LONGHORN ARMY AMMUNITION PLANT KARNACK, TEXAS

ADMINISTRATIVE RECORD

Volume 34

2018

Bate Stamp Numbers
00887900 – 00889355

Prepared for

Department of the Army
Longhorn Army Ammunition Plant

1976 – 2018

LONGHORN ARMY AMMUNITION PLANT
KARNACK, TEXAS
ADMINISTRATIVE RECORD – CHRONOLOGICAL INDEX

VOLUME 34

2018

A. Title: Report (cont'd) – Draft Final, Third Annual Remedial Action Operation Report, LHAAP-50, Former Sump Water Tank (LAB DATA)
Author(s): Department of the Army
Recipient: Environmental Protection Agency
Date: August 14, 2018
Bate Stamp: 00887900 – 00889355

Microbac

Lab Report #: L16050571
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050571-05	**PrePrep Method:**	N/A	**Instrument:**	BURET
Client ID:	50WW06-051016	**Prep Method:**	SM4500-S-(-2)-F-2000	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	SM4500-S-(-2)-F-2000	**Cal Date:**	
Workgroup #:	WG568300	**Analyst:**	TB	**Run Date:**	05/11/2016 10:15
Collect Date:	05/10/2016 10:10	**Dilution:**	1	**File ID:**	ET.1605111015-18
Sample Tag:		**Units:**	mg/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Sulfide	18496-25-8	1.00	U	2.00	1.00	0.500

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050571
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050571-07	**PrePrep Method:**	N/A	**Instrument:**	BURET
Client ID:	50WW12-051016	**Prep Method:**	SM4500-S-(-2)-F-2000	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	SM4500-S-(-2)-F-2000	**Cal Date:**	
Workgroup #:	WG568300	**Analyst:**	TB	**Run Date:**	05/11/2016 10:15
Collect Date:	05/10/2016 11:20	**Dilution:**	1	**File ID:**	ET.1605111015-19
Sample Tag:		**Units:**	mg/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Sulfide	18496-25-8	1.00	U	2.00	1.00	0.500

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050571
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050571-09	**PrePrep Method:**	N/A	**Instrument:**	BURET
Client ID:	50WW24-051016	**Prep Method:**	SM4500-S-(-2)-F-2000	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	SM4500-S-(-2)-F-2000	**Cal Date:**	
Workgroup #:	WG568300	**Analyst:**	TB	**Run Date:**	05/11/2016 10:15
Collect Date:	05/10/2016 13:20	**Dilution:**	1	**File ID:**	ET.1605111015-20
Sample Tag:		**Units:**	mg/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Sulfide	18496-25-8	1.00	U	2.00	1.00	0.500

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050571
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050571-11	**PrePrep Method:**	N/A	**Instrument:**	BURET
Client ID:	50WW23-051016	**Prep Method:**	SM4500-S-(-2)-F-2000	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	SM4500-S-(-2)-F-2000	**Cal Date:**	
Workgroup #:	WG568300	**Analyst:**	TB	**Run Date:**	05/11/2016 10:15
Collect Date:	05/10/2016 14:35	**Dilution:**	1	**File ID:**	ET.1605111015-21
Sample Tag:		**Units:**	mg/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Sulfide	18496-25-8	1.00	U	2.00	1.00	0.500

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050571
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

2.4.4.2 QC Summary Data

Example Total Sulfide(Liquid) Calculations

[mL Iodine * N Iodide) - (mL titrant * N titrant)] * 16000/(volume * dilution) = mg/L Sulfide

where:

mL Iodine = mL of Iodine used
N Iodine = normality of Iodine
mL titrant = mL of titrant used
N titrant = normality of titrant
16000 = factor: 1mL of 0.025 N iodine reacts with 0.4mg sulfide
volume = mL filtered of mL titrated(if not filtered)
dilution = dilution in decimal form (1/5 = 0.2)

Example Total Sulfide(Soil) Calculations

[(mL Iodine * N Iodine) - (mL titrant * N titrant)] * 16.03/weight = mg/kg sulfide

where:

mL Iodine = mL of Iodine used
N Iodine = normality of Iodine
mL titrant = normality of titrant
16.03 = 32.06 grams per 2 equivalents
weight = kg of sample used

Microbac Laboratories Inc.

Data Checklist

Date: 11-MAY-2016
Analyst: TB
Analyst: NA
Method: S
Instrument: BURET
Curve Workgroup: NA
Runlog ID:
Analytical Workgroups: WG568300

Calibration/Linearity	05/11/2016
Second Source Check	X
ICV/CCV (std)	X
ICB/CCB	X
Blank	X
LCS/LCS Dup	X
MS/MSD	X
Duplicate	X
Upload Results	X
Client Forms	X
QC Violation Sheet	X
Case Narratives	X
Signed Raw Data	X
STD/LCS on benchsheet	X
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Primary Reviewer	TB
Secondary Reviewer	SAV
Comments	

Primary Reviewer:
12-MAY-2016
Todd Boyle

Secondary Reviewer:
13-MAY-2016
Sarah Vandenberg

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-13-2016 14:28:23

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: SM4500-S-(-2)-F- AAB#: WG568300

Login Number: L16050571

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
50WW22-051016	01	05/10/16					05/11/2016	1.1	7		05/11/16	1.1	7	
50WW11-051016	03	05/10/16					05/11/2016	1.1	7		05/11/16	1.1	7	
50WW06-051016	05	05/10/16					05/11/2016	1	7		05/11/16	1	7	
50WW12-051016	07	05/10/16					05/11/2016	1	7		05/11/16	1	7	
50WW24-051016	09	05/10/16					05/11/2016	.9	7		05/11/16	.9	7	
50WW23-051016	11	05/10/16					05/11/2016	.8	7		05/11/16	.8	7	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4762257
Report generated 05/13/2016 15:02

METHOD BLANK SUMMARY

Login Number: L16050571
Blank File ID: ET.1605111015-01
Prep Date: 05/11/16 10:15
Analyzed Date: 05/11/16 10:15
Analyst: TB

Work Group: WG568300
Blank Sample ID: WG568300-05
Instrument ID: BURET
Method: SM4500-S-(-2)-F-

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG568300-06	ET.1605111015-02	05/11/16 10:15	
LCS2	WG568300-07	ET.1605111015-03	05/11/16 10:15	
50WW22-051016	L16050571-01	ET.1605111015-16	05/11/16 10:15	
50WW11-051016	L16050571-03	ET.1605111015-17	05/11/16 10:15	
50WW06-051016	L16050571-05	ET.1605111015-18	05/11/16 10:15	
50WW12-051016	L16050571-07	ET.1605111015-19	05/11/16 10:15	
50WW24-051016	L16050571-09	ET.1605111015-20	05/11/16 10:15	
50WW23-051016	L16050571-11	ET.1605111015-21	05/11/16 10:15	

Report Name: BLANK_SUMMARY
PDF File ID: 4762258
Report generated 05/13/2016 15:02

Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L16050571 Prep Date: 05/11/16 10:15 Sample ID: WG568300-05
Instrument ID: BURET Run Date: 05/11/16 10:15 Prep Method: SM4500-S-(-2)-F
File ID: ET.1605111015-01 Analyst: TB Method: SM4500-S-(-2)-F
Workgroup (AAB#): WG568300 Matrix: Water Units: mg/L
Contract #: Cal ID: BURET-

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Sulfide	0.500	2.00	0.500	1	U

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4762259
13-MAY-2016 15:02

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050571 Analyst: TB Prep Method: SM4500-S-(-2)-F
Instrument ID: BURET Matrix: Water Method: SM4500-S-(-2)-F
Workgroup (AAB#): WG568300 Units: mg/L
QC Key: DOD4 Lot #: STD76101

Sample ID: WG568300-06 LCS File ID: ET.1605111015-02 Run Date: 05/11/2016 10:15
Sample ID: WG568300-07 LCS2 File ID: ET.1605111015-03 Run Date: 05/11/2016 10:15

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Sulfide	17.8	17.6	99.1	17.8	17.6	99.1	0.00	85 - 115	10	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 4762260
Report generated: 05/13/2016 15:02

2.4.4.3 Raw Data

SULFIDE
(sulfide1)

WORKGROUP: WG568300

Water:
EPA 376.1 / SM4500-S(-2)-F
SOP K3761 Revision #: 16

Soil:
SM846 9030B/9034
SOP K9030 Revision #: _____

Instrument: Buret

LCS: STL 76101

Iodine standardization (0.025N) COA: 18745
mL 0.025N titrant: 10.0
Volume I: 10.0 mL
Normality I: 0.025

(0.1 N I) COA: 18575
mL 0.025 N titrant: 8.0
Volume I: 2.0 mL
Normality I: 0.10

Stock standardization (in duplicate) 5.0 mL stock
mL I 1) 10.0 2) 10.0
N I 1) 0.10 2) 0.10
mL 0.025 titrant 1) 25.2 2) 25.2
LCS daily dilution: 3(1184)/200 = 17.76 mg/L

1184 = stock conc (mg/L)

Titrant: T- 1775-02-02

SAMPLE	Volume Filtered mL	mL Iodine	N Iodine	0.025 N Sodium Thiosulfate (mL)
BLANK	200	15.0	0.025	15.0
LCS (mL)	200	15.0	0.025	6.2
LCSDUP (mL)	200	15.0	0.025	6.2
05-434-02	550	15.0	0.025	15.0
Ref -04	490	15.0	0.025	15.0
MS -06	520	15.0	0.025	6.3
MSD -08	500	15.0	0.025	6.3
05-507-02	500	15.0	0.025	14.9
-03	530	15.0	0.025	15.0
-04	530	15.0	0.025	15.0
-05	520	15.0	0.025	15.0
-06	520	15.0	0.025	15.0
-08	530	15.0	0.025	15.0
-10	520	15.0	0.025	15.0
-12	550	15.0	0.025	15.0
571-01	490	15.0	0.025	14.7
03	510	15.0	0.025	15.0
05	520	15.0	0.025	15.0
07	520	15.0	0.025	14.9
09	470	15.0	0.025	14.8
11	510	15.0	0.025	14.7

Analyst: Tom Boyle Date/Time: 1015 5/11/16

DCN#118400

Microbac Laboratories Inc.
TITRAMETRIC REPORT

Workgroup (AAB#):WG568300
Product:EPA 376.1\9034
Analyte:Sulfide

Analyst:TB
Run Date:05/11/2016 10:15

SAMPLE NUMBER	Volume	Vol I	Nor I	Vol T	Nor T	Dil	Analytical	Reported	Units
WG568300-05	200.0	15	.025	15	.025	1	0	0	mg/L
WG568300-06	200.0	15	.025	6.2	.025	1	17.6	17.60	mg/L
WG568300-07	200.0	15	.025	6.2	.025	1	17.6	17.60	mg/L
L16050434-02	550.0	15	.025	15	.025	1	0	ND	mg/L
L16050434-04	490.0	15	.025	15	.025	1	0	ND	mg/L
WG568300-08	490.0	15	.025	15	.025	1	0	0	mg/L
L16050434-06	520.0	15	.025	6.3	.025	1	6.69	6.692	mg/L
WG568300-09	520.0	15	.025	6.3	.025	1	6.69	6.692	mg/L
L16050434-08	500.0	15	.025	6.3	.025	1	6.96	6.960	mg/L
WG568300-10	500.0	15	.025	6.3	.025	1	6.96	6.960	mg/L
L16050507-02	500.0	15	.025	14.9	.025	1	0.0800	ND	mg/L
L16050507-03	530.0	15	.025	15	.025	1	0	ND	mg/L
L16050507-04	530.0	15	.025	15	.025	1	0	ND	mg/L
L16050507-05	520.0	15	.025	15	.025	1	0	ND	mg/L
L16050507-06	520.0	15	.025	15	.025	1	0	ND	mg/L
L16050507-08	530.0	15	.025	15	.025	1	0	ND	mg/L
L16050507-10	520.0	15	.025	15	.025	1	0	ND	mg/L
L16050507-12	550.0	15	.025	15	.025	1	0	ND	mg/L
L16050571-01	490.0	15	.025	14.7	.025	1	0.245	ND	mg/L
L16050571-03	510.0	15	.025	15	.025	1	0	ND	mg/L
L16050571-05	520.0	15	.025	15	.025	1	0	ND	mg/L
L16050571-07	520.0	15	.025	14.9	.025	1	0.0769	ND	mg/L
L16050571-09	470.0	15	.025	14.8	.025	1	0.170	ND	mg/L
L16050571-11	510.0	15	.025	14.7	.025	1	0.235	ND	mg/L

SULFIDE_REPORT - Modified 03/06/2008

Report generated 05/12/2016 15:37

[redacted]

2.4.5 Total Organic Carbon Data

2.4.5.1 Summary Data

Microbac

Lab Report #: L16050571
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #: L16050571-01 **PrePrep Method:** N/A **Instrument:** TOC-VWP
Client ID: 50WW22-051016 **Prep Method:** 415.1 **Prep Date:** N/A
Matrix: Water **Analytical Method:** 415.1 **Cal Date:** 10/30/2015 17:00
Workgroup #: WG568487 **Analyst:** EPT **Run Date:** 05/12/2016 12:09
Collect Date: 05/10/2016 07:50 **Dilution:** 10 **File ID:** TC05122016.009
Sample Tag: DL01 **Units:** mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Total Organic Carbon	TOC	65.9		20.0	10.0	5.00

Certificate of Analysis

Sample #: L16050571-03 **PrePrep Method:** N/A **Instrument:** TOC-VWP
Client ID: 50WW11-051016 **Prep Method:** 415.1 **Prep Date:** N/A
Matrix: Water **Analytical Method:** 415.1 **Cal Date:** 10/30/2015 17:00
Workgroup #: WG568487 **Analyst:** EPT **Run Date:** 05/12/2016 13:20
Collect Date: 05/10/2016 09:00 **Dilution:** 10 **File ID:** TC05122016.010
Sample Tag: DL01 **Units:** mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Total Organic Carbon	TOC	34.6		20.0	10.0	5.00

Certificate of Analysis

Sample #: L16050571-05 **PrePrep Method:** N/A **Instrument:** TOC-VWP
Client ID: 50WW06-051016 **Prep Method:** 415.1 **Prep Date:** N/A
Matrix: Water **Analytical Method:** 415.1 **Cal Date:** 10/30/2015 17:00
Workgroup #: WG568487 **Analyst:** EPT **Run Date:** 05/12/2016 13:42
Collect Date: 05/10/2016 10:10 **Dilution:** 10 **File ID:** TC05122016.011
Sample Tag: DL01 **Units:** mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Total Organic Carbon	TOC	32.1		20.0	10.0	5.00

Certificate of Analysis

Microbac

Lab Report #: L16050571
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Sample #: L16050571-07 **PrePrep Method:** N/A **Instrument:** TOC-VWP
Client ID: 50WW12-051016 **Prep Method:** 415.1 **Prep Date:** N/A
Matrix: Water **Analytical Method:** 415.1 **Cal Date:** 10/30/2015 17:00
Workgroup #: WG568487 **Analyst:** EPT **Run Date:** 05/12/2016 14:20
Collect Date: 05/10/2016 11:20 **Dilution:** 5 **File ID:** TC05122016.012
Sample Tag: DL01 **Units:** mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Total Organic Carbon	TOC	28.5		10.0	5.00	2.50

Certificate of Analysis

Sample #: L16050571-09 **PrePrep Method:** N/A **Instrument:** TOC-VWP
Client ID: 50WW24-051016 **Prep Method:** 415.1 **Prep Date:** N/A
Matrix: Water **Analytical Method:** 415.1 **Cal Date:** 10/30/2015 17:00
Workgroup #: WG568487 **Analyst:** EPT **Run Date:** 05/12/2016 14:55
Collect Date: 05/10/2016 13:20 **Dilution:** 10 **File ID:** TC05122016.013
Sample Tag: DL01 **Units:** mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Total Organic Carbon	TOC	84.1		20.0	10.0	5.00

Certificate of Analysis

Sample #: L16050571-11 **PrePrep Method:** N/A **Instrument:** TOC-VWP
Client ID: 50WW23-051016 **Prep Method:** 415.1 **Prep Date:** N/A
Matrix: Water **Analytical Method:** 415.1 **Cal Date:** 10/30/2015 17:00
Workgroup #: WG568487 **Analyst:** EPT **Run Date:** 05/12/2016 15:38
Collect Date: 05/10/2016 14:35 **Dilution:** 10 **File ID:** TC05122016.016
Sample Tag: DL01 **Units:** mg/L

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Total Organic Carbon	TOC	68.3		20.0	10.0	5.00

2.4.5.2 QC Summary Data

Total Organic Carbon Example Calculations
(Direct Readout Parameter)

(Readout)/(dilution) = mg/L

where:

Readout = direct readout from the instrument
dilution = dilution in decimal form (ex. 1/5 dilution = 0.2)

Microbac Laboratories Inc.

Data Checklist

Date: 12-MAY-2016
Analyst: EPT
Analyst: NA
Method: TOC
Instrument: TOC-VWP
Curve Workgroup: NA
Runlog ID:
Analytical Workgroups: WG568487

Calibration/Linearity	10/31/15
Second Source Check	
ICV/CCV (std)	X
ICB/CCB	X
Blank	X
LCS/LCS Dup	X
MS/MSD	X
Duplicate	X
Upload Results	X
Client Forms	
QC Violation Sheet	
Case Narratives	
Signed Raw Data	X
STD/LCS on benchsheet	X
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	
Primary Reviewer	EPT
Secondary Reviewer	DIH
Comments	

Primary Reviewer:
13-MAY-2016

Secondary Reviewer:
13-MAY-2016

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-13-2016 12:53:01

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 415.1 **AAB#:** WG568487

Login Number: L16050571

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
50WW22-051016	01	05/10/16					05/12/2016	2.2	28		05/12/16	2.2	28	
50WW11-051016	03	05/10/16					05/12/2016	2.2	28		05/12/16	2.2	28	
50WW06-051016	05	05/10/16					05/12/2016	2.1	28		05/12/16	2.1	28	
50WW12-051016	07	05/10/16					05/12/2016	2.1	28		05/12/16	2.1	28	
50WW24-051016	09	05/10/16					05/12/2016	2.1	28		05/12/16	2.1	28	
50WW23-051016	11	05/10/16					05/12/2016	2	28		05/12/16	2	28	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4761452
Report generated 05/13/2016 12:36

METHOD BLANK SUMMARY

Login Number: L16050571
Work Group: WG568487
Blank File ID: TC05122016.004
Blank Sample ID: WG568487-01
Prep Date: 05/12/16 10:24
Instrument ID: TOC-VWP
Analyzed Date: 05/12/16 10:24
Method: 415.1
Analyst: EPT

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG568487-02	TC05122016.005	05/12/16 10:35	01
LCS2	WG568487-03	TC05122016.006	05/12/16 10:48	01
50WW22-051016	L16050571-01	TC05122016.009	05/12/16 12:09	DL01
50WW11-051016	L16050571-03	TC05122016.010	05/12/16 13:20	DL01
50WW06-051016	L16050571-05	TC05122016.011	05/12/16 13:42	DL01
50WW12-051016	L16050571-07	TC05122016.012	05/12/16 14:20	DL01
50WW24-051016	L16050571-09	TC05122016.013	05/12/16 14:55	DL01
50WW23-051016	L16050571-11	TC05122016.016	05/12/16 15:38	DL01
DUP	WG568487-05	TC05122016.030	05/13/16 10:22	01

Report Name: BLANK_SUMMARY
PDF File ID: 4761453
Report generated 05/13/2016 12:36

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L16050571 Prep Date: 05/12/16 10:24 Sample ID: WG568487-01
Instrument ID: TOC-VWP Run Date: 05/12/16 10:24 Prep Method: 415.1
File ID: TC05122016.004 Analyst: EPT Method: 415.1
Workgroup (AAB#): WG568487 Matrix: Water Units: mg/L
Contract #: Cal ID: TOC-VW-30-OCT-15

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Total Organic Carbon	0.500	2.00	0.500	1	U

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4761454
13-MAY-2016 12:36

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050571 Analyst: EPT Prep Method: 415.1
Instrument ID: TOC-VWP Matrix: Water Method: 415.1
Workgroup (AAB#): WG568487 Units: mg/L
QC Key: DOD4 Lot #: STD74954

Sample ID: WG568487-02 LCS File ID: TC05122016.005 Run Date: 05/12/2016 10:35
Sample ID: WG568487-03 LCS2 File ID: TC05122016.006 Run Date: 05/12/2016 10:48

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Total Organic Carbon	25.0	27.4	110	25.0	28.1	112	2.34	85 - 115	15	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 4761455
Report generated: 05/13/2016 12:36

2.4.5.3 Raw Data

Curve

wg545145

Total Organic Carbon

MAKE DAILY

CCV (TOC): _____ (5/200)(1000) = 25mg/L

LCS (TOC): _____ (5/200)(1000) = 25mg/L

CCV (TIC): _____ (5/200)(1000) = 25mg/L See Below

MS (TOC): _____

Calibration Curve Date: _____

Reagent: RGT 34567, RGT 34459

☑ SM5310-C : Matrix 2 WG_____

☐ EPA 415.1/9060A(mod): Matrix 1 WG_____ SOP: K 4151 Rev. 18

WG_____ Instrument: Shimadza TOC-VWP/ASI

DAILY CHECK

☑ drain reservoir filled
☑ ASI water bottle full
☑ dilution water bottle full

☑ 3rd bottle full
☑ sufficient gas
☐ sufficient persulfate

☑ sufficient acid
☑ waste container

Position	Sample ID	Dilution
1	TC Curve	
2	TIC Curve	
3	TC ICV	
4	TIC ICV	
5		
6		
7		
8		
9		
10		
11		
12		
13	All points	
14	analyzed	
15	in duplicate	
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		

Position	Sample ID	Dilution
26	TC Curve	
27	Std 72153	
28		
29	TIC Curve	
30	Std 72165	
31		
32		
33	TOC (TC)	
34	ICV	
35	Std 72270	
36		
37	TIC ICV	
38	Std 72654	
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		

Position	Sample ID	Dilution
51		
52		
53		
54		
55		
56		
57		
58		
59		
60		
61		
62		
63		
64		
65		
66		
67		
68		
69		
70		
71		
72		
73		
74		
75		

See SOP for part preparation

5/200 (1000) = 25

Analyst: David Merkle Date/Time: 10/31/15

DCN#114406

Instr.Information

System TOCVW ASI
Detector Wet Chemical

Cal. Curve

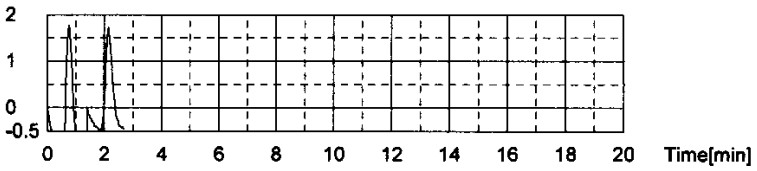
Sample Name: TCCURVE
Sample ID:
Cal. Curve: TCCURVE-10-30-2015.2015_10_30_16_06_37.cal
Status Completed

Type	Anal.
Standard	TC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.764	500uL	1	*******		10/30/2015 4:10:07 PM
2	3.607	500uL	1	*******		10/30/2015 4:13:33 PM

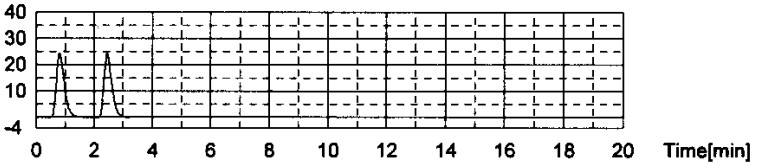
Acid Add. 0.000%
Mean Area 4.186



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	46.19	500uL	1	*******		10/30/2015 4:19:03 PM
2	46.28	500uL	1	*******		10/30/2015 4:22:56 PM

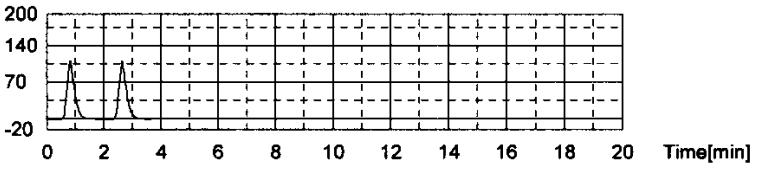
Acid Add. 0.000%
Mean Area 46.23



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	194.3	500uL	1	*******		10/30/2015 4:28:42 PM
2	193.1	500uL	1	*******		10/30/2015 4:32:47 PM

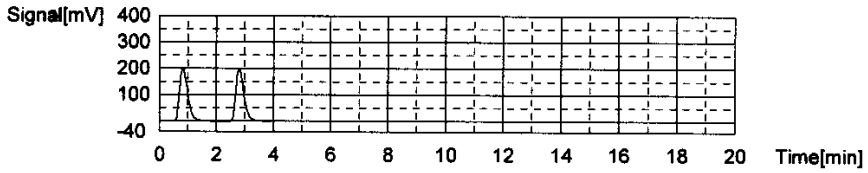
Acid Add. 0.000%
Mean Area 193.7



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	390.8	500uL	1	********		10/30/2015 4:38:42 PM
2	391.3	500uL	1	********		10/30/2015 4:42:54 PM

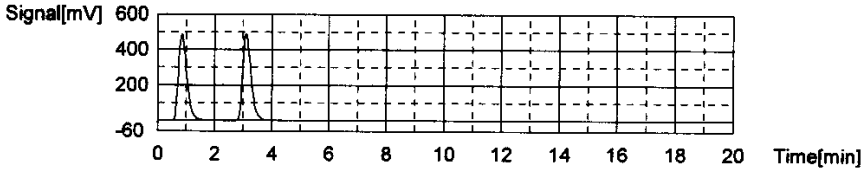
Acid Add. 0.000%
Mean Area 391.1



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	989.0	500uL	1	********		10/30/2015 4:49:06 PM
2	994.6	500uL	1	********		10/30/2015 4:53:33 PM

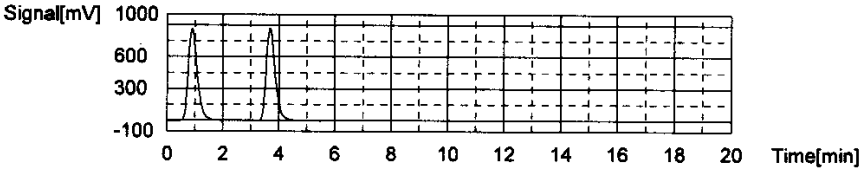
Acid Add. 0.000%
Mean Area 991.8



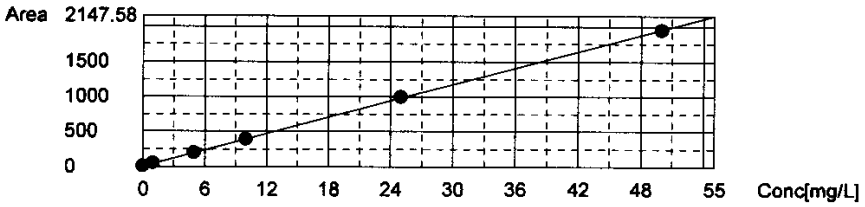
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1946	500uL	1	********		10/30/2015 5:00:24 PM
2	1948	500uL	1	********		10/30/2015 5:05:23 PM

Acid Add. 0.000%
Mean Area 1947



Slope: 38.95
Intercept 4.952
r^2 0.999910
Zero Shift No



Sample

Sample Name: TC ICV
Sample ID:
Origin: TCCURVE-10-30-2015.2015_10_30_16_06_37.cal
Status Completed
Chk. Result

Type	Anal.	Dil.	Result
Unknown	TC	1.000	TC:25.93mg/L

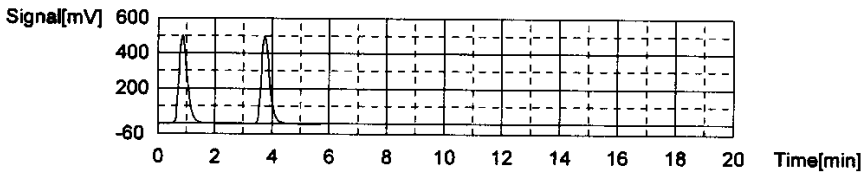
= 103.7%

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1020	26.06mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	10/31/2015 9:56:57 AM
2	1010	25.80mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	10/31/2015 10:02:17 AM

Mean Area 1015
Mean Conc. 25.93mg/L



Cal. Curve

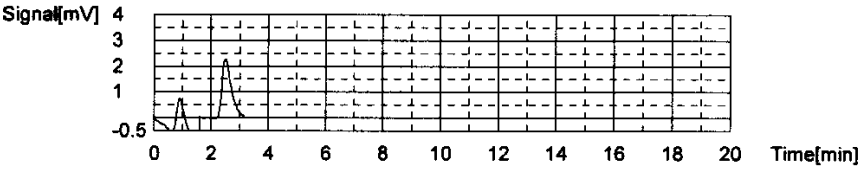
Sample Name: TICCURVE
Sample ID: Untitled
Cal. Curve: TICCURVE-10-30-2015.2015_10_31_11_55_05.cal
Status Completed

Type	Anal.
Standard	IC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2.732	500uL	1	********		10/31/2015 12:00:21 PM
2	5.011	500uL	1	********		10/31/2015 12:04:52 PM

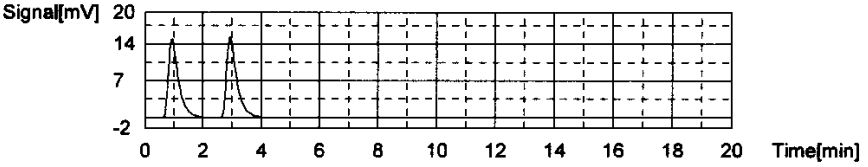
Acid Add. 10.00%
Mean Area 3.872



Conc: 1.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	35.96	500uL	1	********		10/31/2015 12:12:47 PM
2	37.13	500uL	1	********		10/31/2015 12:17:43 PM

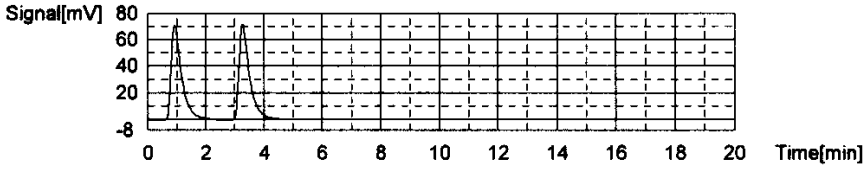
Acid Add. 10.00%
Mean Area 36.55



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	173.6	500uL	1	********		10/31/2015 12:26:14 PM
2	175.6	500uL	1	********		10/31/2015 12:31:38 PM

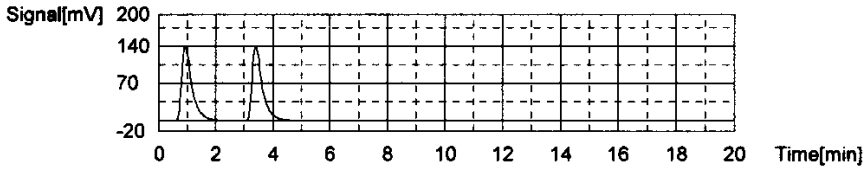
Acid Add. 10.00%
Mean Area 174.6



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	344.8	500uL	1	********		10/31/2015 12:40:18 PM
2	345.1	500uL	1	********		10/31/2015 12:45:49 PM

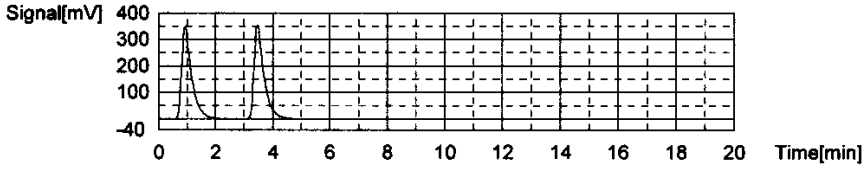
Acid Add. 10.00%
Mean Area 345.0



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	835.5	500uL	1	********		10/31/2015 12:54:43 PM
2	845.9	500uL	1	********		10/31/2015 1:00:42 PM

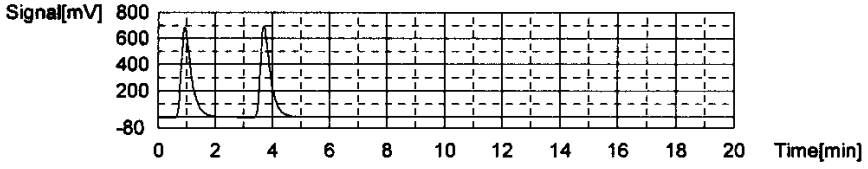
Acid Add. 10.00%
Mean Area 840.7



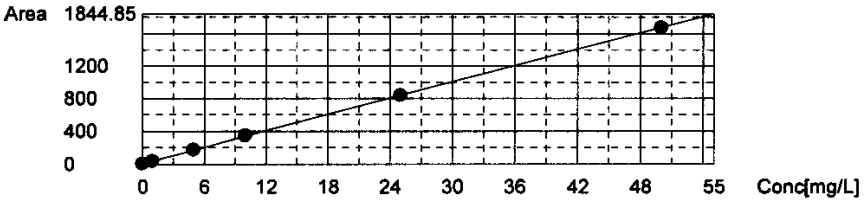
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	1676	500uL	1	********		10/31/2015 1:09:51 PM
2	1677	500uL	1	********		10/31/2015 1:15:54 PM

Acid Add. 10.00%
Mean Area 1677



Slope: 33.42
Intercept 5.927
r^2 0.999982
Zero Shift No



Sample

Sample Name: TIC ICV
Sample ID: Untitled
Origin: TICCURVE-10-30-2015.cal
Status Completed
Chk. Result

Type	Anal.	Dil.	Result
Unknown	IC	1.000	IC:25.37mg/L

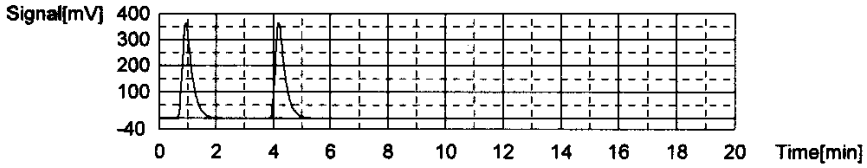
$= 101.5\%$

1. Det

Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	854.5	25.39mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	10/31/2015 1:25:27 PM
2	853.1	25.35mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	10/31/2015 1:31:33 PM

Mean Area 853.8
Mean Conc. 25.37mg/L



WORKGROUP: WG568487

Total Organic Carbon

MAKE DAILY

CCV (TOC): Std 72133
(5/200)(1000) = 25mg/L

CCV (TIC): Std 75410
(5/200)(1000) = 25mg/L

Calibration Curve Date: 10/31/15

LCS (TOC): Std 74954
(5/200)(1000) = 25mg/L

MS (TOC): Std 74954
(.4)(1000)/40 = 10

Reagent: 36583
36105

☒ SM5310-C : Matrix 2 WG 568487
☐ EPA 415.1/9060A(mod): Matrix 1 WG _____
WG _____

SOP: K 4151 Rev. 18
Instrument: Shimadza TOC-VWP/ASI

DAILY CHECK

☒ drain reservoir filled
☒ ASI water bottle full
☒ dilution water bottle full

☒ 3rd bottle full
☒ sufficient gas
☒ sufficient persulfate

☒ sufficient acid waste container

Position	Sample ID	Dilution
1	TIC	
2	TOC/TIC	
3	CCV	
4	BLK	
5	LCS	
6	LCSDUP	
7	05-0514-01	
8	05-0562-01	ept 5/12/16
9	05-0571-01	1/3 10
10	-03	1/3 10
11	-05	1/3 10
12	-07	1/3 5
13	-09	1/3 10
14	CCV	
15	CCB	ept 5/12/16
16	05-0571-11	1/3 10
17	05-0576-01	
18	-02	
19	-03	
20	-04	ept 5/12/16
21	05-0584-01	~~1/5~~
22	05-0587-01	1/50
23	05-0588-01	1/50
24	05-0590-01	1/50
25	05-0598-01	1/3

Position	Sample ID	Dilution
26	CCV	
27	CCB	
28	05-0598-02	1/3
29	05-0613-01	
30	DUP 514-01	
31	MS 514-01	
32	~~ECV~~ 05-0730-01	
33	CCV+CB ept 5/13/16	
34	CCB	
35		
36		
37		
38		
39		
40		
41		
42		
43		
44		
45		
46		
47		
48		
49		
50		

Position	Sample ID	Dilution
51		
52		
53		
54		
55		
56		
57		
58		
59		
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61		
62		
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74		
75		

Analyst: Eden Tidd

Date/Time: 05/12/16 0900

DCN#118428

C:\TOC3201\Data\05-12-2016-EPT-TOC.t32

	Analysis	Sample Name	Result	Status	Date / Time	Vial
1	TOC	TIC	TOC:3.053mg/L TC:24.88mg/L IC:21.83mg/L	Complete	5/12/2016 9:08:00 AM	1
2	TOC	TOC/TIC	TOC:27.93mg/L TC:34.61mg/L IC:6.686mg/L	Complete	5/12/2016 10:06:52 AM	2
3	TOC	CCV	TOC:26.93mg/L TC:26.99mg/L IC:0.05165mg/L	Complete	5/12/2016 10:19:08 AM	3
4	TOC	WG568487-01 BLK	TOC:0.03846mg/L TC:0.1094mg/L IC:0.07091mg/L	Complete	5/12/2016 10:28:04 AM	0
5	TOC	WG568487-02 LCS	TOC:27.42mg/L TC:27.45mg/L IC:0.02714mg/L	Complete	5/12/2016 10:40:14 AM	5
6	TOC	WG568487-03 LCSDUP	TOC:28.07mg/L TC:28.09mg/L IC:0.02170mg/L	Complete	5/12/2016 10:52:23 AM	6
7	TOC	L16050514-01	TOC:8.222mg/L TC:8.436mg/L IC:0.2131mg/L	Complete	5/12/2016 11:12:43 AM	7
8	TOC	L16050552-01	TOC:35.62mg/L TC:49.20mg/L IC:13.57mg/L	Complete	5/12/2016 11:37:23 AM	8
9	TOC	L16050571-01 (10)	TOC:6.593mg/L TC:29.90mg/L IC:23.31mg/L	Complete	5/12/2016 12:24:18 PM	9
10	TOC	L16050571-03 (10)	TOC:3.461mg/L TC:22.57mg/L IC:19.11mg/L	Complete	5/12/2016 1:34:34 PM	10
11	TOC	L16050571-05 (10)	TOC:3.207mg/L TC:25.47mg/L IC:22.26mg/L	Complete	5/12/2016 1:56:59 PM	11
12	TOC	L16050571-07 (5)	TOC:5.692mg/L TC:40.77mg/L IC:35.08mg/L	Complete	5/12/2016 2:35:51 PM	12
13	TOC	L16050571-09 (10)	TOC:8.409mg/L TC:32.45mg/L IC:24.05mg/L	Complete	5/12/2016 3:09:54 PM	13
14	TOC	CCV	TOC:26.97mg/L TC:27.14mg/L IC:0.1676mg/L	Complete	5/12/2016 3:22:02 PM	14
15	TOC	CCB	TOC:0.01650mg/L TC:0.09782mg/L IC:0.08133mg/L	Complete	5/12/2016 3:30:55 PM	0
16	TOC	L16050571-11 (10)	TOC:6.832mg/L TC:25.02mg/L IC:18.18mg/L	Complete	5/12/2016 3:52:29 PM	16
17	TOC	L16050576-01	TOC:7.870mg/L TC:44.25mg/L IC:36.38mg/L	Complete	5/12/2016 4:15:44 PM	17
18	TOC	L16050576-02	TOC:7.644mg/L TC:40.00mg/L IC:32.36mg/L	Complete	5/12/2016 4:38:31 PM	18
19	TOC	L16050576-03	TOC:5.308mg/L TC:28.22mg/L IC:22.91mg/L	Complete	5/12/2016 5:00:15 PM	19
20	TOC	L16050576-04	TOC:4.538mg/L TC:22.53mg/L IC:17.99mg/L	Complete	5/12/2016 5:25:51 PM	20
21	TOC	L16050586-01	TOC:15.48mg/L TC:19.90mg/L IC:4.418mg/L	Complete	5/12/2016 5:49:44 PM	21
22	TOC	L16050587-01 (50)	TOC:25.53mg/L TC:25.86mg/L IC:0.3237mg/L	Complete	5/12/2016 6:11:49 PM	22
23	TOC	L16050588-01 (50)	TOC:24.10mg/L TC:24.39mg/L IC:0.2903mg/L	Complete	5/13/2016 8:27:01 AM	23
24	TOC	L16050590-01 (50)	TOC:26.52mg/L TC:26.88mg/L IC:0.3654mg/L	Complete	5/13/2016 8:49:15 AM	24
25	TOC	L16050598-01 (3)	TOC:4.432mg/L TC:23.92mg/L IC:19.49mg/L	Complete	5/13/2016 9:11:17 AM	25
26	TOC	CCV	TOC:26.52mg/L TC:26.70mg/L IC:0.1814mg/L	Complete	5/13/2016 9:23:29 AM	26
27	TOC	CCB	TOC:0.03017mg/L TC:0.1208mg/L IC:0.09063mg/L	Complete	5/13/2016 9:32:27 AM	0
28	TOC	L16050598-02 (3)	TOC:4.137mg/L TC:20.65mg/L IC:16.51mg/L	Complete	5/13/2016 9:54:25 AM	28
29	TOC	L16050613-01	TOC:3.722mg/L TC:4.310mg/L IC:0.5874mg/L	Complete	5/13/2016 10:14:51 AM	29
30	TOC	WG568487-05 DUP	TOC:7.590mg/L TC:7.694mg/L IC:0.1037mg/L	Complete	5/13/2016 10:35:06 AM	30
31	TOC	WG568487-06 MS	TOC:18.48mg/L TC:18.59mg/L IC:0.1039mg/L	Complete	5/13/2016 10:55:36 AM	31
32	TOC	L16050730-01	TOC:0.1347mg/L TC:0.2903mg/L IC:0.1557mg/L	Complete	5/13/2016 11:16:24 AM	32
33	TOC	CCV	TOC:26.06mg/L TC:26.16mg/L IC:0.1066mg/L	Complete	5/13/2016 11:30:08 AM	33
34	TOC	CCB	TOC:0.01342mg/L TC:0.09759mg/L IC:0.08417mg/L	Complete	5/13/2016 11:39:03 AM	0

5/13/2016 11:41:20 AM

1/1

Instr.Information

System TOCVW ASI
Detector Wet Chemical

Sample

Sample Name: TIC
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

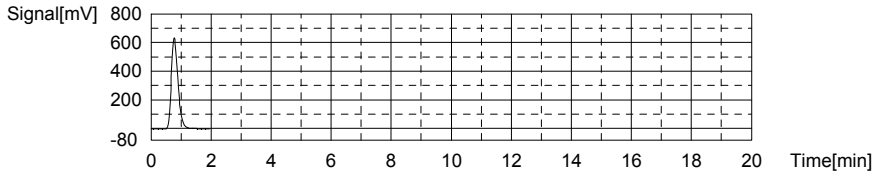
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:3.053mg/L TC:24.88mg/L IC:21.83mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	974.1	24.88mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 9:02:43 AM

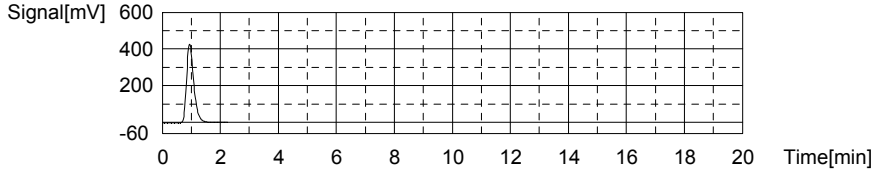
Mean Area 974.1
Mean Conc. 24.88mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	735.6	21.83mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 9:08:00 AM

Mean Area 735.6
Mean Conc. 21.83mg/L



Sample

Sample Name: TOC/TIC
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

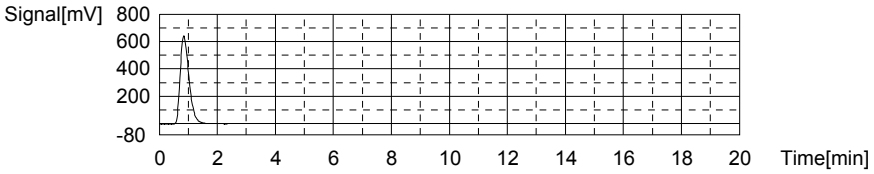
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:27.93mg/L TC:34.61mg/L IC:6.686mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1353	34.61mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 10:02:06 AM

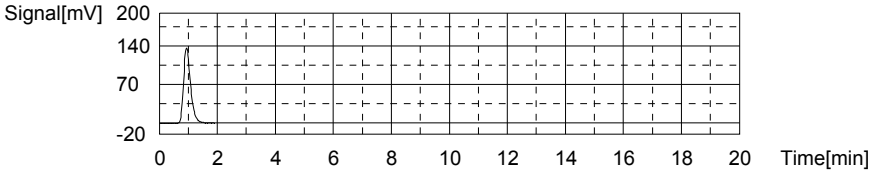
Mean Area 1353
Mean Conc. 34.61mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	229.4	6.686mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 10:06:52 AM

Mean Area 229.4
Mean Conc. 6.686mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

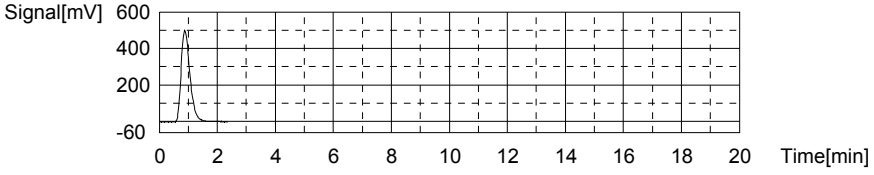
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:26.93mg/L TC:26.99mg/L IC:0.05165mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1056	26.99mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 10:14:40 AM

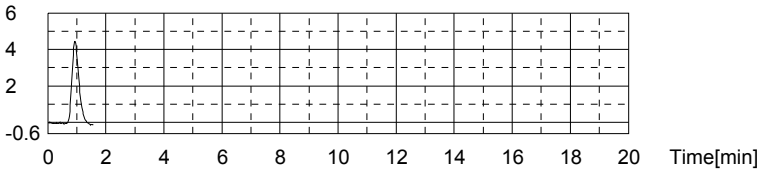
Mean Area 1056
Mean Conc. 26.99mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.653	0.05165mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 10:19:08 AM

Mean Area 7.653
Mean Conc. 0.05165mg/L



Sample

Sample Name: WG568487-01 BLK
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

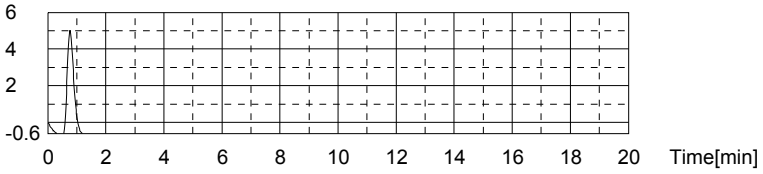
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:0.03846mg/L TC:0.1094mg/L IC:0.07091mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.212	0.1094mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_31	5/12/2016 10:24:07 AM

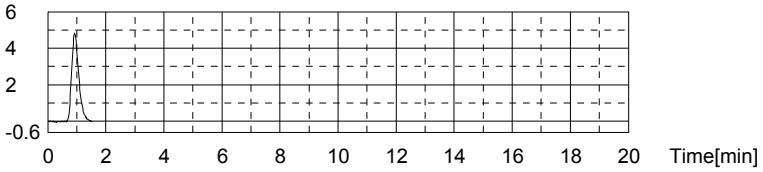
Mean Area 9.212
Mean Conc. 0.1094mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.297	0.07091mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_05	5/12/2016 10:28:04 AM

Mean Area 8.297
Mean Conc. 0.07091mg/L



Sample

Sample Name: WG568487-02 LCS
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

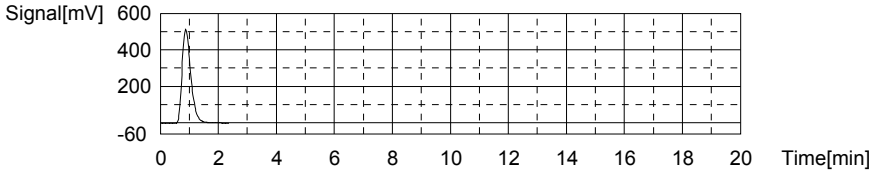
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:27.42mg/L TC:27.45mg/L IC:0.02714mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1074	27.45mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 10:35:51 AM

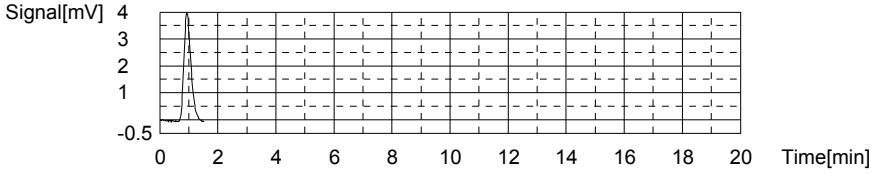
Mean Area 1074
Mean Conc. 27.45mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.834	0.02714mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 10:40:14 AM

Mean Area 6.834
Mean Conc. 0.02714mg/L



Sample

Sample Name: WG568487-03 LCSDUP
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

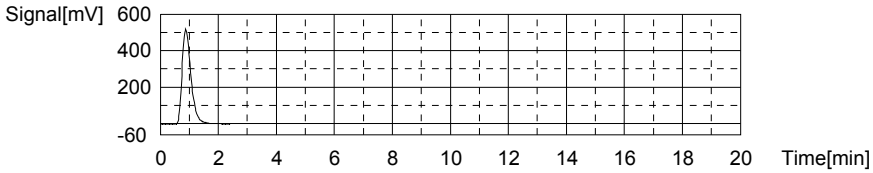
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:28.07mg/L TC:28.09mg/L IC:0.02170mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1099	28.09mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 10:48:05 AM

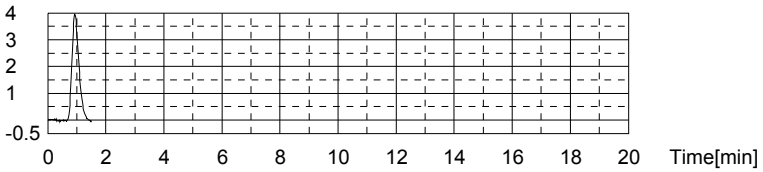
Mean Area 1099
Mean Conc. 28.09mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.652	0.02170mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 10:52:23 AM

Mean Area 6.652
Mean Conc. 0.02170mg/L



Sample

Sample Name: L16050514-01
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

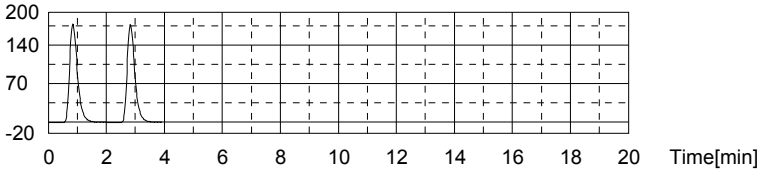
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:8.222mg/L TC:8.436mg/L IC:0.2131mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	336.9	8.523mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_31	5/12/2016 10:59:48 AM
2	330.1	8.348mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_31	5/12/2016 11:04:04 AM

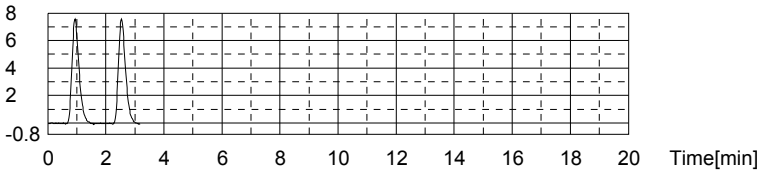
Mean Area 333.5
Mean Conc. 8.436mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.13	0.2155mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_05	5/12/2016 11:08:32 AM
2	12.97	0.2107mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_05	5/12/2016 11:12:43 AM

Mean Area 13.05
Mean Conc. 0.2131mg/L



Sample

Sample Name: L16050552-01
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

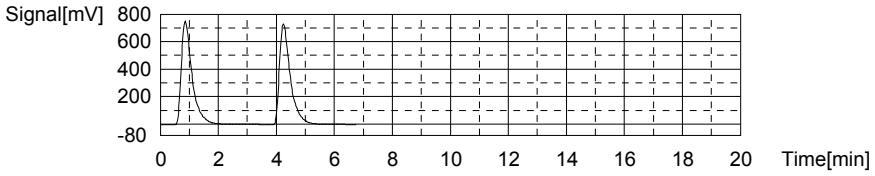
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:35.62mg/L TC:49.20mg/L IC:13.57mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1931	49.45mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 11:21:33 AM
2	1911	48.94mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 11:27:17 AM

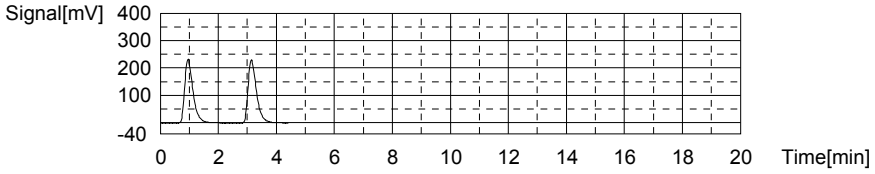
Mean Area 1921
Mean Conc. 49.20mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	458.7	13.55mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 11:32:24 AM
2	460.5	13.60mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 11:37:23 AM

Mean Area 459.6
Mean Conc. 13.57mg/L



Sample

Sample Name: L16050571-01 (10)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

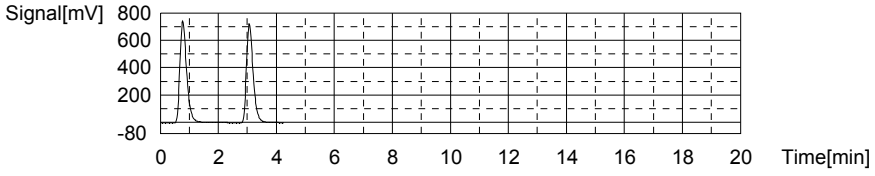
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:6.593mg/L TC:29.90mg/L IC:23.31mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1195	30.55mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 12:09:56 PM
2	1144	29.25mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 12:14:14 PM

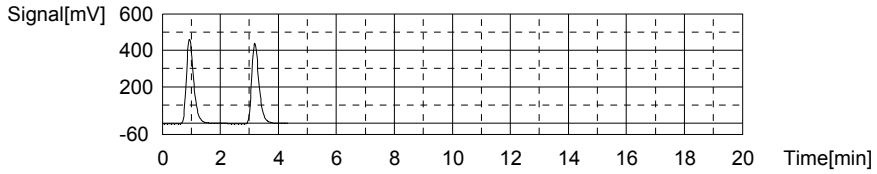
Mean Area 1170
Mean Conc. 29.90mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	804.1	23.88mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 12:19:31 PM
2	765.8	22.73mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 12:24:18 PM

Mean Area 785.0
Mean Conc. 23.31mg/L



Sample

Sample Name: L16050571-03 (10)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

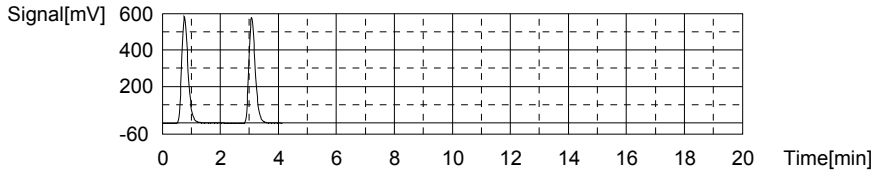
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:3.461mg/L TC:22.57mg/L IC:19.11mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	888.6	22.69mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_35	5/12/2016 1:20:33 PM
2	879.7	22.46mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_35	5/12/2016 1:24:38 PM

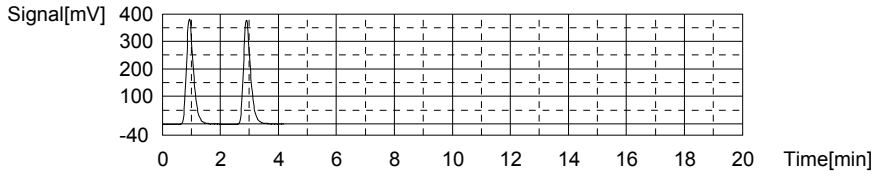
Mean Area 884.2
Mean Conc. 22.57mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	644.6	19.11mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 1:29:36 PM
2	644.9	19.12mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 1:34:34 PM

Mean Area 644.8
Mean Conc. 19.11mg/L



Sample

Sample Name: L16050571-05 (10)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

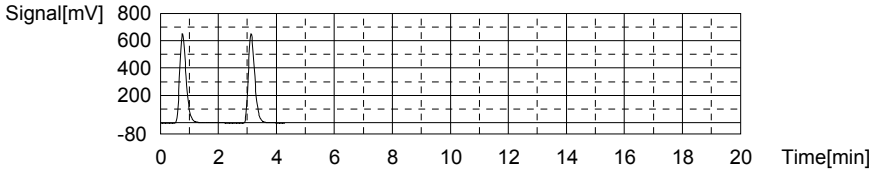
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:3.207mg/L TC:25.47mg/L IC:22.26mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1001	25.57mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 1:42:22 PM
2	992.8	25.36mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 1:46:33 PM

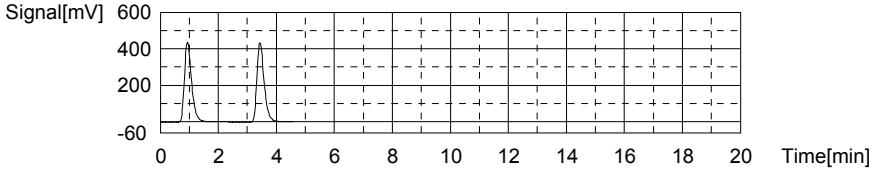
Mean Area 996.9
Mean Conc. 25.47mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	751.5	22.31mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 1:52:06 PM
2	748.5	22.22mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 1:56:59 PM

Mean Area 750.0
Mean Conc. 22.26mg/L



Sample

Sample Name: L16050571-07 (5)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

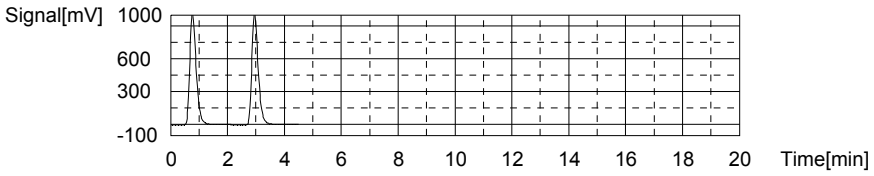
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:5.692mg/L TC:40.77mg/L IC:35.08mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1594	40.80mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 2:20:58 PM
2	1592	40.75mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 2:25:32 PM

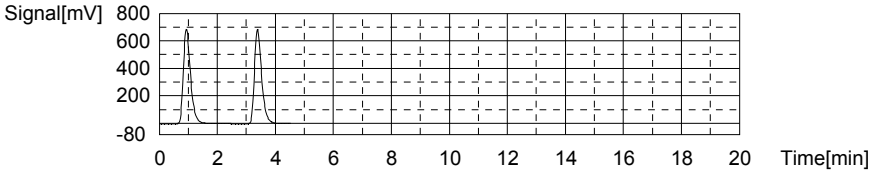
Mean Area 1593
Mean Conc. 40.77mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1181	35.16mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 2:31:01 PM
2	1176	35.01mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 2:35:51 PM

Mean Area 1179
Mean Conc. 35.08mg/L



Sample

Sample Name: L16050571-09 (10)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

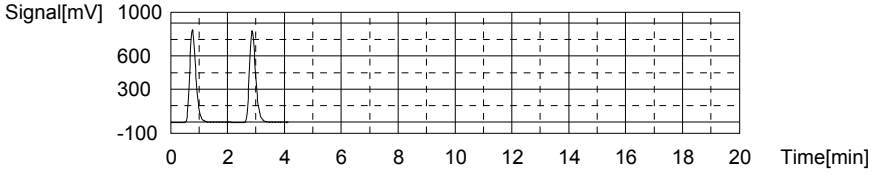
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:8.409mg/L TC:32.45mg/L IC:24.05mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1268	32.43mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 2:55:23 PM
2	1270	32.48mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 2:59:41 PM

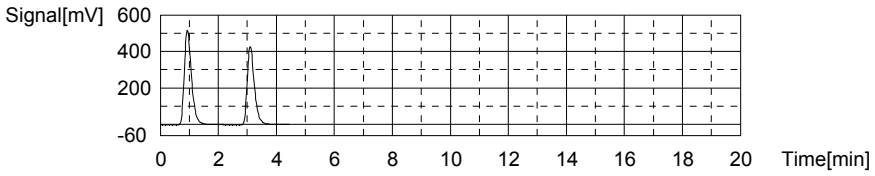
Mean Area 1269
Mean Conc. 32.45mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	885.8	26.32mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 3:04:52 PM
2	733.5	21.77mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 3:09:54 PM

Mean Area 809.7
Mean Conc. 24.05mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

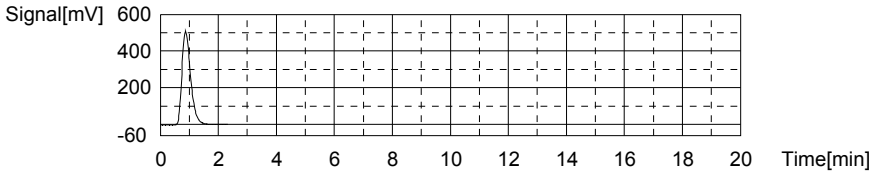
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:26.97mg/L TC:27.14mg/L IC:0.1676mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1062	27.14mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 3:17:40 PM

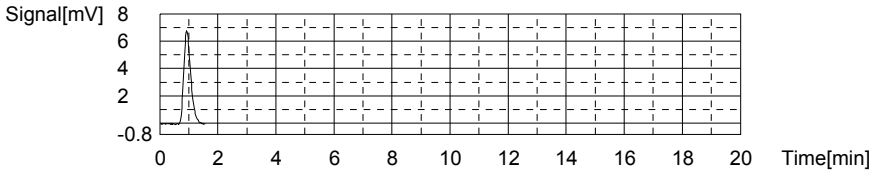
Mean Area 1062
Mean Conc. 27.14mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.53	0.1676mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 3:22:02 PM

Mean Area 11.53
Mean Conc. 0.1676mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

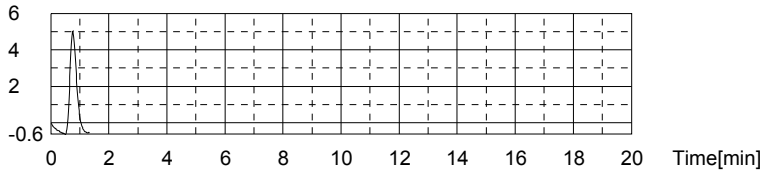
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:0.01650mg/L TC:0.09782mg/L IC:0.08133mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.762	0.09782mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 3:26:59 PM

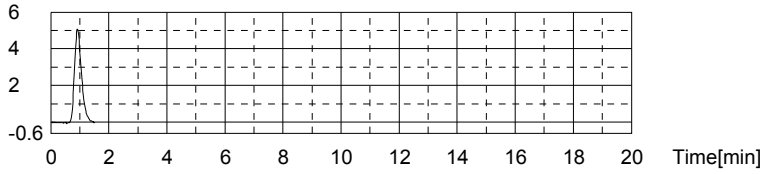
Mean Area 8.762
Mean Conc. 0.09782mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.645	0.08133mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 3:30:55 PM

Mean Area 8.645
Mean Conc. 0.08133mg/L



Sample

Sample Name: L16050571-11 (10)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

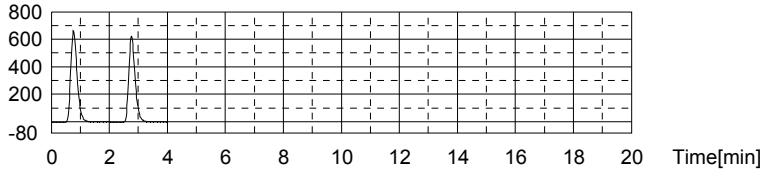
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:6.832mg/L TC:25.02mg/L IC:18.18mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1006	25.70mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 3:38:22 PM
2	952.5	24.33mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 3:42:38 PM

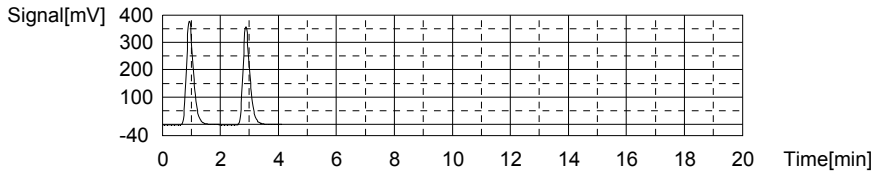
Mean Area 979.3
Mean Conc. 25.02mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	634.7	18.81mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 3:47:32 PM
2	592.7	17.56mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 3:52:29 PM

Mean Area 613.7
Mean Conc. 18.18mg/L



Sample

Sample Name: L16050576-01
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

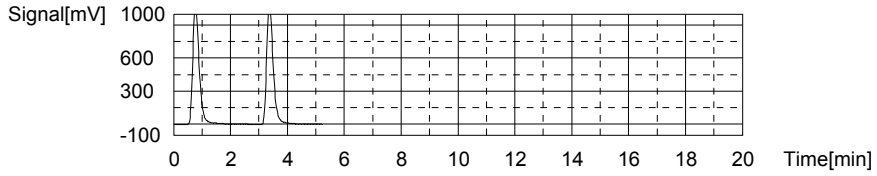
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:7.870mg/L TC:44.25mg/L IC:36.38mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1717	43.96mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_31	5/12/2016 4:00:32 PM
2	1740	44.55mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_31	5/12/2016 4:05:25 PM

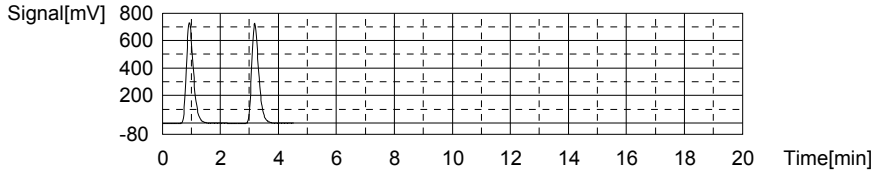
Mean Area 1729
Mean Conc. 44.25mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1227	36.53mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_05	5/12/2016 4:10:38 PM
2	1217	36.23mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_05	5/12/2016 4:15:44 PM

Mean Area 1222
Mean Conc. 36.38mg/L



Sample

Sample Name: L16050576-02
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

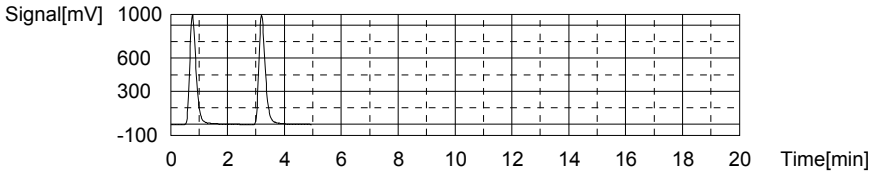
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:7.644mg/L TC:40.00mg/L IC:32.36mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1564	40.03mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 4:23:37 PM
2	1562	39.98mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 4:28:24 PM

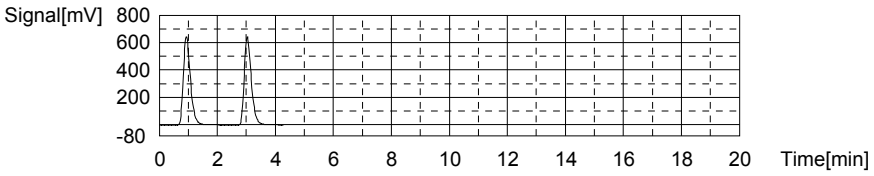
Mean Area 1563
Mean Conc. 40.00mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1088	32.37mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 4:33:33 PM
2	1087	32.34mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 4:38:31 PM

Mean Area 1088
Mean Conc. 32.36mg/L



Sample

Sample Name: L16050576-03
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

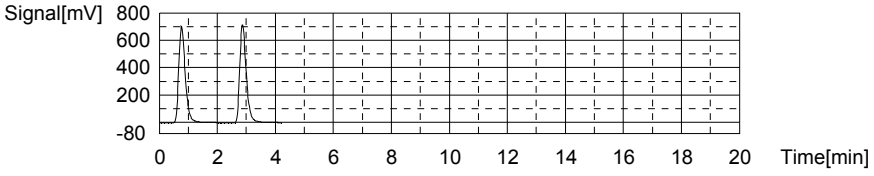
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:5.308mg/L TC:28.22mg/L IC:22.91mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1091	27.88mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 4:46:04 PM
2	1117	28.55mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 4:50:27 PM

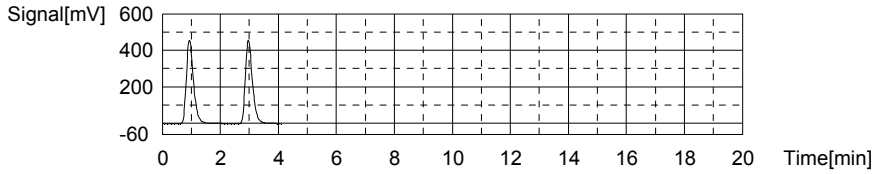
Mean Area 1104
Mean Conc. 28.22mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	773.0	22.95mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 4:55:30 PM
2	770.4	22.87mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 5:00:15 PM

Mean Area 771.7
Mean Conc. 22.91mg/L



Sample

Sample Name: L16050576-04
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

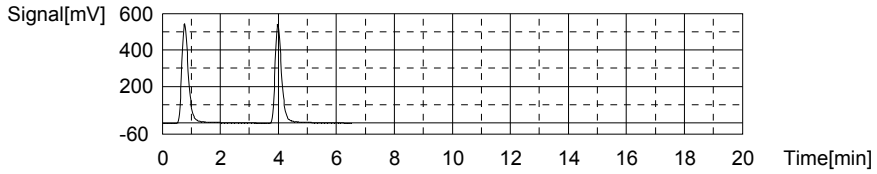
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:4.538mg/L TC:22.53mg/L IC:17.99mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	884.6	22.59mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 5:10:19 PM
2	880.4	22.48mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 5:16:00 PM

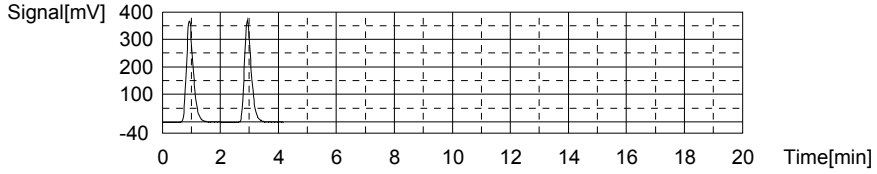
Mean Area 882.5
Mean Conc. 22.53mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	606.7	17.97mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 5:20:58 PM
2	608.0	18.01mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 5:25:51 PM

Mean Area 607.4
Mean Conc. 17.99mg/L



Sample

Sample Name: L16050586-01
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

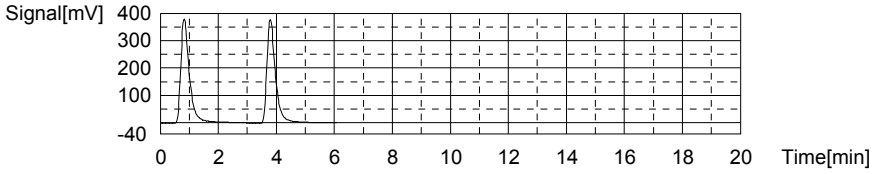
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:15.48mg/L TC:19.90mg/L IC:4.418mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	779.8	19.89mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 5:34:15 PM
2	780.1	19.90mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 5:40:33 PM

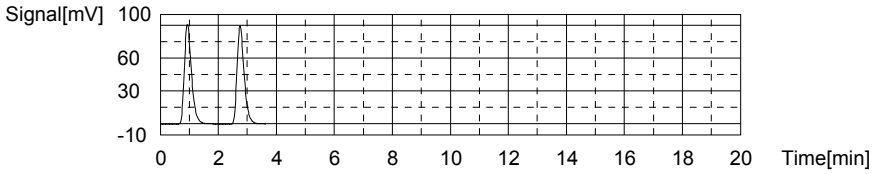
Mean Area 780.0
Mean Conc. 19.90mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	154.8	4.454mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 5:45:16 PM
2	152.4	4.382mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 5:49:44 PM

Mean Area 153.6
Mean Conc. 4.418mg/L



Sample

Sample Name: L16050587-01 (50)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

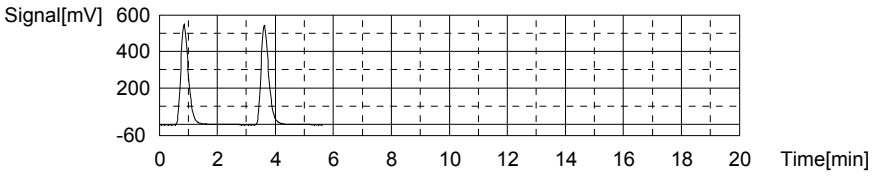
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:25.53mg/L TC:25.86mg/L IC:0.3237mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1009	25.78mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 5:57:57 PM
2	1015	25.93mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/12/2016 6:03:10 PM

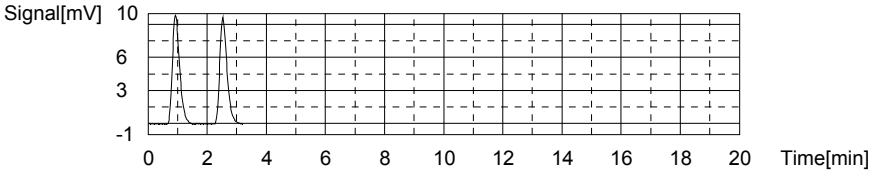
Mean Area 1012
Mean Conc. 25.86mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.94	0.3295mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 6:07:37 PM
2	16.55	0.3178mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/12/2016 6:11:49 PM

Mean Area 16.75
Mean Conc. 0.3237mg/L



Sample

Sample Name: L16050588-01 (50)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

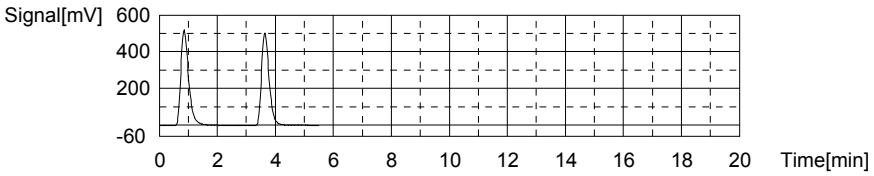
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:24.10mg/L TC:24.39mg/L IC:0.2903mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	989.5	25.28mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 8:13:19 AM
2	920.5	23.51mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 8:18:17 AM

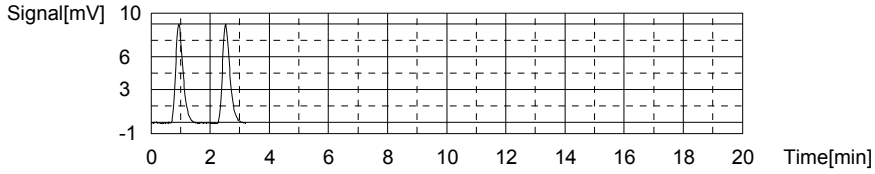
Mean Area 955.0
Mean Conc. 24.39mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.52	0.2870mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 8:22:43 AM
2	15.74	0.2936mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 8:27:01 AM

Mean Area 15.63
Mean Conc. 0.2903mg/L



Sample

Sample Name: L16050590-01 (50)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

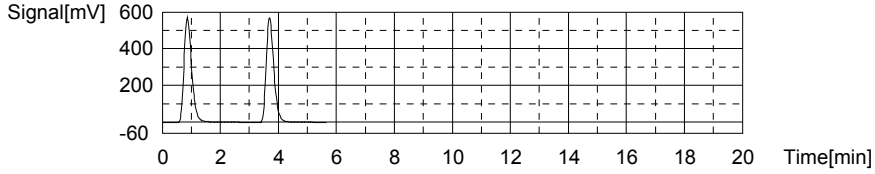
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:26.52mg/L TC:26.88mg/L IC:0.3654mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1057	27.01mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_31	5/13/2016 8:35:17 AM
2	1047	26.75mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_31	5/13/2016 8:40:29 AM

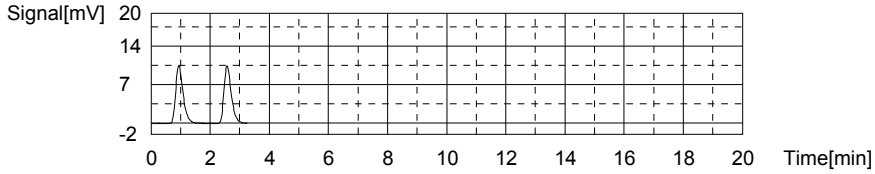
Mean Area 1052
Mean Conc. 26.88mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.19	0.3669mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_05	5/13/2016 8:44:58 AM
2	18.09	0.3639mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_05	5/13/2016 8:49:15 AM

Mean Area 18.14
Mean Conc. 0.3654mg/L



Sample

Sample Name: L16050598-01 (3)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

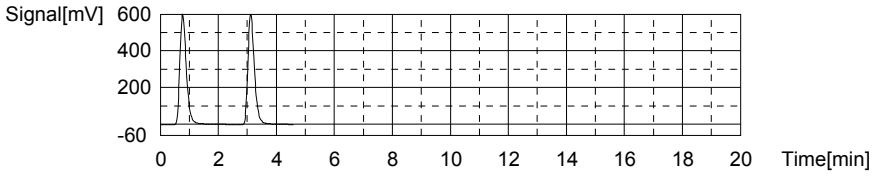
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:4.432mg/L TC:23.92mg/L IC:19.49mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	935.3	23.89mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 8:57:02 AM
2	938.2	23.96mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 9:01:32 AM

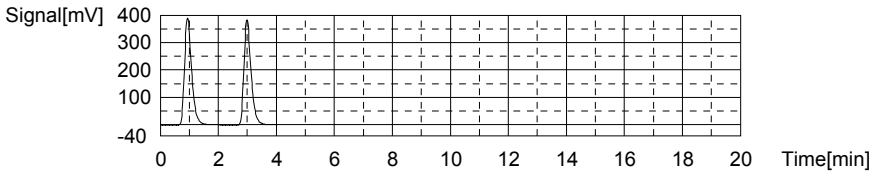
Mean Area 936.8
Mean Conc. 23.92mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	663.2	19.66mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 9:06:32 AM
2	651.7	19.32mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 9:11:17 AM

Mean Area 657.5
Mean Conc. 19.49mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

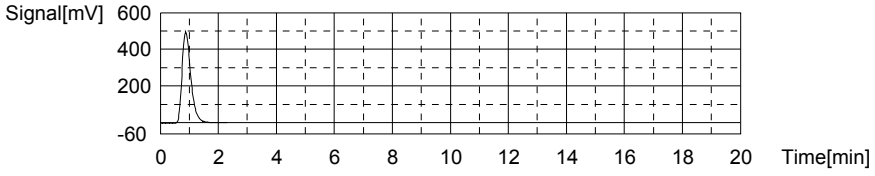
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:26.52mg/L TC:26.70mg/L IC:0.1814mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1045	26.70mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 9:19:02 AM

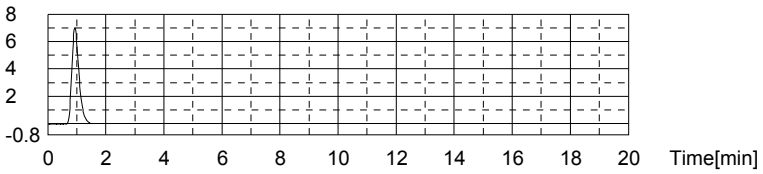
Mean Area 1045
Mean Conc. 26.70mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.99	0.1814mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 9:23:29 AM

Mean Area 11.99
Mean Conc. 0.1814mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

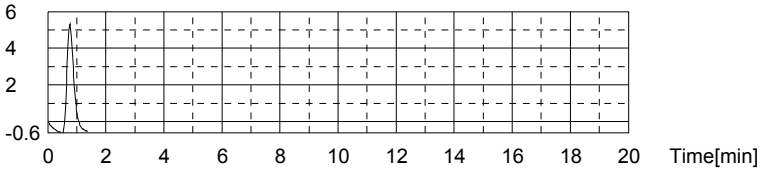
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:0.03017mg/L TC:0.1208mg/L IC:0.09063mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.657	0.1208mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 9:28:30 AM

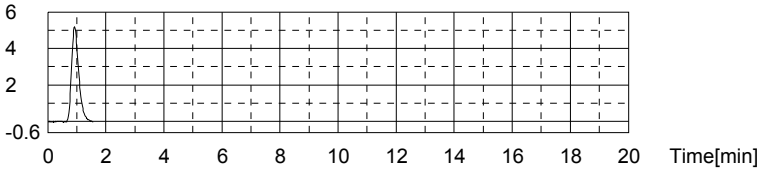
Mean Area 9.657
Mean Conc. 0.1208mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.956	0.09063mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 9:32:27 AM

Mean Area 8.956
Mean Conc. 0.09063mg/L



Sample

Sample Name: L16050598-02 (3)
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

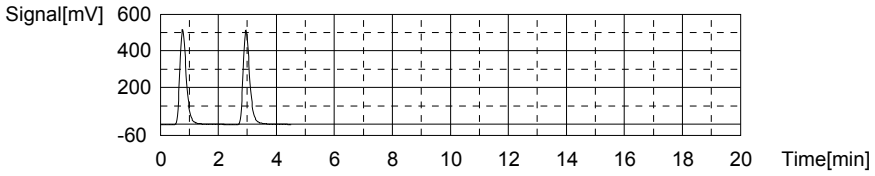
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:4.137mg/L TC:20.65mg/L IC:16.51mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	805.7	20.56mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 9:40:05 AM
2	812.7	20.74mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 9:44:40 AM

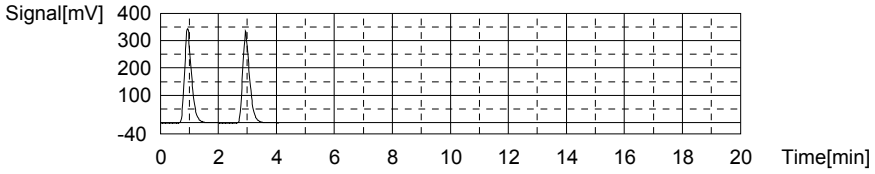
Mean Area 809.2
Mean Conc. 20.65mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	568.6	16.83mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 9:49:37 AM
2	547.1	16.19mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 9:54:25 AM

Mean Area 557.9
Mean Conc. 16.51mg/L



Sample

Sample Name: L16050613-01
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

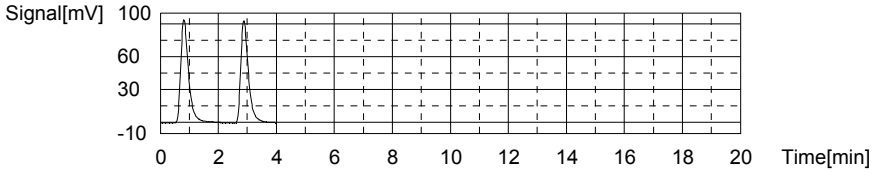
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:3.722mg/L TC:4.310mg/L IC:0.5874mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	174.2	4.345mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 10:01:57 AM
2	171.4	4.274mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 10:06:07 AM

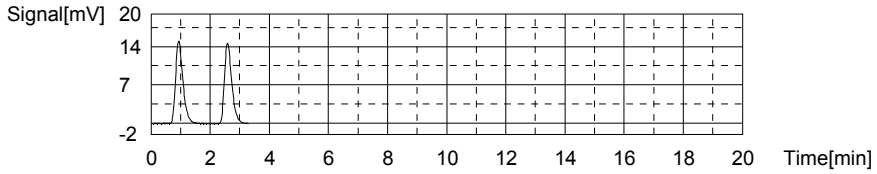
Mean Area 172.8
Mean Conc. 4.310mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.82	0.5952mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 10:10:38 AM
2	25.30	0.5796mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 10:14:51 AM

Mean Area 25.56
Mean Conc. 0.5874mg/L



Sample

Sample Name: WG568487-05 DUP
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

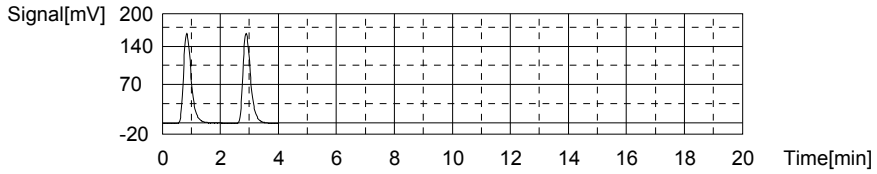
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:7.590mg/L TC:7.694mg/L IC:0.1037mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	303.6	7.668mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 10:22:21 AM
2	305.6	7.719mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 10:26:34 AM

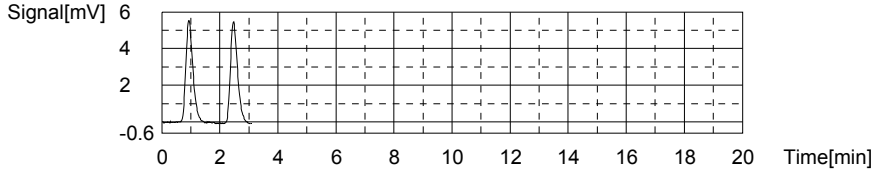
Mean Area 304.6
Mean Conc. 7.694mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.348	0.1024mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 10:30:58 AM
2	9.436	0.1050mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 10:35:06 AM

Mean Area 9.392
Mean Conc. 0.1037mg/L



Sample

Sample Name: WG568487-06 MS
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

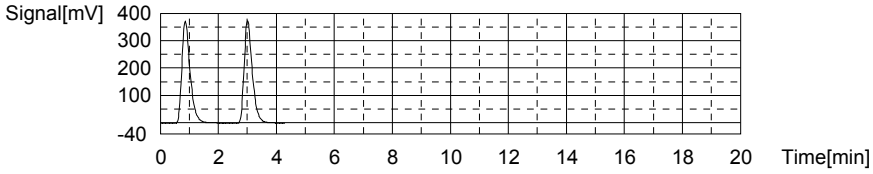
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:18.48mg/L TC:18.59mg/L IC:0.1039mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	732.5	18.68mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 10:42:42 AM
2	725.3	18.50mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 10:47:06 AM

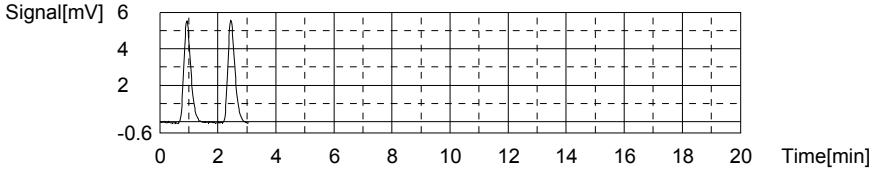
Mean Area 728.9
Mean Conc. 18.59mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.361	0.1027mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 10:51:29 AM
2	9.437	0.1050mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 10:55:36 AM

Mean Area 9.399
Mean Conc. 0.1039mg/L



Sample

Sample Name: L16050730-01
Sample ID: <Untitled>
Origin: TOC-10-31-2015A.met
Status Completed
Chk. Result

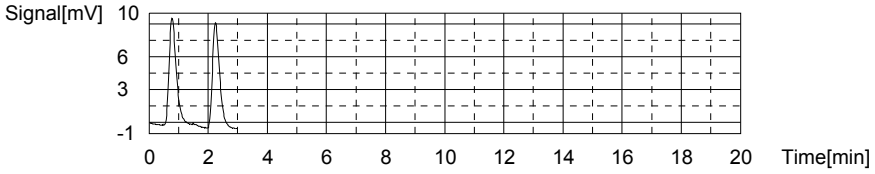
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:0.1347mg/L TC:0.2903mg/L IC:0.1557mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.48	0.2960mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 11:04:03 AM
2	16.04	0.2847mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 11:07:48 AM

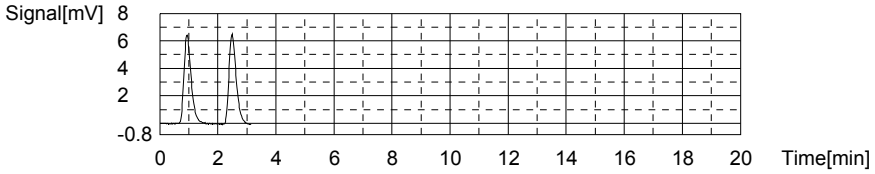
Mean Area 16.26
Mean Conc. 0.2903mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.00	0.1518mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 11:12:11 AM
2	11.26	0.1596mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 11:16:24 AM

Mean Area 11.13
Mean Conc. 0.1557mg/L



Sample

Sample Name: CCV
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

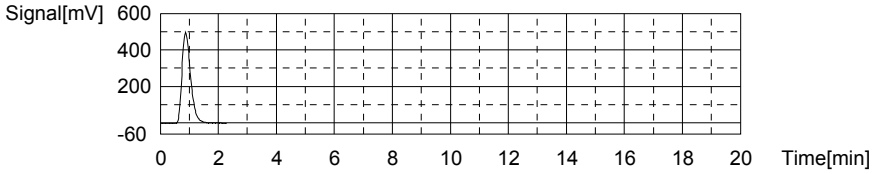
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:26.06mg/L TC:26.16mg/L IC:0.1066mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1024	26.16mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 11:25:42 AM

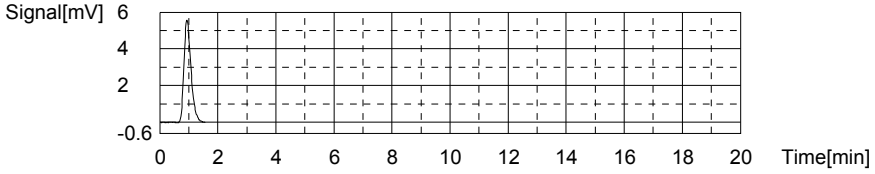
Mean Area 1024
Mean Conc. 26.16mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.490	0.1066mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 11:30:08 AM

Mean Area 9.490
Mean Conc. 0.1066mg/L



Sample

Sample Name: CCB
Sample ID:
Origin: TOC-10-31-2015.met
Status Completed
Chk. Result

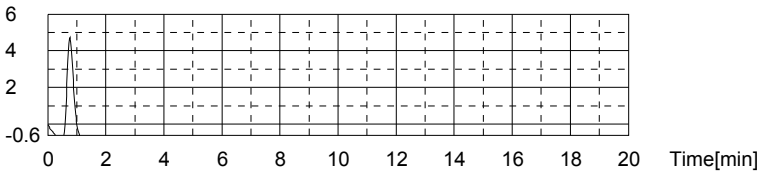
Type	Anal.	Dil.	Result
Unknown	TOC	1.000	TOC:0.01342mg/L TC:0.09759mg/L IC:0.08417mg/L

1. Det

Anal.: TC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.753	0.09759mg/L	500uL	1		TCCURVE-10-30-2015.2015_10_30_16_06_3	5/13/2016 11:35:06 AM

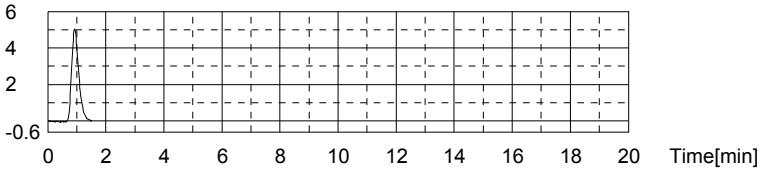
Mean Area 8.753
Mean Conc. 0.09759mg/L



Anal.: IC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.740	0.08417mg/L	500uL	1		TICCURVE-10-30-2015.2015_10_31_11_55_0	5/13/2016 11:39:03 AM

Mean Area 8.740
Mean Conc. 0.08417mg/L



3.0 Attachments

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
May 31, 2016

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001 – BIO-CHEM TESTING WVDEP 220	002 – REIC Consultants, Inc. WVDEP 060
003 – Sturm Environmental	004 – MICROBAC PITTSBURGH
005 – ES LABORATORIES	006 – ALCOSAN LABORATORIES
007 – ALS LABORATORIES	008 – BENCHMARK LABORATORIES
010 – MICROBAC CHICAGOLAND	AC – AMBER R. CARMICHAEL
ADC – ANTHONY D. CANTER	ADG – APRIL D. GREENE
AED – ALLEN E. DAVIS	ALS – ADRIANE L. STEED
AMA – ALEXANDRA M. ALFRED	AWE – ANDREW W. ESSIG
AZH – AFTER HOURS	BJO – BRIAN J. OGDEN
BKT – BRENDAN TORRENCE	BLG – BRENDA L. GREENWALT
BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES
CJR – COURTNEY J. REXROAD	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS
CPD – CHAD P. DAVIS	CSH – CHRIS S. HILL
DAK – DEAN A. KETELSEN	DCM – DAVID C. MERCKLE
DEV – DAVID E. VANDENBERG	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE
DLW – DIANA L. WRIGHT	DSM – DAVID S. MOSSOR
ECL – ERIC C. LAWSON	EMW – ERIC M. WILKEN
ENY – EMILY N. YOAK	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	JBK – JEREMY B. KINNEY
JDH – JUSTIN D. HESSON	JDS – JARED D. SMITH
JJS – JOHN J. STE MARIE	JKP – JACQUELINE K. PARSONS
JLD – JESSICA L. DELONG	JLL – JOHN L. LENT
JMW – JEANA M. WHITE	JTP – JOSHUA T. PEMBERTON
JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KAJ – KELLIE A. JOHNSON
KAT – KATHY A. TUCKER	KDW – KATHRYN D. WELCH
KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KKB – KERRI K. BUCK	KRA – KATHY R. ALBERTSON
KRB – KAELY R. BECKER	KRP – KATHY R. PARSONS
LEC – LAURA E. CARPENTER	LKN – LINDA K. NEDEFF
LLS – LARRY L. STEPHENS	LSB – LESLIE S. BUCINA
MAP – MARLA A. PORTER	MBK – MORGAN B. KNOWLTON
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN
MES – MARY E. SCHILLING	MLB – MEGAN L. BACHE
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON	PDM – PIERCE D. MORRIS
PIT – MICROBAC WARRENDALE	PRL – PAIGE R. LAMB
PSW – PEGGY S. WEBB	QX – QIN XU
RAH – ROY A. HALSTEAD	REK – BOB E. KYER
RLB – BOB BUCHANAN	RM – RAYMOND MALEKE
RNP – RICK N. PETTY	RST – ROBIN S. TURNER
SAV – SARAH A. VANDENBERG	SCB – SARAH C. BOGOLIN
SDC – SHALYN D. CONLEY	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TB – TODD BOYLE
TGF – TIM G. FELTON	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER
WJB – WILL J. BEASLEY	WRR – WESLEY R. RICHARDS
WTD – WADE T. DELONG	XXX – UNAVAILABLE OR SUBCONTRACT

Microbac Laboratories Inc.
List of Valid Qualifiers
May 31, 2016

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Greater than
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B,H1	Analyte present in method blank. Sample analysis performed past holding time.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
CT1	Cooler temperature at sample reciept exceeded regulatory limit.
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
E,CT1	Estimated results. The cooler temperature at receipt exceeded regulatory guidelines for requested testing.
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
F,CT1	Estimated value; the analyte concentration was less than the RL/LOQ. The cooler temperature at receipt exceeded regula
FL	Free Liquid
FP1	Did not ignite.
H1	Sample analysis performed past holding time.
H1,CT1	Sample analysis performed past holding time. The cooler temperature at receipt exceeded regulatory guidelines for reque
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the LOQ.
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,CT1	Estimated value ; the analyte concentration was less than the LOQ. Cooler temperature at sample reciept exceeded regu
J,H1	Estimated value ; the analyte concentration was less than the LOQ. Sample analysis performed past holding time.
J,H1	The reported result is an estimated value. Sample was analyzed past holding time.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
JB	The reported result is an estimated value. The reported result is also associated with a contaminated method blank.
JQ	The reported result is an estimated value and one or more quality control criteria failed. See narrative.
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
ND, B	Not detected at or above the reporting limit (RL). Analyte present in method blank.
ND, CT1	Analyte was not detected. The concentration is below the reported LOD. The cooler temperature at receipt exceeded reg
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
ND,H1	Not detected; Sample analysis performed past holding time.
ND,H1,CT1	Not detected; Sample analysis performed past holding time. The cooler temperature at receipt exceeded regulatory guide
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
Q,H1	One or more quality control criteria failed. Sample analyzed past holding time. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
T5	Laboratory not licensed for this parameter
TIC	Library Search Compound
TNTC	Too numerous to count

Microbac Laboratories Inc.
List of Valid Qualifiers
May 31, 2016

Qualkey: DOD

TNTC, B	Too numerous to count. Analyte present in method blank.
TNTC,CT1	Too numerous to count. The cooler temperature at receipt exceeded regulatory guidelines for requested testing.
TNTC,H1	Too numerous to count. Sample analysis performed past holding time.
U	Analyte was not detected. The concentration is below the reported LOD.
U,CT1	Analyte was not detected. The concentration is below the reported LOD. Cooler temperature at sample reciept exceeded
U,H1	Not detected; Sample analysis performed past holding time.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

AECOM

Chain of Custody Record

COC Number:

Laboratory:	Microbac POC: Stephanie Mossburg	Project Manager:	Debra Richmann
Address:	158 Starlite Drive	Phone/Fax Number:	210-296-2000
	Marietta, OH 45750	Sampler (print):	Scott Beesinger
Phone:	1-800-373-4071		
Client:	AECOM	Signature:	Scott Beesinger
Address:	112 East Pecan Ste. 400		
	San Antonio, TX 78205		
Turn Around Time:	STANDARD	pH:	
Project Name/Location:	Longhorn		
Project Number:	60256135.0002GA		

Mail to: Linda Raabe, 112 East Pecan STE. 400, San Antonio, TX 78205, 210-296-2000

Fed Ex Airbill No:

Program:

Site Name	Sample ID/Location ID	SBD	SED	Date	Time	Comp	Grab	Matrix	Number of Containers	VOC	Perchlorate	Dissolved Gases / Carbon Dioxide	Alkalinity	Sulfide	Chloride / Sulfate Nitrate / Nitrite	TOC / Total Phosphorous	Dissolved Iron / Dissolved Manganese	ERPIMS REQUIRED FIELDS: SA CODE	Cooler ID	LOT CONTROL NUMBERS: ABLOT	EBLOT	TBLOT
SITE 50	50WW22-051016			5/10/16	0750		✓	W	11	✓	✓	✓	✓	✓	✓	✓						
	50WW22FF-051016			5/10/16	0750		✓	W	1								✓					
	50WW11-051016			5/10/16	0900		✓	W	11	✓	✓	✓	✓	✓	✓	✓						
	50WW11FF-051016			5/10/16	0900		✓	W	1								✓					
	50WW06-051016			5/10/16	1010		✓	W	11	✓	✓	✓	✓	✓	✓	✓						
	50WW06FF-051016			5/10/16	1010		✓	W	1								✓					
	50WW12-051016			5/10/16	1120		✓	W	11	✓	✓	✓	✓	✓	✓	✓						
	50WW12FF-051016			5/10/16	1120		✓	W	1								✓					
	50WW24-051016			5/10/16	1320		✓	W	11	✓	✓	✓	✓	✓	✓	✓						
	50WW24FF-051016			5/10/16	1320		✓	W	1								✓					
	50WW23-051016			5/10/16	1435		✓	W	11	✓	✓	✓	✓	✓	✓	✓						
	50WW23FF-051016			5/10/16	1435		✓	W	1								✓					
	TRIP BLANK			5/10/16			✓	W	2	✓												

Comments: STANDARD TAT

Microbac OVD
Received: 05/11/2016 09:43
By: CARA STRICKLER
221000085741

Relinquished by: (Signature)	Date	Time	Received
Scott Beesinger	5/10/16	1545	
Relinquished by: (Signature)	Date	Time	Received (Signatur
			Cara Strickler

Time	Relinquished by: (Signature)
ne	Remarks:

*Homogenize all composite samples prior to analysis

Distribution: White to Laboratory, Canary to Project Manager, Pink QA/QC Manager

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-01	742532	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

Samplenum	Container ID	Products
L16050571-01	742533	RSK175EXT

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-01	742534	9056

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	L1	11-MAY-2016 10:20	CLS		
2	PREP	L1	SEM	11-MAY-2016 10:30	AED	BRG	
3	STORE	SEM	A1	19-MAY-2016 12:58	CLS	AED	

Samplenum	Container ID	Products
L16050571-01	742535	ALK

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	13-MAY-2016 09:52	TB	CLS	
3	STORE	WET	A1	17-MAY-2016 11:37	CLS	TB	

Samplenum	Container ID	Products
L16050571-01	742536	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	SEM	20-MAY-2016 09:27	JWR	CLS	
3	STORE	SEM	A1	23-MAY-2016 12:01	CLS	JWR	

Samplenum	Container ID	Products
L16050571-01	742537	TOC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		<2
2	PREP	W1	WET	12-MAY-2016 08:32	EPT	BRG	
3	STORE	WET	A1	16-MAY-2016 08:39	BRG	EPT	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-01	742538	S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	11-MAY-2016 13:01	TB	CLS	
3	STORE	WET	A1	11-MAY-2016 16:43	CLS	TB	

Samplenum	Container ID	Products
L16050571-02	742539	FE-D MN-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	PREP	W1	DIG	11-MAY-2016 15:40	ERP	BRG	
3	ANALYZ*	DIG	METALS	12-MAY-2016 10:34	JYH	ERP	
4	STORE	DIG	A1	13-MAY-2016 15:12	CLS	ERP	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L16050571-03	742540	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-03	742541	RSK175EXT

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Samplenum	Container ID	Products
L16050571-03	742542	9056

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	L1	11-MAY-2016 10:20	CLS		
2	PREP	L1	SEM	11-MAY-2016 10:30	AED	BRG	
3	STORE	SEM	A1	19-MAY-2016 12:58	CLS	AED	

Samplenum	Container ID	Products
L16050571-03	742543	ALK

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	13-MAY-2016 09:52	TB	CLS	
3	STORE	WET	A1	17-MAY-2016 11:37	CLS	TB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-03	742544	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	SEM	20-MAY-2016 09:27	JWR	CLS	
3	STORE	SEM	A1	23-MAY-2016 12:01	CLS	JWR	

Samplenum	Container ID	Products
L16050571-03	742545	TOC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		<2
2	PREP	W1	WET	12-MAY-2016 08:32	EPT	BRG	
3	STORE	WET	A1	16-MAY-2016 08:39	BRG	EPT	

Samplenum	Container ID	Products
L16050571-03	742546	S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	11-MAY-2016 13:01	TB	CLS	
3	STORE	WET	A1	11-MAY-2016 16:43	CLS	TB	

Samplenum	Container ID	Products
L16050571-04	742547	FE-D MN-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	PREP	W1	DIG	11-MAY-2016 15:40	ERP	BRG	
3	ANALYZ*	DIG	METALS	12-MAY-2016 10:34	JYH	ERP	
4	STORE	DIG	A1	13-MAY-2016 15:12	CLS	ERP	

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-05	742548	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

Samplenum	Container ID	Products
L16050571-05	742549	RSK175EXT

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-05	742550	9056

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	L1	11-MAY-2016 10:20	CLS		
2	PREP	L1	SEM	11-MAY-2016 10:30	AED	BRG	
3	STORE	SEM	A1	19-MAY-2016 12:58	CLS	AED	

Samplenum	Container ID	Products
L16050571-05	742551	ALK

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	13-MAY-2016 09:52	TB	CLS	
3	STORE	WET	A1	17-MAY-2016 11:37	CLS	TB	

Samplenum	Container ID	Products
L16050571-05	742552	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	SEM	20-MAY-2016 09:26	JWR	CLS	
3	STORE	SEM	A1	23-MAY-2016 12:01	CLS	JWR	

Samplenum	Container ID	Products
L16050571-05	742553	TOC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		<2
2	PREP	W1	WET	12-MAY-2016 08:32	EPT	BRG	
3	STORE	WET	A1	16-MAY-2016 08:39	BRG	EPT	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-05	742554	S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	11-MAY-2016 13:01	TB	CLS	
3	STORE	WET	A1	11-MAY-2016 16:43	CLS	TB	

Samplenum	Container ID	Products
L16050571-06	742555	FE-D MN-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	PREP	W1	DIG	11-MAY-2016 15:40	ERP	BRG	
3	ANALYZ*	DIG	METALS	12-MAY-2016 10:34	JYH	ERP	
4	STORE	DIG	A1	13-MAY-2016 15:12	CLS	ERP	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L16050571-07	742556	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:34	CLS	AWE	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-07	742557	RSK175EXT

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Samplenum	Container ID	Products
L16050571-07	742558	9056

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	L1	11-MAY-2016 10:20	CLS		
2	PREP	L1	SEM	11-MAY-2016 10:30	AED	BRG	
3	STORE	SEM	A1	19-MAY-2016 12:58	CLS	AED	

Samplenum	Container ID	Products
L16050571-07	742559	ALK

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	13-MAY-2016 09:52	TB	CLS	
3	STORE	WET	A1	17-MAY-2016 11:37	CLS	TB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-07	742560	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	SEM	20-MAY-2016 09:27	JWR	CLS	
3	STORE	SEM	A1	23-MAY-2016 12:01	CLS	JWR	

Samplenum	Container ID	Products
L16050571-07	742561	TOC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		<2
2	PREP	W1	WET	12-MAY-2016 08:32	EPT	BRG	
3	STORE	WET	A1	16-MAY-2016 08:39	BRG	EPT	

Samplenum	Container ID	Products
L16050571-07	742562	S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	11-MAY-2016 13:01	TB	CLS	
3	STORE	WET	A1	11-MAY-2016 16:43	CLS	TB	

Samplenum	Container ID	Products
L16050571-08	742563	FE-D MN-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	PREP	W1	DIG	11-MAY-2016 15:40	ERP	BRG	
3	ANALYZ*	DIG	METALS	12-MAY-2016 10:34	JYH	ERP	
4	STORE	DIG	A1	13-MAY-2016 15:12	CLS	ERP	

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-09	742564	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:33	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:33	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:33	CLS	AWE	

Samplenum	Container ID	Products
L16050571-09	742565	RSK175EXT

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-09	742566	9056

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	L1	11-MAY-2016 10:20	CLS		
2	PREP	L1	SEM	11-MAY-2016 10:30	AED	BRG	
3	STORE	SEM	A1	19-MAY-2016 12:58	CLS	AED	

Samplenum	Container ID	Products
L16050571-09	742567	ALK

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	13-MAY-2016 09:52	TB	CLS	
3	STORE	WET	A1	17-MAY-2016 11:37	CLS	TB	

Samplenum	Container ID	Products
L16050571-09	742568	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	SEM	20-MAY-2016 09:27	JWR	CLS	
3	STORE	SEM	A1	23-MAY-2016 12:01	CLS	JWR	

Samplenum	Container ID	Products
L16050571-09	742569	TOC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		<2
2	PREP	W1	WET	12-MAY-2016 08:32	EPT	BRG	
3	STORE	WET	A1	16-MAY-2016 08:39	BRG	EPT	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-09	742570	S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	11-MAY-2016 13:01	TB	CLS	
3	STORE	WET	A1	11-MAY-2016 16:43	CLS	TB	

Samplenum	Container ID	Products
L16050571-10	742571	FE-D MN-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	PREP	W1	DIG	11-MAY-2016 15:40	ERP	BRG	
3	ANALYZ*	DIG	METALS	12-MAY-2016 10:34	JYH	ERP	
4	STORE	DIG	A1	13-MAY-2016 15:12	CLS	ERP	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L16050571-11	742572	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:33	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:33	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:33	CLS	AWE	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-11	742573	RSK175EXT

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG1	12-MAY-2016 07:42	AWE	CLS	
3	STORE	ORG1	A1	27-MAY-2016 07:39	CLS	AWE	

Samplenum	Container ID	Products
L16050571-11	742574	9056

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	L1	11-MAY-2016 10:20	CLS		
2	PREP	L1	SEM	11-MAY-2016 10:30	AED	BRG	
3	STORE	SEM	A1	19-MAY-2016 12:58	CLS	AED	

Samplenum	Container ID	Products
L16050571-11	742575	ALK

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	13-MAY-2016 09:52	TB	CLS	
3	STORE	WET	A1	17-MAY-2016 11:37	CLS	TB	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-11	742576	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	SEM	20-MAY-2016 09:27	JWR	CLS	
3	STORE	SEM	A1	23-MAY-2016 12:02	CLS	JWR	

Samplenum	Container ID	Products
L16050571-11	742577	TOC

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		<2
2	PREP	W1	WET	12-MAY-2016 08:32	EPT	BRG	
3	STORE	WET	A1	16-MAY-2016 08:39	BRG	EPT	

Samplenum	Container ID	Products
L16050571-11	742578	S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	ANALYZ	W1	WET	11-MAY-2016 13:01	TB	CLS	
3	STORE	WET	A1	11-MAY-2016 16:43	CLS	TB	

Samplenum	Container ID	Products
L16050571-12	742579	FE-D MN-MSD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	11-MAY-2016 10:20	CLS		
2	PREP	W1	DIG	11-MAY-2016 15:40	ERP	BRG	
3	ANALYZ*	DIG	METALS	12-MAY-2016 10:34	JYH	ERP	
4	STORE	DIG	A1	13-MAY-2016 15:12	CLS	ERP	

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050571
Account: 2551
Project: 2551.096
Samples: 13
Due Date: 20-MAY-2016

Samplenum	Container ID	Products
L16050571-13	742580	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:33	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	11-MAY-2016 10:20	CLS		
2	ANALYZ	V1	ORG4	12-MAY-2016 07:45	AWE	CLS	
3	STORE	ORG4	A1	25-MAY-2016 07:33	CLS	AWE	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

NELAP Addendum - January 4, 2016

Non-NELAP LIMS Product and Description

The following is a list of those tests that are not included in the Microbac – OVD NELAP Scope of Accreditation:

Heat of Combustion (BTU)
Total Halide by Bomb Combustion (TX)
Particle Sizing - 200 Mesh (PS200)
Specific Gravity/Density (SPGRAV)
Total Residual Chlorine (CL-TRL)
Total Volatile Solids (all forms) (TVS)
Total Coliform Bacteria (all methods)
Fecal Coliform Bacteria (all methods)
Sulfite (SO3)
Propionaldehyde (HPLC-UV)

SOLID AND HAZARDOUS CHEMICALS
Nitrogen, Ammonia by Method 350.1
Chromium, Hexavalent, Leachable by SM3500 Cr-B 2009
Phenolics, Total by Method 420.1
ASTM D3987-06

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVD HPLC02/HPLC-UV

Nitroglycerin
Acetic acid
Butyric acid
Lactic acid
Propionic acid
Pyruvic acid

OVD MSS01/GC-MS

1,4-Phenylenediamine
1-Methylnaphthalene
1,4-Dioxane
Atrazine
Benzaldehyde
Biphenyl
Caprolactam
Hexamethylphosphoramide (HMPA)
Pentachlorobenzene
Pentachloroethane

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVD MSV01/GC-MS

1, 1, 2-Trichloro-1,2,2-trifluoroethane
1,3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
Isoprene
Methylacetate
Methylcyclohexane
T-amylmethylether (TAME)
Tetrahydrofuran (THF)

OVD HPLC07/HPLC-MS-MS

Hexamethylphosphoramide (XMPA-LCMS)

OVD HPLC12/HPLC/UV

Acetate
Formate

OVD RSK01/GC-FID

Acetylene
Propane

OVD K9305/ISE

Fluoroborate

SOLID AND HAZARDOUS CHEMICALS

OVD MSS0I/GC-MS

1-Methylnaphthalene
Benzaldehyde
Biphenyl
Caprolactam
Pentachloroethane

NELAP Accreditation by Laboratory SOP

SOLID AND HAZARDOUS CHEMICALS

OVD MSV0I/GC-MS

1.3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
Isoprene
Methylacetate
Methylcyclohexane
n-Hexane
T-amylmethylether (TAME)

Microbac

Laboratory Report Number: L16050763

Kayla Teague
AECOM Technical Services, Inc.
16000 Dallas Parkway
Dallas, TX 75248

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:
Stephanie Mossburg – Team Chemist/Data Specialist
(740) 373-4071
Stephanie.Mossburg@microbac.com

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on May 26 2016

David L. Vandenberg

David Vandenberg – Managing Director

State of Origin: TX
Accrediting Authority: Texas Commission on Environmental Quality ID:T104704252-07-TX
QAPP: DOD Ver 4.1

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

The following discrepancies were noted:

Discrepancy	Resolution
Per the client samples 50WW17 and 50WW19 are not to be analyzed. They need to be recollected. SLM	

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #	Temp Required?
00113028	I	5.0		J2317165278	X

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	All samples were checked for pH and met the standard. Exceptions are noted above under discrepancy. (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	Yes

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
50WW07-051116	L16050763-01	05/11/2016 07:50	05/13/2016 10:25
50WW07MS-051116	L16050763-02	05/11/2016 07:50	05/13/2016 10:25
50WW07MSD-051116	L16050763-03	05/11/2016 07:50	05/13/2016 10:25
50WW28-051116	L16050763-04	05/11/2016 11:20	05/13/2016 10:25
50WW20-051116	L16050763-05	05/11/2016 13:25	05/13/2016 10:25
50WW05-051116	L16050763-06	05/11/2016 14:25	05/13/2016 10:25
50WW05FD-051116	L16050763-07	05/11/2016 14:25	05/13/2016 10:25
50WW16-051116	L16050763-08	05/11/2016 15:25	05/13/2016 10:25
50WW01-051216	L16050763-09	05/12/2016 07:20	05/13/2016 10:25
50WW09-051216	L16050763-10	05/12/2016 08:25	05/13/2016 10:25
50WW10-051216	L16050763-11	05/12/2016 09:25	05/13/2016 10:25
50WW10FD-051216	L16050763-12	05/12/2016 09:25	05/13/2016 10:25
50WW15-051216	L16050763-13	05/12/2016 10:30	05/13/2016 10:25
50WW27-05126	L16050763-14	05/12/2016 13:40	05/13/2016 10:25
50WW27MS-05126	L16050763-15	05/12/2016 13:40	05/13/2016 10:25
50WW27MSD-05126	L16050763-16	05/12/2016 13:40	05/13/2016 10:25
50WW21-051216	L16050763-17	05/12/2016 14:40	05/13/2016 10:25
50WW21FD-051216	L16050763-18	05/12/2016 14:40	05/13/2016 10:25
50WW26-051216	L16050763-19	05/12/2016 15:35	05/13/2016 10:25
TRIP BLANK	L16050763-20	05/12/2016 00:01	05/13/2016 10:25

Microbac REPORT L16050763
PREPARED FOR AECOM Technical Services, Inc.
WORK ID:

1.0 Summary Data

1.1 Narratives

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	8260
Prep Batch Number(s):	569786, 569773, 569789	**Reviewer Name:**	Franci Bolden
LRC Date:	2016-05-25 00:00:00		

Laboratory Data Package Cover Page

X	R1	Field chain-of-custody documentation;
X	R2	Sample identification cross-reference;
X	R3	Test reports (analytical data sheets) for each environmental sample that includes: (a) Items consistent with NELAC Chapter 5, (b) dilution factors, (c) preparation methods, (d) cleanup methods, and (e) a.if required for the project, tentatively identified compounds (TICs).
X	R4	Surrogate recovery data including: (a) Calculated recovery (%R), and (b) the laboratory's surrogate QC limits.
X	R5	Test reports/summary forms for blank samples;
X	R6	Test reports/summary forms for laboratory control samples (LCSs) including: (a) LCS spiking amounts, (b) calculated %R for each analyte, and (c) the laboratory's LCS QC limits.
X	R7	Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including: (a) samples associated with the MS/MSD clearly identified, (b) MS/MSD spiking compounds, (c) concentration of each MS/MSD analyte measured in the parent and spiked samples, (d) calculated %Rs and relative percent differences (RPDs), and (e) the laboratory's MS/MSD QC limits.
X	R8	Laboratory analytical duplicate (if applicable) recovery and precision: (a) the amount of analyte measured in the duplicate, (b) the calculated RPD, and (c) the laboratory's QC limits for analytical duplicates.
X	R9	List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
X	R10	Other problems or anomalies.

Name (Printed)	Signature	Official Title (Printed)	Date
Franci Bolden		Analyst I	2016-05-25 21:30:30

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	8260
Prep Batch Number(s):	569786, 569773, 569789	**Reviewer Name:**	Franci Bolden
LRC Date:	2016-05-25 00:00:00		

Description	Yes	No	NA	NR	ER#
Chain-of-custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
Were all departures from standard conditions described in an exception report?	X				
Sample and quality control (QC) identification	X				
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
Test reports					
Were all samples prepared and analyzed within holding times?	X				
Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
Were calculations checked by a peer or supervisor?	X				
Were all analyte identifications checked by a peer or supervisor?	X				
Were sample detection limits reported for all analytes not detected?	X				
Were all results for soil and sediment samples reported on a dry weight basis?	X				
Were % moisture (or solids) reported for all soil and sediment samples?	X				
Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
If required for the project, are TICs reported?			X		
Surrogate recovery data					
Were surrogates added prior to extraction?	X				
Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
Test reports/summary forms for blank samples	X				
Were appropriate type(s) of blanks analyzed?	X				
Were blanks analyzed at the appropriate frequency?	X				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
Were blank concentrations < MQL?		X			2
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	X				

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	8260
Prep Batch Number(s):	569786, 569773, 569789	**Reviewer Name:**	Franci Bolden
LRC Date:	2016-05-25 00:00:00		

Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
Were LCSs analyzed at the required frequency?	X				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
Was the LCSD RPD within QC limits?	X				
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?	X				
Were MS/MSD analyzed at the appropriate frequency?	X				
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
Were MS/MSD RPDs within laboratory QC limits?	X				
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			X		
Were analytical duplicates analyzed at the appropriate frequency?			X		
Were RPDs or relative standard deviations within the laboratory QC limits?			X		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	X				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				
Initial calibration (ICAL)					
Were response factors and/or relative response factors for each analyte within QC limits?	X				
Were percent RSDs or correlation coefficient criteria met?	X				

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	8260
Prep Batch Number(s):	569786, 569773, 569789	**Reviewer Name:**	Franci Bolden
LRC Date:	2016-05-25 00:00:00		

Was the number of standards recommended in the method used for all analytes?	X				
Were all points generated between the lowest and highest standard used to calculate the curve?	X				
Are ICAL data available for all instruments used?	X				
Has the initial calibration curve been verified using an appropriate second source standard?	X				
Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	X				
Were percent differences for each analyte within the method-required QC limits?		X			5
Was the ICAL curve verified for each analyte?		X			4
Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
Mass spectral tuning					
Was the appropriate compound for the method used for tuning?	X				
Were ion abundance data within the method-required QC limits?	X				
Internal standards (IS)					
Were IS area counts and retention times within the method-required QC limits?	X				
Raw data (NELAC Section 5.5.10)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
Were data associated with manual integrations flagged on the raw data?	X				
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			X		
Tentatively identified compounds (TICs)					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
Interference Check Sample (ICS) results					
Were percent recoveries within method QC limits?			X		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
Method detection limit (MDL) studies					

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	8260
Prep Batch Number(s):	569786, 569773, 569789	**Reviewer Name:**	Franci Bolden
LRC Date:	2016-05-25 00:00:00		

Was a MDL study performed for each reported analyte?	X				
Is the MDL either adjusted or supported by the analysis of DCSs?	X				
Proficiency test reports					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	X				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5?	X				
Is documentation of the analyst's competency up-to-date and on file?	X				
Verification/validation documentation for methods (NELAC Chapter 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
Laboratory standard operating procedures (SOPs)					
Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter “R” must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period;

2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked).

The Exception Report for each “No” or “Not Reviewed (NR)” item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	8260
Prep Batch Number(s):	569786, 569773, 569789	**Reviewer Name:**	Franci Bolden
LRC Date:	2016-05-25 00:00:00		

below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC §25.6 and was last inspection by [ ] TCEQ or [ ] _____ on **(enter date of last inspection**). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Exceptions Report

1) Sample 19 had high recovery for surrogates 1,2-Dichloroethane-d4 and Dibromofluoromethane, but was non-detect for all target compounds. Reanalysis was not performed.

2) Method Blank WG569773-01 analyzed 5/20/16 on HPMS17 had a result for 1,2,4-Trichlorobenzene greater than 1/2 of the reporting limit, but less than the reporting limit. Associated samples were either non-detect or had results below the RL for 1,2,4-Trichlorobenzene.

3) 1,1,2,2-Tetrachloroethane exceeded the UCL in MS/MSD samples 02/03. 1,1-Dichloroethene and 1,1-Dichloropropene were below the LCL in MS/MSD samples 15/16.

4) Bromomethane, Chloroethane, Dichlorodifluoromethane and Trichlorofluoromethane were below the LCL in ICV WG569734-12 analyzed 5/20/16 on HPMS17.

5) Carbon Tetrachloride, Dichlorodifluoromethane, 1,2-Dichloroethane, 2,2-Dichloropropane, Hexachlorobutadiene, and Trichlorofluoromethane exceeded the UCL in CCV WG569785-02 analyzed 5/21/16 on HPMS11. These compounds were not detected in the associated samples. Bromomethane was below the LCL in CCV WG569788-02 analyzed 5/21/16 on HPMS17.

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG569894	**Reviewer Name:**	Eric Lawson
LRC Date:	2016-05-24 00:00:00		

Laboratory Data Package Cover Page

X	R1	Field chain-of-custody documentation;
X	R2	Sample identification cross-reference;
X	R3	Test reports (analytical data sheets) for each environmental sample that includes: (a) Items consistent with NELAC Chapter 5, (b) dilution factors, (c) preparation methods, (d) cleanup methods, and (e) a.if required for the project, tentatively identified compounds (TICs).
X	R4	Surrogate recovery data including: (a) Calculated recovery (%R), and (b) the laboratory's surrogate QC limits.
X	R5	Test reports/summary forms for blank samples;
X	R6	Test reports/summary forms for laboratory control samples (LCSs) including: (a) LCS spiking amounts, (b) calculated %R for each analyte, and (c) the laboratory's LCS QC limits.
X	R7	Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including: (a) samples associated with the MS/MSD clearly identified, (b) MS/MSD spiking compounds, (c) concentration of each MS/MSD analyte measured in the parent and spiked samples, (d) calculated %Rs and relative percent differences (RPDs), and (e) the laboratory's MS/MSD QC limits.
X	R8	Laboratory analytical duplicate (if applicable) recovery and precision: (a) the amount of analyte measured in the duplicate, (b) the calculated RPD, and (c) the laboratory's QC limits for analytical duplicates.
X	R9	List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
X	R10	Other problems or anomalies.

Name (Printed)	Signature	Official Title (Printed)	Date
Eric Lawson		Chemist III	2016-05-24 17:38:50

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG569894	**Reviewer Name:**	Eric Lawson
LRC Date:	2016-05-24 00:00:00		

Description	Yes	No	NA	NR	ER#
Chain-of-custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
Were all departures from standard conditions described in an exception report?	X				
Sample and quality control (QC) identification	X				
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
Test reports					
Were all samples prepared and analyzed within holding times?	X				
Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
Were calculations checked by a peer or supervisor?	X				
Were all analyte identifications checked by a peer or supervisor?	X				
Were sample detection limits reported for all analytes not detected?	X				
Were all results for soil and sediment samples reported on a dry weight basis?			X		
Were % moisture (or solids) reported for all soil and sediment samples?			X		
Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
If required for the project, are TICs reported?			X		
Surrogate recovery data					
Were surrogates added prior to extraction?			X		
Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
Test reports/summary forms for blank samples					
Were appropriate type(s) of blanks analyzed?	X				
Were blanks analyzed at the appropriate frequency?	X				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
Were blank concentrations < MQL?	X				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	X				

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG569894	**Reviewer Name:**	Eric Lawson
LRC Date:	2016-05-24 00:00:00		

Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
Were LCSs analyzed at the required frequency?	X				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
Was the LCSD RPD within QC limits?			X		
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?	X				
Were MS/MSD analyzed at the appropriate frequency?	X				
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
Were MS/MSD RPDs within laboratory QC limits?	X				
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			X		
Were analytical duplicates analyzed at the appropriate frequency?			X		
Were RPDs or relative standard deviations within the laboratory QC limits?			X		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	X				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				
Initial calibration (ICAL)					
Were response factors and/or relative response factors for each analyte within QC limits?	X				
Were percent RSDs or correlation coefficient criteria met?	X				

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG569894	**Reviewer Name:**	Eric Lawson
LRC Date:	2016-05-24 00:00:00		

Was the number of standards recommended in the method used for all analytes?	X				
Were all points generated between the lowest and highest standard used to calculate the curve?	X				
Are ICAL data available for all instruments used?	X				
Has the initial calibration curve been verified using an appropriate second source standard?	X				
Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	X				
Were percent differences for each analyte within the method-required QC limits?	X				
Was the ICAL curve verified for each analyte?	X				
Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
Mass spectral tuning					
Was the appropriate compound for the method used for tuning?	X				
Were ion abundance data within the method-required QC limits?	X				
Internal standards (IS)					
Were IS area counts and retention times within the method-required QC limits?	X				
Raw data (NELAC Section 5.5.10)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
Were data associated with manual integrations flagged on the raw data?	X				
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			X		
Tentatively identified compounds (TICs)					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
Interference Check Sample (ICS) results					
Were percent recoveries within method QC limits?			X		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
Method detection limit (MDL) studies					

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG569894	**Reviewer Name:**	Eric Lawson
LRC Date:	2016-05-24 00:00:00		

Was a MDL study performed for each reported analyte?	X				
Is the MDL either adjusted or supported by the analysis of DCSs?	X				
Proficiency test reports					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	X				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5?	X				
Is documentation of the analyst's competency up-to-date and on file?	X				
Verification/validation documentation for methods (NELAC Chapter 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
Laboratory standard operating procedures (SOPs)					
Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter “R” must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period;

2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked).

The Exception Report for each “No” or “Not Reviewed (NR)” item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050763
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG569894	**Reviewer Name:**	Eric Lawson
LRC Date:	2016-05-24 00:00:00		

below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC §25.6 and was last inspection by [ ] TCEQ or [ ] _____ on **(enter date of last inspection**). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Exceptions Report

There are no exceptions.

1.2 Certificate of Analysis

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW07-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 23:05
Collect Date:	05/11/2016 07:50	**Dilution:**	1	**File ID:**	17M021277
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.194	J	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.221	J	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.311	J	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.9	85	115	
1,2-Dichloroethane-d4	105	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	104	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-01	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW07-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 15:14
Collect Date:	05/11/2016 07:50	**Dilution:**	1	**File ID:**	1LM.LM35059
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	1.08		0.400	0.200	0.100

Certificate of Analysis

Sample #:	L16050763-02	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW07MS-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 21:27
Collect Date:	05/11/2016 07:50	**Dilution:**	1	**File ID:**	17M021272
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	25.9		10.0	5.00	2.50
Benzene	71-43-2	18.2		1.00	0.250	0.125
Bromobenzene	108-86-1	18.5		1.00	0.250	0.125
Bromochloromethane	74-97-5	18.7		1.00	0.400	0.200
Bromodichloromethane	75-27-4	19.3		1.00	0.500	0.250
Bromoform	75-25-2	19.3		2.00	1.00	0.500
Bromomethane	74-83-9	16.7		2.00	1.00	0.500
2-Butanone	78-93-3	23.4		10.0	5.00	2.50
n-Butylbenzene	104-51-8	18.6		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	18.9		1.00	0.500	0.250
tert-Butylbenzene	98-06-6	19.1		1.00	0.500	0.250
Carbon disulfide	75-15-0	19.1		2.00	1.00	0.500
Carbon tetrachloride	56-23-5	17.4		1.00	0.500	0.250
Chlorobenzene	108-90-7	19.0		1.00	0.250	0.125
Chlorodibromomethane	124-48-1	19.3		1.00	0.500	0.250
Chloroethane	75-00-3	15.3		2.00	1.00	0.500
Chloroform	67-66-3	18.2		1.00	0.250	0.125
Chloromethane	74-87-3	18.1		2.00	1.00	0.500
2-Chlorotoluene	95-49-8	18.9		1.00	0.250	0.125
4-Chlorotoluene	106-43-4	19.3		1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dibromo-3-chloropropane	96-12-8	23.8		5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	20.5		1.00	0.500	0.250
Dibromomethane	74-95-3	18.8		1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	19.4		1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	19.1		1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	18.7		1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	12.3		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	17.2		1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	19.6		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	15.5		2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	18.9		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	17.6		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	19.3		1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	21.1		1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	16.7		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	21.3		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	20.2		2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	16.9		1.00	0.500	0.250
Ethylbenzene	100-41-4	18.5		1.00	0.500	0.250
2-Hexanone	591-78-6	23.5		10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	19.1		1.00	0.500	0.250
Isopropylbenzene	98-82-8	19.1		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	18.9		1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	23.2		10.0	5.00	2.50
Methylene chloride	75-09-2	17.9		1.00	0.500	0.250
Naphthalene	91-20-3	20.6		1.00	0.400	0.200
n-Propylbenzene	103-65-1	19.3		1.00	0.250	0.125
Styrene	100-42-5	19.8		1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	20.0		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	26.6		1.00	0.400	0.200
Tetrachloroethene	127-18-4	17.1		1.00	0.500	0.250
Toluene	108-88-3	18.5		1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	20.7		1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	20.2		1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	17.4		1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	20.3		1.00	0.500	0.250
Trichloroethene	79-01-6	16.7		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	15.6		1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	21.4		2.00	1.00	0.500

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	19.0		1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	19.1		1.00	0.500	0.250
Vinyl chloride	75-01-4	16.8		1.00	0.500	0.250
o-Xylene	95-47-6	19.5		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	38.2		2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	105	85	115	
1,2-Dichloroethane-d4	106	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	104	75	120	

Certificate of Analysis

Sample #: L16050763-02
Client ID: 50WW07MS-051116
Matrix: Water
Workgroup #: WG569894
Collect Date: 05/11/2016 07:50
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 6850
Analytical Method: 6850
Analyst: JWR
Dilution: 1
Units: ug/L

Instrument: LCMS1
Prep Date: 05/23/2016 13:00
Cal Date: 05/03/2016 17:18
Run Date: 05/23/2016 15:33
File ID: 1LM.LM35060

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	1.29		0.400	0.200	0.100

Certificate of Analysis

Sample #: L16050763-03
Client ID: 50WW07MSD-051116
Matrix: Water
Workgroup #: WG569773
Collect Date: 05/11/2016 07:50
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 5030B/5030C/5035A
Analytical Method: 8260B
Analyst: ADC
Dilution: 1
Units: ug/L

Instrument: HPMS17
Prep Date: N/A
Cal Date: 05/20/2016 19:29
Run Date: 05/20/2016 21:47
File ID: 17M021273

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	26.2		10.0	5.00	2.50
Benzene	71-43-2	17.6		1.00	0.250	0.125
Bromobenzene	108-86-1	18.3		1.00	0.250	0.125
Bromochloromethane	74-97-5	18.4		1.00	0.400	0.200
Bromodichloromethane	75-27-4	18.7		1.00	0.500	0.250
Bromoform	75-25-2	18.8		2.00	1.00	0.500
Bromomethane	74-83-9	15.8		2.00	1.00	0.500
2-Butanone	78-93-3	23.0		10.0	5.00	2.50
n-Butylbenzene	104-51-8	18.1		1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
sec-Butylbenzene	135-98-8	18.3		1.00	0.500	0.250
tert-Butylbenzene	98-06-6	18.4		1.00	0.500	0.250
Carbon disulfide	75-15-0	18.0		2.00	1.00	0.500
Carbon tetrachloride	56-23-5	16.3		1.00	0.500	0.250
Chlorobenzene	108-90-7	18.5		1.00	0.250	0.125
Chlorodibromomethane	124-48-1	18.9		1.00	0.500	0.250
Chloroethane	75-00-3	14.5		2.00	1.00	0.500
Chloroform	67-66-3	17.7		1.00	0.250	0.125
Chloromethane	74-87-3	16.9		2.00	1.00	0.500
2-Chlorotoluene	95-49-8	18.6		1.00	0.250	0.125
4-Chlorotoluene	106-43-4	19.1		1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	23.9		5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	20.0		1.00	0.500	0.250
Dibromomethane	74-95-3	18.4		1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	19.1		1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	18.8		1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	18.3		1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	11.2		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	16.7		1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	19.1		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	14.6		2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	18.5		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	16.7		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	18.7		1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	20.7		1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	15.7		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	20.6		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	19.6		2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	16.0		1.00	0.500	0.250
Ethylbenzene	100-41-4	17.7		1.00	0.500	0.250
2-Hexanone	591-78-6	23.0		10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	18.7		1.00	0.500	0.250
Isopropylbenzene	98-82-8	18.4		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	18.7		1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	22.8		10.0	5.00	2.50
Methylene chloride	75-09-2	17.4		1.00	0.500	0.250
Naphthalene	91-20-3	20.4		1.00	0.400	0.200
n-Propylbenzene	103-65-1	18.8		1.00	0.250	0.125
Styrene	100-42-5	19.3		1.00	0.250	0.125

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,1,1,2-Tetrachloroethane	630-20-6	19.4		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	26.3		1.00	0.400	0.200
Tetrachloroethene	127-18-4	16.4		1.00	0.500	0.250
Toluene	108-88-3	18.0		1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	20.6		1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	19.9		1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	16.7		1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	19.9		1.00	0.500	0.250
Trichloroethene	79-01-6	16.2		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	14.4		1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	21.0		2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	18.6		1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	18.7		1.00	0.500	0.250
Vinyl chloride	75-01-4	15.6		1.00	0.500	0.250
o-Xylene	95-47-6	19.1		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	36.9		2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	105	85	115	
1,2-Dichloroethane-d4	105	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	105	75	120	

Certificate of Analysis

Sample #: L16050763-03
Client ID: 50WW07MSD-051116
Matrix: Water
Workgroup #: WG569894
Collect Date: 05/11/2016 07:50
Sample Tag: 01

PrePrep Method: N/A
Prep Method: 6850
Analytical Method: 6850
Analyst: JWR
Dilution: 1
Units: ug/L

Instrument: LCMS1
Prep Date: 05/23/2016 13:00
Cal Date: 05/03/2016 17:18
Run Date: 05/23/2016 15:52
File ID: 1LM.LM35061

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	1.28		0.400	0.200	0.100

Certificate of Analysis

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Sample #:	L16050763-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW28-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 23:44
Collect Date:	05/11/2016 11:20	**Dilution:**	1	**File ID:**	17M021279
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.137	J	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.207	J	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.0	85	115	
1,2-Dichloroethane-d4	105	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	104	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-04	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW28-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 16:10
Collect Date:	05/11/2016 11:20	**Dilution:**	1	**File ID:**	1LM.LM35062
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	1.12		0.400	0.200	0.100

Certificate of Analysis

Sample #:	L16050763-05	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW20-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 00:04
Collect Date:	05/11/2016 13:25	**Dilution:**	1	**File ID:**	17M021280
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	96.9	85	115	
1,2-Dichloroethane-d4	102	70	120	
Toluene-d8	104	85	120	
4-Bromofluorobenzene	108	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-05	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW20-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 16:29
Collect Date:	05/11/2016 13:25	**Dilution:**	1	**File ID:**	1LM.LM35063
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-06	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW05-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 00:24
Collect Date:	05/11/2016 14:25	**Dilution:**	1	**File ID:**	17M021281
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.139	J	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	1.33		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.67	J	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	27.2		1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.565	J	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	129		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	97.3	85	115	
1,2-Dichloroethane-d4	105	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	105	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-06	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW05-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 16:48
Collect Date:	05/11/2016 14:25	**Dilution:**	1	**File ID:**	1LM.LM35064
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.134	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW05FD-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 00:44
Collect Date:	05/11/2016 14:25	**Dilution:**	1	**File ID:**	17M021282
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.145	J	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	1.30		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.59	J	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	27.3		1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.555	J	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	128		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	96.1	85	115	
1,2-Dichloroethane-d4	104	70	120	
Toluene-d8	101	85	120	
4-Bromofluorobenzene	103	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-07	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW05FD-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 17:07
Collect Date:	05/11/2016 14:25	**Dilution:**	1	**File ID:**	1LM.LM35065
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.276	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-08	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW16-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569789	**Analyst:**	JDS	**Run Date:**	05/21/2016 18:00
Collect Date:	05/11/2016 15:25	**Dilution:**	1	**File ID:**	17M021306
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	Q	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.287	J	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	108	70	120	
Toluene-d8	105	85	120	
4-Bromofluorobenzene	107	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

Q	One or more quality control criteria failed. See narrative.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-08	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW16-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 18:23
Collect Date:	05/11/2016 15:25	**Dilution:**	1	**File ID:**	1LM.LM35069
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.101	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-09	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW01-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 01:23
Collect Date:	05/12/2016 07:20	**Dilution:**	1	**File ID:**	17M021284
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.670	J	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.810	J	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.5	85	115	
1,2-Dichloroethane-d4	109	70	120	
Toluene-d8	104	85	120	
4-Bromofluorobenzene	105	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-09	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW01-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 18:42
Collect Date:	05/12/2016 07:20	**Dilution:**	1	**File ID:**	1LM.LM35070
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-10	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW09-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 01:43
Collect Date:	05/12/2016 08:25	**Dilution:**	1	**File ID:**	17M021285
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.285	J	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.276	J	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.688	J	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	15.1		1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.452	J	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	154		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.0	85	115	
1,2-Dichloroethane-d4	107	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	105	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-10	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW09-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 19:01
Collect Date:	05/12/2016 08:25	**Dilution:**	1	**File ID:**	1LM.LM35071
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-11	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW10-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569789	**Analyst:**	JDS	**Run Date:**	05/21/2016 18:20
Collect Date:	05/12/2016 09:25	**Dilution:**	1	**File ID:**	17M021307
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	2.59	J	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	Q	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	0.821	J	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	107	85	115	
1,2-Dichloroethane-d4	107	70	120	
Toluene-d8	104	85	120	
4-Bromofluorobenzene	107	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

Q	One or more quality control criteria failed. See narrative.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-11	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW10-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 19:20
Collect Date:	05/12/2016 09:25	**Dilution:**	1	**File ID:**	1LM.LM35072
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-12	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW10FD-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 02:23
Collect Date:	05/12/2016 09:25	**Dilution:**	1	**File ID:**	17M021287
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	0.692	J	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.293	J	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	105	85	115	
1,2-Dichloroethane-d4	108	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	105	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-12	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW10FD-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 19:39
Collect Date:	05/12/2016 09:25	**Dilution:**	1	**File ID:**	1LM.LM35073
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-13	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW15-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 02:42
Collect Date:	05/12/2016 10:30	**Dilution:**	1	**File ID:**	17M021288
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	6.31		1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	1.86		1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	5.32		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	102	85	115	
1,2-Dichloroethane-d4	109	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	105	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-13	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW15-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 19:58
Collect Date:	05/12/2016 10:30	**Dilution:**	1	**File ID:**	1LM.LM35074
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-14	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW27-05126	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 23:25
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	17M021278
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.165	J	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.515	J	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.184	J	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.256	J	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	96.8	85	115	
1,2-Dichloroethane-d4	111	70	120	
Toluene-d8	99.7	85	120	
4-Bromofluorobenzene	101	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-14	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW27-05126	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 20:17
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	1LM.LM35075
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-15	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW27MS-05126	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 22:06
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	17M021274
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	24.0		10.0	5.00	2.50
Benzene	71-43-2	17.2		1.00	0.250	0.125
Bromobenzene	108-86-1	17.7		1.00	0.250	0.125
Bromochloromethane	74-97-5	18.2		1.00	0.400	0.200
Bromodichloromethane	75-27-4	18.4		1.00	0.500	0.250
Bromoform	75-25-2	18.3		2.00	1.00	0.500
Bromomethane	74-83-9	15.4		2.00	1.00	0.500
2-Butanone	78-93-3	21.8		10.0	5.00	2.50
n-Butylbenzene	104-51-8	16.7		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	17.0		1.00	0.500	0.250
tert-Butylbenzene	98-06-6	17.4		1.00	0.500	0.250
Carbon disulfide	75-15-0	17.3		2.00	1.00	0.500
Carbon tetrachloride	56-23-5	15.4		1.00	0.500	0.250
Chlorobenzene	108-90-7	17.9		1.00	0.250	0.125
Chlorodibromomethane	124-48-1	18.3		1.00	0.500	0.250
Chloroethane	75-00-3	14.2		2.00	1.00	0.500
Chloroform	67-66-3	17.2		1.00	0.250	0.125
Chloromethane	74-87-3	16.4		2.00	1.00	0.500
2-Chlorotoluene	95-49-8	17.8		1.00	0.250	0.125
4-Chlorotoluene	106-43-4	18.4		1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	22.3		5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	19.6		1.00	0.500	0.250
Dibromomethane	74-95-3	18.0		1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	18.4		1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	18.0		1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	17.6		1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	9.62		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	16.1		1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	18.7		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	13.7		2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	18.4		1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	16.2		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	18.2		1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	20.2		1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	15.0		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	20.0		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	19.0		2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	15.0		1.00	0.500	0.250
Ethylbenzene	100-41-4	17.2		1.00	0.500	0.250
2-Hexanone	591-78-6	21.7		10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	16.0		1.00	0.500	0.250
Isopropylbenzene	98-82-8	17.5		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	17.3		1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	22.0		10.0	5.00	2.50
Methylene chloride	75-09-2	17.2		1.00	0.500	0.250
Naphthalene	91-20-3	19.6		1.00	0.400	0.200
n-Propylbenzene	103-65-1	17.7		1.00	0.250	0.125
Styrene	100-42-5	18.7		1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	19.0		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	25.0		1.00	0.400	0.200
Tetrachloroethene	127-18-4	15.3		1.00	0.500	0.250
Toluene	108-88-3	17.2		1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	19.4		1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	18.9		1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	15.7		1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	19.3		1.00	0.500	0.250
Trichloroethene	79-01-6	15.6		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	12.9		1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	20.1		2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	17.8		1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	17.9		1.00	0.500	0.250
Vinyl chloride	75-01-4	14.8		1.00	0.500	0.250
o-Xylene	95-47-6	18.2		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	35.4		2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	103	85	115	
1,2-Dichloroethane-d4	102	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	103	75	120	

Certificate of Analysis

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Sample #:	L16050763-15	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW27MS-05126	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 20:36
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	1LM.LM35076
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.195	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-16	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW27MSD-05126	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 22:26
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	17M021275
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	24.3		10.0	5.00	2.50
Benzene	71-43-2	16.8		1.00	0.250	0.125
Bromobenzene	108-86-1	17.2		1.00	0.250	0.125
Bromochloromethane	74-97-5	17.7		1.00	0.400	0.200
Bromodichloromethane	75-27-4	17.7		1.00	0.500	0.250
Bromoform	75-25-2	17.7		2.00	1.00	0.500
Bromomethane	74-83-9	15.2		2.00	1.00	0.500
2-Butanone	78-93-3	21.0		10.0	5.00	2.50
n-Butylbenzene	104-51-8	16.5		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	16.7		1.00	0.500	0.250
tert-Butylbenzene	98-06-6	17.1		1.00	0.500	0.250
Carbon disulfide	75-15-0	17.0		2.00	1.00	0.500
Carbon tetrachloride	56-23-5	14.9		1.00	0.500	0.250
Chlorobenzene	108-90-7	17.5		1.00	0.250	0.125
Chlorodibromomethane	124-48-1	17.9		1.00	0.500	0.250
Chloroethane	75-00-3	13.6		2.00	1.00	0.500
Chloroform	67-66-3	16.7		1.00	0.250	0.125
Chloromethane	74-87-3	15.8		2.00	1.00	0.500
2-Chlorotoluene	95-49-8	17.3		1.00	0.250	0.125
4-Chlorotoluene	106-43-4	17.9		1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	21.5		5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	18.9		1.00	0.500	0.250
Dibromomethane	74-95-3	17.5		1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	17.9		1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	17.8		1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	17.2		1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	9.51		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	15.8		1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	18.0		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	13.4		2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	17.9		1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	16.3		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	17.9		1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	19.8		1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	14.5		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	19.5		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	18.7		2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	14.7		1.00	0.500	0.250
Ethylbenzene	100-41-4	16.7		1.00	0.500	0.250
2-Hexanone	591-78-6	21.3		10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	15.6		1.00	0.500	0.250
Isopropylbenzene	98-82-8	17.2		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	17.0		1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	21.2		10.0	5.00	2.50
Methylene chloride	75-09-2	16.3		1.00	0.500	0.250
Naphthalene	91-20-3	19.1		1.00	0.400	0.200
n-Propylbenzene	103-65-1	17.5		1.00	0.250	0.125
Styrene	100-42-5	18.3		1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	18.5		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	24.5		1.00	0.400	0.200
Tetrachloroethene	127-18-4	15.2		1.00	0.500	0.250
Toluene	108-88-3	16.9		1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	18.9		1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	18.3		1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	15.4		1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	18.9		1.00	0.500	0.250
Trichloroethene	79-01-6	15.3		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	12.6		1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	19.8		2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	17.4		1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	17.5		1.00	0.500	0.250
Vinyl chloride	75-01-4	14.4		1.00	0.500	0.250
o-Xylene	95-47-6	17.8		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	34.6		2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	104	85	115	
1,2-Dichloroethane-d4	104	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	104	75	120	

Certificate of Analysis

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Sample #:	L16050763-16	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW27MSD-05126	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 20:55
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	1LM.LM35077
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.195	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-17	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW21-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 03:02
Collect Date:	05/12/2016 14:40	**Dilution:**	1	**File ID:**	17M021289
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	100	85	115	
1,2-Dichloroethane-d4	108	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	105	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-17	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW21-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 22:29
Collect Date:	05/12/2016 14:40	**Dilution:**	1	**File ID:**	1LM.LM35082
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.398	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-18	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW21FD-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 03:22
Collect Date:	05/12/2016 14:40	**Dilution:**	1	**File ID:**	17M021290
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	3.09	J	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	100	85	115	
1,2-Dichloroethane-d4	104	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	102	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-18	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW21FD-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 22:48
Collect Date:	05/12/2016 14:40	**Dilution:**	1	**File ID:**	1LM.LM35083
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.418		0.400	0.200	0.100

Certificate of Analysis

Sample #:	L16050763-19	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	50WW26-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 19:26
Workgroup #:	WG569786	**Analyst:**	JDS	**Run Date:**	05/21/2016 16:48
Collect Date:	05/12/2016 15:35	**Dilution:**	1	**File ID:**	11M12025
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	116	85	115	*
1,2-Dichloroethane-d4	121	70	120	*
Toluene-d8	102	85	120	
4-Bromofluorobenzene	101	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-19	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW26-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 21:14
Collect Date:	05/12/2016 15:35	**Dilution:**	1	**File ID:**	1LM.LM35078
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-20	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	TRIP BLANK	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 19:26
Workgroup #:	WG569786	**Analyst:**	JDS	**Run Date:**	05/21/2016 15:12
Collect Date:	05/12/2016 00:01	**Dilution:**	1	**File ID:**	11M12022
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	Q	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	Q	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	Q	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	Q	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	113	85	115	
1,2-Dichloroethane-d4	118	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	102	75	120	

Q	One or more quality control criteria failed. See narrative.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

2.0 Full Sample Data Package

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW07-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 23:05
Collect Date:	05/11/2016 07:50	**Dilution:**	1	**File ID:**	17M021277
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.194	J	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.221	J	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.311	J	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.9	85	115	
1,2-Dichloroethane-d4	105	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	104	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-02	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW07MS-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 21:27
Collect Date:	05/11/2016 07:50	**Dilution:**	1	**File ID:**	17M021272
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	25.9		10.0	5.00	2.50
Benzene	71-43-2	18.2		1.00	0.250	0.125
Bromobenzene	108-86-1	18.5		1.00	0.250	0.125
Bromochloromethane	74-97-5	18.7		1.00	0.400	0.200
Bromodichloromethane	75-27-4	19.3		1.00	0.500	0.250
Bromoform	75-25-2	19.3		2.00	1.00	0.500
Bromomethane	74-83-9	16.7		2.00	1.00	0.500
2-Butanone	78-93-3	23.4		10.0	5.00	2.50
n-Butylbenzene	104-51-8	18.6		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	18.9		1.00	0.500	0.250
tert-Butylbenzene	98-06-6	19.1		1.00	0.500	0.250
Carbon disulfide	75-15-0	19.1		2.00	1.00	0.500
Carbon tetrachloride	56-23-5	17.4		1.00	0.500	0.250
Chlorobenzene	108-90-7	19.0		1.00	0.250	0.125
Chlorodibromomethane	124-48-1	19.3		1.00	0.500	0.250
Chloroethane	75-00-3	15.3		2.00	1.00	0.500
Chloroform	67-66-3	18.2		1.00	0.250	0.125
Chloromethane	74-87-3	18.1		2.00	1.00	0.500
2-Chlorotoluene	95-49-8	18.9		1.00	0.250	0.125
4-Chlorotoluene	106-43-4	19.3		1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	23.8		5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	20.5		1.00	0.500	0.250
Dibromomethane	74-95-3	18.8		1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	19.4		1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	19.1		1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	18.7		1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	12.3		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	17.2		1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	19.6		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	15.5		2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	18.9		1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	17.6		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	19.3		1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	21.1		1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	16.7		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	21.3		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	20.2		2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	16.9		1.00	0.500	0.250
Ethylbenzene	100-41-4	18.5		1.00	0.500	0.250
2-Hexanone	591-78-6	23.5		10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	19.1		1.00	0.500	0.250
Isopropylbenzene	98-82-8	19.1		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	18.9		1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	23.2		10.0	5.00	2.50
Methylene chloride	75-09-2	17.9		1.00	0.500	0.250
Naphthalene	91-20-3	20.6		1.00	0.400	0.200
n-Propylbenzene	103-65-1	19.3		1.00	0.250	0.125
Styrene	100-42-5	19.8		1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	20.0		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	26.6		1.00	0.400	0.200
Tetrachloroethene	127-18-4	17.1		1.00	0.500	0.250
Toluene	108-88-3	18.5		1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	20.7		1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	20.2		1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	17.4		1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	20.3		1.00	0.500	0.250
Trichloroethene	79-01-6	16.7		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	15.6		1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	21.4		2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	19.0		1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	19.1		1.00	0.500	0.250
Vinyl chloride	75-01-4	16.8		1.00	0.500	0.250
o-Xylene	95-47-6	19.5		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	38.2		2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	105	85	115	
1,2-Dichloroethane-d4	106	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	104	75	120	

Certificate of Analysis

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Sample #:	L16050763-03	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW07MSD-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 21:47
Collect Date:	05/11/2016 07:50	**Dilution:**	1	**File ID:**	17M021273
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	26.2		10.0	5.00	2.50
Benzene	71-43-2	17.6		1.00	0.250	0.125
Bromobenzene	108-86-1	18.3		1.00	0.250	0.125
Bromochloromethane	74-97-5	18.4		1.00	0.400	0.200
Bromodichloromethane	75-27-4	18.7		1.00	0.500	0.250
Bromoform	75-25-2	18.8		2.00	1.00	0.500
Bromomethane	74-83-9	15.8		2.00	1.00	0.500
2-Butanone	78-93-3	23.0		10.0	5.00	2.50
n-Butylbenzene	104-51-8	18.1		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	18.3		1.00	0.500	0.250
tert-Butylbenzene	98-06-6	18.4		1.00	0.500	0.250
Carbon disulfide	75-15-0	18.0		2.00	1.00	0.500
Carbon tetrachloride	56-23-5	16.3		1.00	0.500	0.250
Chlorobenzene	108-90-7	18.5		1.00	0.250	0.125
Chlorodibromomethane	124-48-1	18.9		1.00	0.500	0.250
Chloroethane	75-00-3	14.5		2.00	1.00	0.500
Chloroform	67-66-3	17.7		1.00	0.250	0.125
Chloromethane	74-87-3	16.9		2.00	1.00	0.500
2-Chlorotoluene	95-49-8	18.6		1.00	0.250	0.125
4-Chlorotoluene	106-43-4	19.1		1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	23.9		5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	20.0		1.00	0.500	0.250
Dibromomethane	74-95-3	18.4		1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	19.1		1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	18.8		1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	18.3		1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	11.2		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	16.7		1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	19.1		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	14.6		2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	18.5		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	16.7		1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloropropane	78-87-5	18.7		1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	20.7		1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	15.7		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	20.6		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	19.6		2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	16.0		1.00	0.500	0.250
Ethylbenzene	100-41-4	17.7		1.00	0.500	0.250
2-Hexanone	591-78-6	23.0		10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	18.7		1.00	0.500	0.250
Isopropylbenzene	98-82-8	18.4		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	18.7		1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	22.8		10.0	5.00	2.50
Methylene chloride	75-09-2	17.4		1.00	0.500	0.250
Naphthalene	91-20-3	20.4		1.00	0.400	0.200
n-Propylbenzene	103-65-1	18.8		1.00	0.250	0.125
Styrene	100-42-5	19.3		1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	19.4		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	26.3		1.00	0.400	0.200
Tetrachloroethene	127-18-4	16.4		1.00	0.500	0.250
Toluene	108-88-3	18.0		1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	20.6		1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	19.9		1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	16.7		1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	19.9		1.00	0.500	0.250
Trichloroethene	79-01-6	16.2		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	14.4		1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	21.0		2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	18.6		1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	18.7		1.00	0.500	0.250
Vinyl chloride	75-01-4	15.6		1.00	0.500	0.250
o-Xylene	95-47-6	19.1		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	36.9		2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	105	85	115	
1,2-Dichloroethane-d4	105	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	105	75	120	

Certificate of Analysis

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Sample #:	L16050763-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW28-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 23:44
Collect Date:	05/11/2016 11:20	**Dilution:**	1	**File ID:**	17M021279
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.137	J	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.207	J	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.0	85	115	
1,2-Dichloroethane-d4	105	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	104	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-05	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW20-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 00:04
Collect Date:	05/11/2016 13:25	**Dilution:**	1	**File ID:**	17M021280
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	96.9	85	115	
1,2-Dichloroethane-d4	102	70	120	
Toluene-d8	104	85	120	
4-Bromofluorobenzene	108	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-06	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW05-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 00:24
Collect Date:	05/11/2016 14:25	**Dilution:**	1	**File ID:**	17M021281
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.139	J	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	1.33		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.67	J	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	27.2		1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.565	J	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	129		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	97.3	85	115	
1,2-Dichloroethane-d4	105	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	105	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW05FD-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 00:44
Collect Date:	05/11/2016 14:25	**Dilution:**	1	**File ID:**	17M021282
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.145	J	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	1.30		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.59	J	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	27.3		1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.555	J	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	128		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	96.1	85	115	
1,2-Dichloroethane-d4	104	70	120	
Toluene-d8	101	85	120	
4-Bromofluorobenzene	103	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-08	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW16-051116	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569789	**Analyst:**	JDS	**Run Date:**	05/21/2016 18:00
Collect Date:	05/11/2016 15:25	**Dilution:**	1	**File ID:**	17M021306
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	Q	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.287	J	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	108	70	120	
Toluene-d8	105	85	120	
4-Bromofluorobenzene	107	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

Q	One or more quality control criteria failed. See narrative.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-09	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW01-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 01:23
Collect Date:	05/12/2016 07:20	**Dilution:**	1	**File ID:**	17M021284
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.670	J	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.810	J	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.5	85	115	
1,2-Dichloroethane-d4	109	70	120	
Toluene-d8	104	85	120	
4-Bromofluorobenzene	105	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-10	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW09-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 01:43
Collect Date:	05/12/2016 08:25	**Dilution:**	1	**File ID:**	17M021285
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.285	J	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.276	J	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.688	J	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	15.1		1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.452	J	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	154		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.0	85	115	
1,2-Dichloroethane-d4	107	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	105	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-11	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW10-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569789	**Analyst:**	JDS	**Run Date:**	05/21/2016 18:20
Collect Date:	05/12/2016 09:25	**Dilution:**	1	**File ID:**	17M021307
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	2.59	J	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	Q	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	0.821	J	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	107	85	115	
1,2-Dichloroethane-d4	107	70	120	
Toluene-d8	104	85	120	
4-Bromofluorobenzene	107	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

Q	One or more quality control criteria failed. See narrative.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-12	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW10FD-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 02:23
Collect Date:	05/12/2016 09:25	**Dilution:**	1	**File ID:**	17M021287
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	0.692	J	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.293	J	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	105	85	115	
1,2-Dichloroethane-d4	108	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	105	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-13	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW15-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 02:42
Collect Date:	05/12/2016 10:30	**Dilution:**	1	**File ID:**	17M021288
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	6.31		1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	1.86		1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	5.32		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	102	85	115	
1,2-Dichloroethane-d4	109	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	105	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-14	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW27-05126	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 23:25
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	17M021278
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.165	J	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.515	J	1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.184	J	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.256	J	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	96.8	85	115	
1,2-Dichloroethane-d4	111	70	120	
Toluene-d8	99.7	85	120	
4-Bromofluorobenzene	101	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-15	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW27MS-05126	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 22:06
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	17M021274
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	24.0		10.0	5.00	2.50
Benzene	71-43-2	17.2		1.00	0.250	0.125
Bromobenzene	108-86-1	17.7		1.00	0.250	0.125
Bromochloromethane	74-97-5	18.2		1.00	0.400	0.200
Bromodichloromethane	75-27-4	18.4		1.00	0.500	0.250
Bromoform	75-25-2	18.3		2.00	1.00	0.500
Bromomethane	74-83-9	15.4		2.00	1.00	0.500
2-Butanone	78-93-3	21.8		10.0	5.00	2.50
n-Butylbenzene	104-51-8	16.7		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	17.0		1.00	0.500	0.250
tert-Butylbenzene	98-06-6	17.4		1.00	0.500	0.250
Carbon disulfide	75-15-0	17.3		2.00	1.00	0.500
Carbon tetrachloride	56-23-5	15.4		1.00	0.500	0.250
Chlorobenzene	108-90-7	17.9		1.00	0.250	0.125
Chlorodibromomethane	124-48-1	18.3		1.00	0.500	0.250
Chloroethane	75-00-3	14.2		2.00	1.00	0.500
Chloroform	67-66-3	17.2		1.00	0.250	0.125
Chloromethane	74-87-3	16.4		2.00	1.00	0.500
2-Chlorotoluene	95-49-8	17.8		1.00	0.250	0.125
4-Chlorotoluene	106-43-4	18.4		1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	22.3		5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	19.6		1.00	0.500	0.250
Dibromomethane	74-95-3	18.0		1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	18.4		1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	18.0		1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	17.6		1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	9.62		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	16.1		1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	18.7		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	13.7		2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	18.4		1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	16.2		1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	18.2		1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	20.2		1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	15.0		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	20.0		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	19.0		2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	15.0		1.00	0.500	0.250
Ethylbenzene	100-41-4	17.2		1.00	0.500	0.250
2-Hexanone	591-78-6	21.7		10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	16.0		1.00	0.500	0.250
Isopropylbenzene	98-82-8	17.5		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	17.3		1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	22.0		10.0	5.00	2.50
Methylene chloride	75-09-2	17.2		1.00	0.500	0.250
Naphthalene	91-20-3	19.6		1.00	0.400	0.200
n-Propylbenzene	103-65-1	17.7		1.00	0.250	0.125
Styrene	100-42-5	18.7		1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	19.0		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	25.0		1.00	0.400	0.200
Tetrachloroethene	127-18-4	15.3		1.00	0.500	0.250
Toluene	108-88-3	17.2		1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	19.4		1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	18.9		1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	15.7		1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	19.3		1.00	0.500	0.250
Trichloroethene	79-01-6	15.6		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	12.9		1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	20.1		2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	17.8		1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	17.9		1.00	0.500	0.250
Vinyl chloride	75-01-4	14.8		1.00	0.500	0.250
o-Xylene	95-47-6	18.2		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	35.4		2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	103	85	115	
1,2-Dichloroethane-d4	102	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	103	75	120	

Certificate of Analysis

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Sample #:	L16050763-16	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW27MSD-05126	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/20/2016 22:26
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	17M021275
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	24.3		10.0	5.00	2.50
Benzene	71-43-2	16.8		1.00	0.250	0.125
Bromobenzene	108-86-1	17.2		1.00	0.250	0.125
Bromochloromethane	74-97-5	17.7		1.00	0.400	0.200
Bromodichloromethane	75-27-4	17.7		1.00	0.500	0.250
Bromoform	75-25-2	17.7		2.00	1.00	0.500
Bromomethane	74-83-9	15.2		2.00	1.00	0.500
2-Butanone	78-93-3	21.0		10.0	5.00	2.50
n-Butylbenzene	104-51-8	16.5		1.00	0.500	0.250
sec-Butylbenzene	135-98-8	16.7		1.00	0.500	0.250
tert-Butylbenzene	98-06-6	17.1		1.00	0.500	0.250
Carbon disulfide	75-15-0	17.0		2.00	1.00	0.500
Carbon tetrachloride	56-23-5	14.9		1.00	0.500	0.250
Chlorobenzene	108-90-7	17.5		1.00	0.250	0.125
Chlorodibromomethane	124-48-1	17.9		1.00	0.500	0.250
Chloroethane	75-00-3	13.6		2.00	1.00	0.500
Chloroform	67-66-3	16.7		1.00	0.250	0.125
Chloromethane	74-87-3	15.8		2.00	1.00	0.500
2-Chlorotoluene	95-49-8	17.3		1.00	0.250	0.125
4-Chlorotoluene	106-43-4	17.9		1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	21.5		5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	18.9		1.00	0.500	0.250
Dibromomethane	74-95-3	17.5		1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	17.9		1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	17.8		1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	17.2		1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	9.51		1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	15.8		1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	18.0		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	13.4		2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	17.9		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	16.3		1.00	0.500	0.250

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Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloropropane	78-87-5	17.9		1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	19.8		1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	14.5		1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	19.5		1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	18.7		2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	14.7		1.00	0.500	0.250
Ethylbenzene	100-41-4	16.7		1.00	0.500	0.250
2-Hexanone	591-78-6	21.3		10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	15.6		1.00	0.500	0.250
Isopropylbenzene	98-82-8	17.2		1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	17.0		1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	21.2		10.0	5.00	2.50
Methylene chloride	75-09-2	16.3		1.00	0.500	0.250
Naphthalene	91-20-3	19.1		1.00	0.400	0.200
n-Propylbenzene	103-65-1	17.5		1.00	0.250	0.125
Styrene	100-42-5	18.3		1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	18.5		1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	24.5		1.00	0.400	0.200
Tetrachloroethene	127-18-4	15.2		1.00	0.500	0.250
Toluene	108-88-3	16.9		1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	18.9		1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	18.3		1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	15.4		1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	18.9		1.00	0.500	0.250
Trichloroethene	79-01-6	15.3		1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	12.6		1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	19.8		2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	17.4		1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	17.5		1.00	0.500	0.250
Vinyl chloride	75-01-4	14.4		1.00	0.500	0.250
o-Xylene	95-47-6	17.8		1.00	0.500	0.250
m-,p-Xylene	179601-23-1	34.6		2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	104	85	115	
1,2-Dichloroethane-d4	104	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	104	75	120	

Certificate of Analysis

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Sample #:	L16050763-17	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW21-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 03:02
Collect Date:	05/12/2016 14:40	**Dilution:**	1	**File ID:**	17M021289
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	100	85	115	
1,2-Dichloroethane-d4	108	70	120	
Toluene-d8	102	85	120	
4-Bromofluorobenzene	105	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-18	**PrePrep Method:**	N/A	**Instrument:**	HPMS17
Client ID:	50WW21FD-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/20/2016 19:29
Workgroup #:	WG569773	**Analyst:**	ADC	**Run Date:**	05/21/2016 03:22
Collect Date:	05/12/2016 14:40	**Dilution:**	1	**File ID:**	17M021290
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	3.09	J	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	100	85	115	
1,2-Dichloroethane-d4	104	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	102	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-19	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	50WW26-051216	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 19:26
Workgroup #:	WG569786	**Analyst:**	JDS	**Run Date:**	05/21/2016 16:48
Collect Date:	05/12/2016 15:35	**Dilution:**	1	**File ID:**	11M12025
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	116	85	115	*
1,2-Dichloroethane-d4	121	70	120	*
Toluene-d8	102	85	120	
4-Bromofluorobenzene	101	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-20	**PrePrep Method:**	N/A	**Instrument:**	HPMS11
Client ID:	TRIP BLANK	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 19:26
Workgroup #:	WG569786	**Analyst:**	JDS	**Run Date:**	05/21/2016 15:12
Collect Date:	05/12/2016 00:01	**Dilution:**	1	**File ID:**	11M12022
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	Q	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	Q	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	Q	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	Q	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	113	85	115	
1,2-Dichloroethane-d4	118	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	102	75	120	

Q	One or more quality control criteria failed. See narrative.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

Dry weight correction:

Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 061415
Analyst1: TMB Analyst2: DLW
Method: 8260B SOP: MSV01 Rev: 22
Method: 624 SOP: MSV10 Rev: 13
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID:

Internal Standard: STD70890 Surrogate Standard: STD70872
CCV: STD70883 LCS: STD70514 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG527475

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M08234	WG527475-01 50ng BFB STD	NA	1	1	STD70707	06/14/15 09:34
11M08235	WG527475-02 5ug/L STD8260	NA	1	1	STD70883	06/14/15 09:58
11M08236	WG527475-03 20ug/L STD8260	NA	1	1	STD70883	06/14/15 10:30
11M08237	WG527475-04 50ug/L STD8260	NA	1	1	STD70883	06/14/15 11:02
11M08238	WG527475-05 100ug/L STD8260	NA	1	1	STD70883	06/14/15 11:34
11M08239	WG527475-06 200ug/L STD8260	NA	1	1	STD70883	06/14/15 12:06
11M08240	WG527475-07 300ug/L STD8260	NA	1	1	STD70883	06/14/15 12:38
11M08241	WG527475-08 400ug/L STD8260	NA	1	1	STD70883	06/14/15 13:10
11M08242	WG527475-09 500ug/L STD8260	NA	1	1	STD70883	06/14/15 13:42
11M08243	RINSE	NA	1	1		06/14/15 14:14
11M08244	RINSE	NA	1	1		06/14/15 14:46
11M08245	WG527475-10 100ug/L ALT STD8260	NA	1	1	STD70514	06/14/15 15:18

Approved: September 15, 2015

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 051316
Analyst1: JDS Analyst2: NA
Method: 8260B SOP: MSV01 / OVAP MSV01 Rev: 23 / 0
Method: 5030B/5030C/5035A SOP: PAT01 / OVAP PAT01 Rev: 18 / 0
Method: 624 SOP: MSV10 Rev: 14
Maintenance Log ID:

Internal Standard: STD76110 Surrogate Standard: STD75929
CCV: STD76127 LCS: STD76109 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG568769

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M11835	RINSE	NA	1	1		05/13/16 11:59
11M11836	WG568769-01 50ng BFB STD 8260	NA	1	1	STD76034	05/13/16 14:15
11M11837	WG568769-02 0.3ug/L ICAL STD 8260	NA	1	1	STD76127	05/13/16 14:40
11M11838	WG568769-03 0.4ug/L ICAL STD 8260	NA	1	1	STD76127	05/13/16 15:12
11M11839	WG568769-04 1.0ug/L ICAL STD 8260	NA	1	1	STD76127	05/13/16 15:43
11M11840	WG568769-05 2.0ug/L ICAL STD 8260	NA	1	1	STD76127	05/13/16 16:15
11M11841	WG568769-06 5.0ug/L ICAL STD 8260	NA	1	1	STD76127	05/13/16 16:47
11M11842	WG568769-07 20ug/L ICAL STD 8260	NA	1	1	STD76127	05/13/16 17:19
11M11843	WG568769-08 50ug/L ICAL STD 8260	NA	1	1	STD76127	05/13/16 17:51
11M11844	WG568769-09 100ug/L ICAL STD 8260	NA	1	1	STD76127	05/13/16 18:22
11M11845	WG568769-10 200ug/L ICAL STD 8260	NA	1	1	STD76127	05/13/16 18:54
11M11846	WG568769-11 300ug/L ICAL STD 8260	NA	1	1	STD76127	05/13/16 19:26
11M11847	RINSE	NA	1	1		05/13/16 19:58
11M11848	WG568769-12 50ug/L ALT SRC STD 8260	NA	1	1	STD76109	05/13/16 20:30
11M11849	RINSE	NA	1	1		05/13/16 21:02
11M11850	RINSE	NA	1	1		05/13/16 21:34

Approved: May 23, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS17 Dataset: 052016
Analyst1: ADC Analyst2: NA
Method: 8260 SOP: MSV01 Rev: 23
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Method: 624 SOP: MSV10 Rev: 14
Maintenance Log ID:

Internal Standard: STD76222 Surrogate Standard: STD76221
CCV: STD76229 LCS: STD75977 MS/MSD: STD75977

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG569773, WG569734 (ICAL)

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M021253	WG569734-01 50ng BFB STD 8260	NA	1	1	STD76034	05/20/16 15:24
17M021254	WG569734-01 50ng BFB STD 8260	NA	1	1	STD76034	05/20/16 15:35
17M021255	RINSE	NA	1	1		05/20/16 15:53
17M021256	WG569734-02 50ug/L CCV STD 8260	NA	1	1	STD76229	05/20/16 16:13
17M021257	RINSE	NA	1	1		05/20/16 16:33
17M021258	WG569734-03 0.3ug/L STD 8260	NA	1	1	STD76229	05/20/16 16:52
17M021259	WG569734-04 0.4ug/L STD 8260	NA	1	1	STD76229	05/20/16 17:12
17M021260	WG569734-05 1.0ug/L STD 8260	NA	1	1	STD76229	05/20/16 17:31
17M021261	WG569734-06 2.0ug/L STD 8260	NA	1	1	STD76229	05/20/16 17:51
17M021262	WG569734-07 5.0ug/L STD 8260	NA	1	1	STD76229	05/20/16 18:10
17M021263	WG569734-08 20.0ug/L STD 8260	NA	1	1	STD76229	05/20/16 18:30
17M021264	WG569734-09 100.0ug/L STD 8260	NA	1	1	STD76229	05/20/16 18:50
17M021265	WG569734-10 200.0ug/L STD 8260	NA	1	1	STD76229	05/20/16 19:09
17M021266	WG569734-11 300.0ug/L STD 8260	NA	1	1	STD76229	05/20/16 19:29
17M021267	RINSE	NA	1	1		05/20/16 19:49
17M021268	WG569734-12 50.0ug/L ALT 8260	NA	1	1	STD75977	05/20/16 20:08
17M021269	rinse	NA	1	1		05/20/16 20:28
17M021270	WG569773-01 BLK 8260	NA	1	1		05/20/16 20:48
17M021271	WG569773-02 20ug/L LCS 8260	NA	1	1	STD75977	05/20/16 21:07
17M021272	L16050763-02 A MS 826-LOW	<2	1	1	STD75977	05/20/16 21:27
17M021273	L16050763-03 A MSD 826-LOW	<2	1	1	STD75977	05/20/16 21:47
17M021274	L16050763-15 A MS 826-LOW	<2	1	1	STD75977	05/20/16 22:06
17M021275	L16050763-16 A MSD 826-LOW	<2	1	1	STD75977	05/20/16 22:26
17M021276	RINSE	NA	1	1		05/20/16 22:45
17M021277	L16050763-01 A RS 826-LOW	<2	1	1		05/20/16 23:05
17M021278	L16050763-14 A RS 826-LOW	<2	1	1		05/20/16 23:25
17M021279	L16050763-04 A 826-LOW	<2	1	1		05/20/16 23:44
17M021280	L16050763-05 A 826-LOW	<2	1	1		05/21/16 00:04
17M021281	L16050763-06 A 826-LOW	<2	1	1		05/21/16 00:24
17M021282	L16050763-07 A 826-LOW	<2	1	1		05/21/16 00:44
17M021283	L16050763-08 A 826-LOW	<2	1	1		05/21/16 01:03
17M021284	L16050763-09 A 826-LOW	<2	1	1		05/21/16 01:23
17M021285	L16050763-10 A 826-LOW	<2	1	1		05/21/16 01:43
17M021286	L16050763-11 A 826-LOW	<2	1	1		05/21/16 02:03

Approved: May 23, 2016
Sarah Vandenberg

Microbac

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS17 Dataset: 052016
Analyst1: ADC Analyst2: NA
Method: 8260 SOP: MSV01 Rev: 23
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Method: 624 SOP: MSV10 Rev: 14
Maintenance Log ID:

Internal Standard: STD76222 Surrogate Standard: STD76221
CCV: STD76229 LCS: STD75977 MS/MSD: STD75977

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG569773, WG569734 (ICAL)

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M021287	L16050763-12 A 826-LOW	<2	1	1		05/21/16 02:23
17M021288	L16050763-13 A 826-LOW	<2	1	1		05/21/16 02:42
17M021289	L16050763-17 A 826-LOW	<2	1	1		05/21/16 03:02
17M021290	L16050763-18 A 826-LOW	<2	1	1		05/21/16 03:22
17M021291	RINSE	NA	1	1		05/21/16 03:42
17M021292	RINSE	NA	1	1		05/21/16 04:02
17M021293	RINSE	NA	1	1		05/21/16 04:21

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1				
File ID: 17M021253				
	WG569734-01 fails. RR.			
31	X		Carry-over contamination	tce
File ID: 17M021283				
	L16050763-08			
34	X		Carry-over contamination	tce
File ID: 17M021286				
	L16050763-11			

Approved: May 23, 2016
Sarah Vandenberg

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS11 Dataset: 052116
Analyst1: JDS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 24
Method: 624 SOP: MSV10 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID: 53762

Internal Standard: STD76110 Surrogate Standard: STD75929
CCV: STD76227 LCS: STD76207 MS/MSD: STD76207

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG569786

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
11M12015A	WG569785-01 50ng BFB STD 8260	NA	1	1	STD76034	05/21/16 11:36
11M12016	WG569785-02 50ug/L CCV STD 8260	NA	1	1	STD76227	05/21/16 12:00
11M12017	WGXXXXXX-01 50ug/L A9-CCV STD 8260	NA	1	1	STDXXXXX	05/21/16 12:33
11M12018	WG569786-01 BLANK STD 8260	NA	1	1		05/21/16 13:05
11M12019	WG569786-02 20ug/L LCS STD 8260	NA	1	1	STD76207	05/21/16 13:37
11M12020	L16050807-01 A TB 826-SPE	<2	1	1		05/21/16 14:09
11M12021	L16051005-02 A TB 826-SPE	5	1	1		05/21/16 14:41
11M12022	L16050763-20 A TB 826-LOW	<2	1	1		05/21/16 15:12
11M12023	L16050767-26 TB A 826-SPE	<2	1	1		05/21/16 15:44
11M12024	L16050767-25 EB A 826-SPE	<2	1	1		05/21/16 16:16
11M12025	L16050763-19 A 826-LOW	<2	1	1		05/21/16 16:48
11M12026	L16050767-22 A 826-SPE	<2	1	1		05/21/16 17:20
11M12027	L16050767-23 A 826-SPE	<2	1	1		05/21/16 17:52
11M12028	L16050767-24 A 826-SPE	<2	1	1		05/21/16 18:24
11M12029	L16051005-01 A 826-SPE	7	1	1		05/21/16 18:55
11M12030	L16051007-01 A 826-SPE	7	1	1		05/21/16 19:27
11M12031	L16050807-02 A 826-SPE	<2	1	1		05/21/16 19:59
11M12032	L16050807-05 200X MS A 826-SPE	<2	1	200	STD76207	05/21/16 20:31
11M12033	L16050807-06 200X MSD A 826-SPE	<2	1	200	STD76207	05/21/16 21:03
11M12034	L16050807-04 200X REF A 826-SPE	<2	1	200		05/21/16 21:35
11M12035	L16050807-03 50X A 826-SPE	<2	1	50		05/21/16 22:07
11M12036	L16050807-07 100X A 826-SPE	<2	1	100		05/21/16 22:39
11M12037	L16050807-08 500X A 826-SPE	<2	1	500		05/21/16 23:11
11M12038	L16050807-09 200X A 826-SPE	<2	1	200		05/21/16 23:42
11M12039	CCV	NA	1	1		05/22/16 00:14
11M12040	RINSE	NA	1	1		05/22/16 00:46
11M12041	RINSE	NA	1	1		05/22/16 01:18

Comments

Seq.	Rerun	Dil.	Reason	Analytes
34				
File ID: 11M12021				
L16051005-02 Also reported as L16051007-02				

Approved: May 25, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument:	HPMS11	Dataset:	052116		
Analyst1:	JDS	Analyst2:	NA		
Method:	8260B	SOP:	MSV01	Rev:	24
Method:	624	SOP:	MSV10	Rev:	14
Method:	5030B/5030C/5035A	SOP:	PAT01	Rev:	18
Maintenance Log ID:	53762				

Internal Standard: STD76110 Surrogate Standard: STD75929

CCV: STD76227 LCS: STD76207 MS/MSD: STD76207

Column 1 ID: RTX502.2 Column 2 ID: NA

Workgroups: WG569786

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
11	X		Surrogate standard failure	
File ID: 11M12025				
	L16050763-19			
36				
File ID: 11M12033				
	L16050807-06 MSD had multiple surrogate failures			

Approved: May 25, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS17 Dataset: 052116
Analyst1: ADC Analyst2: NA
Method: 8260 SOP: MSV01 Rev: 23
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Method: 624 SOP: MSV10 Rev: 14
Maintenance Log ID:

Internal Standard: STD76222 Surrogate Standard: STD76221
CCV: STD76229 LCS: STD75977 MS/MSD: STD75977

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG569789, WG569790

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M021294	WG569788-01 50ng BFB STD 8260	NA	1	1	STD76034	05/21/16 13:56
17M021296	WG569788-02 50ug/L CCV STD 8260	NA	1	1	STD76229	05/21/16 14:41
17M021297	RINSE	NA	1	1		05/21/16 15:03
17M021298	WG569789-01 BLK 8260	NA	1	1		05/21/16 15:23
17M021299	WG569734-13 50.0ug/L ALT 8260	NA	1	1	STD75977	05/21/16 15:42
17M021300	WG569789-02 20ug/L LCS 8260	NA	1	1	STD75977	05/21/16 16:02
17M021301	L16050674-08 B MS 826-SPE	<2	1	1	STD75977	05/21/16 16:21
17M021302	L16050674-09 B MSD 826-SPE	<2	1	1	STD75977	05/21/16 16:41
17M021303	L16050674-02 B TB 826-SPE	<2	1	1		05/21/16 17:01
17M021304	L16050900-03 A 826-SPE	<2	1	1		05/21/16 17:20
17M021305	L16050765-05 A 826-SPE	<2	1	1		05/21/16 17:40
17M021306	L16050763-08 B A1 826-LOW	<2	1	1		05/21/16 18:00
17M021307	L16050763-11 B A1 826-LOW	<2	1	1		05/21/16 18:20
17M021308	L16050674-07 B REF 826-SPE	<2	1	1		05/21/16 18:39
17M021309	L16050674-01 B 826-SPE	<2	1	1		05/21/16 18:59
17M021310	L16050674-03 B 826-SPE	<2	1	1		05/21/16 19:19
17M021311	L16050674-04 B 826-SPE	<2	1	1		05/21/16 19:39
17M021312	L16050674-05 B 826-SPE	<2	1	1		05/21/16 19:58
17M021313	L16050674-06 B 826-SPE	<2	1	1		05/21/16 20:18
17M021314	L16050674-10 B 826-SPE	<2	1	1		05/21/16 20:38
17M021315	L16050765-01 A 826-SPE	<2	1	1		05/21/16 20:57
17M021316	L16050765-02 A 826-SPE	<2	1	1		05/21/16 21:17
17M021317	L16050765-03 A 826-SPE	<2	1	1		05/21/16 21:37
17M021318	L16050765-04 A 826-SPE	<2	1	1		05/21/16 21:56
17M021319	L16050900-02 A 826-SPE	<2	1	1		05/21/16 22:16
17M021320	L16050900-01 A AF 826-SPE	<2	1	1		05/21/16 22:36
17M021321	AF RINSE	NA	1	1		05/21/16 22:55
17M021322	WG569790-01 20ug/L LCS 624	NA	2	1	STD75977	05/21/16 23:15
17M021323	WG569790-02 20ug/L LCS2 624	NA	2	1	STD75977	05/21/16 23:35
17M021324	RINSE	NA	2	1		05/21/16 23:54
17M021325	WG569790-03 BLANK STD 624	NA	2	1		05/22/16 00:14
17M021326	L16051084-02 B D1 10X 624-SPE	<2	2	10		05/22/16 00:34
17M021327	RINSE	NA	2	1		05/22/16 00:54
17M021328	L16051084-03 B A1 624-SPE	<2	2	1		05/22/16 01:14

Approved: May 24, 2016
Sarah Vandenberg

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS17 Dataset: 052116
Analyst1: ADC Analyst2: NA
Method: 8260 SOP: MSV01 Rev: 23
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Method: 624 SOP: MSV10 Rev: 14
Maintenance Log ID:

Internal Standard: STD76222 Surrogate Standard: STD76221
CCV: STD76229 LCS: STD75977 MS/MSD: STD75977

Column 1 ID: RTX-VMS Column 2 ID: NA
Workgroups: WG569789, WG569790

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
17M021329	L16051085-02 B A1 624-SPE	<2	2	1		05/22/16 01:34
17M021330	L16051149-01 A 624-SPE	6	2	1		05/22/16 01:54
17M021331	L16051149-02 A 624-SPE	6	2	1		05/22/16 02:14
17M021332	L16051150-01 A 624-SPE	6	2	1		05/22/16 02:33
17M021333	L16051149-04 A 624-SPE	6	2	1		05/22/16 02:53
17M021334	L16051149-03 A 624-SPE	6	2	1		05/22/16 03:13
17M021335	CCV	NA	2	1		05/22/16 03:33
17M021336	RINSE	NA	2	1		05/22/16 03:53
17M021337	RINSE	NA	2	1		05/22/16 04:13

Approved: May 24, 2016
Sarah Vandenberg

Page: 2

Microbac Laboratories Inc.

Data Checklist

Date: 14-JUN-2015
Analyst: TMB
Analyst: DLW
Method: 8260B/624
Instrument: HPMS11
Curve Workgroup: NA
Runlog ID: 69930
Analytical Workgroups: WG527475

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	FJB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
20-AUG-2015
Tiffany Bailey

Secondary Reviewer:
15-SEP-2015

CHECKLIST1 - Modified 03/05/2008
Generated: SEP-15-2015 14:33:53

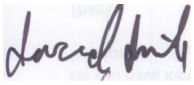
Microbac Laboratories Inc.

Data Checklist

Date: 13-MAY-2016
Analyst: JDS
Analyst: NA
Method: 8260B
Instrument: HPMS11
Curve Workgroup: NA
Runlog ID: 75133
Analytical Workgroups: WG568769

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	X
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	JDS
Secondary Reviewer	FJB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
23-MAY-2016



Secondary Reviewer:
23-MAY-2016

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-23-2016 15:39:32

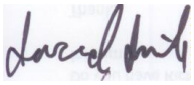
Microbac Laboratories Inc.

Data Checklist

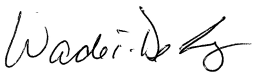
Date: 21-MAY-2016
Analyst: JDS
Analyst: NA
Method: 8260B/624
Instrument: HPMS11
Curve Workgroup: NA
Runlog ID: 75272
Analytical Workgroups: WG569786

System Performance Check	X
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	JDS
Surrogates	X
Internal Standards Criteria	X
Library Searches	X
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	NA
Manual Integrations	X
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	JDS
Secondary Reviewer	WTD
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
25-MAY-2016



Secondary Reviewer:
25-MAY-2016



CHECKLIST1 - Modified 03/05/2008
Generated: MAY-25-2016 15:31:50

Microbac Laboratories Inc.

Data Checklist

Date: 21-MAY-2016
Analyst: ADC
Analyst: NA
Method: 8260
Instrument: HPMS17
Curve Workgroup: NA
Runlog ID: 75263
Analytical Workgroups: WG569789, WG569790

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	ADC
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	ADC
Secondary Reviewer	SAV
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
24-MAY-2016

Secondary Reviewer:
24-MAY-2016

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-24-2016 13:25:37

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B AAB#: WG569773

Login Number: L16050763

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
50WW07-051116	01	05/11/16					05/20/2016	9.6	14		05/20/16	9.6	14	
50WW07MS-051116	02	05/11/16					05/20/2016	9.6	14		05/20/16	9.6	14	
50WW07MSD-051116	03	05/11/16					05/20/2016	9.6	14		05/20/16	9.6	14	
50WW28-051116	04	05/11/16					05/20/2016	9.5	14		05/20/16	9.5	14	
50WW20-051116	05	05/11/16					05/21/2016	9.4	14		05/21/16	9.4	14	
50WW05-051116	06	05/11/16					05/21/2016	9.4	14		05/21/16	9.4	14	
50WW05FD-051116	07	05/11/16					05/21/2016	9.4	14		05/21/16	9.4	14	
50WW01-051216	09	05/12/16					05/21/2016	8.8	14		05/21/16	8.8	14	
50WW09-051216	10	05/12/16					05/21/2016	8.7	14		05/21/16	8.7	14	
50WW10FD-051216	12	05/12/16					05/21/2016	8.7	14		05/21/16	8.7	14	
50WW15-051216	13	05/12/16					05/21/2016	8.7	14		05/21/16	8.7	14	
50WW27-05126	14	05/12/16					05/20/2016	8.4	14		05/20/16	8.4	14	
50WW27MS-05126	15	05/12/16					05/20/2016	8.4	14		05/20/16	8.4	14	
50WW27MSD-05126	16	05/12/16					05/20/2016	8.4	14		05/20/16	8.4	14	
50WW21-051216	17	05/12/16					05/21/2016	8.5	14		05/21/16	8.5	14	
50WW21FD-051216	18	05/12/16					05/21/2016	8.5	14		05/21/16	8.5	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4775577
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG569786

Login Number: L16050763

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
50WW26-051216	19	05/12/16					05/21/2016	9.1	14		05/21/16	9.1	14	
TRIP BLANK	20	05/12/16					05/21/2016	9.6	14		05/21/16	9.6	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4775577
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG569789

Login Number: L16050763

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
50WW16-051116	08	05/11/16					05/21/2016	10.1	14		05/21/16	10.1	14	
50WW10-051216	11	05/12/16					05/21/2016	9.4	14		05/21/16	9.4	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4775577
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L16050763
Instrument Id: HPMS17
Workgroup (AAB#): WG569789

Method: 8260
CAL ID: HPMS17-20-MAY-16
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L16050763-08	1.00	01	108	101	107	105
L16050763-11	1.00	01	107	107	107	104
WG569789-01	1.00	01	105	99.3	105	105
WG569789-02	1.00	01	103	105	105	103

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 4775589
Report generated: 05/26/2016 09:47

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L16050763
Instrument Id: HPMS11
Workgroup (AAB#): WG569786

Method: 8260
CAL ID: HPMS11-13-MAY-16
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L16050763-19	1.00	01	121	116	101	102
L16050763-20	1.00	01	118	113	102	103
WG569786-01	1.00	01	118	111	101	102
WG569786-02	1.00	01	120	117	96.2	100

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 4775589
Report generated: 05/26/2016 09:47

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L16050763
Instrument Id: HPMS17
Workgroup (AAB#): WG569773

Method: 8260
CAL ID: HPMS17-20-MAY-16
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L16050763-01	1.00	01	105	98.9	104	102
L16050763-02	1.00	01	106	105	104	103
L16050763-03	1.00	01	105	105	105	103
L16050763-04	1.00	01	105	98.0	104	102
L16050763-05	1.00	01	102	96.9	108	104
L16050763-06	1.00	01	105	97.3	105	102
L16050763-07	1.00	01	104	96.1	103	101
L16050763-09	1.00	01	109	99.5	105	104
L16050763-10	1.00	01	107	98.0	105	103
L16050763-12	1.00	01	108	105	105	102
L16050763-13	1.00	01	109	102	105	102
L16050763-14	1.00	01	111	96.8	101	99.7
L16050763-15	1.00	01	102	103	103	102
L16050763-16	1.00	01	104	104	104	102
L16050763-17	1.00	01	108	100	105	102
L16050763-18	1.00	01	104	100	102	103
WG569773-01	1.00	01	105	97.0	108	103
WG569773-02	1.00	01	109	106	106	103

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 4775589
Report generated: 05/26/2016 09:47

METHOD BLANK SUMMARY

Login Number:	L16050763	**Work Group:**	WG569786
Blank File ID:	11M12018	**Blank Sample ID:**	WG569786-01
Prep Date:	05/21/16 13:05	**Instrument ID:**	HPMS11
Analyzed Date:	05/21/16 13:05	**Method:**	8260B
Analyst:	JDS		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG569786-02	11M12019	05/21/16 13:37	01
TRIP BLANK	L16050763-20	11M12022	05/21/16 15:12	01
50WW26-051216	L16050763-19	11M12025	05/21/16 16:48	01

Report Name: BLANK_SUMMARY
PDF File ID: 4775578
Report generated 05/26/2016 09:47

METHOD BLANK SUMMARY

Login Number: L16050763
Blank File ID: 17M021270
Prep Date: 05/20/16 20:48
Analyzed Date: 05/20/16 20:48
Analyst: ADC

Work Group: WG569773
Blank Sample ID: WG569773-01
Instrument ID: HPMS17
Method: 8260B

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG569773-02	17M021271	05/20/16 21:07	01
50WW07MS-051116	L16050763-02	17M021272	05/20/16 21:27	01
50WW07MSD-051116	L16050763-03	17M021273	05/20/16 21:47	01
50WW27MS-05126	L16050763-15	17M021274	05/20/16 22:06	01
50WW27MSD-05126	L16050763-16	17M021275	05/20/16 22:26	01
50WW07-051116	L16050763-01	17M021277	05/20/16 23:05	01
50WW27-05126	L16050763-14	17M021278	05/20/16 23:25	01
50WW28-051116	L16050763-04	17M021279	05/20/16 23:44	01
50WW20-051116	L16050763-05	17M021280	05/21/16 00:04	01
50WW05-051116	L16050763-06	17M021281	05/21/16 00:24	01
50WW05FD-051116	L16050763-07	17M021282	05/21/16 00:44	01
50WW01-051216	L16050763-09	17M021284	05/21/16 01:23	01
50WW09-051216	L16050763-10	17M021285	05/21/16 01:43	01
50WW10FD-051216	L16050763-12	17M021287	05/21/16 02:23	01
50WW15-051216	L16050763-13	17M021288	05/21/16 02:42	01
50WW21-051216	L16050763-17	17M021289	05/21/16 03:02	01
50WW21FD-051216	L16050763-18	17M021290	05/21/16 03:22	01

Report Name: BLANK_SUMMARY
PDF File ID: 4775578
Report generated 05/26/2016 09:47

METHOD BLANK SUMMARY

Login Number: L16050763
Work Group: WG569789
Blank File ID: 17M021298
Blank Sample ID: WG569789-01
Prep Date: 05/21/16 15:23
Instrument ID: HPMS17
Analyzed Date: 05/21/16 15:23
Method: 8260B
Analyst: JDS

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG569789-02	17M021300	05/21/16 16:02	01
50WW16-051116	L16050763-08	17M021306	05/21/16 18:00	01
50WW10-051216	L16050763-11	17M021307	05/21/16 18:20	01

Report Name: BLANK_SUMMARY
PDF File ID: 4775578
Report generated 05/26/2016 09:47

Login Number:L16050763 Prep Date:05/21/16 13:05 Sample ID:WG569786-01
Instrument ID:HPMS11 Run Date:05/21/16 13:05 Prep Method:5030B/5030C/503
File ID:11M12018 Analyst:JDS Method:8260B
Workgroup (AAB#):WG569786 Matrix:Water Units:ug/L
Contract #: Cal ID:HPMS11-13-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	2.00	0.500	1	U
Bromomethane	0.500	2.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	2.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	2.00	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	2.00	0.500	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	2.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	2.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U
Isopropylbenzene	0.250	1.00	0.250	1	U

Report Name:BLANK
PDF ID: 4775579
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Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L16050763 Prep Date: 05/21/16 13:05 Sample ID: WG569786-01
Instrument ID: HPMS11 Run Date: 05/21/16 13:05 Prep Method: 5030B/5030C/503
File ID: 11M12018 Analyst: JDS Method: 8260B
Workgroup (AAB#): WG569786 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS11-13-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	1.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	2.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	2.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	111	85 - 115	PASS
1,2-Dichloroethane-d4	118	70 - 120	PASS
Toluene-d8	102	85 - 120	PASS
4-Bromofluorobenzene	101	75 - 120	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4775579
26-MAY-2016 09:47

Login Number:L16050763 Prep Date:05/20/16 20:48 Sample ID:WG569773-01
Instrument ID:HPMS17 Run Date:05/20/16 20:48 Prep Method:5030B/5030C/503
File ID:17M021270 Analyst:ADC Method:8260B
Workgroup (AAB#):WG569773 Matrix:Water Units:ug/L
Contract #: Cal ID:HPMS17-20-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.158	1	J
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	2.00	0.500	1	U
Bromomethane	0.500	2.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.408	1	J
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	2.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.139	1	J
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	2.00	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	2.00	0.500	1	U
2-Chlorotoluene	0.125	1.00	0.147	1	J
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.182	1	J
1,3-Dichlorobenzene	0.250	1.00	0.304	1	J
1,4-Dichlorobenzene	0.125	1.00	0.331	1	J
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	2.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	2.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.468	1	J
Isopropylbenzene	0.250	1.00	0.250	1	U

Report Name:BLANK
PDF ID: 4775579
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Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L16050763 Prep Date: 05/20/16 20:48 Sample ID: WG569773-01
Instrument ID: HPMS17 Run Date: 05/20/16 20:48 Prep Method: 5030B/5030C/503
File ID: 17M021270 Analyst: ADC Method: 8260B
Workgroup (AAB#): WG569773 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS17-20-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	1.00	0.250	1	U
Naphthalene	0.200	1.00	0.306	1	J
n-Propylbenzene	0.125	1.00	0.207	1	J
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.461	1	J
1,2,4-Trichlorobenzene	0.200	1.00	0.575	1	*
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	2.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	2.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	97.0	85 - 115	PASS
1,2-Dichloroethane-d4	105	70 - 120	PASS
Toluene-d8	103	85 - 120	PASS
4-Bromofluorobenzene	108	75 - 120	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4775579
26-MAY-2016 09:47

Login Number:L16050763 Prep Date:05/21/16 15:23 Sample ID:WG569789-01
Instrument ID:HPMS17 Run Date:05/21/16 15:23 Prep Method:5030B/5030C/503
File ID:17M021298 Analyst:JDS Method:8260B
Workgroup (AAB#):WG569789 Matrix:Water Units:ug/L
Contract #: Cal ID:HPMS17-20-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	2.00	0.500	1	U
Bromomethane	0.500	2.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	2.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	2.00	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	2.00	0.500	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.144	1	J
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	2.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	2.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U
Isopropylbenzene	0.250	1.00	0.250	1	U

Report Name:BLANK
PDF ID: 4775579
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Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L16050763 Prep Date: 05/21/16 15:23 Sample ID: WG569789-01
Instrument ID: HPMS17 Run Date: 05/21/16 15:23 Prep Method: 5030B/5030C/503
File ID: 17M021298 Analyst: JDS Method: 8260B
Workgroup (AAB#): WG569789 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS17-20-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	1.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.241	1	J
1,2,4-Trichlorobenzene	0.200	1.00	0.281	1	J
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	2.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	2.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	99.3	85 - 115	PASS
1,2-Dichloroethane-d4	105	70 - 120	PASS
Toluene-d8	105	85 - 120	PASS
4-Bromofluorobenzene	105	75 - 120	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4775579
26-MAY-2016 09:47

Login Number: L16050763 Run Date: 05/21/2016 Sample ID: WG569786-02
Instrument ID: HPMS11 Run Time: 13:37 Prep Method: 5030B/5030C/503
File ID: 11M12019 Analyst: JDS Method: 8260B
Workgroup (AAB#): WG569786 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD76207 Cal ID: HPMS11-13-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	23.3	117	40 - 140	
Benzene	20.0	19.8	99.2	80 - 120	
Bromobenzene	20.0	19.5	97.6	75 - 125	
Bromochloromethane	20.0	23.2	116	65 - 130	
Bromodichloromethane	20.0	23.0	115	75 - 120	
Bromoform	20.0	21.8	109	70 - 130	
Bromomethane	20.0	20.1	101	30 - 145	
2-Butanone	20.0	23.0	115	30 - 150	
n-Butylbenzene	20.0	19.2	95.9	70 - 135	
sec-Butylbenzene	20.0	19.9	99.5	70 - 125	
tert-Butylbenzene	20.0	20.6	103	70 - 130	
Carbon disulfide	20.0	20.9	104	35 - 160	
Carbon tetrachloride	20.0	23.1	116	65 - 140	
Chlorobenzene	20.0	21.0	105	80 - 120	
Chlorodibromomethane	20.0	22.4	112	60 - 135	
Chloroethane	20.0	20.9	105	60 - 135	
Chloroform	20.0	21.2	106	65 - 135	
Chloromethane	20.0	18.2	91.1	40 - 125	
2-Chlorotoluene	20.0	20.3	101	75 - 125	
4-Chlorotoluene	20.0	21.0	105	75 - 130	
1,2-Dibromo-3-chloropropane	20.0	20.8	104	50 - 130	
1,2-Dibromoethane	20.0	21.4	107	80 - 120	
Dibromomethane	20.0	22.7	113	75 - 125	
1,2-Dichlorobenzene	20.0	21.2	106	70 - 120	
1,3-Dichlorobenzene	20.0	20.5	103	75 - 125	
1,4-Dichlorobenzene	20.0	20.5	103	75 - 125	
Dichlorodifluoromethane	20.0	17.5	87.5	30 - 155	
1,1-Dichloroethane	20.0	20.5	103	70 - 135	
1,2-Dichloroethane	20.0	24.8	124	70 - 130	
1,1-Dichloroethene	20.0	19.8	99.0	70 - 130	
cis-1,2-Dichloroethene	20.0	20.7	104	70 - 125	
trans-1,2-Dichloroethene	20.0	20.5	103	60 - 140	
1,2-Dichloropropane	20.0	20.5	103	75 - 125	
1,3-Dichloropropane	20.0	21.5	107	75 - 125	
2,2-Dichloropropane	20.0	22.0	110	70 - 135	
cis-1,3-Dichloropropene	20.0	24.1	120	70 - 130	
trans-1,3-Dichloropropene	20.0	21.4	107	55 - 140	
1,1-Dichloropropene	20.0	20.8	104	75 - 130	
Ethylbenzene	20.0	19.8	99.2	75 - 125	
2-Hexanone	20.0	20.6	103	55 - 130	
Hexachlorobutadiene	20.0	16.4	82.0	50 - 140	

LCS - Modified 03/06/2008
PDF File ID: 4775580
Report generated: 05/26/2016 09:47

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050763 Run Date: 05/21/2016 Sample ID: WG569786-02
Instrument ID: HPMS11 Run Time: 13:37 Prep Method: 5030B/5030C/503
File ID: 11M12019 Analyst: JDS Method: 8260B
Workgroup (AAB#): WG569786 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD76207 Cal ID: HPMS11-13-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Isopropylbenzene	20.0	21.4	107	75 - 125	
p-Isopropyltoluene	20.0	20.2	101	75 - 130	
4-Methyl-2-pentanone	20.0	22.9	115	60 - 135	
Methylene chloride	20.0	20.3	102	55 - 140	
Naphthalene	20.0	18.7	93.5	55 - 140	
n-Propylbenzene	20.0	20.5	103	70 - 130	
Styrene	20.0	21.0	105	65 - 135	
1,1,1,2-Tetrachloroethane	20.0	21.5	108	80 - 130	
1,1,2,2-Tetrachloroethane	20.0	20.3	102	65 - 130	
Tetrachloroethene	20.0	19.2	96.1	45 - 150	
Toluene	20.0	19.7	98.7	75 - 120	
1,2,3-Trichlorobenzene	20.0	19.3	96.3	55 - 140	
1,2,4-Trichlorobenzene	20.0	19.6	97.9	65 - 135	
1,1,1-Trichloroethane	20.0	23.1	116	65 - 130	
1,1,2-Trichloroethane	20.0	21.3	106	75 - 125	
Trichloroethene	20.0	22.0	110	70 - 125	
Trichlorofluoromethane	20.0	22.2	111	60 - 145	
1,2,3-Trichloropropane	20.0	22.1	110	75 - 125	
1,2,4-Trimethylbenzene	20.0	20.7	103	75 - 130	
1,3,5-Trimethylbenzene	20.0	20.4	102	75 - 130	
Vinyl chloride	20.0	21.7	108	50 - 145	
o-Xylene	20.0	20.7	103	80 - 120	
m-,p-Xylene	40.0	40.4	101	75 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	117	85 - 115	FAIL
1,2-Dichloroethane-d4	120	70 - 120	PASS
Toluene-d8	100	85 - 120	PASS
4-Bromofluorobenzene	96.2	75 - 120	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 4775580
Report generated: 05/26/2016 09:47

Login Number: L16050763 Run Date: 05/20/2016 Sample ID: WG569773-02
Instrument ID: HPMS17 Run Time: 21:07 Prep Method: 5030B/5030C/503
File ID: 17M021271 Analyst: ADC Method: 8260B
Workgroup (AAB#): WG569773 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD75977 Cal ID: HPMS17-20-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	25.5	128	40 - 140	
Benzene	20.0	19.4	97.0	80 - 120	
Bromobenzene	20.0	19.8	99.1	75 - 125	
Bromochloromethane	20.0	19.8	98.8	65 - 130	
Bromodichloromethane	20.0	20.2	101	75 - 120	
Bromoform	20.0	20.1	101	70 - 130	
Bromomethane	20.0	17.5	87.7	30 - 145	
2-Butanone	20.0	24.7	123	30 - 150	
n-Butylbenzene	20.0	20.9	105	70 - 135	
sec-Butylbenzene	20.0	21.2	106	70 - 125	
tert-Butylbenzene	20.0	21.4	107	70 - 130	
Carbon disulfide	20.0	20.4	102	35 - 160	
Carbon tetrachloride	20.0	19.7	98.4	65 - 140	
Chlorobenzene	20.0	20.2	101	80 - 120	
Chlorodibromomethane	20.0	20.4	102	60 - 135	
Chloroethane	20.0	16.2	81.1	60 - 135	
Chloroform	20.0	19.1	95.7	65 - 135	
Chloromethane	20.0	17.5	87.7	40 - 125	
2-Chlorotoluene	20.0	20.4	102	75 - 125	
4-Chlorotoluene	20.0	21.0	105	75 - 130	
1,2-Dibromo-3-chloropropane	20.0	25.6	128	50 - 130	
1,2-Dibromoethane	20.0	21.3	106	80 - 120	
Dibromomethane	20.0	20.0	99.8	75 - 125	
1,2-Dichlorobenzene	20.0	21.1	105	70 - 120	
1,3-Dichlorobenzene	20.0	20.7	104	75 - 125	
1,4-Dichlorobenzene	20.0	20.1	101	75 - 125	
Dichlorodifluoromethane	20.0	14.2	70.8	30 - 155	
1,1-Dichloroethane	20.0	18.3	91.6	70 - 135	
1,2-Dichloroethane	20.0	20.6	103	70 - 130	
1,1-Dichloroethene	20.0	17.3	86.6	70 - 130	
cis-1,2-Dichloroethene	20.0	20.1	100	70 - 125	
trans-1,2-Dichloroethene	20.0	19.0	94.8	60 - 140	
1,2-Dichloropropane	20.0	20.4	102	75 - 125	
1,3-Dichloropropane	20.0	22.3	112	75 - 125	
2,2-Dichloropropane	20.0	18.1	90.3	70 - 135	
cis-1,3-Dichloropropene	20.0	22.8	114	70 - 130	
trans-1,3-Dichloropropene	20.0	21.6	108	55 - 140	
1,1-Dichloropropene	20.0	18.9	94.3	75 - 130	
Ethylbenzene	20.0	19.9	99.6	75 - 125	
2-Hexanone	20.0	24.4	122	55 - 130	
Hexachlorobutadiene	20.0	22.5	113	50 - 140	

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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050763 Run Date: 05/20/2016 Sample ID: WG569773-02
Instrument ID: HPMS17 Run Time: 21:07 Prep Method: 5030B/5030C/503
File ID: 17M021271 Analyst: ADC Method: 8260B
Workgroup (AAB#): WG569773 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD75977 Cal ID: HPMS17-20-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Isopropylbenzene	20.0	20.9	105	75 - 125	
p-Isopropyltoluene	20.0	21.2	106	75 - 130	
4-Methyl-2-pentanone	20.0	24.8	124	60 - 135	
Methylene chloride	20.0	18.8	93.9	55 - 140	
Naphthalene	20.0	22.6	113	55 - 140	
n-Propylbenzene	20.0	21.2	106	70 - 130	
Styrene	20.0	21.0	105	65 - 135	
1,1,1,2-Tetrachloroethane	20.0	21.0	105	80 - 130	
1,1,2,2-Tetrachloroethane	20.0	23.8	119	65 - 130	
Tetrachloroethene	20.0	18.9	94.6	45 - 150	
Toluene	20.0	19.6	98.2	75 - 120	
1,2,3-Trichlorobenzene	20.0	22.9	114	55 - 140	
1,2,4-Trichlorobenzene	20.0	22.4	112	65 - 135	
1,1,1-Trichloroethane	20.0	19.1	95.7	65 - 130	
1,1,2-Trichloroethane	20.0	21.5	108	75 - 125	
Trichloroethene	20.0	19.6	98.1	70 - 125	
Trichlorofluoromethane	20.0	13.6	67.9	60 - 145	
1,2,3-Trichloropropane	20.0	22.7	113	75 - 125	
1,2,4-Trimethylbenzene	20.0	20.6	103	75 - 130	
1,3,5-Trimethylbenzene	20.0	20.9	104	75 - 130	
Vinyl chloride	20.0	18.3	91.7	50 - 145	
o-Xylene	20.0	20.6	103	80 - 120	
m-,p-Xylene	40.0	41.2	103	75 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	106	85 - 115	PASS
1,2-Dichloroethane-d4	109	70 - 120	PASS
Toluene-d8	103	85 - 120	PASS
4-Bromofluorobenzene	106	75 - 120	PASS

* EXCEEDS %REC LIMIT

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Report generated: 05/26/2016 09:47

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050763 Run Date: 05/21/2016 Sample ID: WG569789-02
Instrument ID: HPMS17 Run Time: 16:02 Prep Method: 5030B/5030C/503
File ID: 17M021300 Analyst: JDS Method: 8260B
Workgroup (AAB#): WG569789 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD75977 Cal ID: HPMS17-20-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	22.4	112	40 - 140	
Benzene	20.0	18.6	92.8	80 - 120	
Bromobenzene	20.0	19.3	96.7	75 - 125	
Bromochloromethane	20.0	18.7	93.3	65 - 130	
Bromodichloromethane	20.0	19.4	97.1	75 - 120	
Bromoform	20.0	18.5	92.7	70 - 130	
Bromomethane	20.0	14.5	72.7	30 - 145	
2-Butanone	20.0	21.9	109	30 - 150	
n-Butylbenzene	20.0	21.4	107	70 - 135	
sec-Butylbenzene	20.0	21.1	106	70 - 125	
tert-Butylbenzene	20.0	21.2	106	70 - 130	
Carbon disulfide	20.0	19.7	98.7	35 - 160	
Carbon tetrachloride	20.0	18.8	94.0	65 - 140	
Chlorobenzene	20.0	19.7	98.4	80 - 120	
Chlorodibromomethane	20.0	19.1	95.5	60 - 135	
Chloroethane	20.0	15.6	78.0	60 - 135	
Chloroform	20.0	18.5	92.3	65 - 135	
Chloromethane	20.0	14.8	74.2	40 - 125	
2-Chlorotoluene	20.0	20.2	101	75 - 125	
4-Chlorotoluene	20.0	20.8	104	75 - 130	
1,2-Dibromo-3-chloropropane	20.0	23.1	116	50 - 130	
1,2-Dibromoethane	20.0	19.8	99.1	80 - 120	
Dibromomethane	20.0	18.4	91.8	75 - 125	
1,2-Dichlorobenzene	20.0	20.9	105	70 - 120	
1,3-Dichlorobenzene	20.0	20.7	104	75 - 125	
1,4-Dichlorobenzene	20.0	20.1	101	75 - 125	
Dichlorodifluoromethane	20.0	12.9	64.7	30 - 155	
1,1-Dichloroethane	20.0	17.6	88.0	70 - 135	
1,2-Dichloroethane	20.0	19.1	95.7	70 - 130	
1,1-Dichloroethene	20.0	16.3	81.7	70 - 130	
cis-1,2-Dichloroethene	20.0	19.2	95.9	70 - 125	
trans-1,2-Dichloroethene	20.0	18.6	93.1	60 - 140	
1,2-Dichloropropane	20.0	19.7	98.3	75 - 125	
1,3-Dichloropropane	20.0	20.5	102	75 - 125	
2,2-Dichloropropane	20.0	17.8	88.8	70 - 135	
cis-1,3-Dichloropropene	20.0	21.8	109	70 - 130	
trans-1,3-Dichloropropene	20.0	20.2	101	55 - 140	
1,1-Dichloropropene	20.0	18.0	89.8	75 - 130	
Ethylbenzene	20.0	19.3	96.7	75 - 125	
2-Hexanone	20.0	20.8	104	55 - 130	
Hexachlorobutadiene	20.0	22.9	115	50 - 140	

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Login Number: L16050763 Run Date: 05/21/2016 Sample ID: WG569789-02
Instrument ID: HPMS17 Run Time: 16:02 Prep Method: 5030B/5030C/503
File ID: 17M021300 Analyst: JDS Method: 8260B
Workgroup (AAB#): WG569789 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD75977 Cal ID: HPMS17-20-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Isopropylbenzene	20.0	20.5	102	75 - 125	
p-Isopropyltoluene	20.0	21.2	106	75 - 130	
4-Methyl-2-pentanone	20.0	21.0	105	60 - 135	
Methylene chloride	20.0	18.1	90.6	55 - 140	
Naphthalene	20.0	21.9	110	55 - 140	
n-Propylbenzene	20.0	21.0	105	70 - 130	
Styrene	20.0	20.7	103	65 - 135	
1,1,1,2-Tetrachloroethane	20.0	20.3	102	80 - 130	
1,1,2,2-Tetrachloroethane	20.0	23.5	117	65 - 130	
Tetrachloroethene	20.0	18.3	91.6	45 - 150	
Toluene	20.0	19.0	95.1	75 - 120	
1,2,3-Trichlorobenzene	20.0	23.1	116	55 - 140	
1,2,4-Trichlorobenzene	20.0	22.6	113	65 - 135	
1,1,1-Trichloroethane	20.0	18.5	92.3	65 - 130	
1,1,2-Trichloroethane	20.0	20.0	99.9	75 - 125	
Trichloroethene	20.0	18.2	90.8	70 - 125	
Trichlorofluoromethane	20.0	15.2	75.9	60 - 145	
1,2,3-Trichloropropane	20.0	20.9	104	75 - 125	
1,2,4-Trimethylbenzene	20.0	20.6	103	75 - 130	
1,3,5-Trimethylbenzene	20.0	20.7	104	75 - 130	
Vinyl chloride	20.0	17.1	85.4	50 - 145	
o-Xylene	20.0	20.2	101	80 - 120	
m-,p-Xylene	40.0	40.2	100	75 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	105	85 - 115	PASS
1,2-Dichloroethane-d4	103	70 - 120	PASS
Toluene-d8	103	85 - 120	PASS
4-Bromofluorobenzene	105	75 - 120	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
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Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L16050763 Cal ID: HPMS17- 20-MAY-16 Worknum: WG569773

Instrument ID: HPMS17 Contract #: Prep Method: 5030B/5030C/

Parent ID: L16050763-01 File ID: 17M021277 Dil: 1 Method: 5035A

Sample ID: L16050763-02 MS File ID: 17M021272 Dil: 1 Matrix: 8260B

Sample ID: L16050763-03 MSD File ID: 17M021273 Dil: 1 Units: Water

ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
1,1,1,2-Tetrachloroethane	U	20.0	20.0	100	20.0	19.4	97.1	3.00	80 - 130	30	
1,1,1-Trichloroethane	U	20.0	17.4	86.9	20.0	16.7	83.3	4.19	65 - 130	30	
1,1,2,2-Tetrachloroethane	U	20.0	26.6	133	20.0	26.3	131	1.04	65 - 130	30	*
1,1,2-Trichloroethane	U	20.0	20.3	101	20.0	19.9	99.7	1.81	75 - 125	30	
1,1-Dichloroethane	U	20.0	17.2	86	20.0	16.7	83.7	2.67	70 - 135	30	
1,1-Dichloroethene	U	20.0	15.5	77.7	20.0	14.6	72.9	6.34	70 - 130	30	
1,1-Dichloropropene	U	20.0	16.9	84.5	20.0	16.0	80	5.55	75 - 130	30	
1,2,3-Trichlorobenzene	0.221	20.0	20.7	102	20.0	20.6	102	0.627	55 - 140	30	
1,2,3-Trichloropropane	U	20.0	21.4	107	20.0	21.0	105	1.79	75 - 125	30	
1,2,4-Trichlorobenzene	0.311	20.0	20.2	99.2	20.0	19.9	98.1	1.06	65 - 135	30	
1,2,4-Trimethylbenzene	U	20.0	19.0	95.2	20.0	18.6	93	2.41	75 - 130	30	
1,2-Dibromo-3-chloropropane	U	20.0	23.8	119	20.0	23.9	119	0.414	50 - 130	30	
1,2-Dibromoethane	U	20.0	20.5	102	20.0	20.0	100	2.26	80 - 120	30	
1,2-Dichlorobenzene	U	20.0	19.4	97.2	20.0	19.1	95.3	2.03	70 - 120	30	
1,2-Dichloroethane	U	20.0	19.6	97.8	20.0	19.1	95.5	2.41	70 - 130	30	
1,2-Dichloropropane	U	20.0	19.3	96.7	20.0	18.7	93.3	3.64	75 - 125	30	
1,3,5-Trimethylbenzene	U	20.0	19.1	95.7	20.0	18.7	93.7	2.20	75 - 130	30	
1,3-Dichlorobenzene	U	20.0	19.1	95.6	20.0	18.8	94	1.68	75 - 125	30	
1,3-Dichloropropane	U	20.0	21.1	106	20.0	20.7	103	2.15	75 - 125	30	
1,4-Dichlorobenzene	0.194	20.0	18.7	92.3	20.0	18.3	90.6	1.79	75 - 125	30	
2,2-Dichloropropane	U	20.0	16.7	83.3	20.0	15.7	78.3	6.26	70 - 135	30	
2-Butanone	U	20.0	23.4	117	20.0	23.0	115	1.53	30 - 150	30	
2-Chlorotoluene	U	20.0	18.9	94.5	20.0	18.6	92.8	1.86	75 - 125	30	
2-Hexanone	U	20.0	23.5	118	20.0	23.0	115	2.29	55 - 130	30	
4-Chlorotoluene	U	20.0	19.3	96.7	20.0	19.1	95.4	1.38	75 - 130	30	
4-Methyl-2-pentanone	U	20.0	23.2	116	20.0	22.8	114	1.51	60 - 135	30	
Acetone	U	20.0	25.9	130	20.0	26.2	131	0.858	40 - 140	30	
Benzene	U	20.0	18.2	91	20.0	17.6	87.8	3.49	80 - 120	30	
Bromobenzene	U	20.0	18.5	92.6	20.0	18.3	91.4	1.31	75 - 125	30	
Bromochloromethane	U	20.0	18.7	93.5	20.0	18.4	91.9	1.69	65 - 130	30	
Bromodichloromethane	U	20.0	19.3	96.4	20.0	18.7	93.6	2.94	75 - 120	30	
Bromoform	U	20.0	19.3	96.5	20.0	18.8	94.1	2.52	70 - 130	30	
Bromomethane	U	20.0	16.7	83.7	20.0	15.8	78.8	5.96	30 - 145	30	
Carbon disulfide	U	20.0	19.1	95.7	20.0	18.0	90.2	5.95	35 - 160	30	
Carbon tetrachloride	U	20.0	17.4	87	20.0	16.3	81.5	6.59	65 - 140	30	
Chlorobenzene	U	20.0	19.0	95.2	20.0	18.5	92.6	2.82	80 - 120	30	
Chloroethane	U	20.0	15.3	76.7	20.0	14.5	72.5	5.53	60 - 135	30	
Chloroform	U	20.0	18.2	91	20.0	17.7	88.3	2.98	65 - 135	30	
Chloromethane	U	20.0	18.1	90.4	20.0	16.9	84.3	6.98	40 - 125	30	
cis-1,2-Dichloroethene	U	20.0	18.9	94.7	20.0	18.5	92.4	2.45	70 - 125	30	
cis-1,3-Dichloropropene	U	20.0	21.3	106	20.0	20.6	103	3.34	70 - 130	30	

MS_MSD - Modified 03/06/2008

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Loginnum: L16050763 Cal ID: HPMS17 20-MAY-16 Worknum: WG569773
Instrument ID: HPMS17 Contract #: Prep Method: 5030B/5030C/
Parent ID: L16050763-01 File ID: 17M021277 Dil: 1 Method: 5035A
Sample ID: L16050763-02 MS File ID: 17M021272 Dil: 1 Matrix: 8260B
Sample ID: L16050763-03 MSD File ID: 17M021273 Dil: 1 Units: Water
ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Chlorodibromomethane	U	20.0	19.3	96.4	20.0	18.9	94.7	1.70	60 - 135	30	
Dibromomethane	U	20.0	18.8	94.2	20.0	18.4	92.2	2.11	75 - 125	30	
Dichlorodifluoromethane	U	20.0	12.3	61.6	20.0	11.2	55.8	9.91	30 - 155	30	
Ethylbenzene	U	20.0	18.5	92.4	20.0	17.7	88.7	4.04	75 - 125	30	
Hexachlorobutadiene	U	20.0	19.1	95.4	20.0	18.7	93.3	2.19	50 - 140	30	
Isopropylbenzene	U	20.0	19.1	95.3	20.0	18.4	92	3.52	75 - 125	30	
m-,p-Xylene	U	40.0	38.2	95.4	40.0	36.9	92.2	3.40	75 - 130	30	
Methylene chloride	U	20.0	17.9	89.3	20.0	17.4	87.2	2.38	55 - 140	30	
n-Butylbenzene	U	20.0	18.6	93	20.0	18.1	90.6	2.64	70 - 135	30	
n-Propylbenzene	U	20.0	19.3	96.3	20.0	18.8	94.1	2.30	70 - 130	30	
Naphthalene	U	20.0	20.6	103	20.0	20.4	102	0.893	55 - 140	30	
o-Xylene	U	20.0	19.5	97.3	20.0	19.1	95.5	1.81	80 - 120	30	
p-Isopropyltoluene	U	20.0	18.9	94.7	20.0	18.7	93.5	1.34	75 - 130	30	
sec-Butylbenzene	U	20.0	18.9	94.5	20.0	18.3	91.6	3.05	70 - 125	30	
Styrene	U	20.0	19.8	98.8	20.0	19.3	96.4	2.51	65 - 135	30	
tert-Butylbenzene	U	20.0	19.1	95.6	20.0	18.4	92	3.83	70 - 130	30	
Tetrachloroethene	U	20.0	17.1	85.5	20.0	16.4	81.9	4.36	45 - 150	30	
Toluene	U	20.0	18.5	92.5	20.0	18.0	89.8	2.90	75 - 120	30	
trans-1,2-Dichloroethene	U	20.0	17.6	88.1	20.0	16.7	83.6	5.29	60 - 140	30	
trans-1,3-Dichloropropene	U	20.0	20.2	101	20.0	19.6	98	2.76	55 - 140	30	
Trichloroethene	U	20.0	16.7	83.7	20.0	16.2	81.1	3.12	70 - 125	30	
Trichlorofluoromethane	U	20.0	15.6	78.2	20.0	14.4	72	8.28	60 - 145	30	
Vinyl chloride	U	20.0	16.8	84.1	20.0	15.6	78	7.50	50 - 145	30	

* FAILS %REC LIMIT

\# FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008
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Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L16050763 Cal ID: HPMS17- 20-MAY-16 Worknum:WG569773

Instrument ID:HPMS17 Contract #: Prep Method:5030B/5030C/

Parent ID:L16050763-14 File ID:17M021278 Dil:1 Method:5035A

Sample ID:L16050763-15 MS File ID:17M021274 Dil:1 Matrix:8260B

Sample ID:L16050763-16 MSD File ID:17M021275 Dil:1 Units:Water

ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
1,1,1,2-Tetrachloroethane	U	20.0	19.0	94.9	20.0	18.5	92.5	2.59	80 - 130	30	
1,1,1-Trichloroethane	U	20.0	15.7	78.6	20.0	15.4	76.8	2.29	65 - 130	30	
1,1,2,2-Tetrachloroethane	U	20.0	25.0	125	20.0	24.5	122	2.22	65 - 130	30	
1,1,2-Trichloroethane	U	20.0	19.3	96.6	20.0	18.9	94.5	2.19	75 - 125	30	
1,1-Dichloroethane	U	20.0	16.1	80.7	20.0	15.8	79	2.12	70 - 135	30	
1,1-Dichloroethene	U	20.0	13.7	68.6	20.0	13.4	66.9	2.56	70 - 130	30	*
1,1-Dichloropropene	U	20.0	15.0	75	20.0	14.7	73.4	2.09	75 - 130	30	*
1,2,3-Trichlorobenzene	0.184	20.0	19.4	96.1	20.0	18.9	93.7	2.53	55 - 140	30	
1,2,3-Trichloropropane	U	20.0	20.1	100	20.0	19.8	99.1	1.20	75 - 125	30	
1,2,4-Trichlorobenzene	0.256	20.0	18.9	93.1	20.0	18.3	90.4	2.83	65 - 135	30	
1,2,4-Trimethylbenzene	U	20.0	17.8	89	20.0	17.4	87.2	2.06	75 - 130	30	
1,2-Dibromo-3-chloropropane	U	20.0	22.3	112	20.0	21.5	108	3.69	50 - 130	30	
1,2-Dibromoethane	U	20.0	19.6	97.9	20.0	18.9	94.6	3.41	80 - 120	30	
1,2-Dichlorobenzene	U	20.0	18.4	92.2	20.0	17.9	89.4	3.06	70 - 120	30	
1,2-Dichloroethane	U	20.0	18.7	93.3	20.0	18.0	90.1	3.57	70 - 130	30	
1,2-Dichloropropane	U	20.0	18.2	91.2	20.0	17.9	89.4	2.00	75 - 125	30	
1,3,5-Trimethylbenzene	U	20.0	17.9	89.3	20.0	17.5	87.6	1.93	75 - 130	30	
1,3-Dichlorobenzene	U	20.0	18.0	90.1	20.0	17.8	88.9	1.33	75 - 125	30	
1,3-Dichloropropane	U	20.0	20.2	101	20.0	19.8	99	1.92	75 - 125	30	
1,4-Dichlorobenzene	0.165	20.0	17.6	87.2	20.0	17.2	85.1	2.43	75 - 125	30	
2,2-Dichloropropane	U	20.0	15.0	75	20.0	14.5	72.6	3.22	70 - 135	30	
2-Butanone	U	20.0	21.8	109	20.0	21.0	105	3.85	30 - 150	30	
2-Chlorotoluene	U	20.0	17.8	89.1	20.0	17.3	86.6	2.76	75 - 125	30	
2-Hexanone	U	20.0	21.7	109	20.0	21.3	106	2.01	55 - 130	30	
4-Chlorotoluene	U	20.0	18.4	92.1	20.0	17.9	89.6	2.71	75 - 130	30	
4-Methyl-2-pentanone	U	20.0	22.0	110	20.0	21.2	106	3.49	60 - 135	30	
Acetone	U	20.0	24.0	120	20.0	24.3	121	1.22	40 - 140	30	
Benzene	U	20.0	17.2	85.9	20.0	16.8	83.8	2.45	80 - 120	30	
Bromobenzene	U	20.0	17.7	88.4	20.0	17.2	86	2.76	75 - 125	30	
Bromochloromethane	U	20.0	18.2	90.8	20.0	17.7	88.5	2.59	65 - 130	30	
Bromodichloromethane	U	20.0	18.4	91.8	20.0	17.7	88.7	3.37	75 - 120	30	
Bromoform	U	20.0	18.3	91.6	20.0	17.7	88.7	3.30	70 - 130	30	
Bromomethane	U	20.0	15.4	76.9	20.0	15.2	76.1	0.954	30 - 145	30	
Carbon disulfide	U	20.0	17.3	86.6	20.0	17.0	85	1.81	35 - 160	30	
Carbon tetrachloride	U	20.0	15.4	77.1	20.0	14.9	74.5	3.50	65 - 140	30	
Chlorobenzene	U	20.0	17.9	89.7	20.0	17.5	87.7	2.36	80 - 120	30	
Chloroethane	U	20.0	14.2	71	20.0	13.6	68	4.33	60 - 135	30	
Chloroform	U	20.0	17.2	86.1	20.0	16.7	83.7	2.81	65 - 135	30	
Chloromethane	U	20.0	16.4	81.9	20.0	15.8	79	3.49	40 - 125	30	
cis-1,2-Dichloroethene	0.515	20.0	18.4	89.3	20.0	17.9	86.9	2.62	70 - 125	30	
cis-1,3-Dichloropropene	U	20.0	20.0	100	20.0	19.5	97.7	2.30	70 - 130	30	

MS_MSD - Modified 03/06/2008

PDF File ID: 4775581

Report generated 05/26/2016 09:47

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum: L16050763 Cal ID: HPMS17 20-MAY-16 Worknum: WG569773

Instrument ID: HPMS17 Contract #: Prep Method: 5030B/5030C/

Parent ID: L16050763-14 File ID: 17M021278 Dil: 1 Method: 5035A

Sample ID: L16050763-15 MS File ID: 17M021274 Dil: 1 Matrix: 8260B

Sample ID: L16050763-16 MSD File ID: 17M021275 Dil: 1 Units: Water

ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Chlorodibromomethane	U	20.0	18.3	91.5	20.0	17.9	89.6	2.07	60 - 135	30	
Dibromomethane	U	20.0	18.0	89.8	20.0	17.5	87.6	2.53	75 - 125	30	
Dichlorodifluoromethane	U	20.0	9.62	48.1	20.0	9.51	47.6	1.10	30 - 155	30	
Ethylbenzene	U	20.0	17.2	85.9	20.0	16.7	83.4	2.97	75 - 125	30	
Hexachlorobutadiene	U	20.0	16.0	80.1	20.0	15.6	78	2.62	50 - 140	30	
Isopropylbenzene	U	20.0	17.5	87.7	20.0	17.2	85.9	2.07	75 - 125	30	
m-,p-Xylene	U	40.0	35.4	88.5	40.0	34.6	86.6	2.17	75 - 130	30	
Methylene chloride	U	20.0	17.2	85.9	20.0	16.3	81.6	5.06	55 - 140	30	
n-Butylbenzene	U	20.0	16.7	83.7	20.0	16.5	82.3	1.70	70 - 135	30	
n-Propylbenzene	U	20.0	17.7	88.5	20.0	17.5	87.4	1.26	70 - 130	30	
Naphthalene	U	20.0	19.6	97.9	20.0	19.1	95.3	2.69	55 - 140	30	
o-Xylene	U	20.0	18.2	91	20.0	17.8	89	2.16	80 - 120	30	
p-Isopropyltoluene	U	20.0	17.3	86.6	20.0	17.0	84.9	1.96	75 - 130	30	
sec-Butylbenzene	U	20.0	17.0	84.9	20.0	16.7	83.3	1.85	70 - 125	30	
Styrene	U	20.0	18.7	93.5	20.0	18.3	91.3	2.39	65 - 135	30	
tert-Butylbenzene	U	20.0	17.4	87.2	20.0	17.1	85.7	1.82	70 - 130	30	
Tetrachloroethene	U	20.0	15.3	76.7	20.0	15.2	75.9	1.11	45 - 150	30	
Toluene	U	20.0	17.2	86.2	20.0	16.9	84.5	1.93	75 - 120	30	
trans-1,2-Dichloroethene	U	20.0	16.2	80.9	20.0	16.3	81.4	0.587	60 - 140	30	
trans-1,3-Dichloropropene	U	20.0	19.0	95.1	20.0	18.7	93.4	1.78	55 - 140	30	
Trichloroethene	U	20.0	15.6	77.9	20.0	15.3	76.3	2.03	70 - 125	30	
Trichlorofluoromethane	U	20.0	12.9	64.3	20.0	12.6	63	2.01	60 - 145	30	
Vinyl chloride	U	20.0	14.8	73.8	20.0	14.4	71.8	2.76	50 - 145	30	

* FAILS %REC LIMIT

\# FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 4775581

Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050763
Instrument: HPMS11
Analyst: TMB /DLW
Workgroup: WG527475

Tune ID: WG527475-01
Run Date: 06/14/2015
Run Time: 09:34
File ID: 11M08234
Cal ID: HPMS11-14-JUN-15

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	19.9	7754	PASS
75.0	95.0	30.0	60.0	49.9	19472	PASS
95.0	95.0	100	100	100	38997	PASS
96.0	95.0	5.00	9.00	7.00	2731	PASS
173	174	0	2.00	0.338	111	PASS
174	95.0	50.0	100	84.2	32837	PASS
175	174	5.00	9.00	7.18	2357	PASS
176	174	95.0	101	97.9	32146	PASS
177	176	5.00	9.00	7.11	2284	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG527475-02	STD	01	06/14/2015 09:58	
WG527475-03	STD	01	06/14/2015 10:30	
WG527475-04	STD	01	06/14/2015 11:02	
WG527475-05	STD-CCV	01	06/14/2015 11:34	
WG527475-06	STD	01	06/14/2015 12:06	
WG527475-07	STD	01	06/14/2015 12:38	
WG527475-08	STD	01	06/14/2015 13:10	
WG527475-09	STD	01	06/14/2015 13:42	
WG527475-10	SSCV	01	06/14/2015 15:18	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4775583
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050763
Instrument: HPMS11
Analyst: JDS
Workgroup: WG568769

Tune ID: WG568769-01
Run Date: 05/13/2016
Run Time: 14:15
File ID: 11M11836
Cal ID: HPMS11-13-MAY-16

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.2	11638	PASS
75.0	95.0	30.0	60.0	50.2	24088	PASS
95.0	95.0	100	100	100	48016	PASS
96.0	95.0	5.00	9.00	6.26	3008	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	86.2	41402	PASS
175	174	5.00	9.00	8.26	3421	PASS
176	174	95.0	101	97.3	40288	PASS
177	176	5.00	9.00	6.92	2789	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG568769-02	STD	01	05/13/2016 14:40	
WG568769-03	STD	01	05/13/2016 15:12	
WG568769-04	STD	01	05/13/2016 15:43	
WG568769-05	STD	01	05/13/2016 16:15	
WG568769-06	STD	01	05/13/2016 16:47	
WG568769-07	STD	01	05/13/2016 17:19	
WG568769-08	STD-CCV	01	05/13/2016 17:51	
WG568769-09	STD	01	05/13/2016 18:22	
WG568769-10	STD	01	05/13/2016 18:54	
WG568769-11	STD	01	05/13/2016 19:26	
WG568769-12	SSCV	01	05/13/2016 20:30	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4775583
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050763
Instrument: HPMS11
Analyst: JDS
Workgroup: WG569785

Tune ID: WG569785-01
Run Date: 05/21/2016
Run Time: 11:36
File ID: 11M12015A
Cal ID: HPMS11-13-MAY-16

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	24.8	6408	PASS
75.0	95.0	30.0	60.0	51.4	13250	PASS
95.0	95.0	100	100	100	25788	PASS
96.0	95.0	5.00	9.00	6.52	1682	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	93.6	24141	PASS
175	174	5.00	9.00	7.41	1789	PASS
176	174	95.0	101	95.9	23154	PASS
177	176	5.00	9.00	6.96	1611	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG569785-02	CCV	01	05/21/2016 12:00	
WG569786-01	BLANK	01	05/21/2016 13:05	
WG569786-02	LCS	01	05/21/2016 13:37	
L16050763-20	TRIP BLANK	01	05/21/2016 15:12	
L16050763-19	50WW26-051216	01	05/21/2016 16:48	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4775583
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050763
Instrument: HPMS17
Analyst: ADC
Workgroup: WG569734

Tune ID: WG569734-01
Run Date: 05/20/2016
Run Time: 15:35
File ID: 17M021254
Cal ID: HPMS17 - 20-MAY-16

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	17.5	8486	PASS
75.0	95.0	30.0	60.0	48.4	23525	PASS
95.0	95.0	100	100	100	48608	PASS
96.0	95.0	5.00	9.00	6.54	3178	PASS
173	174	0	2.00	0.968	436	PASS
174	95.0	50.0	100	92.6	45024	PASS
175	174	5.00	9.00	7.27	3274	PASS
176	174	95.0	101	96.7	43557	PASS
177	176	5.00	9.00	6.52	2838	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG569734-02	STD-CCV	01	05/20/2016 16:13	
WG569734-03	STD	01	05/20/2016 16:52	
WG569734-04	STD	01	05/20/2016 17:12	
WG569734-05	STD	01	05/20/2016 17:31	
WG569734-06	STD	01	05/20/2016 17:51	
WG569734-07	STD	01	05/20/2016 18:10	
WG569734-08	STD	01	05/20/2016 18:30	
WG569734-09	STD	01	05/20/2016 18:50	
WG569734-10	STD	01	05/20/2016 19:09	
WG569734-11	STD	01	05/20/2016 19:29	
WG569734-12	SSCV	01	05/20/2016 20:08	
WG569773-01	BLANK	01	05/20/2016 20:48	
WG569773-02	LCS	01	05/20/2016 21:07	
L16050763-02	50WW07MS-051116	01	05/20/2016 21:27	
L16050763-03	50WW07MSD-051116	01	05/20/2016 21:47	
L16050763-15	50WW27MS-05126	01	05/20/2016 22:06	
L16050763-16	50WW27MSD-05126	01	05/20/2016 22:26	
L16050763-01	50WW07-051116	01	05/20/2016 23:05	
L16050763-14	50WW27-05126	01	05/20/2016 23:25	
L16050763-04	50WW28-051116	01	05/20/2016 23:44	
L16050763-05	50WW20-051116	01	05/21/2016 00:04	
L16050763-06	50WW05-051116	01	05/21/2016 00:24	
L16050763-07	50WW05FD-051116	01	05/21/2016 00:44	
L16050763-09	50WW01-051216	01	05/21/2016 01:23	
L16050763-10	50WW09-051216	01	05/21/2016 01:43	
L16050763-12	50WW10FD-051216	01	05/21/2016 02:23	
L16050763-13	50WW15-051216	01	05/21/2016 02:42	

TUNE - Modified 03/06/2008
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Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

Login Number: L16050763
Instrument: HPMS17
Analyst: ADC
Workgroup: WG569734

Tune ID: WG569734-01
Run Date: 05/20/2016
Run Time: 15:35
File ID: 17M021254
Cal ID: HPMS17 20-MAY-16

Lab ID	Client ID	Tag	Date Analyzed	Q
L16050763-17	50WW21-051216	01	05/21/2016 03:02	
L16050763-18	50WW21FD-051216	01	05/21/2016 03:22	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4775583
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050763
Instrument: HPMS17
Analyst: JDS
Workgroup: WG569788

Tune ID: WG569788-01
Run Date: 05/21/2016
Run Time: 13:56
File ID: 17M021294
Cal ID: HPMS17 - 20-MAY-16

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	16.9	9055	PASS
75.0	95.0	30.0	60.0	47.3	25336	PASS
95.0	95.0	100	100	100	53523	PASS
96.0	95.0	5.00	9.00	6.56	3511	PASS
173	174	0	2.00	1.04	525	PASS
174	95.0	50.0	100	94.7	50707	PASS
175	174	5.00	9.00	7.06	3582	PASS
176	174	95.0	101	95.9	48648	PASS
177	176	5.00	9.00	6.71	3263	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG569788-02	CCV	01	05/21/2016 14:41	
WG569789-01	BLANK	01	05/21/2016 15:23	
WG569789-02	LCS	01	05/21/2016 16:02	
L16050763-08	50WW16-051116	01	05/21/2016 18:00	
L16050763-11	50WW10-051216	01	05/21/2016 18:20	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4775583
Report generated 05/26/2016 09:47

Calibration Table Report
Method: A9FOOWT.M
Title: Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Calibration: Thu Aug 20 11:41:47 2015
Curve: WG527475
Calibration Files

	Compound		5 11M08235.D	20 11M08236.D	50 11M08237.D	100 11M08238.D	200 11M08239.D	300 11M08240.D	400 11M08241.D	500 11M08242.D	Avg	%RSD	Linear	Quad
I	Fluorobenzene	ISTD												
T	Acetonitrile		0.024	0.022	0.018	0.018	0.018	0.018	0.018	0.018	0.019	13.425		
T	3-Chloro-1-propene		0.380	0.372	0.371	0.380	0.375	0.379	0.368	0.385	0.376	1.470		
T	2-Chloro-1,3-butadiene		0.421	0.418	0.426	0.444	0.450	0.482	0.477	0.496	0.452	6.648		
T	Methacrylonitrile		0.124	0.115	0.112	0.114	0.112	0.114	0.120	0.119	0.116	3.530		
T	Isobutyl Alcohol			0.006	0.006	0.006	0.005	0.006	0.006	0.006	0.006	5.929		
T	1-Butanol				0.003	0.003	0.003	0.003	0.003	0.003	0.003	5.214		
T	Cyclohexanone			0.031	0.028	0.031	0.030	0.027	0.028	0.026	0.029	6.768		
T	2-Nitropropane				0.028	0.032	0.035	0.039	0.042	0.044	0.037	16.955	0.996	
T	Ethyl Acetate		0.133	0.145	0.133	0.140	0.137	0.136	0.141	0.139	0.138	3.039		
T	Methyl methacrylate		0.151	0.161	0.151	0.158	0.158	0.161	0.170	0.172	0.160	4.681		
I	Chlorobenzene-d5	ISTD												
I	1,4-Dichlorobenzene-d4	ISTD												

Thu Aug 20 11:49:17 2015

Calibration Table Report
Method: 8260WT.M
Title: 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Calibration: Sat May 14 18:45:57 2016
Curve: WG568769
Calibration Files

	Compound	0.3 11M11837.D	0.4 11M11838.D	1 11M11839.D	2 11M11840.D	5 11M11841.D	20 11M11842.D	50 11M11843.D	100 11M11844.D	200 11M11845.D	300 11M11846.D	Avg	%RSD	Linear	Quadratic
I	Fluorobenzene	ISTD													
T	Dichlorodifluoromethane			0.345	0.368	0.326	0.431	0.400	0.424	0.417	0.424	0.392	10.308		
P	Chloromethane			0.348	0.363	0.289	0.310	0.276	0.296	0.305	0.324	0.314	9.474		
C	Vinyl Chloride		0.275	0.241	0.249	0.244	0.268	0.250	0.271	0.271	0.276	0.261	5.458		
T	1,3-Butadiene					0.242	0.284	0.269	0.264	0.256	0.240	0.259	6.530		
T	Bromomethane			0.167	0.174	0.164	0.180	0.165	0.182	0.194	0.206	0.179	8.292		
T	Chloroethane			0.164	0.165	0.151	0.174	0.161	0.171	0.173	0.181	0.167	5.524		
T	Trichlorofluoromethane		0.514	0.523	0.537	0.496	0.552	0.498	0.524	0.514	0.514	0.519	3.376		
T	Diethyl ether			0.189	0.191	0.195	0.196	0.188	0.193		0.192	0.192	1.552		
T	Isoprene					0.299	0.331	0.317	0.323	0.325	0.325	0.320	3.522		
T	Acrolein			0.013	0.022	0.024	0.024	0.024	0.025		0.027	0.023	19.436	0.999	
T	1,1,2-Trichloro-1,2,2-Trifluor			0.261	0.245	0.234	0.268	0.245	0.252	0.254	0.257	0.252	4.225		
T	Acetone					0.063	0.067	0.058	0.057	0.057	0.054	0.059	7.931		
C	1,1-Dichloroethene		0.459	0.452	0.460	0.429	0.492	0.441	0.464	0.461	0.461	0.458	3.810		
T	Tert-Butyl Alcohol			0.014	0.015	0.017	0.018	0.017	0.017		0.017	0.016	9.673		
T	Dimethyl Sulfide					0.169	0.185	0.186	0.185	0.188	0.184	0.183	3.765		
T	Iodomethane				0.043	0.072	0.164	0.206	0.217	0.219	0.208	0.162	45.603		0.999
T	Methyl acetate				0.182	0.317	0.215	0.178	0.176	0.169	0.168	0.201	26.745		1.000
T	Methylene Chloride			0.239	0.256	0.230	0.243	0.224	0.232	0.234	0.238	0.237	4.076		
T	Carbon Disulfide			0.737	0.762	0.714	0.798	0.783	0.783	0.782	0.770	0.766	3.624		
T	Acrylonitrile			0.072	0.069	0.075	0.085	0.081	0.085		0.090	0.080	9.576		
T	Methyl Tert Butyl Ether			0.568	0.546	0.564	0.650	0.585	0.606	0.612	0.595	0.591	5.543		
T	trans-1,2-Dichloroethene		0.288	0.230	0.264	0.229	0.263	0.242	0.251	0.254	0.260	0.253	7.263		
T	n-Hexane				0.424	0.377	0.450	0.431	0.426	0.424	0.422	0.422	5.186		
T	Diisopropyl ether			1.034	1.075	1.083	1.055	1.046	1.062		1.015	1.053	2.218		
T	Vinyl Acetate					0.235	0.391	0.393	0.395	0.430	0.431	0.379	19.260	0.999	
P	1,1-Dichloroethane		0.463	0.517	0.527	0.505	0.535	0.495	0.513	0.511	0.508	0.508	4.023		
T	Ethyl-Tert-Butyl ether			0.815	0.854	0.881	0.876	0.855	0.873		0.844	0.857	2.667		
T	2-Butanone					0.079	0.097	0.087	0.092	0.092	0.091	0.090	6.720		
T	Propionitrile			0.023	0.025	0.026	0.029	0.027	0.027		0.027	0.026	7.381		
T	2,2-Dichloropropane		0.325	0.372	0.435	0.395	0.406	0.386	0.422	0.418	0.419	0.398	8.479		
T	cis-1,2-Dichloroethene		0.276	0.266	0.289	0.269	0.294	0.271	0.280	0.284	0.285	0.279	3.456		
C	Chloroform	0.587	0.483	0.491	0.514	0.480	0.509	0.470	0.486	0.489	0.482	0.499	6.767		
T	1-Bromopropane			0.014	0.041	0.045	0.047	0.048	0.049	0.050	0.050	0.043	28.190	1.000	
T	Bromochloromethane		0.115	0.140	0.169	0.167	0.188	0.172	0.179	0.180	0.181	0.166	14.065		
T	Tetrahydrofuran			0.074	0.061	0.058	0.067	0.061	0.062		0.059	0.063	8.769		
S	Dibromofluoromethane				0.251	0.266	0.284	0.268	0.284	0.285	0.278	0.274	4.605		
T	1,1,1-Trichloroethane		0.475	0.478	0.508	0.471	0.515	0.477	0.502	0.499	0.495	0.491	3.293		
T	Cyclohexane		0.477	0.485	0.547	0.509	0.574	0.551	0.560	0.558	0.556	0.535	6.606		
T	1,1-Dichloropropene		0.342	0.350	0.346	0.332	0.370	0.339	0.358	0.359	0.362	0.351	3.562		
T	Carbon Tetrachloride		0.409	0.457	0.522	0.465	0.518	0.473	0.496	0.492	0.486	0.480	7.177		
T	Tert-Amyl-Methyl ether			0.565	0.596	0.603	0.611	0.588	0.605		0.6	0.59537	2.5818		
S	1,2-Dichloroethane-d4			0.315	0.304	0.32	0.326	0.303	0.319	0.31	0.298	0.31197	3.15125		
T	1,2-Dichloroethane		0.388	0.391	0.419	0.395	0.441	0.402	0.413	0.409	0.391	0.40536	4.2274		
T	Benzene		1.058	0.952	1.016	0.923	0.996	0.908	0.943	0.931	0.914	0.96002	5.38884		
T	Trichloroethene		0.308	0.317	0.329	0.306	0.322	0.294	0.313	0.309	0.311	0.31204	3.21019		
T	Methylcyclohexane		0.332	0.37	0.389	0.35	0.411	0.401	0.4	0.405	0.407	0.3851	7.28708		
C	1,2-Dichloropropane		0.259	0.262	0.273	0.254	0.276	0.257	0.268	0.27	0.273	0.26575	2.95636		
T	1,4-Dioxane				0.001	0.001	0.002	0.001	0.002		0.002	0.0014	19.4617	0.999	
T	Bromodichloromethane		0.346	0.346	0.373	0.362	0.4	0.369	0.387	0.389	0.385	0.37307	5.09783		
T	Dibromomethane		0.118	0.136	0.135	0.137	0.149	0.137	0.146	0.145	0.144	0.13848	6.69192		
T	2-Chloroethyl Vinyl Ether					0.112	0.138	0.128	0.136	0.138	0.135	0.13098	7.7176		
T	4-Methyl-2-Pentanone					0.06	0.08	0.073	0.076	0.077	0.077	0.07387	9.67651		
T	cis-1,3-Dichloropropene		0.326	0.338	0.358	0.357	0.406	0.379	0.395	0.401	0.399	0.37315	7.91395		
T	Dimethyl Disulfide					0.185	0.229	0.227	0.233	0.238	0.235	0.22454	8.74309		

I	Chlorobenzene-d5	ISTD											
S	Toluene-d8				1.101	1.093	1.115	1.056	1.103	1.092	1.044	1.08625	2.42896	
C	Toluene		1.309	1.253	1.287	1.269	1.347	1.249	1.287	1.241	1.149	1.2656	4.33323	
T	Ethyl Methacrylate			0.234	0.233	0.25	0.299	0.285	0.289	0.291	0.281	0.27024	9.93745	
T	trans-1,3-Dichloropropene			0.335	0.388	0.387	0.448	0.418	0.432	0.43	0.412	0.40623	8.82781	
T	1,1,2-Trichloroethane		0.222	0.201	0.243	0.21	0.246	0.221	0.228	0.227	0.221	0.22442	6.30977	
T	2-Hexanone					0.137	0.179	0.165	0.172	0.172	0.165	0.16482	8.91224	
T	1,3-Dichloropropane		0.337	0.338	0.351	0.355	0.396	0.361	0.374	0.373	0.358	0.36039	5.16222	
T	Tetrachloroethene		0.274	0.287	0.317	0.286	0.306	0.286	0.3	0.299	0.294	0.29431	4.41886	
T	Dibromochloromethane		0.283	0.297	0.336	0.33	0.378	0.354	0.372	0.372	0.359	0.3423	9.88235	
T	1,2-Dibromoethane		0.232	0.182	0.228	0.214	0.243	0.224	0.233	0.235	0.232	0.22485	7.92714	
T	1-Chlorohexane		0.37	0.399	0.414	0.391	0.442	0.429	0.44	0.438	0.432	0.41726	6.09034	
P	Chlorobenzene		0.927	0.917	0.998	0.932	0.976	0.909	0.93	0.902	0.853	0.92715	4.48215	
T	1,1,1,2-Tetrachloroethane		0.341	0.361	0.405	0.366	0.388	0.371	0.384	0.385	0.376	0.37515	4.87731	
C	Ethylbenzene		0.453	0.457	0.512	0.463	0.495	0.466	0.482	0.479	0.472	0.47542	3.94078	
T	m-,p-Xylene		0.619	0.583	0.605	0.564	0.604	0.568	0.579	0.559	0.522	0.57798	5.08853	
T	o-Xylene		0.539	0.549	0.574	0.539	0.6	0.561	0.574	0.57	0.557	0.56249	3.43829	
T	Styrene		0.865	0.848	0.897	0.918	1.018	0.955	0.985	0.959	0.917	0.92933	5.96246	
P	Bromoform			0.172	0.189	0.185	0.226	0.21	0.225	0.226	0.228	0.20747	10.9157	
T	Isopropylbenzene		1.515	1.456	1.567	1.46	1.592	1.493	1.534	1.449	1.323	1.48754	5.34769	
I	1,4-Dichlorobenzene-d4	ISTD											
P	1,1,2,2-Tetrachloroethane		0.288	0.357	0.369	0.371	0.441	0.396	0.412	0.428	0.442	0.38931	12.6902	
S	p-Bromofluorobenzene				0.772	0.784	0.794	0.716	0.767	0.789	0.773	0.77065	3.38935	
T	1,2,3-Trichloropropane			0.087	0.129	0.138	0.151	0.137	0.142	0.148	0.148	0.13515	15.3522	0.999
T	trans-1,4-Dichloro-2-Butene			0.105	0.117	0.124	0.177	0.178	0.184	0.192	0.193	0.15883	23.0996	0.999
T	n-Propylbenzene		2.87	2.8	3.077	2.949	3.134	2.886	2.979	2.836	2.526	2.89527	6.10377	
T	Bromobenzene	0.663	0.778	0.81	0.798	0.765	0.784	0.718	0.752	0.769	0.76	0.75973	5.57443	
T	1,3,5-Trimethylbenzene		2.338	2.056	2.263	2.172	2.357	2.166	2.252	2.223	2.059	2.20939	4.86261	
T	2-Chlorotoluene		2.158	2.096	2.122	2.033	2.128	1.936	2.002	1.954	1.82	2.0279	5.4704	
T	4-Chlorotoluene		1.782	1.755	1.937	1.808	1.916	1.763	1.832	1.838	1.717	1.8165	4.03452	
T	a-Methylstyrene			1	1.066	1.101	1.241	1.231	1.235	1.242	1.208	1.16555	8.18507	
T	tert-Butylbenzene		0.378	0.44	0.48	0.489	0.498	0.458	0.483	0.49	0.497	0.46809	8.31778	
T	1,2,4-Trimethylbenzene		2.159	2.195	2.274	2.295	2.472	2.234	2.309	2.244	2.067	2.24981	4.97706	
T	sec-Butylbenzene			2.593	2.734	2.647	2.87	2.634	2.723	2.617	2.404	2.65291	5.05975	
T	p-Isopropyltoluene			2.247	2.592	2.45	2.641	2.43	2.506	2.404	2.226	2.43674	6.05243	
T	1,3-Dichlorobenzene		1.487	1.488	1.538	1.46	1.53	1.398	1.451	1.446	1.406	1.46732	3.33475	
T	1,4-Dichlorobenzene	1.482	1.601	1.511	1.569	1.484	1.538	1.404	1.456	1.434	1.395	1.4873	4.59741	
T	n-Butylbenzene		2.048	2.099	2.295	2.049	2.32	2.134	2.224	2.136	2.021	2.14721	5.09289	
T	1,2-Dichlorobenzene	1.33	1.26	1.333	1.432	1.33	1.406	1.296	1.343	1.326	1.31	1.33665	3.71841	
T	1,2-Dibromo-3-Chloropropane				0.057	0.079	0.096	0.081	0.086	0.087	0.091	0.08248	15.3444	0.999
T	1,2,4-Trichlorobenzene		0.927	0.903	0.957	0.956	1.042	0.972	0.998	1.002	1.047	0.97808	4.96993	
T	Hexachlorobutadiene		0.393	0.381	0.451	0.418	0.447	0.415	0.441	0.442	0.49	0.43089	7.64497	
T	Naphthalene		1.885	1.633	1.765	1.712	2.026	1.824	1.878	1.821	1.794	1.81543	6.15168	
T	1,2,3-Trichlorobenzene	0.854	0.957	0.865	0.918	0.834	0.946	0.86	0.889	0.912	0.943	0.89764	4.8559	

Tue May 17 13:57:02 2016

Response Factor Report HPMS17

Method Path : D:\MassHunter\GCMS\1\methods\
Method File : 826VMS.M
Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
Last Update : Sat May 21 11:03:39 2016
Response Via : Initial Calibration
Curve: WG569734
Calibration Files
0.3 =17M021258.D 0.4 =17M021259.D 1 =17M021260.D 2 =17M021261.D 5 =17M021262.D 20 =17M021263.D 50 =17M02125
100 =17M021264.D 200 =17M021265.D 300 =17M021266.D

		Compound	0.3	0.4	1	2	5	20	50	100	200	300	Avg	%RSD	Linear	Quadratic
1)	I	Fluorobenzene	----------	ISTD	----------											
2)	T	Dichlorodifluo...			0.332	0.333	0.325	0.368	0.395	0.390	0.391	0.374	0.364	8.02		
3)	P	Chloromethane			0.333	0.327	0.315	0.309	0.327	0.323	0.336	0.332	0.325	2.82		
4)	C	Vinyl Chloride		0.311	0.318	0.324	0.307	0.320	0.339	0.338	0.344	0.330	0.326	3.96#		
5)	T	1,3-Butadiene			0.256	0.256	0.245	0.255	0.282	0.268	0.271	0.267	0.262	4.46		
6)	T	Bromomethane			0.249	0.233	0.201	0.184	0.202	0.190	0.198	0.191	0.206	11.09		
7)	T	Chloroethane			0.171	0.162	0.162	0.162	0.147	0.123	0.123	0.117	0.146	14.85		
8)	T	Trichlorofluor...		0.426	0.453	0.442	0.436	0.443	0.466	0.446	0.334		0.431	9.47		
9)	T	Diethyl ether			0.163	0.172	0.156	0.163	0.169	0.176	0.169	0.169	0.167	3.66		
10)	C	1,1-Dichloroet...		0.438	0.420	0.418	0.392	0.391	0.410	0.399	0.405	0.393	0.407	3.91#		
11)	T	Carbon Disulfide		0.857	0.784	0.739	0.713	0.733	0.800	0.769	0.780	0.776	0.772	5.49		
12)	T	1,1,2-Trichlor...		0.244	0.248	0.252	0.248	0.249	0.263	0.252	0.255	0.245	0.251	2.24		
13)	T	Iodomethane			0.106	0.159	0.231	0.332	0.353	0.394	0.389	0.389	0.294	38.71	0.999	
14)	T	Acrolein					0.029	0.029	0.029	0.033	0.030	0.029	0.030	5.08		
15)	T	Methylene Chlo...		0.317	0.290	0.284	0.258	0.260	0.269	0.264	0.261	0.253	0.273	7.63		
16)	T	Acetone					0.040	0.041	0.039	0.043	0.038	0.036	0.040	5.66		
17)	T	trans-1,2-Dich...		0.280	0.268	0.259	0.250	0.251	0.264	0.272	0.277	0.271	0.266	4.05		
18)	T	Methyl acetate			0.112	0.127	0.119	0.122	0.131	0.145	0.135	0.132	0.128	8.18		
19)	T	Methyl Tert Bu...		0.569	0.566	0.600	0.538	0.543	0.575	0.620	0.588	0.577	0.575	4.47		
20)	P	1,1-Dichloroet...		0.502	0.505	0.497	0.476	0.488	0.512	0.500	0.507	0.495	0.498	2.16		
21)	T	Acrylonitrile				0.054	0.051	0.052	0.054	0.059	0.055	0.055	0.054	4.90		
22)	T	Vinyl Acetate					0.002	0.012	0.015	0.022	0.022	0.026	0.017	54.42		0.997
23)	T	cis-1,2-Dichlo...		0.286	0.298	0.294	0.283	0.289	0.304	0.304	0.306	0.302	0.296	2.88		
24)	T	2,2-Dichloropr...		0.391	0.394	0.388	0.372	0.378	0.419	0.402	0.408	0.398	0.394	3.69		
25)	T	Cyclohexane		0.399	0.424	0.408	0.402	0.405	0.451	0.432	0.442	0.436	0.422	4.59		
26)	T	Bromochloromet...			0.179	0.182	0.175	0.179	0.185	0.187	0.180	0.174	0.180	2.41		
27)	C	Chloroform	0.497	0.493	0.510	0.496	0.478	0.482	0.506	0.498	0.498	0.486	0.495	2.02#		
28)	T	Carbon Tetrach...		0.272	0.329	0.349	0.369	0.388	0.415	0.412	0.422	0.412	0.374	13.42		
29)	S	Dibromofluorom...					0.255	0.248	0.271	0.282	0.268		0.265	4.97		
30)	T	1,1,1-Trichlor...		0.434	0.441	0.440	0.427	0.433	0.456	0.449	0.454	0.441	0.442	2.20		
31)	T	1,1-Dichloropr...		0.368	0.362	0.352	0.347	0.347	0.370	0.366	0.372	0.364	0.361	2.65		
32)	T	2-Butanone					0.058	0.062	0.060	0.070	0.064	0.063	0.063	6.47		
33)	T	Benzene		1.098	1.124	1.104	1.059	1.069	1.117	1.097	1.106	1.078	1.095	2.00		
34)	S	1,2-Dichloroet...					0.252	0.232	0.246	0.257	0.237		0.245	4.27		
35)	T	1,2-Dichloroet...		0.301	0.314	0.321	0.301	0.303	0.311	0.322	0.311	0.305	0.310	2.59		
36)	T	Methylcyclohexane		0.447	0.428	0.427	0.416	0.409	0.462	0.439	0.449	0.444	0.436	3.89		
37)	T	Trichloroethene		0.411	0.416	0.406	0.369	0.359	0.367	0.342	0.337	0.322	0.370	9.29		

38)	T	Dibromomethane		0.140	0.149	0.154	0.144	0.144	0.150	0.158	0.153	0.150	0.149	3.71		
39)	C	1,2-Dichloropr...		0.297	0.280	0.286	0.279	0.282	0.293	0.294	0.295	0.290	0.288	2.46#		
40)	T	Bromodichlorom...		0.307	0.322	0.343	0.333	0.351	0.370	0.379	0.376	0.369	0.350	7.28		
41)	T	1,4-Dioxane						0.001	0.001	0.002	0.002	0.002	0.001	14.13		
42)	T	2-Chloroethyl ...			0.069	0.085	0.076	0.085	0.092	0.109	0.105	0.107	0.091	16.48	0.997	
43)	T	cis-1,3-Dichlo...		0.332	0.336	0.361	0.351	0.382	0.412	0.430	0.429	0.422	0.384	10.53		
44)	T	4-Methyl-2-Pen...					0.049	0.054	0.052	0.062	0.057	0.057	0.055	8.31		
45)	T	trans-1,3-Dich...			0.250	0.271	0.269	0.307	0.333	0.361	0.354	0.347	0.312	13.97		
46)	I	Chlorobenzene-d5	----------ISTD----------													
47)	S	Toluene-d8						1.366	1.263	1.387	1.358	1.302	1.335	3.84		
48)	C	Toluene		1.656	1.610	1.575	1.550	1.561	1.635	1.575	1.574	1.570	1.590	2.26#		
49)	T	Tetrachloroethene		0.501	0.485	0.461	0.439	0.441	0.465	0.452	0.459	0.459	0.462	4.29		
50)	T	1,1,2-Trichlor...		0.259	0.261	0.267	0.256	0.256	0.263	0.276	0.264	0.265	0.263	2.36		
51)	T	Dibromochlorom...		0.252	0.267	0.308	0.299	0.340	0.363	0.388	0.378	0.386	0.331	15.66	0.999	
52)	T	1,3-Dichloropr...		0.422	0.426	0.428	0.405	0.416	0.422	0.440	0.424	0.424	0.423	2.17		
53)	T	1,2-Dibromoethane		0.249	0.250	0.272	0.253	0.260	0.263	0.281	0.269	0.270	0.263	4.12		
54)	T	2-Hexanone				0.139	0.116	0.124	0.121	0.146	0.135	0.138	0.131	8.46		
55)	P	Chlorobenzene		1.109	1.086	1.051	0.999	1.010	1.046	1.037	1.037	1.025	1.045	3.31		
56)	T	1-Chlorohexane			0.077	0.080	0.082	0.085	0.093	0.090	0.092	0.093	0.086	7.13		
57)	C	Ethylbenzene		0.561	0.564	0.549	0.533	0.537	0.557	0.550	0.551	0.541	0.549	1.93#		
58)	T	1,1,1,2-Tetrac...		0.315	0.353	0.346	0.347	0.369	0.387	0.390	0.390	0.386	0.365	7.20		
59)	T	m-,p-Xylene		0.659	0.654	0.648	0.645	0.645	0.671	0.663	0.649	0.621	0.651	2.18		
60)	T	o-Xylene		0.658	0.641	0.636	0.611	0.626	0.644	0.646	0.644	0.639	0.638	2.08		
61)	T	Styrene		0.951	0.958	0.987	0.988	1.029	1.059	1.080	1.068	1.044	1.018	4.75		
62)	P	Bromoform		0.130	0.154	0.166	0.178	0.209	0.221	0.256	0.250	0.248	0.201	22.92	0.998	
63)	T	Isopropylbenzene		1.681	1.653	1.632	1.627	1.644	1.699	1.689	1.669	1.591	1.654	2.08		
64)	I	1,4-Dichlorobenzen...	----------ISTD----------													
65)	T	1,3,5-Trimethy...			2.500	2.596	2.520	2.534	2.587	2.656	2.523	2.561	2.490	2.552	2.09		
66)	S	p-Bromofluorob...						0.868	0.836	0.893	0.873	0.851	0.864	2.52		
67)	T	Bromobenzene		0.984	0.883	0.892	0.872	0.826	0.841	0.862	0.841	0.855	0.871	0.873	5.04	
68)	T	n-Propylbenzene			3.445	3.429	3.378	3.402	3.452	3.559	3.359	3.351	3.254	3.403	2.47	
69)	P	1,1,2,2-Tetrac...				0.156	0.183	0.205	0.306	0.316	0.459	0.474	0.510	0.326	43.09	0.996
70)	T	2-Chlorotoluene			2.164	2.203	2.096	2.076	2.086	2.130	2.025	2.063	2.050	2.099	2.71	
71)	T	1,2,3-Trichlor...				0.145	0.150	0.133	0.142	0.138	0.148	0.142	0.141	0.142	3.71	
72)	T	trans-1,4-Dich...				0.046	0.051	0.052	0.059	0.067	0.086	0.087	0.095	0.068	27.88	0.998
73)	T	1,2,4-Trimethy...			2.515	2.553	2.526	2.525	2.588	2.634	2.551	2.584	2.509	2.554	1.61	
74)	T	4-Chlorotoluene			2.284	2.244	2.174	2.155	2.141	2.206	2.097	2.148	2.138	2.176	2.69	
75)	T	tert-Butylbenzene			0.454	0.480	0.488	0.475	0.481	0.494	0.474	0.490	0.486	0.480	2.46	
76)	T	sec-Butylbenzene			3.193	3.254	3.199	3.168	3.182	3.286	3.130	3.145	2.996	3.173	2.60	
77)	T	p-Isopropyltol...			2.597	2.589	2.601	2.583	2.631	2.777	2.681	2.709	2.589	2.640	2.59	
78)	T	1,3-Dichlorobe...			1.721	1.657	1.634	1.548	1.546	1.568	1.536	1.537	1.533	1.587	4.27	
79)	T	1,4-Dichlorobe...		2.150	1.840	1.686	1.600	1.524	1.508	1.531	1.516	1.517	1.502	1.637	12.82	
80)	T	n-Butylbenzene			2.565	2.443	2.400	2.409	2.405	2.559	2.476	2.487	2.400	2.460	2.68	
81)	T	1,2-Dichlorobe...		1.801	1.546	1.557	1.501	1.417	1.406	1.416	1.427	1.403	1.400	1.487	8.45	
82)	T	1,2-Dibromo-3-...					0.072	0.063	0.068	0.068	0.089	0.085	0.089	0.076	14.16	
83)	T	Hexachlorobuta...			0.584	0.541	0.534	0.520	0.527	0.595	0.598	0.639	0.663	0.578	8.84	
84)	T	1,2,4-Trichlor...			1.250	1.063	1.075	1.053	1.023	1.062	1.100	1.135	1.153	1.102	6.26	
85)	T	Naphthalene			1.579	1.554	1.660	1.587	1.623	1.665	1.846	1.809	1.809	1.681	6.63	
86)	T	1,2,3-Trichlor...			1.008	0.939	0.990	0.946	0.921	0.926	0.956	0.997	1.012	0.966	3.72	

(#) = Out of Range

826VMS.M Mon May 23 09:54:07 2016

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number:L16050763 Run Date:05/13/2016 Sample ID:WG568769-12
Instrument ID:HPMS11 Run Time:20:30 Method:8260B
File ID:11M11848 Analyst:JDS QC Key:DOD4
ICal Workgroup:WG568769 Cal ID:HPMS11 - 13-MAY-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	47.6	ug/L	0.475	4.80	20	
1,1-Dichloroethene	CCC	50.0	47.5	ug/L	0.435	4.90	20	
1,2-Dichloropropane	CCC	50.0	52.8	ug/L	0.281	5.60	20	
Ethylbenzene	CCC	50.0	52.4	ug/L	0.498	4.80	20	
Toluene	CCC	50.0	53.8	ug/L	1.36	7.50	20	
Vinyl Chloride	CCC	50.0	56.1	ug/L	0.292	12.2	20	
Bromoform	SPCC	50.0	49.8	ug/L	0.207	0.300	20	
Chlorobenzene	SPCC	50.0	53.3	ug/L	0.988	6.60	20	
Chloromethane	SPCC	50.0	55.1	ug/L	0.346	10.2	20	
1,1-Dichloroethane	SPCC	50.0	48.5	ug/L	0.493	3.00	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	54.9	ug/L	0.428	9.90	20	
Acetone		50.0	49.7	ug/L	0.0590	0.700	20	
Benzene		50.0	51.2	ug/L	0.983	2.40	20	
Bromobenzene		50.0	51.6	ug/L	0.785	3.30	20	
Bromochloromethane		50.0	53.9	ug/L	0.179	7.80	20	
Bromodichloromethane		50.0	49.5	ug/L	0.370	0.900	20	
Bromomethane		50.0	50.5	ug/L	0.181	1.00	20	
2-Butanone		50.0	50.3	ug/L	0.0904	0.700	20	
n-Butylbenzene		50.0	53.9	ug/L	2.31	7.80	20	
sec-Butylbenzene		50.0	55.9	ug/L	2.97	11.8	20	
tert-Butylbenzene		50.0	56.5	ug/L	0.529	13.1	20	
Carbon Disulfide		50.0	44.7	ug/L	0.685	10.6	20	
Carbon Tetrachloride		50.0	47.3	ug/L	0.454	5.30	20	
Dibromochloromethane		50.0	52.5	ug/L	0.360	5.10	20	
Chloroethane		50.0	58.9	ug/L	0.197	17.7	20	
2-Chlorotoluene		50.0	52.8	ug/L	2.14	5.50	20	
4-Chlorotoluene		50.0	55.4	ug/L	2.01	10.8	20	
1,2-Dibromo-3-Chloropropane		50.0	48.1	ug/L	0.0844	3.80	20	
1,2-Dibromoethane		50.0	52.6	ug/L	0.237	5.30	20	
Dibromomethane		50.0	48.0	ug/L	0.133	3.90	20	
1,2-Dichlorobenzene		50.0	53.6	ug/L	1.43	7.20	20	
1,3-Dichlorobenzene		50.0	52.7	ug/L	1.55	5.40	20	
1,4-Dichlorobenzene		50.0	53.0	ug/L	1.58	6.10	20	
Dichlorodifluoromethane		50.0	56.6	ug/L	0.443	13.2	20	
1,2-Dichloroethane		50.0	47.9	ug/L	0.388	4.20	20	
cis-1,2-Dichloroethene		50.0	53.2	ug/L	0.297	6.30	20	
trans-1,2-Dichloroethene		50.0	52.1	ug/L	0.264	4.30	20	
1,3-Dichloropropane		50.0	56.3	ug/L	0.406	12.6	20	
2,2-Dichloropropane		50.0	45.6	ug/L	0.362	8.90	20	
cis-1,3-Dichloropropene		50.0	57.6	ug/L	0.430	15.2	20	
trans-1,3-Dichloropropene		50.0	52.1	ug/L	0.423	4.20	20	
1,1-Dichloropropene		50.0	50.1	ug/L	0.352	0.200	20	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4775582
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L16050763 Run Date: 05/13/2016 Sample ID: WG568769-12
Instrument ID: HPMS11 Run Time: 20:30 Method: 8260B
File ID: 11M11848 Analyst: JDS QC Key: DOD4
ICal Workgroup: WG568769 Cal ID: HPMS11 - 13-MAY-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2-Hexanone		50.0	52.2	ug/L	0.172	4.40	20	
Hexachlorobutadiene		50.0	55.9	ug/L	0.482	11.8	20	
Isopropylbenzene		50.0	54.2	ug/L	1.61	8.50	20	
p-Isopropyltoluene		50.0	54.7	ug/L	2.67	9.40	20	
4-Methyl-2-Pentanone		50.0	52.6	ug/L	0.0777	5.10	20	
Methylene Chloride		50.0	52.0	ug/L	0.246	4.00	20	
Naphthalene		50.0	51.1	ug/L	1.86	2.30	20	
n-Propylbenzene		50.0	56.6	ug/L	3.28	13.2	20	
Styrene		50.0	55.0	ug/L	1.02	9.90	20	
1,1,1,2-Tetrachloroethane		50.0	51.0	ug/L	0.383	2.10	20	
Tetrachloroethene		50.0	52.2	ug/L	0.307	4.40	20	
1,2,3-Trichlorobenzene		50.0	54.1	ug/L	0.971	8.10	20	
1,2,4-Trichlorobenzene		50.0	55.4	ug/L	1.08	10.9	20	
1,1,1-Trichloroethane		50.0	48.1	ug/L	0.472	3.90	20	
1,1,2-Trichloroethane		50.0	52.8	ug/L	0.237	5.50	20	
Trichloroethene		50.0	52.3	ug/L	0.327	4.60	20	
Trichlorofluoromethane		50.0	47.5	ug/L	0.494	4.90	20	
1,2,3-Trichloropropane		50.0	50.1	ug/L	0.147	0.300	20	
1,2,4-Trimethylbenzene		50.0	53.8	ug/L	2.42	7.70	20	
1,3,5-Trimethylbenzene		50.0	55.1	ug/L	2.44	10.3	20	
o-Xylene		50.0	54.7	ug/L	0.615	9.40	20	
m-,p-Xylene		100	107	ug/L	0.620	7.20	20	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4775582
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L16050763 Run Date: 05/20/2016 Sample ID: WG569734-12
Instrument ID: HPMS17 Run Time: 20:08 Method: 8260B
File ID: 17M021268 Analyst: ADC QC Key: DOD4
ICal Workgroup: WG569734 Cal ID: HPMS17 - 20-MAY-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	46.7	ug/L	0.462	6.50	20	
1,1-Dichloroethene	CCC	50.0	41.8	ug/L	0.341	16.4	20	
1,2-Dichloropropane	CCC	50.0	49.7	ug/L	0.287	0.600	20	
Ethylbenzene	CCC	50.0	48.8	ug/L	0.537	2.30	20	
Toluene	CCC	50.0	48.7	ug/L	1.55	2.70	20	
Vinyl Chloride	CCC	50.0	44.5	ug/L	0.290	11.0	20	
Bromoform	SPCC	50.0	46.4	ug/L	0.219	7.30	20	
Chlorobenzene	SPCC	50.0	49.2	ug/L	1.03	1.50	20	
Chloromethane	SPCC	50.0	43.3	ug/L	0.282	13.5	20	
1,1-Dichloroethane	SPCC	50.0	44.7	ug/L	0.445	10.7	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	56.8	ug/L	0.438	13.7	20	
Acetone		50.0	50.8	ug/L	0.0402	1.60	20	
Benzene		50.0	47.3	ug/L	1.04	5.30	20	
Bromobenzene		50.0	48.6	ug/L	0.848	2.80	20	
Bromochloromethane		50.0	46.7	ug/L	0.168	6.60	20	
Bromodichloromethane		50.0	49.8	ug/L	0.349	0.400	20	
Bromomethane		50.0	38.8	ug/L	0.160	22.4	20	*
2-Butanone		50.0	51.9	ug/L	0.0649	3.80	20	
n-Butylbenzene		50.0	51.3	ug/L	2.52	2.60	20	
sec-Butylbenzene		50.0	51.5	ug/L	3.27	3.00	20	
tert-Butylbenzene		50.0	51.9	ug/L	0.498	3.70	20	
Carbon Disulfide		50.0	50.7	ug/L	0.783	1.30	20	
Carbon Tetrachloride		50.0	49.0	ug/L	0.367	2.00	20	
Dibromochloromethane		50.0	47.7	ug/L	0.355	4.70	20	
Chloroethane		50.0	38.7	ug/L	0.113	22.5	20	*
2-Chlorotoluene		50.0	50.7	ug/L	2.13	1.30	20	
4-Chlorotoluene		50.0	51.8	ug/L	2.25	3.60	20	
1,2-Dibromo-3-Chloropropane		50.0	56.1	ug/L	0.0856	12.2	20	
1,2-Dibromoethane		50.0	49.5	ug/L	0.260	1.10	20	
Dibromomethane		50.0	46.0	ug/L	0.137	8.00	20	
1,2-Dichlorobenzene		50.0	50.7	ug/L	1.51	1.30	20	
1,3-Dichlorobenzene		50.0	50.3	ug/L	1.60	0.500	20	
1,4-Dichlorobenzene		50.0	48.9	ug/L	1.60	2.20	20	
Dichlorodifluoromethane		50.0	33.9	ug/L	0.247	32.2	20	*
1,2-Dichloroethane		50.0	47.8	ug/L	0.297	4.30	20	
cis-1,2-Dichloroethene		50.0	48.9	ug/L	0.290	2.20	20	
trans-1,2-Dichloroethene		50.0	46.6	ug/L	0.247	6.90	20	
1,3-Dichloropropane		50.0	51.6	ug/L	0.437	3.30	20	
2,2-Dichloropropane		50.0	46.0	ug/L	0.363	8.00	20	
cis-1,3-Dichloropropene		50.0	55.3	ug/L	0.425	10.7	20	
trans-1,3-Dichloropropene		50.0	51.7	ug/L	0.322	3.50	20	
1,1-Dichloropropene		50.0	46.3	ug/L	0.334	7.50	20	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4775582
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L16050763 Run Date: 05/20/2016 Sample ID: WG569734-12
Instrument ID: HPMS17 Run Time: 20:08 Method: 8260B
File ID: 17M021268 Analyst: ADC QC Key: DOD4
ICal Workgroup: WG569734 Cal ID: HPMS17 - 20-MAY-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2-Hexanone		50.0	49.7	ug/L	0.131	0.600	20	
Hexachlorobutadiene		50.0	57.1	ug/L	0.660	14.1	20	
Isopropylbenzene		50.0	50.4	ug/L	1.67	0.800	20	
p-Isopropyltoluene		50.0	51.8	ug/L	2.73	3.60	20	
4-Methyl-2-Pentanone		50.0	51.0	ug/L	0.0565	2.10	20	
Methylene Chloride		50.0	44.4	ug/L	0.242	11.1	20	
Naphthalene		50.0	50.5	ug/L	1.70	1.10	20	
n-Propylbenzene		50.0	53.0	ug/L	3.61	5.90	20	
Styrene		50.0	50.7	ug/L	1.03	1.40	20	
1,1,1,2-Tetrachloroethane		50.0	51.7	ug/L	0.377	3.40	20	
Tetrachloroethene		50.0	46.8	ug/L	0.433	6.40	20	
1,2,3-Trichlorobenzene		50.0	52.6	ug/L	1.02	5.30	20	
1,2,4-Trichlorobenzene		50.0	52.8	ug/L	1.16	5.50	20	
1,1,1-Trichloroethane		50.0	47.1	ug/L	0.416	5.90	20	
1,1,2-Trichloroethane		50.0	49.1	ug/L	0.258	1.80	20	
Trichloroethene		50.0	45.4	ug/L	0.336	9.10	20	
Trichlorofluoromethane		50.0	30.5	ug/L	0.262	39.1	20	*
1,2,3-Trichloropropane		50.0	52.6	ug/L	0.150	5.20	20	
1,2,4-Trimethylbenzene		50.0	50.5	ug/L	2.58	1.10	20	
1,3,5-Trimethylbenzene		50.0	52.0	ug/L	2.65	4.00	20	
o-Xylene		50.0	50.5	ug/L	0.645	1.00	20	
m-,p-Xylene		100	101	ug/L	0.656	0.900	20	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4775582
Report generated 05/26/2016 09:47

Login Number: L16050763 Run Date: 05/21/2016 Sample ID: WG569785-02
Instrument ID: HPMS11 Run Time: 12:00 Method: 8260B
File ID: 11M12016 Analyst: JDS QC Key: DOD4
Workgroup (AAB#): WG569786 Cal ID: HPMS11 - 13-MAY-16
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	55.1	ug/L	0.550	10.3	20	
1,1-Dichloroethene	CCC	50.0	56.0	ug/L	0.513	12.0	20	
1,2-Dichloropropane	CCC	50.0	51.0	ug/L	0.271	1.97	20	
Ethylbenzene	CCC	50.0	50.6	ug/L	0.481	1.15	20	
Toluene	CCC	50.0	50.9	ug/L	1.29	1.81	20	
Vinyl Chloride	CCC	50.0	58.2	ug/L	0.303	16.4	20	
Bromoform	SPCC	50.0	54.5	ug/L	0.226	9.02	20	
Chlorobenzene	SPCC	50.0	51.6	ug/L	0.956	3.11	20	
Chloromethane	SPCC	50.0	51.0	ug/L	0.320	2.08	20	
1,1-Dichloroethane	SPCC	50.0	54.6	ug/L	0.555	9.25	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	46.4	ug/L	0.361	7.25	20	
Xylenes		150	153	ug/L	0.581	1.70	20	
Acetone		50.0	48.3	ug/L	0.0574	3.37	20	
Benzene		50.0	51.3	ug/L	0.986	2.66	20	
Bromobenzene		50.0	48.2	ug/L	0.733	3.58	20	
Bromochloromethane		50.0	58.1	ug/L	0.193	16.1	20	
Bromodichloromethane		50.0	59.0	ug/L	0.440	18.0	20	
Bromomethane		50.0	47.0	ug/L	0.168	6.04	20	
2-Butanone		50.0	47.2	ug/L	0.0846	5.68	20	
n-Butylbenzene		50.0	48.0	ug/L	2.06	3.97	20	
sec-Butylbenzene		50.0	48.7	ug/L	2.58	2.57	20	
tert-Butylbenzene		50.0	48.9	ug/L	0.458	2.24	20	
Carbon Disulfide		50.0	53.4	ug/L	0.818	6.76	20	
Carbon Tetrachloride		50.0	62.3	ug/L	0.598	24.7	20	*
Dibromochloromethane		50.0	56.3	ug/L	0.386	12.7	20	
Chloroethane		50.0	52.4	ug/L	0.175	4.81	20	
2-Chlorotoluene		50.0	48.9	ug/L	1.98	2.27	20	
4-Chlorotoluene		50.0	50.4	ug/L	1.83	0.788	20	
1,2-Dibromo-3-Chloropropane		50.0	45.8	ug/L	0.0804	8.32	20	
1,2-Dibromoethane		50.0	50.2	ug/L	0.226	0.494	20	
Dibromomethane		50.0	57.3	ug/L	0.159	14.6	20	
1,2-Dichlorobenzene		50.0	49.4	ug/L	1.32	1.26	20	
1,3-Dichlorobenzene		50.0	49.3	ug/L	1.45	1.45	20	
1,4-Dichlorobenzene		50.0	48.2	ug/L	1.43	3.52	20	
Dichlorodifluoromethane		50.0	63.0	ug/L	0.494	26.1	20	*
1,2-Dichloroethane		50.0	60.5	ug/L	0.490	20.9	20	*
cis-1,2-Dichloroethene		50.0	52.7	ug/L	0.295	5.48	20	
trans-1,2-Dichloroethene		50.0	52.8	ug/L	0.267	5.56	20	
1,3-Dichloropropane		50.0	50.3	ug/L	0.363	0.603	20	
2,2-Dichloropropane		50.0	60.8	ug/L	0.484	21.7	20	*
cis-1,3-Dichloropropene		50.0	56.5	ug/L	0.422	13.0	20	
trans-1,3-Dichloropropene		50.0	54.1	ug/L	0.440	8.23	20	

CCV - Modified 03/05/2008
PDF File ID: 4775587
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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L16050763 Run Date: 05/21/2016 Sample ID: WG569785-02
Instrument ID: HPMS11 Run Time: 12:00 Method: 8260B
File ID: 11M12016 Analyst: JDS QC Key: DOD4
Workgroup (AAB#): WG569786 Cal ID: HPMS11 - 13-MAY-16
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	54.8	ug/L	0.385	9.65	20	
2-Hexanone		50.0	46.6	ug/L	0.154	6.81	20	
Hexachlorobutadiene		50.0	38.9	ug/L	0.335	22.3	20	*
Isopropylbenzene		50.0	53.0	ug/L	1.58	5.98	20	
p-Isopropyltoluene		50.0	50.0	ug/L	2.44	0.0170	20	
4-Methyl-2-Pentanone		50.0	46.6	ug/L	0.0688	6.82	20	
Methylene Chloride		50.0	51.2	ug/L	0.242	2.32	20	
Naphthalene		50.0	46.4	ug/L	1.68	7.23	20	
n-Propylbenzene		50.0	50.3	ug/L	2.91	0.643	20	
Styrene		50.0	53.3	ug/L	0.990	6.50	20	
1,1,1,2-Tetrachloroethane		50.0	54.6	ug/L	0.410	9.21	20	
Tetrachloroethene		50.0	52.1	ug/L	0.307	4.13	20	
1,2,3-Trichlorobenzene		50.0	45.0	ug/L	0.807	10.1	20	
1,2,4-Trichlorobenzene		50.0	47.4	ug/L	0.927	5.28	20	
1,1,1-Trichloroethane		50.0	59.7	ug/L	0.587	19.4	20	
1,1,2-Trichloroethane		50.0	49.1	ug/L	0.220	1.84	20	
Trichloroethene		50.0	54.0	ug/L	0.337	8.10	20	
Trichlorofluoromethane		50.0	60.3	ug/L	0.627	20.7	20	*
1,2,3-Trichloropropane		50.0	47.5	ug/L	0.139	5.07	20	
1,2,4-Trimethylbenzene		50.0	51.0	ug/L	2.29	1.91	20	
1,3,5-Trimethylbenzene		50.0	50.0	ug/L	2.21	0.00600	20	
o-Xylene		50.0	51.1	ug/L	0.575	2.14	20	
m-,p-Xylene		100	101	ug/L	0.587	1.49	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 4775587
Report generated 05/26/2016 09:47

Login Number: L16050763 Run Date: 05/21/2016 Sample ID: WG569788-02
Instrument ID: HPMS17 Run Time: 14:41 Method: 8260B
File ID: 17M021296 Analyst: JDS QC Key: DOD4
Workgroup (AAB#): WG569789 Cal ID: HPMS17 - 20-MAY-16
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	46.0	ug/L	0.456	7.90	20	
1,1-Dichloroethene	CCC	50.0	44.1	ug/L	0.359	11.9	20	
1,2-Dichloropropane	CCC	50.0	46.0	ug/L	0.265	7.95	20	
Ethylbenzene	CCC	50.0	44.8	ug/L	0.493	10.3	20	
Toluene	CCC	50.0	46.1	ug/L	1.47	7.74	20	
Vinyl Chloride	CCC	50.0	44.4	ug/L	0.289	11.1	20	
Bromoform	SPCC	50.0	43.8	ug/L	0.215	12.3	20	
Chlorobenzene	SPCC	50.0	45.7	ug/L	0.955	8.62	20	
Chloromethane	SPCC	50.0	40.0	ug/L	0.261	19.9	20	
1,1-Dichloroethane	SPCC	50.0	45.8	ug/L	0.456	8.35	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	56.1	ug/L	0.431	12.2	20	
Xylenes		150	137	ug/L	0.587	8.70	20	
Acetone		50.0	47.3	ug/L	0.0374	5.35	20	
Benzene		50.0	45.7	ug/L	1.00	8.53	20	
Bromobenzene		50.0	46.3	ug/L	0.809	7.35	20	
Bromochloromethane		50.0	46.8	ug/L	0.169	6.49	20	
Bromodichloromethane		50.0	48.5	ug/L	0.340	2.97	20	
Bromomethane		50.0	35.1	ug/L	0.145	29.8	20	*
2-Butanone		50.0	47.1	ug/L	0.0589	5.82	20	
n-Butylbenzene		50.0	44.9	ug/L	2.21	10.2	20	
sec-Butylbenzene		50.0	43.7	ug/L	2.77	12.6	20	
tert-Butylbenzene		50.0	44.1	ug/L	0.424	11.7	20	
Carbon Disulfide		50.0	45.6	ug/L	0.704	8.85	20	
Carbon Tetrachloride		50.0	48.5	ug/L	0.363	3.10	20	
Dibromochloromethane		50.0	45.4	ug/L	0.341	9.23	20	
Chloroethane		50.0	43.2	ug/L	0.126	13.5	20	
2-Chlorotoluene		50.0	45.8	ug/L	1.92	8.41	20	
4-Chlorotoluene		50.0	46.3	ug/L	2.02	7.39	20	
1,2-Dibromo-3-Chloropropane		50.0	50.3	ug/L	0.0768	0.601	20	
1,2-Dibromoethane		50.0	46.8	ug/L	0.246	6.35	20	
Dibromomethane		50.0	45.9	ug/L	0.137	8.13	20	
1,2-Dichlorobenzene		50.0	44.6	ug/L	1.33	10.9	20	
1,3-Dichlorobenzene		50.0	45.7	ug/L	1.45	8.54	20	
1,4-Dichlorobenzene		50.0	43.4	ug/L	1.42	13.3	20	
Dichlorodifluoromethane		50.0	43.7	ug/L	0.318	12.6	20	
1,2-Dichloroethane		50.0	45.7	ug/L	0.283	8.62	20	
cis-1,2-Dichloroethene		50.0	46.7	ug/L	0.276	6.70	20	
trans-1,2-Dichloroethene		50.0	44.6	ug/L	0.237	10.7	20	
1,3-Dichloropropane		50.0	46.3	ug/L	0.392	7.37	20	
2,2-Dichloropropane		50.0	48.0	ug/L	0.379	3.91	20	
cis-1,3-Dichloropropene		50.0	50.0	ug/L	0.384	0.0302	20	
trans-1,3-Dichloropropene		50.0	50.4	ug/L	0.314	0.836	20	

CCV - Modified 03/05/2008
PDF File ID: 4775587
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L16050763 Run Date: 05/21/2016 Sample ID: WG569788-02

Instrument ID: HPMS17 Run Time: 14:41 Method: 8260B

File ID: 17M021296 Analyst: JDS QC Key: DOD4

Workgroup (AAB#): WG569789 Cal ID: HPMS17 - 20-MAY-16

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	45.4	ug/L	0.328	9.15	20	
2-Hexanone		50.0	46.4	ug/L	0.122	7.28	20	
Hexachlorobutadiene		50.0	44.3	ug/L	0.513	11.3	20	
Isopropylbenzene		50.0	44.1	ug/L	1.46	11.8	20	
p-Isopropyltoluene		50.0	45.1	ug/L	2.38	9.72	20	
4-Methyl-2-Pentanone		50.0	46.5	ug/L	0.0514	7.09	20	
Methylene Chloride		50.0	44.1	ug/L	0.240	11.9	20	
Naphthalene		50.0	50.5	ug/L	1.70	0.909	20	
n-Propylbenzene		50.0	45.8	ug/L	3.12	8.44	20	
Styrene		50.0	47.8	ug/L	0.973	4.39	20	
1,1,1,2-Tetrachloroethane		50.0	48.7	ug/L	0.356	2.51	20	
Tetrachloroethene		50.0	43.8	ug/L	0.405	12.3	20	
1,2,3-Trichlorobenzene		50.0	46.5	ug/L	0.899	6.92	20	
1,2,4-Trichlorobenzene		50.0	46.7	ug/L	1.03	6.67	20	
1,1,1-Trichloroethane		50.0	45.5	ug/L	0.402	8.98	20	
1,1,2-Trichloroethane		50.0	46.8	ug/L	0.246	6.31	20	
Trichloroethene		50.0	41.4	ug/L	0.307	17.1	20	
Trichlorofluoromethane		50.0	46.0	ug/L	0.396	8.08	20	
1,2,3-Trichloropropane		50.0	47.4	ug/L	0.135	5.25	20	
1,2,4-Trimethylbenzene		50.0	46.0	ug/L	2.35	8.02	20	
1,3,5-Trimethylbenzene		50.0	45.6	ug/L	2.33	8.88	20	
o-Xylene		50.0	45.1	ug/L	0.576	9.74	20	
m-,p-Xylene		100	91.8	ug/L	0.597	8.18	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 4775587
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number:L16050763
Instrument ID:HPMS17
Workgroup (AAB#):WG569773

ICAL CCV Number:WG569734-02
CAL ID: HPMS17-20-MAY-16
Matrix:WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG569734-02	NA	NA	157710	291699	386783
Upper Limit	NA	NA	315420	583398	773566
Lower Limit	NA	NA	78855	145850	193392
L16050763-01	1.00	01	163804	297288	390259
L16050763-02	1.00	01	156149	280098	369843
L16050763-03	1.00	01	156163	281539	371349
L16050763-04	1.00	01	163147	296998	393207
L16050763-05	1.00	01	164776	305321	407276
L16050763-06	1.00	01	165058	304640	403551
L16050763-07	1.00	01	162268	295109	389606
L16050763-09	1.00	01	163896	297718	392343
L16050763-10	1.00	01	165386	295249	388880
L16050763-12	1.00	01	164165	300988	397499
L16050763-13	1.00	01	167209	305751	404890
L16050763-14	1.00	01	172172	309575	405963
L16050763-15	1.00	01	156299	282082	371634
L16050763-16	1.00	01	158901	287082	378798
L16050763-17	1.00	01	161307	297947	392805
L16050763-18	1.00	01	164454	297451	391295
WG569773-01	1.00	01	160464	303563	402325
WG569773-02	1.00	01	151540	273038	357568

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 4775588
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L16050763
Instrument ID: HPMS11
Workgroup (AAB#): WG569786

ICAL CCV Number: WG568769-08
CAL ID: HPMS11-13-MAY-16
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG568769-08	NA	NA	263885	438582	521583
Upper Limit	NA	NA	527770	877164	1043166
Lower Limit	NA	NA	131943	219291	260792
L16050763-19	1.00	01	210320	354813	383298
L16050763-20	1.00	01	210536	359407	392589
WG569786-01	1.00	01	212645	358331	396619
WG569786-02	1.00	01	229064	369904	398729

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 4775588
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L16050763
Instrument ID: HPMS17
Workgroup (AAB#): WG569789

ICAL CCV Number: WG569734-02
CAL ID: HPMS17-20-MAY-16
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG569734-02	NA	NA	157710	291699	386783
Upper Limit	NA	NA	315420	583398	773566
Lower Limit	NA	NA	78855	145850	193392
L16050763-08	1.00	01	159310	294384	388148
L16050763-11	1.00	01	163795	298110	391933
WG569789-01	1.00	01	162257	293268	388402
WG569789-02	1.00	01	146844	265267	346468

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 4775588
Report generated 05/26/2016 09:47

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L16050763
Instrument ID: HPMS11
Workgroup (AAB#): WG569786

ICAL CCV Number: WG568769-08
CAL ID: HPMS11-13-MAY-16
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG568769-08	NA	NA	17.06	14.25	10.61
Upper Limit	NA	NA	17.56	14.75	11.11
Lower Limit	NA	NA	16.56	13.75	10.11
L16050763-19	1.00	01	17.06	14.25	10.61
L16050763-20	1.00	01	17.06	14.25	10.61
WG569786-01	1.00	01	17.06	14.25	10.61
WG569786-02	1.00	01	17.06	14.25	10.61

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 4775590
Report generated: 05/26/2016 09:47

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number:L16050763
Instrument ID:HPMS17
Workgroup (AAB#):WG569773

ICAL CCV Number:WG569734-02
CAL ID: HPMS17-20-MAY-16
Matrix:WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG569734-02	NA	NA	9.218	7.869	4.982
Upper Limit	NA	NA	9.718	8.369	5.482
Lower Limit	NA	NA	8.718	7.369	4.482
L16050763-01	1.00	01	9.22	7.87	4.98
L16050763-02	1.00	01	9.22	7.87	4.98
L16050763-03	1.00	01	9.22	7.87	4.98
L16050763-04	1.00	01	9.22	7.87	4.98
L16050763-05	1.00	01	9.22	7.87	4.98
L16050763-06	1.00	01	9.22	7.87	4.98
L16050763-07	1.00	01	9.22	7.87	4.98
L16050763-09	1.00	01	9.22	7.87	4.98
L16050763-10	1.00	01	9.22	7.87	4.98
L16050763-12	1.00	01	9.22	7.87	4.98
L16050763-13	1.00	01	9.22	7.87	4.98
L16050763-14	1.00	01	9.22	7.87	4.98
L16050763-15	1.00	01	9.22	7.87	4.98
L16050763-16	1.00	01	9.22	7.87	4.98
L16050763-17	1.00	01	9.22	7.87	4.98
L16050763-18	1.00	01	9.22	7.87	4.98
WG569773-01	1.00	01	9.22	7.87	4.98
WG569773-02	1.00	01	9.22	7.87	4.98

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 4775590
Report generated: 05/26/2016 09:47

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L16050763
Instrument ID: HPMS17
Workgroup (AAB#): WG569789

ICAL CCV Number: WG569734-02
CAL ID: HPMS17-20-MAY-16
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG569734-02	NA	NA	9.218	7.869	4.982
Upper Limit	NA	NA	9.718	8.369	5.482
Lower Limit	NA	NA	8.718	7.369	4.482
L16050763-08	1.00	01	9.22	7.87	4.98
L16050763-11	1.00	01	9.22	7.87	4.98
WG569789-01	1.00	01	9.22	7.87	4.98
WG569789-02	1.00	01	9.22	7.87	4.98

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 4775590
Report generated: 05/26/2016 09:47

2.1.1.3 Sample Data

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021277.D Vial: 23
Acq On : 20 May 2016 23:05 Operator: ADC
Sample : L16050763-01 A RS 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:16 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

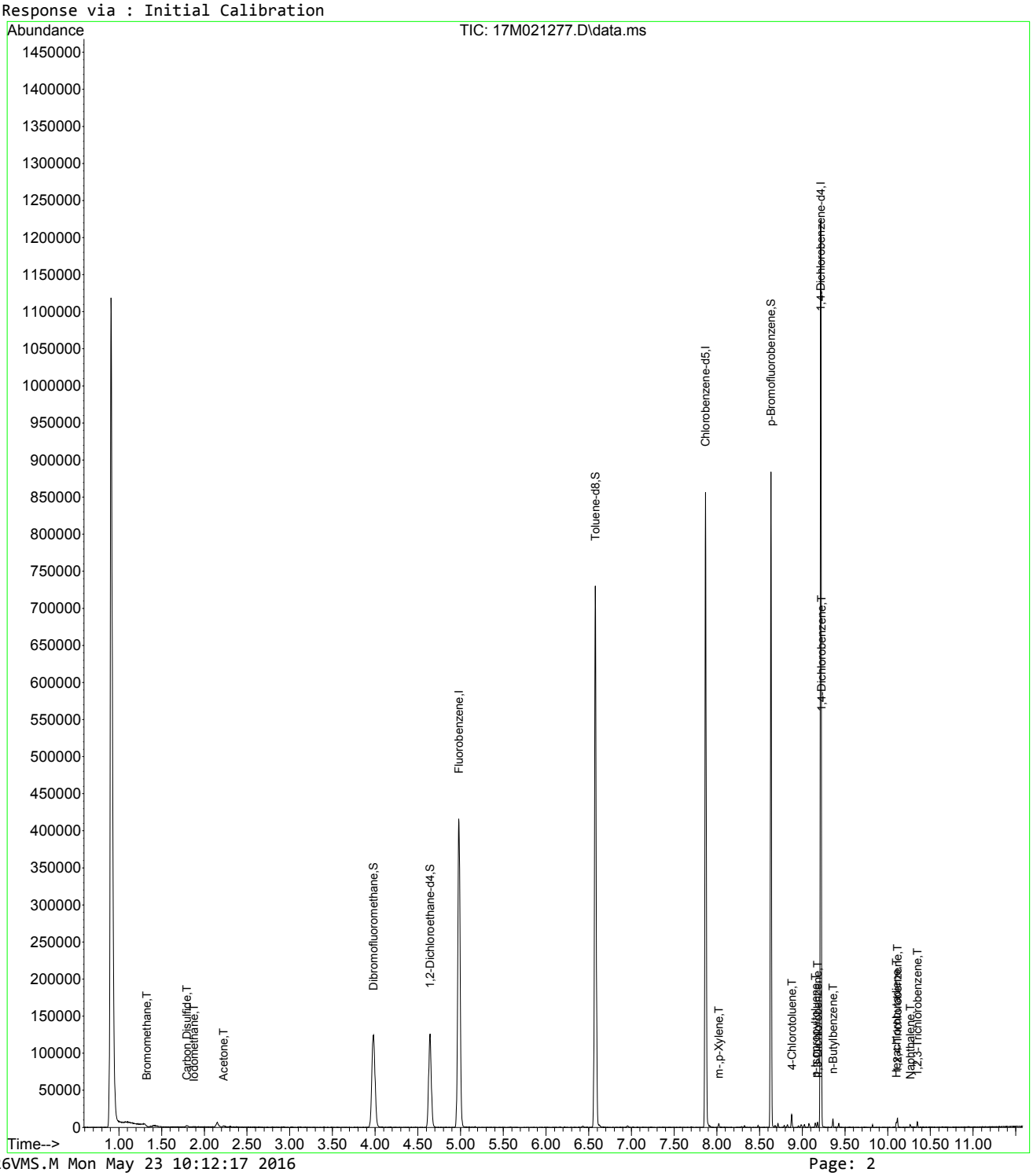
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.979	96	390259	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	297288	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	163804	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.977	111	102168	24.7181 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.872%		
34) 1,2-Dichloroethane-d4	4.643	65	100503	26.2969 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 105.188%		
47) Toluene-d8	6.577	98	403503	25.4154 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.662%		
66) p-Bromofluorobenzene	8.633	95	147061	25.9662 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.865%		
Target Compounds					Qvalue
6) Bromomethane	1.325	94	451	0.1402 ug/L	88
11) Carbon Disulfide	1.797	76	2023	0.1678 ug/L #	73
13) Iodomethane	1.875	142	399	1.1506 ug/L #	34
16) Acetone	2.226	43	1319	2.1369 ug/L	87
59) m-,p-Xylene	8.022	106	1001	0.1294 ug/L	95
74) 4-Chlorotoluene	8.879	91	1803	0.1264 ug/L	94
77) p-Isopropyltoluene	9.154	119	2152	0.1244 ug/L	99
78) 1,3-Dichlorobenzene	9.180	146	1731	0.1665 ug/L	93
79) 1,4-Dichlorobenzene	9.224	146	2078	0.1937 ug/L #	84
80) n-Butylbenzene	9.360	91	3522	0.2185 ug/L	92
83) Hexachlorobutadiene	10.104	225	846	0.2234 ug/L	95
84) 1,2,4-Trichlorobenzene	10.115	180	2247	0.3113 ug/L	94
85) Naphthalene	10.266	128	1741	0.1580 ug/L	90
86) 1,2,3-Trichlorobenzene	10.347	180	1402	0.2215 ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

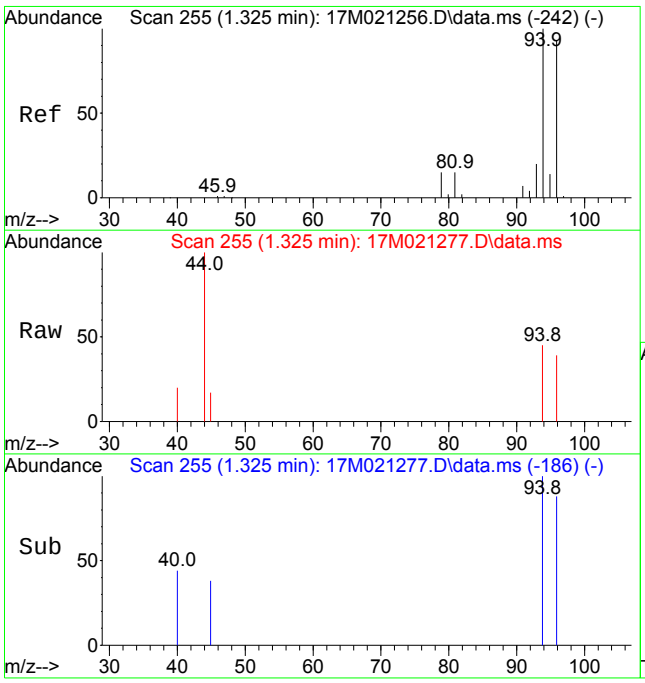
826VMS.M Mon May 23 10:12:17 2016 Page: 1

Data File : D:\MassHunter\GCMS\1\data\052016\17M021277.D Vial: 23
Acq On : 20 May 2016 23:05 Operator: ADC
Sample : L16050763-01 A RS 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:16 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



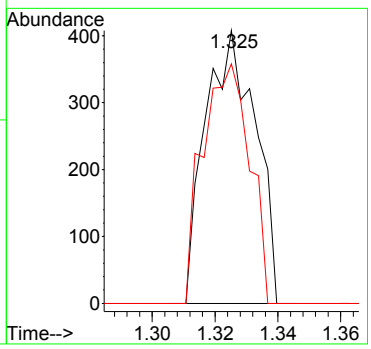
826VMS.M Mon May 23 10:12:17 2016 Page: 2

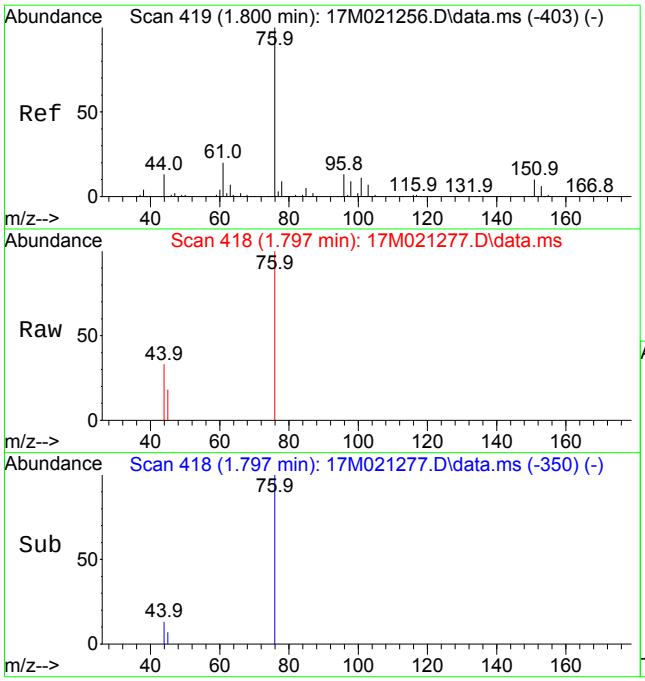


#6
Bromomethane
Concen: 0.1402 ug/L
RT: 1.325 min Scan# 255
Delta R.T. 0.000 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion: 94 Resp: 451

Ion	Ratio	Lower	Upper
94	100		
96	82.3	56.6	132.0

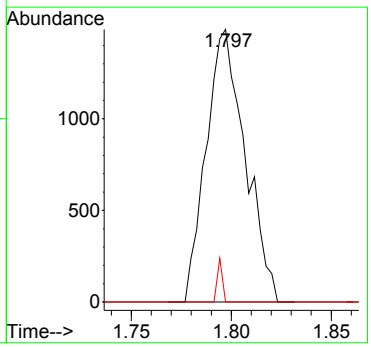


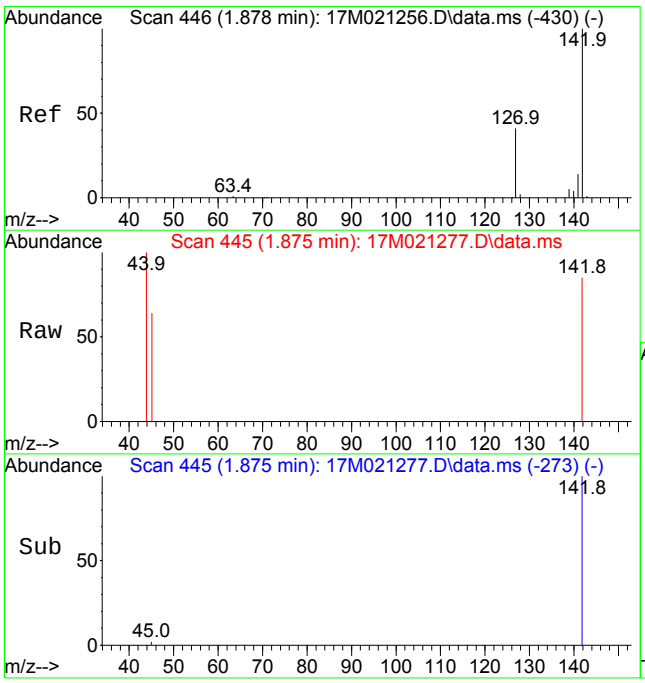


#11
Carbon Disulfide
Concen: 0.1678 ug/L
RT: 1.797 min Scan# 418
Delta R.T. -0.003 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion: 76 Resp: 2023

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.9	11.9#

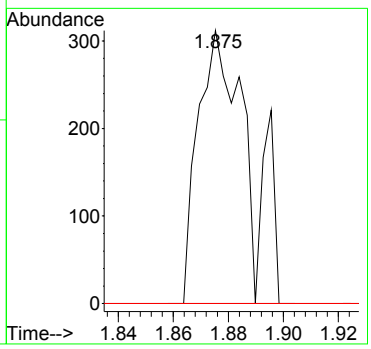


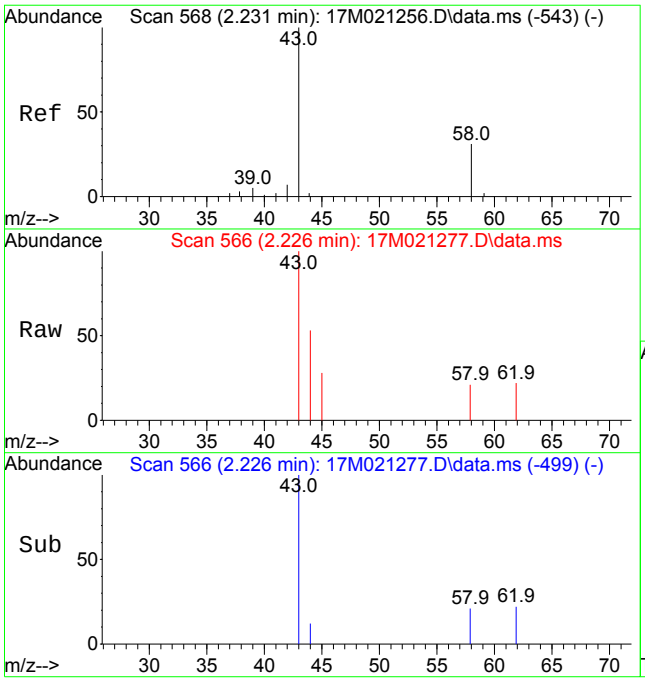


#13
Iodomethane
Concen: 1.1506 ug/L
RT: 1.875 min Scan# 445
Delta R.T. -0.003 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion:142 Resp: 399

Ion	Ratio	Lower	Upper
142	100		
127	0.0	33.3	49.9#

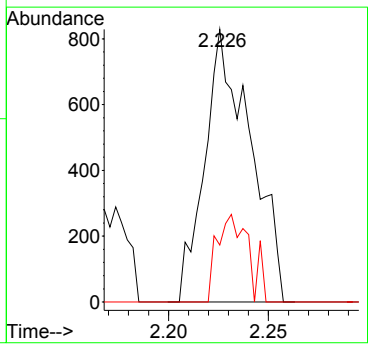


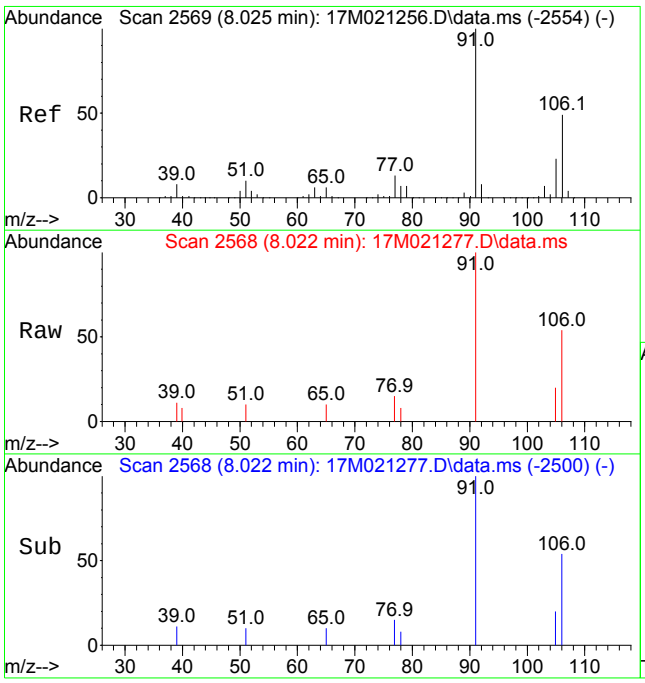


#16
Acetone
Concen: 2.1369 ug/L
RT: 2.226 min Scan# 566
Delta R.T. -0.005 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion: 43 Resp: 1319

Ion	Ratio	Lower	Upper
43	100		
58	22.2	17.6	41.2

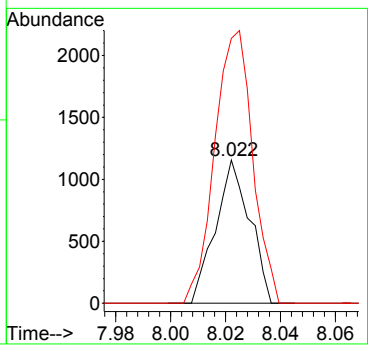


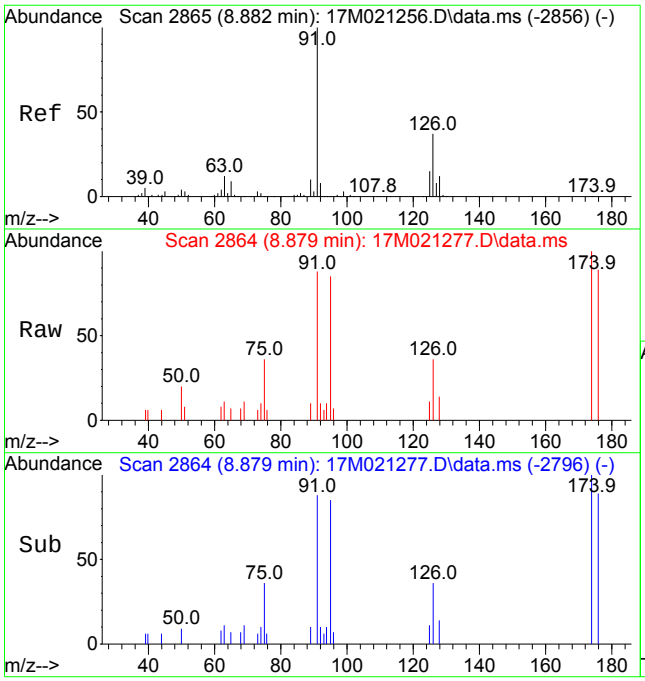


#59
m-,p-Xylene
Concen: 0.1294 ug/L
RT: 8.022 min Scan# 2568
Delta R.T. -0.003 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion:106 Resp: 1001

Ion	Ratio	Lower	Upper
106	100		
91	210.6	121.7	283.9

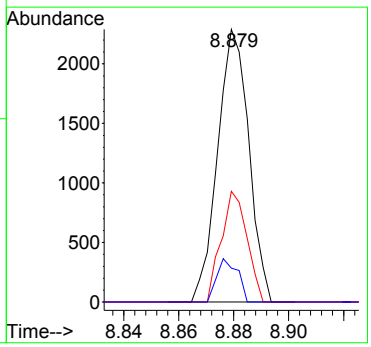


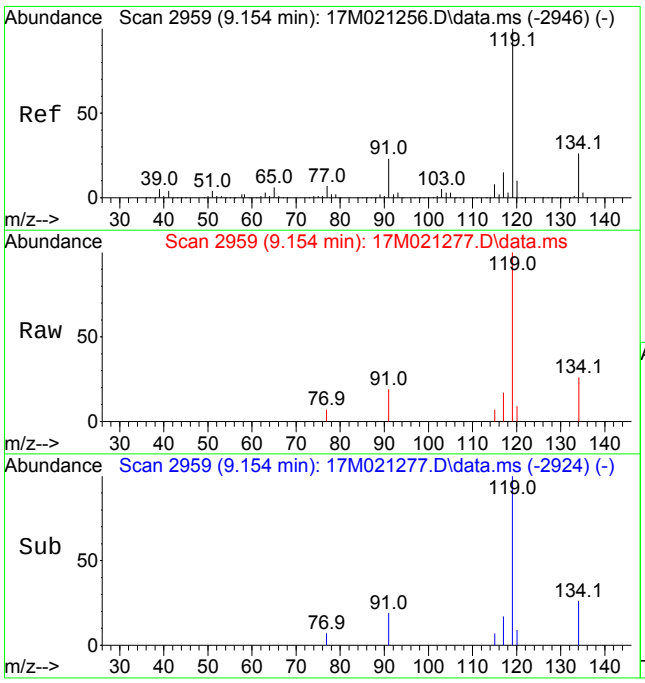


#74
4-Chlorotoluene
Concen: 0.1264 ug/L
RT: 8.879 min Scan# 2864
Delta R.T. -0.003 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion: 91 Resp: 1803

Ion	Ratio	Lower	Upper
91	100		
126	33.4	22.3	51.9
63	10.6	7.2	16.8

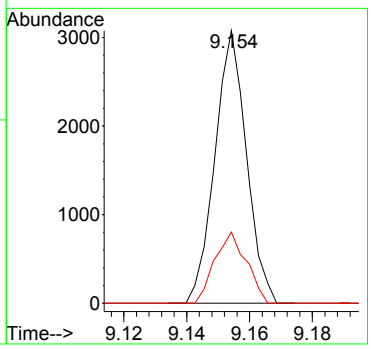


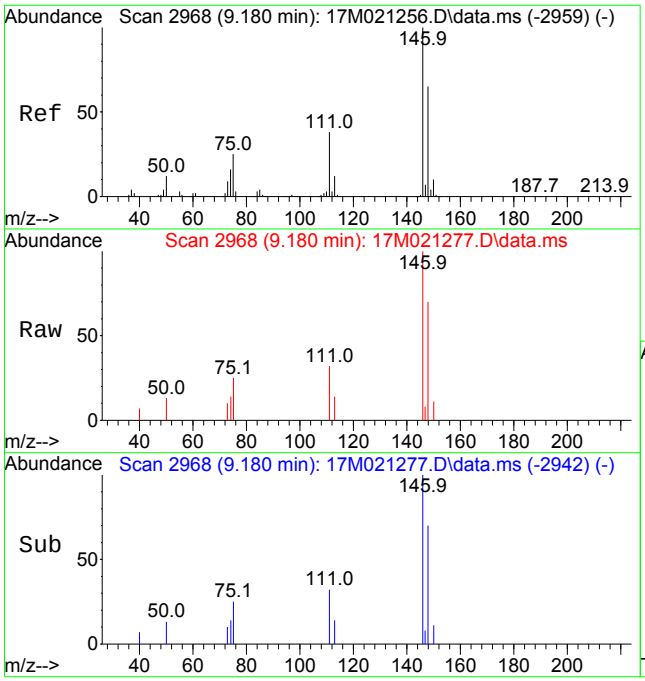


#77
p-Isopropyltoluene
Concen: 0.1244 ug/L
RT: 9.154 min Scan# 2959
Delta R.T. 0.000 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion:119 Resp: 2152

Ion	Ratio	Lower	Upper
119	100		
134	26.2	16.0	37.4

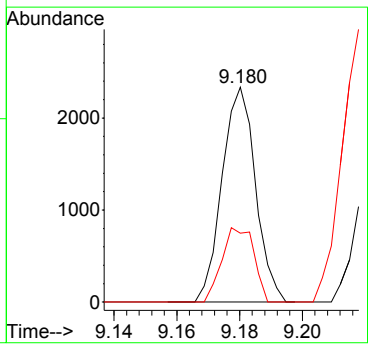


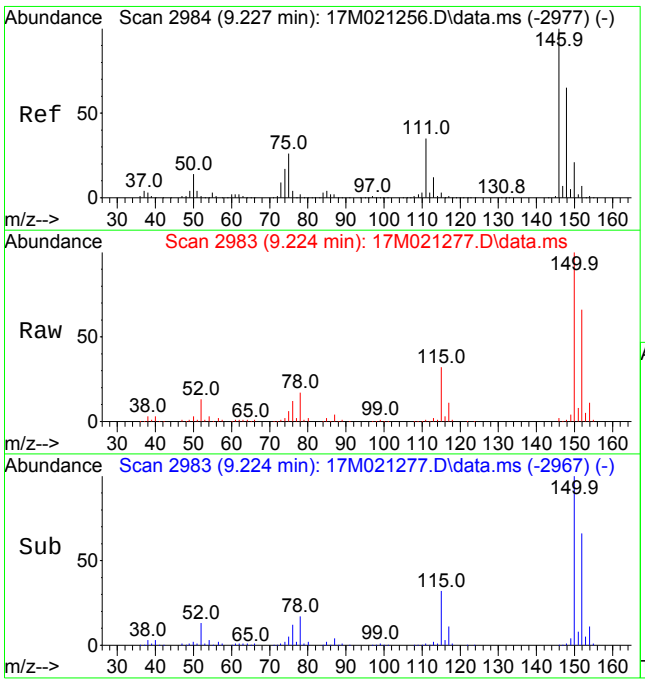


#78
1,3-Dichlorobenzene
Concen: 0.1665 ug/L
RT: 9.180 min Scan# 2968
Delta R.T. 0.000 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion:146 Resp: 1731

Ion	Ratio	Lower	Upper
146	100		
111	32.9	22.4	52.2

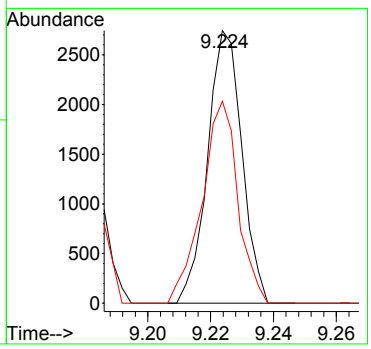


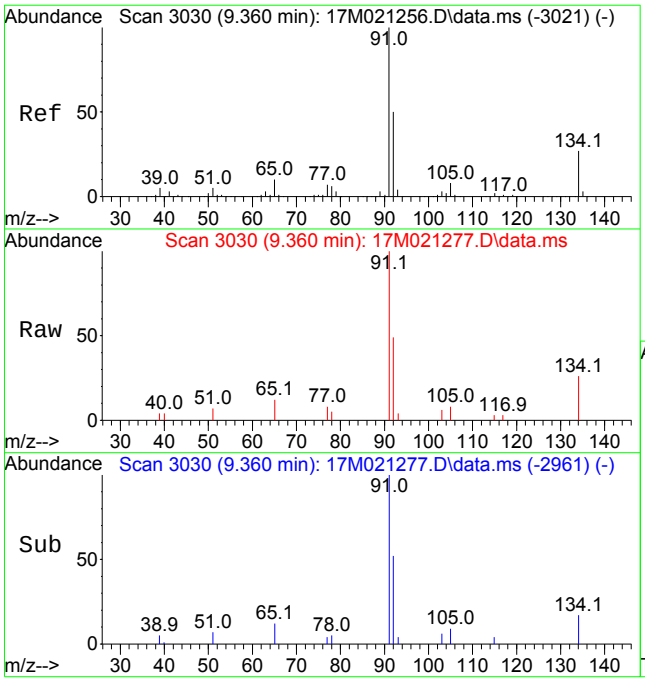


#79
1,4-Dichlorobenzene
Concen: 0.1937 ug/L
RT: 9.224 min Scan# 2983
Delta R.T. -0.003 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion:146 Resp: 2078

Ion	Ratio	Lower	Upper
146	100		
148	77.4	51.6	77.4#

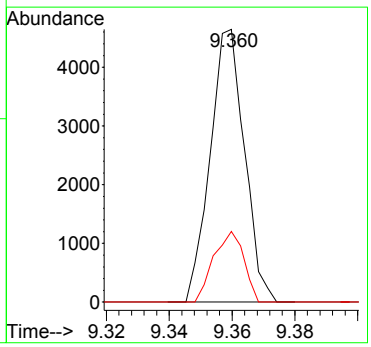


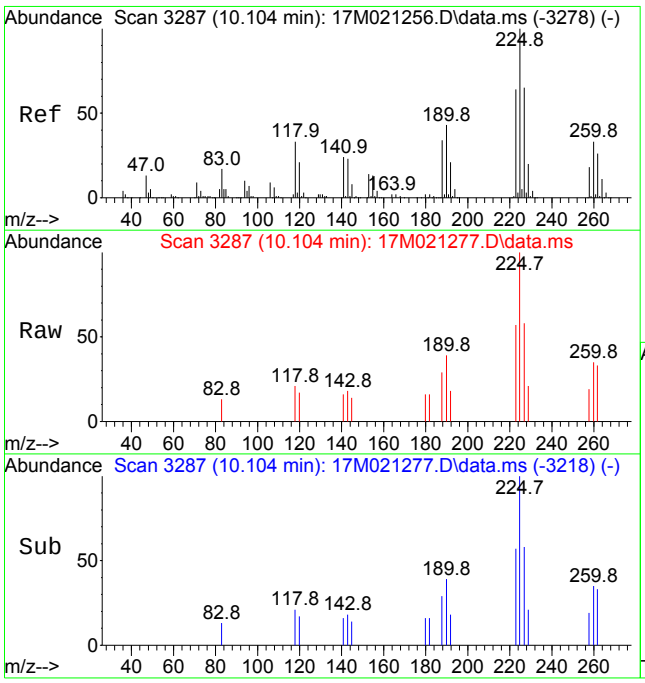


#80
n-Butylbenzene
Concen: 0.2185 ug/L
RT: 9.360 min Scan# 3030
Delta R.T. -0.000 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion: 91 Resp: 3522

Ion	Ratio	Lower	Upper
91	100		
134	22.7	16.1	37.5

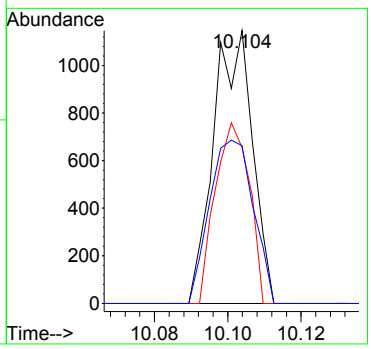


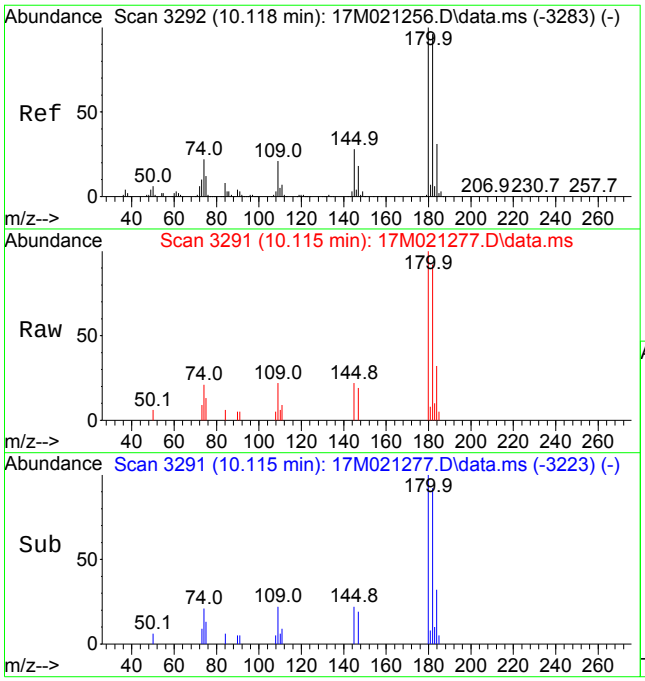


#83
Hexachlorobutadiene
Concen: 0.2234 ug/L
RT: 10.104 min Scan# 3287
Delta R.T. -0.000 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion:225 Resp: 846

Ion	Ratio	Lower	Upper
225	100		
223	58.0	50.1	75.1
227	67.4	51.8	77.8

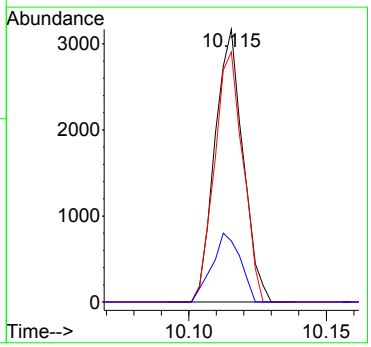


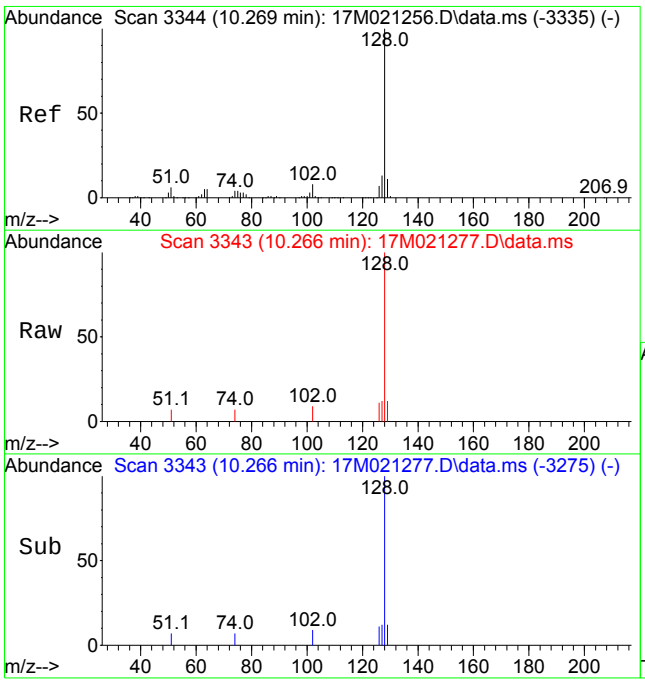


#84
1,2,4-Trichlorobenzene
Concen: 0.3113 ug/L
RT: 10.115 min Scan# 3291
Delta R.T. -0.003 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion:180 Resp: 2247

Ion	Ratio	Lower	Upper
180	100		
182	92.5	57.5	134.1
145	25.4	19.4	45.2

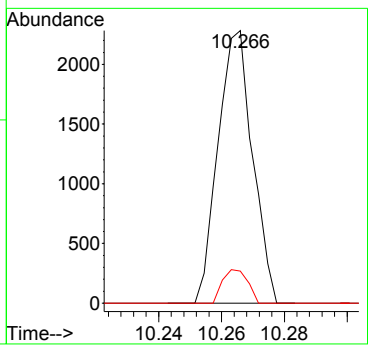


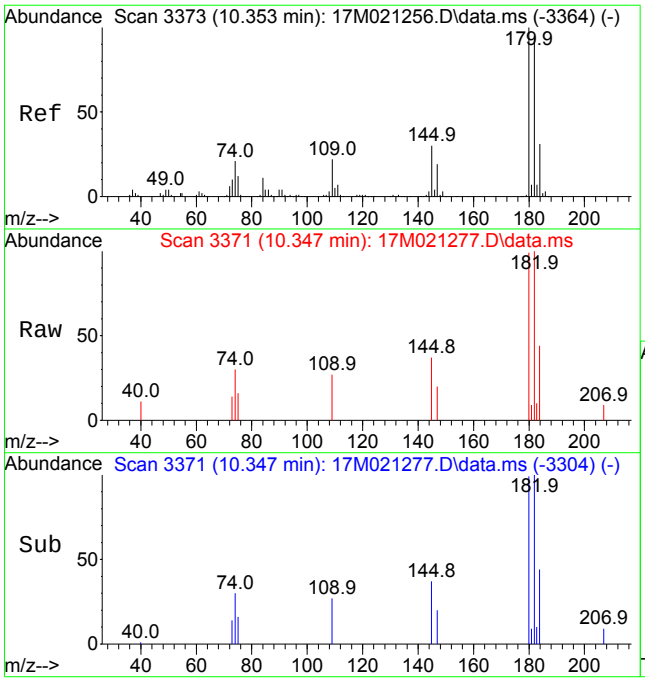


#85
Naphthalene
Concen: 0.1580 ug/L
RT: 10.266 min Scan# 3343
Delta R.T. -0.003 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion:128 Resp: 1741

Ion	Ratio	Lower	Upper
128	100		
127	9.0	7.8	18.2

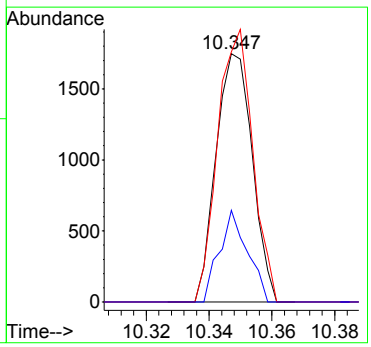




#86
1,2,3-Trichlorobenzene
Concen: 0.2215 ug/L
RT: 10.347 min Scan# 3371
Delta R.T. -0.006 min
Lab File: 17M021277.D
Acq: 20 May 2016 23:05

Tgt Ion:180 Resp: 1402

Ion	Ratio	Lower	Upper
180	100		
182	105.8	57.4	134.0
145	28.6	17.8	41.4



Data File : D:\MassHunter\GCMS\1\data\052016\17M021272.D Vial: 18
Acq On : 20 May 2016 21:27 Operator: ADC
Sample : L16050763-02 A MS 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:31 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	369843	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.868	117	280098	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	156149	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.983	111	102497	26.1666	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.666%			
34) 1,2-Dichloroethane-d4	4.643	65	96083	26.5282	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 106.113%			
47) Toluene-d8	6.577	98	386349	25.8283	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.313%			
66) p-Bromofluorobenzene	8.633	95	140944	26.1062	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.425%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.998	85	66303	12.3243	ug/L	100
3) Chloromethane	1.105	50	87026	18.0828	ug/L	100
4) Vinyl Chloride	1.148	62	80981	16.8125	ug/L	100
5) 1,3-Butadiene	1.154	54	5155	1.3276	ug/L	99
6) Bromomethane	1.322	94	51005	16.7307	ug/L	99
7) Chloroethane	1.392	64	33111	15.3315	ug/L	96
8) Trichlorofluoromethane	1.467	101	99684	15.6440	ug/L	98
9) Diethyl ether	1.670	59	1567	0.6342	ug/L	89
10) 1,1-Dichloroethene	1.782	61	93706	15.5443	ug/L	100
11) Carbon Disulfide	1.797	76	218734	19.1438	ug/L	99
12) 1,1,2-Trichloro-1,2,2-...	1.811	101	58221	15.7054	ug/L	99
13) Iodomethane	1.875	142	77785	14.6217	ug/L	100
14) Acrolein	2.020	56	112	0.2558	ug/L #	13
15) Methylene Chloride	2.185	84	72059	17.8636	ug/L	100
16) Acetone	2.231	43	15174	25.9402	ug/L	99
17) trans-1,2-Dichloroethene	2.306	96	69271	17.6225	ug/L	99
18) Methyl acetate	2.333	43	35669	18.8702	ug/L #	89
19) Methyl Tert Butyl Ether	2.408	73	184045	21.6350	ug/L #	7
20) 1,1-Dichloroethane	2.833	63	126683	17.1994	ug/L	100
21) Acrylonitrile	2.891	53	18005	22.4021	ug/L	100
23) cis-1,2-Dichloroethene	3.395	96	83032	18.9440	ug/L	99
24) 2,2-Dichloropropane	3.514	77	97247	16.6643	ug/L	99
25) Cyclohexane	3.609	56	110768	17.7452	ug/L #	72
26) Bromochloromethane	3.624	130	49859	18.7004	ug/L	100
27) Chloroform	3.748	83	133166	18.2006	ug/L	100
28) Carbon Tetrachloride	3.882	117	96373	17.4047	ug/L	100
30) 1,1,1-Trichloroethane	3.980	97	113560	17.3831	ug/L	100
31) 1,1-Dichloropropene	4.157	75	90280	16.9039	ug/L	100
32) 2-Butanone	4.180	43	21626	23.3594	ug/L	90
33) Benzene	4.472	78	294578	18.1919	ug/L	100
35) 1,2-Dichloroethane	4.724	62	89687	19.5595	ug/L	100
36) Methylcyclohexane	5.138	83	112660	17.4808	ug/L	100
37) Trichloroethene	5.170	130	91609	16.7343	ug/L	100
38) Dibromomethane	5.596	93	41519	18.8343	ug/L	100
39) 1,2-Dichloropropane	5.706	63	82538	19.3467	ug/L	99
40) Bromodichloromethane	5.795	83	99895	19.2878	ug/L	100
42) 2-Chloroethyl Vinyl Ether	6.409	63	1259	1.4210	ug/L	88
43) cis-1,3-Dichloropropene	6.409	75	120958	21.2991	ug/L	100
44) 4-Methyl-2-Pentanone	7.003	58	18977	23.1911	ug/L	97
45) trans-1,3-Dichloropropene	7.017	75	92895	20.1572	ug/L	100
48) Toluene	6.623	91	329377	18.4935	ug/L	100
49) Tetrachloroethene	6.956	166	88609	17.1077	ug/L	99
50) 1,1,2-Trichloroethane	7.148	97	59816	20.2993	ug/L	99
51) Dibromochloromethane	7.289	129	78452	19.2730	ug/L	100
52) 1,3-Dichloropropane	7.373	76	100223	21.1482	ug/L	99
53) 1,2-Dibromoethane	7.463	107	60315	20.4595	ug/L	100

Data File : D:\MassHunter\GCMS\1\data\052016\17M021272.D Vial: 18
Acq On : 20 May 2016 21:27 Operator: ADC
Sample : L16050763-02 A MS 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:31 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

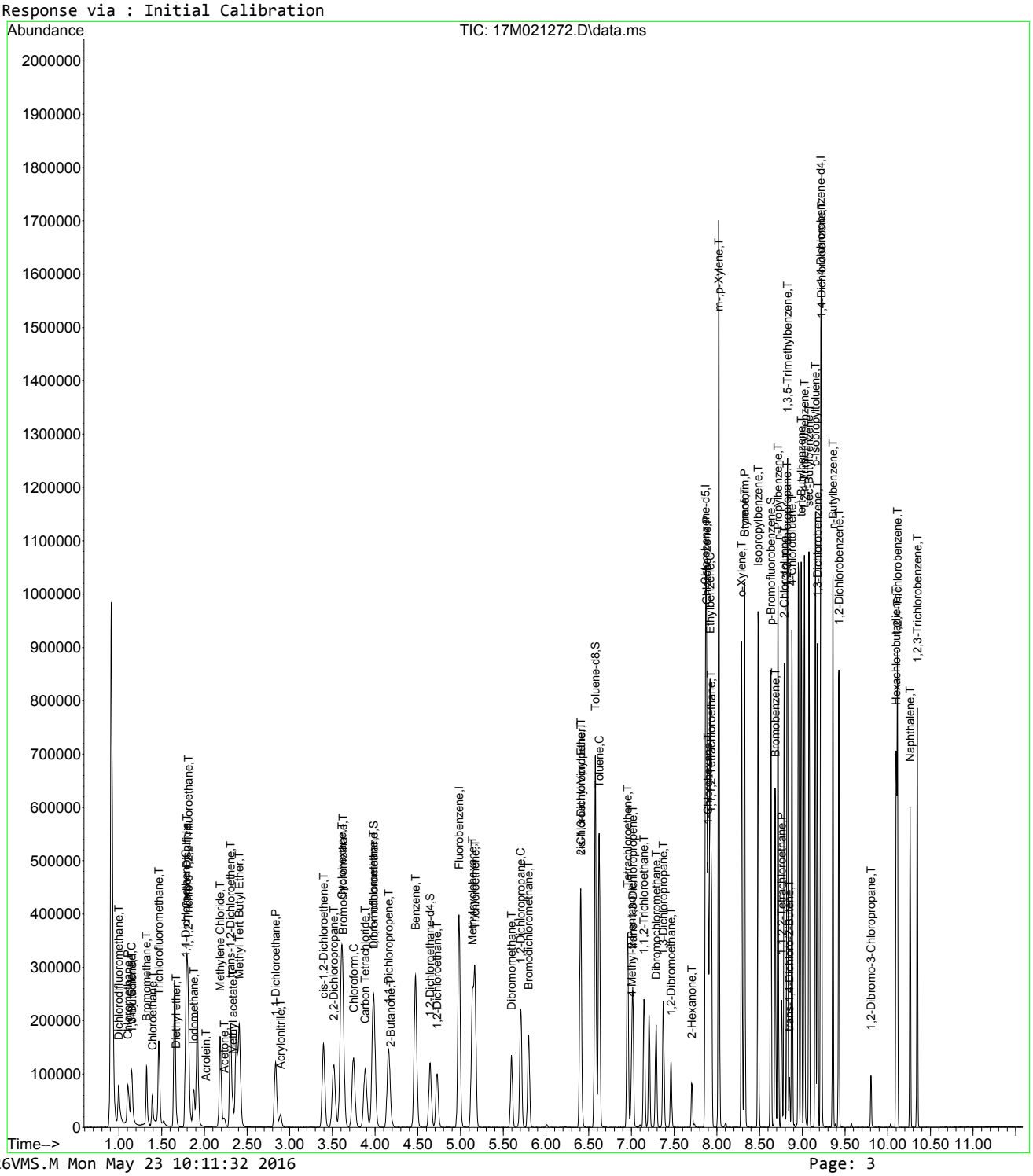
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 2-Hexanone	7.706	43	34574	23.5004	ug/L		98
55) Chlorobenzene	7.880	112	222857	19.0425	ug/L		100
56) 1-Chlorohexane	7.897	69	18036	18.6150	ug/L		90
57) Ethylbenzene	7.921	106	113713	18.4740	ug/L		99
58) 1,1,1,2-Tetrachloroethane	7.935	131	81795	20.0219	ug/L		100
59) m-,p-Xylene	8.022	106	278108	38.1582	ug/L		100
60) o-Xylene	8.291	106	139168	19.4562	ug/L		98
61) Styrene	8.326	104	225517	19.7689	ug/L		99
62) Bromoform	8.326	173	50306	19.3068	ug/L		100
63) Isopropylbenzene	8.482	105	353244	19.0633	ug/L		99
65) 1,3,5-Trimethylbenzene	8.827	105	305200	19.1472	ug/L		100
67) Bromobenzene	8.685	156	100939	18.5193	ug/L		100
68) n-Propylbenzene	8.717	91	409244	19.2529	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.760	83	60063	26.5718	ug/L		99
70) 2-Chlorotoluene	8.789	91	247873	18.9047	ug/L		100
71) 1,2,3-Trichloropropane	8.821	110	19018	21.4035	ug/L		97
72) trans-1,4-Dichloro-2-B...	8.850	53	8493	19.5994	ug/L	#	96
73) 1,2,4-Trimethylbenzene	9.024	105	303814	19.0467	ug/L		99
74) 4-Chlorotoluene	8.879	91	262890	19.3401	ug/L		100
75) tert-Butylbenzene	8.989	134	57329	19.1116	ug/L		100
76) sec-Butylbenzene	9.079	105	374381	18.8935	ug/L		100
77) p-Isopropyltoluene	9.154	119	312407	18.9484	ug/L		100
78) 1,3-Dichlorobenzene	9.180	146	189521	19.1230	ug/L		99
79) 1,4-Dichlorobenzene	9.223	146	190760	18.6526	ug/L		100
80) n-Butylbenzene	9.360	91	285895	18.6043	ug/L		100
81) 1,2-Dichlorobenzene	9.429	146	180607	19.4403	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.805	75	11327	23.7539	ug/L		99
83) Hexachlorobutadiene	10.101	225	68865	19.0750	ug/L		100
84) 1,2,4-Trichlorobenzene	10.115	180	138672	20.1528	ug/L		99
85) Naphthalene	10.263	128	216219	20.5903	ug/L		100
86) 1,2,3-Trichlorobenzene	10.347	180	124871	20.6953	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

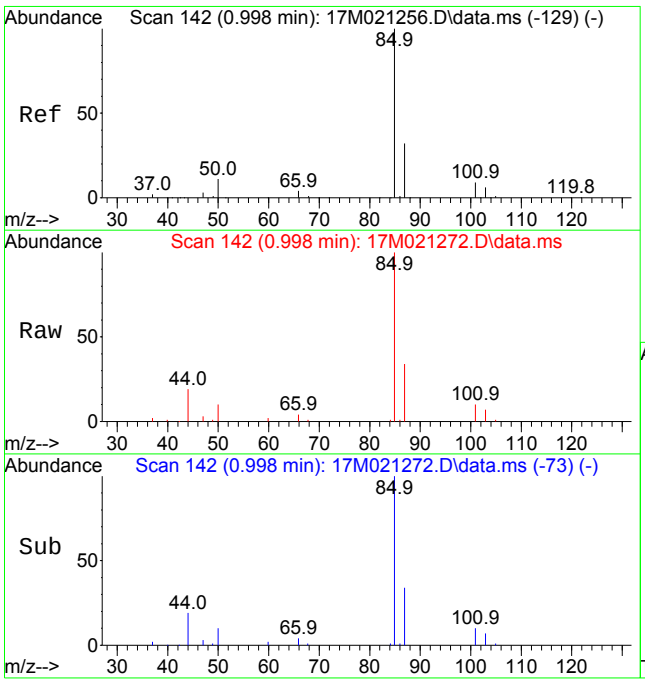
Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021272.D Vial: 18
Acq On : 20 May 2016 21:27 Operator: ADC
Sample : L16050763-02 A MS 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:31 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



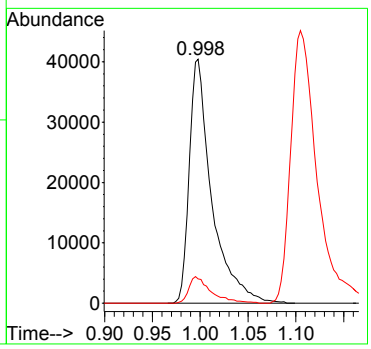
826VMS.M Mon May 23 10:11:32 2016 Page: 3

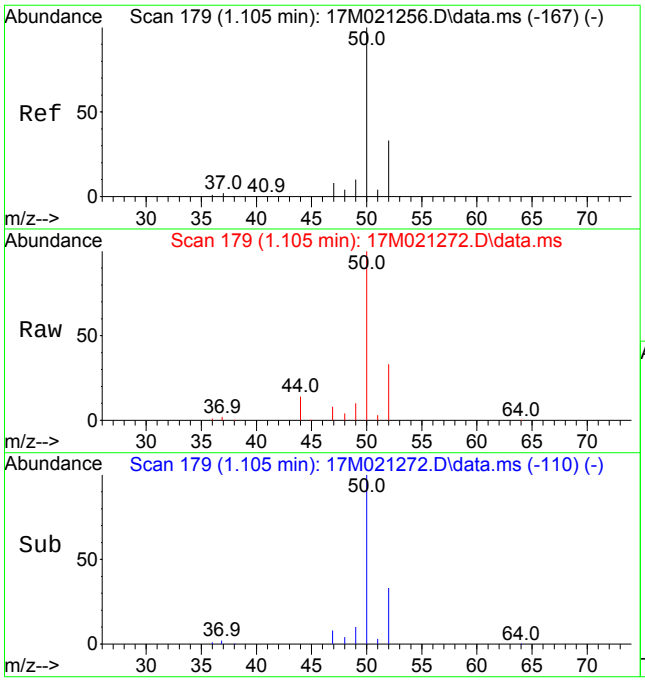


#2
Dichlorodifluoromethane
Concen: 12.3243 ug/L
RT: 0.998 min Scan# 142
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 85 Resp: 66303

Ion	Ratio	Lower	Upper
85	100		
50	10.8	6.5	15.3

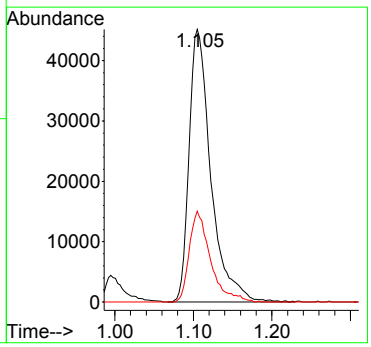


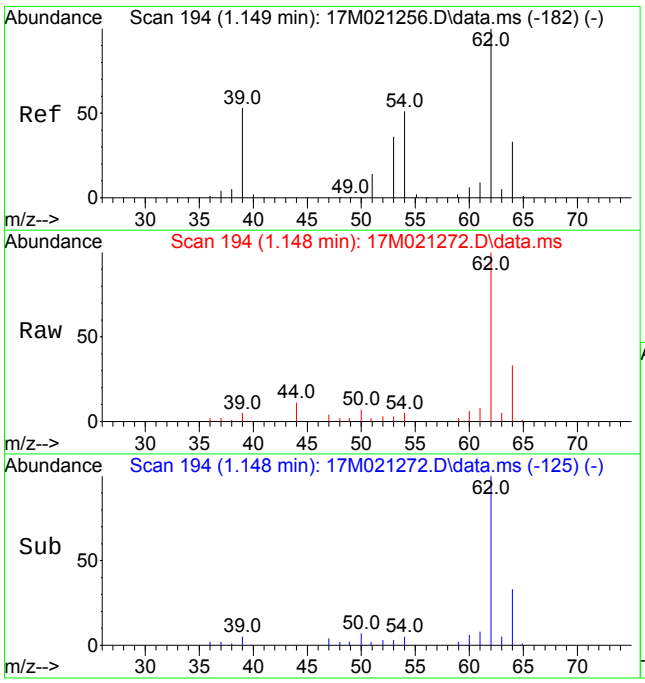


#3
Chloromethane
Concen: 18.0828 ug/L
RT: 1.105 min Scan# 179
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 50 Resp: 87026

Ion	Ratio	Lower	Upper
50	100		
52	32.3	19.4	45.4

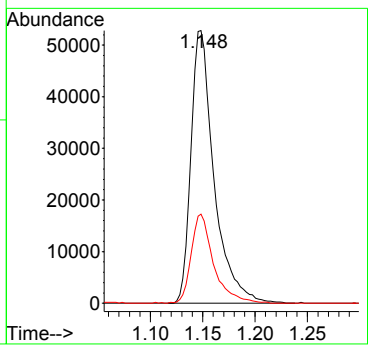


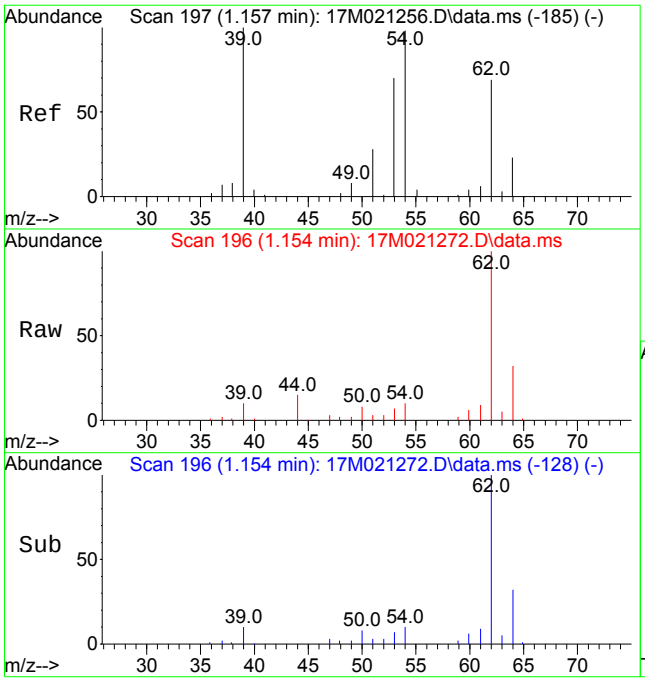


#4
Vinyl Chloride
Concen: 16.8125 ug/L
RT: 1.148 min Scan# 194
Delta R.T. -0.001 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 62 Resp: 80981

Ion	Ratio	Lower	Upper
62	100		
64	31.8	19.2	44.8

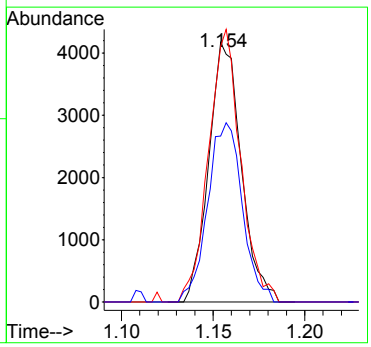


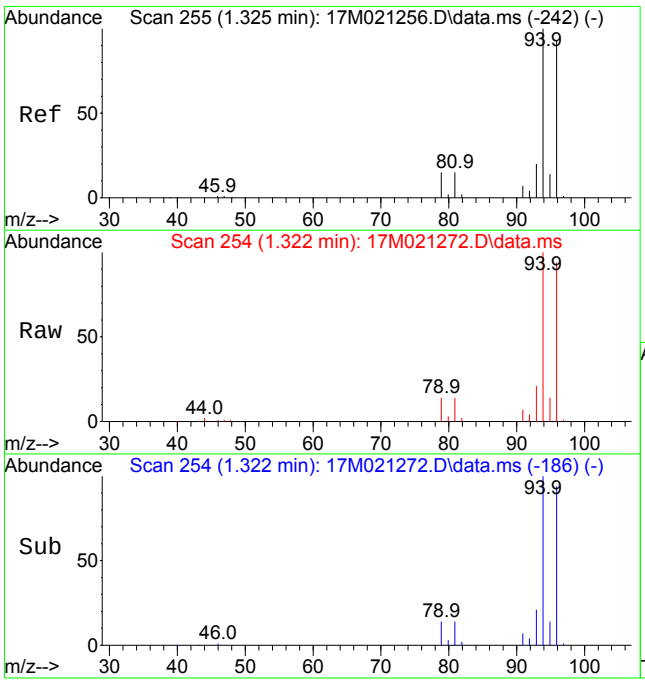


#5
1,3-Butadiene
Concen: 1.3276 ug/L
RT: 1.154 min Scan# 196
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 54 Resp: 5155

Ion	Ratio	Lower	Upper
54	100		
39	103.4	61.6	143.8
53	73.4	42.7	99.7

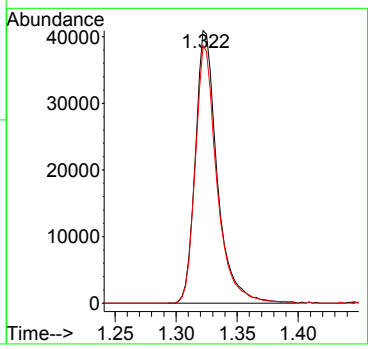


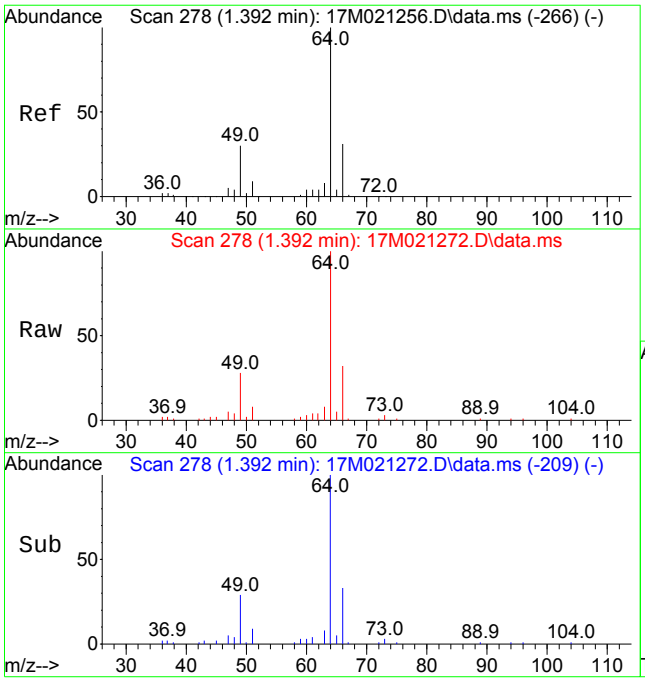


#6
Bromomethane
Concen: 16.7307 ug/L
RT: 1.322 min Scan# 254
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 94 Resp: 51005

Ion	Ratio	Lower	Upper
94	100		
96	93.4	56.6	132.0

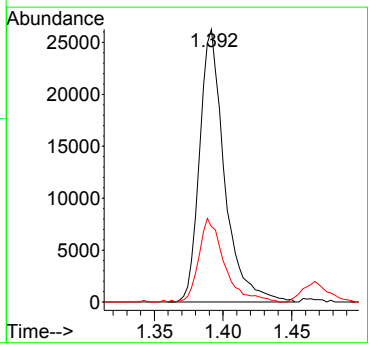


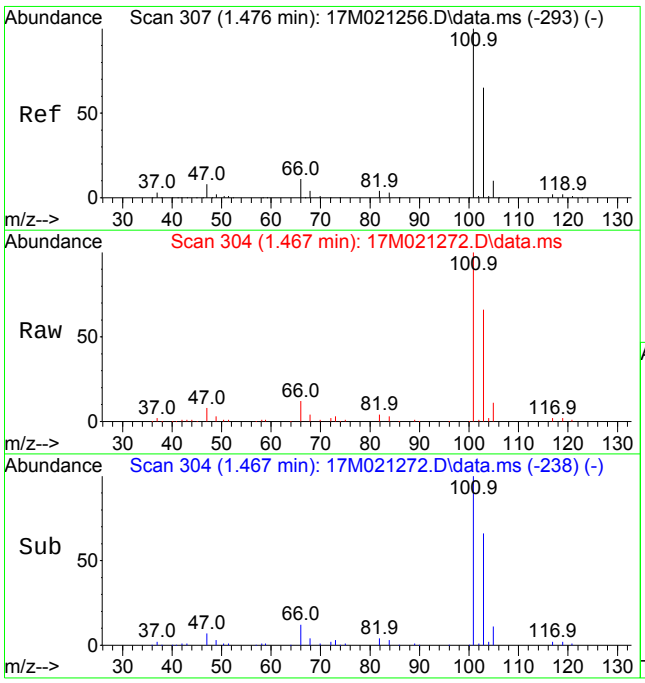


#7
Chloroethane
Concen: 15.3315 ug/L
RT: 1.392 min Scan# 278
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 64 Resp: 33111

Ion	Ratio	Lower	Upper
64	100		
49	31.5	17.6	41.0

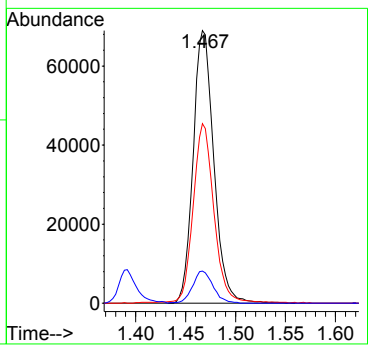


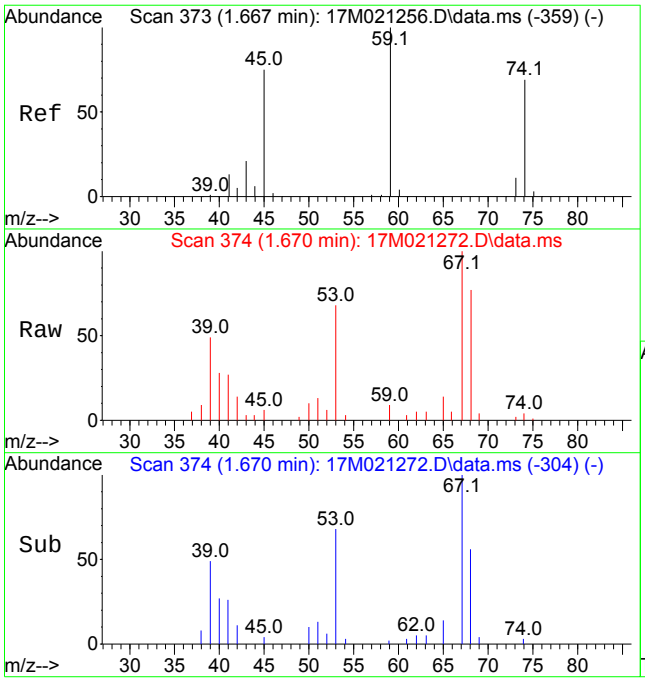


#8
Trichlorofluoromethane
Concen: 15.6440 ug/L
RT: 1.467 min Scan# 304
Delta R.T. -0.009 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:101 Resp: 99684

Ion	Ratio	Lower	Upper
101	100		
103	66.8	39.0	91.0
66	11.7	7.0	16.2

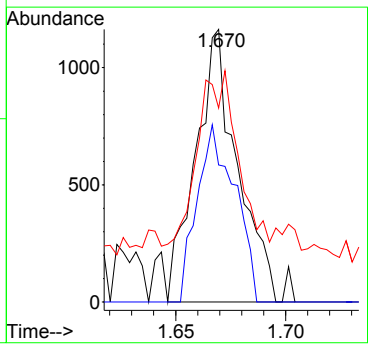


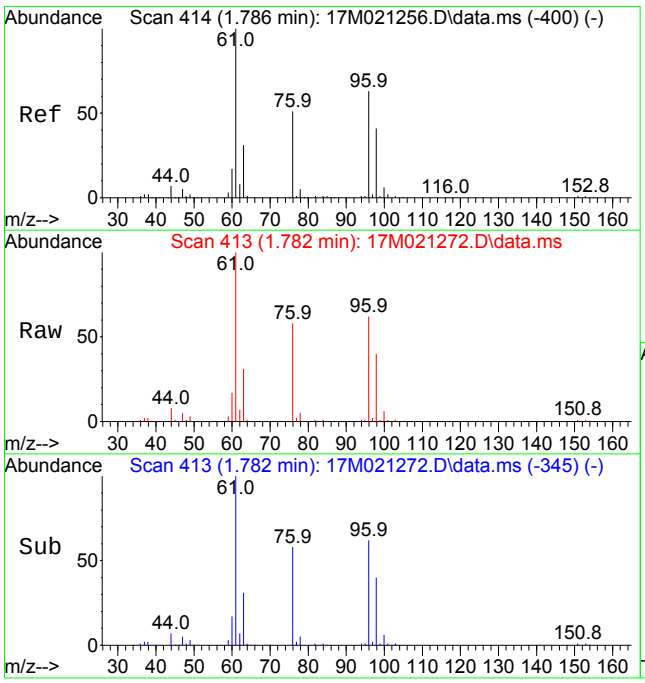


#9
Diethyl ether
Concen: 0.6342 ug/L
RT: 1.670 min Scan# 374
Delta R.T. 0.002 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 59 Resp: 1567

Ion	Ratio	Lower	Upper
59	100		
45	70.7	45.8	107.0
74	57.6	42.4	98.8

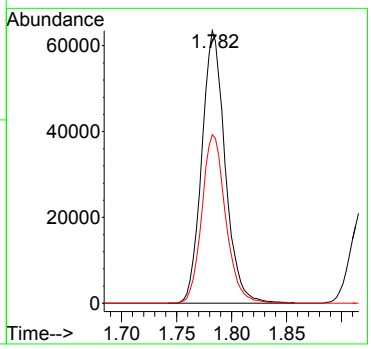


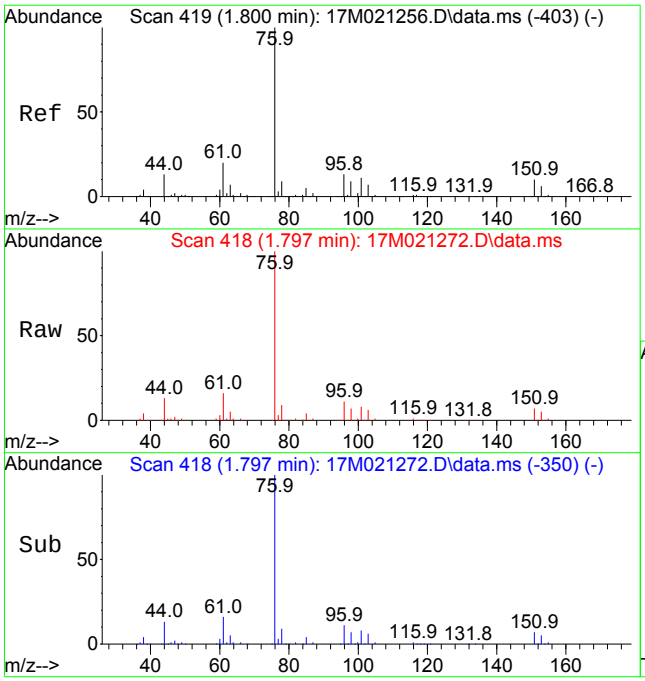


#10
1,1-Dichloroethene
Concen: 15.5443 ug/L
RT: 1.782 min Scan# 413
Delta R.T. -0.004 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 61 Resp: 93706

Ion	Ratio	Lower	Upper
61	100		
96	63.1	50.2	75.4

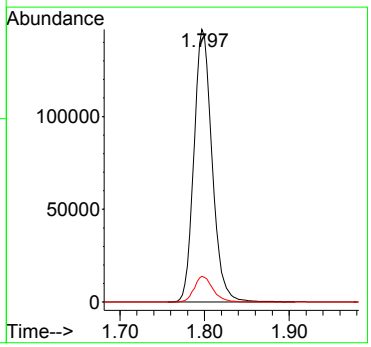


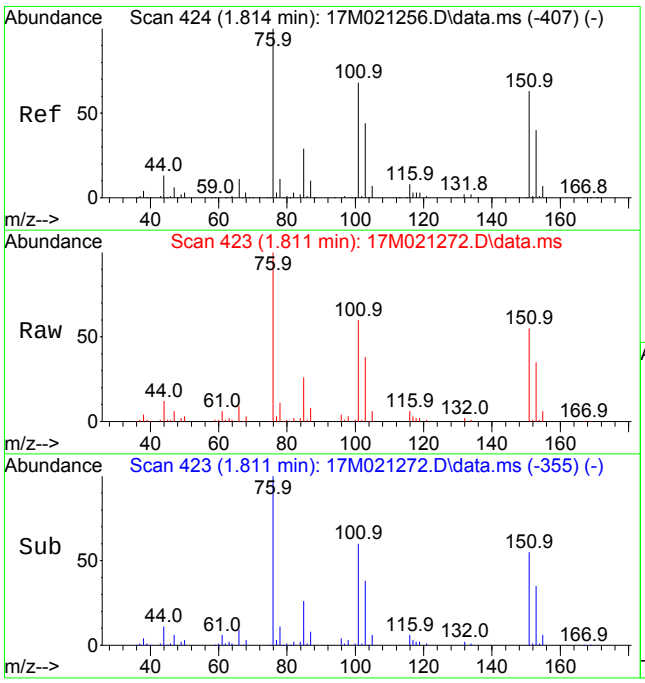


#11
Carbon Disulfide
Concen: 19.1438 ug/L
RT: 1.797 min Scan# 418
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 76 Resp: 218734

Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.9	11.9

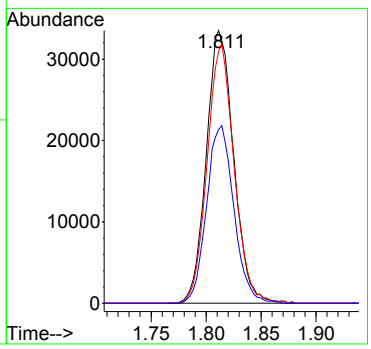


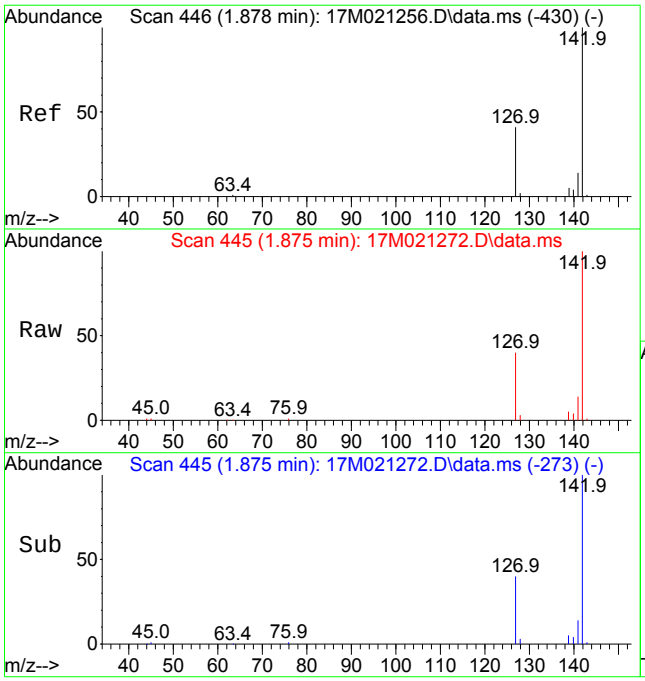


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 15.7054 ug/L
RT: 1.811 min Scan# 423
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:101 Resp: 58221

Ion	Ratio	Lower	Upper
101	100		
151	93.2	73.5	110.3
103	64.7	51.8	77.6

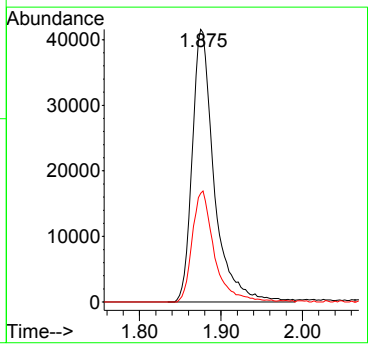


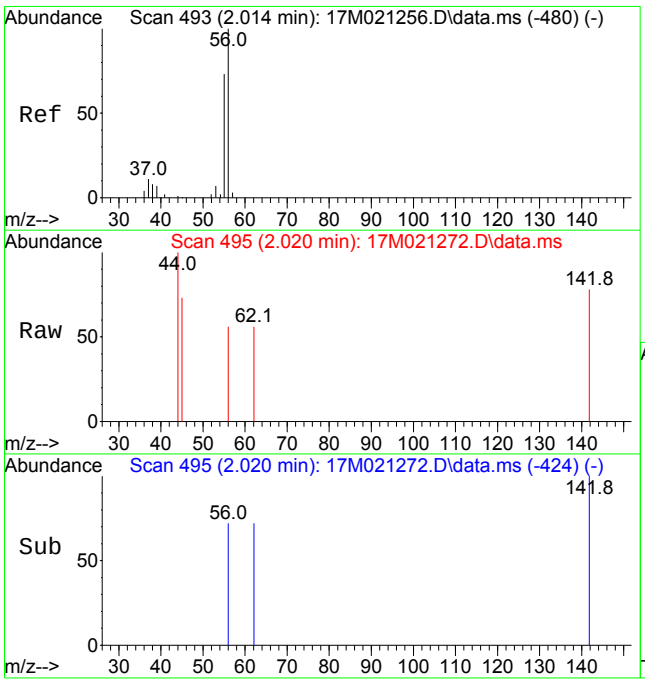


#13
Iodomethane
Concen: 14.6217 ug/L
RT: 1.875 min Scan# 445
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:142 Resp: 77785

Ion	Ratio	Lower	Upper
142	100		
127	41.5	33.3	49.9

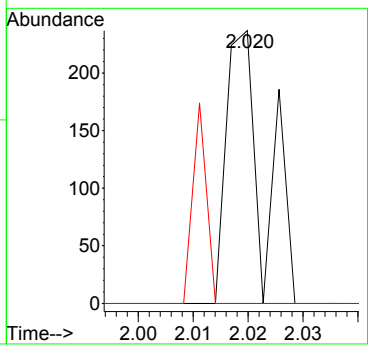


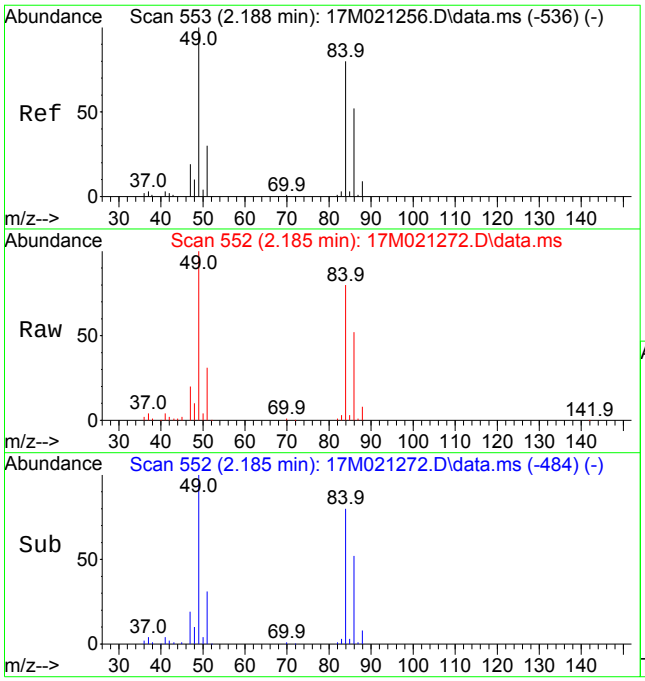


#14
Acrolein
Concen: 0.2558 ug/L
RT: 2.020 min Scan# 495
Delta R.T. 0.006 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 56 Resp: 112

Ion	Ratio	Lower	Upper
56	100		
55	0.0	44.3	103.5#

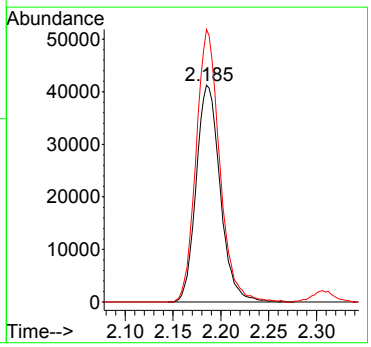


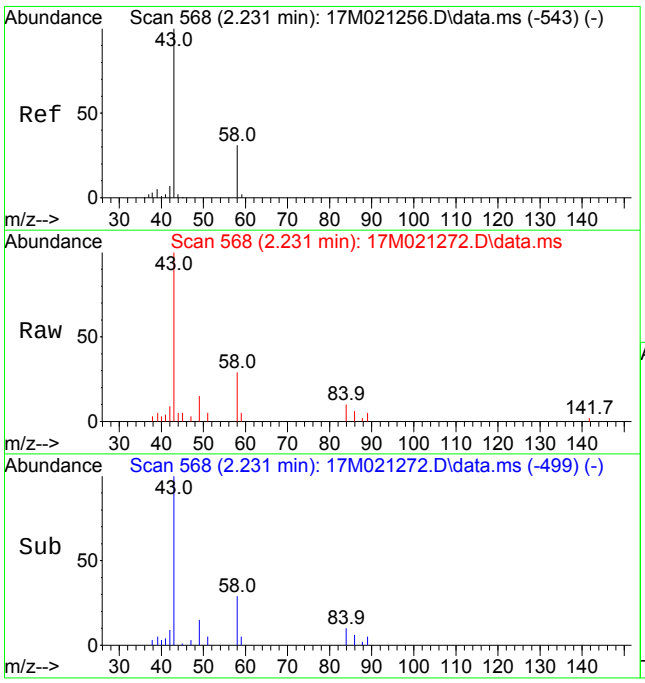


#15
Methylene Chloride
Concen: 17.8636 ug/L
RT: 2.185 min Scan# 552
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 84 Resp: 72059

Ion	Ratio	Lower	Upper
84	100		
49	123.5	99.0	148.6

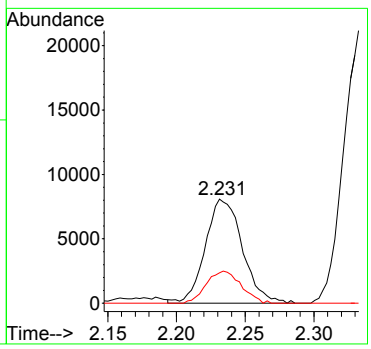


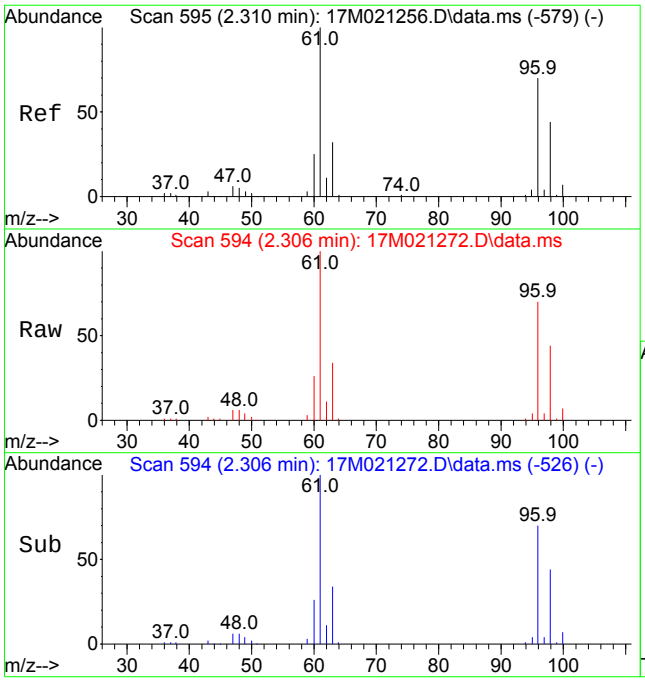


#16
Acetone
Concen: 25.9402 ug/L
RT: 2.231 min Scan# 568
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 43 Resp: 15174

Ion	Ratio	Lower	Upper
43	100		
58	28.9	17.6	41.2

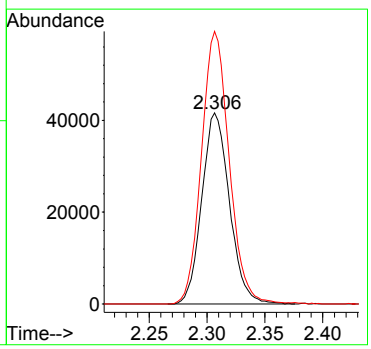


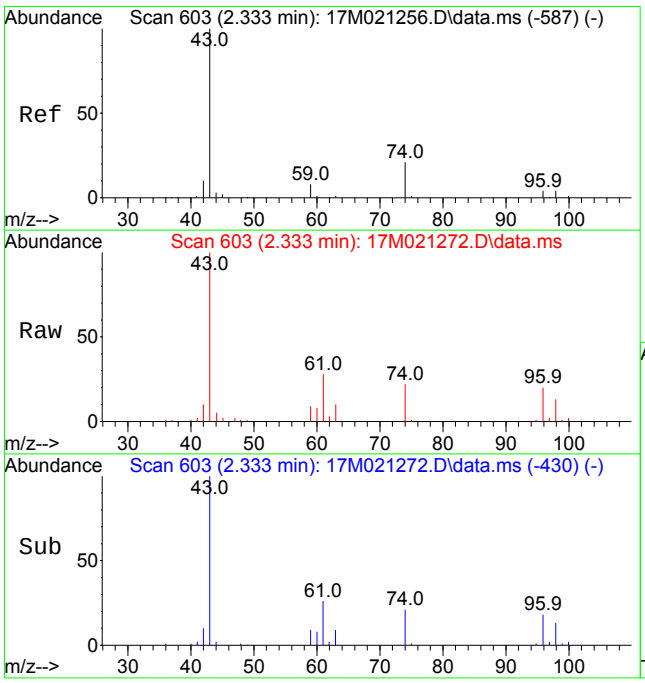


#17
trans-1,2-Dichloroethene
Concen: 17.6225 ug/L
RT: 2.306 min Scan# 594
Delta R.T. -0.004 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 96 Resp: 69271

Ion	Ratio	Lower	Upper
96	100		
61	143.1	115.4	173.0

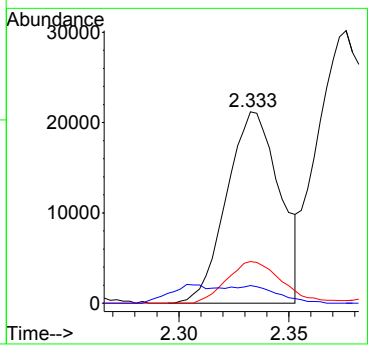


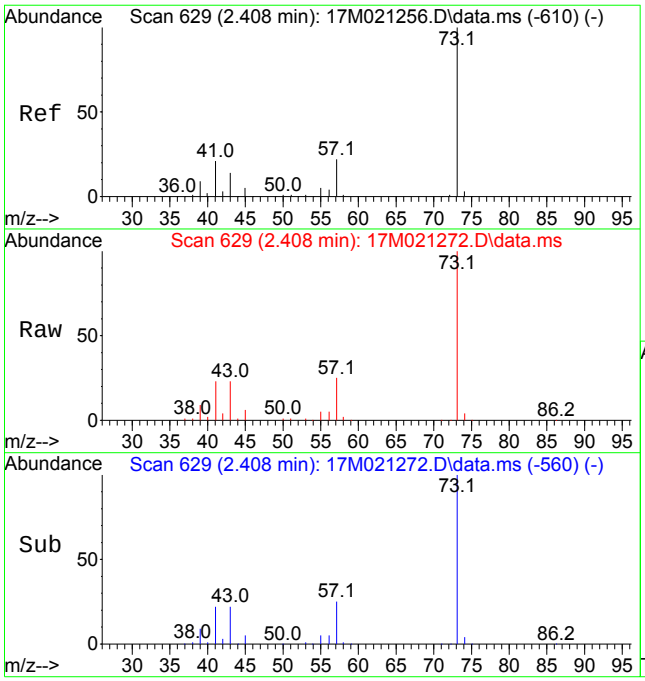


#18
Methyl acetate
Concen: 18.8702 ug/L
RT: 2.333 min Scan# 603
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 43 Resp: 35669

Ion	Ratio	Lower	Upper
43	100		
74	22.8	21.3	21.3#
59	8.1	13.6	20.4#

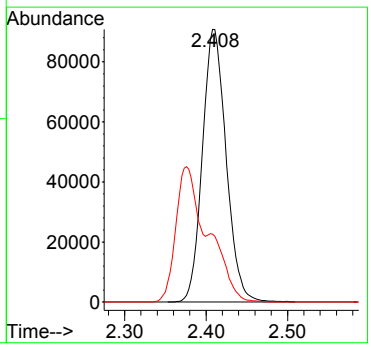


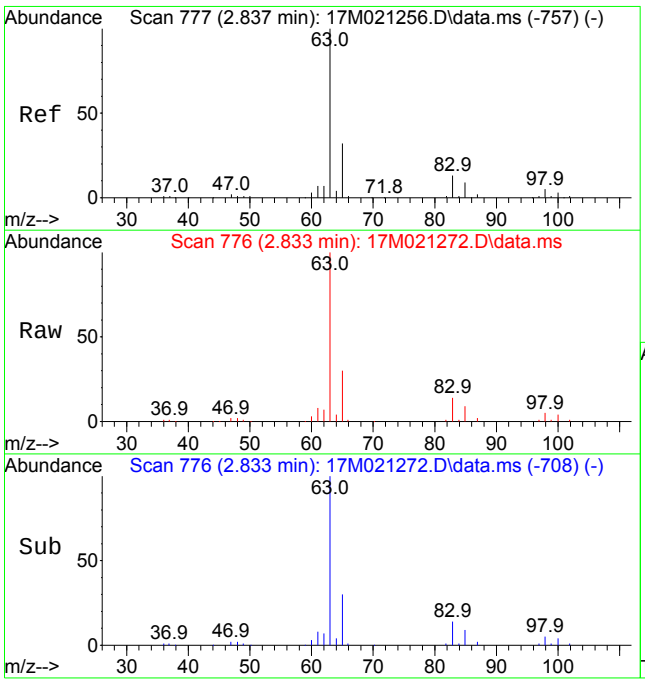


#19
Methyl Tert Butyl Ether
Concen: 21.6350 ug/L
RT: 2.408 min Scan# 629
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 73 Resp: 184045

Ion	Ratio	Lower	Upper
73	100		
57	66.8	17.8	26.6#

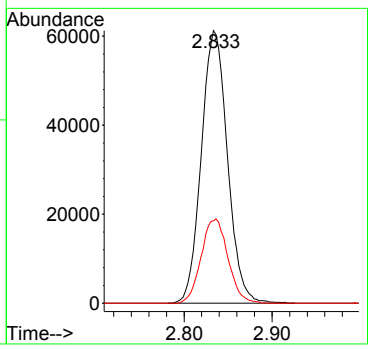


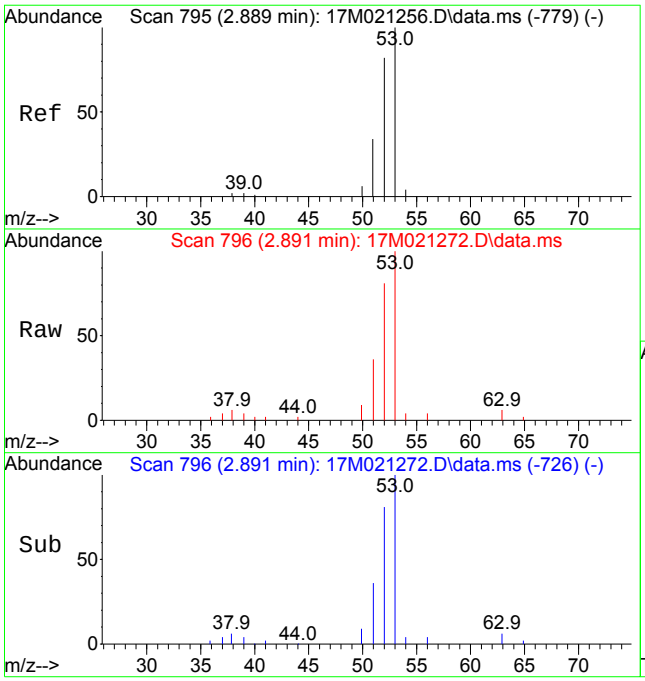


#20
1,1-Dichloroethane
Concen: 17.1994 ug/L
RT: 2.833 min Scan# 776
Delta R.T. -0.004 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 63 Resp: 126683

Ion	Ratio	Lower	Upper
63	100		
65	31.6	25.4	38.2

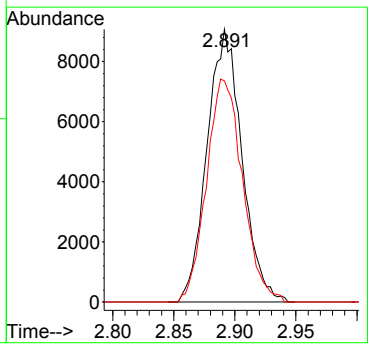


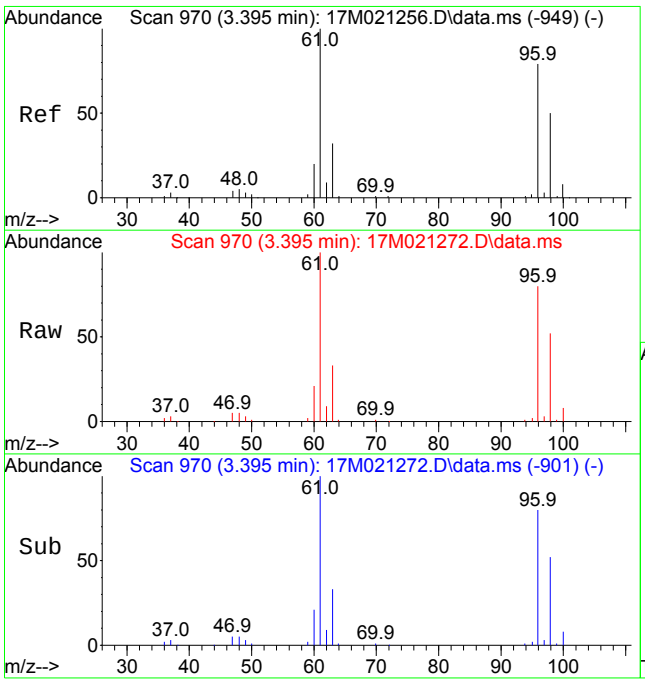


#21
Acrylonitrile
Concen: 22.4021 ug/L
RT: 2.891 min Scan# 796
Delta R.T. 0.002 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 53 Resp: 18005

Ion	Ratio	Lower	Upper
53	100		
52	84.4	50.8	118.4

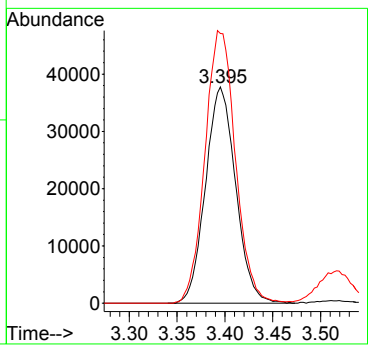


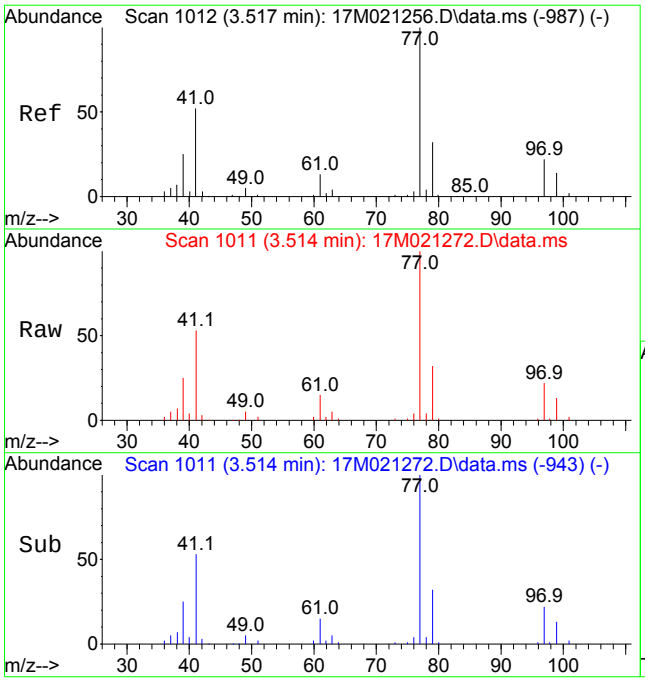


#23
cis-1,2-Dichloroethene
Concen: 18.9440 ug/L
RT: 3.395 min Scan# 970
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 96 Resp: 83032

Ion	Ratio	Lower	Upper
96	100		
61	127.3	102.6	154.0

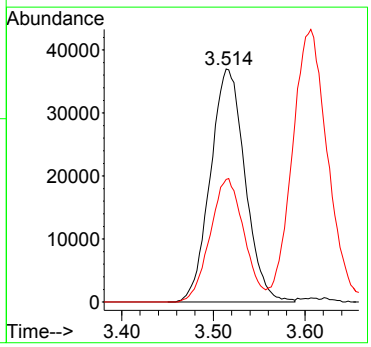


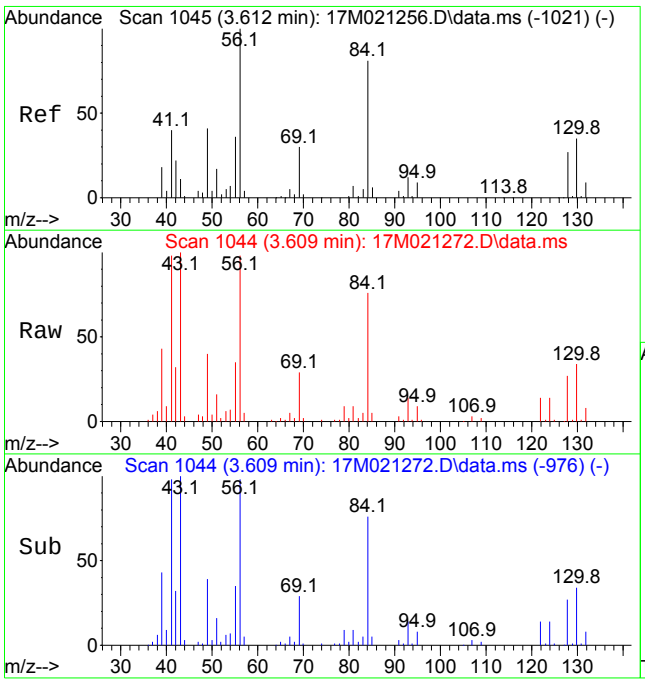


#24
2,2-Dichloropropane
Concen: 16.6643 ug/L
RT: 3.514 min Scan# 1011
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 77 Resp: 97247

Ion	Ratio	Lower	Upper
77	100		
41	51.5	42.0	63.0

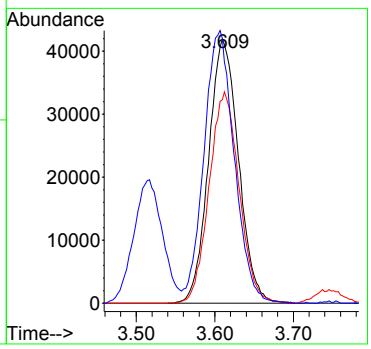


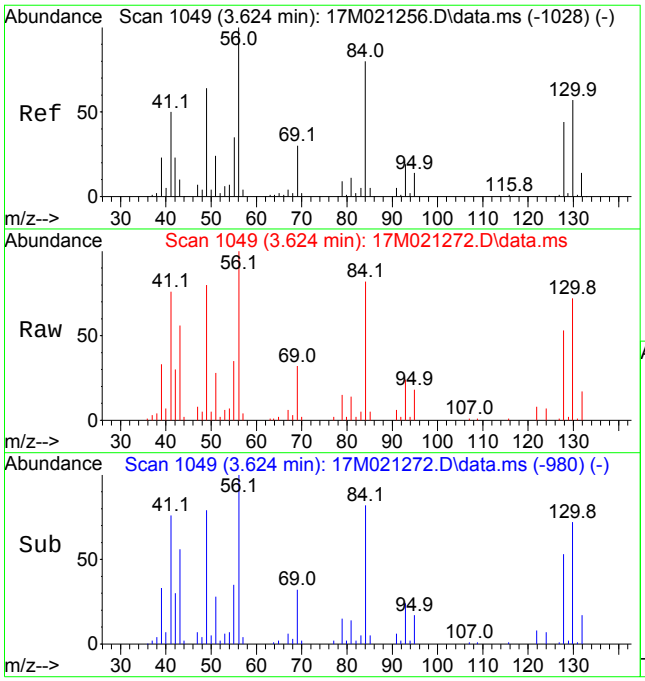


#25
Cyclohexane
Concen: 17.7452 ug/L
RT: 3.609 min Scan# 1044
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 56 Resp: 110768

Ion	Ratio	Lower	Upper
56	100		
84	80.2	64.1	96.1
41	104.7	44.2	66.4#

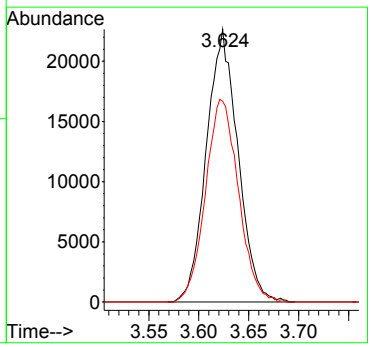


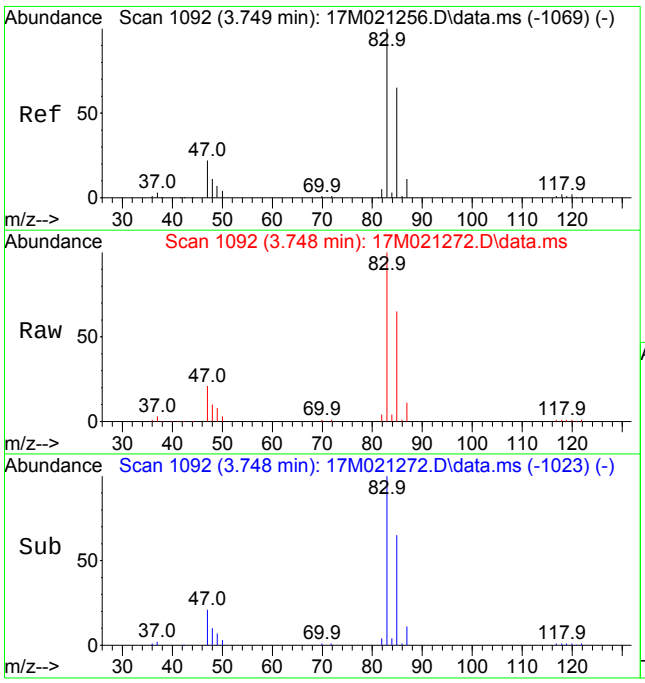


#26
Bromochloromethane
Concen: 18.7004 ug/L
RT: 3.624 min Scan# 1049
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:130 Resp: 49859

Ion	Ratio	Lower	Upper
130	100		
128	77.6	62.1	93.1

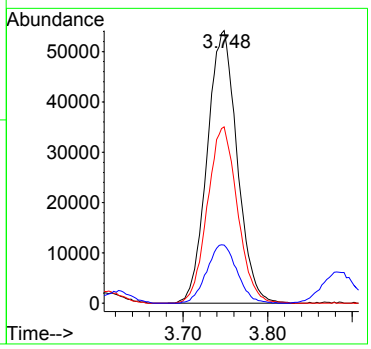


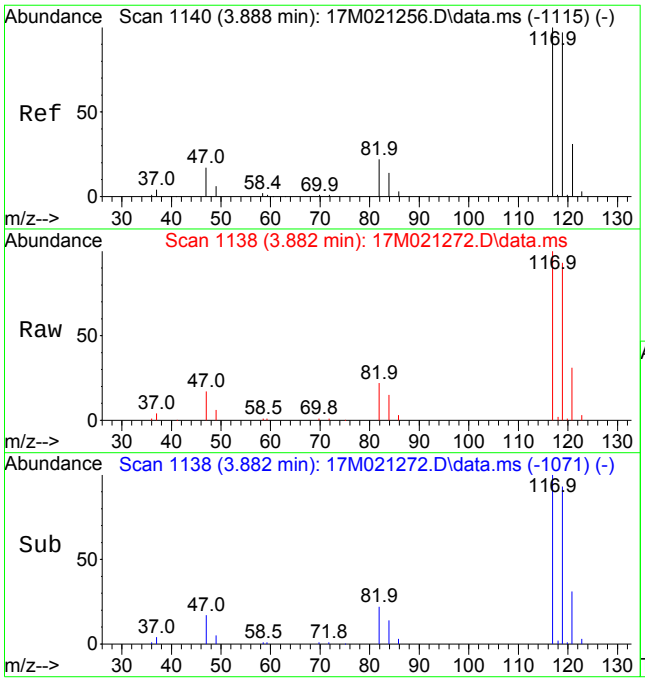


#27
Chloroform
Concen: 18.2006 ug/L
RT: 3.748 min Scan# 1092
Delta R.T. -0.001 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 83 Resp: 133166

Ion	Ratio	Lower	Upper
83	100		
85	64.9	39.0	91.0
47	21.7	13.3	30.9

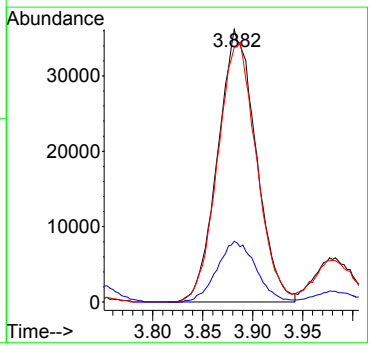


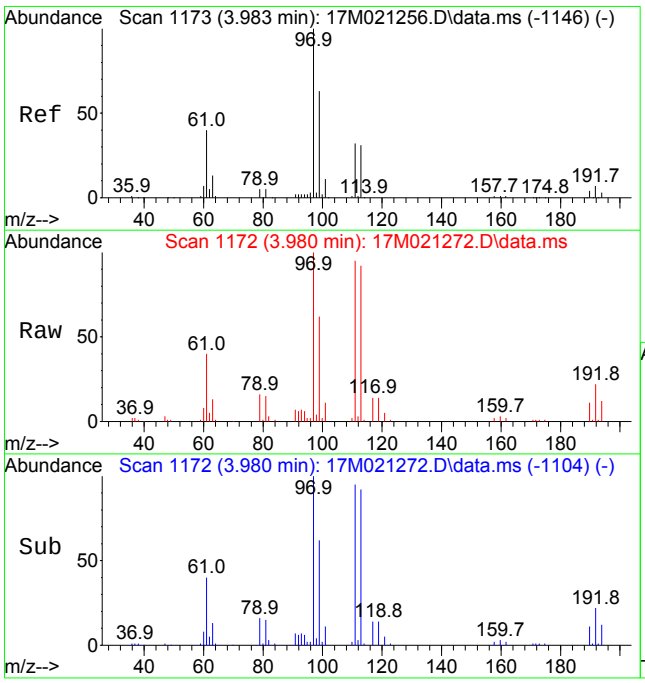


#28
Carbon Tetrachloride
Concen: 17.4047 ug/L
RT: 3.882 min Scan# 1138
Delta R.T. -0.006 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:117 Resp: 96373

Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.3	115.9
82	22.7	18.1	27.1

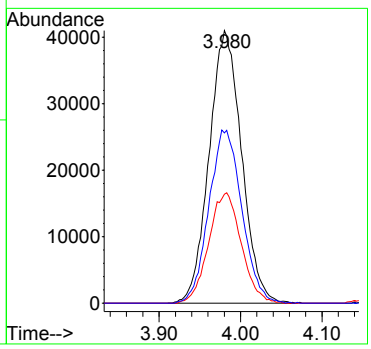


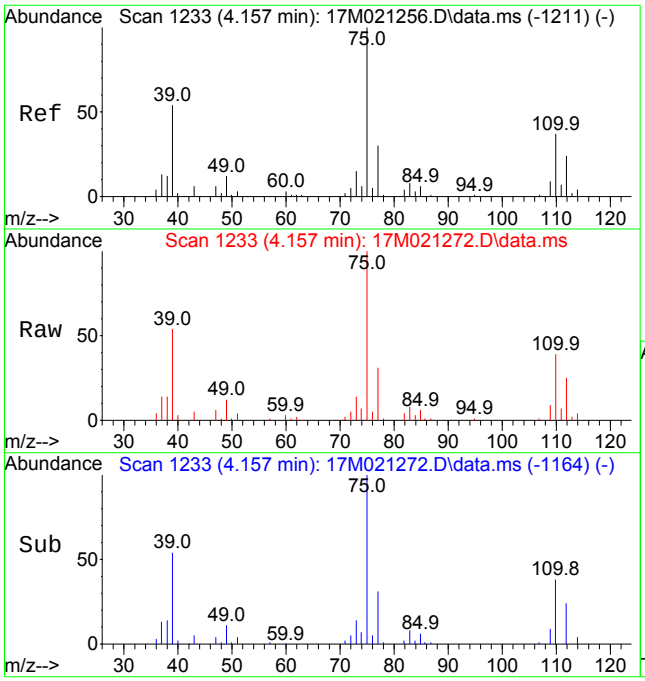


#30
1,1,1-Trichloroethane
Concen: 17.3831 ug/L
RT: 3.980 min Scan# 1172
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 97 Resp: 113560

Ion	Ratio	Lower	Upper
97	100		
61	40.7	24.6	57.4
99	64.7	51.7	77.5

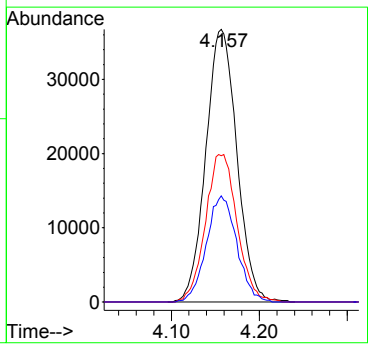


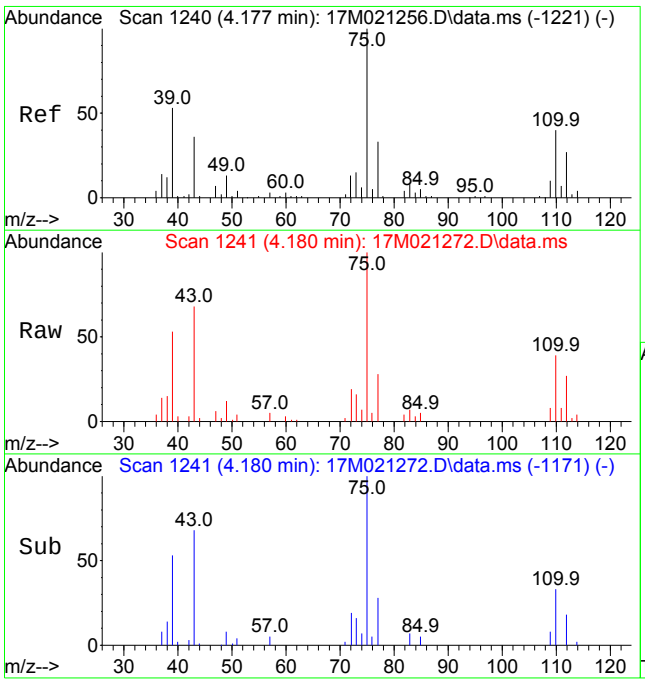


#31
1,1-Dichloropropene
Concen: 16.9039 ug/L
RT: 4.157 min Scan# 1233
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 75 Resp: 90280

Ion	Ratio	Lower	Upper
75	100		
39	55.1	32.8	76.6
110	38.1	22.8	53.2

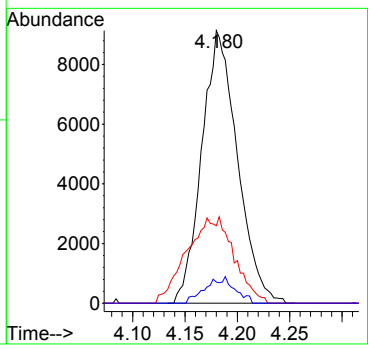


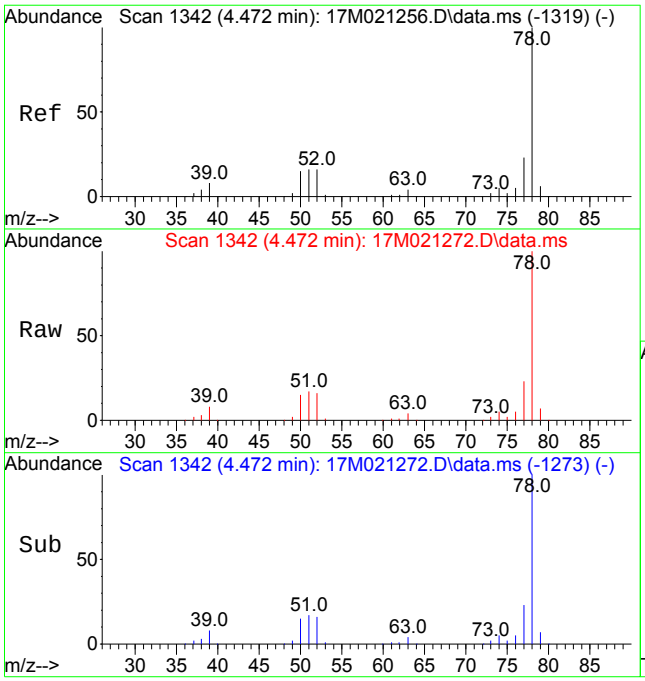


#32
2-Butanone
Concen: 23.3594 ug/L
RT: 4.180 min Scan# 1241
Delta R.T. 0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 43 Resp: 21626

Ion	Ratio	Lower	Upper
43	100		
72	41.8	40.0	60.0
57	7.9	6.4	9.6

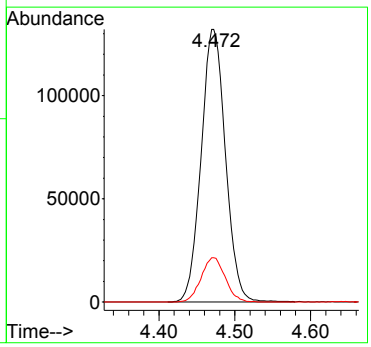


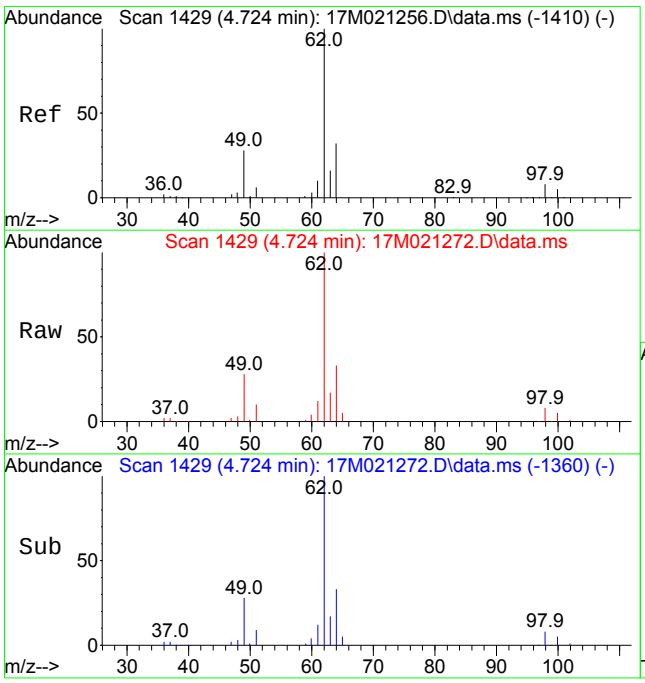


#33
Benzene
Concen: 18.1919 ug/L
RT: 4.472 min Scan# 1342
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 78 Resp: 294578

Ion	Ratio	Lower	Upper
78	100		
52	16.1	13.0	19.4

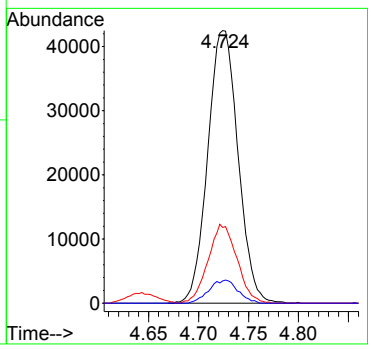


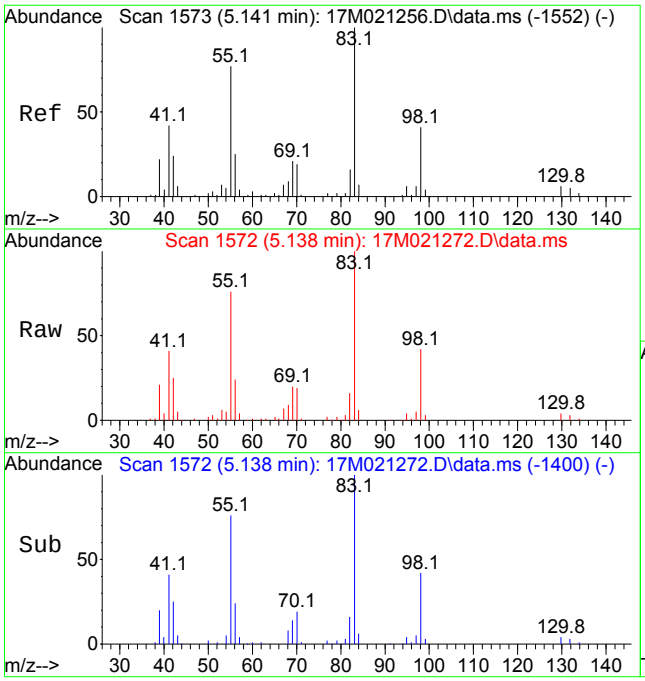


#35
1,2-Dichloroethane
Concen: 19.5595 ug/L
RT: 4.724 min Scan# 1429
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 62 Resp: 89687

Ion	Ratio	Lower	Upper
62	100		
49	27.6	16.7	38.9
98	8.2	5.0	11.6

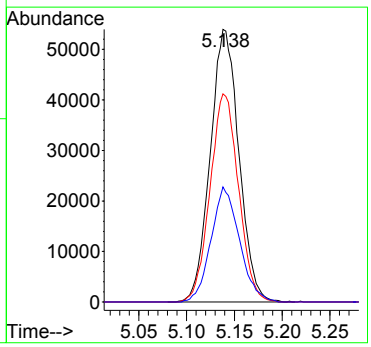


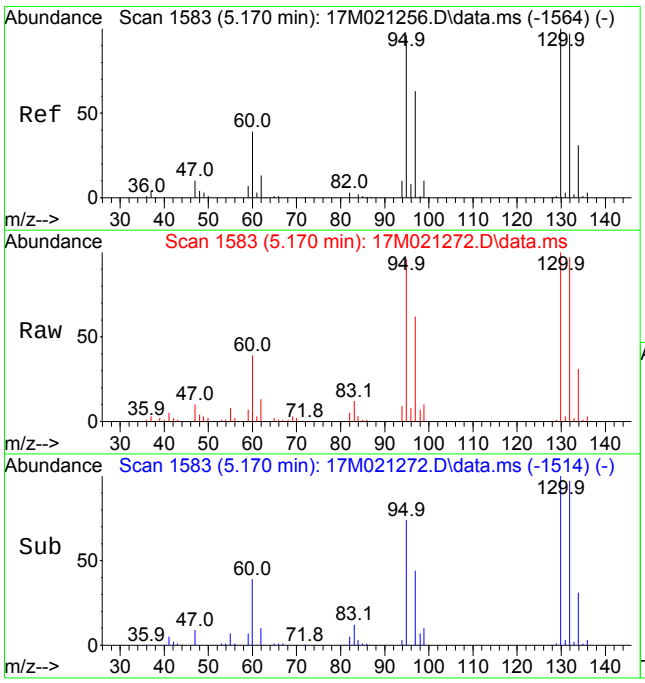


#36
Methylcyclohexane
Concen: 17.4808 ug/L
RT: 5.138 min Scan# 1572
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 83 Resp: 112660

Ion	Ratio	Lower	Upper
83	100		
55	75.7	60.5	90.7
98	41.9	33.4	50.2

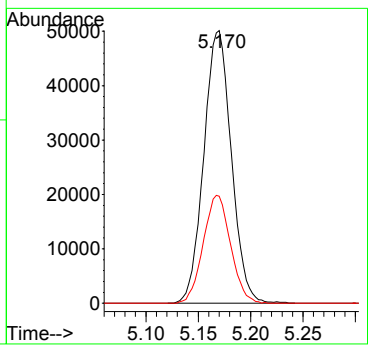


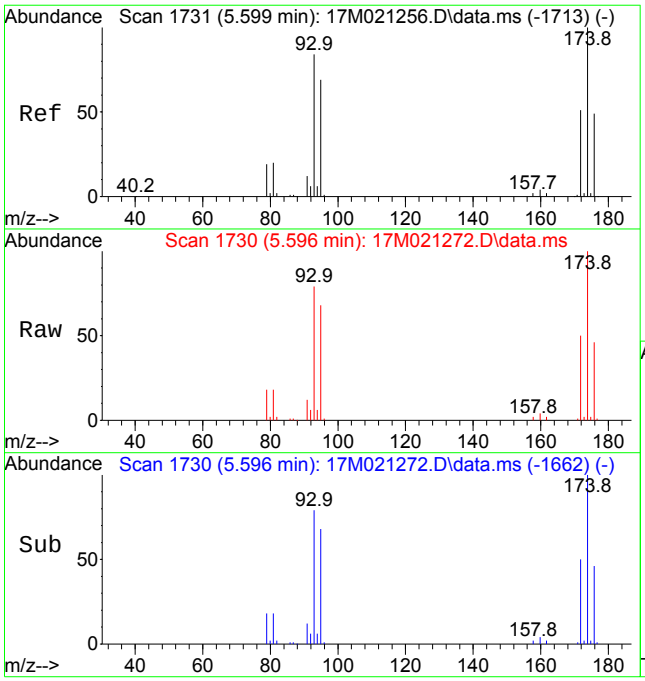


#37
Trichloroethene
Concen: 16.7343 ug/L
RT: 5.170 min Scan# 1583
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:130 Resp: 91609

Ion	Ratio	Lower	Upper
130	100		
60	39.3	23.6	55.2

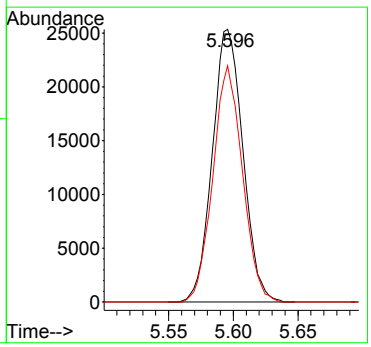


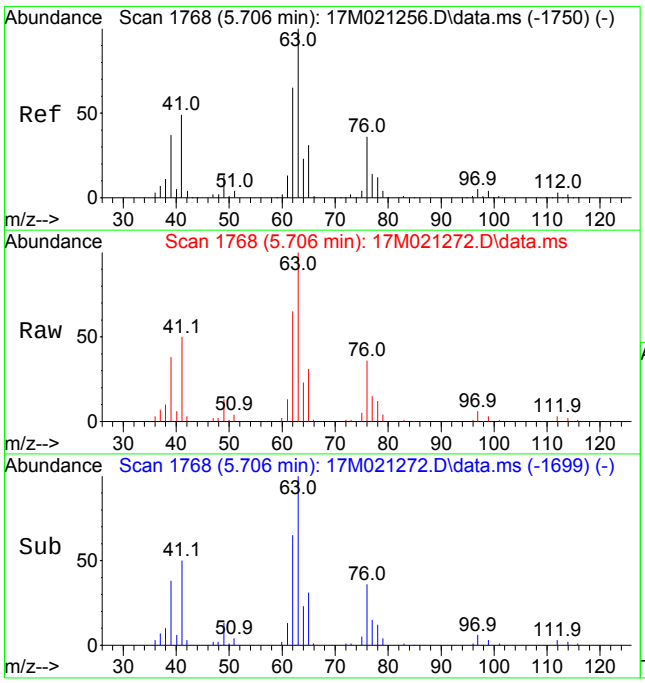


#38
Dibromomethane
Concen: 18.8343 ug/L
RT: 5.596 min Scan# 1730
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 93 Resp: 41519

Ion	Ratio	Lower	Upper
93	100		
95	83.5	67.0	100.4

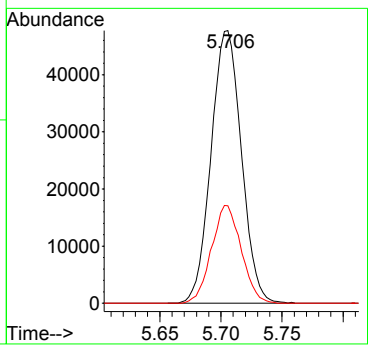


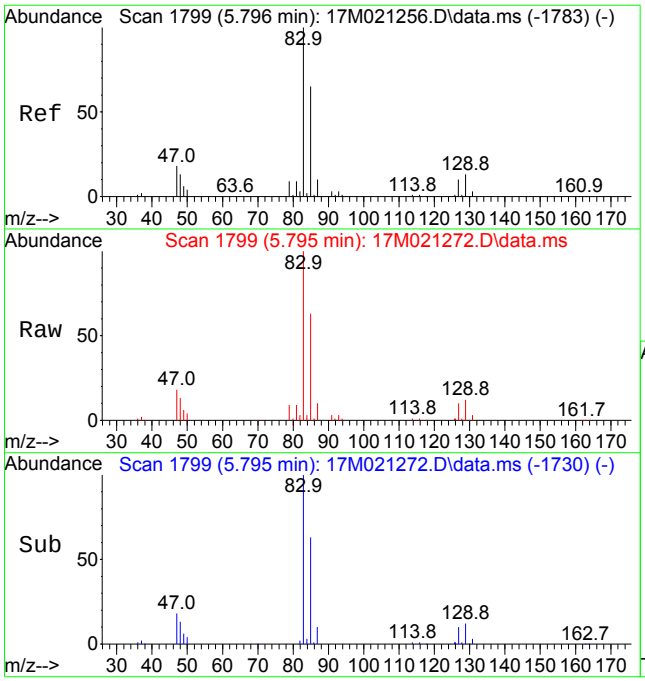


#39
1,2-Dichloropropane
Concen: 19.3467 ug/L
RT: 5.706 min Scan# 1768
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 63 Resp: 82538

Ion	Ratio	Lower	Upper
63	100		
76	35.0	20.8	48.6

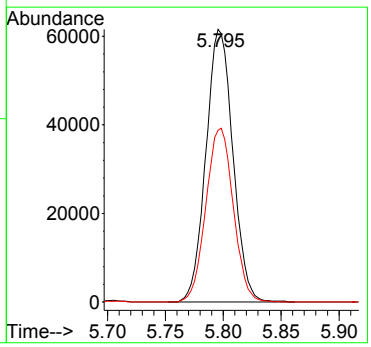


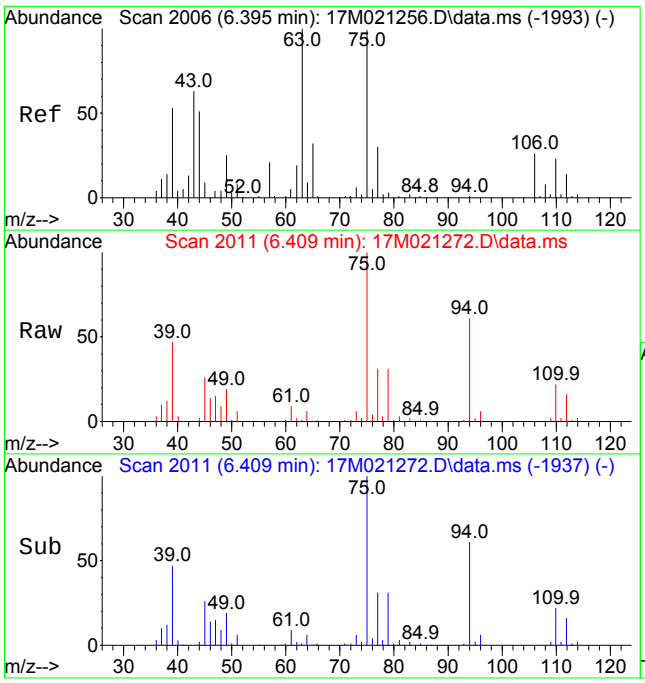


#40
Bromodichloromethane
Concen: 19.2878 ug/L
RT: 5.795 min Scan# 1799
Delta R.T. -0.001 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 83 Resp: 99895

Ion	Ratio	Lower	Upper
83	100		
85	64.7	51.7	77.5

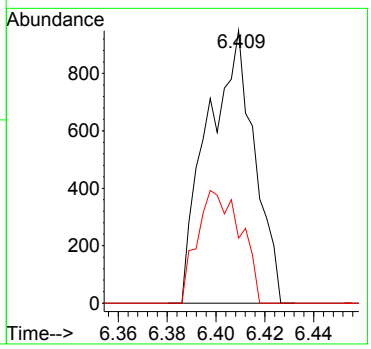


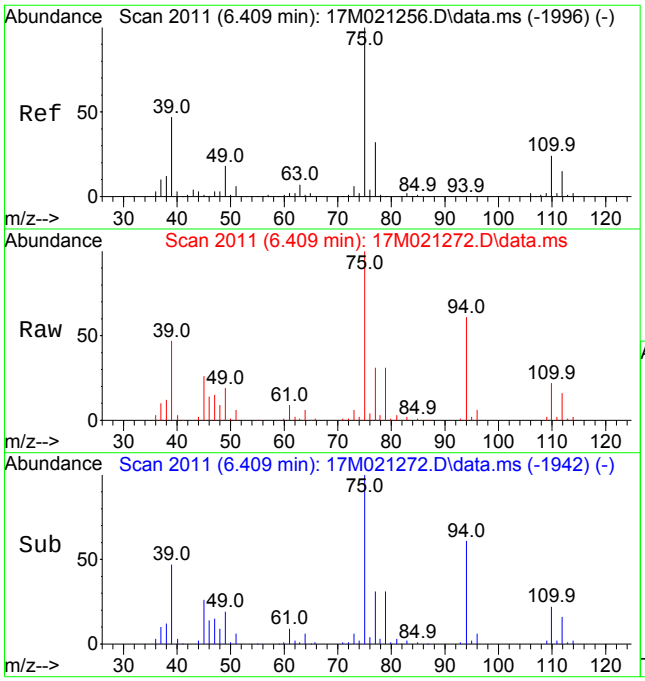


#42
2-Chloroethyl Vinyl Ether
Concen: 1.4210 ug/L
RT: 6.409 min Scan# 2011
Delta R.T. 0.014 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 63 Resp: 1259

Ion	Ratio	Lower	Upper
63	100		
65	38.4	19.1	44.7

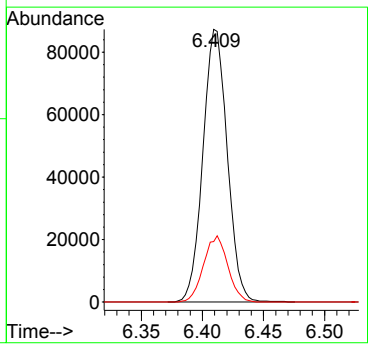


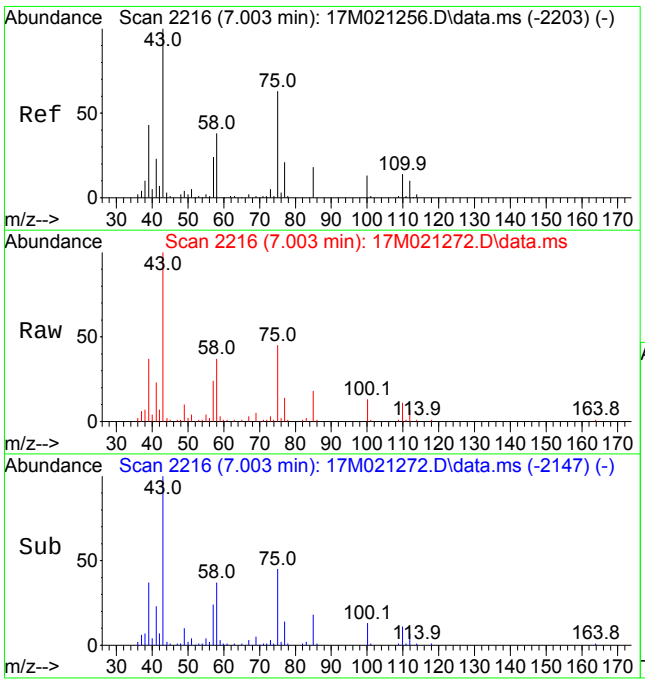


#43
cis-1,3-Dichloropropene
Concen: 21.2991 ug/L
RT: 6.409 min Scan# 2011
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 75 Resp: 120958

Ion	Ratio	Lower	Upper
75	100		
110	24.1	19.4	29.0

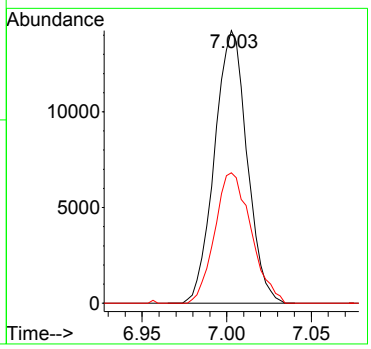


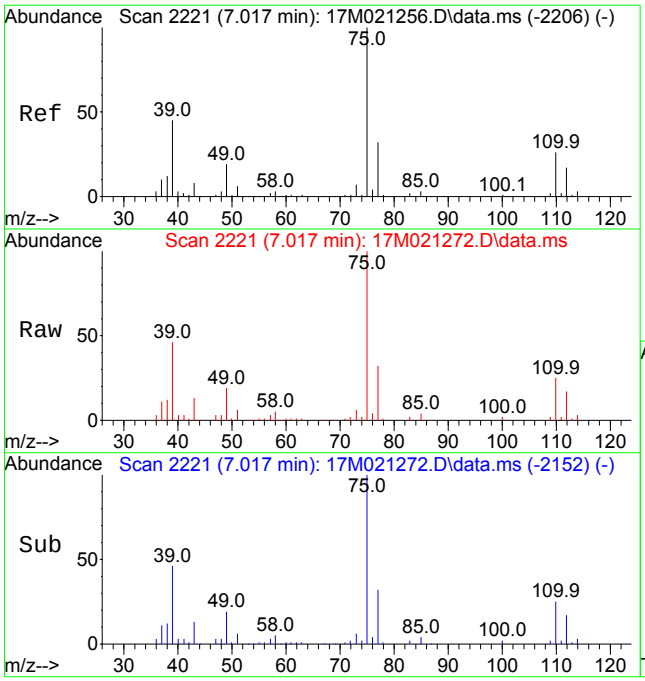


#44
4-Methyl-2-Pentanone
Concen: 23.1911 ug/L
RT: 7.003 min Scan# 2216
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 58 Resp: 18977

Ion	Ratio	Lower	Upper
58	100		
85	53.5	33.6	78.4

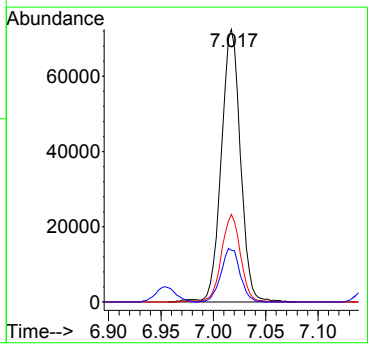


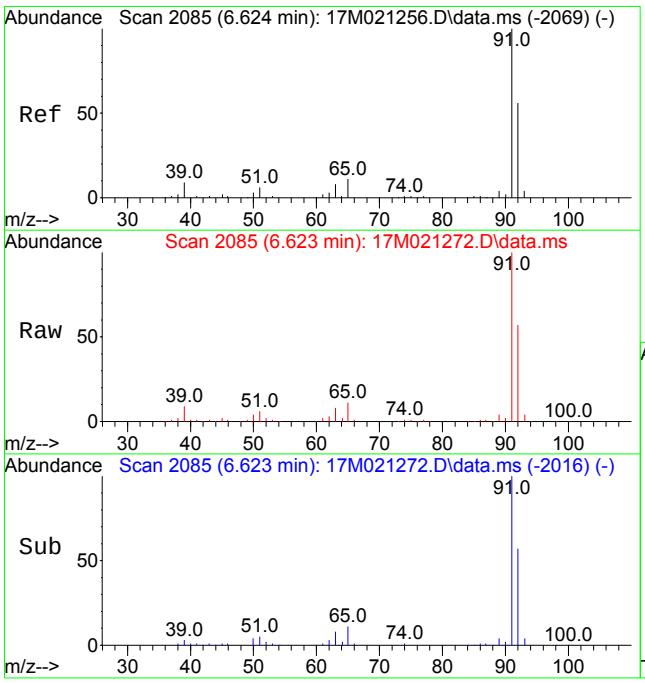


#45
trans-1,3-Dichloropropene
Concen: 20.1572 ug/L
RT: 7.017 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 75 Resp: 92895

Ion	Ratio	Lower	Upper
75	100		
77	32.0	19.4	45.2
49	19.5	11.8	27.4

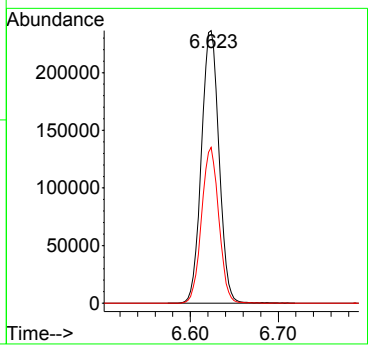


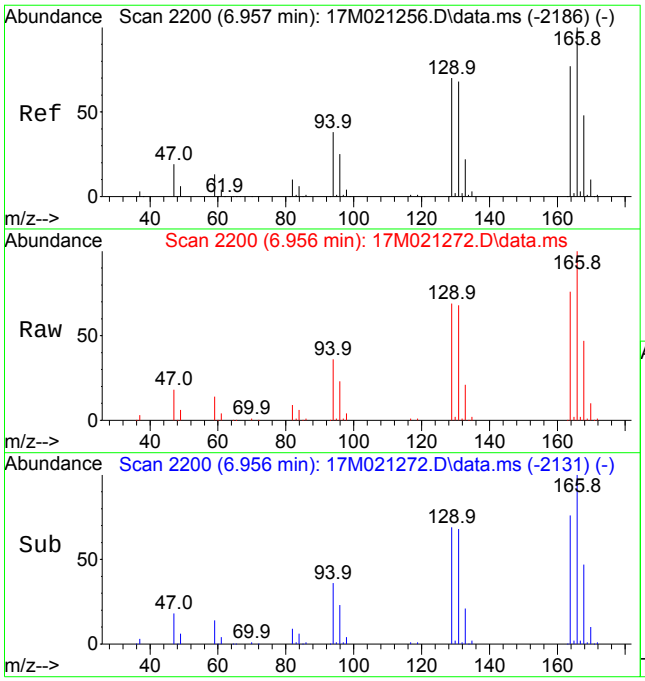


#48
Toluene
Concen: 18.4935 ug/L
RT: 6.623 min Scan# 2085
Delta R.T. -0.001 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 91 Resp: 329377

Ion	Ratio	Lower	Upper
91	100		
92	56.0	33.4	78.0

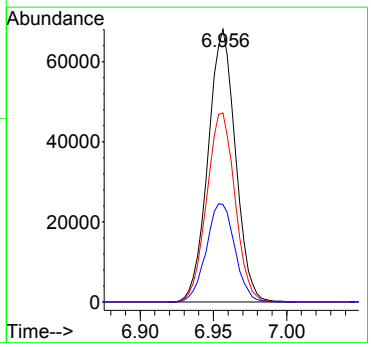


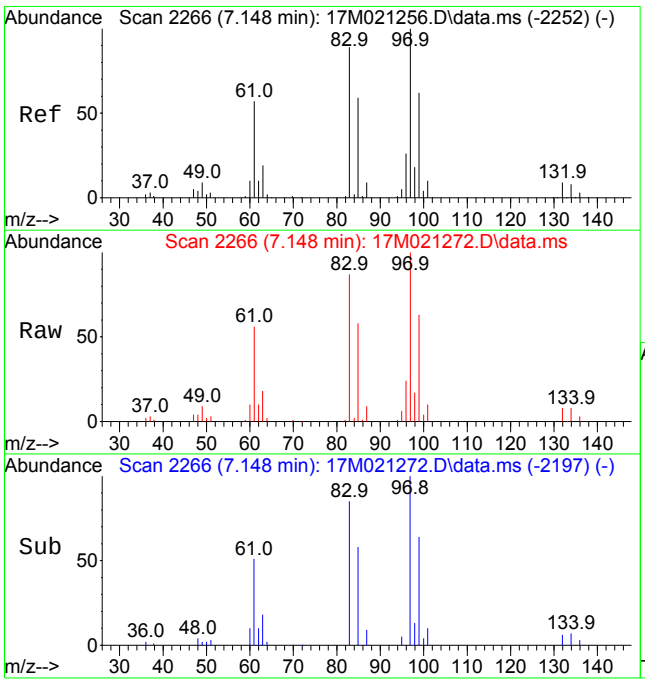


#49
Tetrachloroethene
Concen: 17.1077 ug/L
RT: 6.956 min Scan# 2200
Delta R.T. -0.001 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:166 Resp: 88609

Ion	Ratio	Lower	Upper
166	100		
129	71.4	56.7	85.1
94	37.6	30.7	46.1

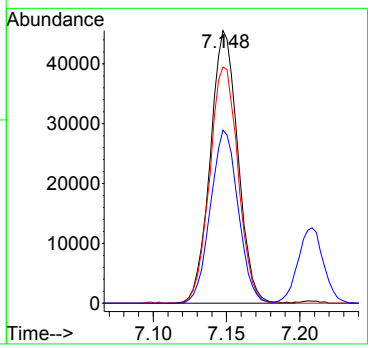


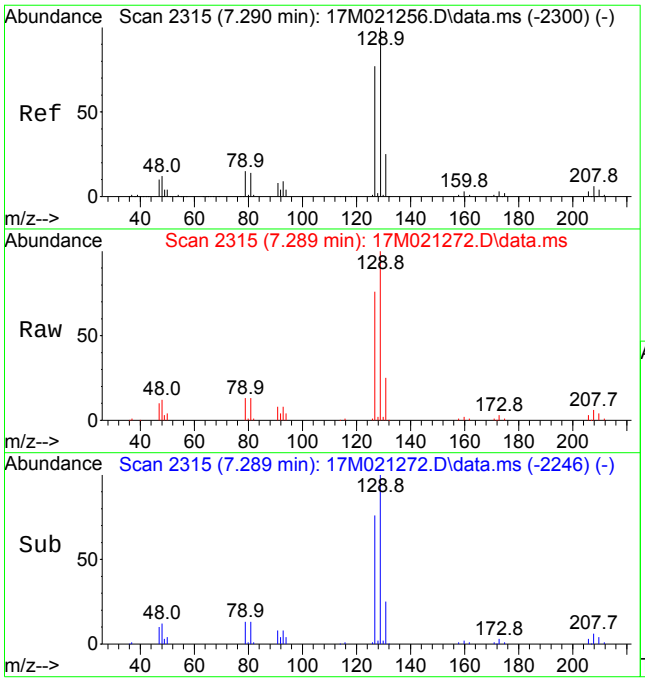


#50
1,1,2-Trichloroethane
Concen: 20.2993 ug/L
RT: 7.148 min Scan# 2266
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 97 Resp: 59816

Ion	Ratio	Lower	Upper
97	100		
83	88.9	53.5	124.9
99	63.7	37.8	88.2

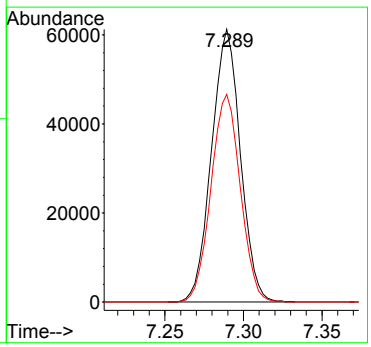


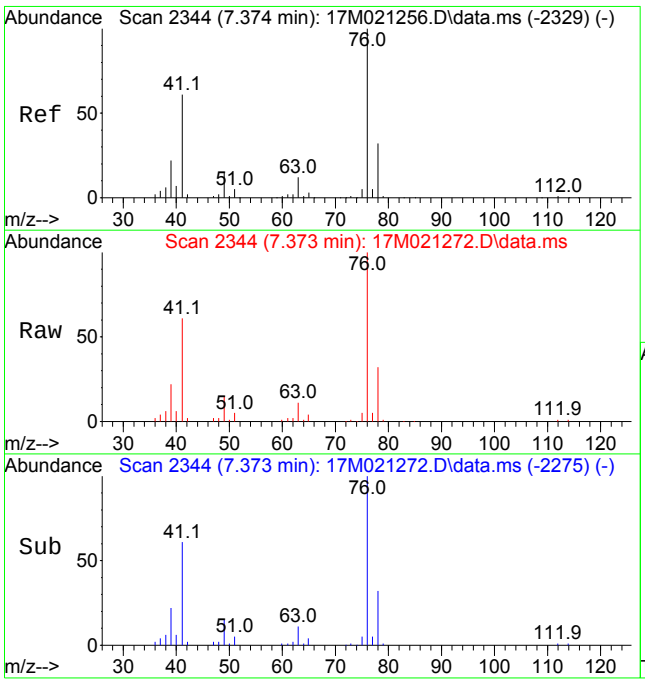


#51
Dibromochloromethane
Concen: 19.2730 ug/L
RT: 7.289 min Scan# 2315
Delta R.T. -0.001 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:129 Resp: 78452

Ion	Ratio	Lower	Upper
129	100		
127	77.2	61.4	92.2

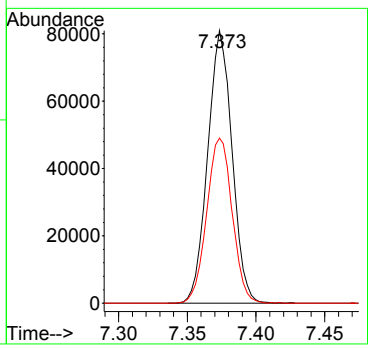


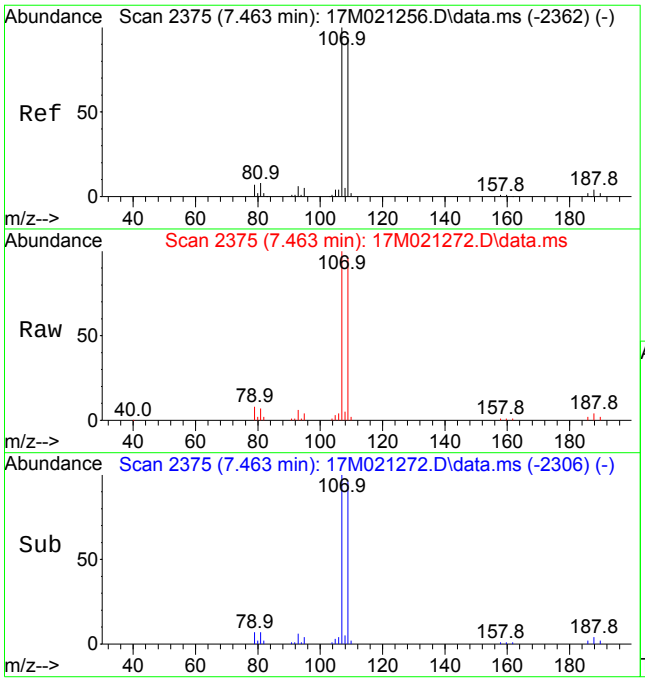


#52
1,3-Dichloropropane
Concen: 21.1482 ug/L
RT: 7.373 min Scan# 2344
Delta R.T. -0.001 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 76 Resp: 100223

Ion	Ratio	Lower	Upper
76	100		
41	63.3	37.4	87.2

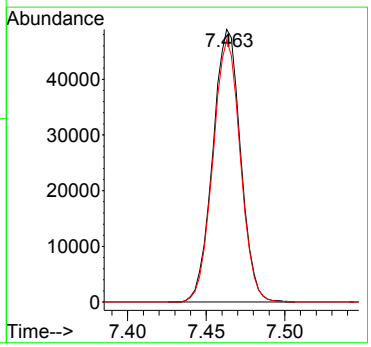


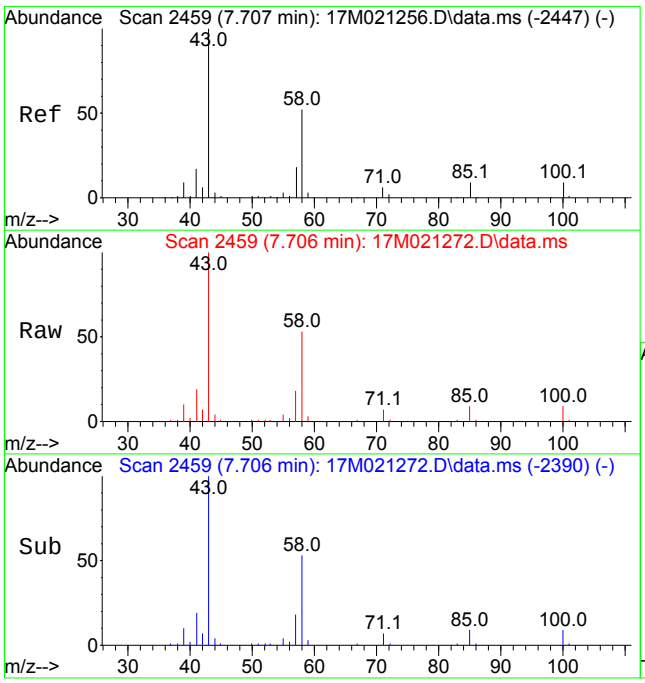


#53
1,2-Dibromoethane
Concen: 20.4595 ug/L
RT: 7.463 min Scan# 2375
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:107 Resp: 60315

Ion	Ratio	Lower	Upper
107	100		
109	94.7	56.6	132.2

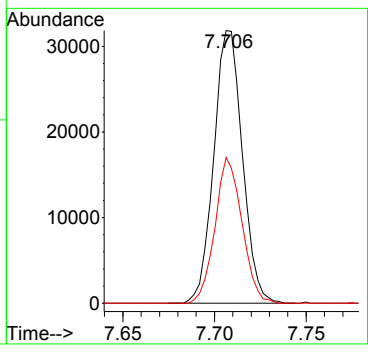


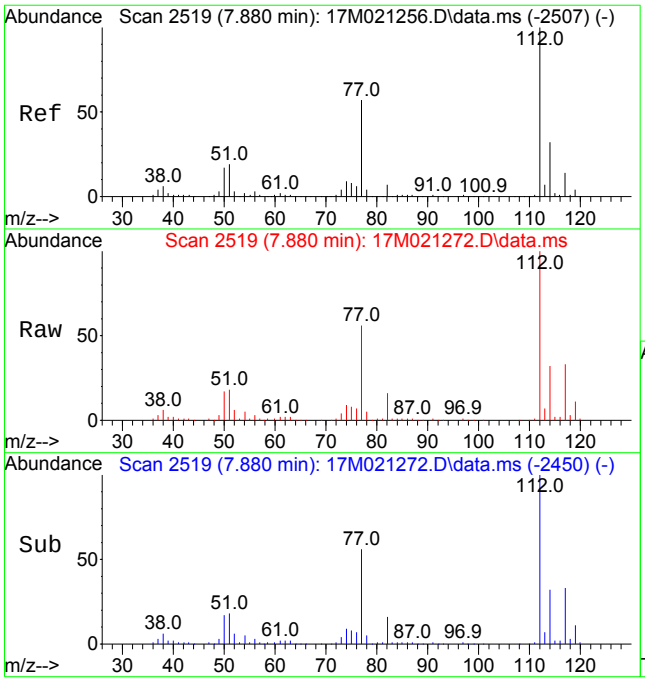


#54
2-Hexanone
Concen: 23.5004 ug/L
RT: 7.706 min Scan# 2459
Delta R.T. -0.001 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 43 Resp: 34574

Ion	Ratio	Lower	Upper
43	100		
58	50.3	41.4	62.2

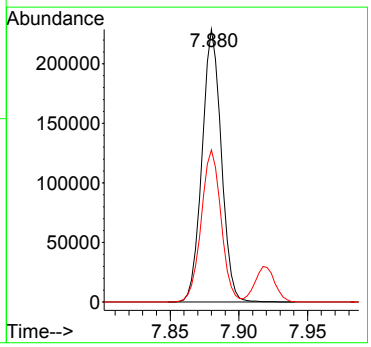


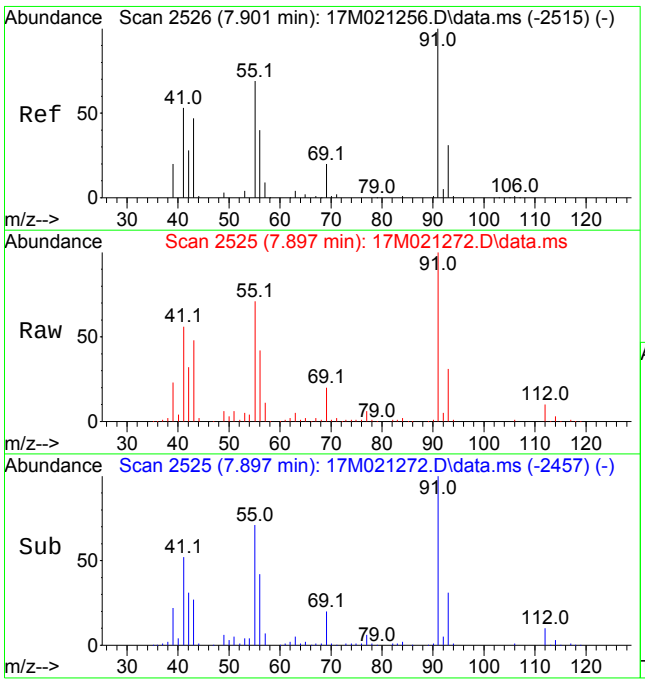


#55
Chlorobenzene
Concen: 19.0425 ug/L
RT: 7.880 min Scan# 2519
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:112 Resp: 222857

Ion	Ratio	Lower	Upper
112	100		
77	57.5	34.3	80.1

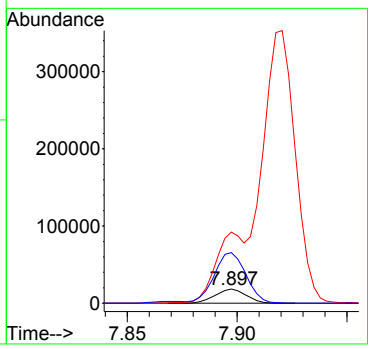


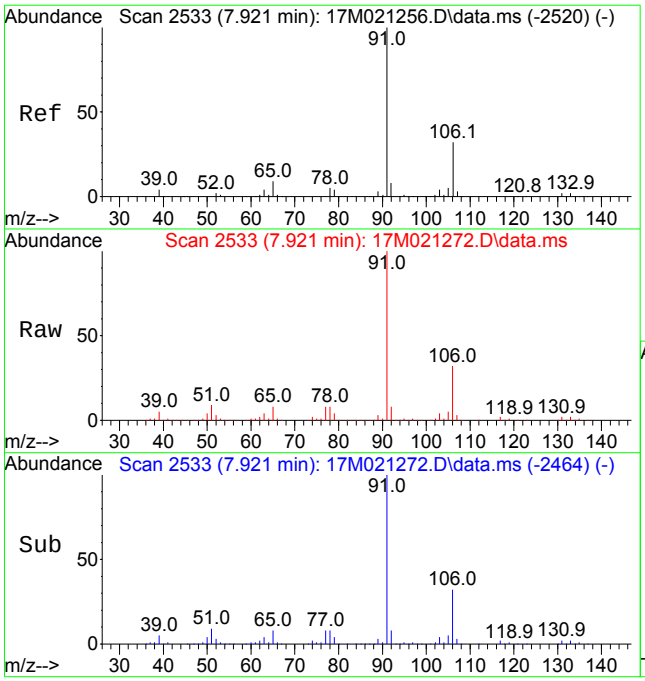


#56
1-Chlorohexane
Concen: 18.6150 ug/L
RT: 7.897 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 69 Resp: 18036

Ion	Ratio	Lower	Upper
69	100		
91	2487.8	1913.8	2870.6
55	382.1	297.2	445.8

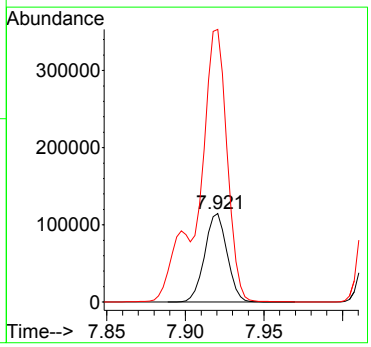


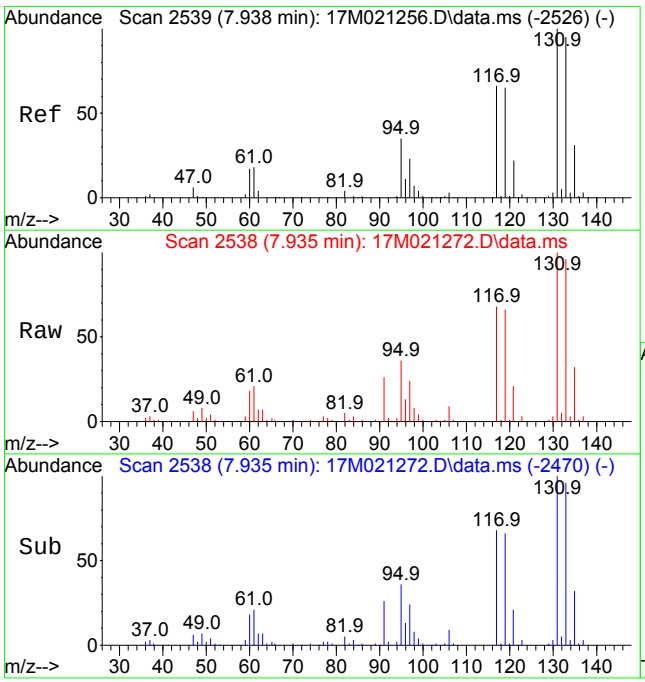


#57
Ethylbenzene
Concen: 18.4740 ug/L
RT: 7.921 min Scan# 2533
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:106 Resp: 113713

Ion	Ratio	Lower	Upper
106	100		
91	394.6	318.2	477.2

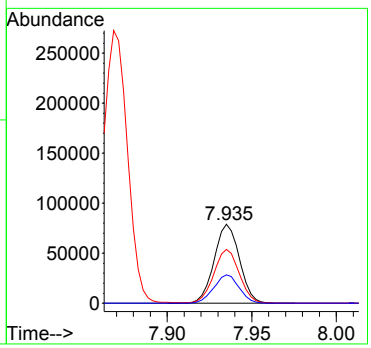


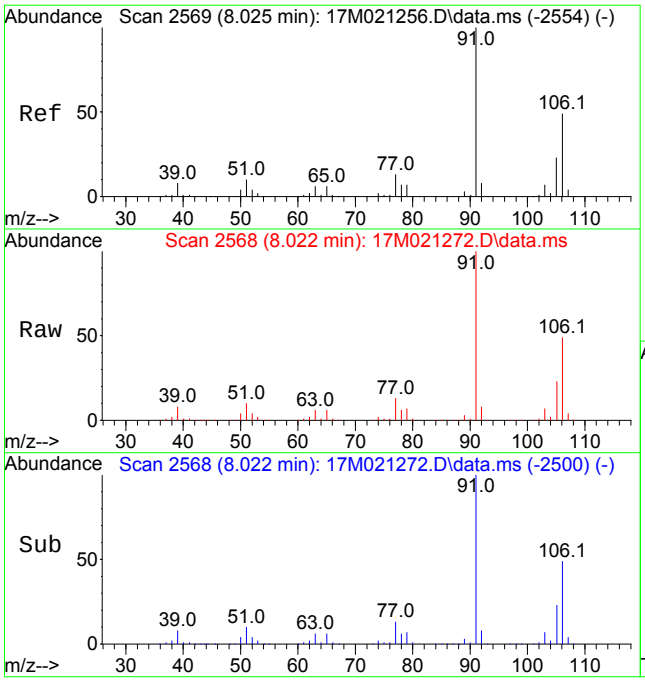


#58
1,1,1,2-Tetrachloroethane
Concen: 20.0219 ug/L
RT: 7.935 min Scan# 2538
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:131 Resp: 81795

Ion	Ratio	Lower	Upper
131	100		
117	68.5	40.9	95.5
95	35.8	21.7	50.5

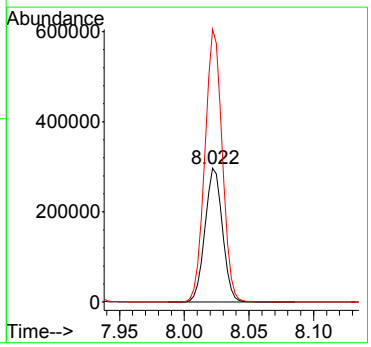


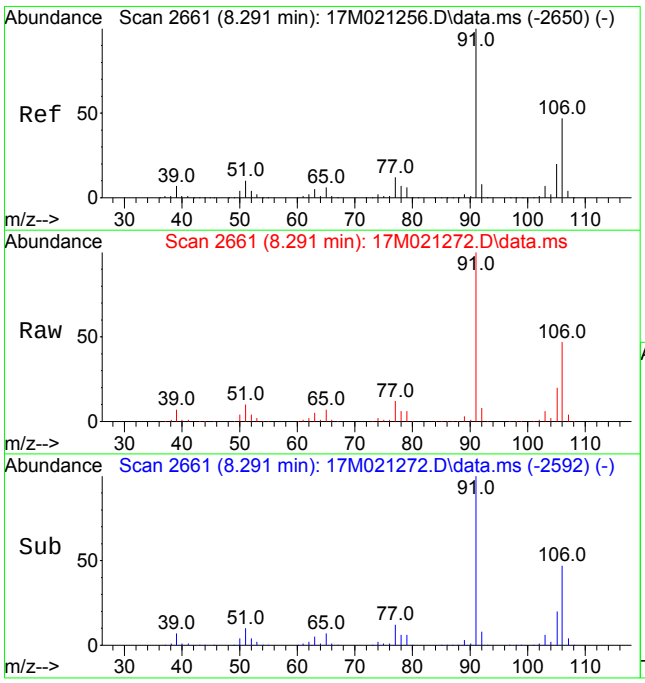


#59
m-,p-Xylene
Concen: 38.1582 ug/L
RT: 8.022 min Scan# 2568
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:106 Resp: 278108

Ion	Ratio	Lower	Upper
106	100		
91	202.6	121.7	283.9

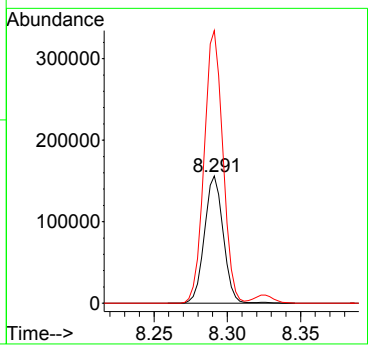


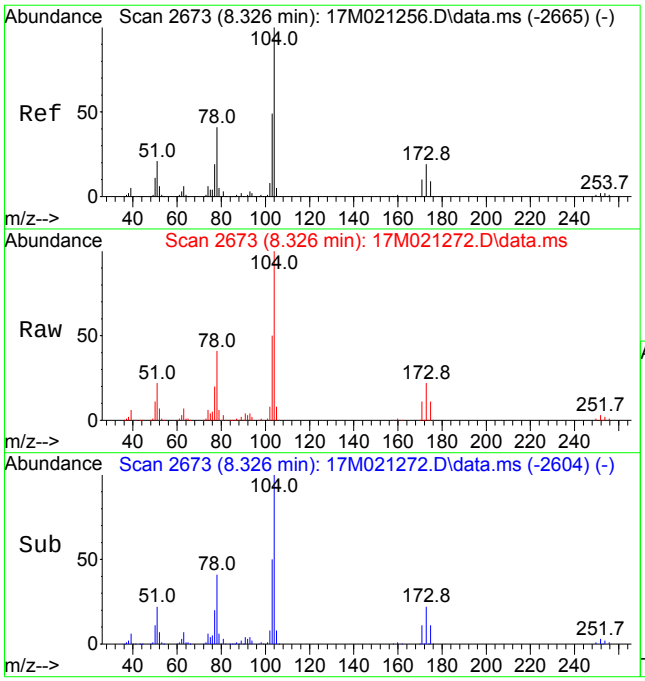


#60
o-Xylene
Concen: 19.4562 ug/L
RT: 8.291 min Scan# 2661
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:106 Resp: 139168

Ion	Ratio	Lower	Upper
106	100		
91	213.2	129.8	302.8

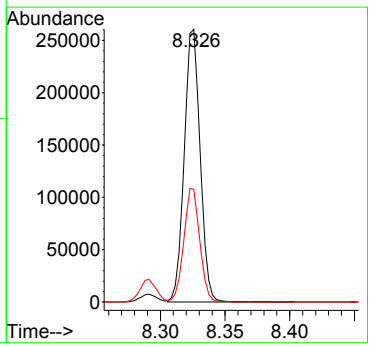


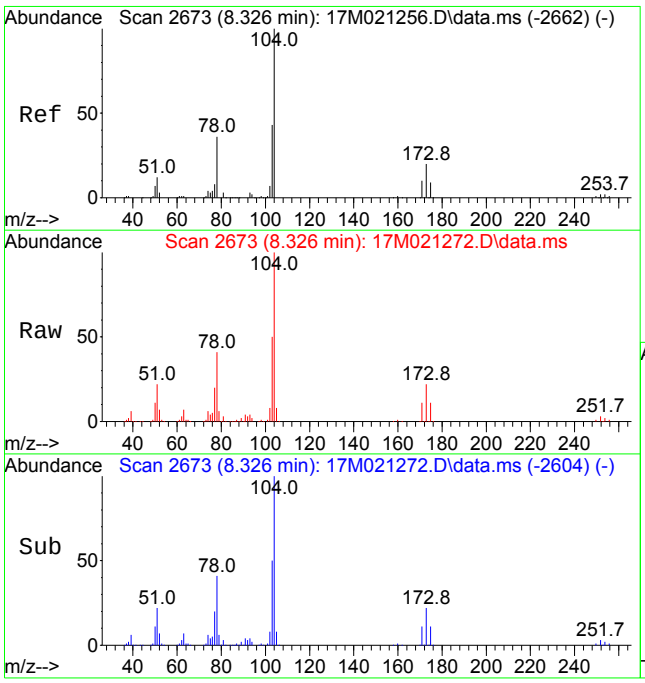


#61
Styrene
Concen: 19.7689 ug/L
RT: 8.326 min Scan# 2673
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:104 Resp: 225517

Ion	Ratio	Lower	Upper
104	100		
78	41.7	25.3	58.9

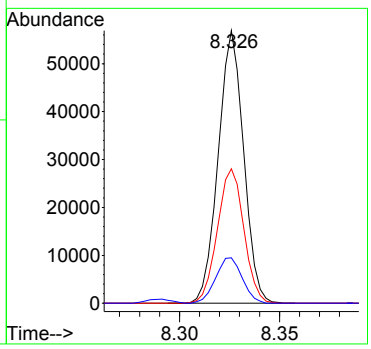


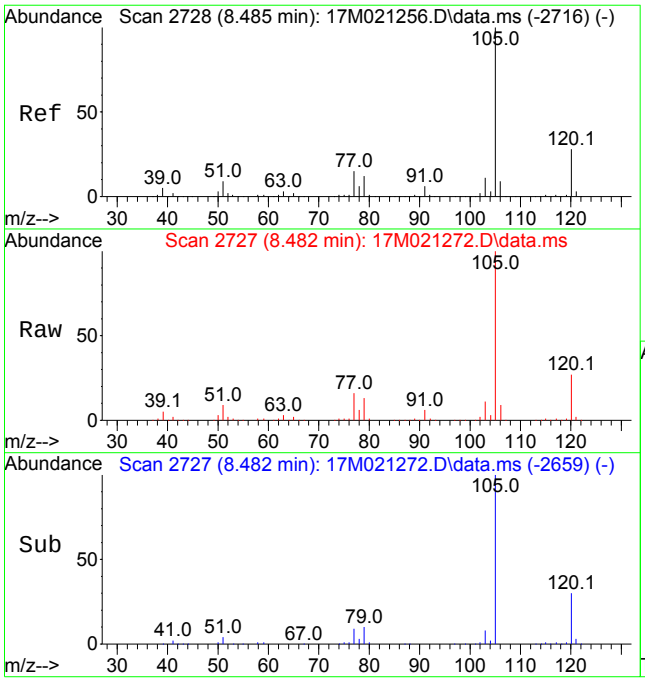


#62
Bromoform
Concen: 19.3068 ug/L
RT: 8.326 min Scan# 2673
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:173 Resp: 50306

Ion	Ratio	Lower	Upper
173	100		
171	51.3	30.8	72.0
93	17.4	10.6	24.8

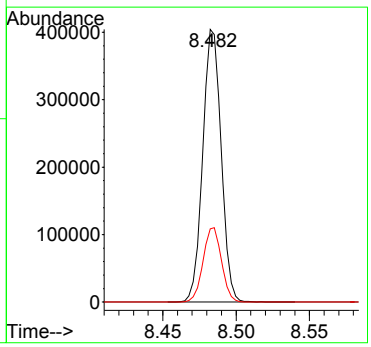


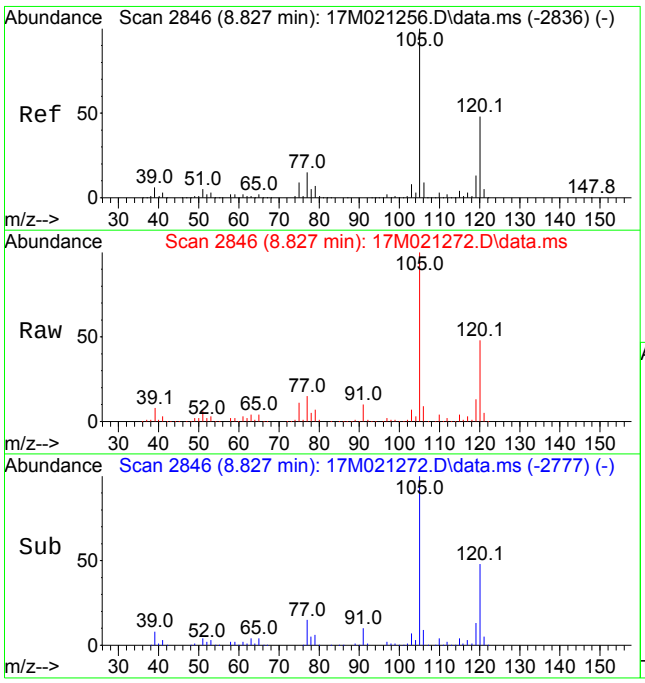


#63
Isopropylbenzene
Concen: 19.0633 ug/L
RT: 8.482 min Scan# 2727
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:105 Resp: 353244

Ion	Ratio	Lower	Upper
105	100		
120	27.2	16.1	37.5

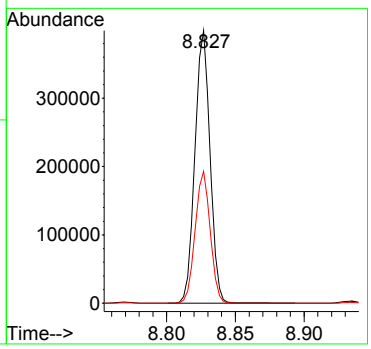


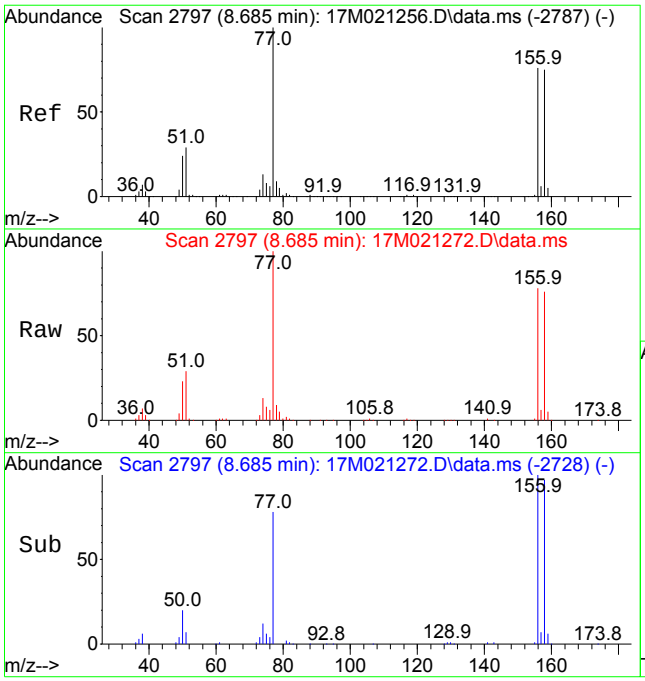


#65
1,3,5-Trimethylbenzene
Concen: 19.1472 ug/L
RT: 8.827 min Scan# 2846
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:105 Resp: 305200

Ion	Ratio	Lower	Upper
105	100		
120	48.2	38.7	58.1

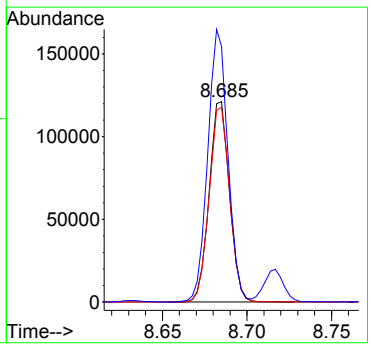


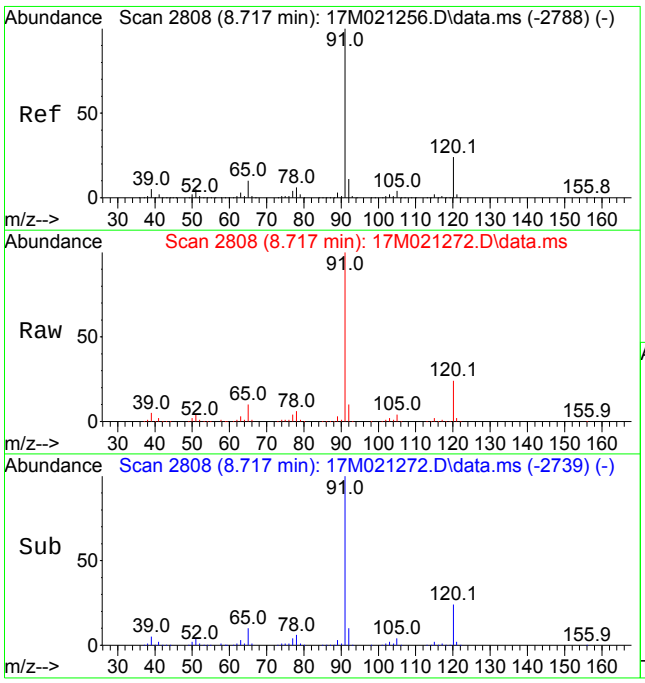


#67
Bromobenzene
Concen: 18.5193 ug/L
RT: 8.685 min Scan# 2797
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:156 Resp: 100939

Ion	Ratio	Lower	Upper
156	100		
158	97.9	78.4	117.6
77	135.2	108.0	162.0

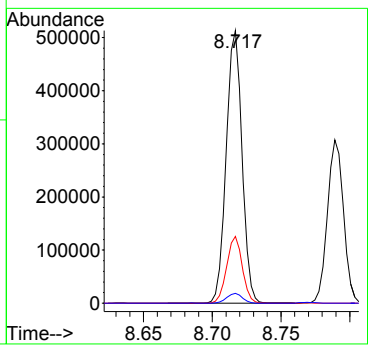


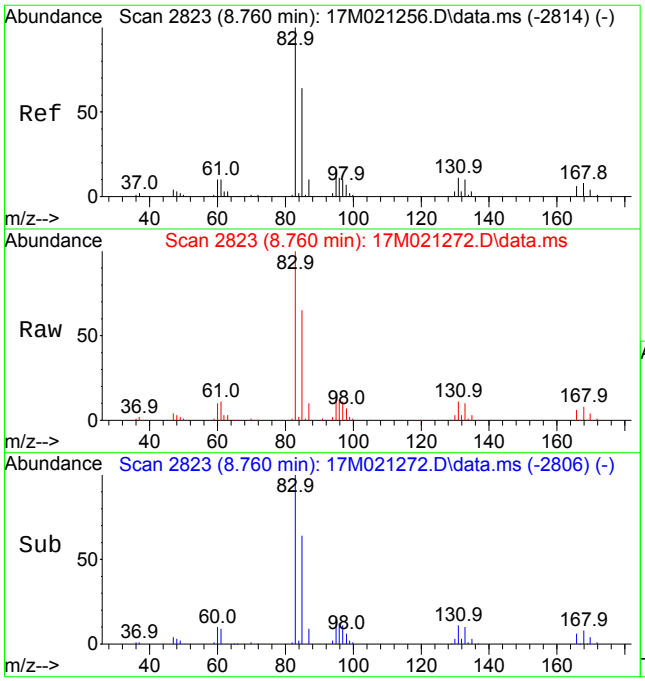


#68
n-Propylbenzene
Concen: 19.2529 ug/L
RT: 8.717 min Scan# 2808
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 91 Resp: 409244

Ion	Ratio	Lower	Upper
91	100		
120	24.1	14.3	33.5
105	3.6	2.1	4.9

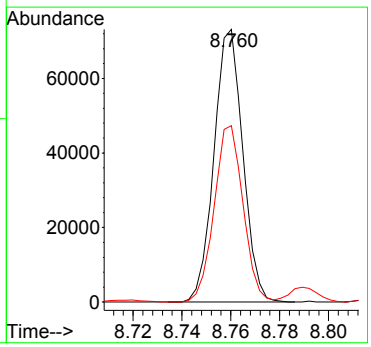


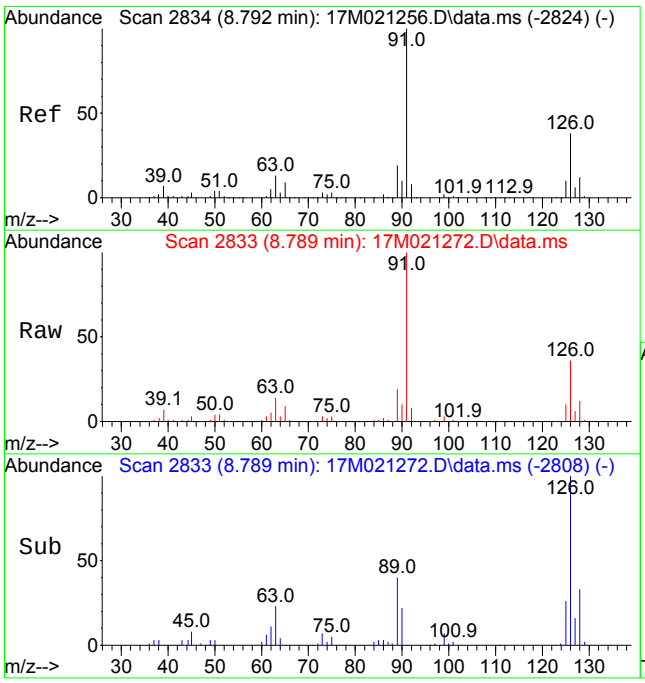


#69
1,1,2,2-Tetrachloroethane
Concen: 26.5718 ug/L
RT: 8.760 min Scan# 2823
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 83 Resp: 60063

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.8	77.6

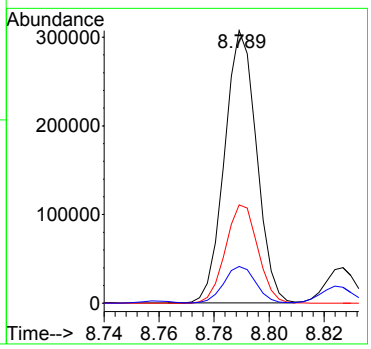


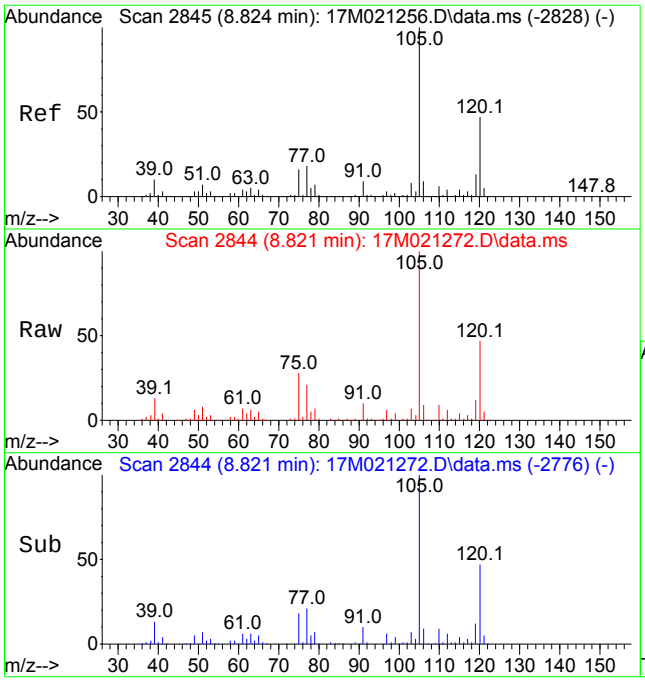


#70
2-Chlorotoluene
Concen: 18.9047 ug/L
RT: 8.789 min Scan# 2833
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 91 Resp: 247873

Ion	Ratio	Lower	Upper
91	100		
126	36.6	22.1	51.5
63	13.5	8.2	19.0

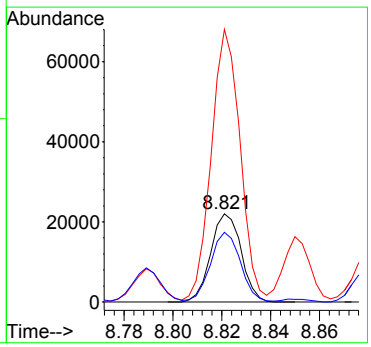


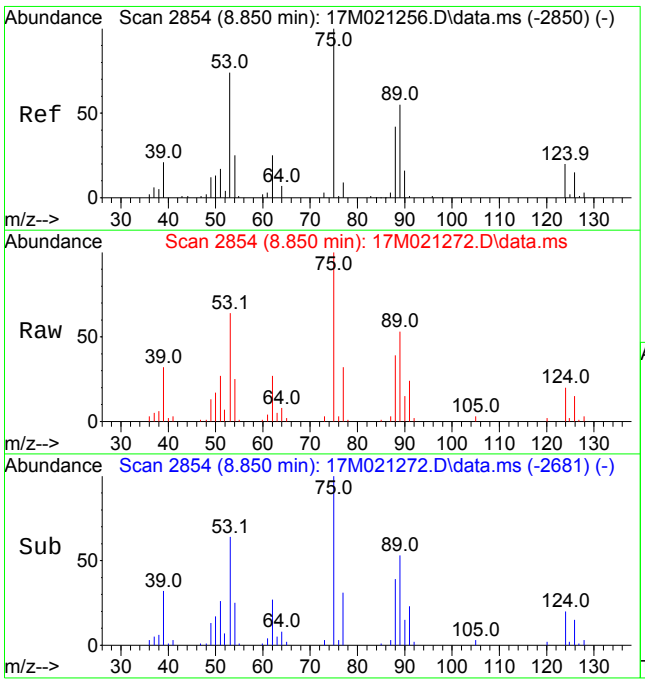


#71
1,2,3-Trichloropropane
Concen: 21.4035 ug/L
RT: 8.821 min Scan# 2844
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:110 Resp: 19018

Ion	Ratio	Lower	Upper
110	100		
75	294.4	239.0	358.6
61	74.4	63.0	94.4

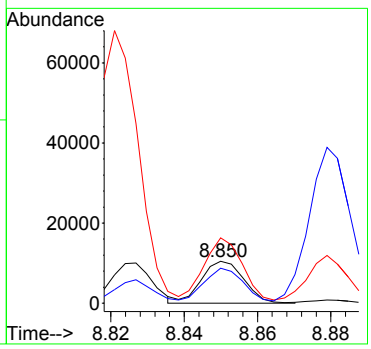


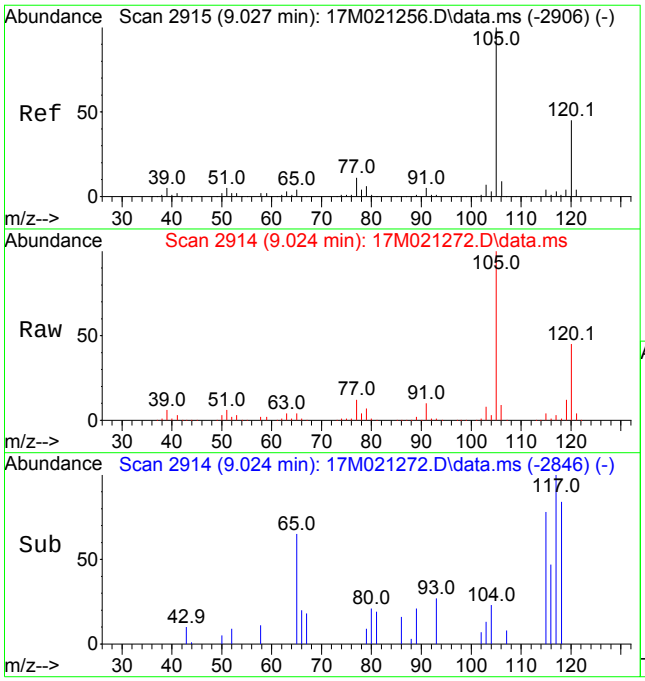


#72
trans-1,4-Dichloro-2-Butene
Concen: 19.5994 ug/L
RT: 8.850 min Scan# 2854
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 53 Resp: 8493

Ion	Ratio	Lower	Upper
53	100		
75	137.9	142.1	142.1#
89	81.2	62.3	93.5

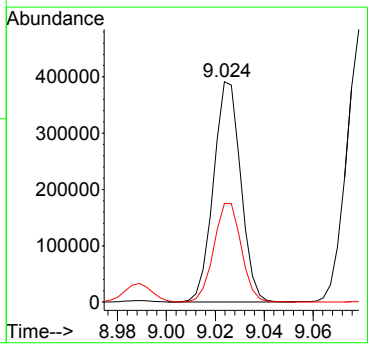


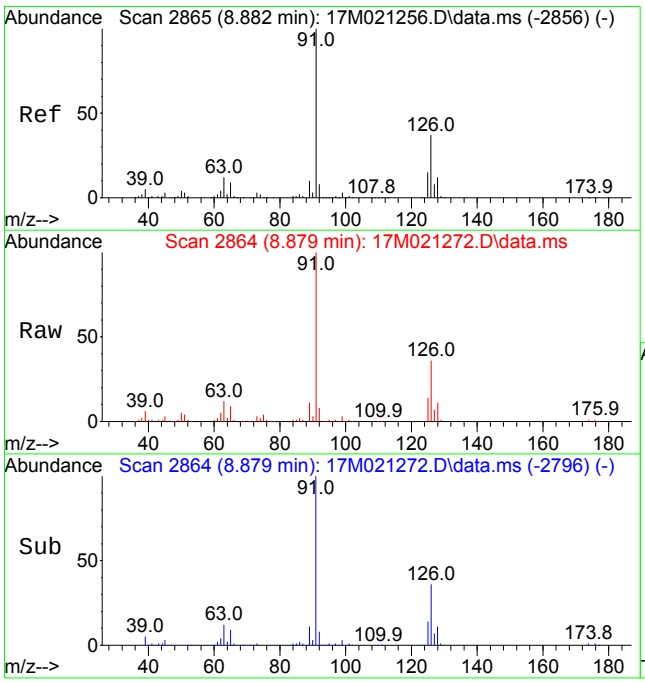


#73
1,2,4-Trimethylbenzene
Concen: 19.0467 ug/L
RT: 9.024 min Scan# 2914
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:105 Resp: 303814

Ion	Ratio	Lower	Upper
105	100		
120	45.1	36.6	54.8

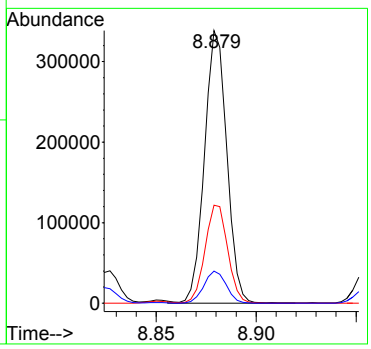


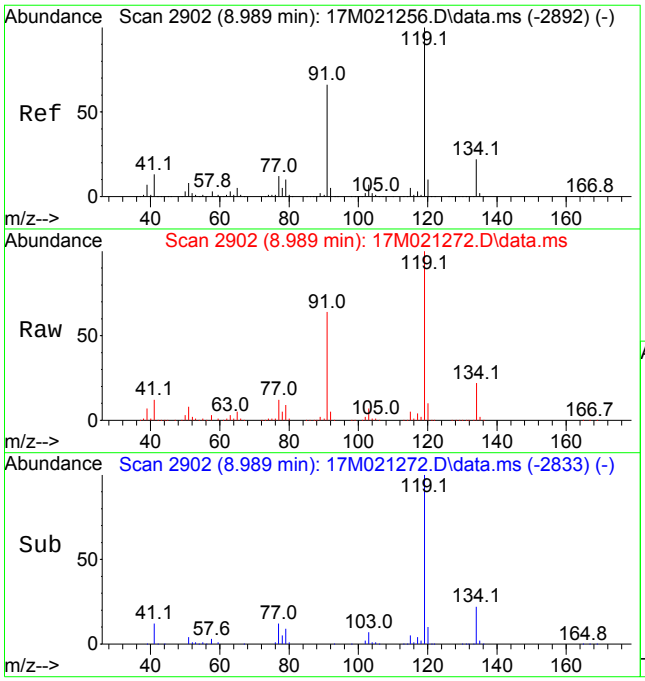


#74
4-Chlorotoluene
Concen: 19.3401 ug/L
RT: 8.879 min Scan# 2864
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 91 Resp: 262890

Ion	Ratio	Lower	Upper
91	100		
126	37.2	22.3	51.9
63	11.8	7.2	16.8

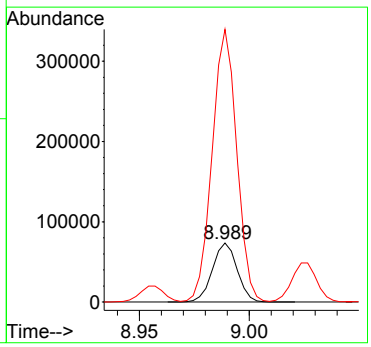


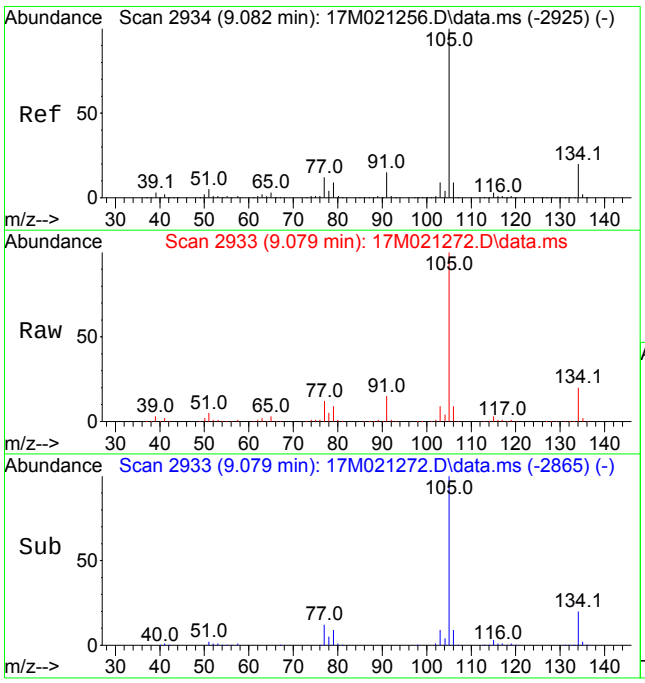


#75
tert-Butylbenzene
Concen: 19.1116 ug/L
RT: 8.989 min Scan# 2902
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:134 Resp: 57329

Ion	Ratio	Lower	Upper
134	100		
119	457.7	274.2	639.8

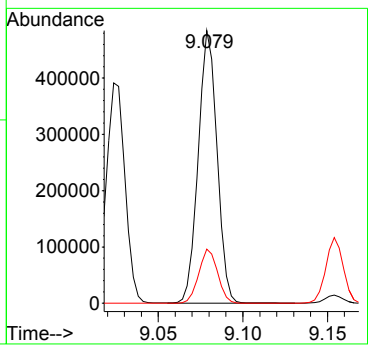


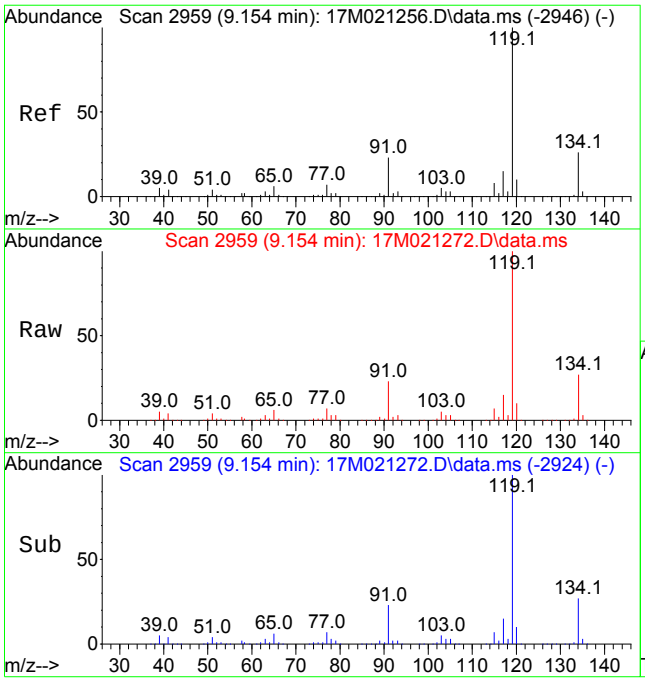


#76
sec-Butylbenzene
Concen: 18.8935 ug/L
RT: 9.079 min Scan# 2933
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:105 Resp: 374381

Ion	Ratio	Lower	Upper
105	100		
134	19.8	11.9	27.9

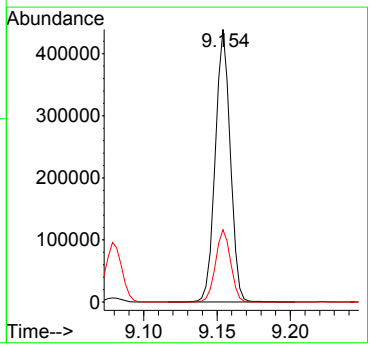


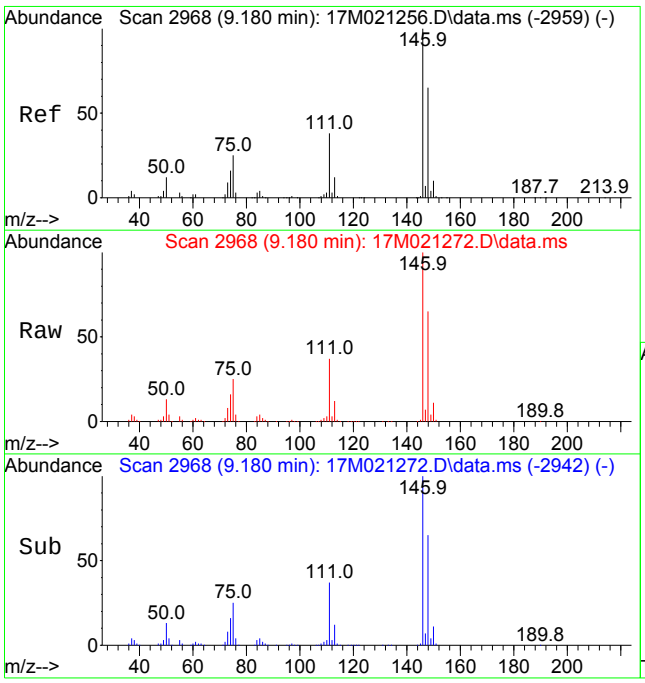


#77
p-Isopropyltoluene
Concen: 18.9484 ug/L
RT: 9.154 min Scan# 2959
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:119 Resp: 312407

Ion	Ratio	Lower	Upper
119	100		
134	26.7	16.0	37.4

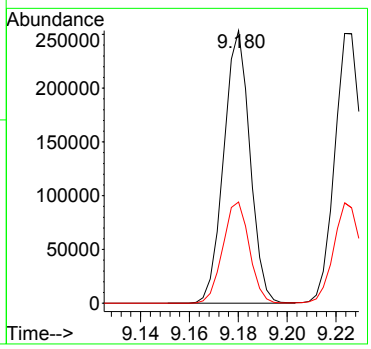


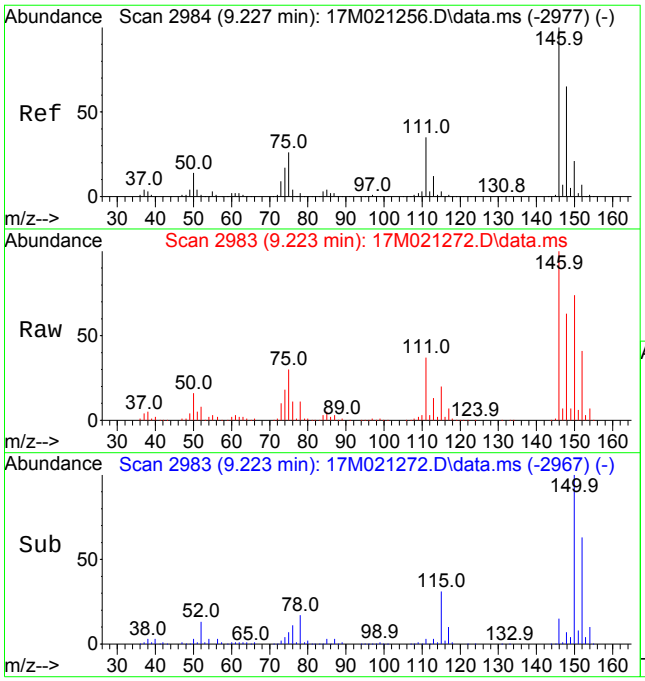


#78
1,3-Dichlorobenzene
Concen: 19.1230 ug/L
RT: 9.180 min Scan# 2968
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:146 Resp: 189521

Ion	Ratio	Lower	Upper
146	100		
111	37.6	22.4	52.2

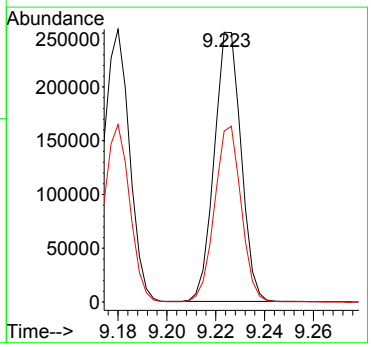


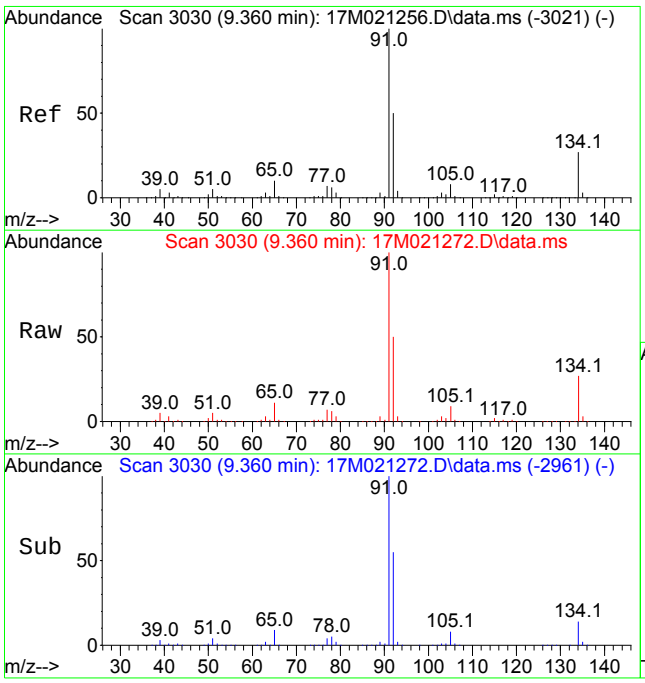


#79
1,4-Dichlorobenzene
Concen: 18.6526 ug/L
RT: 9.223 min Scan# 2983
Delta R.T. -0.004 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:146 Resp: 190760

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.6	77.4

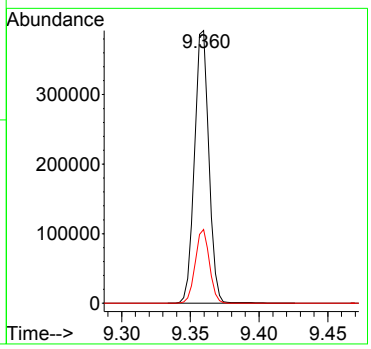


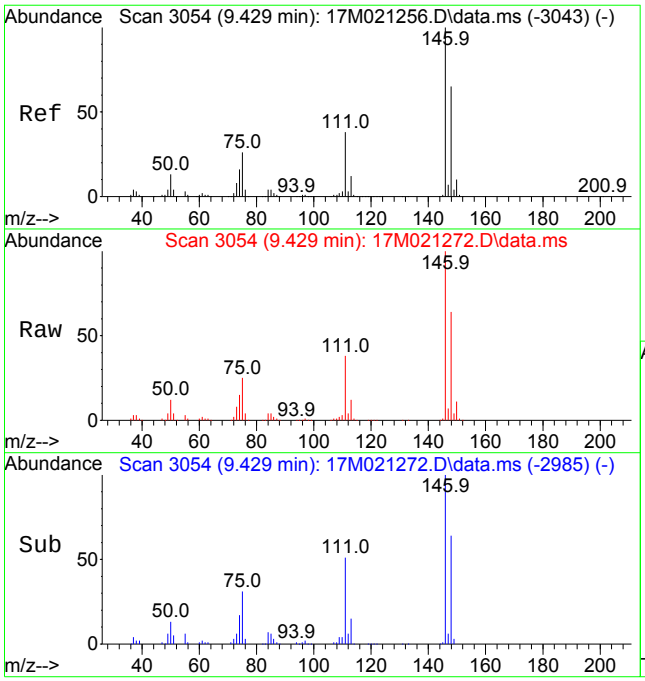


#80
n-Butylbenzene
Concen: 18.6043 ug/L
RT: 9.360 min Scan# 3030
Delta R.T. -0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 91 Resp: 285895

Ion	Ratio	Lower	Upper
91	100		
134	26.6	16.1	37.5

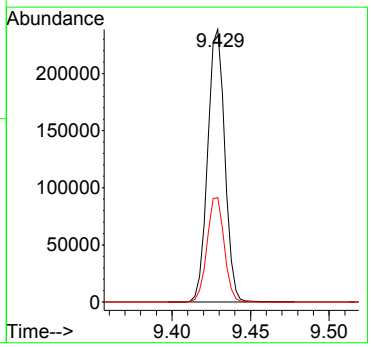


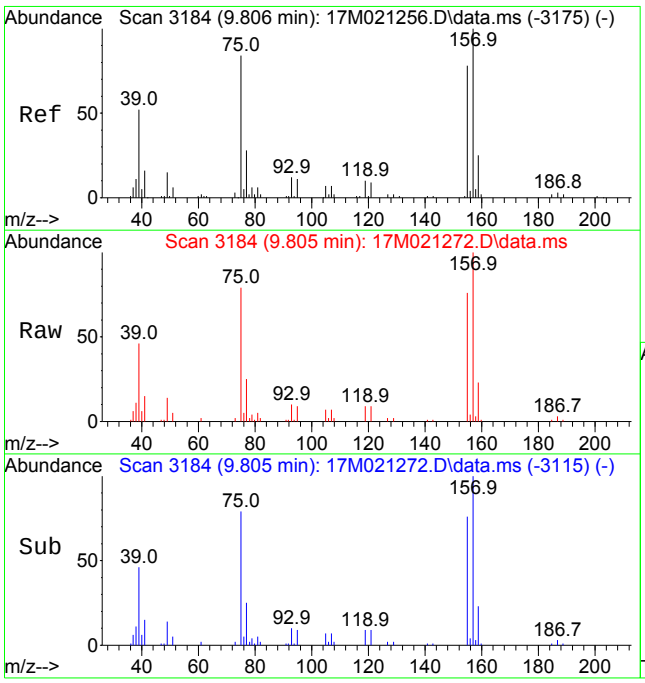


#81
1,2-Dichlorobenzene
Concen: 19.4403 ug/L
RT: 9.429 min Scan# 3054
Delta R.T. 0.000 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:146 Resp: 180607

Ion	Ratio	Lower	Upper
146	100		
111	38.3	23.1	53.9

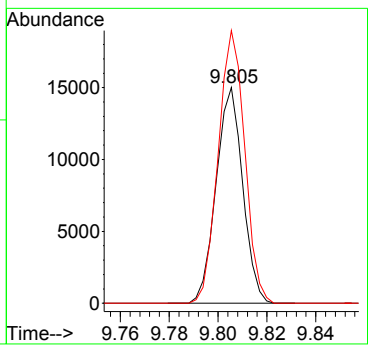


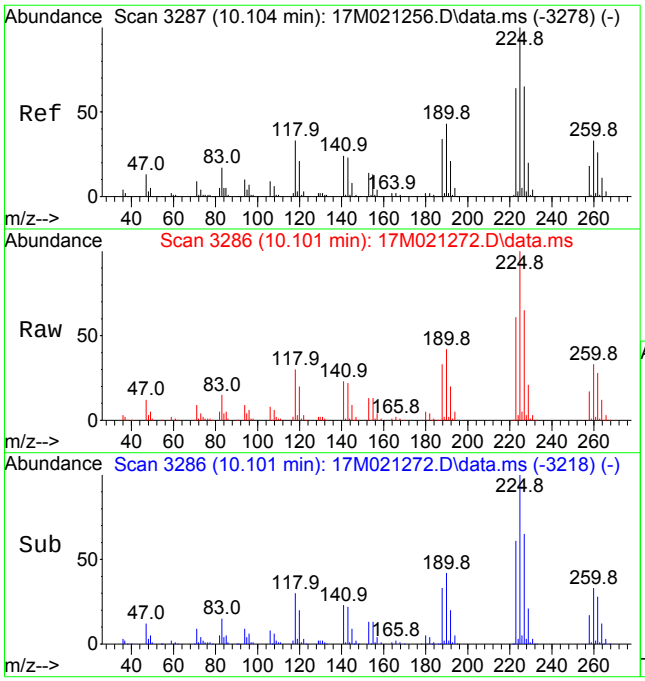


#82
1,2-Dibromo-3-Chloropropane
Concen: 23.7539 ug/L
RT: 9.805 min Scan# 3184
Delta R.T. -0.001 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion: 75 Resp: 11327

Ion	Ratio	Lower	Upper
75	100		
157	126.3	74.8	174.4

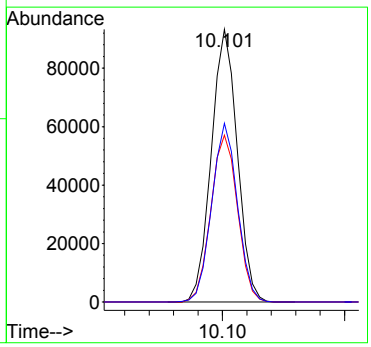


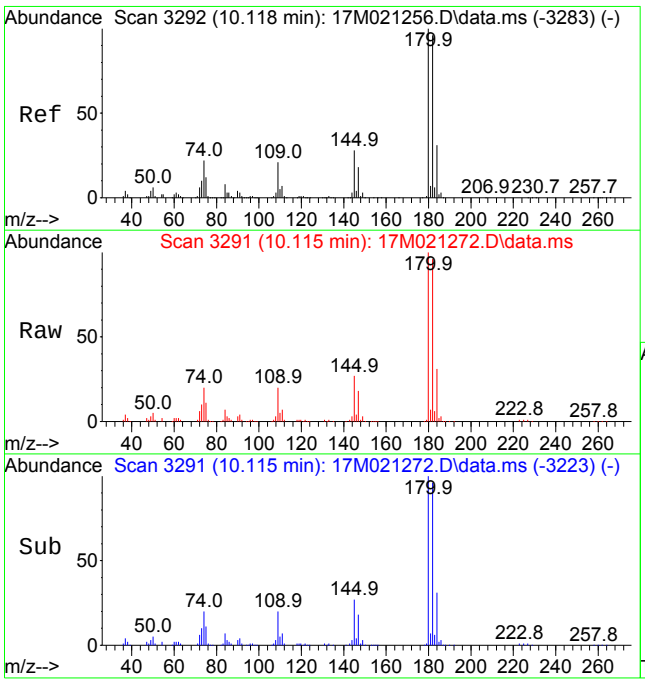


#83
Hexachlorobutadiene
Concen: 19.0750 ug/L
RT: 10.101 min Scan# 3286
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:225 Resp: 68865

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.1	75.1
227	64.8	51.8	77.8

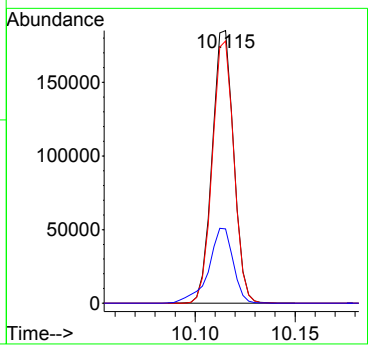


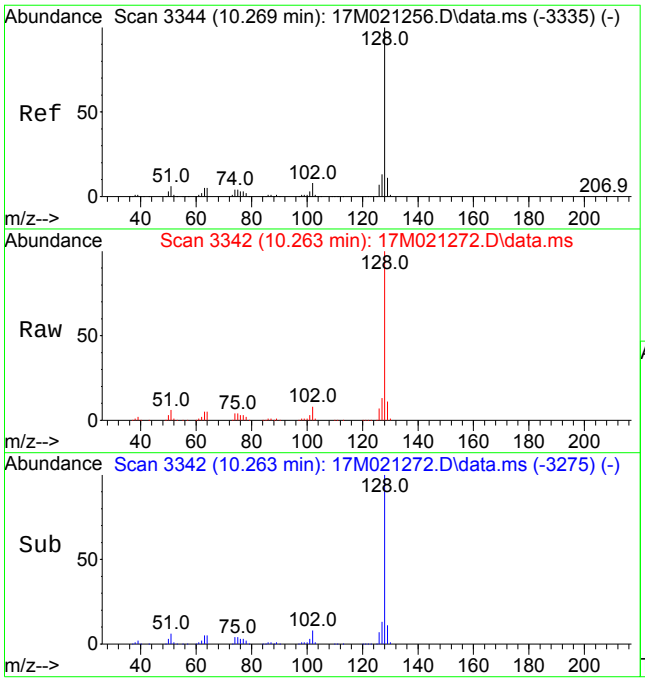


#84
1,2,4-Trichlorobenzene
Concen: 20.1528 ug/L
RT: 10.115 min Scan# 3291
Delta R.T. -0.003 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:180 Resp: 138672

Ion	Ratio	Lower	Upper
180	100		
182	96.0	57.5	134.1
145	31.4	19.4	45.2

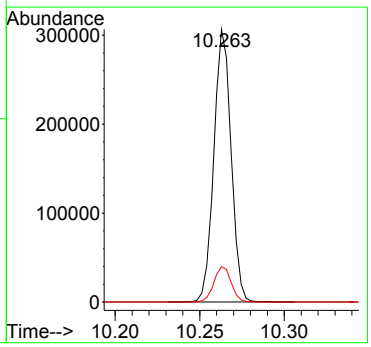


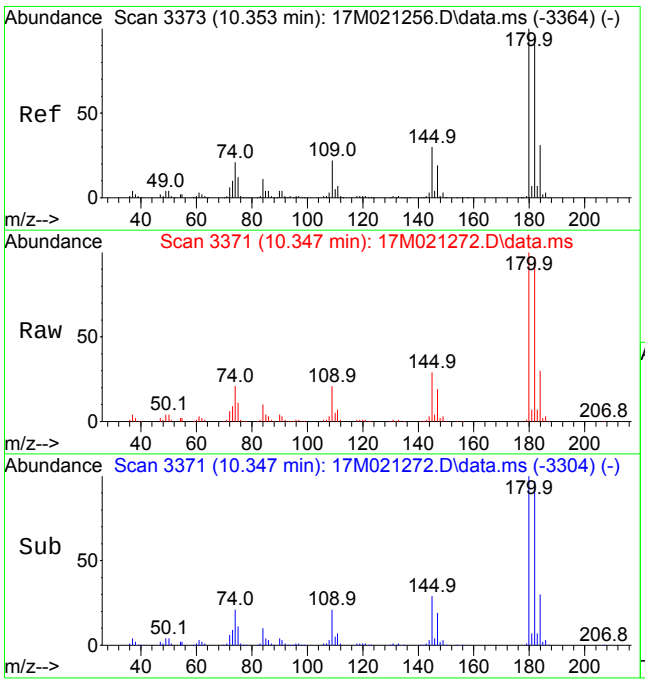


#85
Naphthalene
Concen: 20.5903 ug/L
RT: 10.263 min Scan# 3342
Delta R.T. -0.006 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:128 Resp: 216219

Ion	Ratio	Lower	Upper
128	100		
127	13.0	7.8	18.2

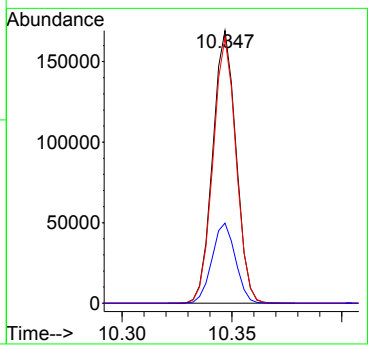




#86
1,2,3-Trichlorobenzene
Concen: 20.6953 ug/L
RT: 10.347 min Scan# 3371
Delta R.T. -0.006 min
Lab File: 17M021272.D
Acq: 20 May 2016 21:27

Tgt Ion:180 Resp: 124871

Ion	Ratio	Lower	Upper
180	100		
182	96.2	57.4	134.0
145	29.6	17.8	41.4



Data File : D:\MassHunter\GCMS\1\data\052016\17M021273.D Vial: 19
Acq On : 20 May 2016 21:47 Operator: ADC
Sample : L16050763-03 A MSD 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:41 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.982	96	371349	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.868	117	281539	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	156163	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.986	111	103059	26.2033 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.813%		
34) 1,2-Dichloroethane-d4	4.643	65	95383	26.2281 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.912%		
47) Toluene-d8	6.577	98	387127	25.7479 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.992%		
66) p-Bromofluorobenzene	8.633	95	141375	26.1837 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.735%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.998	85	60287	11.1606 ug/L	99
3) Chloromethane	1.105	50	81489	16.8636 ug/L	100
4) Vinyl Chloride	1.148	62	75435	15.5976 ug/L	100
5) 1,3-Butadiene	1.157	54	4935	1.2658 ug/L	97
6) Bromomethane	1.322	94	48248	15.7622 ug/L	99
7) Chloroethane	1.392	64	31458	14.5070 ug/L	94
8) Trichlorofluoromethane	1.467	101	92130	14.3999 ug/L	98
9) Diethyl ether	1.670	59	1491	0.6010 ug/L	89
10) 1,1-Dichloroethene	1.782	61	88303	14.5887 ug/L	100
11) Carbon Disulfide	1.797	76	206932	18.0374 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.814	101	53855	14.4687 ug/L	100
13) Iodomethane	1.875	142	79526	14.8685 ug/L	100
14) Acrolein	2.017	56	195	0.4436 ug/L #	13
15) Methylene Chloride	2.188	84	70653	17.4440 ug/L	100
16) Acetone	2.234	43	15367	26.1636 ug/L	98
17) trans-1,2-Dichloroethene	2.307	96	65971	16.7149 ug/L	100
18) Methyl acetate	2.333	43	34661	18.2626 ug/L #	90
19) Methyl Tert Butyl Ether	2.408	73	179534	21.0191 ug/L #	10
20) 1,1-Dichloroethane	2.833	63	123851	16.7467 ug/L	99
21) Acrylonitrile	2.888	53	18152	22.4934 ug/L	99
23) cis-1,2-Dichloroethene	3.395	96	81353	18.4856 ug/L	98
24) 2,2-Dichloropropane	3.514	77	91717	15.6529 ug/L	100
25) Cyclohexane	3.609	56	102530	16.3588 ug/L #	69
26) Bromochloromethane	3.624	130	49221	18.3862 ug/L	100
27) Chloroform	3.748	83	129788	17.6669 ug/L	100
28) Carbon Tetrachloride	3.884	117	90596	16.2950 ug/L	99
30) 1,1,1-Trichloroethane	3.980	97	109338	16.6689 ug/L	100
31) 1,1-Dichloropropene	4.157	75	85749	15.9904 ug/L	100
32) 2-Butanone	4.180	43	21385	23.0054 ug/L	90
33) Benzene	4.472	78	285623	17.5674 ug/L	100
35) 1,2-Dichloroethane	4.724	62	87905	19.0931 ug/L	100
36) Methylcyclohexane	5.138	83	105972	16.3764 ug/L	99
37) Trichloroethene	5.170	130	89159	16.2207 ug/L	99
38) Dibromomethane	5.596	93	40817	18.4407 ug/L	100
39) 1,2-Dichloropropane	5.706	63	79914	18.6557 ug/L	100
40) Bromodichloromethane	5.798	83	97391	18.7280 ug/L	100
42) 2-Chloroethyl Vinyl Ether	6.412	63	1358	1.4809 ug/L	100
43) cis-1,3-Dichloropropene	6.409	75	117466	20.6003 ug/L	100
44) 4-Methyl-2-Pentanone	7.003	58	18768	22.8426 ug/L	97
45) trans-1,3-Dichloropropene	7.017	75	90730	19.6076 ug/L	100
48) Toluene	6.623	91	321603	17.9646 ug/L	99
49) Tetrachloroethene	6.956	166	85261	16.3771 ug/L	99
50) 1,1,2-Trichloroethane	7.148	97	59044	19.9348 ug/L	99
51) Dibromochloromethane	7.289	129	77502	18.9473 ug/L	99
52) 1,3-Dichloropropane	7.373	76	98598	20.6988 ug/L	99
53) 1,2-Dibromoethane	7.463	107	59270	20.0022 ug/L	100

Data File : D:\MassHunter\GCMS\1\data\052016\17M021273.D Vial: 19
Acq On : 20 May 2016 21:47 Operator: ADC
Sample : L16050763-03 A MSD 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:41 2016

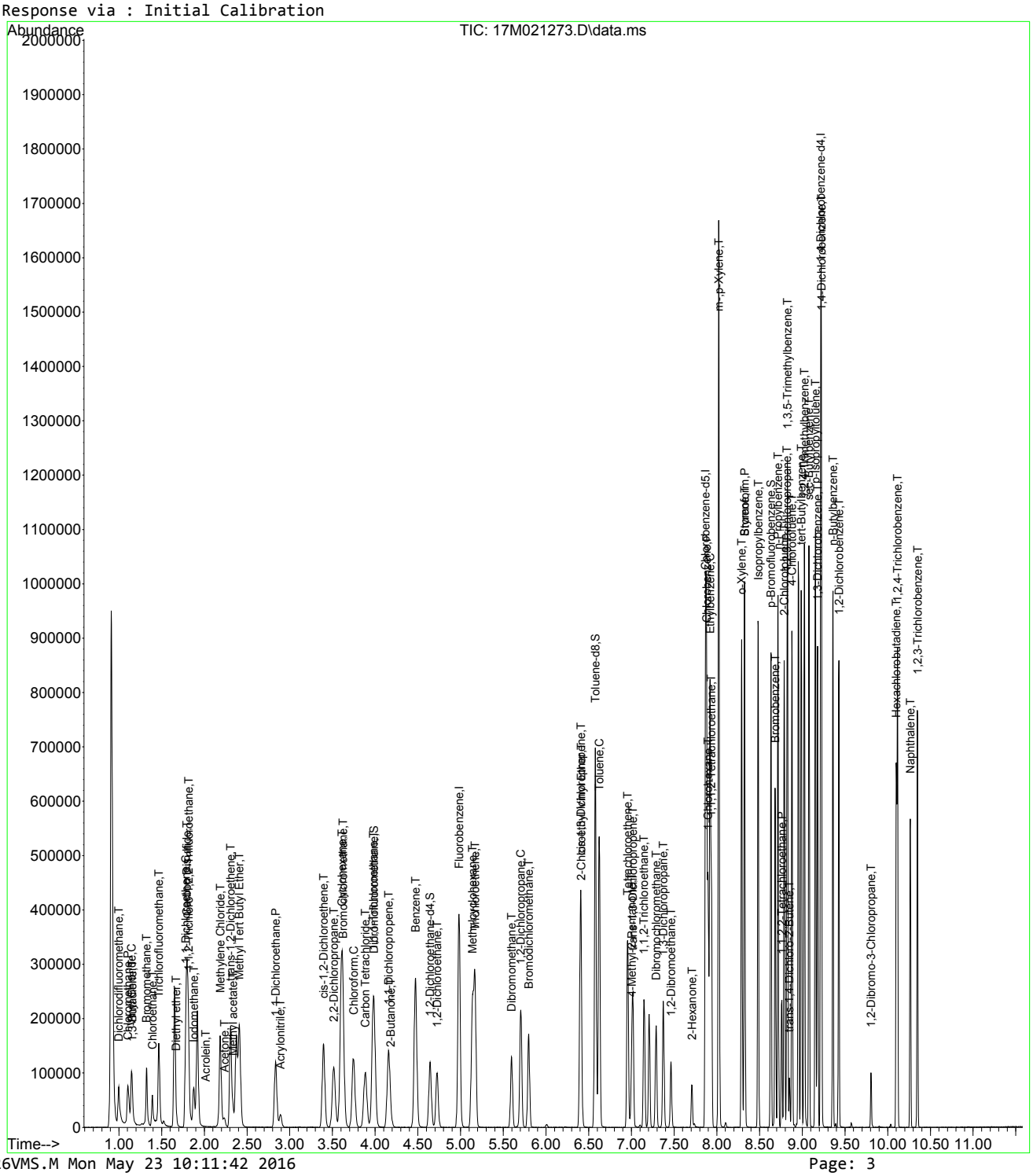
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

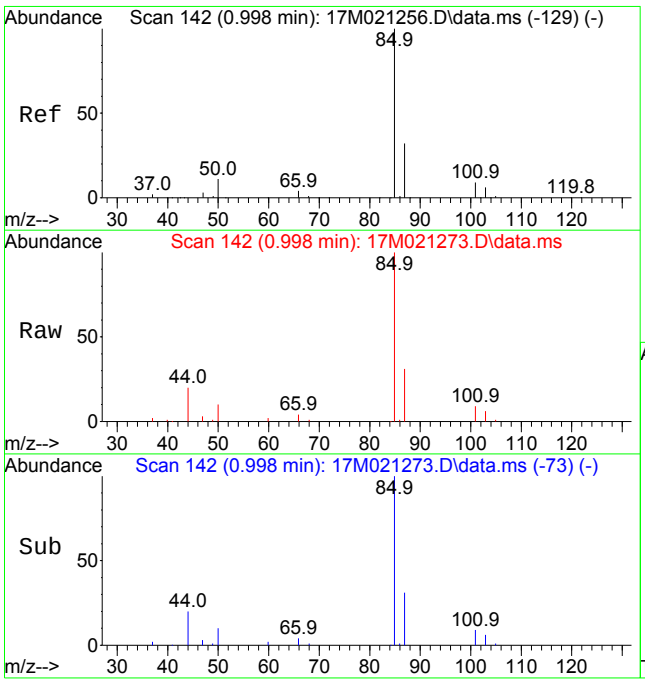
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 2-Hexanone	7.709	43	33965	22.9683	ug/L		99
55) Chlorobenzene	7.880	112	217766	18.5123	ug/L		100
56) 1-Chlorohexane	7.897	69	17404	17.8707	ug/L		89
57) Ethylbenzene	7.921	106	109771	17.7423	ug/L		99
58) 1,1,1,2-Tetrachloroethane	7.935	131	79783	19.4294	ug/L		99
59) m-,p-Xylene	8.022	106	270191	36.8822	ug/L		100
60) o-Xylene	8.291	106	137380	19.1080	ug/L		97
61) Styrene	8.326	104	221059	19.2789	ug/L		99
62) Bromoform	8.326	173	49281	18.8272	ug/L		99
63) Isopropylbenzene	8.485	105	342781	18.4040	ug/L		100
65) 1,3,5-Trimethylbenzene	8.827	105	298591	18.7309	ug/L		100
67) Bromobenzene	8.682	156	99632	18.2778	ug/L		100
68) n-Propylbenzene	8.717	91	399962	18.8145	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.760	83	59397	26.2956	ug/L		99
70) 2-Chlorotoluene	8.789	91	243326	18.5563	ug/L		100
71) 1,2,3-Trichloropropane	8.821	110	18683	21.0246	ug/L		98
72) trans-1,4-Dichloro-2-B...	8.850	53	8454	19.5124	ug/L	#	95
73) 1,2,4-Trimethylbenzene	9.024	105	296592	18.5923	ug/L		100
74) 4-Chlorotoluene	8.879	91	259313	19.0752	ug/L		100
75) tert-Butylbenzene	8.989	134	55179	18.3932	ug/L		97
76) sec-Butylbenzene	9.079	105	363159	18.3255	ug/L		100
77) p-Isopropyltoluene	9.154	119	308283	18.6966	ug/L		99
78) 1,3-Dichlorobenzene	9.180	146	186387	18.8051	ug/L		100
79) 1,4-Dichlorobenzene	9.223	146	187391	18.3215	ug/L		100
80) n-Butylbenzene	9.360	91	278477	18.1199	ug/L		99
81) 1,2-Dichlorobenzene	9.429	146	177002	19.0505	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.805	75	11375	23.8524	ug/L		98
83) Hexachlorobutadiene	10.101	225	67381	18.6623	ug/L		98
84) 1,2,4-Trichlorobenzene	10.115	180	137228	19.9412	ug/L		99
85) Naphthalene	10.266	128	214315	20.4072	ug/L		100
86) 1,2,3-Trichlorobenzene	10.350	180	124102	20.5660	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021273.D Vial: 19
Acq On : 20 May 2016 21:47 Operator: ADC
Sample : L16050763-03 A MSD 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:41 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

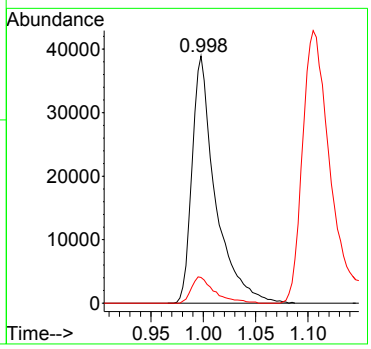


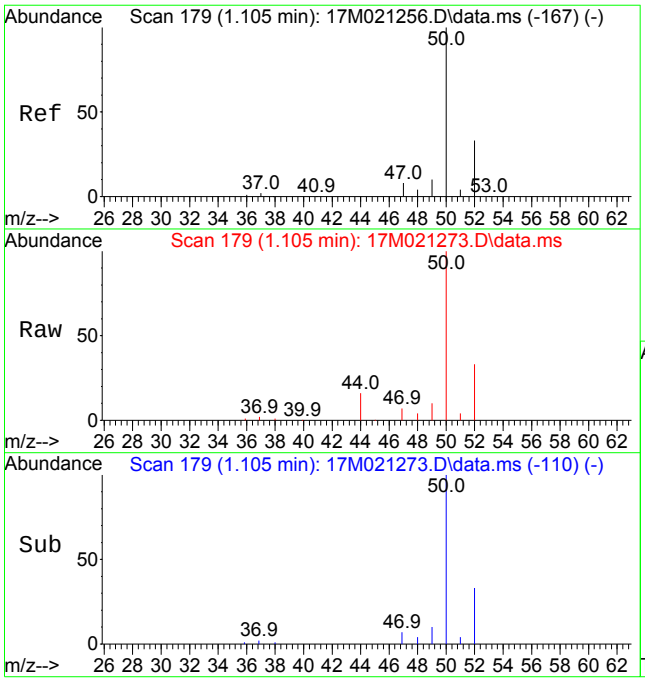


#2
Dichlorodifluoromethane
Concen: 11.1606 ug/L
RT: 0.998 min Scan# 142
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 85 Resp: 60287

Ion	Ratio	Lower	Upper
85	100		
50	10.6	6.5	15.3

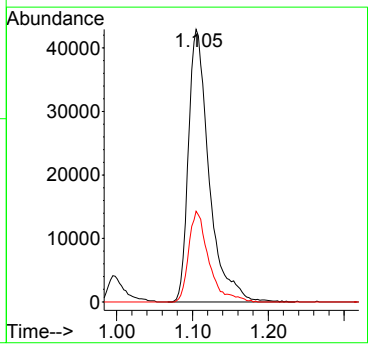


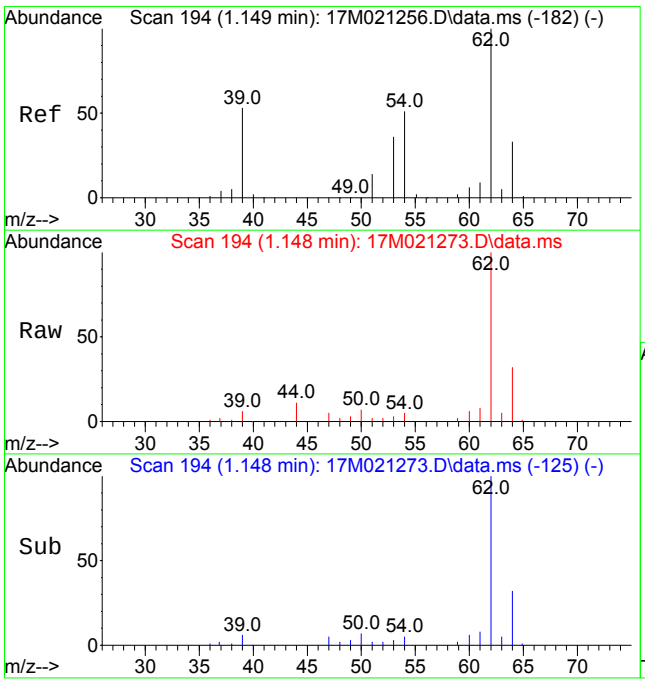


#3
Chloromethane
Concen: 16.8636 ug/L
RT: 1.105 min Scan# 179
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 50 Resp: 81489

Ion	Ratio	Lower	Upper
50	100		
52	32.4	19.4	45.4

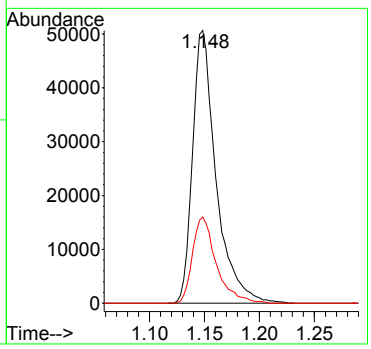


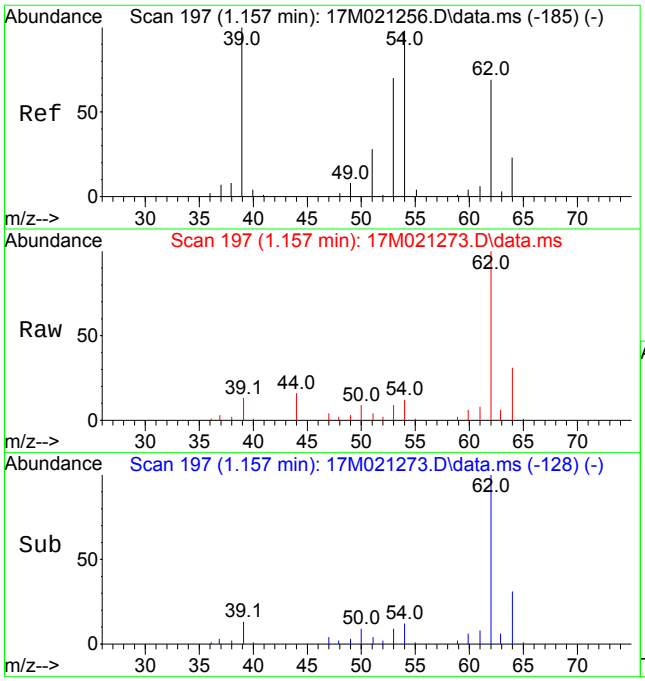


#4
Vinyl Chloride
Concen: 15.5976 ug/L
RT: 1.148 min Scan# 194
Delta R.T. -0.001 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 62 Resp: 75435

Ion	Ratio	Lower	Upper
62	100		
64	32.0	19.2	44.8

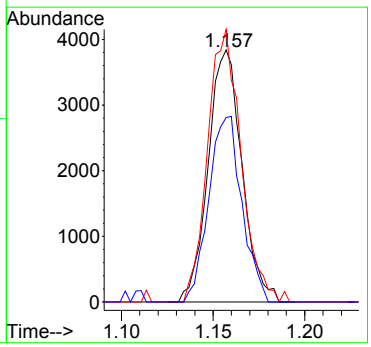


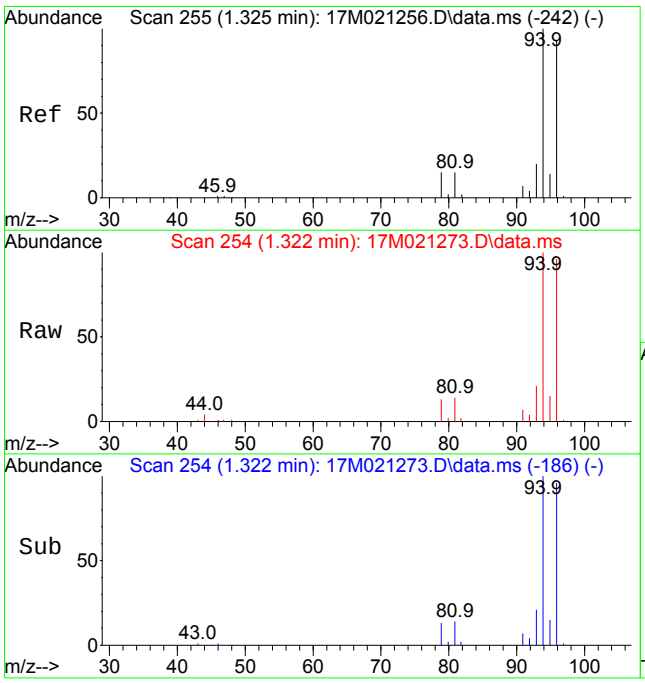


#5
1,3-Butadiene
Concen: 1.2658 ug/L
RT: 1.157 min Scan# 197
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 54 Resp: 4935

Ion	Ratio	Lower	Upper
54	100		
39	107.0	61.6	143.8
53	72.0	42.7	99.7

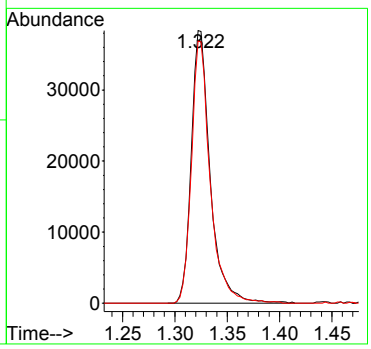


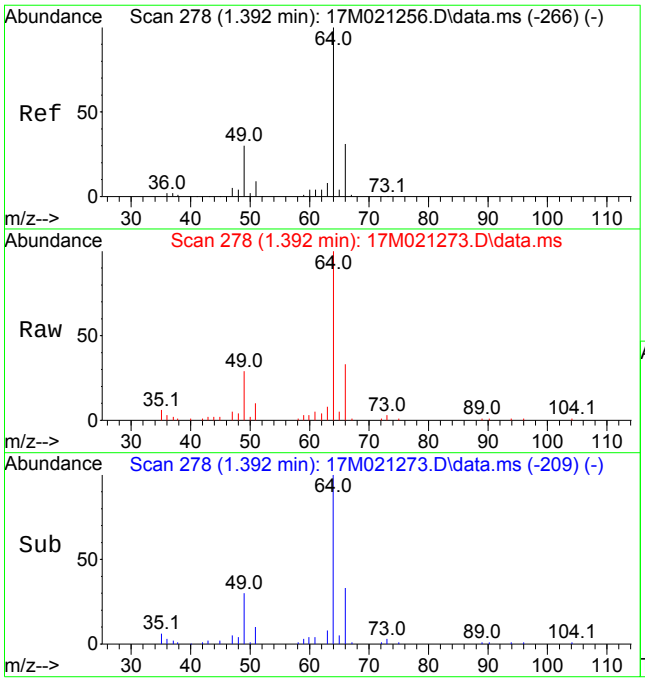


#6
Bromomethane
Concen: 15.7622 ug/L
RT: 1.322 min Scan# 254
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 94 Resp: 48248

Ion	Ratio	Lower	Upper
94	100		
96	95.3	56.6	132.0

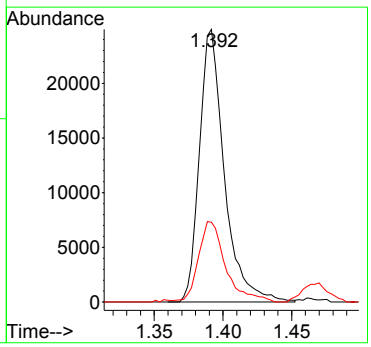


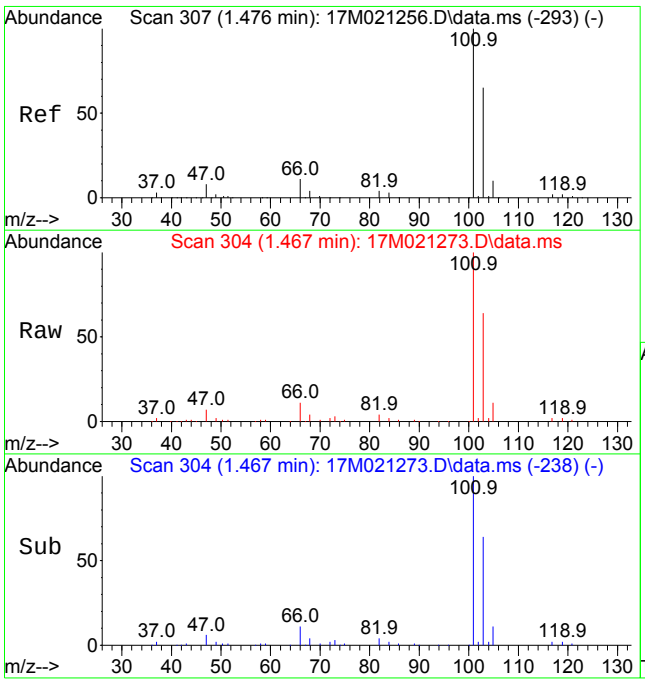


#7
Chloroethane
Concen: 14.5070 ug/L
RT: 1.392 min Scan# 278
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 64 Resp: 31458

Ion	Ratio	Lower	Upper
64	100		
49	32.5	17.6	41.0

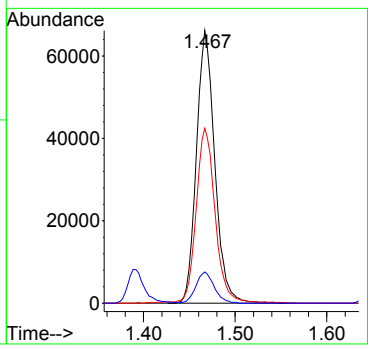


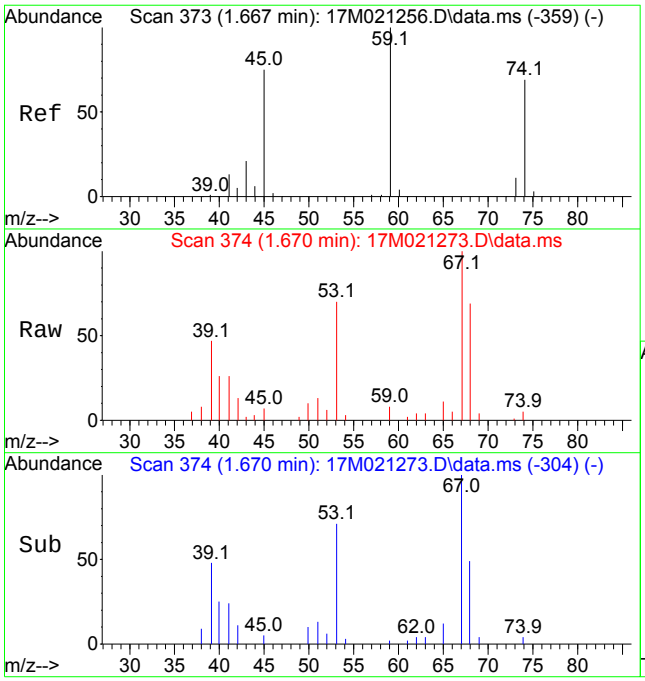


#8
Trichlorofluoromethane
Concen: 14.3999 ug/L
RT: 1.467 min Scan# 304
Delta R.T. -0.009 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:101 Resp: 92130

Ion	Ratio	Lower	Upper
101	100		
103	67.0	39.0	91.0
66	11.5	7.0	16.2

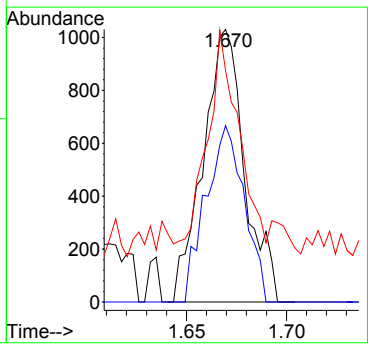


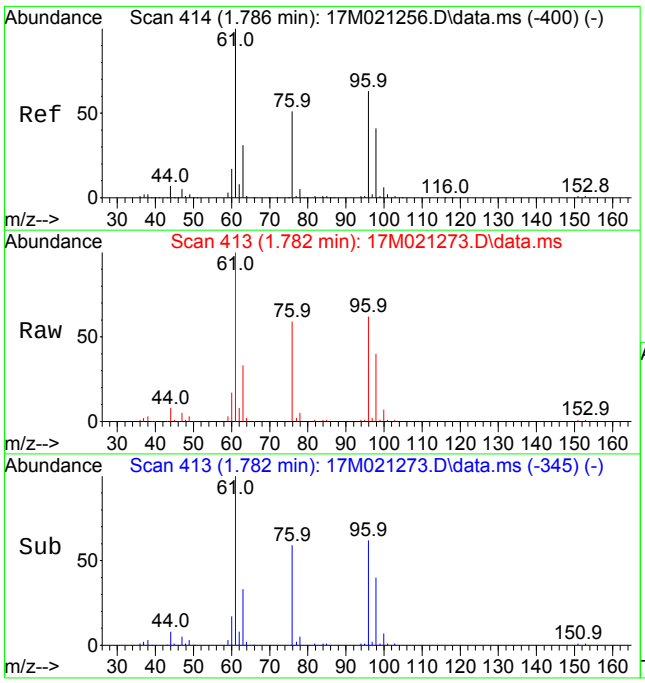


#9
Diethyl ether
Concen: 0.6010 ug/L
RT: 1.670 min Scan# 374
Delta R.T. 0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 59 Resp: 1491

Ion	Ratio	Lower	Upper
59	100		
45	68.7	45.8	107.0
74	59.7	42.4	98.8

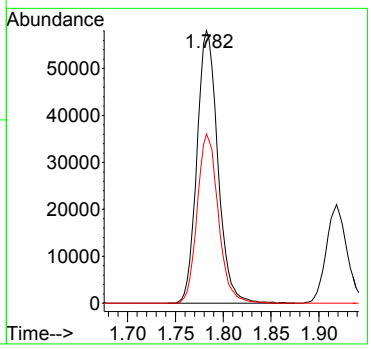


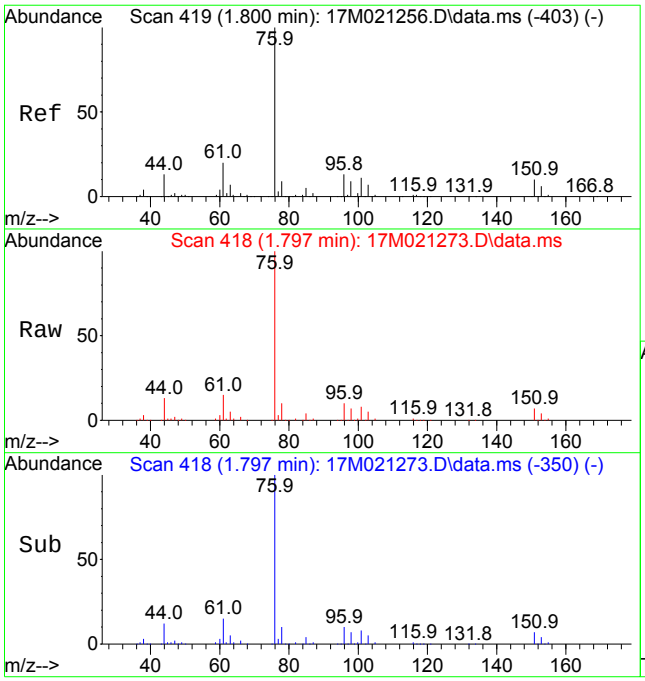


#10
1,1-Dichloroethene
Concen: 14.5887 ug/L
RT: 1.782 min Scan# 413
Delta R.T. -0.004 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 61 Resp: 88303

Ion	Ratio	Lower	Upper
61	100		
96	62.5	50.2	75.4

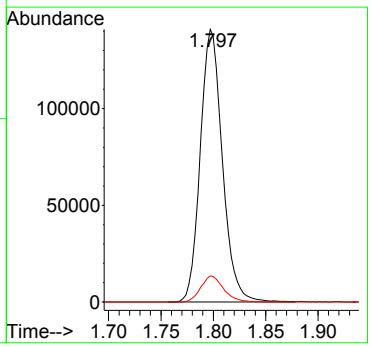


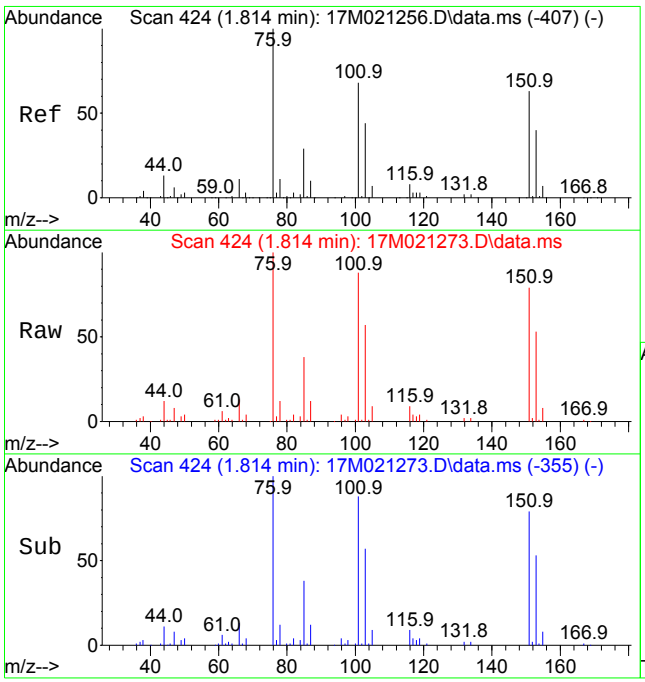


#11
Carbon Disulfide
Concen: 18.0374 ug/L
RT: 1.797 min Scan# 418
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 76 Resp: 206932

Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.9	11.9

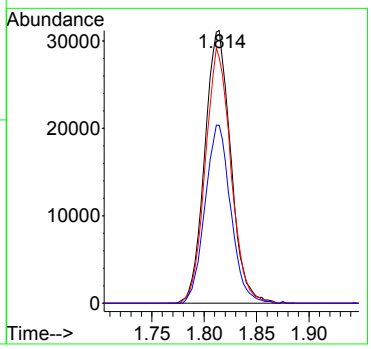


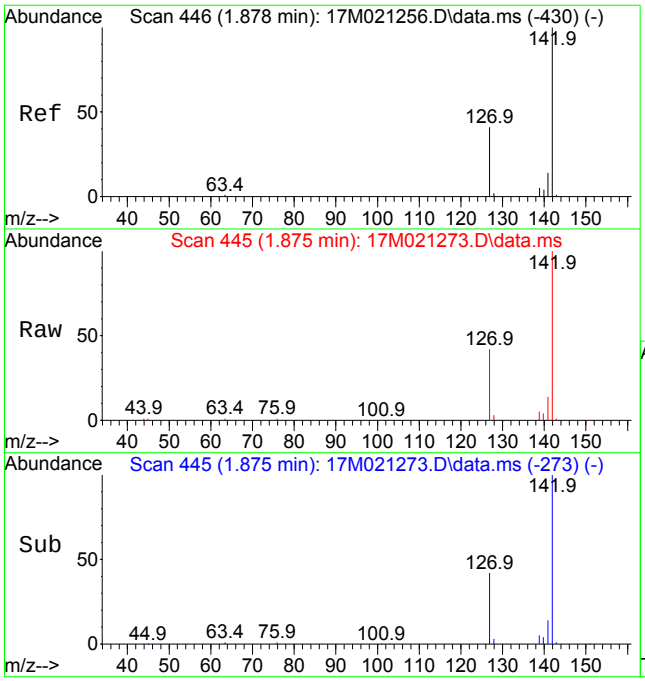


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 14.4687 ug/L
RT: 1.814 min Scan# 424
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:101 Resp: 53855

Ion	Ratio	Lower	Upper
101	100		
151	91.8	73.5	110.3
103	64.6	51.8	77.6

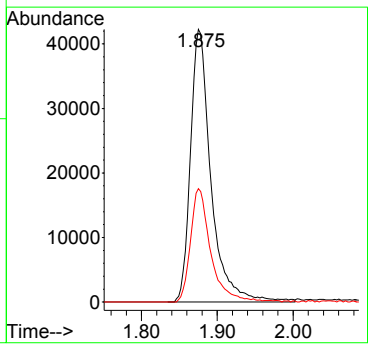


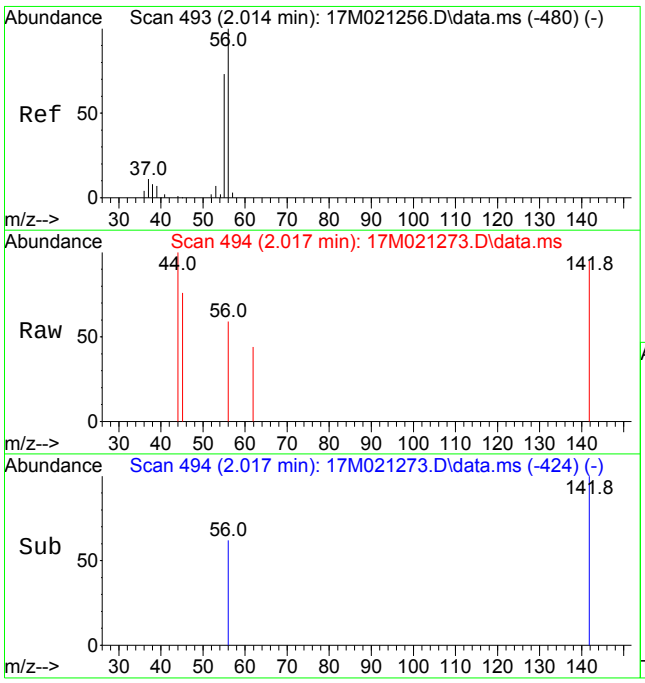


#13
Iodomethane
Concen: 14.8685 ug/L
RT: 1.875 min Scan# 445
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:142 Resp: 79526

Ion	Ratio	Lower	Upper
142	100		
127	41.3	33.3	49.9

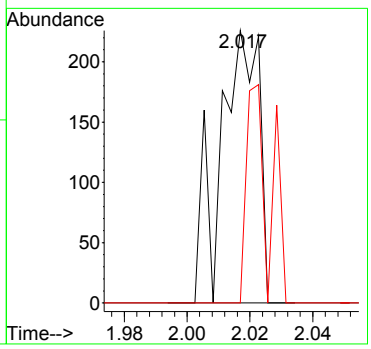


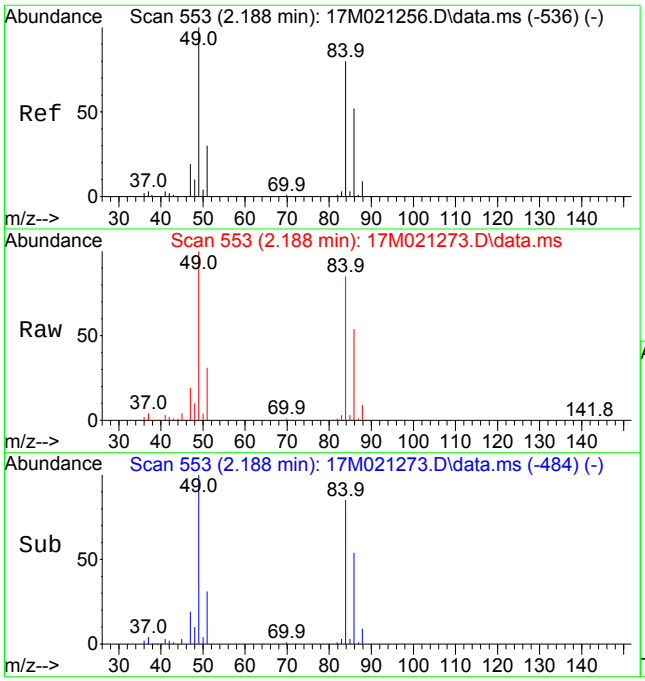


#14
Acrolein
Concen: 0.4436 ug/L
RT: 2.017 min Scan# 494
Delta R.T. 0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 56 Resp: 195

Ion	Ratio	Lower	Upper
56	100		
55	0.0	44.3	103.5#

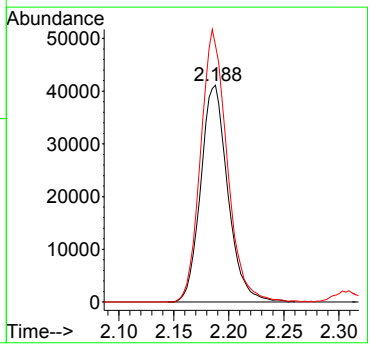


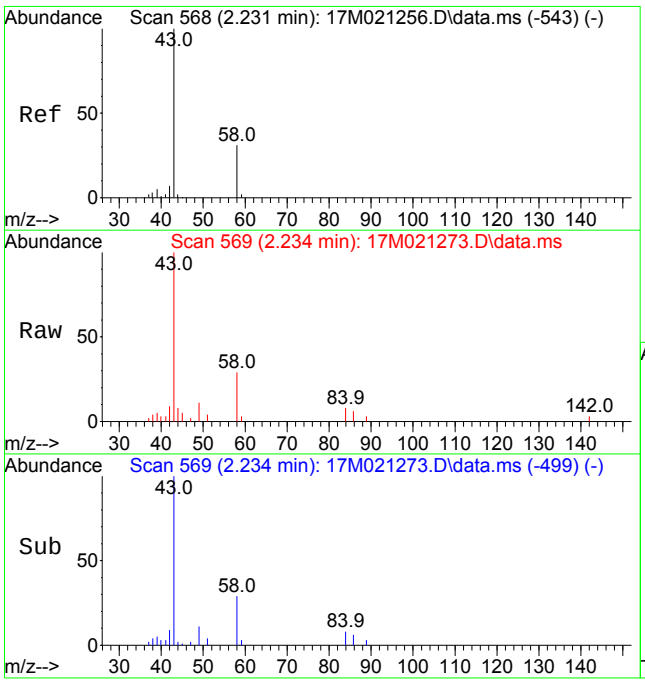


#15
Methylene Chloride
Concen: 17.4440 ug/L
RT: 2.188 min Scan# 553
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 84 Resp: 70653

Ion	Ratio	Lower	Upper
84	100		
49	123.3	99.0	148.6

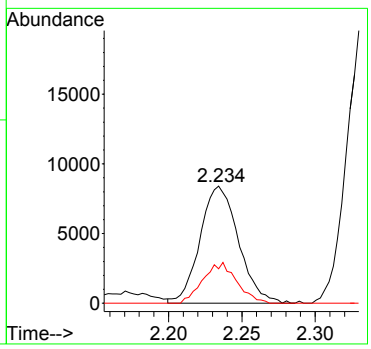


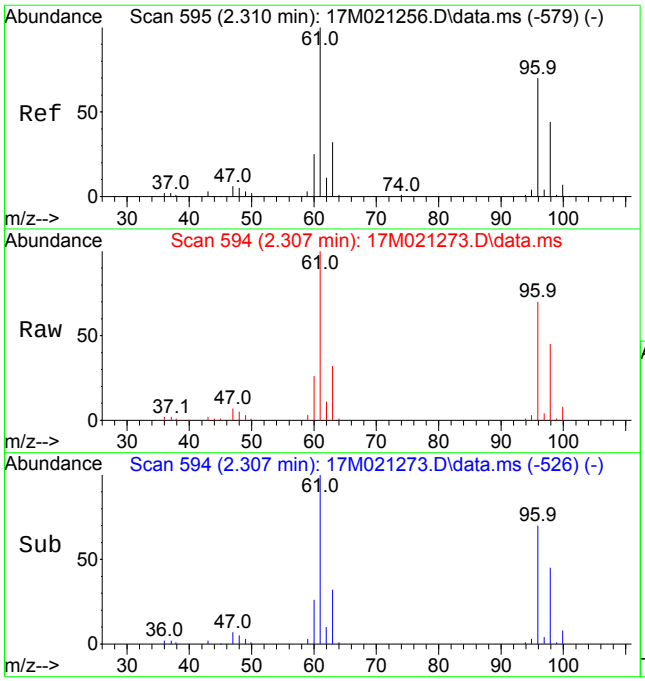


#16
Acetone
Concen: 26.1636 ug/L
RT: 2.234 min Scan# 569
Delta R.T. 0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 43 Resp: 15367

Ion	Ratio	Lower	Upper
43	100		
58	30.4	17.6	41.2

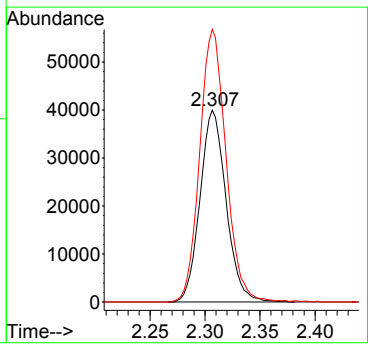


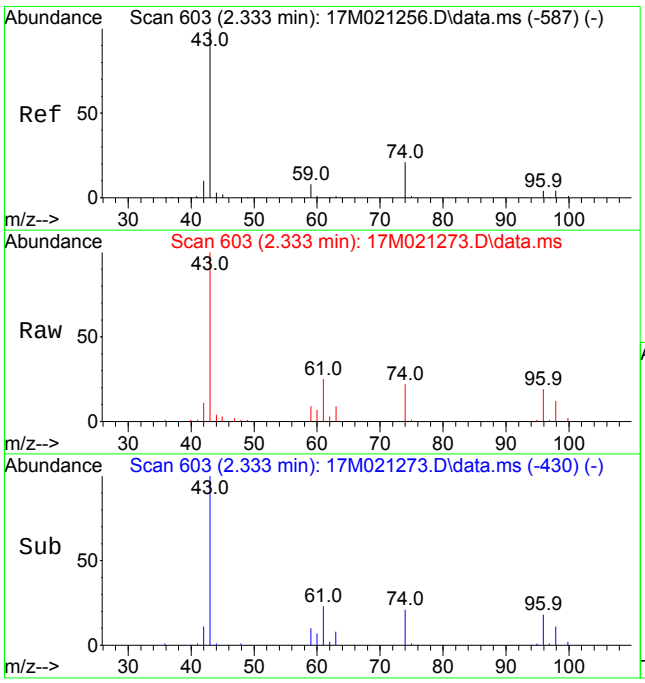


#17
trans-1,2-Dichloroethene
Concen: 16.7149 ug/L
RT: 2.307 min Scan# 594
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 96 Resp: 65971

Ion	Ratio	Lower	Upper
96	100		
61	143.7	115.4	173.0

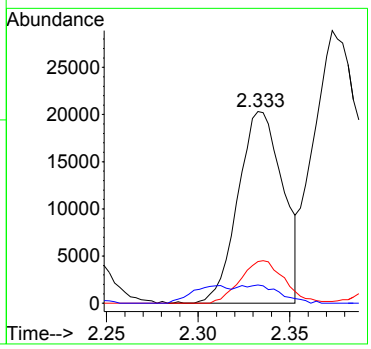


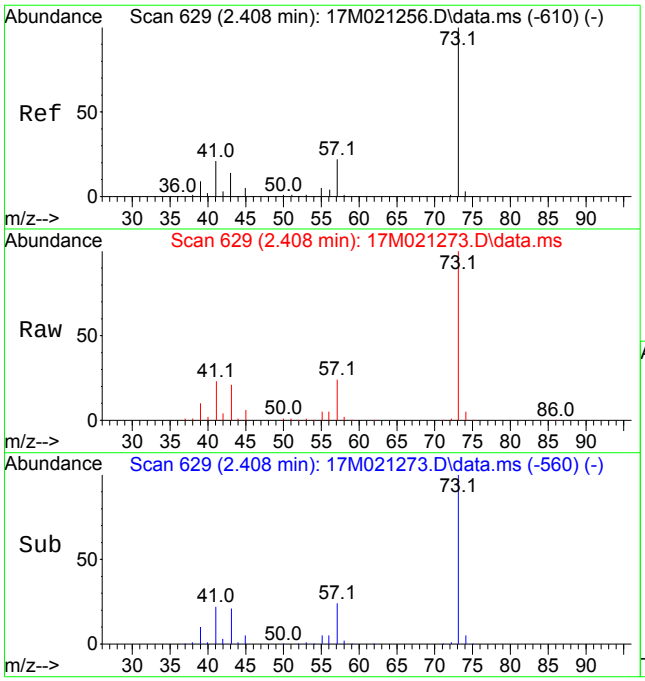


#18
Methyl acetate
Concen: 18.2626 ug/L
RT: 2.333 min Scan# 603
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 43 Resp: 34661

Ion	Ratio	Lower	Upper
43	100		
74	21.8	21.3	21.3#
59	7.8	13.6	20.4#

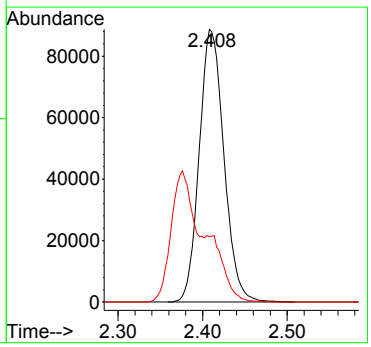


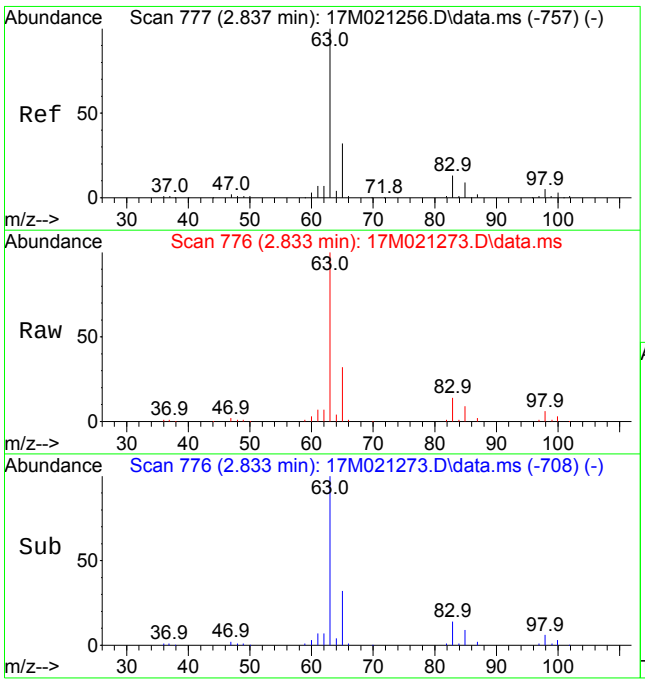


#19
Methyl Tert Butyl Ether
Concen: 21.0191 ug/L
RT: 2.408 min Scan# 629
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 73 Resp: 179534

Ion	Ratio	Lower	Upper
73	100		
57	65.2	17.8	26.6#

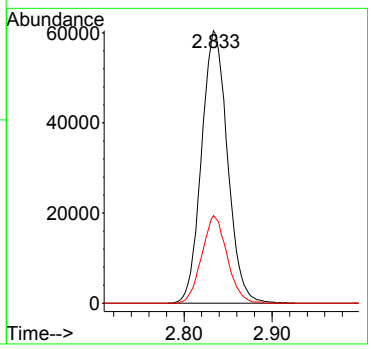


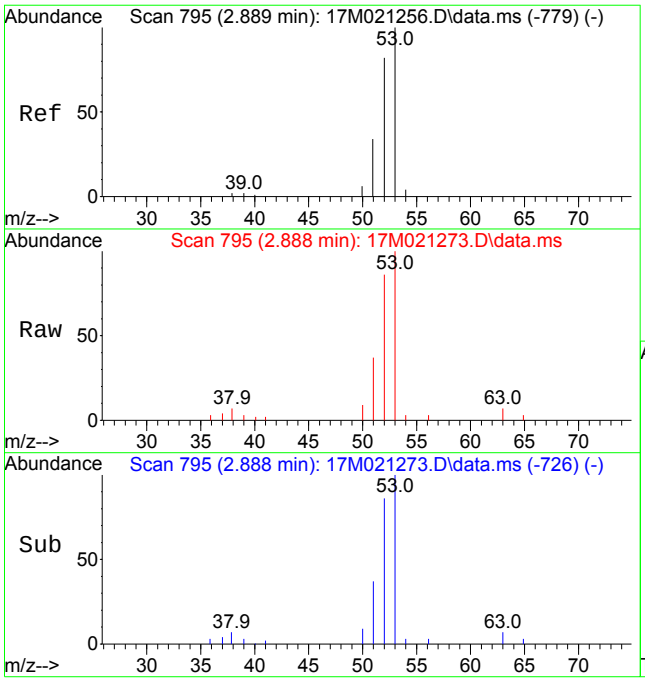


#20
1,1-Dichloroethane
Concen: 16.7467 ug/L
RT: 2.833 min Scan# 776
Delta R.T. -0.004 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 63 Resp: 123851

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.4	38.2

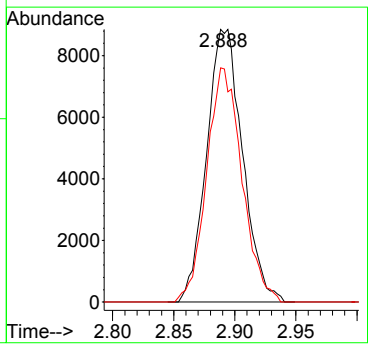


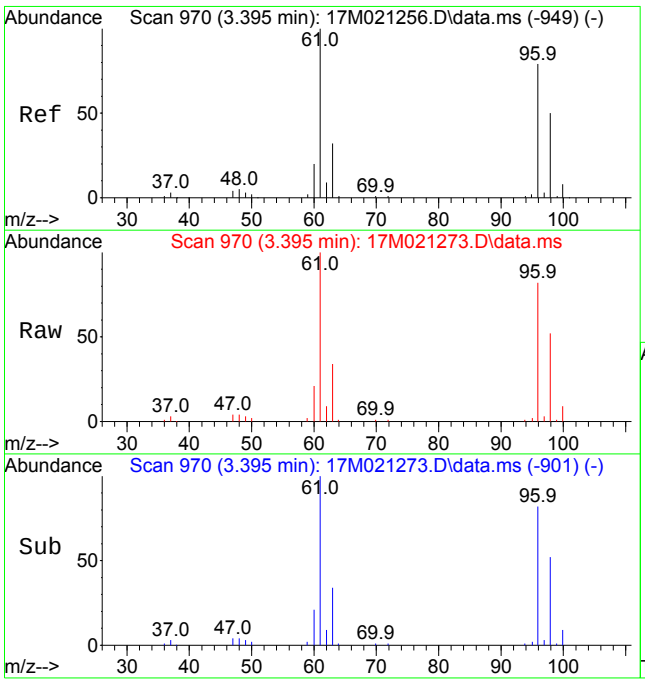


#21
Acrylonitrile
Concen: 22.4934 ug/L
RT: 2.888 min Scan# 795
Delta R.T. -0.001 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 53 Resp: 18152

Ion	Ratio	Lower	Upper
53	100		
52	84.0	50.8	118.4

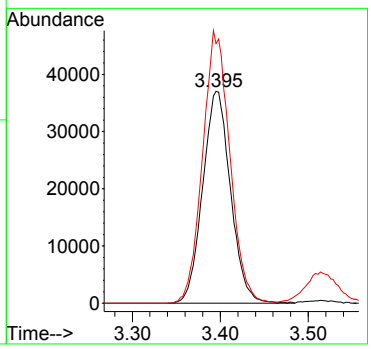


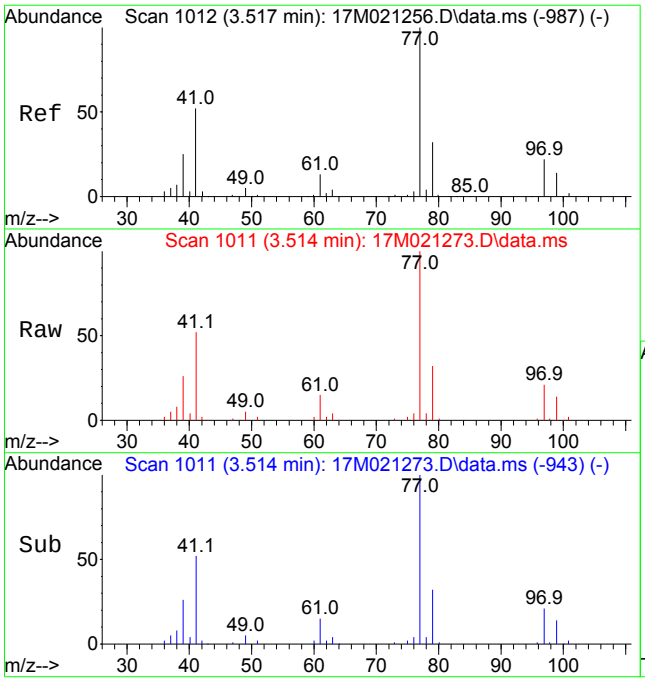


#23
cis-1,2-Dichloroethene
Concen: 18.4856 ug/L
RT: 3.395 min Scan# 970
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 96 Resp: 81353

Ion	Ratio	Lower	Upper
96	100		
61	126.2	102.6	154.0

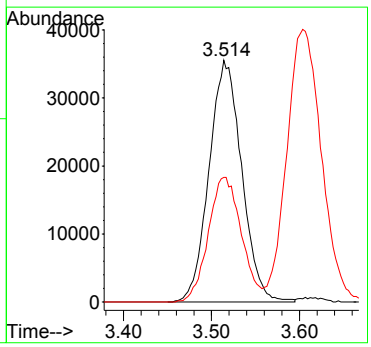


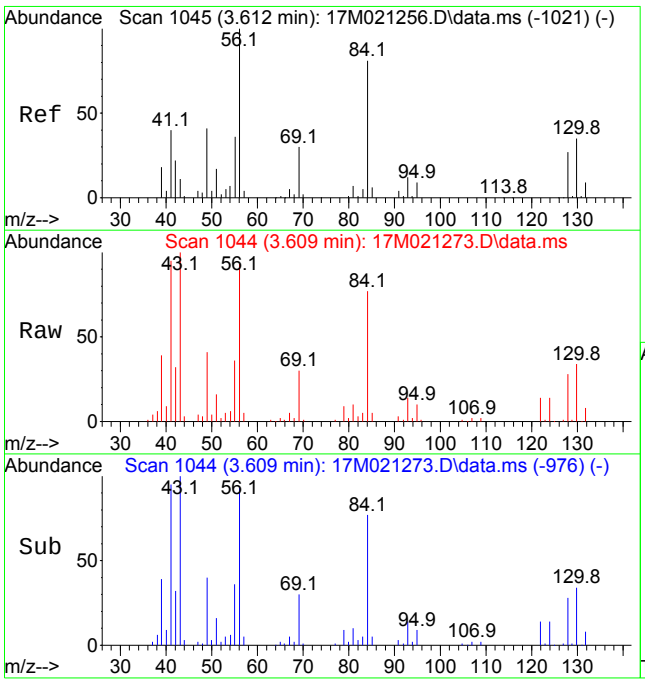


#24
2,2-Dichloropropane
Concen: 15.6529 ug/L
RT: 3.514 min Scan# 1011
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 77 Resp: 91717

Ion	Ratio	Lower	Upper
77	100		
41	52.6	42.0	63.0

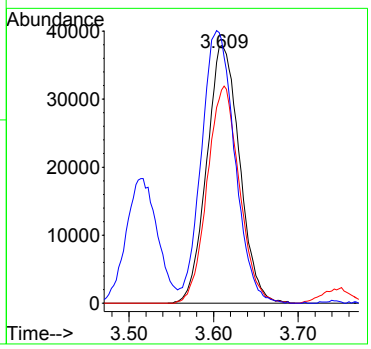


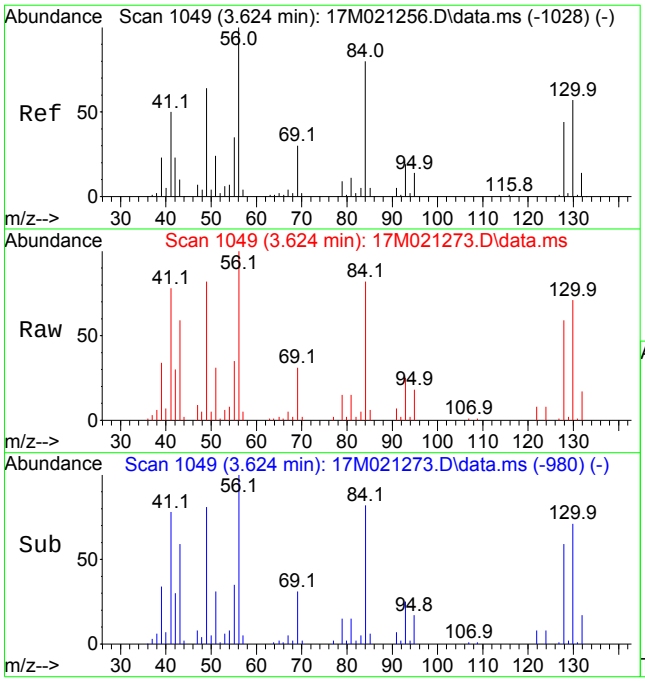


#25
Cyclohexane
Concen: 16.3588 ug/L
RT: 3.609 min Scan# 1044
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 56 Resp: 102530

Ion	Ratio	Lower	Upper
56	100		
84	82.2	64.1	96.1
41	107.3	44.2	66.4#

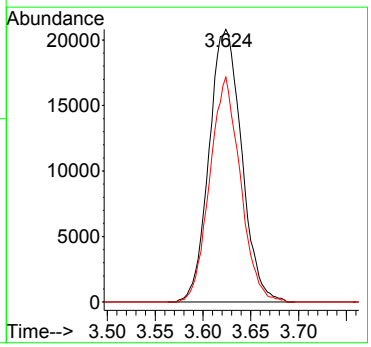


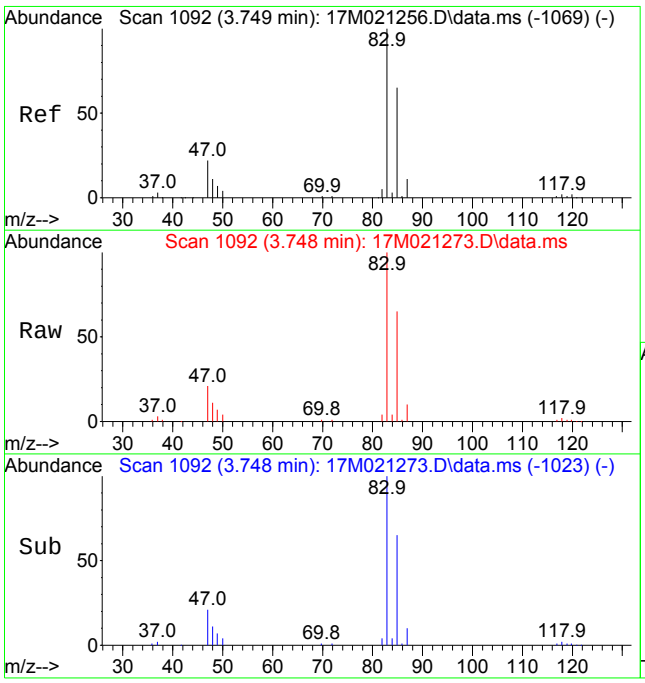


#26
Bromochloromethane
Concen: 18.3862 ug/L
RT: 3.624 min Scan# 1049
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:130 Resp: 49221

Ion	Ratio	Lower	Upper
130	100		
128	77.5	62.1	93.1

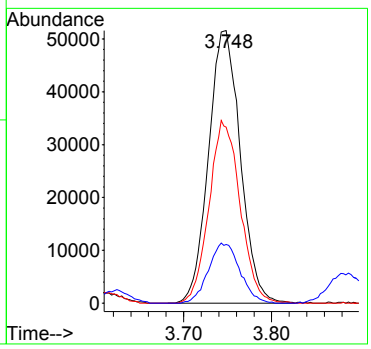


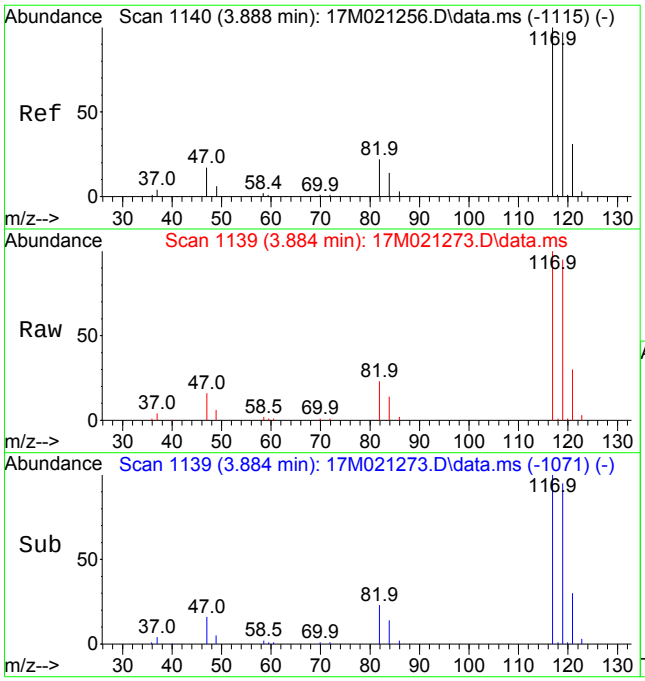


#27
Chloroform
Concen: 17.6669 ug/L
RT: 3.748 min Scan# 1092
Delta R.T. -0.001 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 83 Resp: 129788

Ion	Ratio	Lower	Upper
83	100		
85	65.4	39.0	91.0
47	21.8	13.3	30.9

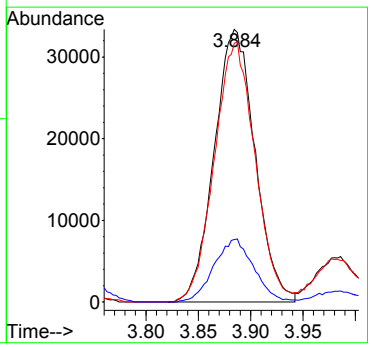


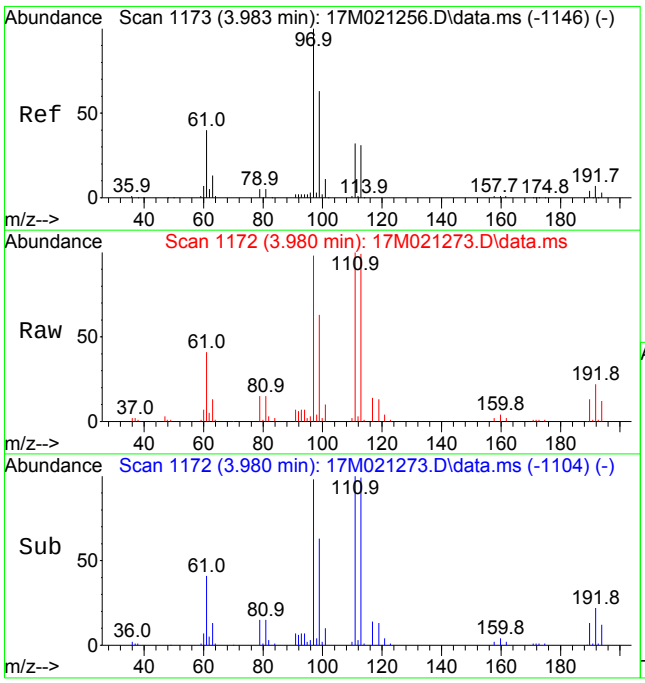


#28
Carbon Tetrachloride
Concen: 16.2950 ug/L
RT: 3.884 min Scan# 1139
Delta R.T. -0.004 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:117 Resp: 90596

Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.3	115.9
82	22.6	18.1	27.1

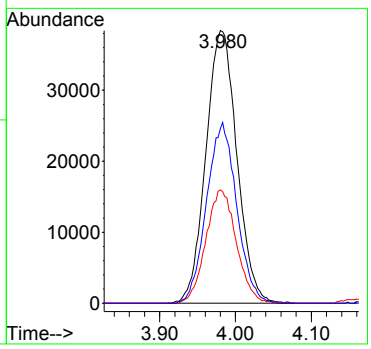


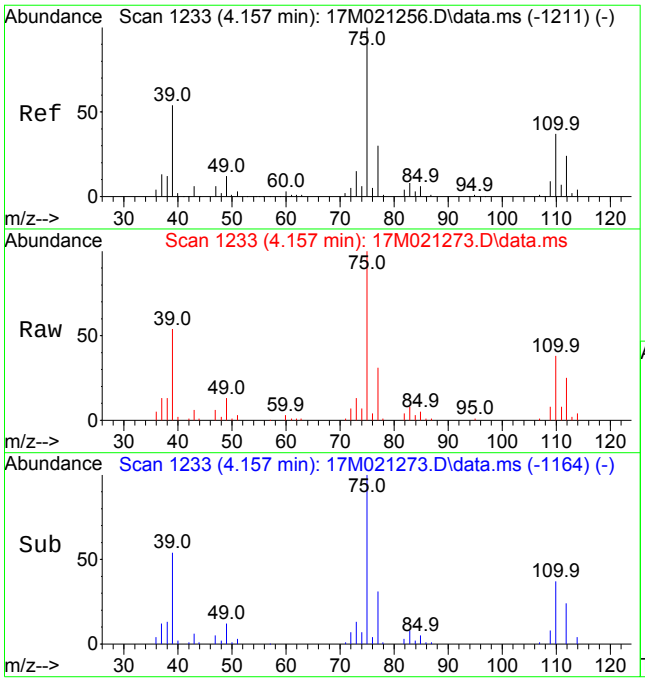


#30
1,1,1-Trichloroethane
Concen: 16.6689 ug/L
RT: 3.980 min Scan# 1172
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 97 Resp: 109338

Ion	Ratio	Lower	Upper
97	100		
61	40.8	24.6	57.4
99	64.2	51.7	77.5

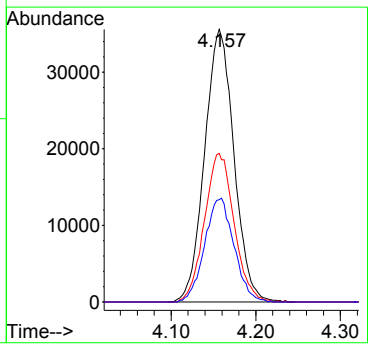


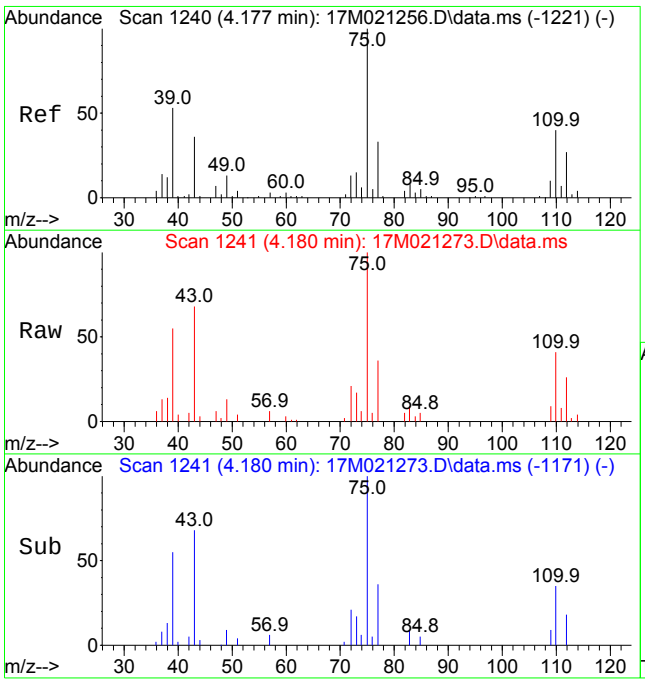


#31
1,1-Dichloropropene
Concen: 15.9904 ug/L
RT: 4.157 min Scan# 1233
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 75 Resp: 85749

Ion	Ratio	Lower	Upper
75	100		
39	55.0	32.8	76.6
110	38.1	22.8	53.2

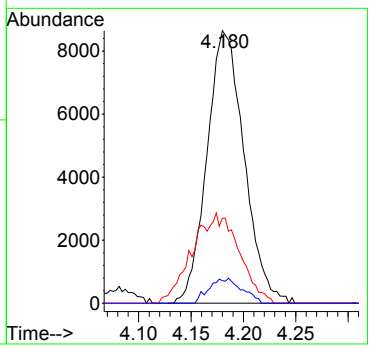


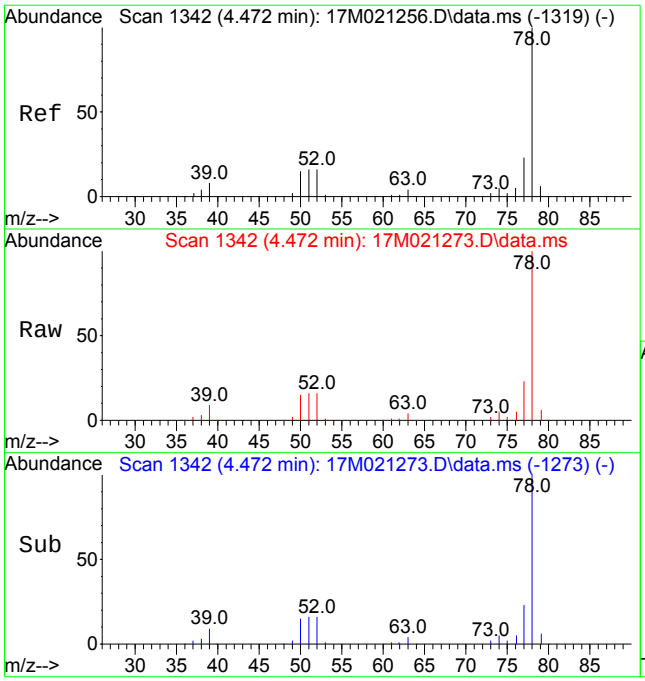


#32
2-Butanone
Concen: 23.0054 ug/L
RT: 4.180 min Scan# 1241
Delta R.T. 0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 43 Resp: 21385

Ion	Ratio	Lower	Upper
43	100		
72	41.7	40.0	60.0
57	8.0	6.4	9.6

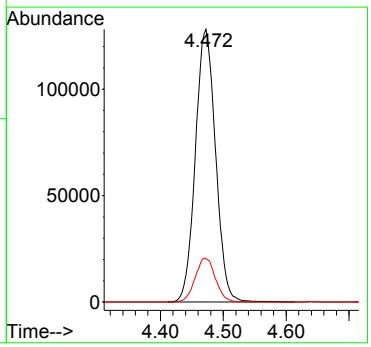


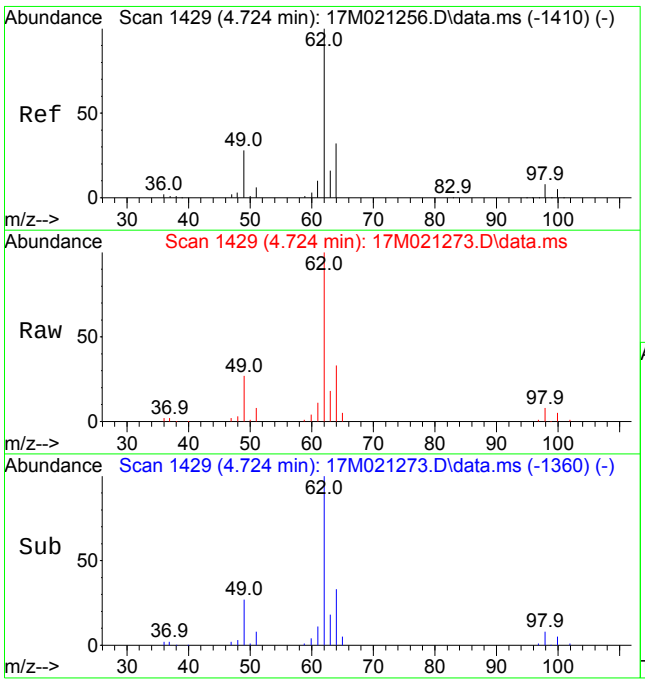


#33
Benzene
Concen: 17.5674 ug/L
RT: 4.472 min Scan# 1342
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 78 Resp: 285623

Ion	Ratio	Lower	Upper
78	100		
52	16.1	13.0	19.4

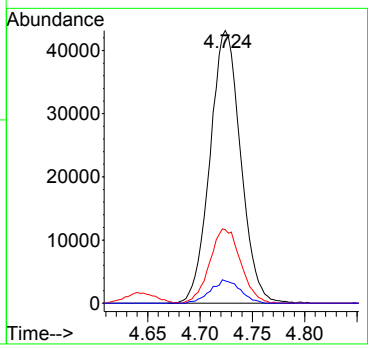


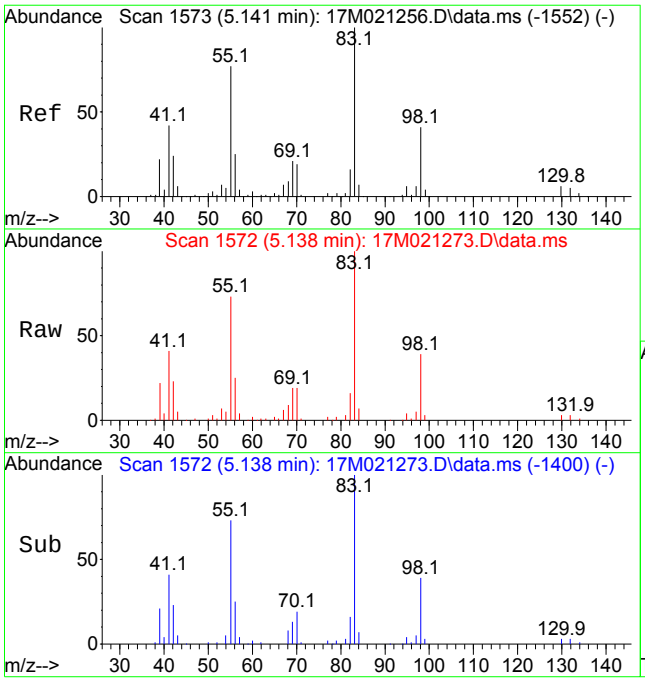


#35
1,2-Dichloroethane
Concen: 19.0931 ug/L
RT: 4.724 min Scan# 1429
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 62 Resp: 87905

Ion	Ratio	Lower	Upper
62	100		
49	27.6	16.7	38.9
98	8.3	5.0	11.6

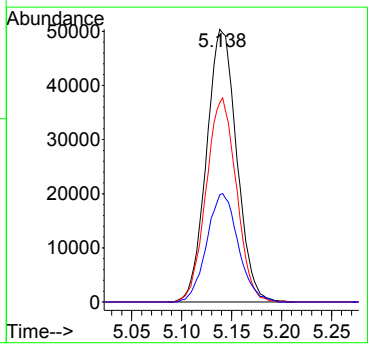


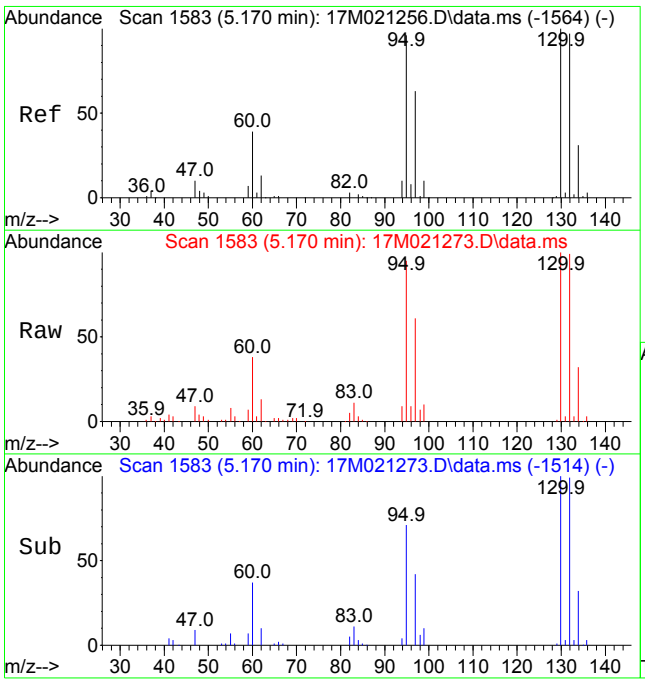


#36
Methylcyclohexane
Concen: 16.3764 ug/L
RT: 5.138 min Scan# 1572
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 83 Resp: 105972

Ion	Ratio	Lower	Upper
83	100		
55	74.8	60.5	90.7
98	41.5	33.4	50.2

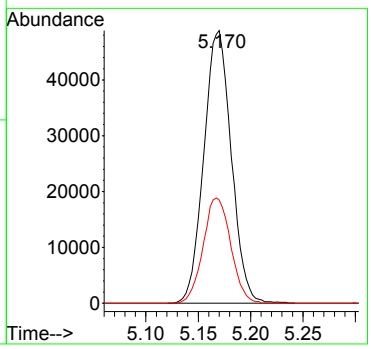


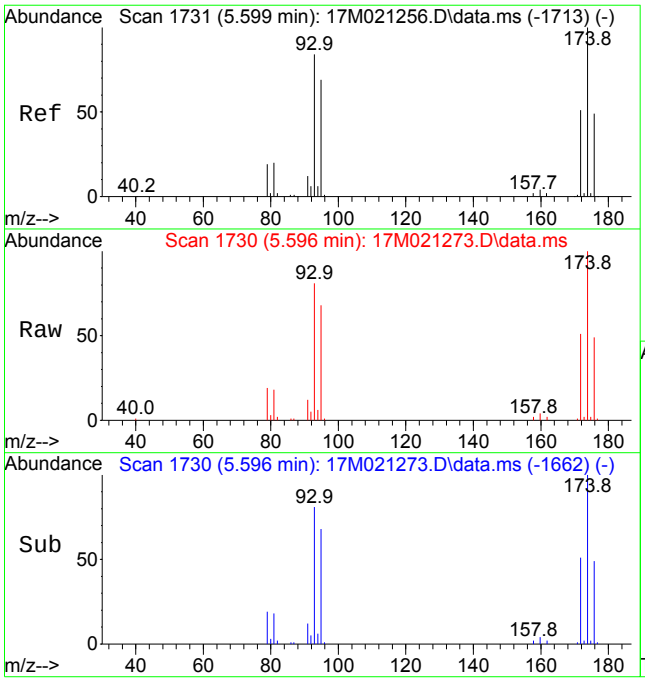


#37
Trichloroethene
Concen: 16.2207 ug/L
RT: 5.170 min Scan# 1583
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:130 Resp: 89159

Ion	Ratio	Lower	Upper
130	100		
60	38.8	23.6	55.2

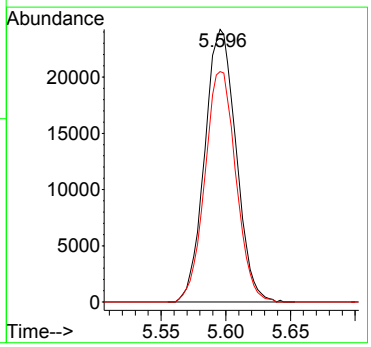


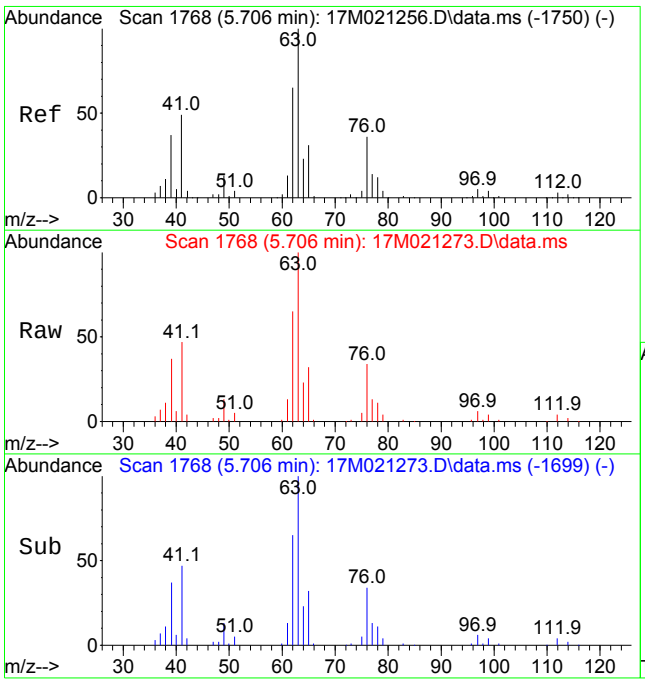


#38
Dibromomethane
Concen: 18.4407 ug/L
RT: 5.596 min Scan# 1730
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 93 Resp: 40817

Ion	Ratio	Lower	Upper
93	100		
95	83.6	67.0	100.4

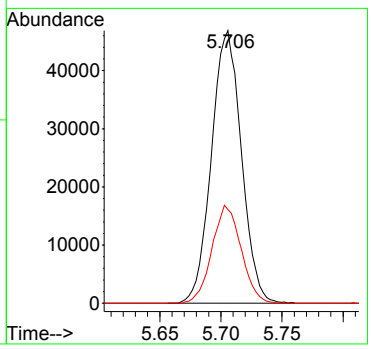


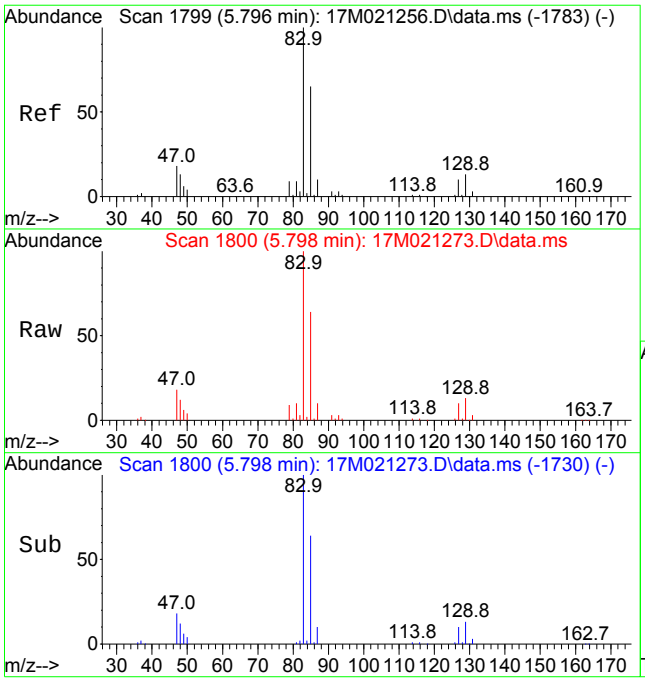


#39
1,2-Dichloropropane
Concen: 18.6557 ug/L
RT: 5.706 min Scan# 1768
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 63 Resp: 79914

Ion	Ratio	Lower	Upper
63	100		
76	34.9	20.8	48.6

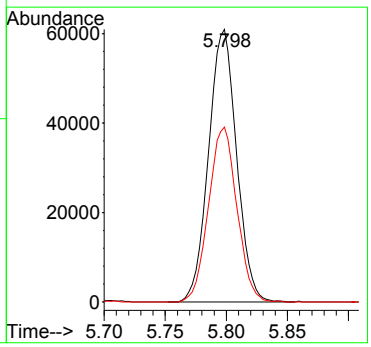


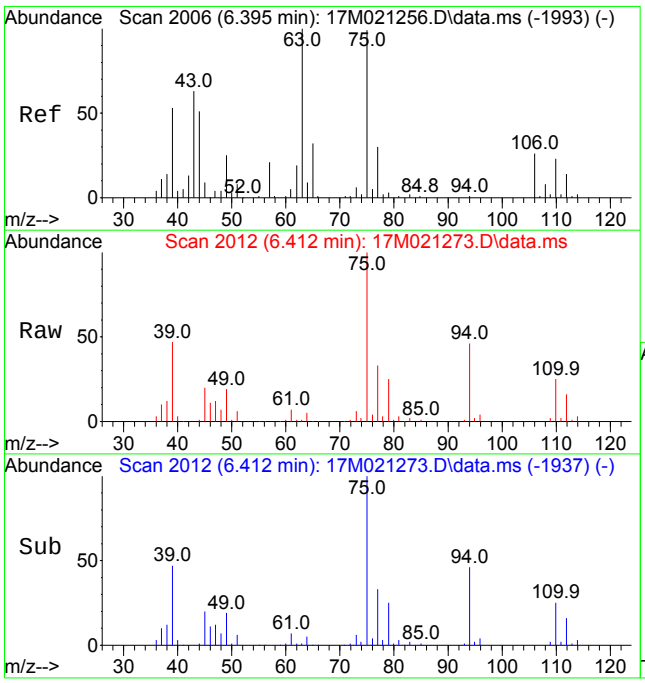


#40
Bromodichloromethane
Concen: 18.7280 ug/L
RT: 5.798 min Scan# 1800
Delta R.T. 0.002 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 83 Resp: 97391

Ion	Ratio	Lower	Upper
83	100		
85	64.8	51.7	77.5

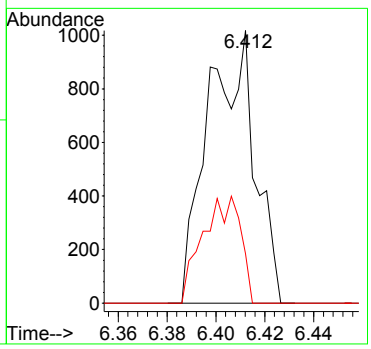


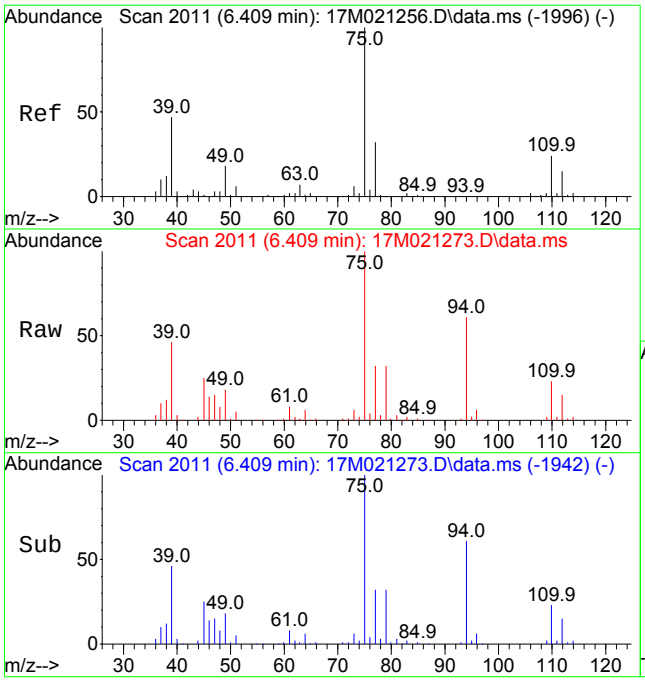


#42
2-Chloroethyl Vinyl Ether
Concen: 1.4809 ug/L
RT: 6.412 min Scan# 2012
Delta R.T. 0.017 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 63 Resp: 1358

Ion	Ratio	Lower	Upper
63	100		
65	31.7	19.1	44.7

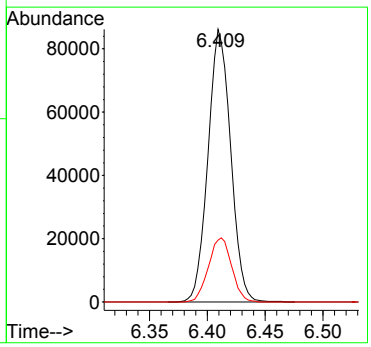


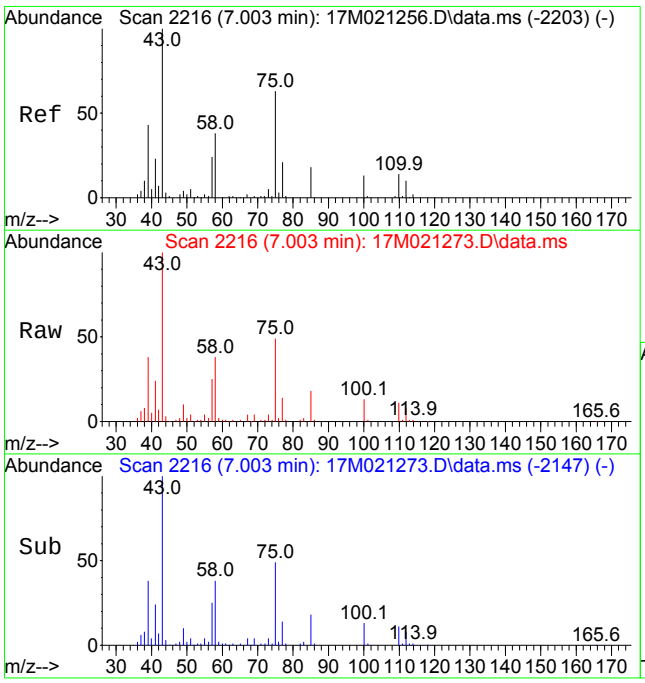


#43
cis-1,3-Dichloropropene
Concen: 20.6003 ug/L
RT: 6.409 min Scan# 2011
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 75 Resp: 117466

Ion	Ratio	Lower	Upper
75	100		
110	24.0	19.4	29.0

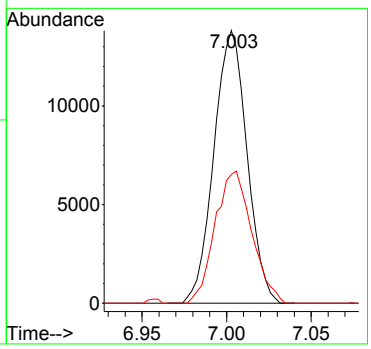


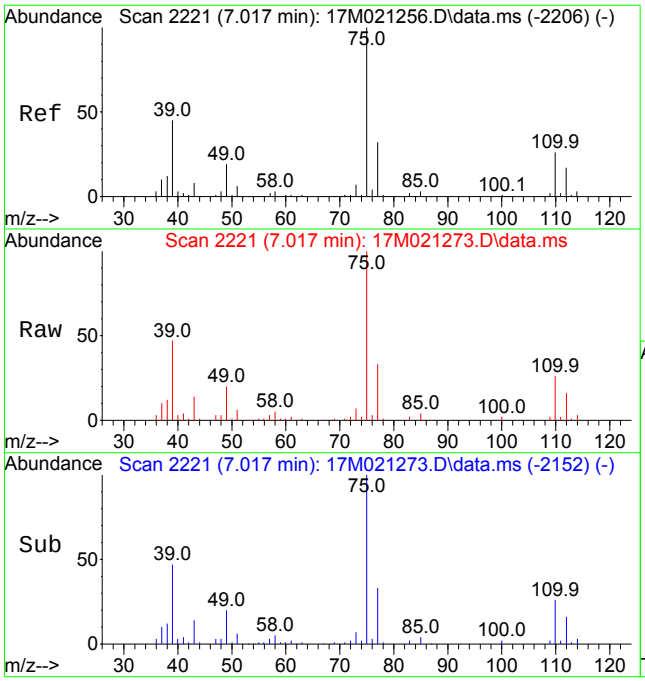


#44
4-Methyl-2-Pentanone
Concen: 22.8426 ug/L
RT: 7.003 min Scan# 2216
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 58 Resp: 18768

Ion	Ratio	Lower	Upper
58	100		
85	53.7	33.6	78.4

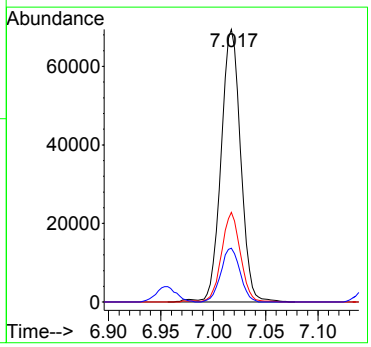


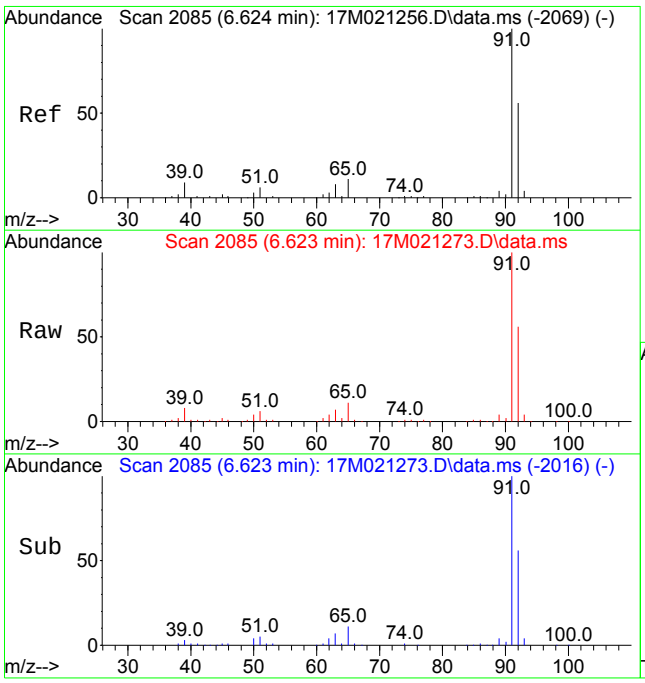


#45
trans-1,3-Dichloropropene
Concen: 19.6076 ug/L
RT: 7.017 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 75 Resp: 90730

Ion	Ratio	Lower	Upper
75	100		
77	32.0	19.4	45.2
49	19.4	11.8	27.4

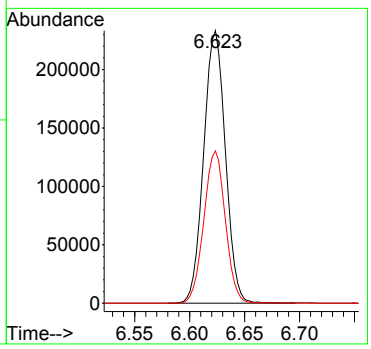


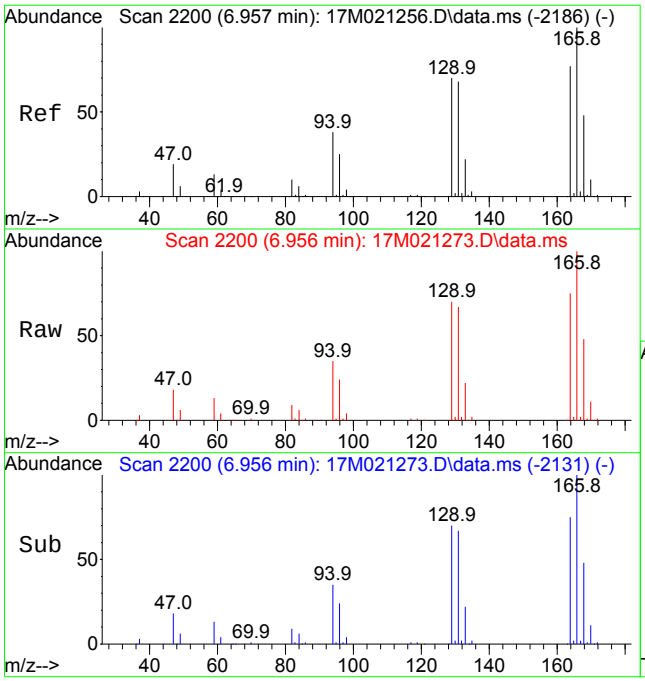


#48
Toluene
Concen: 17.9646 ug/L
RT: 6.623 min Scan# 2085
Delta R.T. -0.001 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 91 Resp: 321603

Ion	Ratio	Lower	Upper
91	100		
92	55.3	33.4	78.0

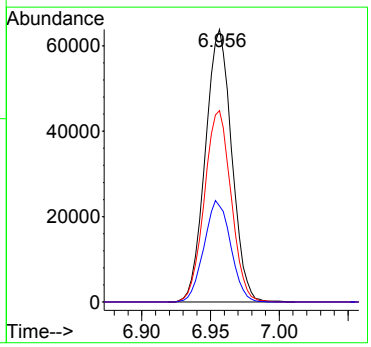


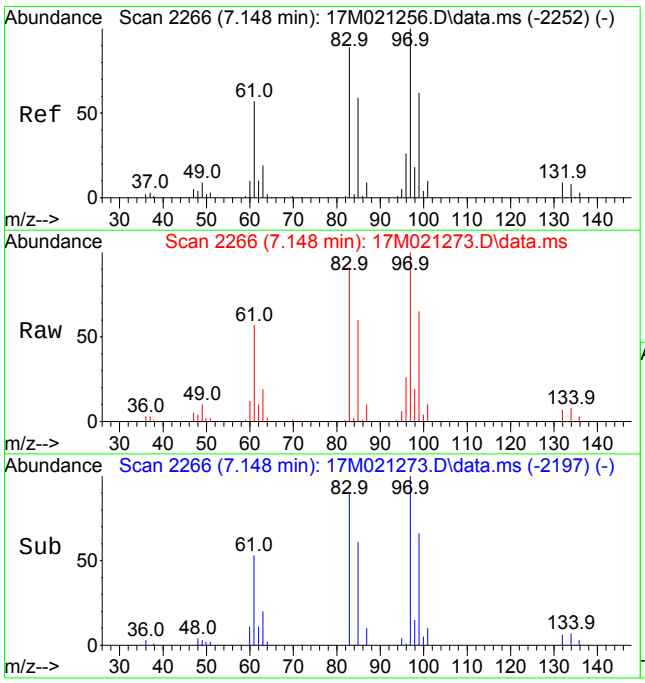


#49
Tetrachloroethene
Concen: 16.3771 ug/L
RT: 6.956 min Scan# 2200
Delta R.T. -0.001 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:166 Resp: 85261

Ion	Ratio	Lower	Upper
166	100		
129	71.2	56.7	85.1
94	37.6	30.7	46.1

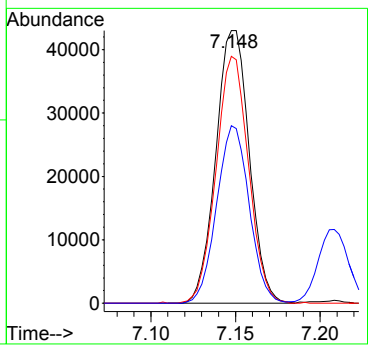


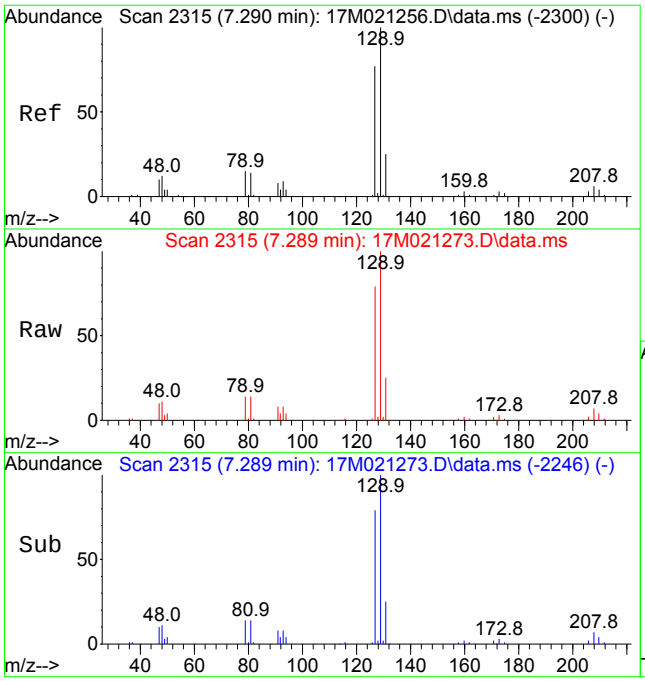


#50
1,1,2-Trichloroethane
Concen: 19.9348 ug/L
RT: 7.148 min Scan# 2266
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 97 Resp: 59044

Ion	Ratio	Lower	Upper
97	100		
83	88.0	53.5	124.9
99	63.2	37.8	88.2

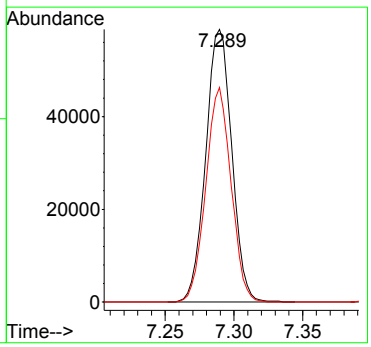


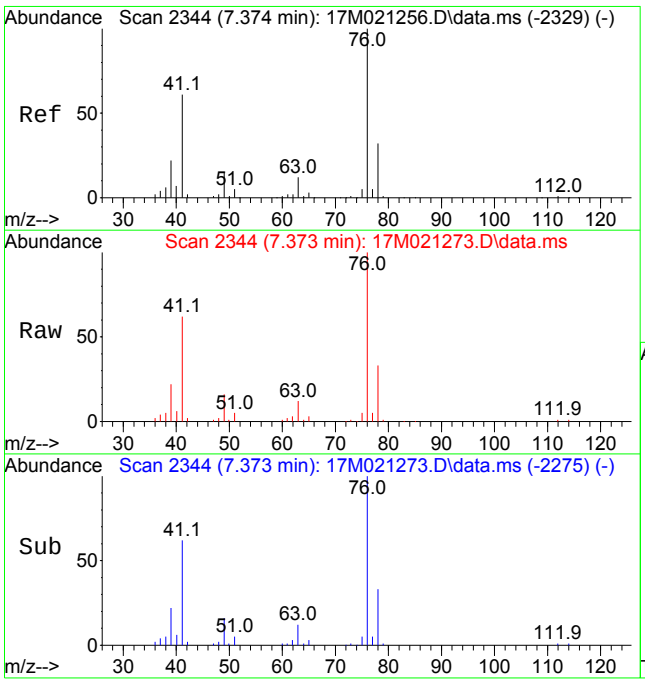


#51
Dibromochloromethane
Concen: 18.9473 ug/L
RT: 7.289 min Scan# 2315
Delta R.T. -0.001 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:129 Resp: 77502

Ion	Ratio	Lower	Upper
129	100		
127	76.3	61.4	92.2

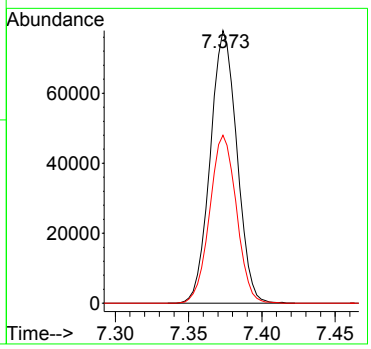


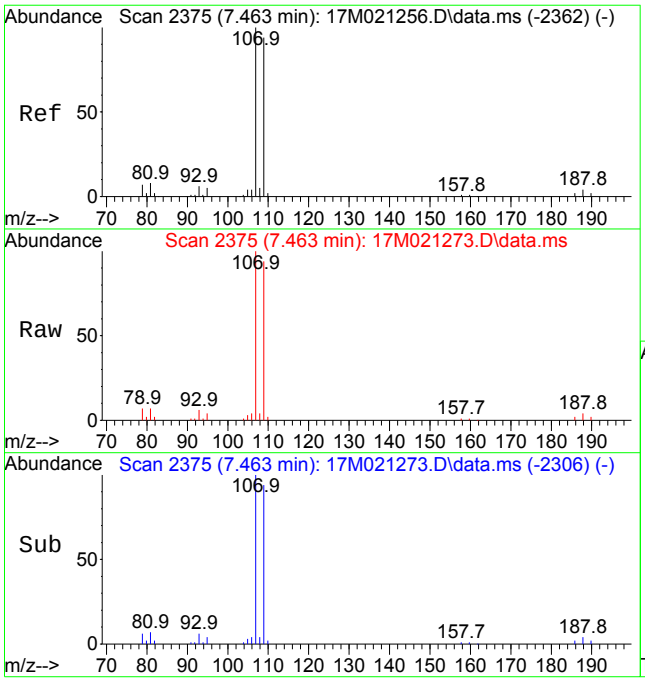


#52
1,3-Dichloropropane
Concen: 20.6988 ug/L
RT: 7.373 min Scan# 2344
Delta R.T. -0.001 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 76 Resp: 98598

Ion	Ratio	Lower	Upper
76	100		
41	61.9	37.4	87.2

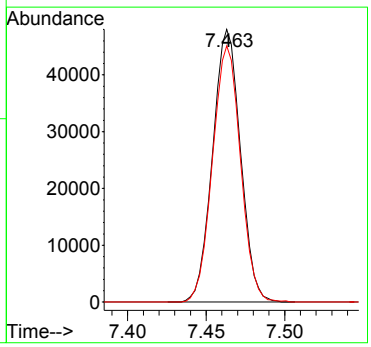


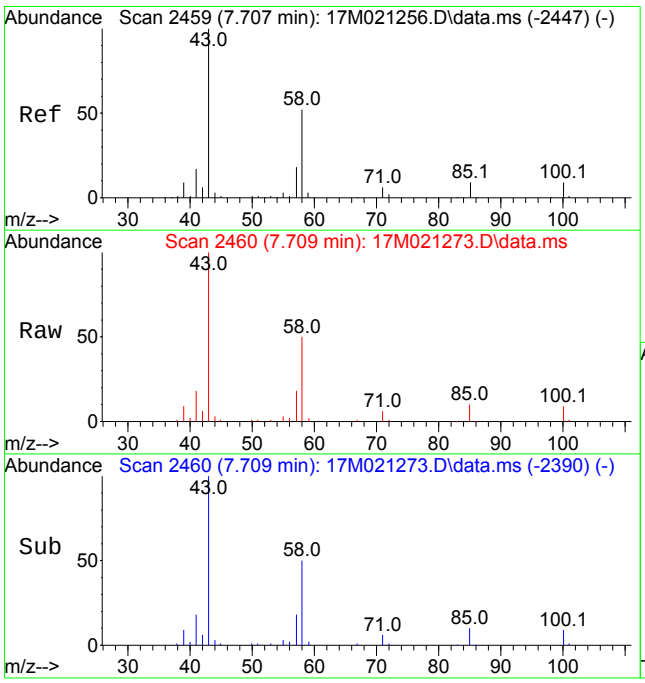


#53
1,2-Dibromoethane
Concen: 20.0022 ug/L
RT: 7.463 min Scan# 2375
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:107 Resp: 59270

Ion	Ratio	Lower	Upper
107	100		
109	94.2	56.6	132.2

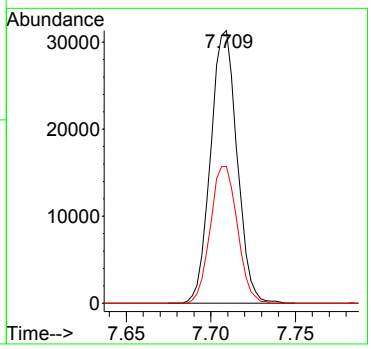


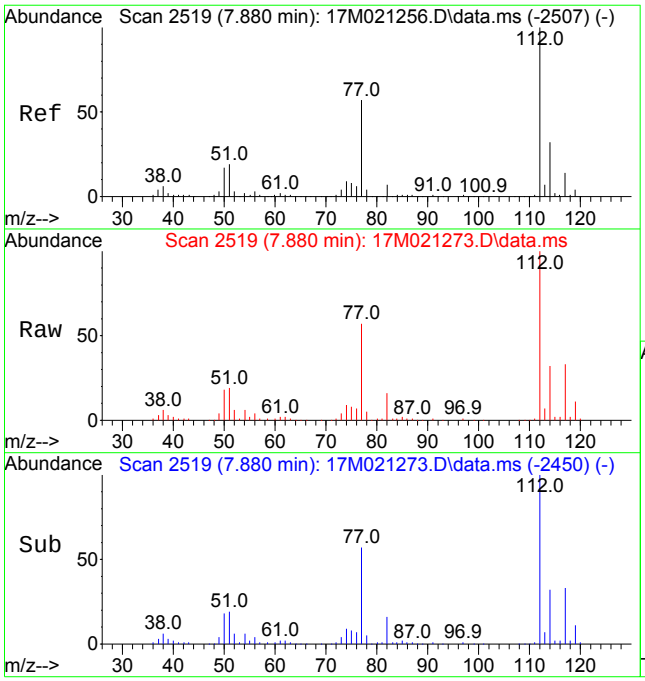


#54
2-Hexanone
Concen: 22.9683 ug/L
RT: 7.709 min Scan# 2460
Delta R.T. 0.002 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 43 Resp: 33965

Ion	Ratio	Lower	Upper
43	100		
58	51.2	41.4	62.2

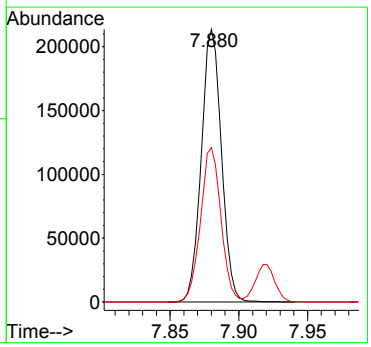


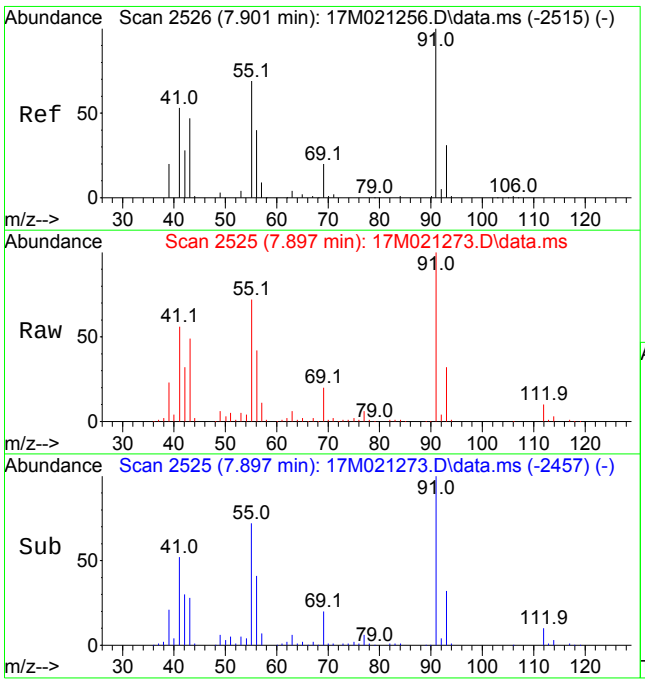


#55
Chlorobenzene
Concen: 18.5123 ug/L
RT: 7.880 min Scan# 2519
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:112 Resp: 217766

Ion	Ratio	Lower	Upper
112	100		
77	57.4	34.3	80.1

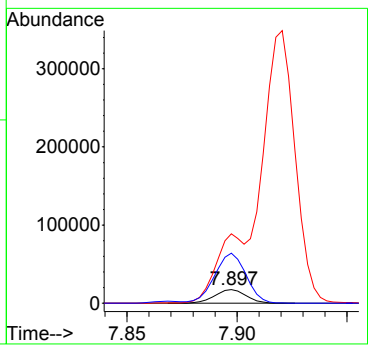


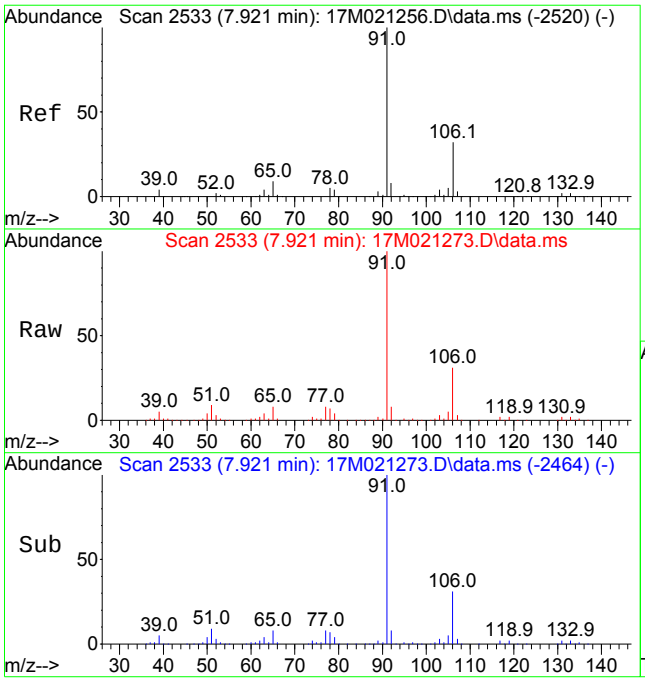


#56
1-Chlorohexane
Concen: 17.8707 ug/L
RT: 7.897 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 69 Resp: 17404

Ion	Ratio	Lower	Upper
69	100		
91	2489.0	1913.8	2870.6
55	380.8	297.2	445.8

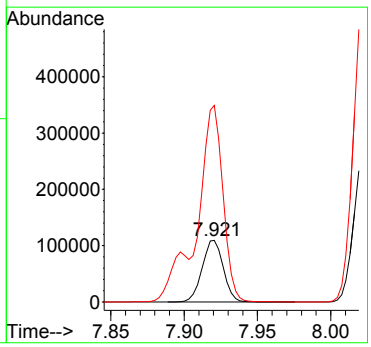


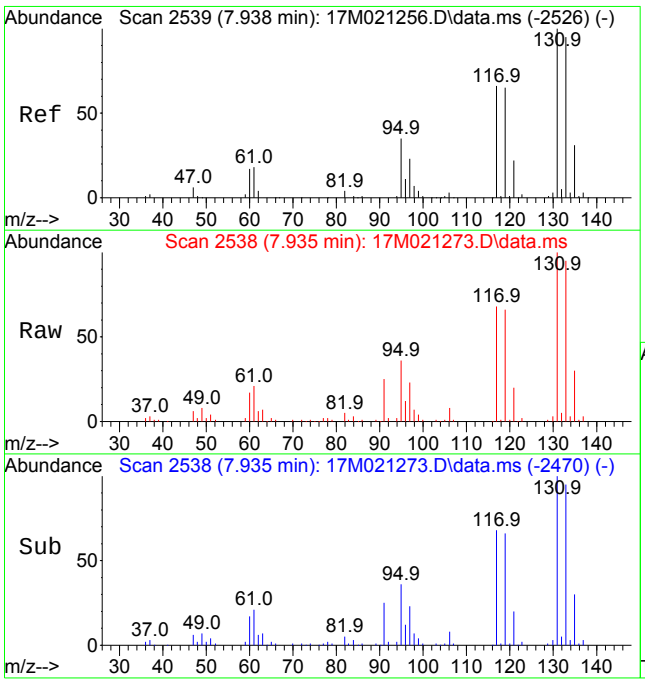


#57
Ethylbenzene
Concen: 17.7423 ug/L
RT: 7.921 min Scan# 2533
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:106 Resp: 109771

Ion	Ratio	Lower	Upper
106	100		
91	394.6	318.2	477.2

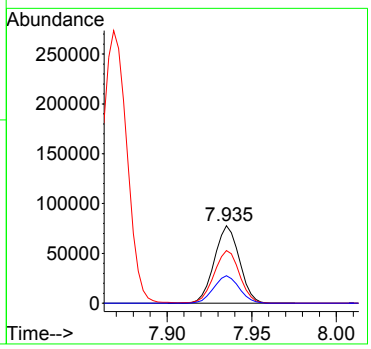


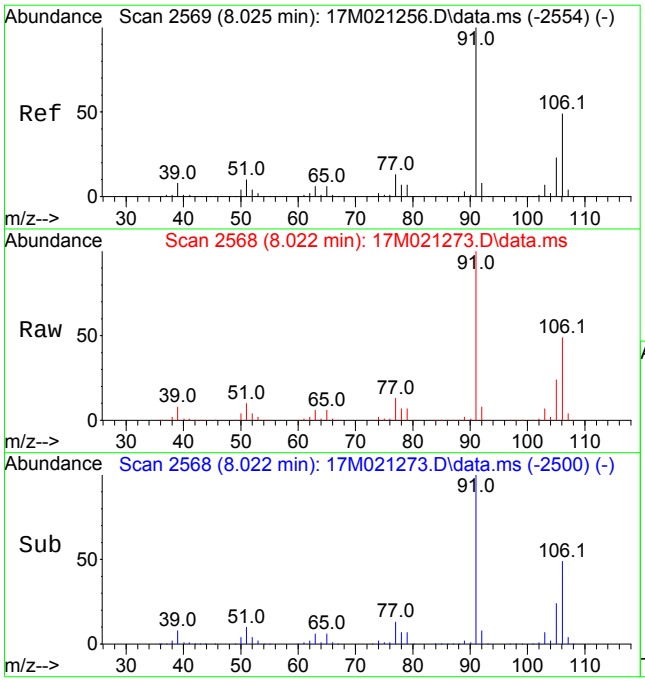


#58
1,1,1,2-Tetrachloroethane
Concen: 19.4294 ug/L
RT: 7.935 min Scan# 2538
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:131 Resp: 79783

Ion	Ratio	Lower	Upper
131	100		
117	69.2	40.9	95.5
95	36.1	21.7	50.5

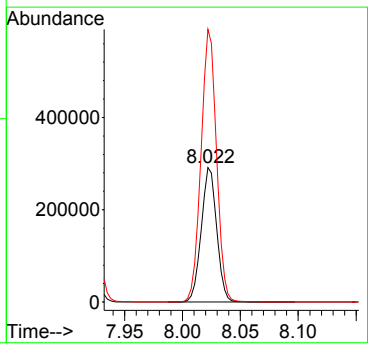


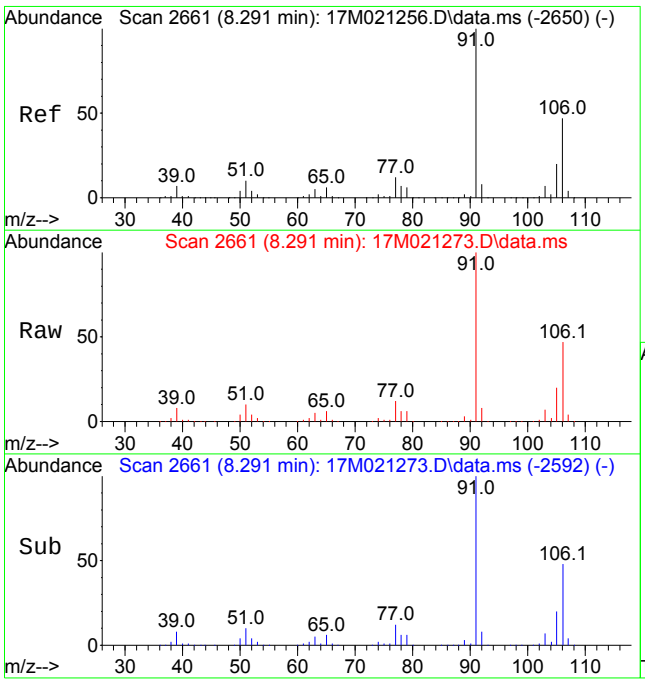


#59
m-,p-Xylene
Concen: 36.8822 ug/L
RT: 8.022 min Scan# 2568
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:106 Resp: 270191

Ion	Ratio	Lower	Upper
106	100		
91	203.6	121.7	283.9

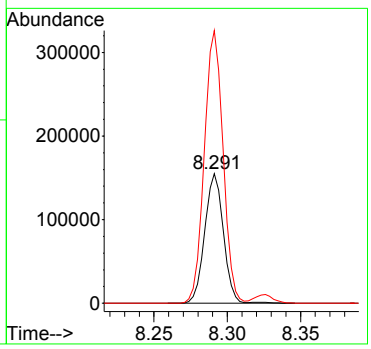


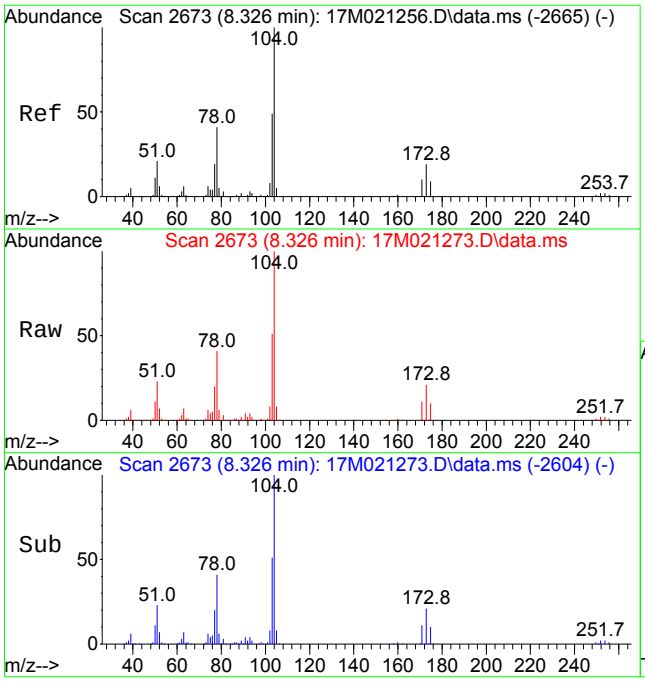


#60
o-Xylene
Concen: 19.1080 ug/L
RT: 8.291 min Scan# 2661
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:106 Resp: 137380

Ion	Ratio	Lower	Upper
106	100		
91	212.3	129.8	302.8

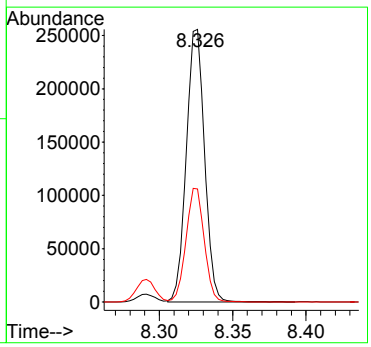


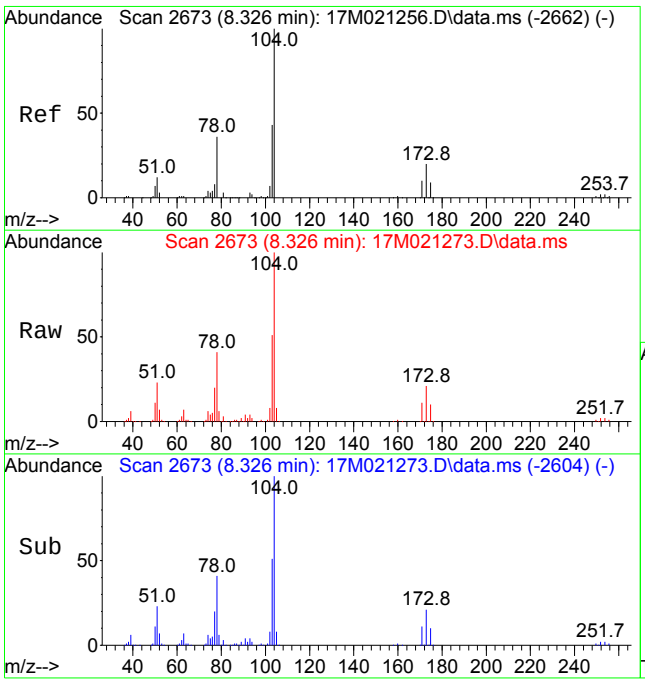


#61
Styrene
Concen: 19.2789 ug/L
RT: 8.326 min Scan# 2673
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:104 Resp: 221059

Ion	Ratio	Lower	Upper
104	100		
78	41.6	25.3	58.9

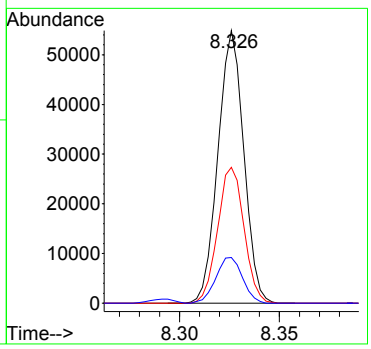


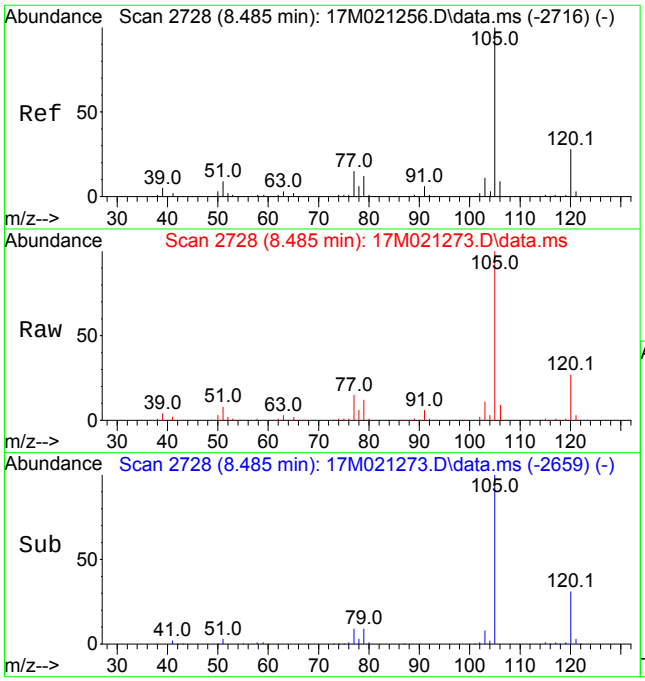


#62
Bromoform
Concen: 18.8272 ug/L
RT: 8.326 min Scan# 2673
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:173 Resp: 49281

Ion	Ratio	Lower	Upper
173	100		
171	50.9	30.8	72.0
93	17.3	10.6	24.8

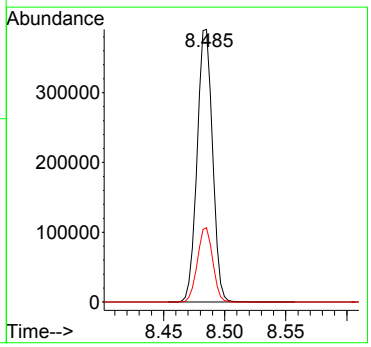


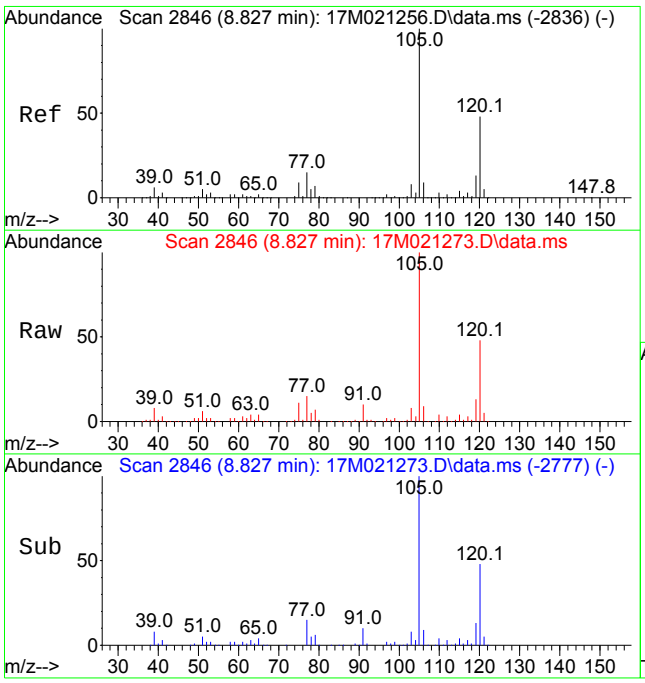


#63
Isopropylbenzene
Concen: 18.4040 ug/L
RT: 8.485 min Scan# 2728
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:105 Resp: 342781

Ion	Ratio	Lower	Upper
105	100		
120	27.0	16.1	37.5

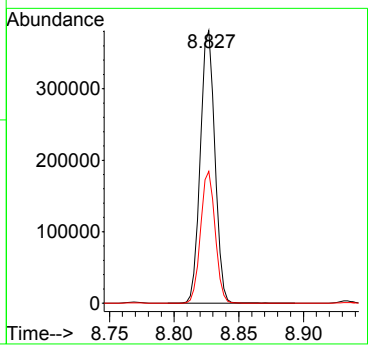


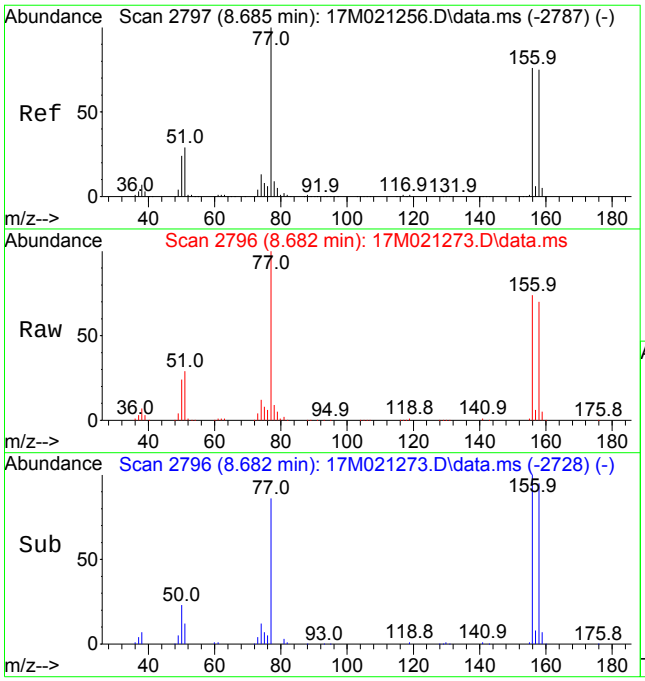


#65
1,3,5-Trimethylbenzene
Concen: 18.7309 ug/L
RT: 8.827 min Scan# 2846
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:105 Resp: 298591

Ion	Ratio	Lower	Upper
105	100		
120	48.3	38.7	58.1

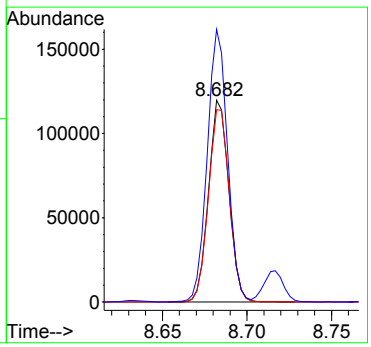


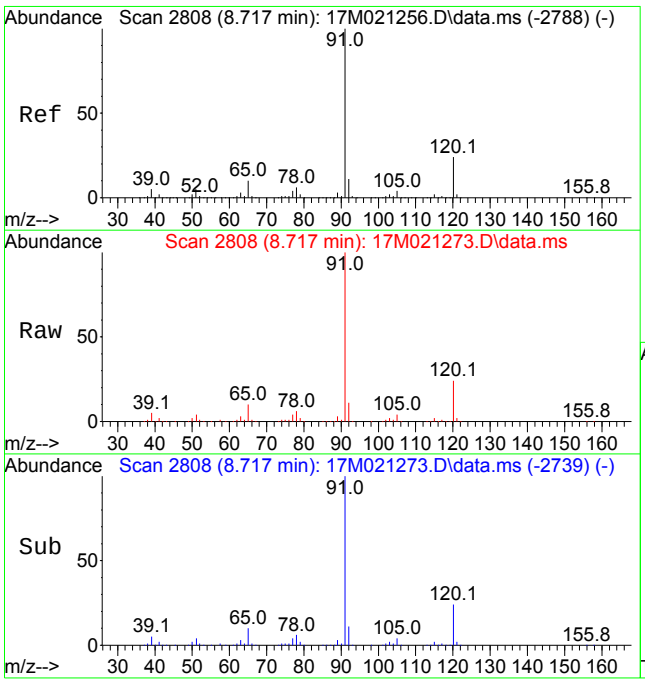


#67
Bromobenzene
Concen: 18.2778 ug/L
RT: 8.682 min Scan# 2796
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:156 Resp: 99632

Ion	Ratio	Lower	Upper
156	100		
158	98.3	78.4	117.6
77	135.5	108.0	162.0

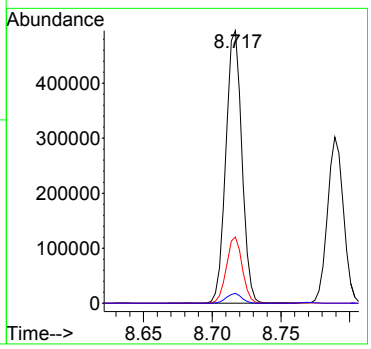


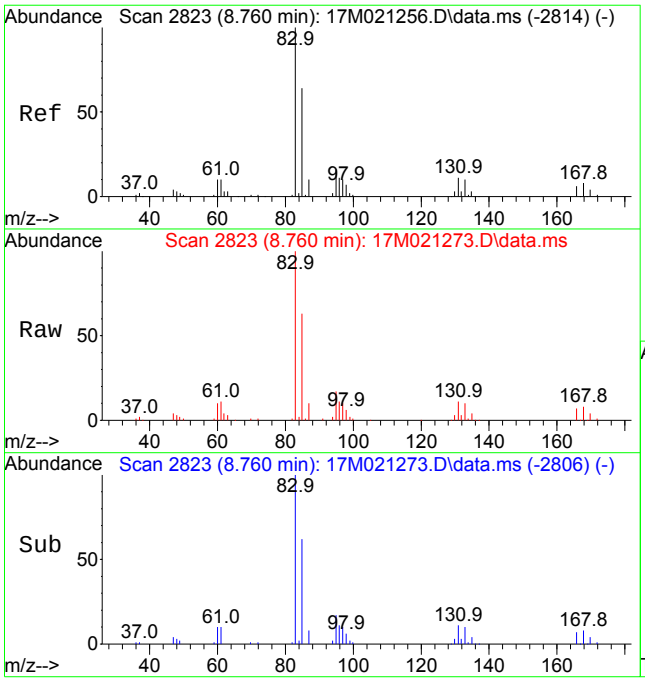


#68
n-Propylbenzene
Concen: 18.8145 ug/L
RT: 8.717 min Scan# 2808
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 91 Resp: 399962

Ion	Ratio	Lower	Upper
91	100		
120	23.9	14.3	33.5
105	3.5	2.1	4.9

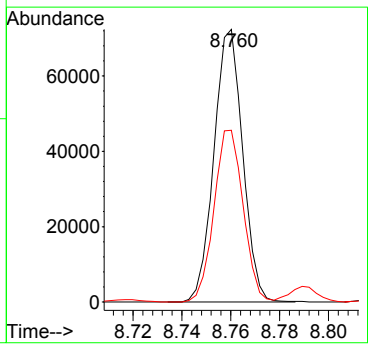


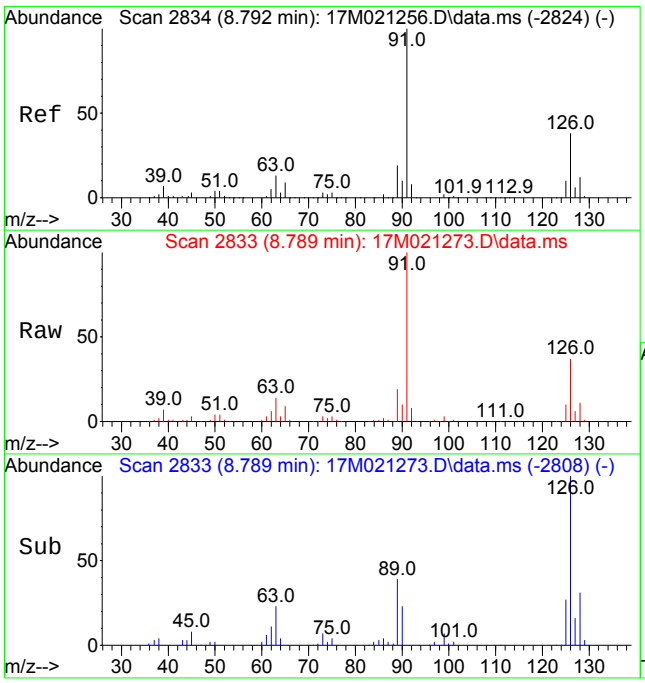


#69
1,1,2,2-Tetrachloroethane
Concen: 26.2956 ug/L
RT: 8.760 min Scan# 2823
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 83 Resp: 59397

Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.8	77.6

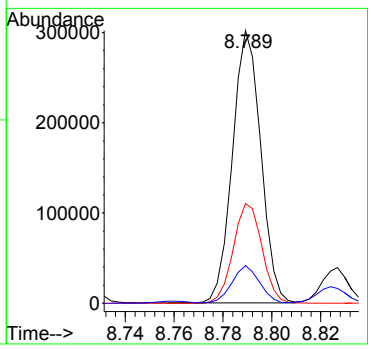


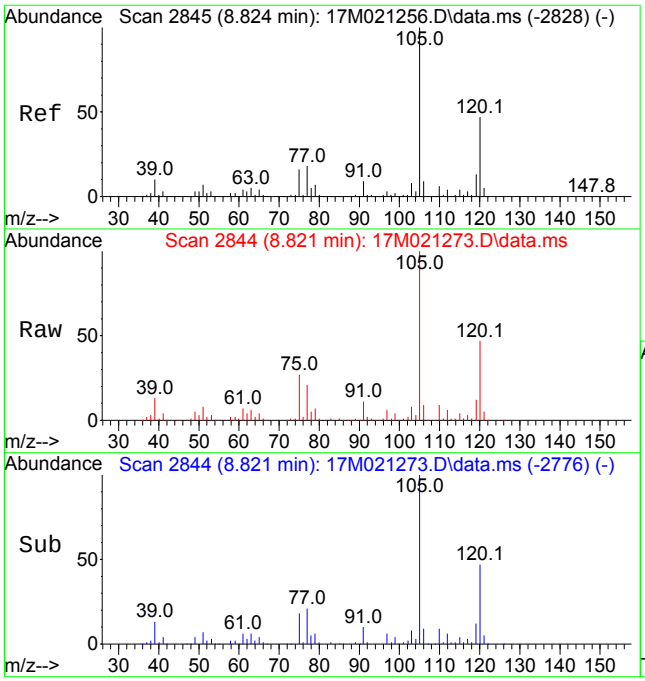


#70
2-Chlorotoluene
Concen: 18.5563 ug/L
RT: 8.789 min Scan# 2833
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 91 Resp: 243326

Ion	Ratio	Lower	Upper
91	100		
126	37.0	22.1	51.5
63	13.4	8.2	19.0

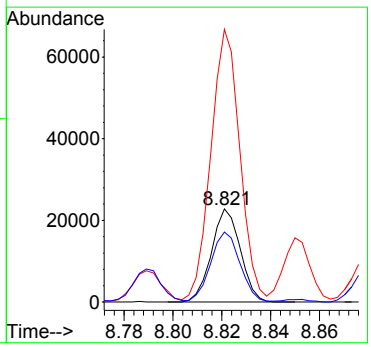


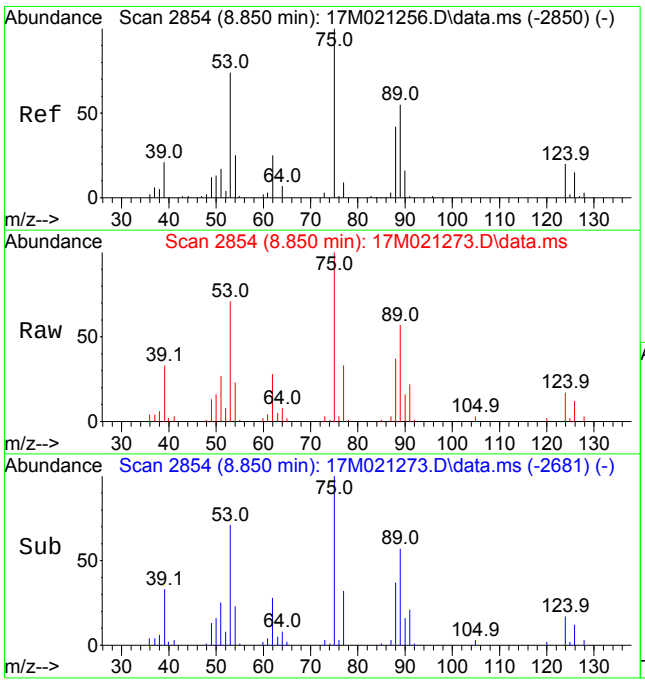


#71
1,2,3-Trichloropropane
Concen: 21.0246 ug/L
RT: 8.821 min Scan# 2844
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:110 Resp: 18683

Ion	Ratio	Lower	Upper
110	100		
75	295.8	239.0	358.6
61	73.8	63.0	94.4

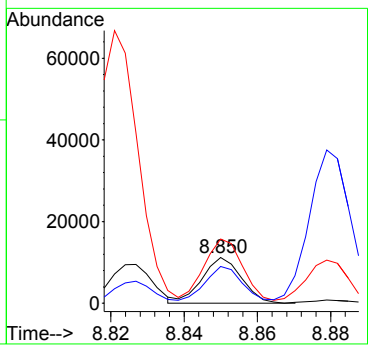


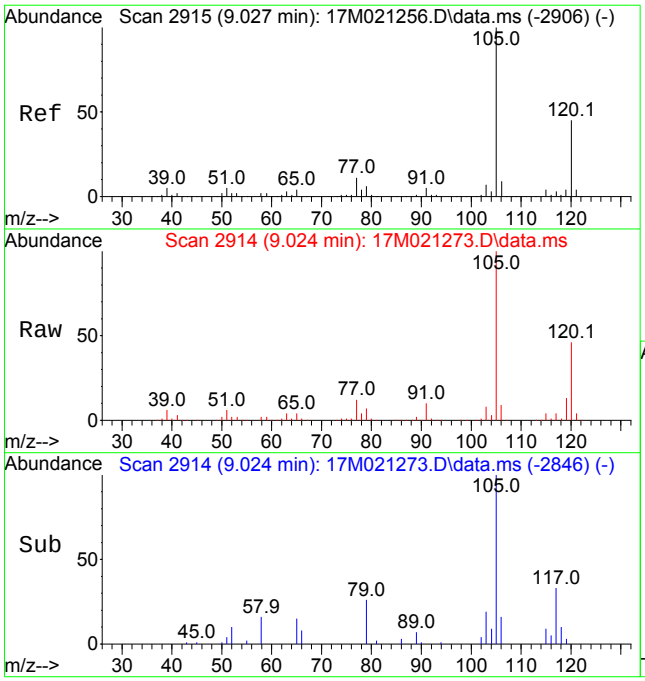


#72
trans-1,4-Dichloro-2-Butene
Concen: 19.5124 ug/L
RT: 8.850 min Scan# 2854
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 53 Resp: 8454

Ion	Ratio	Lower	Upper
53	100		
75	134.6	142.1	142.1#
89	80.2	62.3	93.5

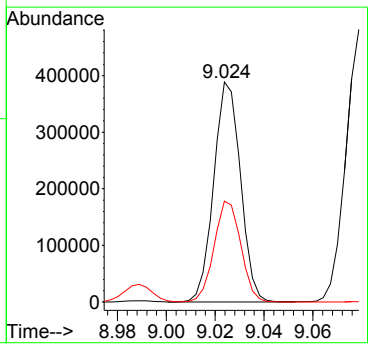


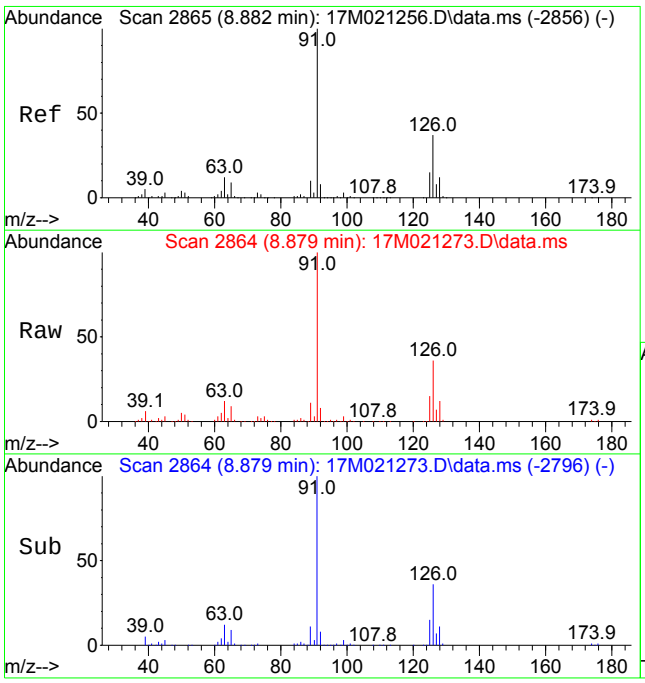


#73
1,2,4-Trimethylbenzene
Concen: 18.5923 ug/L
RT: 9.024 min Scan# 2914
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:105 Resp: 296592

Ion	Ratio	Lower	Upper
105	100		
120	45.7	36.6	54.8

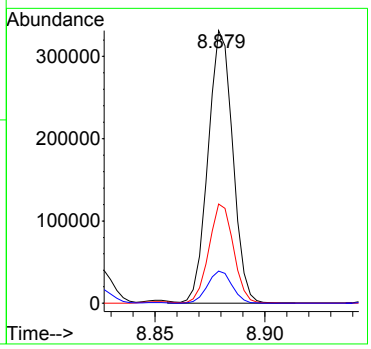


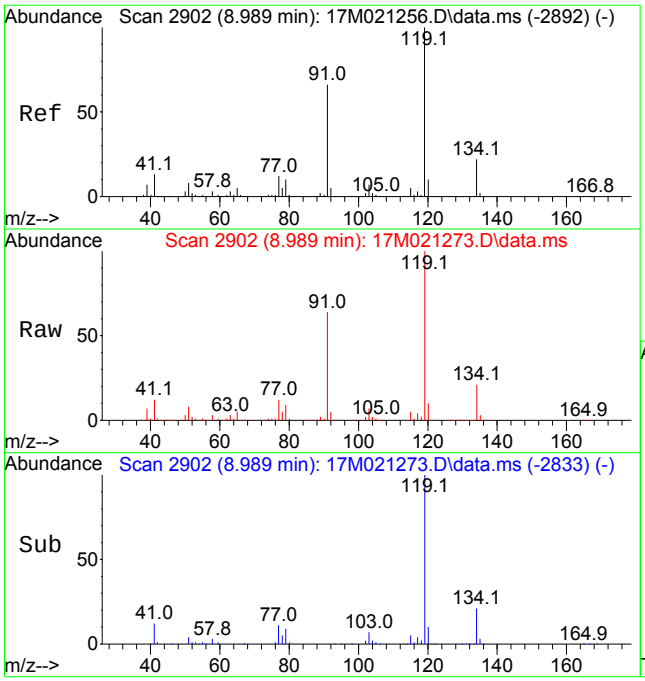


#74
4-Chlorotoluene
Concen: 19.0752 ug/L
RT: 8.879 min Scan# 2864
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 91 Resp: 259313

Ion	Ratio	Lower	Upper
91	100		
126	36.9	22.3	51.9
63	11.8	7.2	16.8

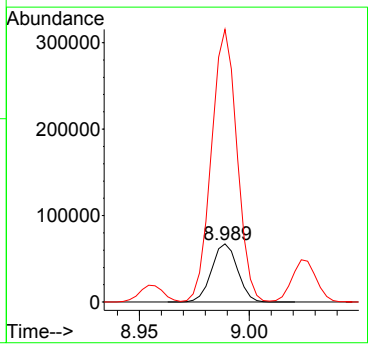


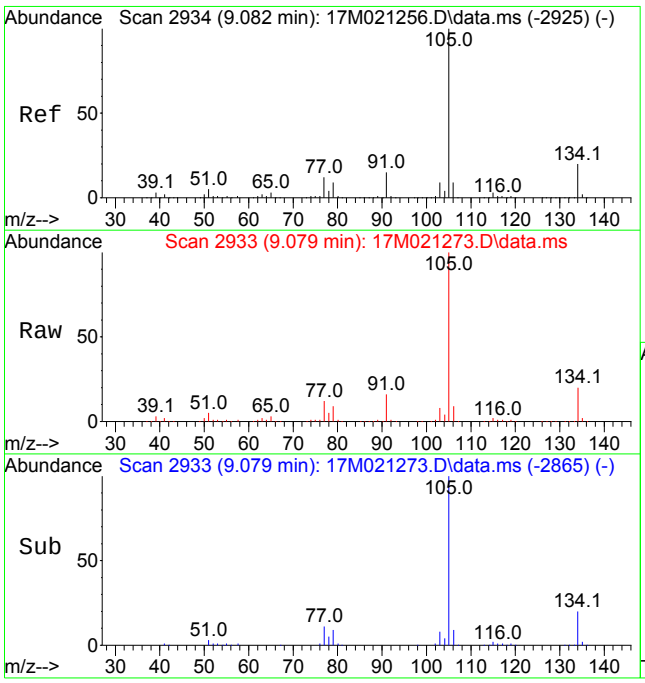


#75
tert-Butylbenzene
Concen: 18.3932 ug/L
RT: 8.989 min Scan# 2902
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:134 Resp: 55179

Ion	Ratio	Lower	Upper
134	100		
119	464.1	274.2	639.8

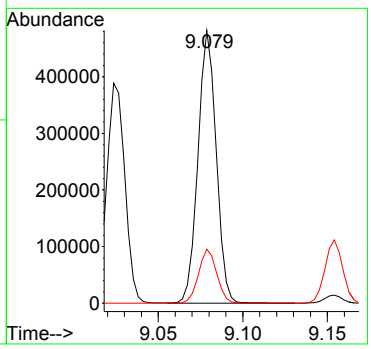


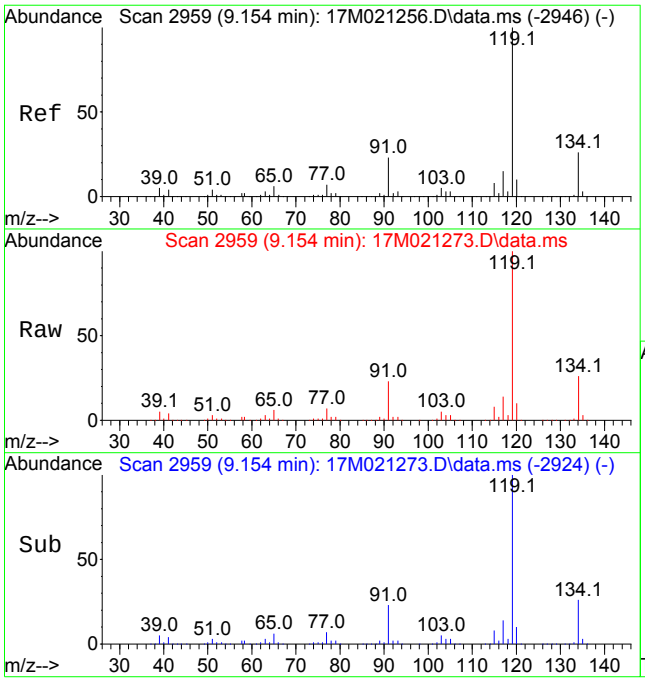


#76
sec-Butylbenzene
Concen: 18.3255 ug/L
RT: 9.079 min Scan# 2933
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:105 Resp: 363159

Ion	Ratio	Lower	Upper
105	100		
134	19.7	11.9	27.9

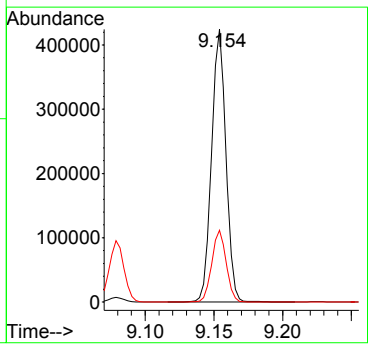


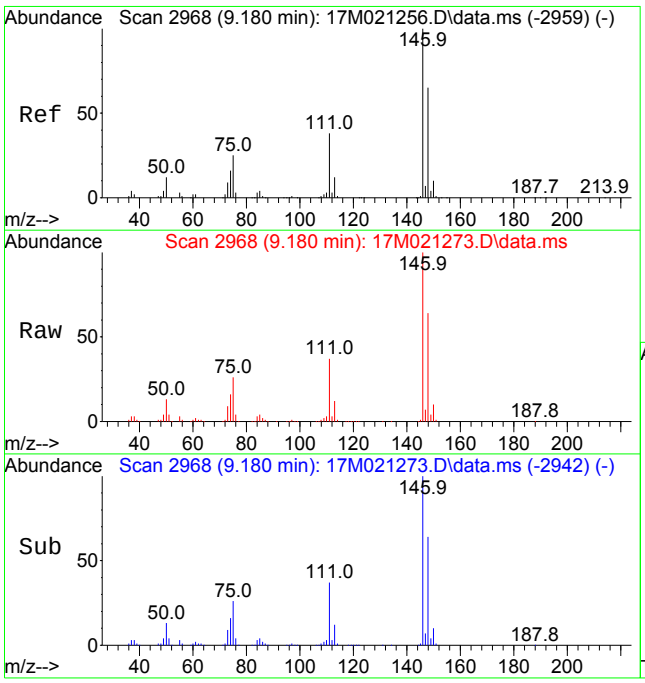


#77
p-Isopropyltoluene
Concen: 18.6966 ug/L
RT: 9.154 min Scan# 2959
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:119 Resp: 308283

Ion	Ratio	Lower	Upper
119	100		
134	26.3	16.0	37.4

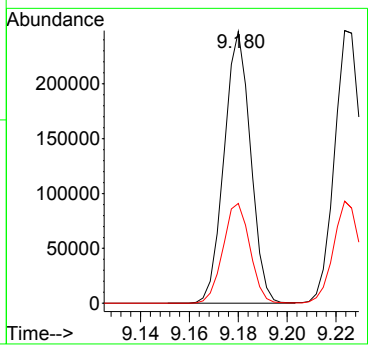


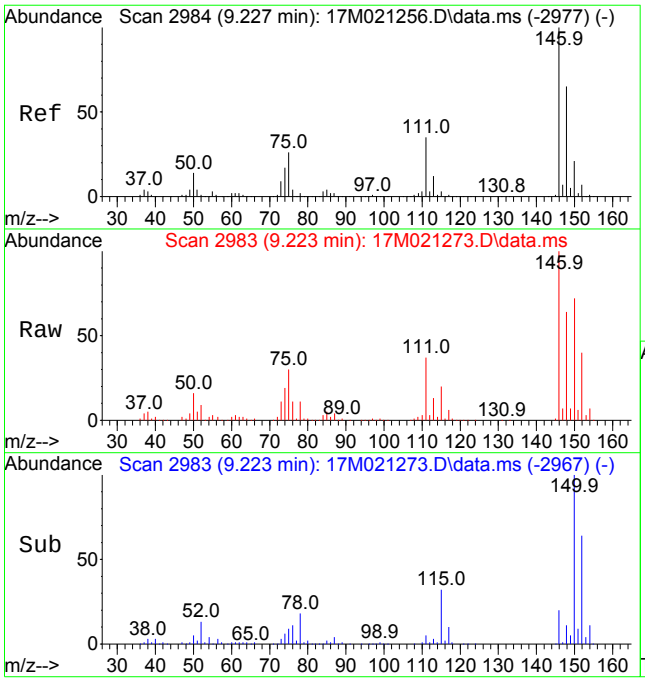


#78
1,3-Dichlorobenzene
Concen: 18.8051 ug/L
RT: 9.180 min Scan# 2968
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:146 Resp: 186387

Ion	Ratio	Lower	Upper
146	100		
111	37.5	22.4	52.2

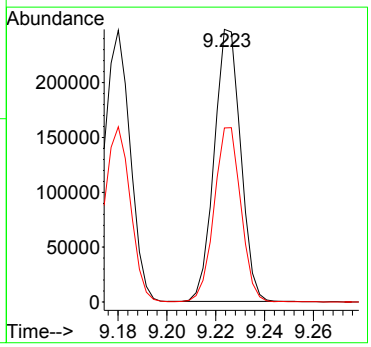


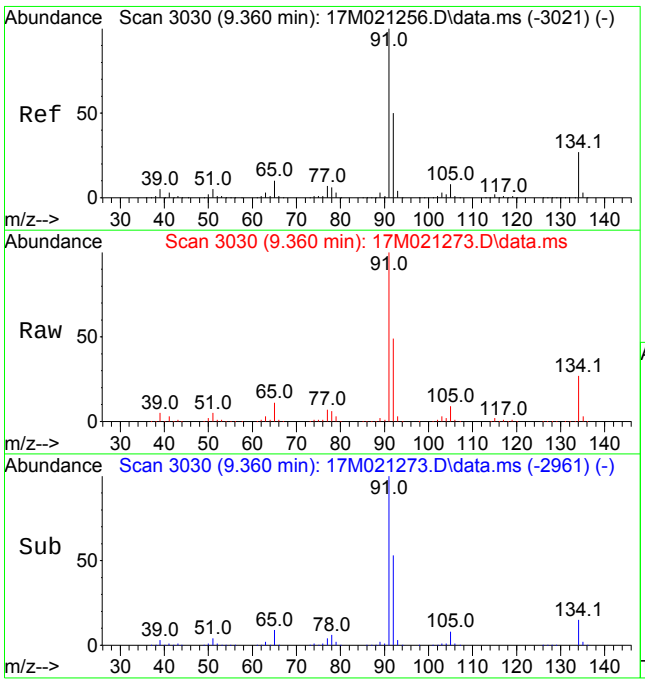


#79
1,4-Dichlorobenzene
Concen: 18.3215 ug/L
RT: 9.223 min Scan# 2983
Delta R.T. -0.004 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:146 Resp: 187391

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.6	77.4

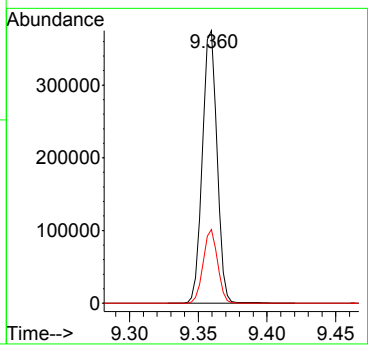


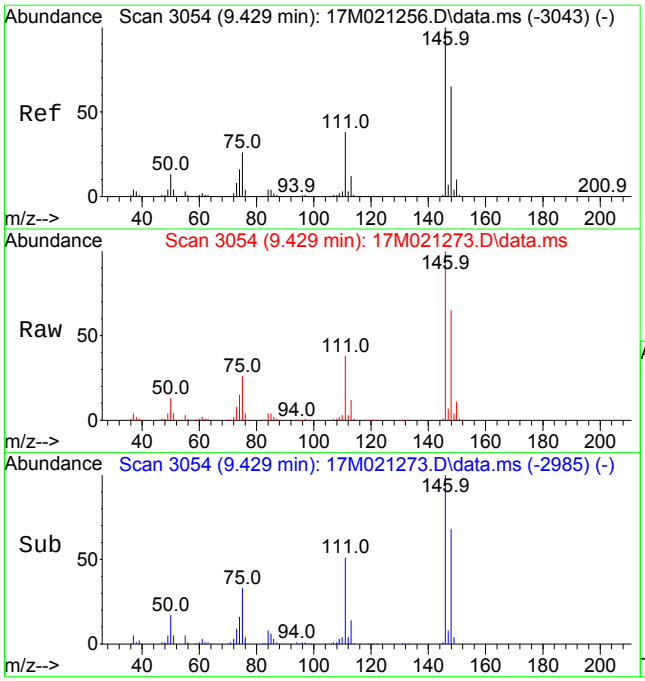


#80
n-Butylbenzene
Concen: 18.1199 ug/L
RT: 9.360 min Scan# 3030
Delta R.T. -0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 91 Resp: 278477

Ion	Ratio	Lower	Upper
91	100		
134	26.5	16.1	37.5

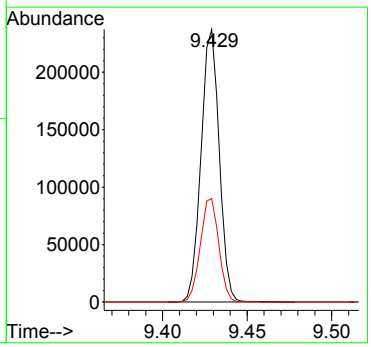


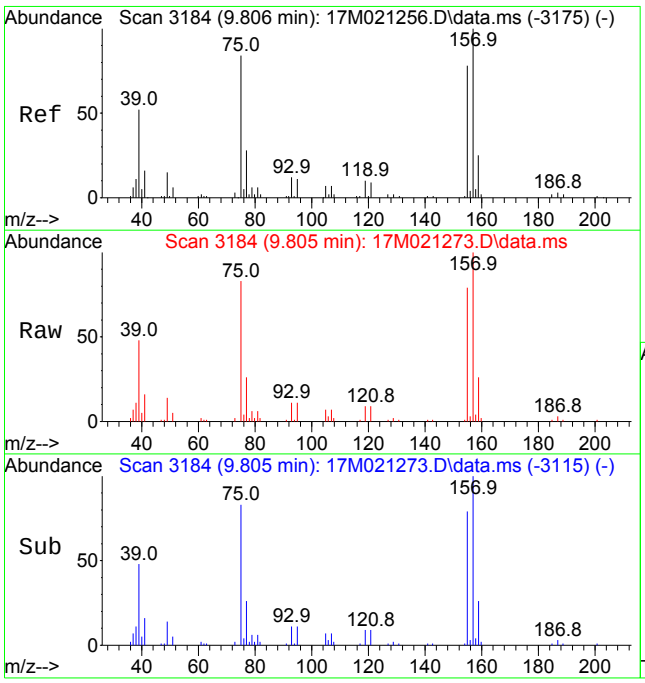


#81
1,2-Dichlorobenzene
Concen: 19.0505 ug/L
RT: 9.429 min Scan# 3054
Delta R.T. 0.000 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:146 Resp: 177002

Ion	Ratio	Lower	Upper
146	100		
111	38.6	23.1	53.9

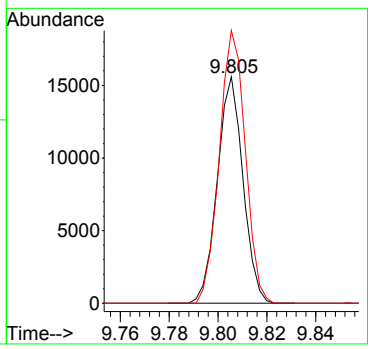


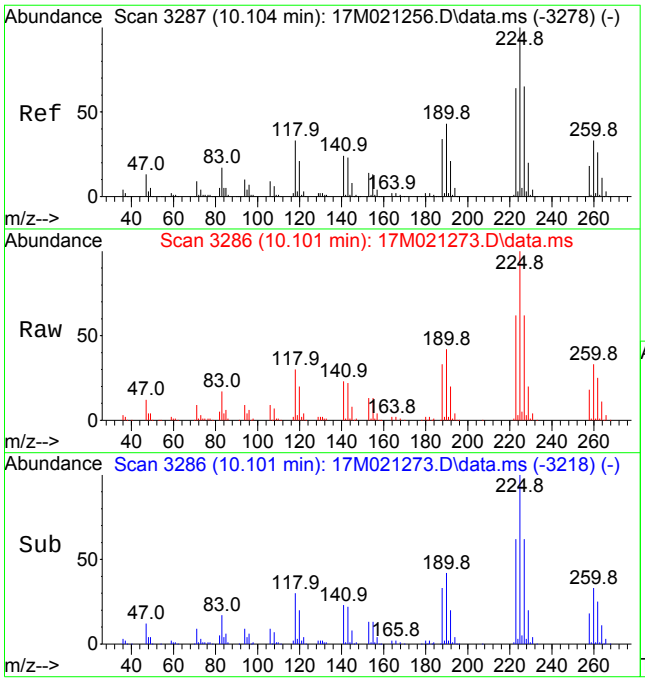


#82
1,2-Dibromo-3-Chloropropane
Concen: 23.8524 ug/L
RT: 9.805 min Scan# 3184
Delta R.T. -0.001 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion: 75 Resp: 11375

Ion	Ratio	Lower	Upper
75	100		
157	122.1	74.8	174.4

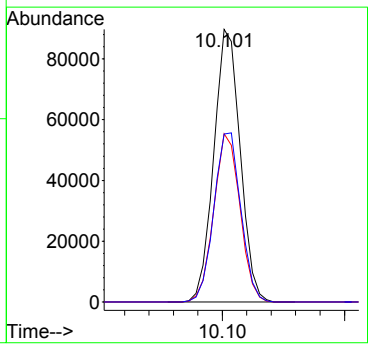


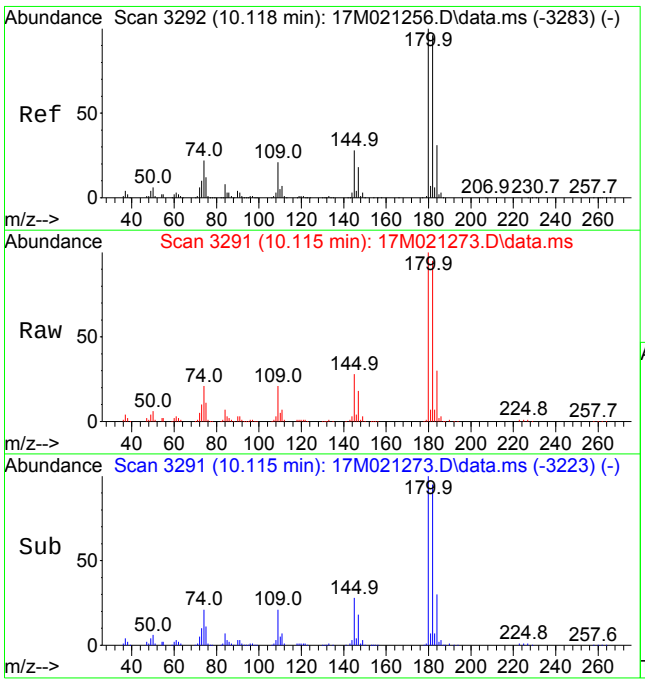


#83
Hexachlorobutadiene
Concen: 18.6623 ug/L
RT: 10.101 min Scan# 3286
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:225 Resp: 67381

Ion	Ratio	Lower	Upper
225	100		
223	61.3	50.1	75.1
227	63.3	51.8	77.8

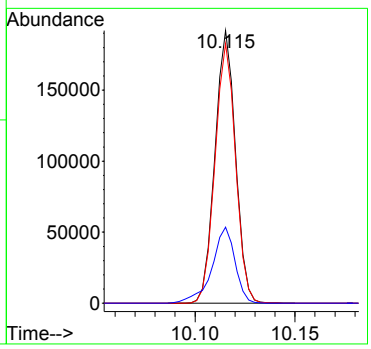


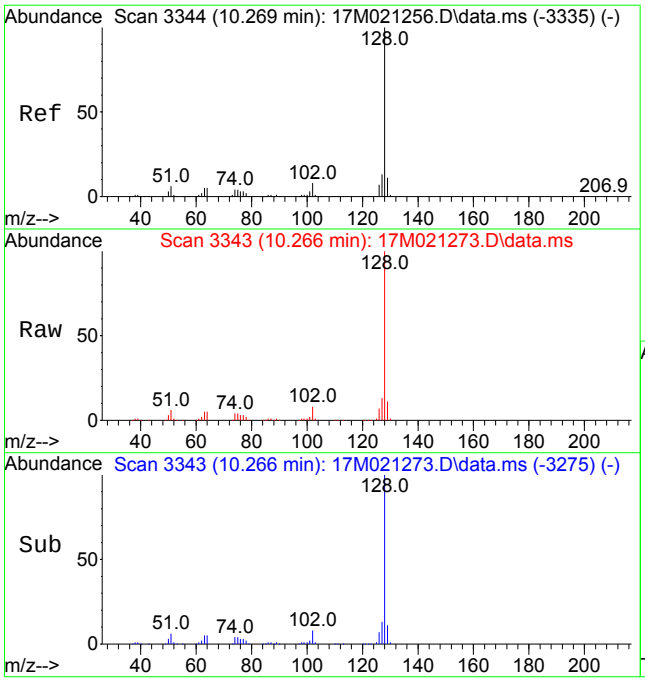


#84
1,2,4-Trichlorobenzene
Concen: 19.9412 ug/L
RT: 10.115 min Scan# 3291
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:180 Resp: 137228

Ion	Ratio	Lower	Upper
180	100		
182	95.1	57.5	134.1
145	31.2	19.4	45.2

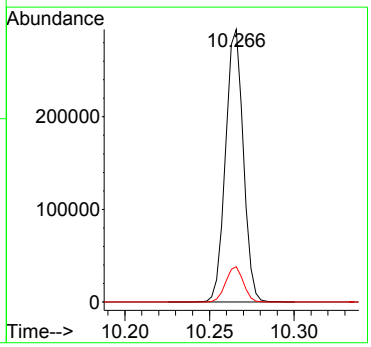


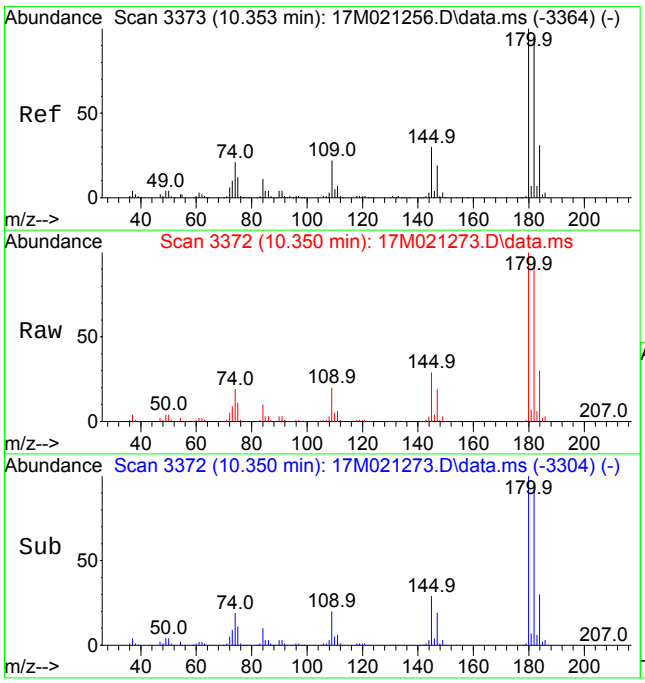


#85
Naphthalene
Concen: 20.4072 ug/L
RT: 10.266 min Scan# 3343
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:128 Resp: 214315

Ion	Ratio	Lower	Upper
128	100		
127	12.9	7.8	18.2

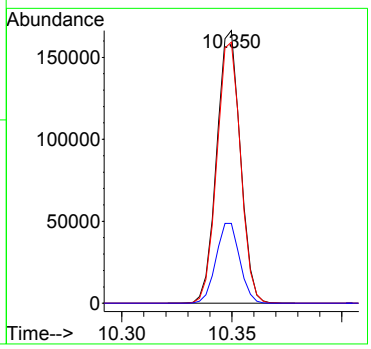




#86
1,2,3-Trichlorobenzene
Concen: 20.5660 ug/L
RT: 10.350 min Scan# 3372
Delta R.T. -0.003 min
Lab File: 17M021273.D
Acq: 20 May 2016 21:47

Tgt Ion:180 Resp: 124102

Ion	Ratio	Lower	Upper
180	100		
182	95.9	57.4	134.0
145	29.5	17.8	41.4



Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021279.D Vial: 25
Acq On : 20 May 2016 23:44 Operator: ADC
Sample : L16050763-04 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:24 2016

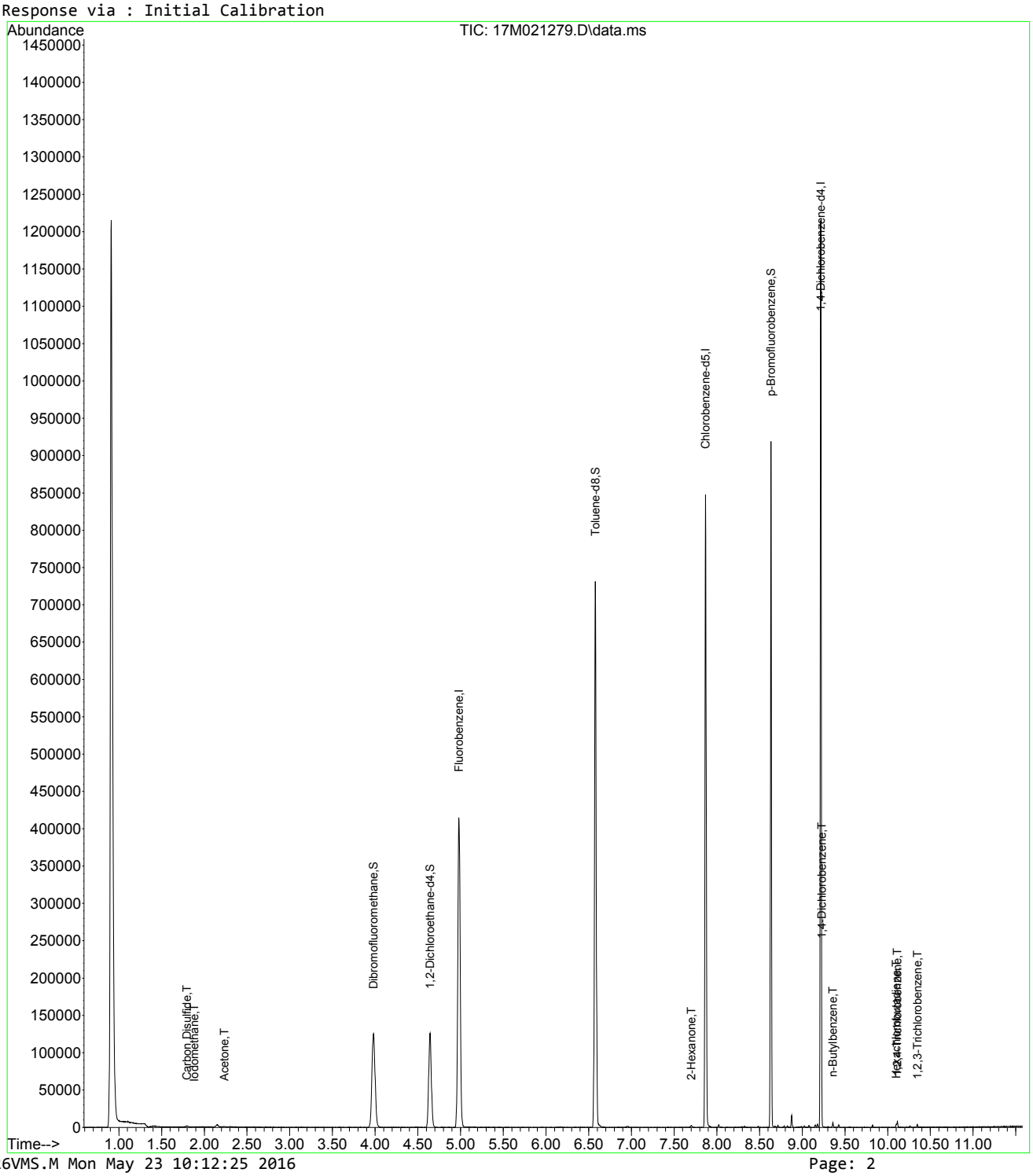
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

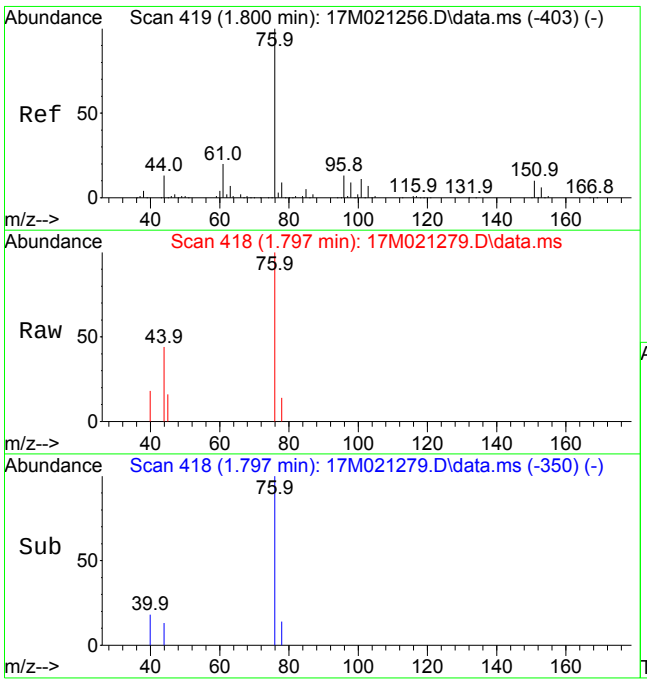
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.979	96	393207	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	296998	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	163147	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.977	111	101989	24.4898 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 97.959%		
34) 1,2-Dichloroethane-d4	4.640	65	101515	26.3626 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 105.450%		
47) Toluene-d8	6.577	98	405911	25.5920 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.368%		
66) p-Bromofluorobenzene	8.633	95	147041	26.0673 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.269%		
Target Compounds					Qvalue
11) Carbon Disulfide	1.797	76	1482	0.1220 ug/L #	73
13) Iodomethane	1.881	142	214	1.1198 ug/L #	34
16) Acetone	2.231	43	734	1.1802 ug/L #	45
54) 2-Hexanone	7.701	43	277	0.1776 ug/L #	26
79) 1,4-Dichlorobenzene	9.227	146	1465	0.1371 ug/L #	73
80) n-Butylbenzene	9.357	91	2137	0.1331 ug/L	94
83) Hexachlorobutadiene	10.101	225	593	0.1572 ug/L	89
84) 1,2,4-Trichlorobenzene	10.112	180	1489	0.2071 ug/L	97
86) 1,2,3-Trichlorobenzene	10.347	180	848	0.1345 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021279.D Vial: 25
Acq On : 20 May 2016 23:44 Operator: ADC
Sample : L16050763-04 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:24 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

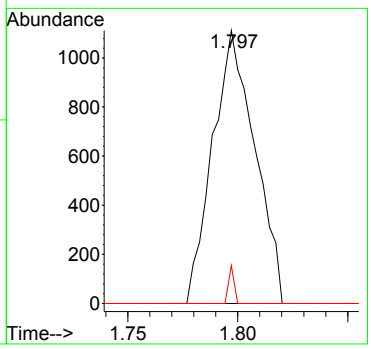


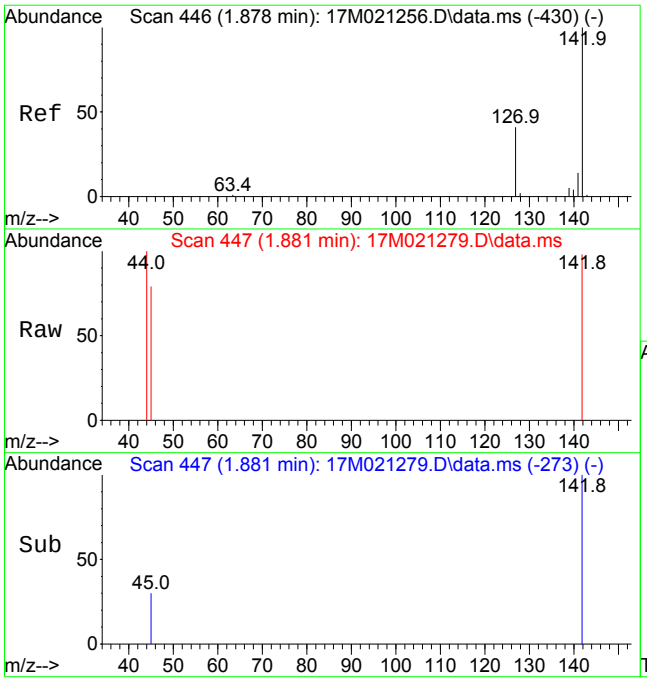


#11
Carbon Disulfide
Concen: 0.1220 ug/L
RT: 1.797 min Scan# 418
Delta R.T. -0.003 min
Lab File: 17M021279.D
Acq: 20 May 2016 23:44

Tgt Ion: 76 Resp: 1482

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.9	11.9#

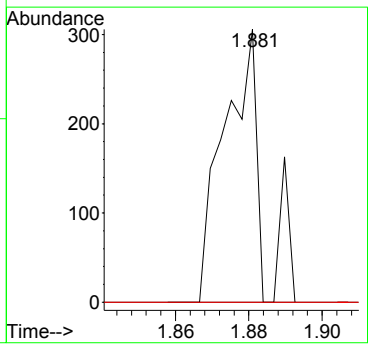


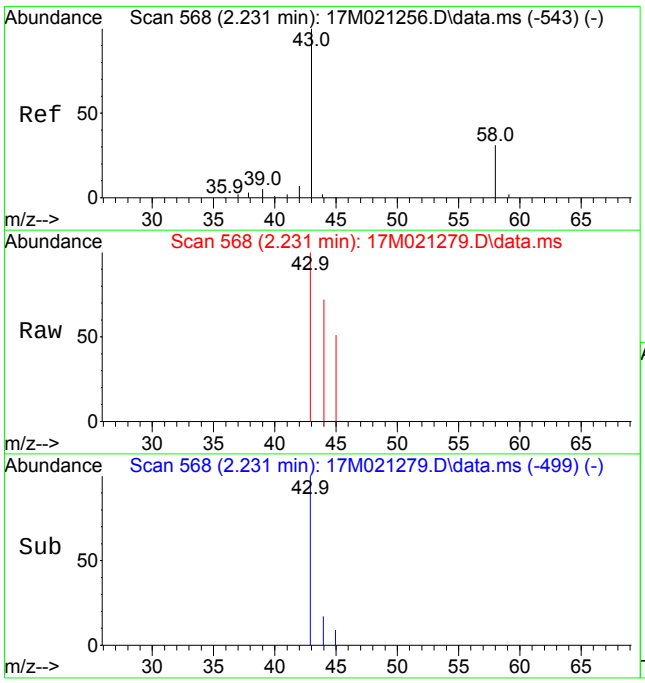


#13
Iodomethane
Concen: 1.1198 ug/L
RT: 1.881 min Scan# 447
Delta R.T. 0.003 min
Lab File: 17M021279.D
Acq: 20 May 2016 23:44

Tgt Ion:142 Resp: 214

Ion	Ratio	Lower	Upper
142	100		
127	0.0	33.3	49.9#

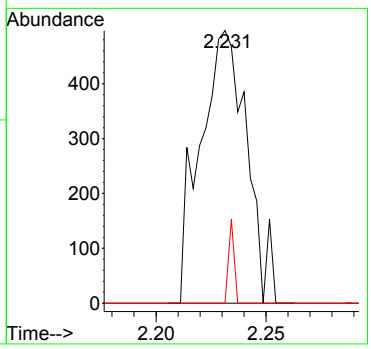


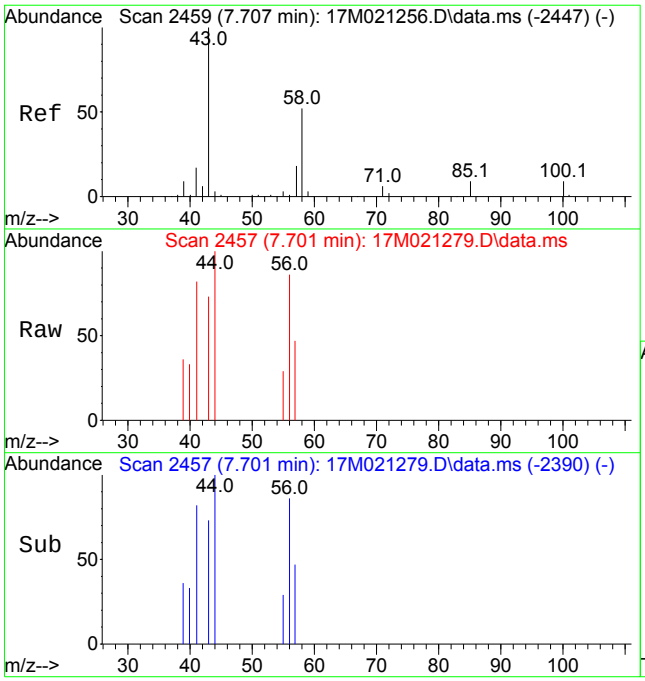


#16
Acetone
Concen: 1.1802 ug/L
RT: 2.231 min Scan# 568
Delta R.T. 0.000 min
Lab File: 17M021279.D
Acq: 20 May 2016 23:44

Tgt Ion: 43 Resp: 734

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.6	41.2#

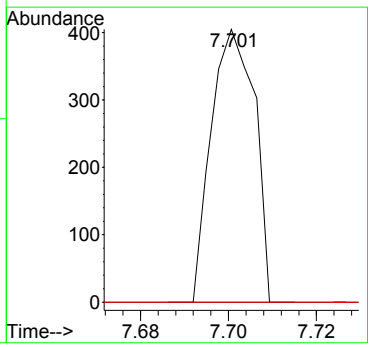


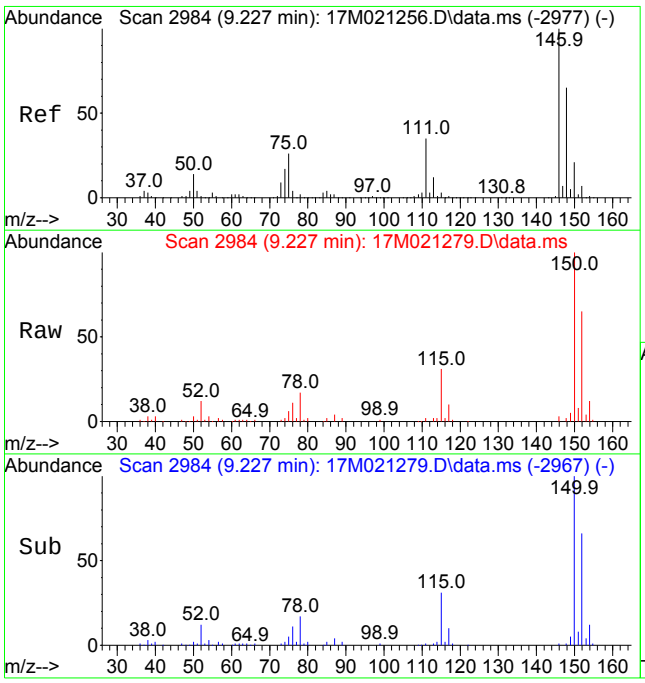


#54
2-Hexanone
Concen: 0.1776 ug/L
RT: 7.701 min Scan# 2457
Delta R.T. -0.006 min
Lab File: 17M021279.D
Acq: 20 May 2016 23:44

Tgt Ion: 43 Resp: 277

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.4	62.2#

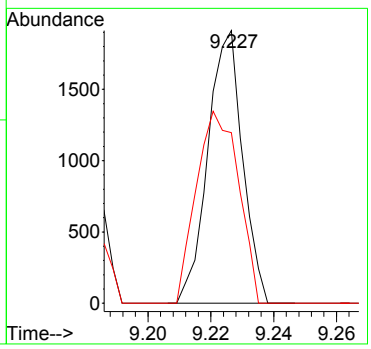


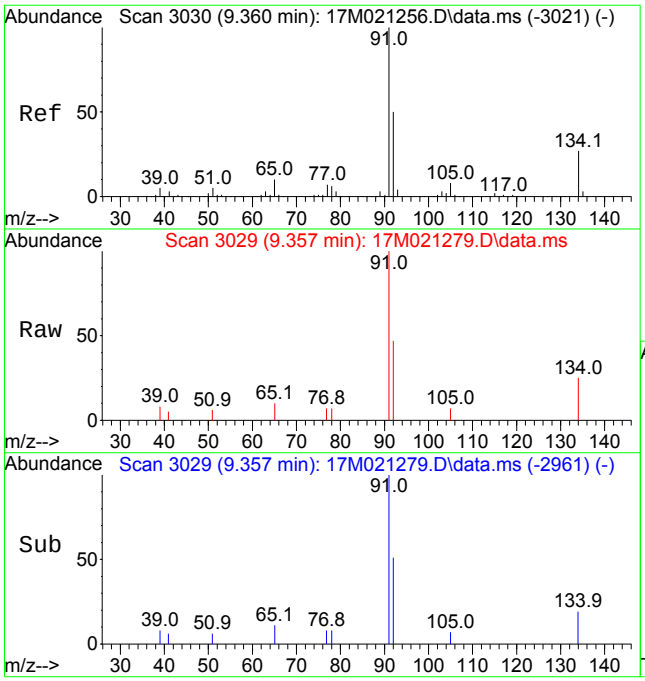


#79
1,4-Dichlorobenzene
Concen: 0.1371 ug/L
RT: 9.227 min Scan# 2984
Delta R.T. -0.000 min
Lab File: 17M021279.D
Acq: 20 May 2016 23:44

Tgt Ion:146 Resp: 1465

Ion	Ratio	Lower	Upper
146	100		
148	85.7	51.6	77.4#

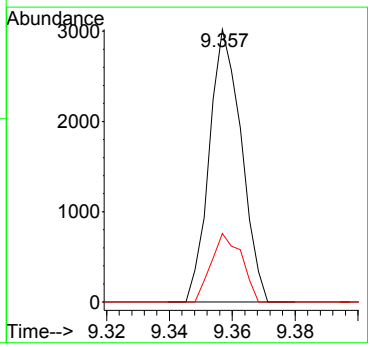


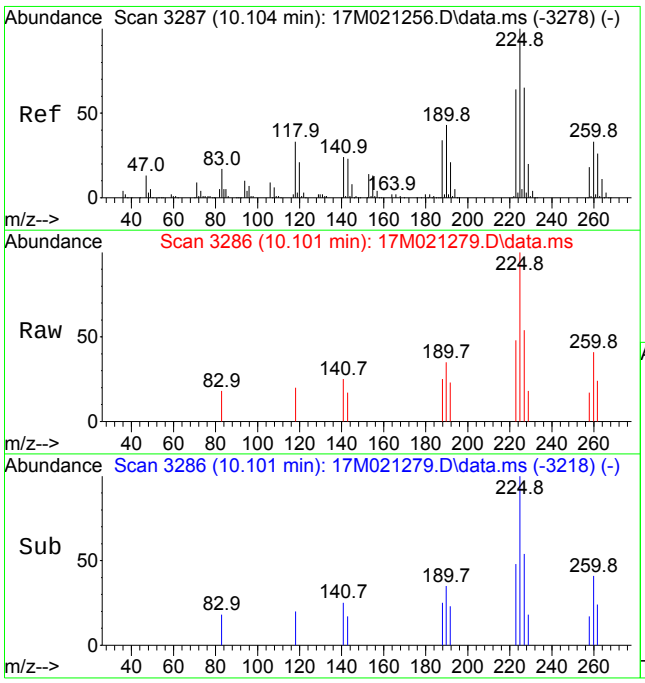


#80
n-Butylbenzene
Concen: 0.1331 ug/L
RT: 9.357 min Scan# 3029
Delta R.T. -0.003 min
Lab File: 17M021279.D
Acq: 20 May 2016 23:44

Tgt Ion: 91 Resp: 2137

Ion	Ratio	Lower	Upper
91	100		
134	23.7	16.1	37.5

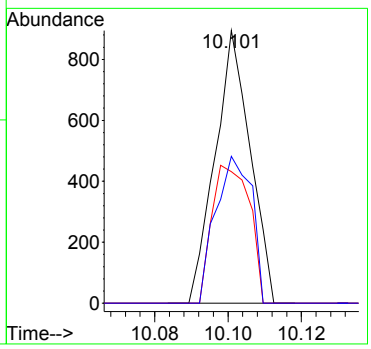


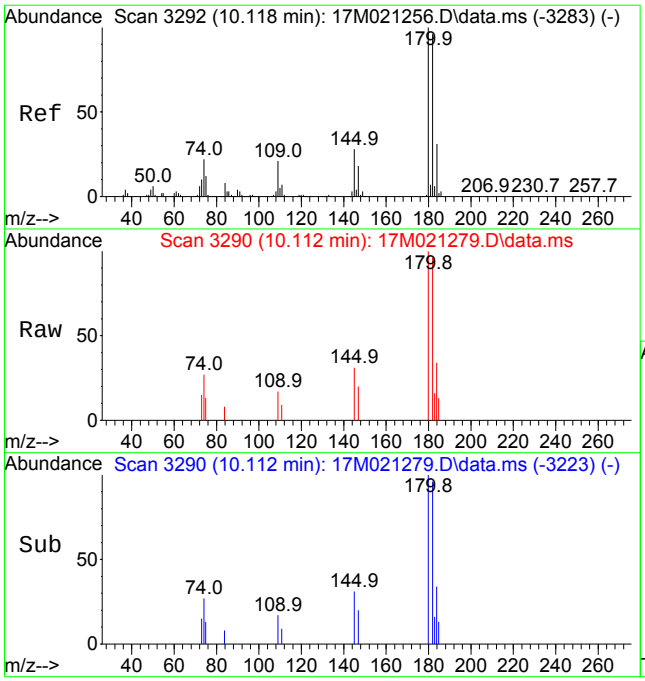


#83
Hexachlorobutadiene
Concen: 0.1572 ug/L
RT: 10.101 min Scan# 3286
Delta R.T. -0.003 min
Lab File: 17M021279.D
Acq: 20 May 2016 23:44

Tgt Ion:225 Resp: 593

Ion	Ratio	Lower	Upper
225	100		
223	54.3	50.1	75.1
227	55.3	51.8	77.8

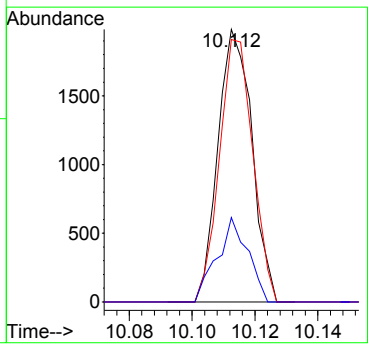


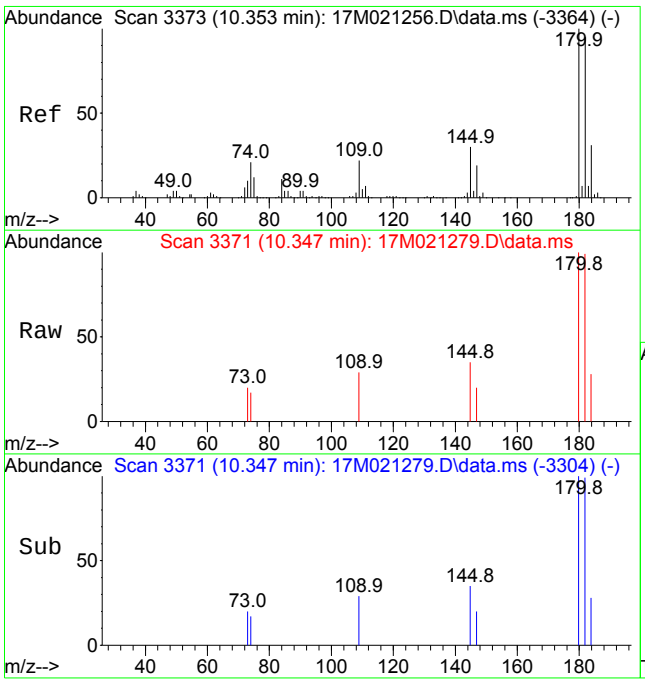


#84
1,2,4-Trichlorobenzene
Concen: 0.2071 ug/L
RT: 10.112 min Scan# 3290
Delta R.T. -0.006 min
Lab File: 17M021279.D
Acq: 20 May 2016 23:44

Tgt Ion:180 Resp: 1489

Ion	Ratio	Lower	Upper
180	100		
182	94.8	57.5	134.1
145	28.1	19.4	45.2

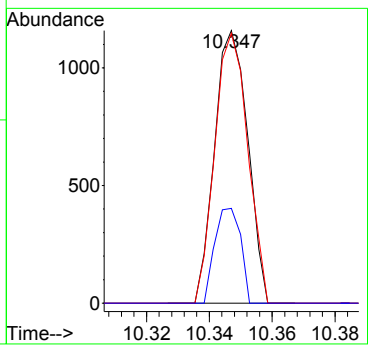




#86
1,2,3-Trichlorobenzene
Concen: 0.1345 ug/L
RT: 10.347 min Scan# 3371
Delta R.T. -0.006 min
Lab File: 17M021279.D
Acq: 20 May 2016 23:44

Tgt Ion:180 Resp: 848

Ion	Ratio	Lower	Upper
180	100		
182	98.3	57.4	134.0
145	27.1	17.8	41.4



Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021280.D Vial: 26
Acq On : 21 May 2016 00:04 Operator: ADC
Sample : L16050763-05 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:28 2016

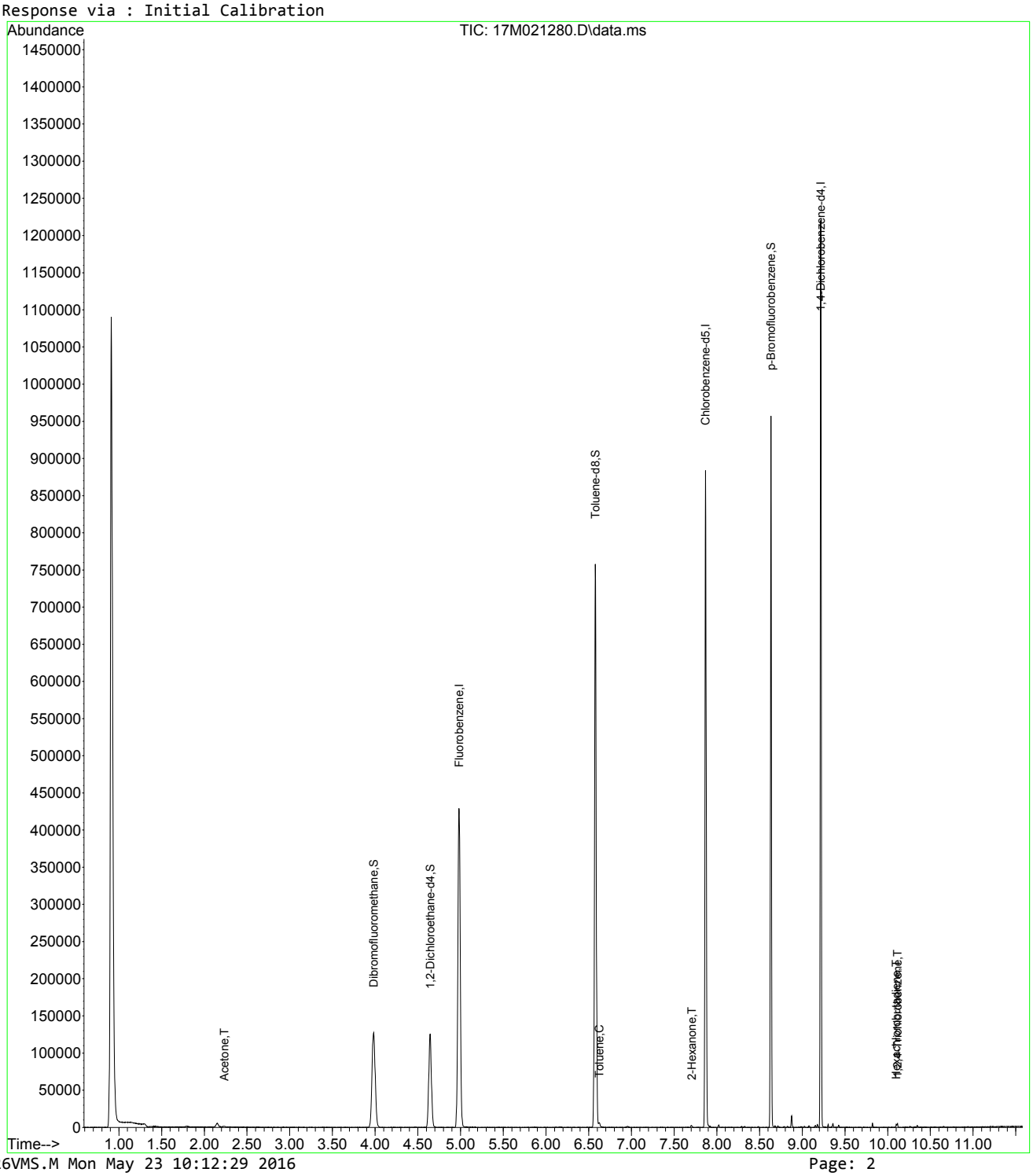
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.985	96	407276	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	305321	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	164776	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.983	111	104485	24.2225 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 96.890%		
34) 1,2-Dichloroethane-d4	4.646	65	101913	25.5517 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 102.207%		
47) Toluene-d8	6.577	98	422038	25.8834 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.534%		
66) p-Bromofluorobenzene	8.633	95	153577	26.9568 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 107.827%		
Target Compounds					Qvalue
16) Acetone	2.231	43	1248	1.9374 ug/L	86
48) Toluene	6.624	91	3300	0.1700 ug/L	98
54) 2-Hexanone	7.706	43	333	0.2076 ug/L #	26
83) Hexachlorobutadiene	10.101	225	503	0.1320 ug/L #	86
84) 1,2,4-Trichlorobenzene	10.115	180	1030	0.1419 ug/L	95

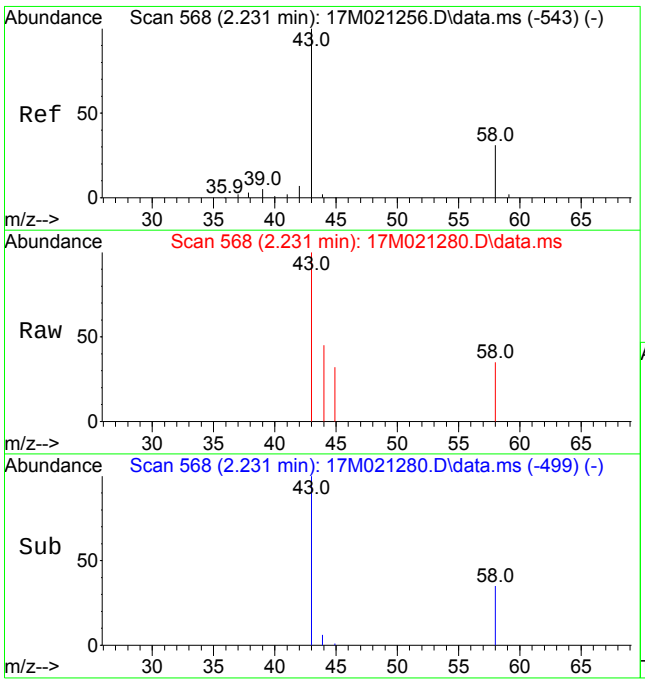
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021280.D Vial: 26
Acq On : 21 May 2016 00:04 Operator: ADC
Sample : L16050763-05 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:28 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



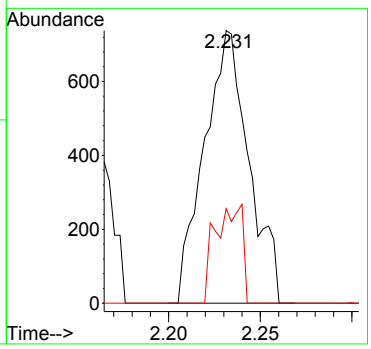
826VMS.M Mon May 23 10:12:29 2016 Page: 2

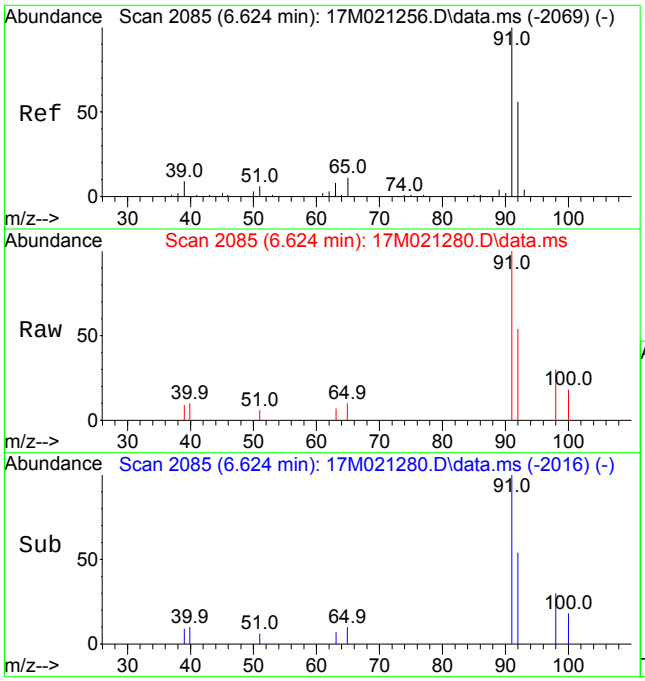


#16
Acetone
Concen: 1.9374 ug/L
RT: 2.231 min Scan# 568
Delta R.T. 0.000 min
Lab File: 17M021280.D
Acq: 21 May 2016 00:04

Tgt Ion: 43 Resp: 1248

Ion	Ratio	Lower	Upper
43	100		
58	22.0	17.6	41.2

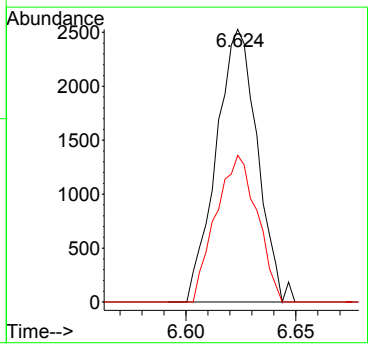


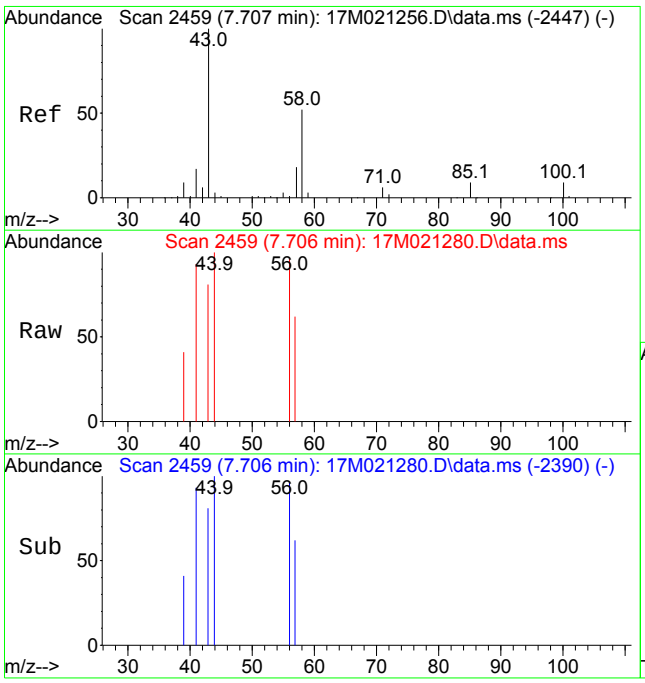


#48
Toluene
Concen: 0.1700 ug/L
RT: 6.624 min Scan# 2085
Delta R.T. -0.000 min
Lab File: 17M021280.D
Acq: 21 May 2016 00:04

Tgt Ion: 91 Resp: 3300

Ion	Ratio	Lower	Upper
91	100		
92	53.9	33.4	78.0

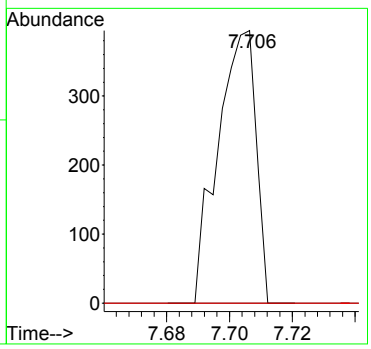


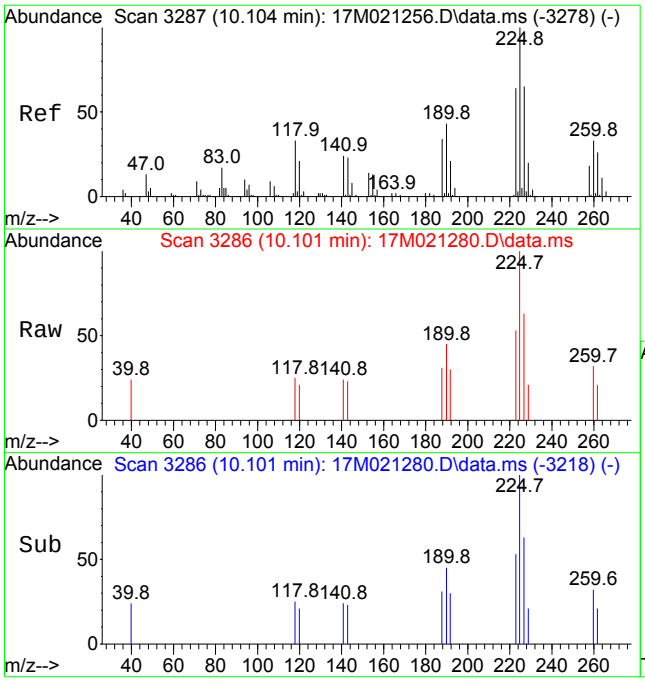


#54
2-Hexanone
Concen: 0.2076 ug/L
RT: 7.706 min Scan# 2459
Delta R.T. -0.001 min
Lab File: 17M021280.D
Acq: 21 May 2016 00:04

Tgt Ion: 43 Resp: 333

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.4	62.2#

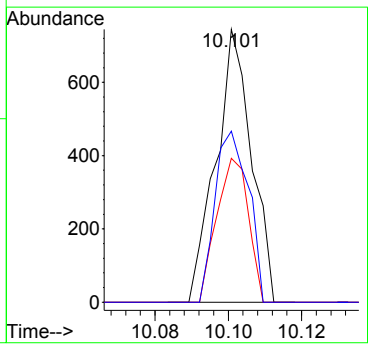


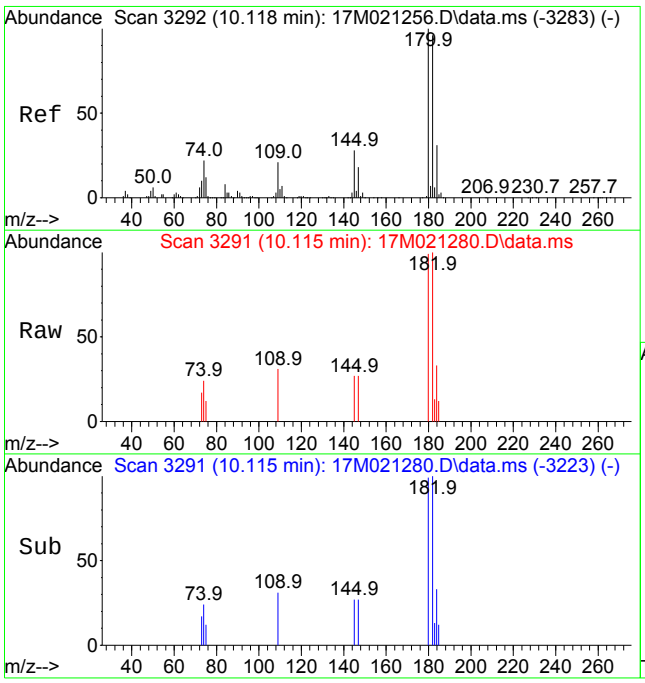


#83
Hexachlorobutadiene
Concen: 0.1320 ug/L
RT: 10.101 min Scan# 3286
Delta R.T. -0.003 min
Lab File: 17M021280.D
Acq: 21 May 2016 00:04

Tgt Ion:225 Resp: 503

Ion	Ratio	Lower	Upper
225	100		
223	46.9	50.1	75.1#
227	58.8	51.8	77.8

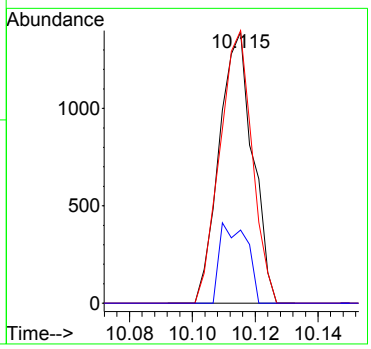




#84
1,2,4-Trichlorobenzene
Concen: 0.1419 ug/L
RT: 10.115 min Scan# 3291
Delta R.T. -0.003 min
Lab File: 17M021280.D
Acq: 21 May 2016 00:04

Tgt Ion:180 Resp: 1030

Ion	Ratio	Lower	Upper
180	100		
182	96.9	57.5	134.1
145	24.0	19.4	45.2



Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021281.D Vial: 27
Acq On : 21 May 2016 00:24 Operator: ADC
Sample : L16050763-06 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:32 2016

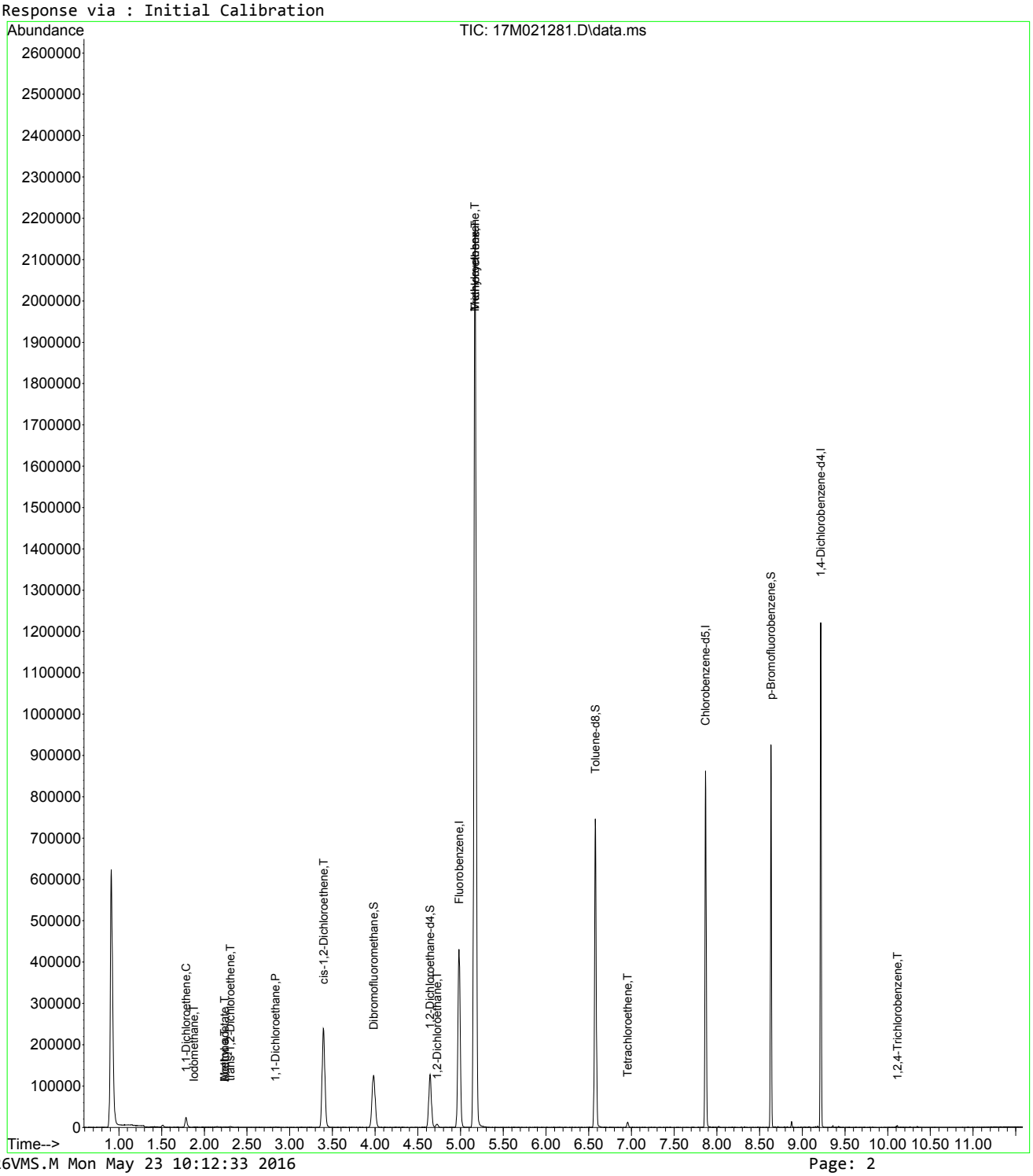
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	403551	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	304640	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	165058	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.983	111	103924	24.3148	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 97.259%			
34) 1,2-Dichloroethane-d4	4.643	65	103769	26.2572	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 105.029%			
47) Toluene-d8	6.577	98	414131	25.4553	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.821%			
66) p-Bromofluorobenzene	8.633	95	149651	26.2228	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.891%			
Target Compounds						Qvalue
10) 1,1-Dichloroethene	1.786	61	10992	1.6711	ug/L	98
13) Iodomethane	1.878	142	119	1.1038	ug/L #	34
16) Acetone	2.234	43	517	0.8100	ug/L #	45
17) trans-1,2-Dichloroethene	2.304	96	583	0.1359	ug/L	83
18) Methyl acetate	2.234	43	517	0.2507	ug/L #	57
20) 1,1-Dichloroethane	2.831	63	1117	0.1390	ug/L	89
23) cis-1,2-Dichloroethene	3.395	96	130205	27.2252	ug/L	99
35) 1,2-Dichloroethane	4.724	62	6674	1.3339	ug/L	98
36) Methylcyclohexane	5.167	83	8623	1.2262	ug/L #	1
37) Trichloroethene	5.170	130	772787	129.3740	ug/L	99
49) Tetrachloroethene	6.957	166	3185	0.5654	ug/L	98
84) 1,2,4-Trichlorobenzene	10.115	180	874	0.1202	ug/L	94

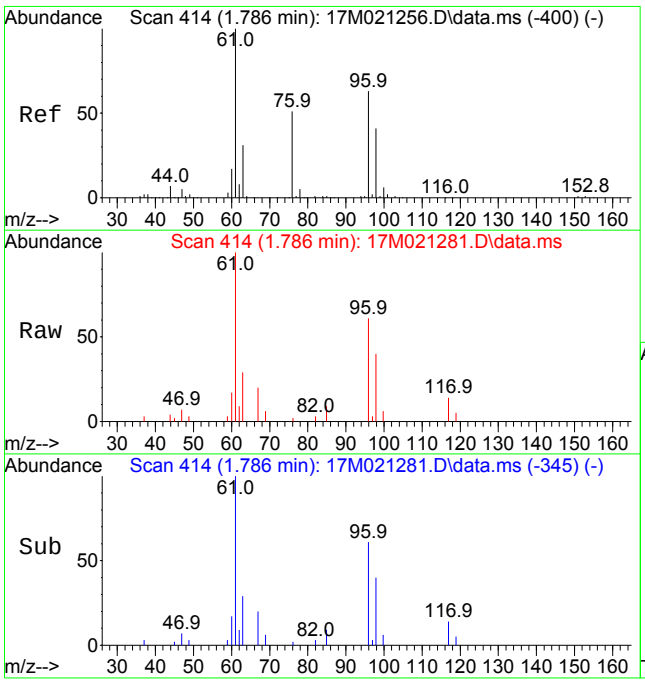
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021281.D Vial: 27
Acq On : 21 May 2016 00:24 Operator: ADC
Sample : L16050763-06 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:32 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



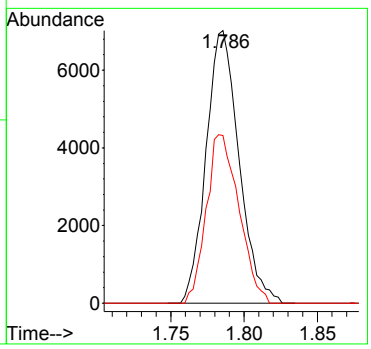
826VMS.M Mon May 23 10:12:33 2016 Page: 2

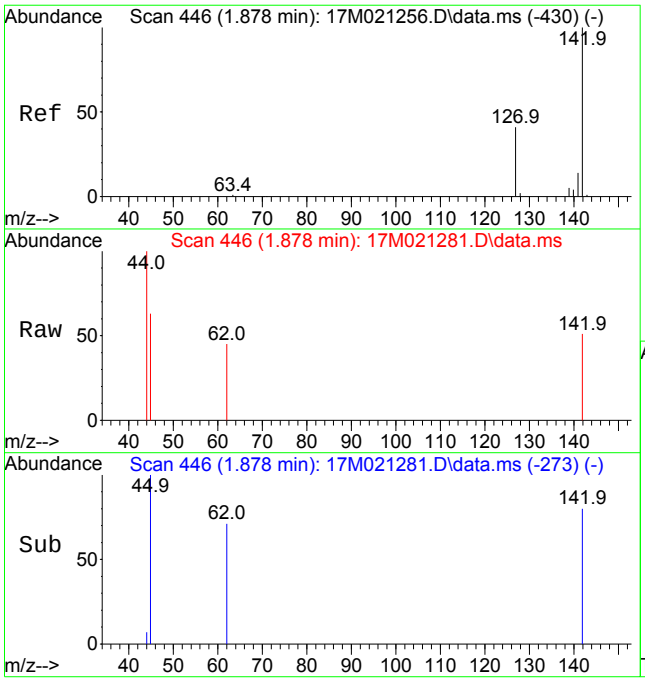


#10
1,1-Dichloroethene
Concen: 1.6711 ug/L
RT: 1.786 min Scan# 414
Delta R.T. -0.000 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion: 61 Resp: 10992

Ion	Ratio	Lower	Upper
61	100		
96	61.2	50.2	75.4

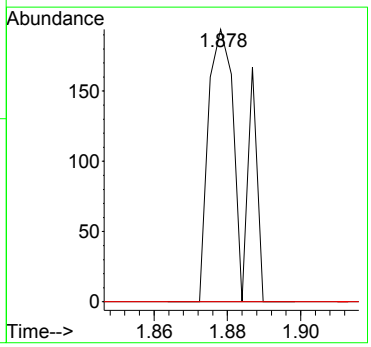


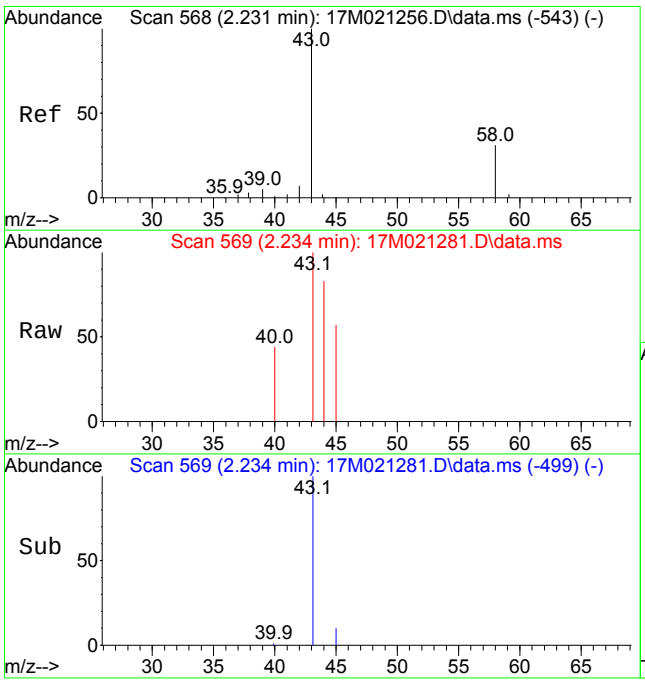


#13
Iodomethane
Concen: 1.1038 ug/L
RT: 1.878 min Scan# 446
Delta R.T. 0.000 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion:142 Resp: 119

Ion	Ratio	Lower	Upper
142	100		
127	0.0	33.3	49.9#

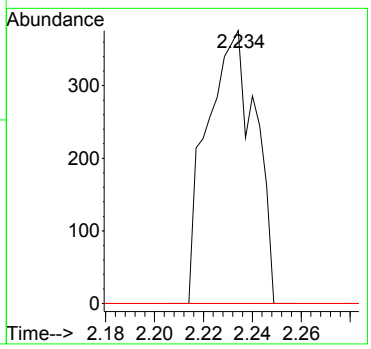


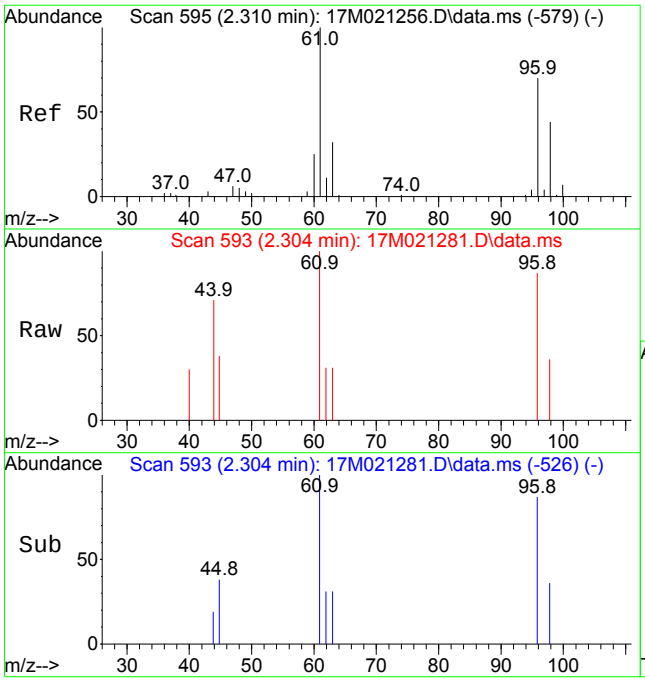


#16
Acetone
Concen: 0.8100 ug/L
RT: 2.234 min Scan# 569
Delta R.T. 0.003 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion: 43 Resp: 517

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.6	41.2#

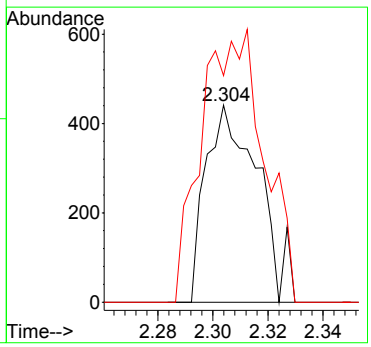


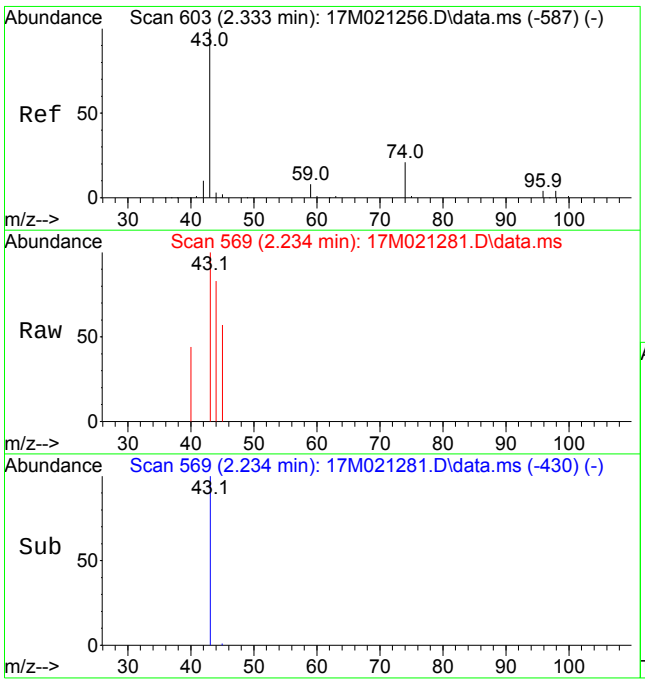


#17
trans-1,2-Dichloroethene
Concen: 0.1359 ug/L
RT: 2.304 min Scan# 593
Delta R.T. -0.006 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion: 96 Resp: 583

Ion	Ratio	Lower	Upper
96	100		
61	164.8	115.4	173.0

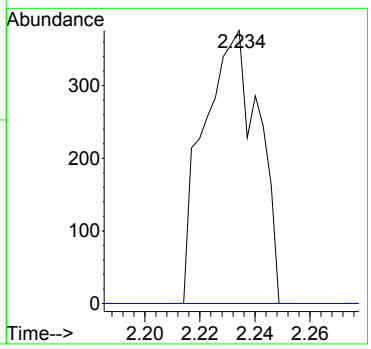


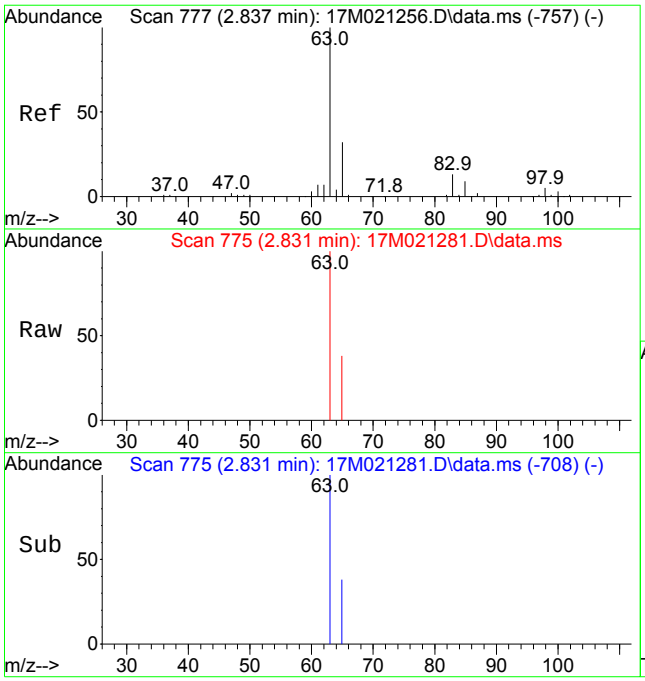


#18
Methyl acetate
Concen: 0.2507 ug/L
RT: 2.234 min Scan# 569
Delta R.T. -0.099 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion: 43 Resp: 517

Ion	Ratio	Lower	Upper
43	100		
74	0.0	21.3	21.3#
59	0.0	13.6	20.4#

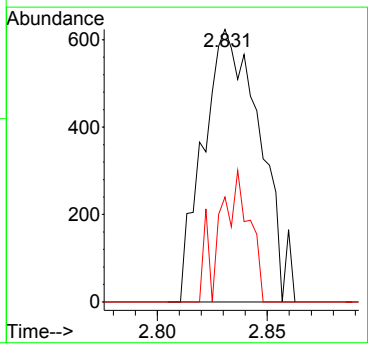


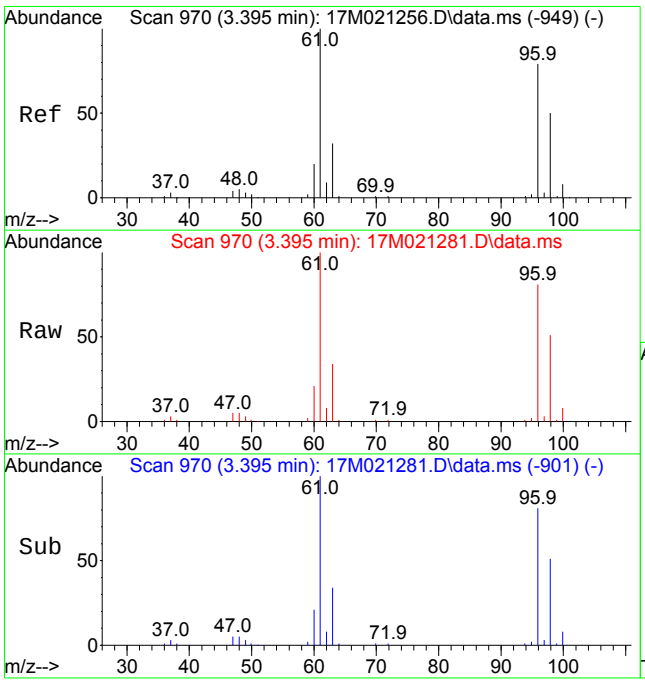


#20
1,1-Dichloroethane
Concen: 0.1390 ug/L
RT: 2.831 min Scan# 775
Delta R.T. -0.006 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion: 63 Resp: 1117

Ion	Ratio	Lower	Upper
63	100		
65	25.7	25.4	38.2

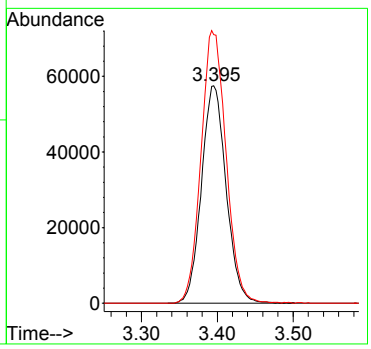


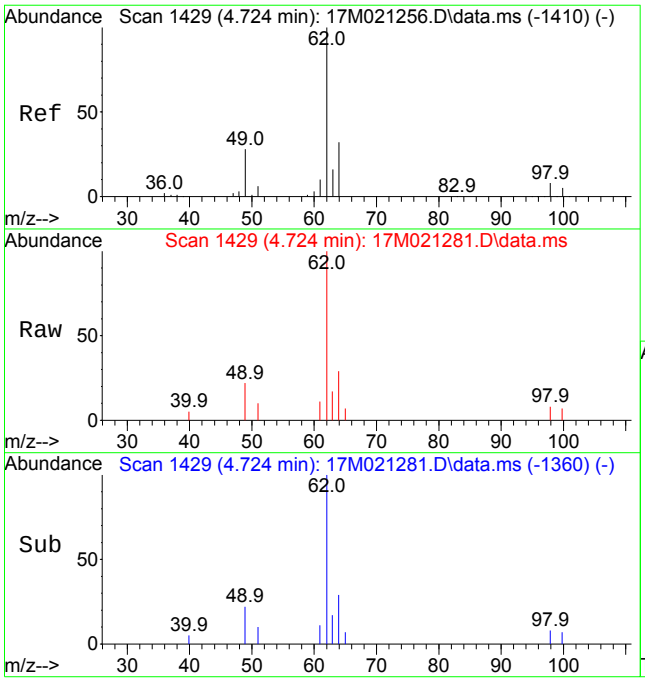


#23
cis-1,2-Dichloroethene
Concen: 27.2252 ug/L
RT: 3.395 min Scan# 970
Delta R.T. 0.000 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion: 96 Resp: 130205

Ion	Ratio	Lower	Upper
96	100		
61	127.2	102.6	154.0

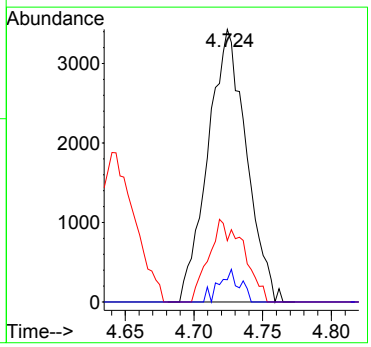


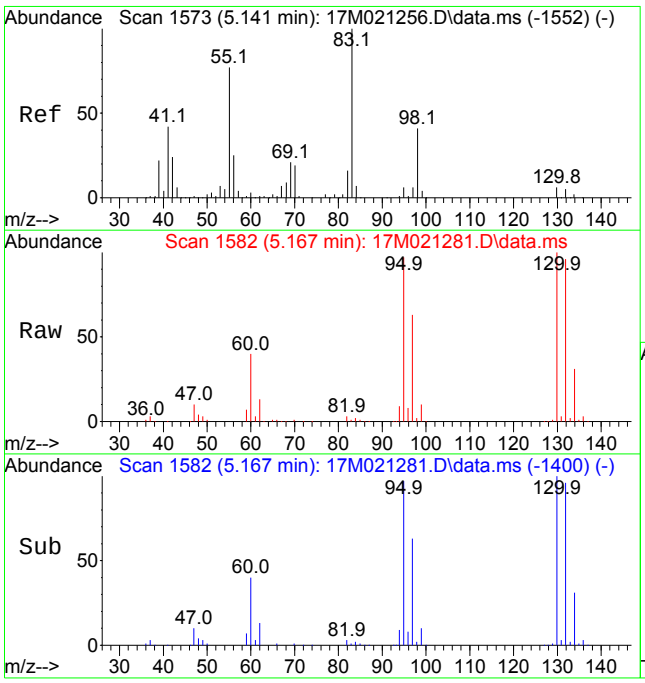


#35
1,2-Dichloroethane
Concen: 1.3339 ug/L
RT: 4.724 min Scan# 1429
Delta R.T. 0.000 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion: 62 Resp: 6674

Ion	Ratio	Lower	Upper
62	100		
49	27.5	16.7	38.9
98	6.4	5.0	11.6

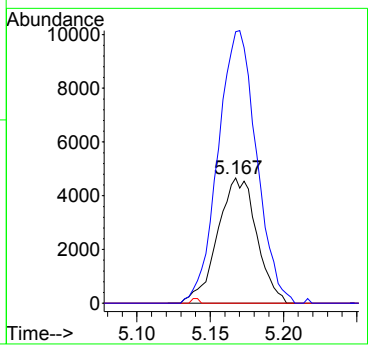


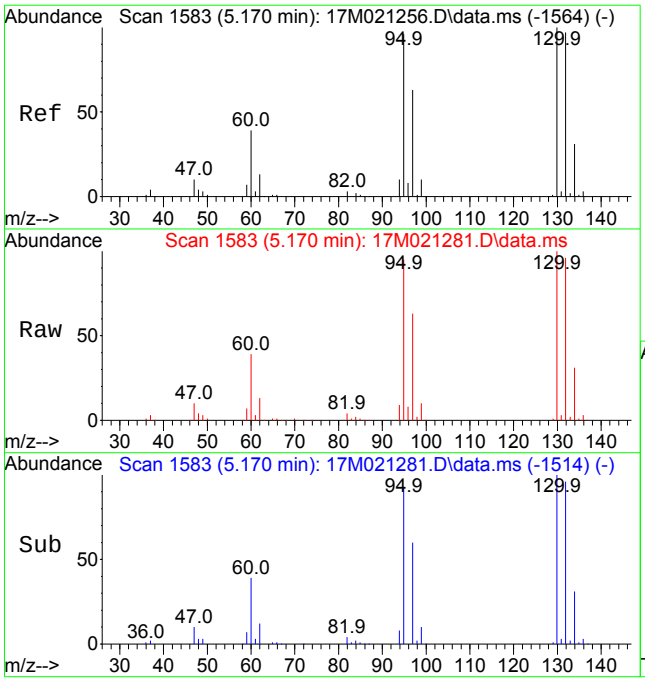


#36
Methylcyclohexane
Concen: 1.2262 ug/L
RT: 5.167 min Scan# 1582
Delta R.T. 0.026 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion: 83 Resp: 8623

Ion	Ratio	Lower	Upper
83	100		
55	0.0	60.5	90.7#
98	214.8	33.4	50.2#

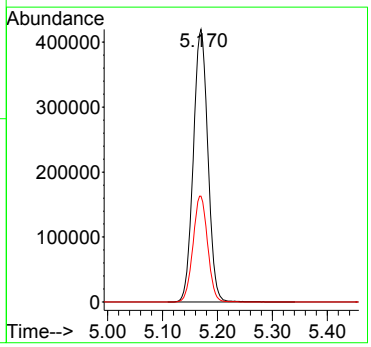


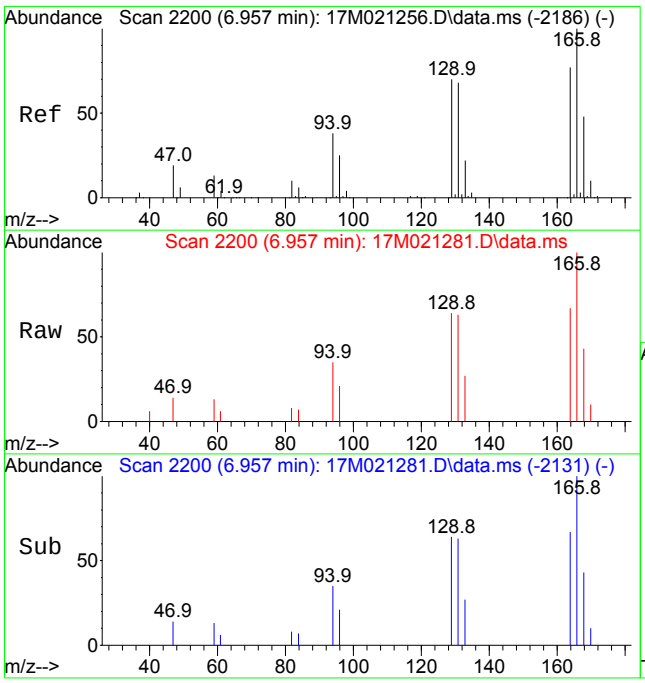


#37
Trichloroethene
Concen: 129.3740 ug/L
RT: 5.170 min Scan# 1583
Delta R.T. 0.000 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion:130 Resp: 772787

Ion	Ratio	Lower	Upper
130	100		
60	39.0	23.6	55.2

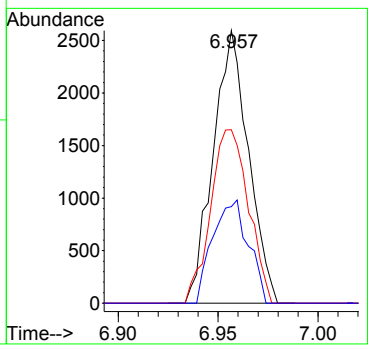


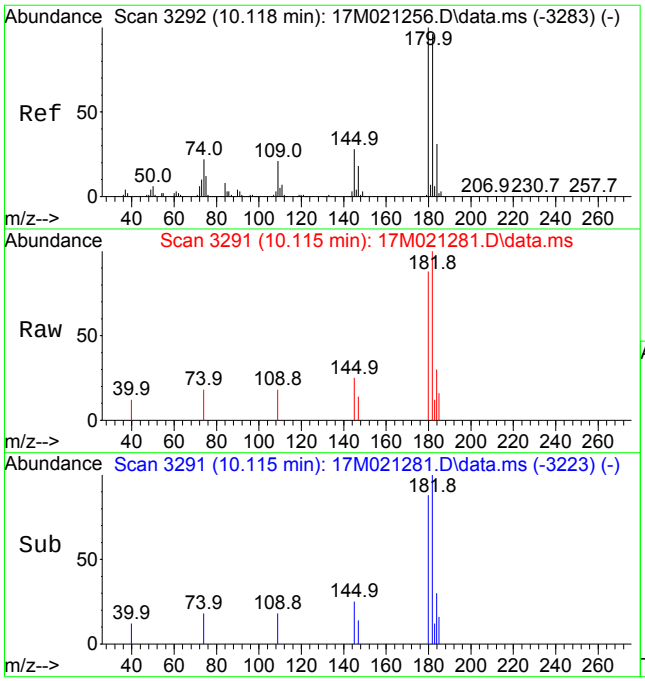


#49
Tetrachloroethene
Concen: 0.5654 ug/L
RT: 6.957 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion:166 Resp: 3185

Ion	Ratio	Lower	Upper
166	100		
129	68.3	56.7	85.1
94	38.1	30.7	46.1

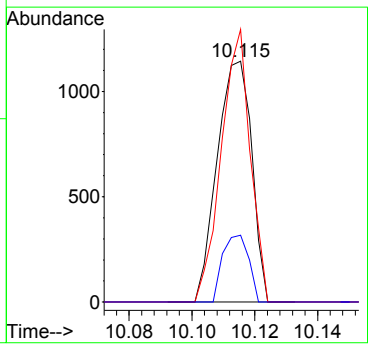




#84
1,2,4-Trichlorobenzene
Concen: 0.1202 ug/L
RT: 10.115 min Scan# 3291
Delta R.T. -0.003 min
Lab File: 17M021281.D
Acq: 21 May 2016 00:24

Tgt Ion:180 Resp: 874

Ion	Ratio	Lower	Upper
180	100		
182	94.9	57.5	134.1
145	20.9	19.4	45.2



Data File : D:\MassHunter\GCMS\1\data\052016\17M021282.D Vial: 28
Acq On : 21 May 2016 00:44 Operator: ADC
Sample : L16050763-07 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:36 2016

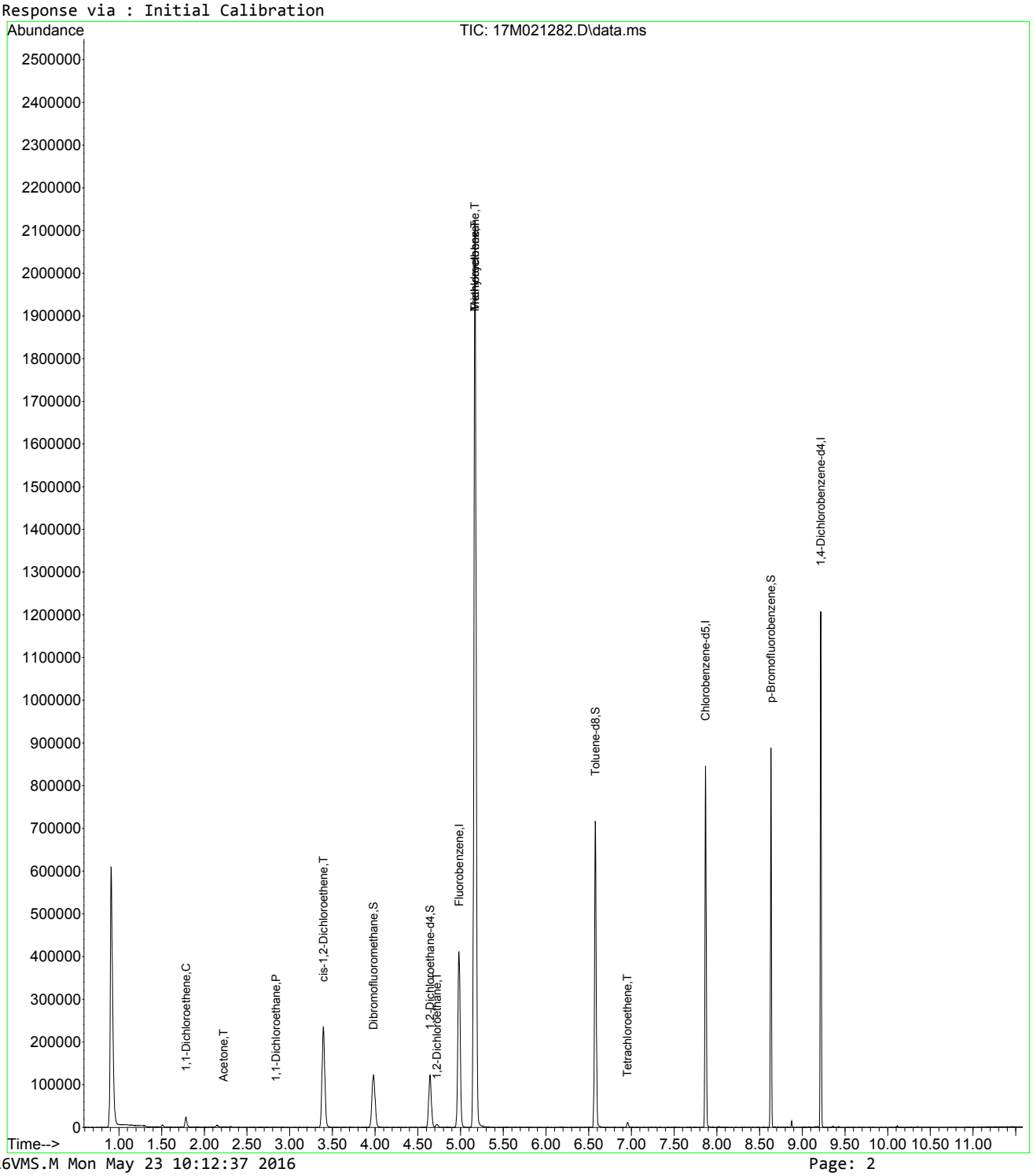
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	389606	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	295109	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	162268	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.980	111	99170	24.0330	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 96.132%			
34) 1,2-Dichloroethane-d4	4.643	65	98800	25.8946	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.578%			
47) Toluene-d8	6.577	98	399252	25.3333	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.333%			
66) p-Bromofluorobenzene	8.633	95	144571	25.7682	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.073%			
Target Compounds						Qvalue
10) 1,1-Dichloroethene	1.785	61	10099	1.5903	ug/L	100
16) Acetone	2.225	43	944	1.5319	ug/L #	45
20) 1,1-Dichloroethane	2.839	63	1128	0.1454	ug/L #	68
23) cis-1,2-Dichloroethene	3.392	96	126152	27.3219	ug/L	100
35) 1,2-Dichloroethane	4.721	62	6276	1.2993	ug/L	97
36) Methylcyclohexane	5.167	83	8212	1.2096	ug/L #	1
37) Trichloroethene	5.167	130	739391	128.2137	ug/L	99
49) Tetrachloroethene	6.954	166	3026	0.5545	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021282.D Vial: 28
Acq On : 21 May 2016 00:44 Operator: ADC
Sample : L16050763-07 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:36 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



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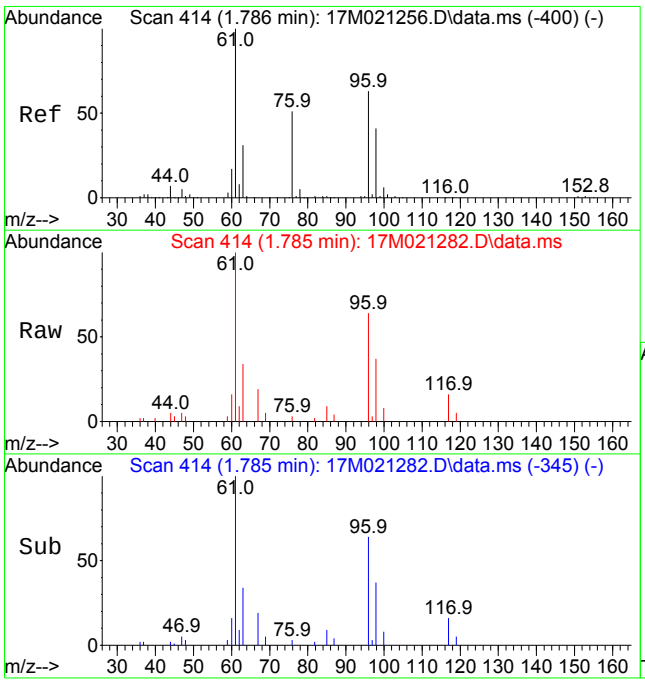
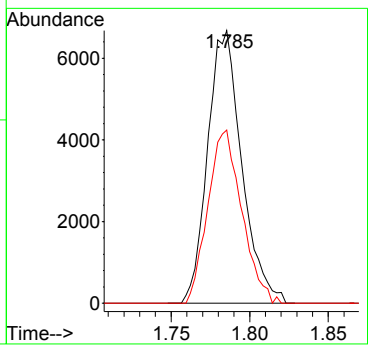
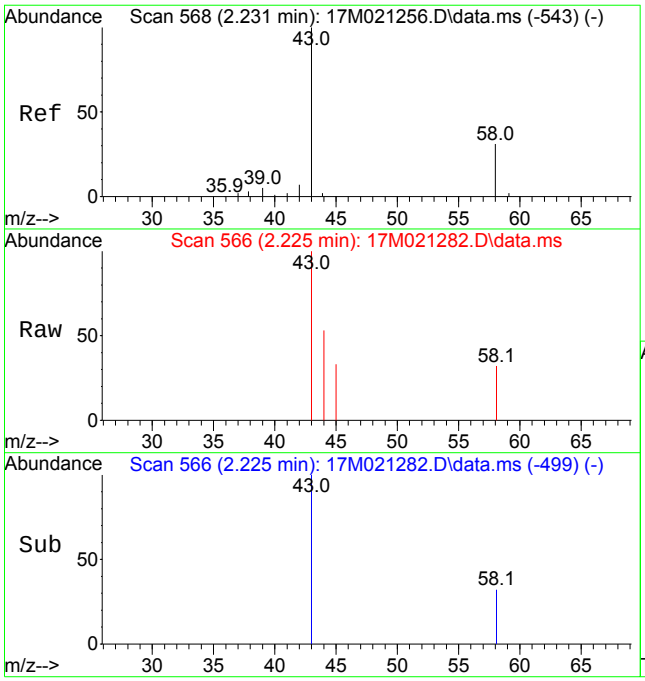


#10
1,1-Dichloroethene
Concen: 1.5903 ug/L
RT: 1.785 min Scan# 414
Delta R.T. -0.001 min
Lab File: 17M021282.D
Acq: 21 May 2016 00:44

Tgt Ion: 61 Resp: 10099

Ion	Ratio	Lower	Upper
61	100		
96	63.1	50.2	75.4

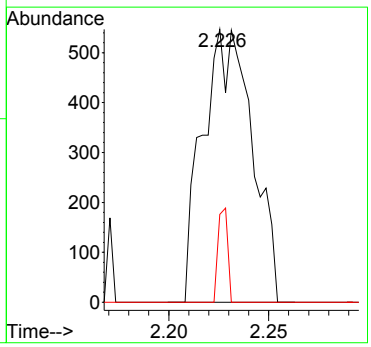


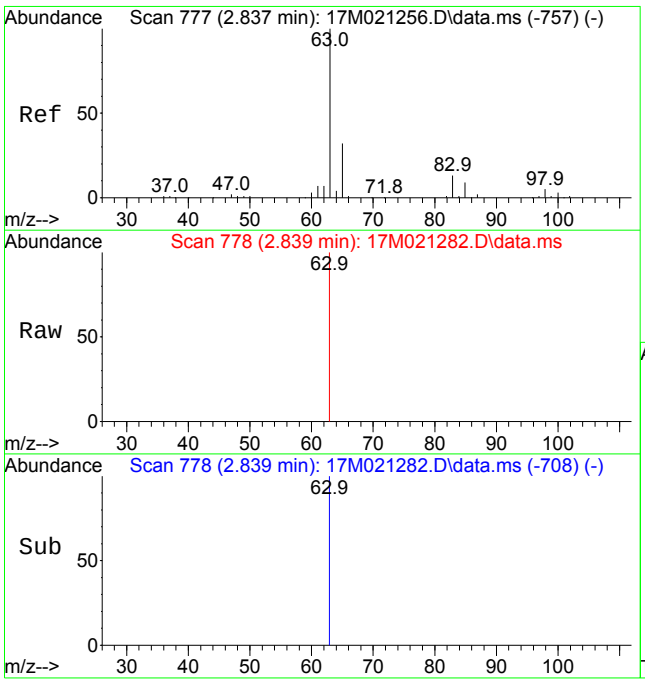


#16
Acetone
Concen: 1.5319 ug/L
RT: 2.225 min Scan# 566
Delta R.T. -0.006 min
Lab File: 17M021282.D
Acq: 21 May 2016 00:44

Tgt Ion: 43 Resp: 944

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.6	41.2#

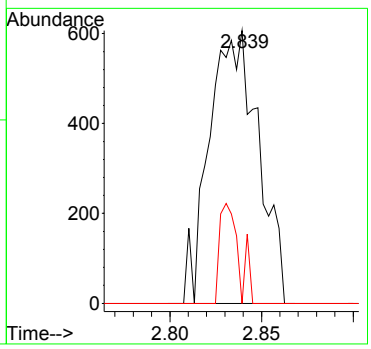


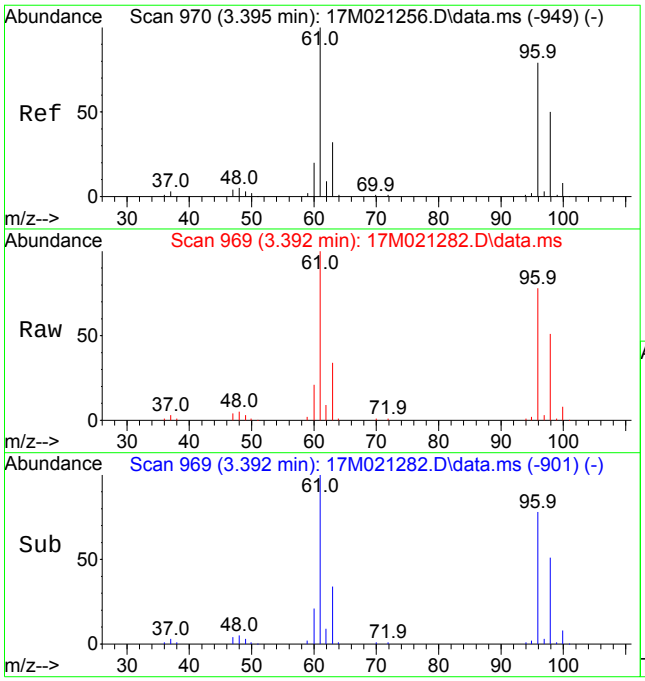


#20
1,1-Dichloroethane
Concen: 0.1454 ug/L
RT: 2.839 min Scan# 778
Delta R.T. 0.002 min
Lab File: 17M021282.D
Acq: 21 May 2016 00:44

Tgt Ion: 63 Resp: 1128

Ion	Ratio	Lower	Upper
63	100		
65	14.3	25.4	38.2#

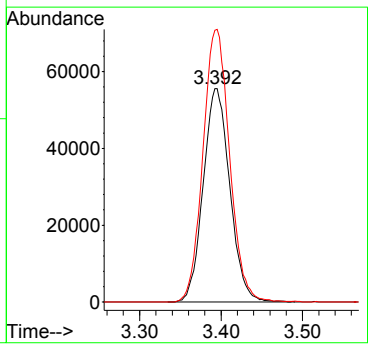


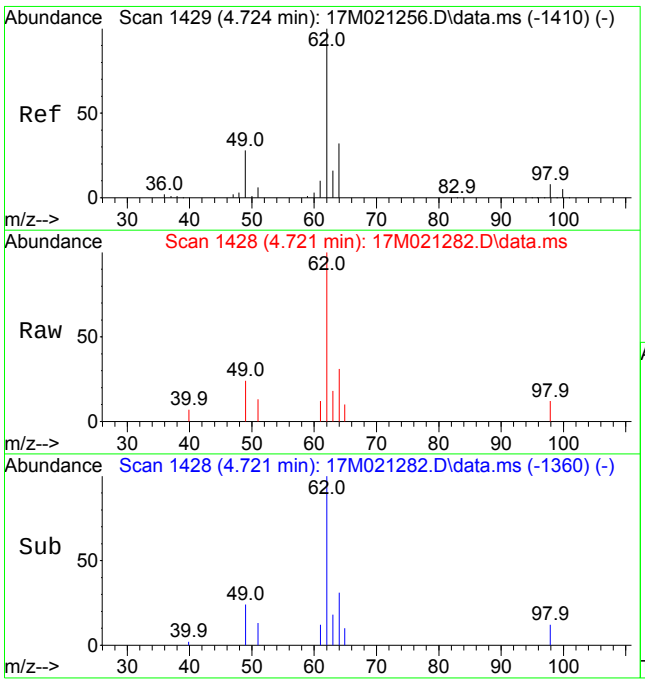


#23
cis-1,2-Dichloroethene
Concen: 27.3219 ug/L
RT: 3.392 min Scan# 969
Delta R.T. -0.003 min
Lab File: 17M021282.D
Acq: 21 May 2016 00:44

Tgt Ion: 96 Resp: 126152

Ion	Ratio	Lower	Upper
96	100		
61	128.3	102.6	154.0

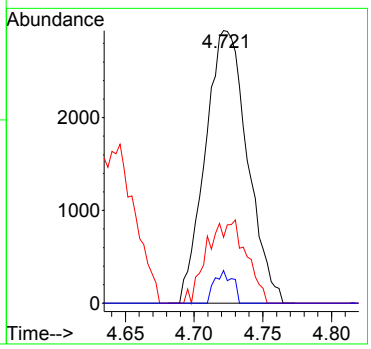


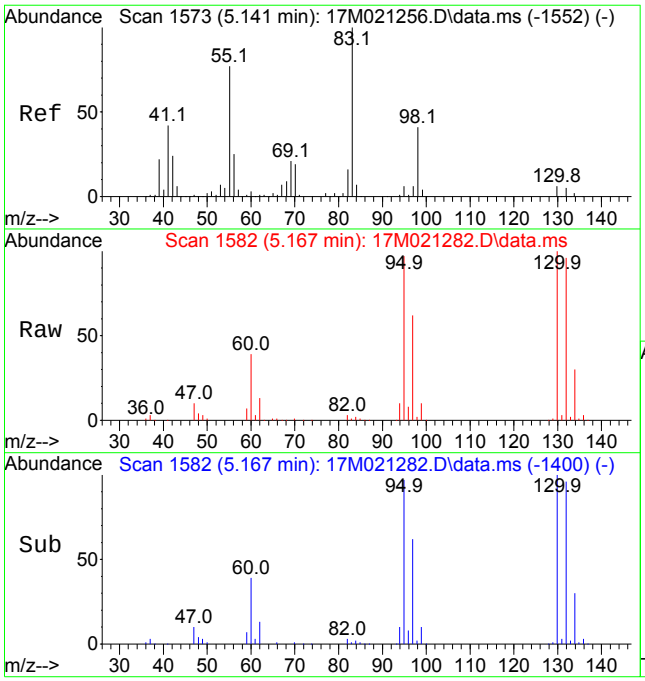


#35
1,2-Dichloroethane
Concen: 1.2993 ug/L
RT: 4.721 min Scan# 1428
Delta R.T. -0.003 min
Lab File: 17M021282.D
Acq: 21 May 2016 00:44

Tgt Ion: 62 Resp: 6276

Ion	Ratio	Lower	Upper
62	100		
49	28.3	16.7	38.9
98	5.1	5.0	11.6

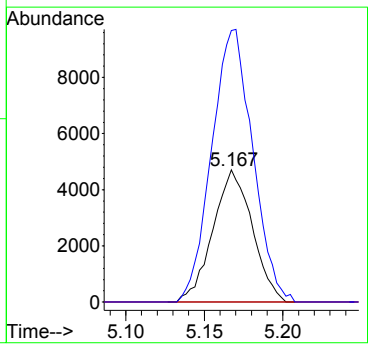


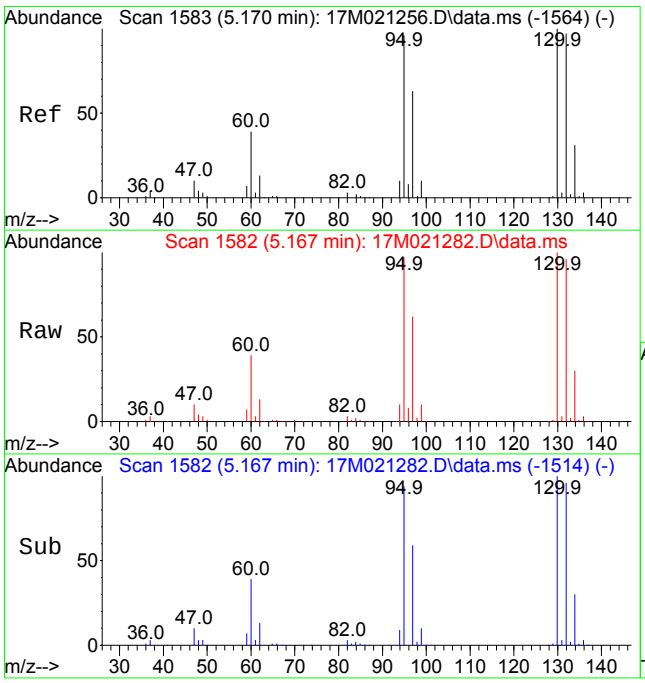


#36
Methylcyclohexane
Concen: 1.2096 ug/L
RT: 5.167 min Scan# 1582
Delta R.T. 0.026 min
Lab File: 17M021282.D
Acq: 21 May 2016 00:44

Tgt Ion: 83 Resp: 8212

Ion	Ratio	Lower	Upper
83	100		
55	0.0	60.5	90.7#
98	215.1	33.4	50.2#

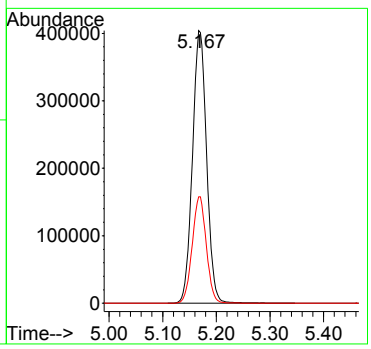


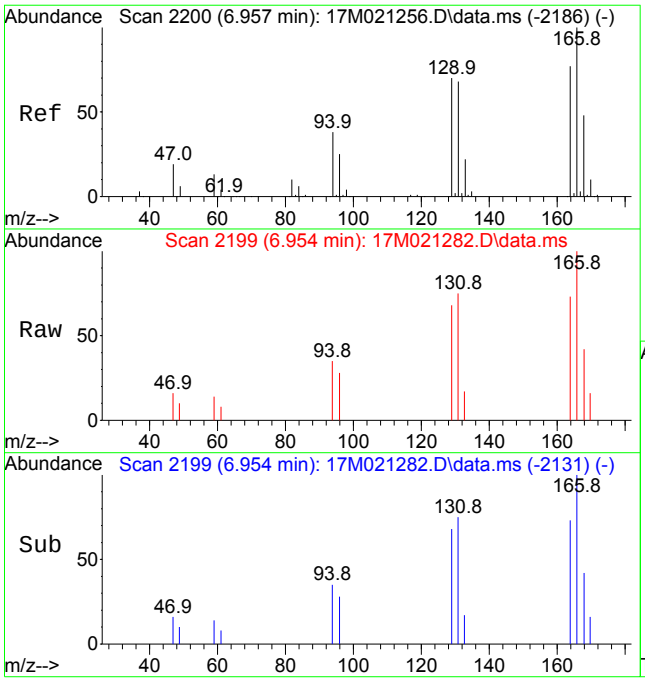


#37
Trichloroethene
Concen: 128.2137 ug/L
RT: 5.167 min Scan# 1582
Delta R.T. -0.003 min
Lab File: 17M021282.D
Acq: 21 May 2016 00:44

Tgt Ion:130 Resp: 739391

Ion	Ratio	Lower	Upper
130	100		
60	39.1	23.6	55.2

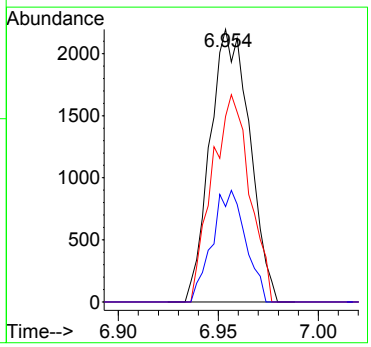




#49
Tetrachloroethene
Concen: 0.5545 ug/L
RT: 6.954 min Scan# 2199
Delta R.T. -0.003 min
Lab File: 17M021282.D
Acq: 21 May 2016 00:44

Tgt Ion:166 Resp: 3026

Ion	Ratio	Lower	Upper
166	100		
129	72.4	56.7	85.1
94	34.7	30.7	46.1



Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052116\17M021306.D Vial: 11
Acq On : 21 May 2016 18:00 Operator: jds
Sample : L16050763-08 B A1 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:24:48 2016

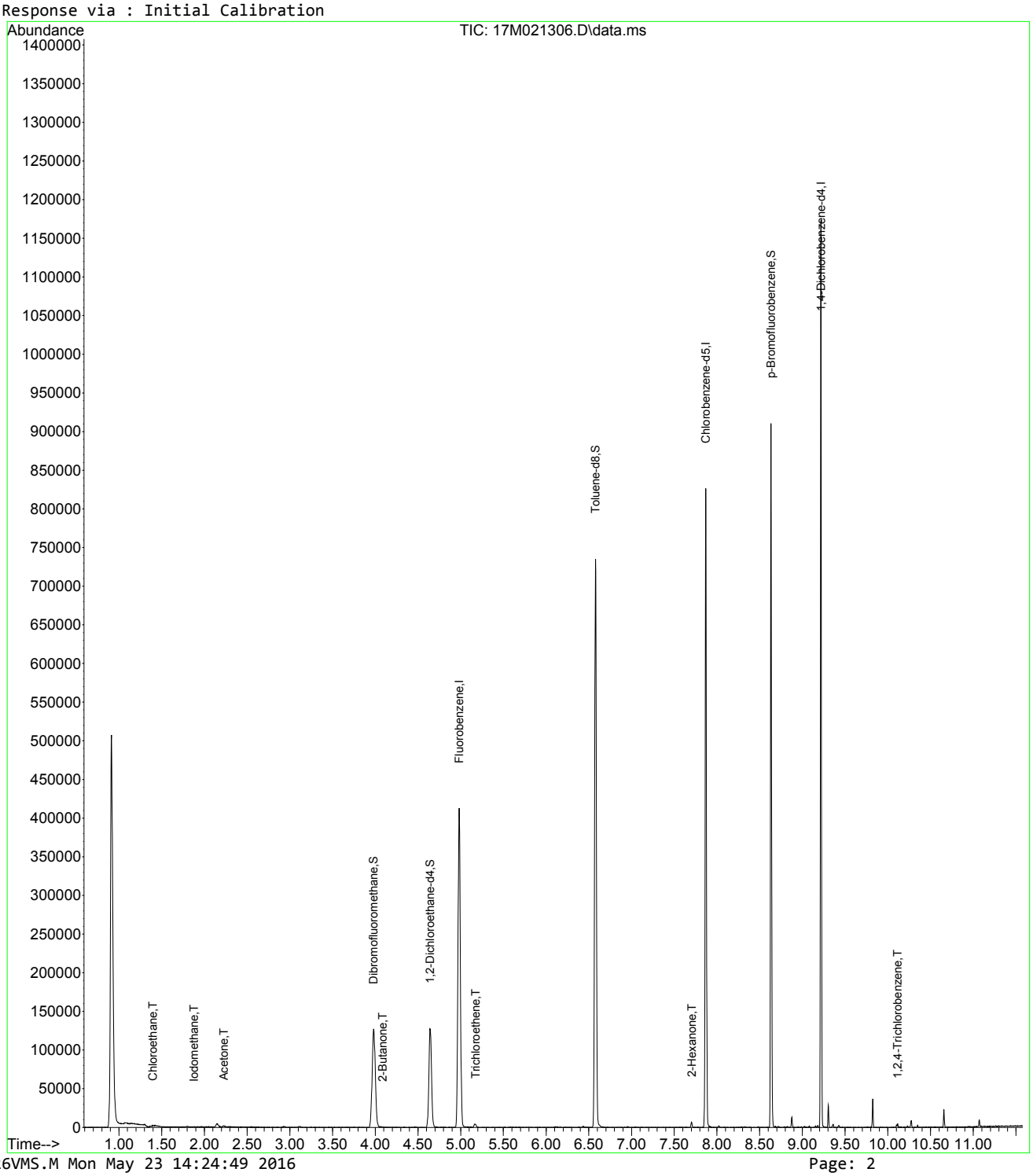
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.982	96	388148	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	294384	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	159310	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.980	111	103953	25.2867 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.147%		
34) 1,2-Dichloroethane-d4	4.643	65	102641	27.0024 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 108.010%		
47) Toluene-d8	6.577	98	411529	26.1766 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.706%		
66) p-Bromofluorobenzene	8.633	95	147140	26.7131 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 106.852%		
Target Compounds					Qvalue
7) Chloroethane	1.398	64	539	0.2378 ug/L #	45
13) Iodomethane	1.875	142	157	1.1108 ug/L #	34
16) Acetone	2.229	43	1483	2.4156 ug/L	80
32) 2-Butanone	4.087	43	952	0.9798 ug/L #	34
37) Trichloroethene	5.173	130	1650	0.2872 ug/L	88
54) 2-Hexanone	7.704	43	834	0.5394 ug/L #	26
84) 1,2,4-Trichlorobenzene	10.113	180	877	0.1249 ug/L	95

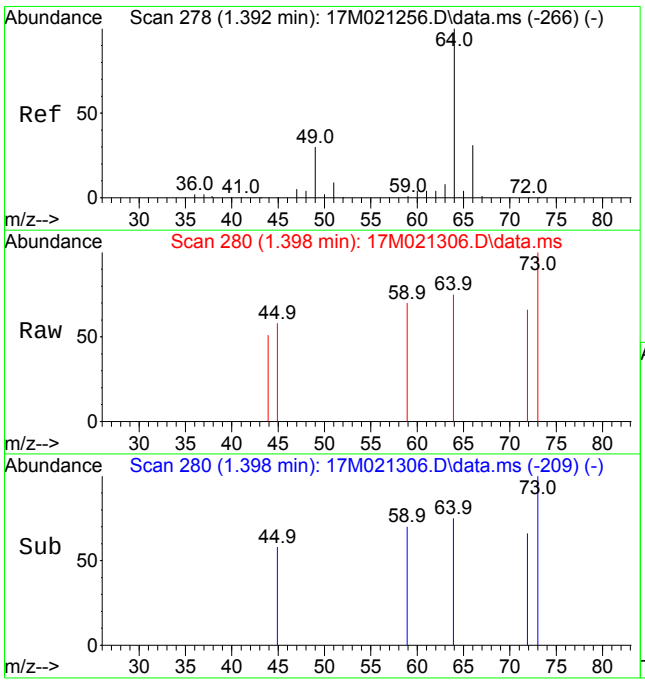
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052116\17M021306.D Vial: 11
Acq On : 21 May 2016 18:00 Operator: jds
Sample : L16050763-08 B A1 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:24:48 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



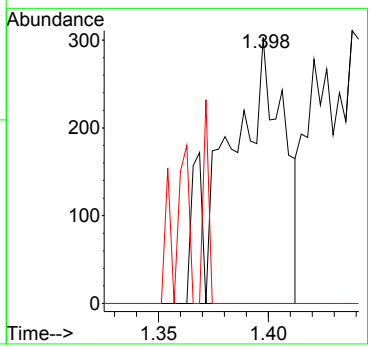
826VMS.M Mon May 23 14:24:49 2016 Page: 2

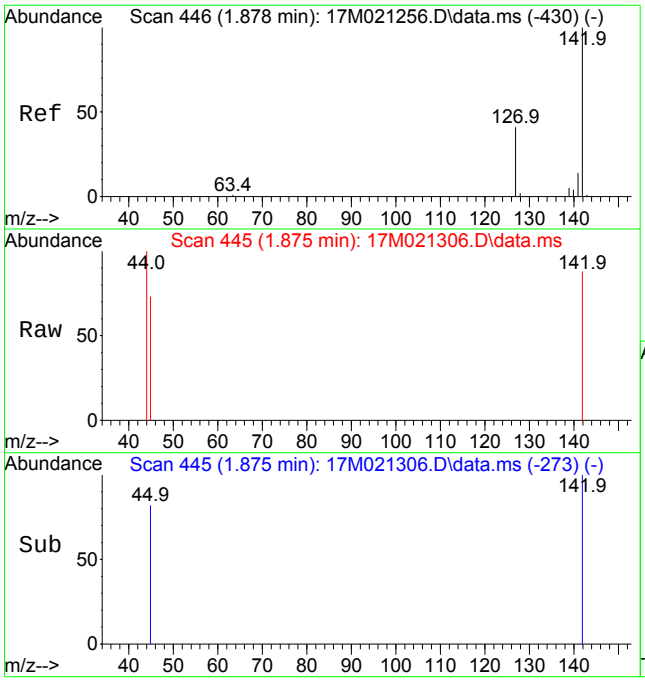


#7
Chloroethane
Concen: 0.2378 ug/L
RT: 1.398 min Scan# 280
Delta R.T. 0.006 min
Lab File: 17M021306.D
Acq: 21 May 2016 18:00

Tgt Ion: 64 Resp: 539

Ion	Ratio	Lower	Upper
64	100		
49	0.0	17.6	41.0#

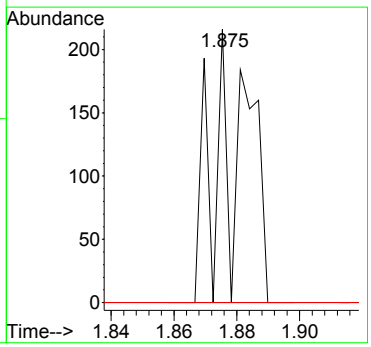


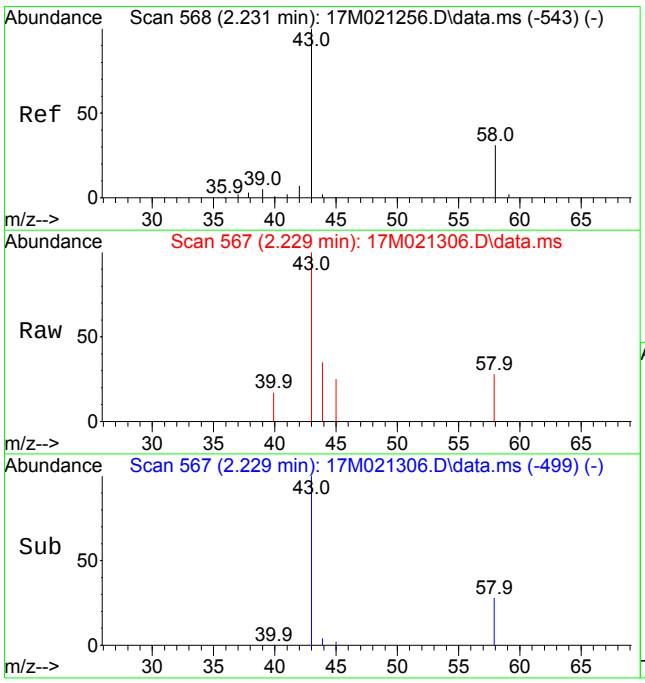


#13
Iodomethane
Concen: 1.1108 ug/L
RT: 1.875 min Scan# 445
Delta R.T. -0.003 min
Lab File: 17M021306.D
Acq: 21 May 2016 18:00

Tgt Ion:142 Resp: 157

Ion	Ratio	Lower	Upper
142	100		
127	0.0	33.3	49.9#

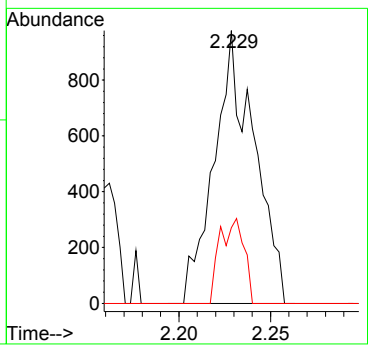


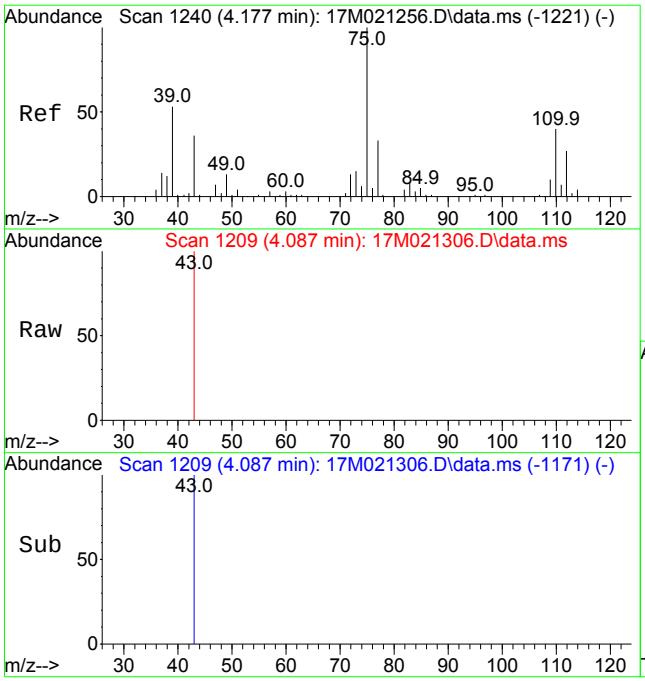


#16
Acetone
Concen: 2.4156 ug/L
RT: 2.229 min Scan# 567
Delta R.T. -0.002 min
Lab File: 17M021306.D
Acq: 21 May 2016 18:00

Tgt Ion: 43 Resp: 1483

Ion	Ratio	Lower	Upper
43	100		
58	18.9	17.6	41.2

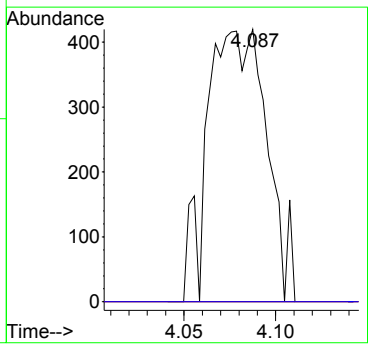


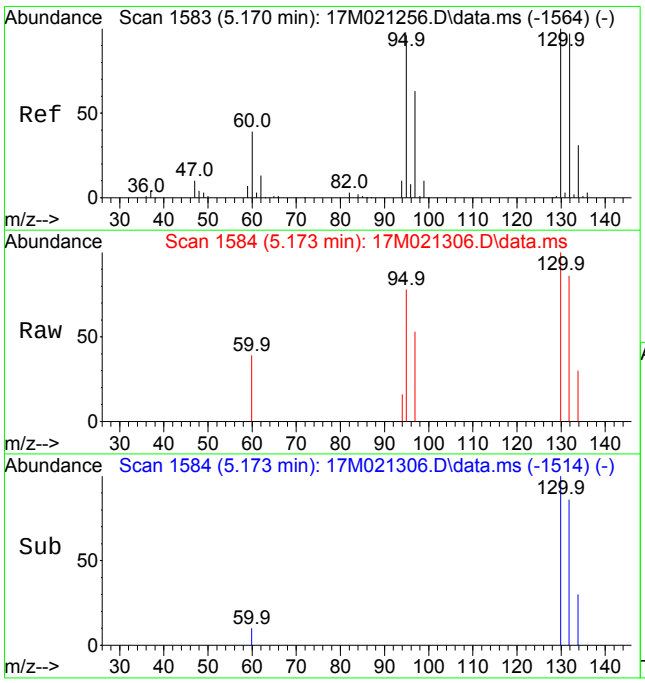


#32
2-Butanone
Concen: 0.9798 ug/L
RT: 4.087 min Scan# 1209
Delta R.T. -0.090 min
Lab File: 17M021306.D
Acq: 21 May 2016 18:00

Tgt Ion: 43 Resp: 952

Ion	Ratio	Lower	Upper
43	100		
72	0.0	40.0	60.0#
57	0.0	6.4	9.6#

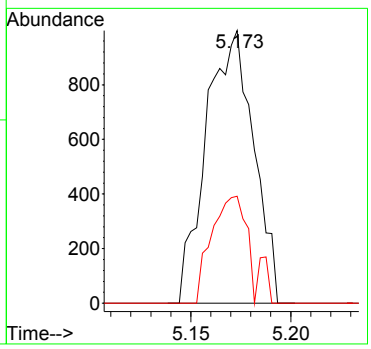


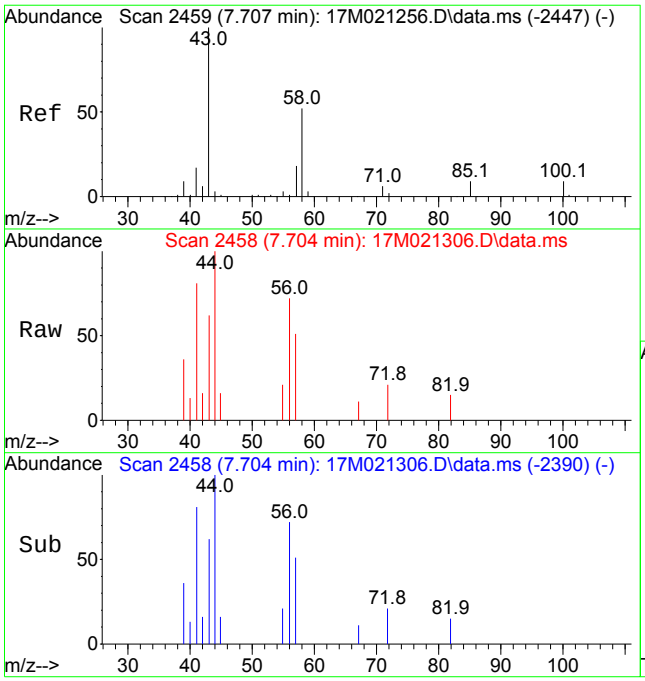


#37
Trichloroethene
Concen: 0.2872 ug/L
RT: 5.173 min Scan# 1584
Delta R.T. 0.003 min
Lab File: 17M021306.D
Acq: 21 May 2016 18:00

Tgt Ion:130 Resp: 1650

Ion	Ratio	Lower	Upper
130	100		
60	32.2	23.6	55.2

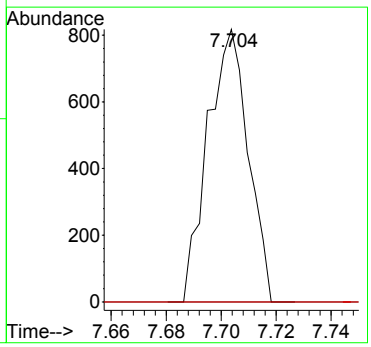


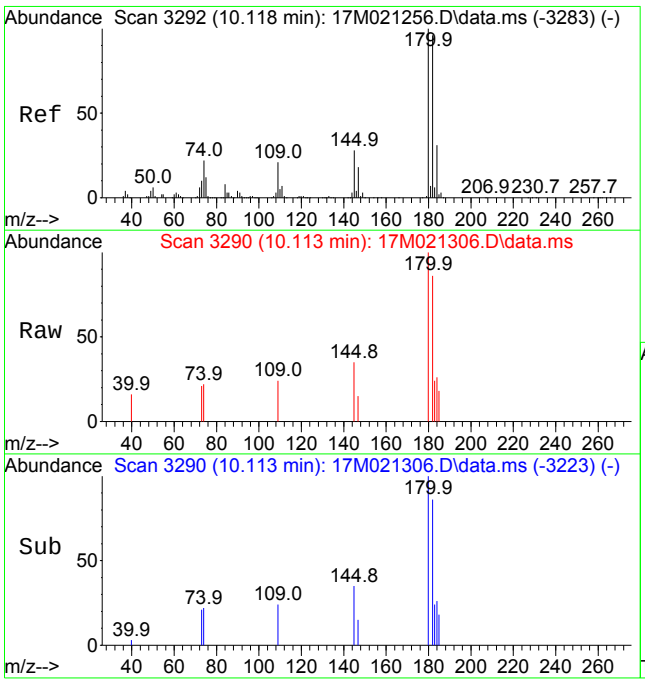


#54
2-Hexanone
Concen: 0.5394 ug/L
RT: 7.704 min Scan# 2458
Delta R.T. -0.003 min
Lab File: 17M021306.D
Acq: 21 May 2016 18:00

Tgt Ion: 43 Resp: 834

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.4	62.2#

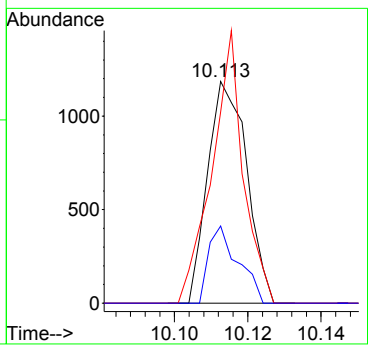




#84
1,2,4-Trichlorobenzene
Concen: 0.1249 ug/L
RT: 10.113 min Scan# 3290
Delta R.T. -0.005 min
Lab File: 17M021306.D
Acq: 21 May 2016 18:00

Tgt Ion:180 Resp: 877

Ion	Ratio	Lower	Upper
180	100		
182	98.3	57.5	134.1
145	26.5	19.4	45.2



Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021284.D Vial: 30
Acq On : 21 May 2016 01:23 Operator: ADC
Sample : L16050763-09 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:43 2016

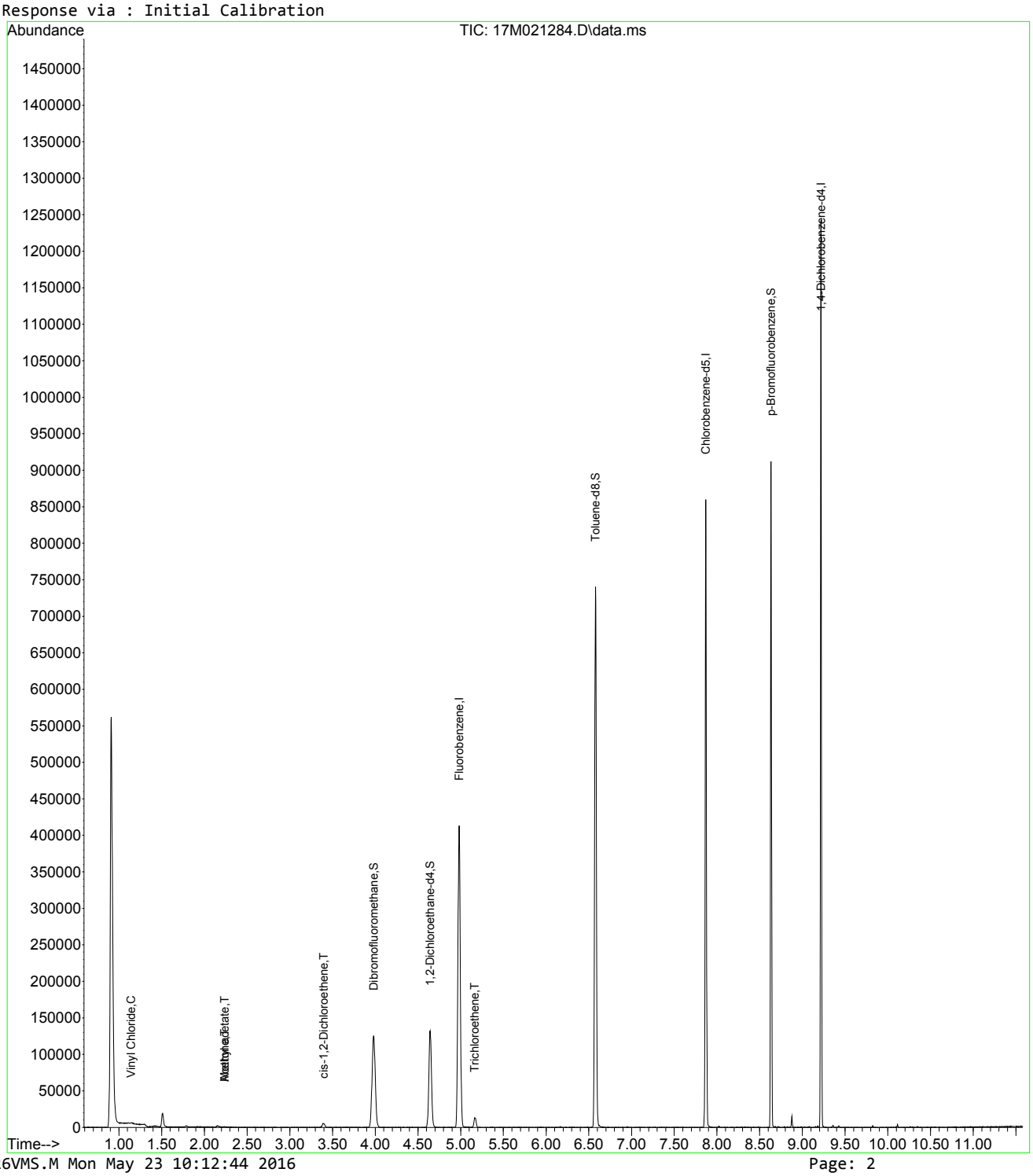
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	392343	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	297718	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	163896	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.983	111	103369	24.8758	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.503%			
34) 1,2-Dichloroethane-d4	4.643	65	105067	27.3451	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 109.380%			
47) Toluene-d8	6.577	98	411795	25.9002	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.601%			
66) p-Bromofluorobenzene	8.633	95	148369	26.1825	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.730%			
Target Compounds						Qvalue
4) Vinyl Chloride	1.143	62	786	0.1538	ug/L	80
16) Acetone	2.237	43	552	0.8895	ug/L #	45
18) Methyl acetate	2.237	43	552	0.2753	ug/L #	57
23) cis-1,2-Dichloroethene	3.395	96	3117	0.6704	ug/L	99
37) Trichloroethene	5.164	130	4706	0.8103	ug/L	100

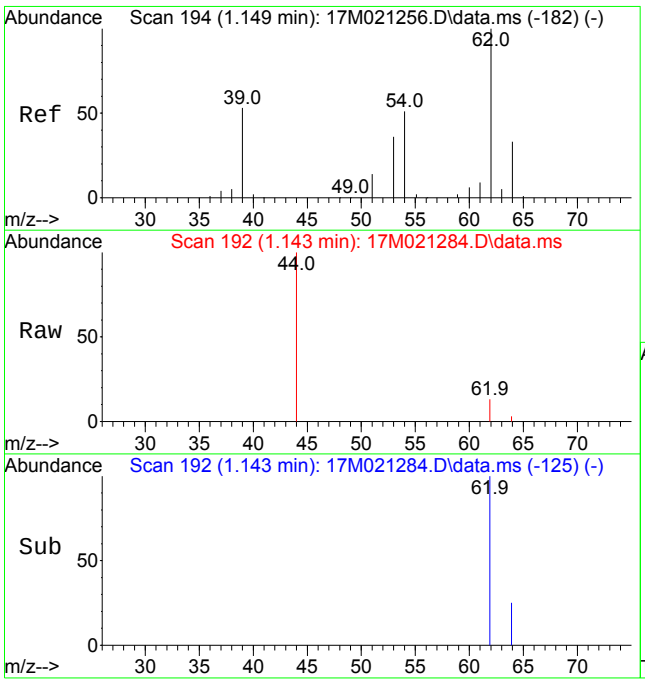
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021284.D Vial: 30
Acq On : 21 May 2016 01:23 Operator: ADC
Sample : L16050763-09 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:43 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



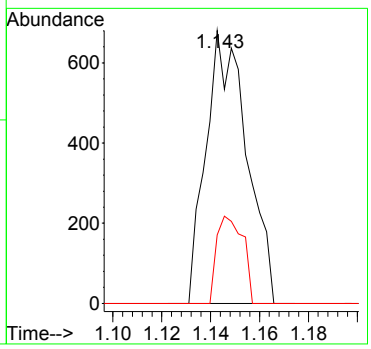
826VMS.M Mon May 23 10:12:44 2016 Page: 2

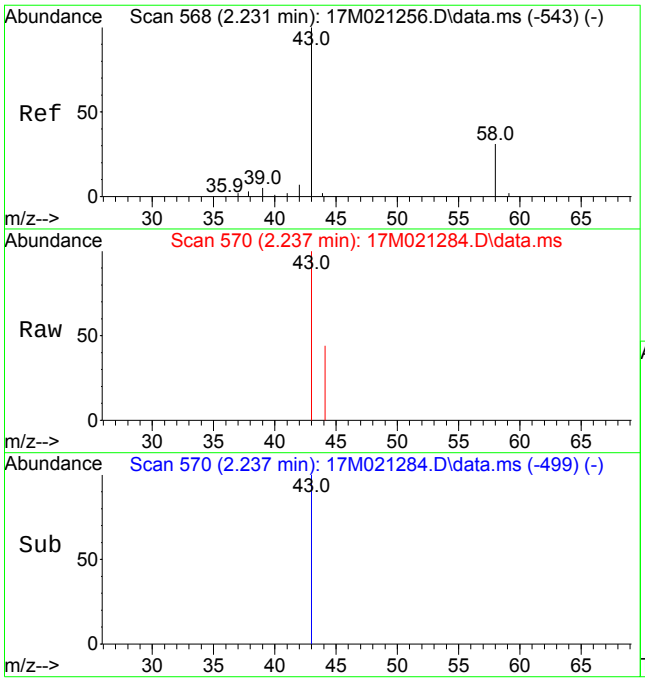


#4
Vinyl Chloride
Concen: 0.1538 ug/L
RT: 1.143 min Scan# 192
Delta R.T. -0.006 min
Lab File: 17M021284.D
Acq: 21 May 2016 01:23

Tgt Ion: 62 Resp: 786

Ion	Ratio	Lower	Upper
62	100		
64	20.6	19.2	44.8

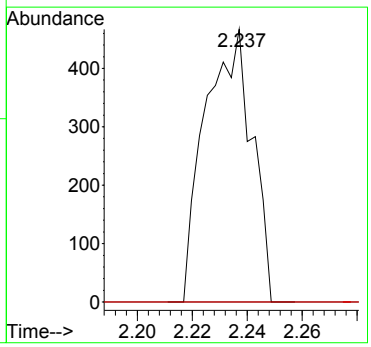


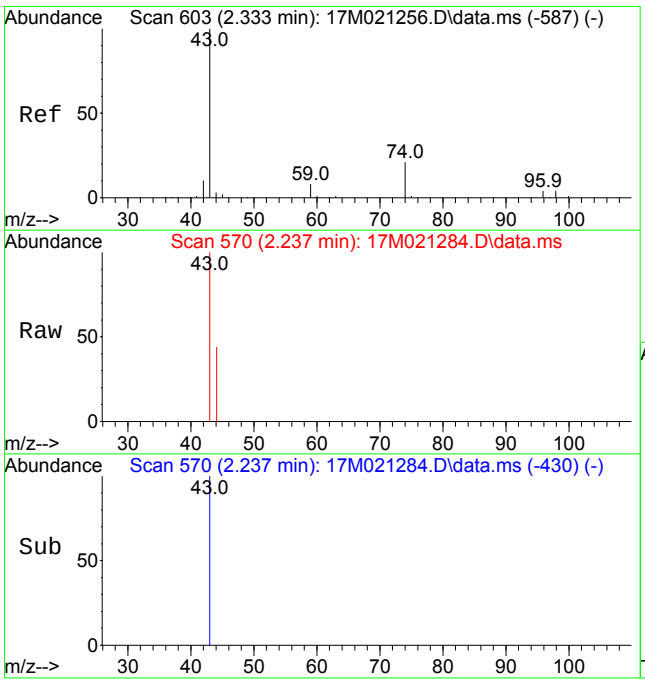


#16
Acetone
Concen: 0.8895 ug/L
RT: 2.237 min Scan# 570
Delta R.T. 0.006 min
Lab File: 17M021284.D
Acq: 21 May 2016 01:23

Tgt Ion: 43 Resp: 552

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.6	41.2#

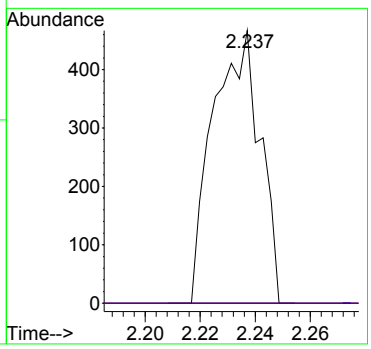


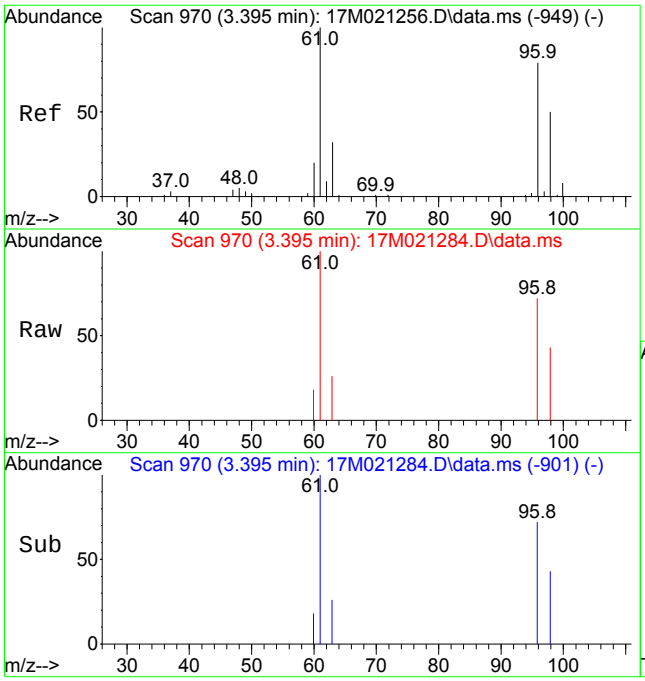


#18
Methyl acetate
Concen: 0.2753 ug/L
RT: 2.237 min Scan# 570
Delta R.T. -0.096 min
Lab File: 17M021284.D
Acq: 21 May 2016 01:23

Tgt Ion: 43 Resp: 552

Ion	Ratio	Lower	Upper
43	100		
74	0.0	21.3	21.3#
59	0.0	13.6	20.4#

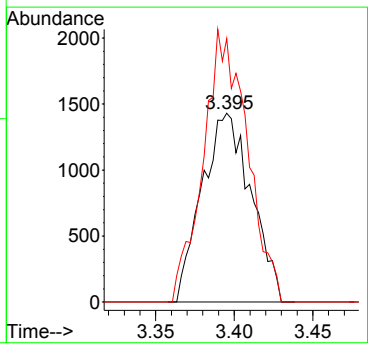


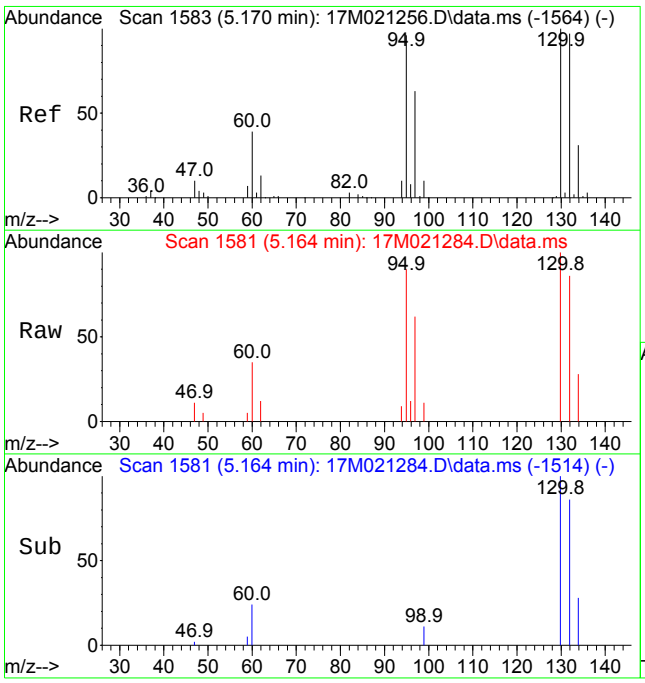


#23
cis-1,2-Dichloroethene
Concen: 0.6704 ug/L
RT: 3.395 min Scan# 970
Delta R.T. 0.000 min
Lab File: 17M021284.D
Acq: 21 May 2016 01:23

Tgt Ion: 96 Resp: 3117

Ion	Ratio	Lower	Upper
96	100		
61	129.2	102.6	154.0

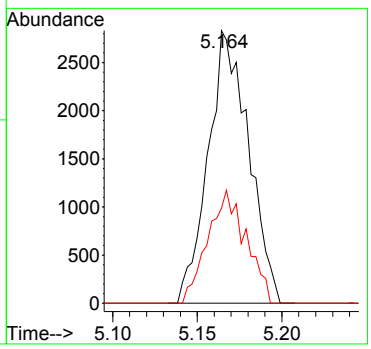




#37
Trichloroethene
Concen: 0.8103 ug/L
RT: 5.164 min Scan# 1581
Delta R.T. -0.006 min
Lab File: 17M021284.D
Acq: 21 May 2016 01:23

Tgt Ion:130 Resp: 4706

Ion	Ratio	Lower	Upper
130	100		
60	39.1	23.6	55.2



Data File : D:\MassHunter\GCMS\1\data\052016\17M021285.D Vial: 31
Acq On : 21 May 2016 01:43 Operator: ADC
Sample : L16050763-10 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:46 2016

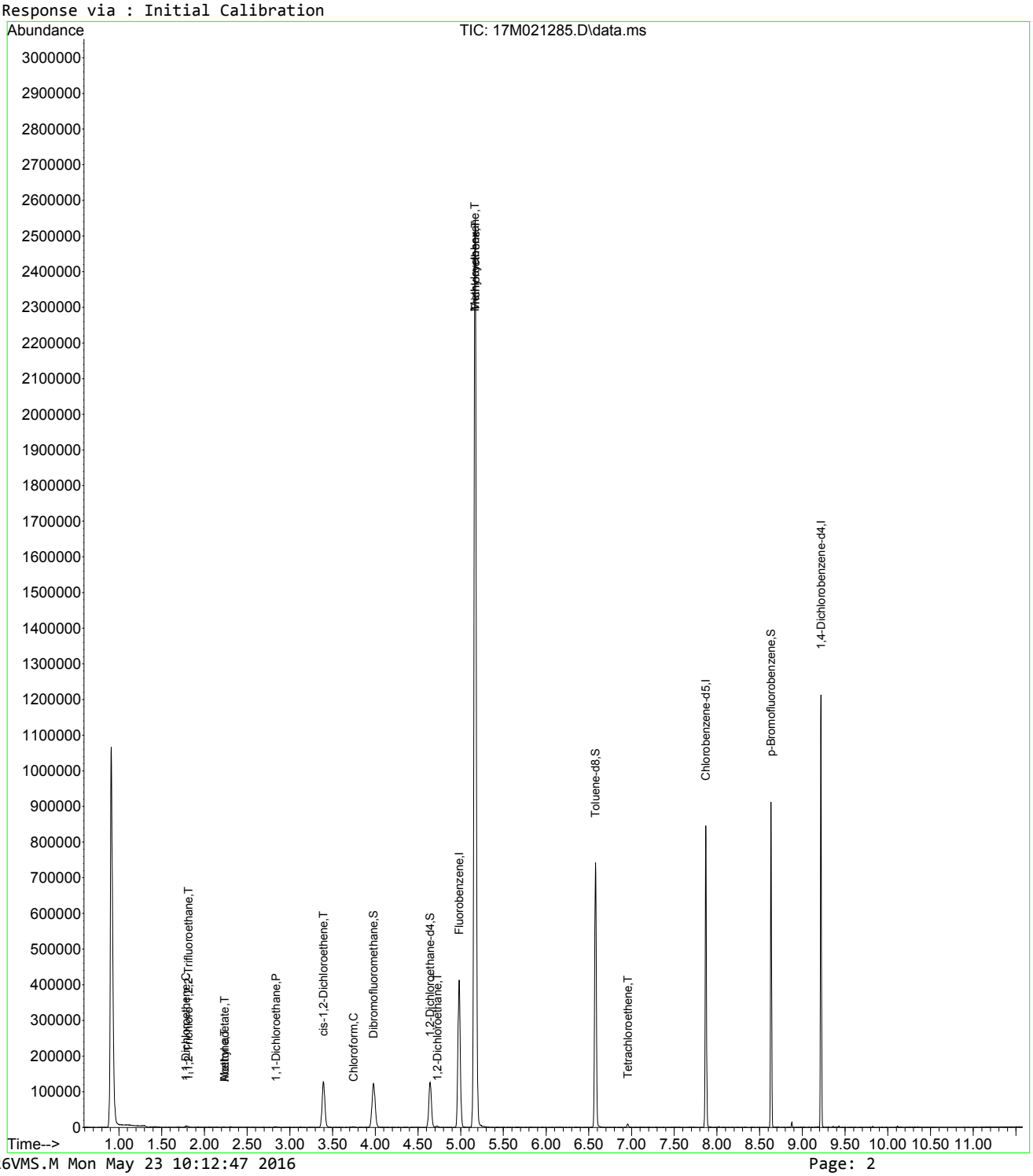
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	388880	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	295249	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	165386	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.980	111	100955	24.5112	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.045%			
34) 1,2-Dichloroethane-d4	4.643	65	102011	26.7861	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 107.144%			
47) Toluene-d8	6.577	98	407228	25.8271	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.308%			
66) p-Bromofluorobenzene	8.633	95	149990	26.2301	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.920%			
Target Compounds						Qvalue
10) 1,1-Dichloroethene	1.783	61	888	0.1401	ug/L	88
12) 1,1,2-Trichloro-1,2,2-...	1.811	101	711	0.1824	ug/L	95
16) Acetone	2.237	43	399	0.6487	ug/L #	45
18) Methyl acetate	2.237	43	399	0.2008	ug/L #	57
20) 1,1-Dichloroethane	2.836	63	2139	0.2762	ug/L	95
23) cis-1,2-Dichloroethene	3.392	96	69369	15.0519	ug/L	99
27) Chloroform	3.746	83	2191	0.2848	ug/L	93
35) 1,2-Dichloroethane	4.727	62	3315	0.6876	ug/L #	89
36) Methylcyclohexane	5.167	83	9433	1.3920	ug/L #	1
37) Trichloroethene	5.170	130	885749	153.8795	ug/L	100
49) Tetrachloroethene	6.957	166	2466	0.4517	ug/L	99

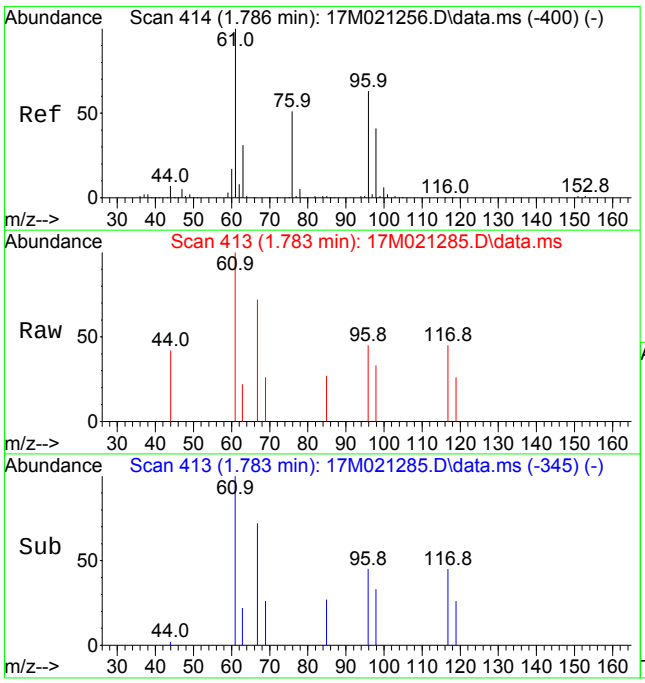
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021285.D Vial: 31
Acq On : 21 May 2016 01:43 Operator: ADC
Sample : L16050763-10 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:46 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



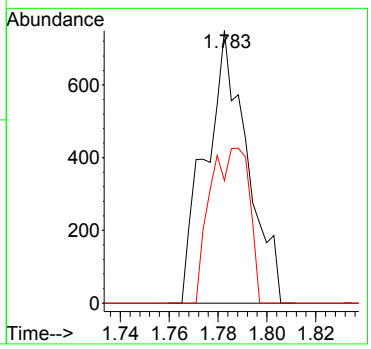
826VMS.M Mon May 23 10:12:47 2016 Page: 2

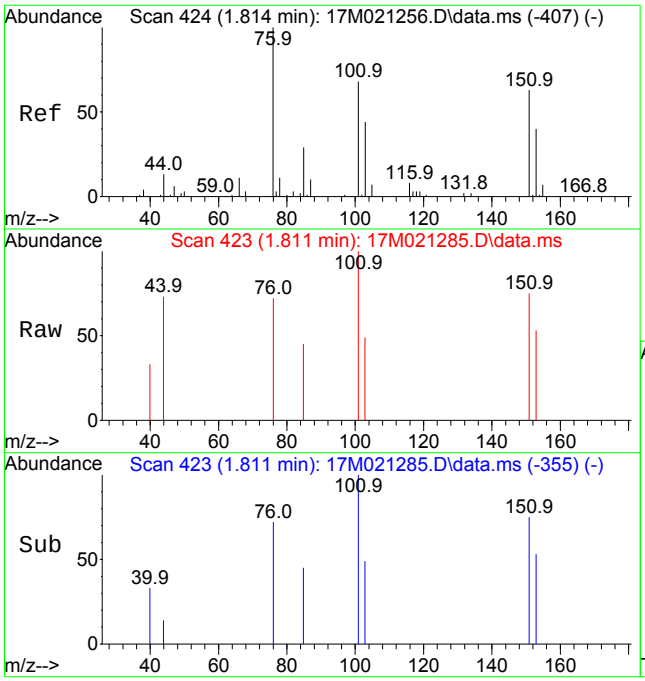


#10
1,1-Dichloroethene
Concen: 0.1401 ug/L
RT: 1.783 min Scan# 413
Delta R.T. -0.003 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion: 61 Resp: 888

Ion	Ratio	Lower	Upper
61	100		
96	53.5	50.2	75.4

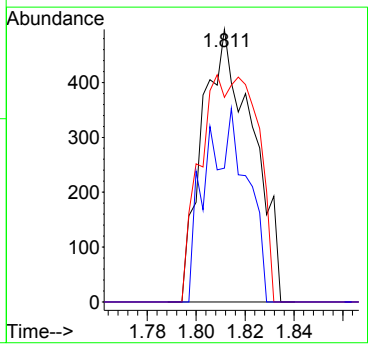


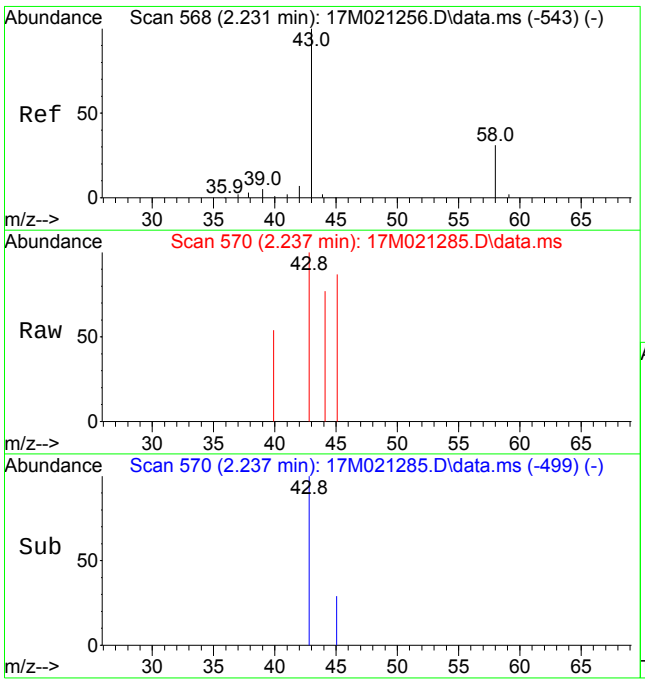


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 0.1824 ug/L
RT: 1.811 min Scan# 423
Delta R.T. -0.003 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion:101 Resp: 711

Ion	Ratio	Lower	Upper
101	100		
151	95.5	73.5	110.3
103	58.6	51.8	77.6

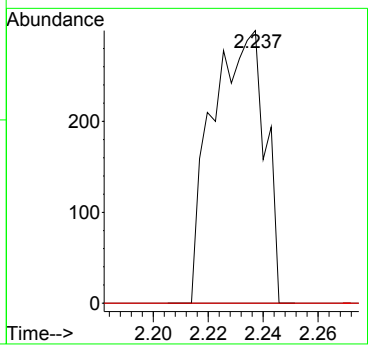


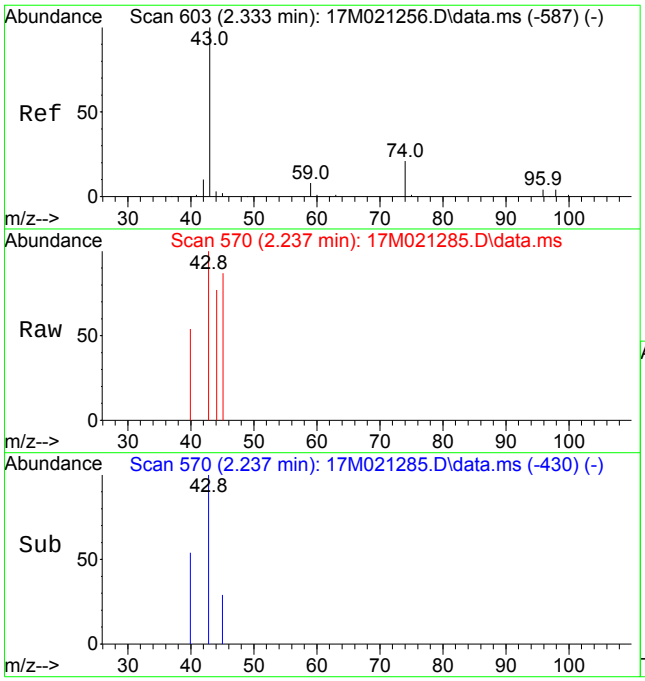


#16
Acetone
Concen: 0.6487 ug/L
RT: 2.237 min Scan# 570
Delta R.T. 0.006 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion: 43 Resp: 399

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.6	41.2#

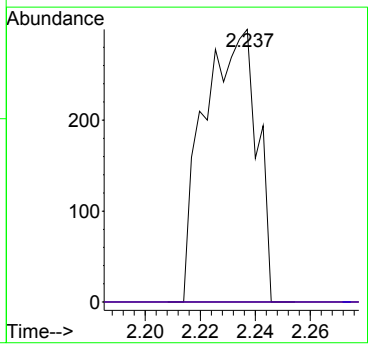


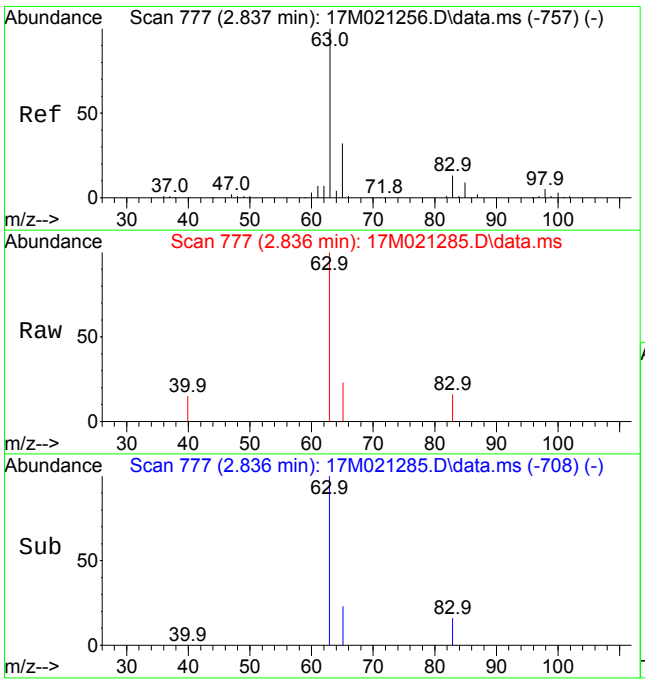


#18
Methyl acetate
Concen: 0.2008 ug/L
RT: 2.237 min Scan# 570
Delta R.T. -0.096 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion: 43 Resp: 399

Ion	Ratio	Lower	Upper
43	100		
74	0.0	21.3	21.3#
59	0.0	13.6	20.4#

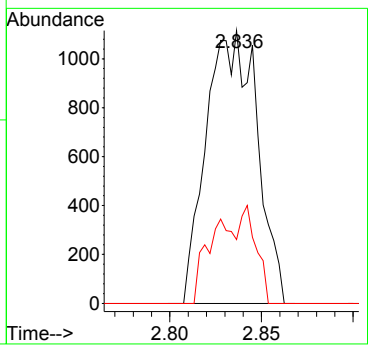


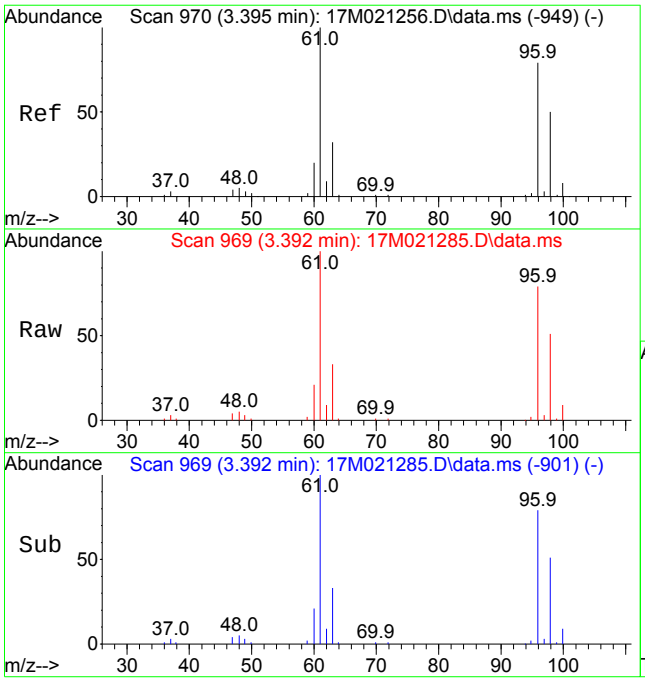


#20
1,1-Dichloroethane
Concen: 0.2762 ug/L
RT: 2.836 min Scan# 777
Delta R.T. -0.001 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion: 63 Resp: 2139

Ion	Ratio	Lower	Upper
63	100		
65	28.9	25.4	38.2

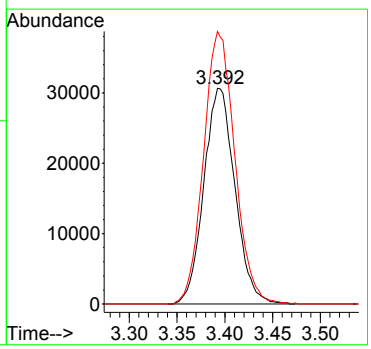


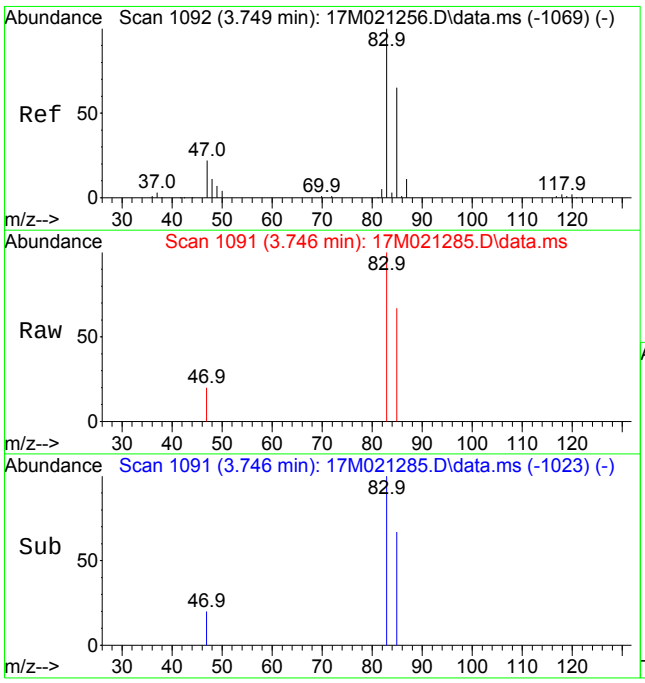


#23
cis-1,2-Dichloroethene
Concen: 15.0519 ug/L
RT: 3.392 min Scan# 969
Delta R.T. -0.003 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion: 96 Resp: 69369

Ion	Ratio	Lower	Upper
96	100		
61	127.2	102.6	154.0

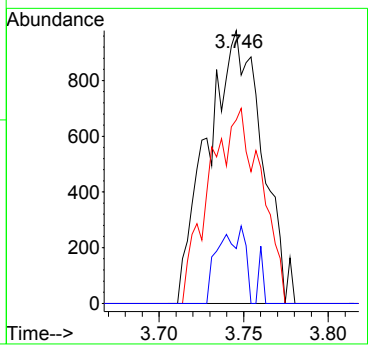


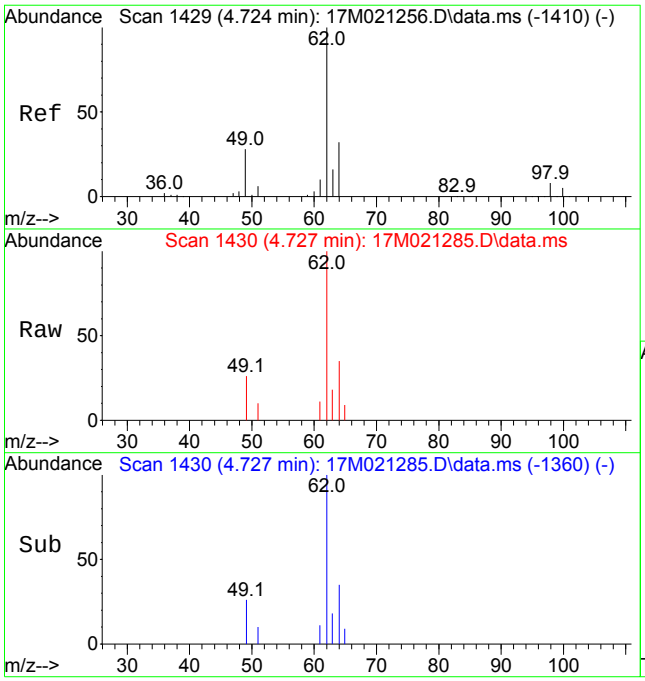


#27
Chloroform
Concen: 0.2848 ug/L
RT: 3.746 min Scan# 1091
Delta R.T. -0.003 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion: 83 Resp: 2191

Ion	Ratio	Lower	Upper
83	100		
85	68.0	39.0	91.0
47	15.2	13.3	30.9

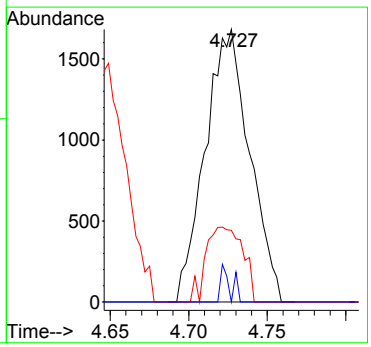


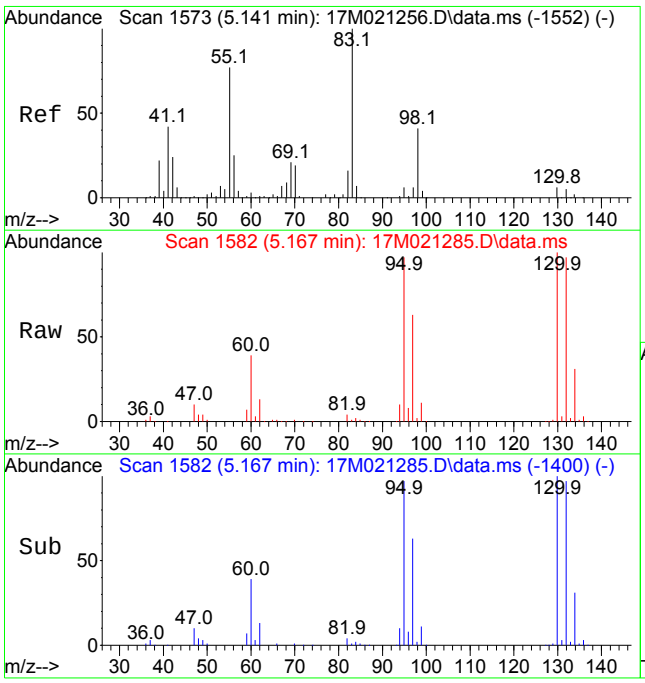


#35
1,2-Dichloroethane
Concen: 0.6876 ug/L
RT: 4.727 min Scan# 1430
Delta R.T. 0.003 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion: 62 Resp: 3315

Ion	Ratio	Lower	Upper
62	100		
49	22.8	16.7	38.9
98	3.0	5.0	11.6#

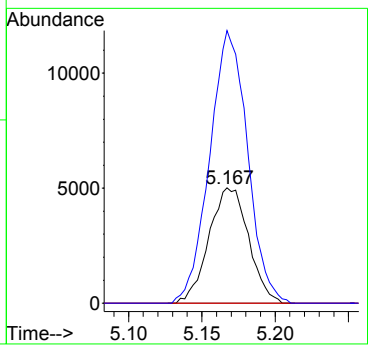


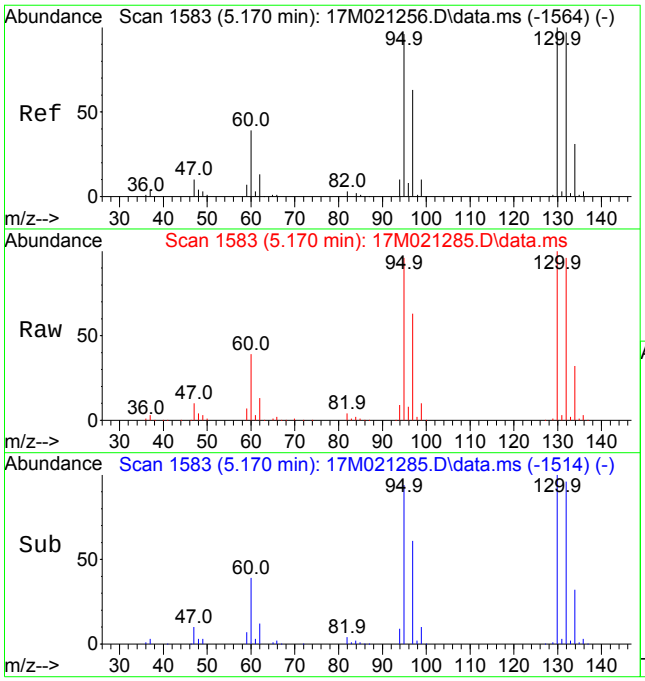


#36
Methylcyclohexane
Concen: 1.3920 ug/L
RT: 5.167 min Scan# 1582
Delta R.T. 0.026 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion: 83 Resp: 9433

Ion	Ratio	Lower	Upper
83	100		
55	0.0	60.5	90.7#
98	225.9	33.4	50.2#

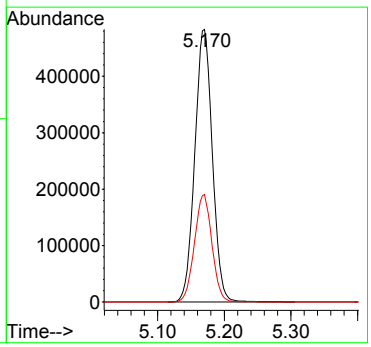


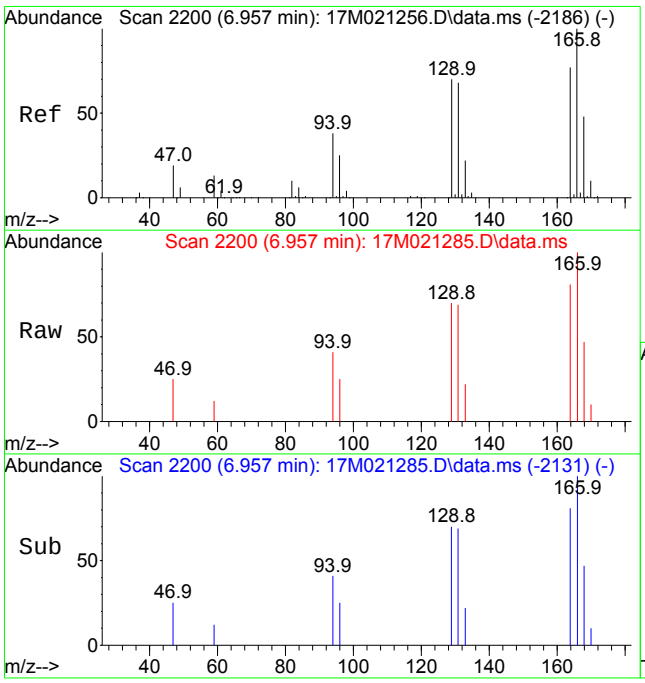


#37
Trichloroethene
Concen: 153.8795 ug/L
RT: 5.170 min Scan# 1583
Delta R.T. 0.000 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion:130 Resp: 885749

Ion	Ratio	Lower	Upper
130	100		
60	39.3	23.6	55.2

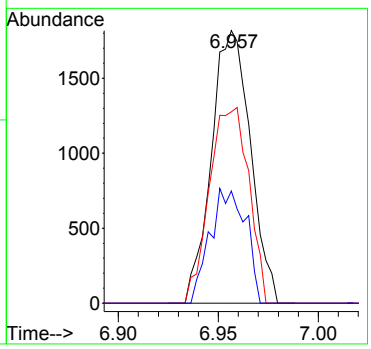




#49
Tetrachloroethene
Concen: 0.4517 ug/L
RT: 6.957 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 17M021285.D
Acq: 21 May 2016 01:43

Tgt Ion:166 Resp: 2466

Ion	Ratio	Lower	Upper
166	100		
129	72.6	56.7	85.1
94	38.6	30.7	46.1



Data File : D:\MassHunter\GCMS\1\data\052116\17M021307.D Vial: 12
Acq On : 21 May 2016 18:20 Operator: jds
Sample : L16050763-11 B A1 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:24:52 2016

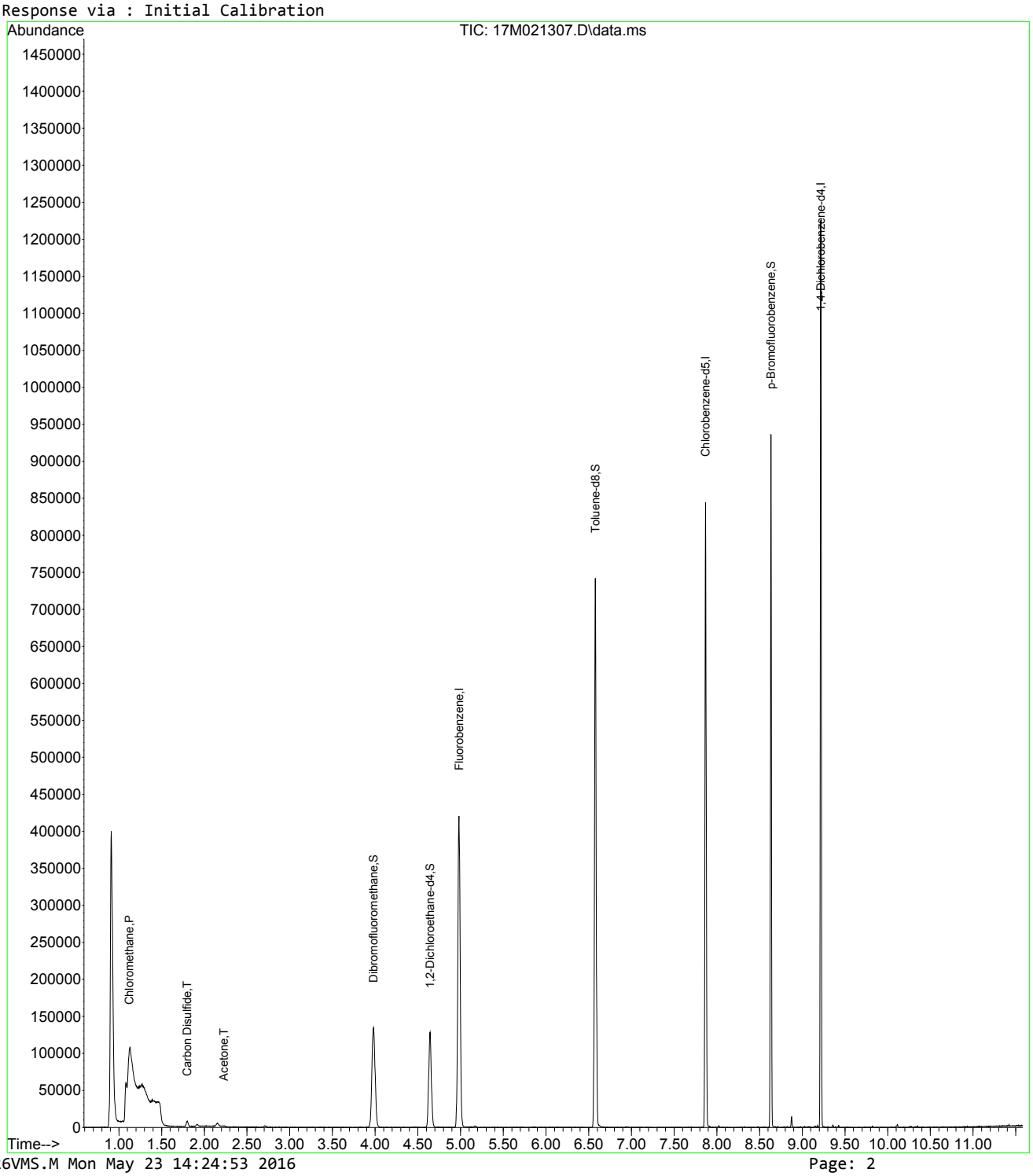
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

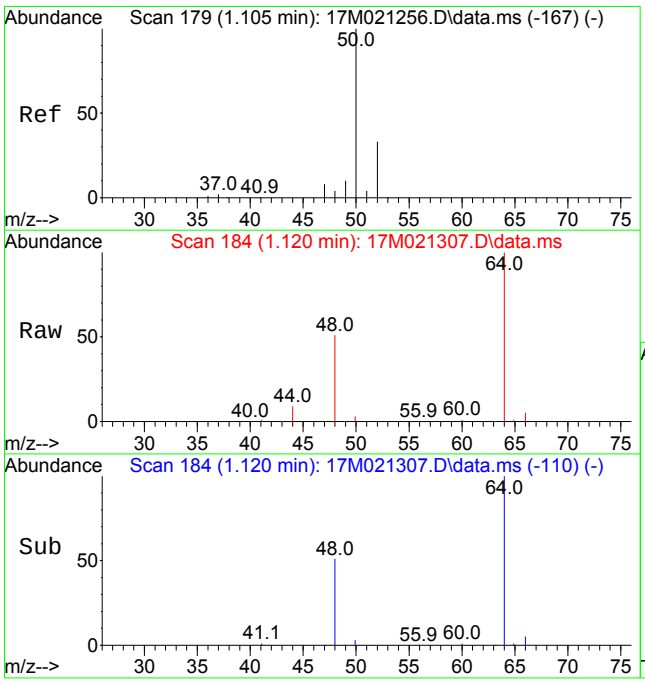
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.982	96	391933	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	298110	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	163795	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.980	111	110699	26.6677 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.671%		
34) 1,2-Dichloroethane-d4	4.640	65	102915	26.8130 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 107.252%		
47) Toluene-d8	6.577	98	412351	25.9010 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.604%		
66) p-Bromofluorobenzene	8.633	95	150815	26.6305 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 106.522%		
Target Compounds					Qvalue
3) Chloromethane	1.120	50	7734	1.5164 ug/L #	42
11) Carbon Disulfide	1.800	76	9939	0.8208 ug/L #	93
16) Acetone	2.228	43	1603	2.5859 ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052116\17M021307.D Vial: 12
Acq On : 21 May 2016 18:20 Operator: jds
Sample : L16050763-11 B A1 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:24:52 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

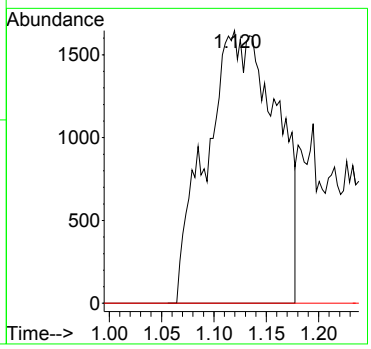


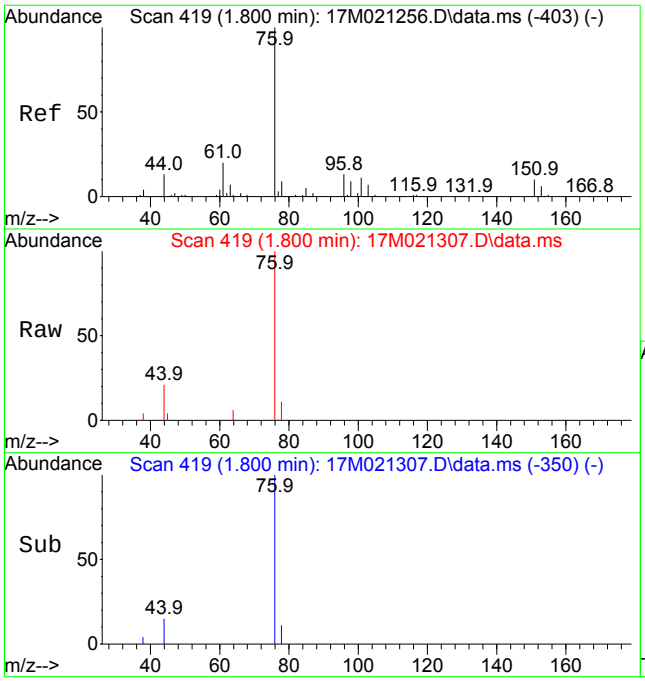


#3
Chloromethane
Concen: 1.5164 ug/L
RT: 1.120 min Scan# 184
Delta R.T. 0.015 min
Lab File: 17M021307.D
Acq: 21 May 2016 18:20

Tgt Ion: 50 Resp: 7734

Ion	Ratio	Lower	Upper
50	100		
52	0.0	19.4	45.4#

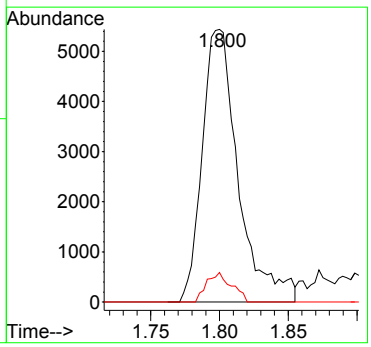


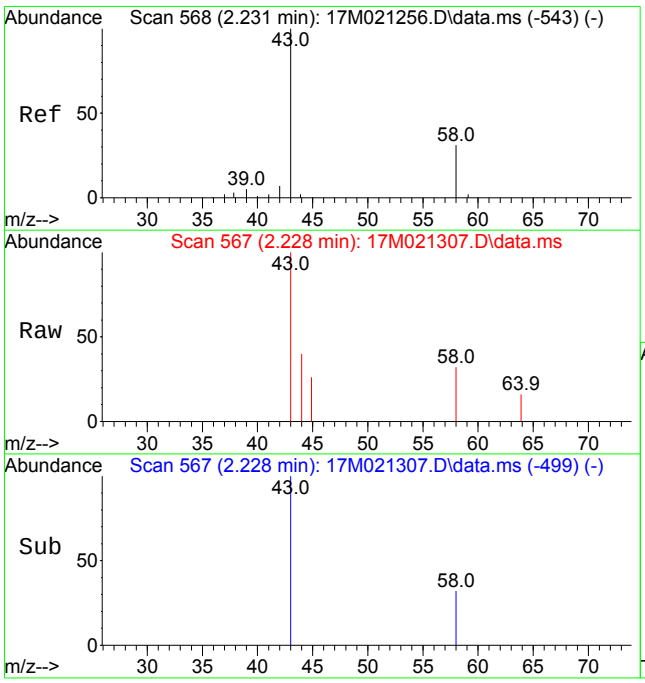


#11
Carbon Disulfide
Concen: 0.8208 ug/L
RT: 1.800 min Scan# 419
Delta R.T. -0.000 min
Lab File: 17M021307.D
Acq: 21 May 2016 18:20

Tgt Ion: 76 Resp: 9939

Ion	Ratio	Lower	Upper
76	100		
78	7.5	7.9	11.9#

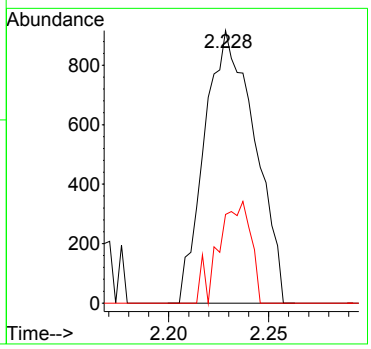




#16
Acetone
Concen: 2.5859 ug/L
RT: 2.228 min Scan# 567
Delta R.T. -0.003 min
Lab File: 17M021307.D
Acq: 21 May 2016 18:20

Tgt Ion: 43 Resp: 1603

Ion	Ratio	Lower	Upper
43	100		
58	23.8	17.6	41.2



Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021287.D Vial: 33
Acq On : 21 May 2016 02:23 Operator: ADC
Sample : L16050763-12 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:53 2016

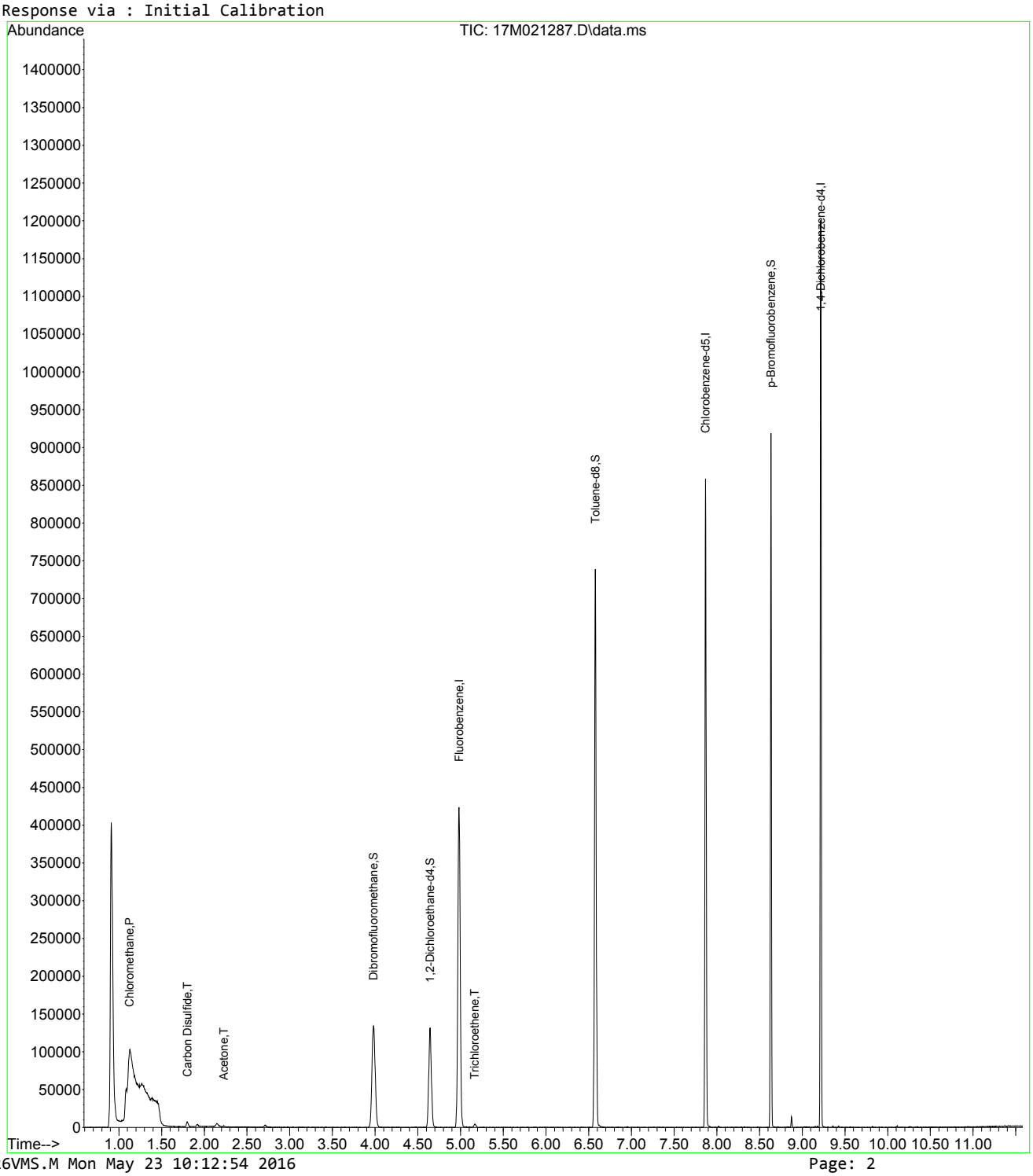
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	397499	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	300988	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	164165	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.980	111	110810	26.3206	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.282%			
34) 1,2-Dichloroethane-d4	4.643	65	104729	26.9036	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 107.614%			
47) Toluene-d8	6.577	98	408929	25.4405	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.762%			
66) p-Bromofluorobenzene	8.633	95	148923	26.2372	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.949%			
Target Compounds						Qvalue
3) Chloromethane	1.122	50	6845	1.3233	ug/L #	42
11) Carbon Disulfide	1.803	76	8495	0.6918	ug/L #	92
16) Acetone	2.228	43	1400	2.2268	ug/L	93
37) Trichloroethene	5.164	130	1721	0.2925	ug/L	85

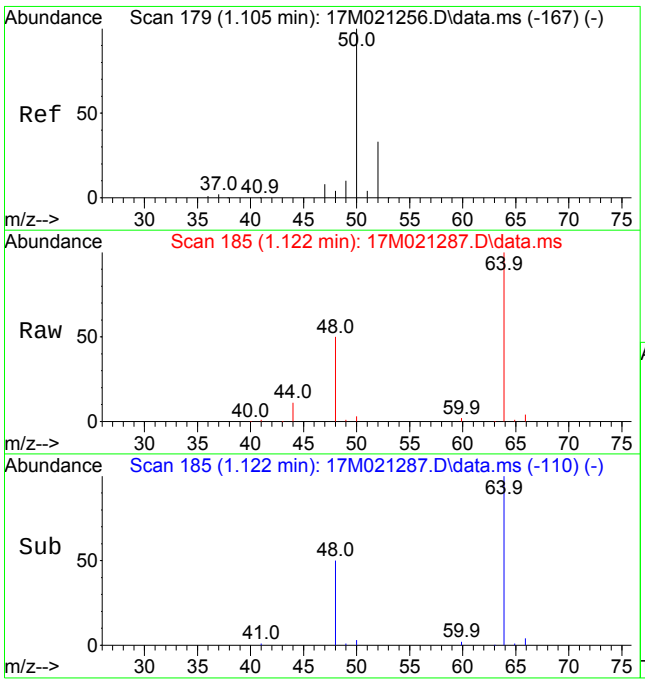
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021287.D Vial: 33
Acq On : 21 May 2016 02:23 Operator: ADC
Sample : L16050763-12 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:53 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



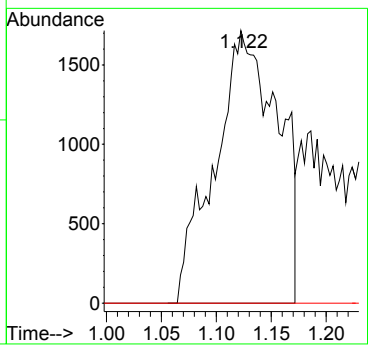
826VMS.M Mon May 23 10:12:54 2016 Page: 2

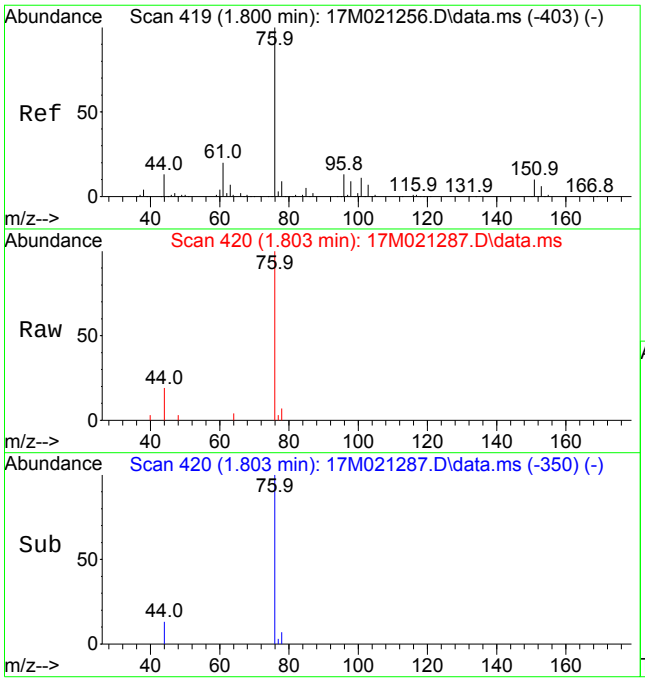


#3
Chloromethane
Concen: 1.3233 ug/L
RT: 1.122 min Scan# 185
Delta R.T. 0.017 min
Lab File: 17M021287.D
Acq: 21 May 2016 02:23

Tgt Ion: 50 Resp: 6845

Ion	Ratio	Lower	Upper
50	100		
52	0.0	19.4	45.4#

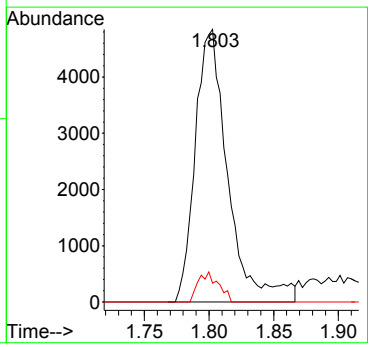


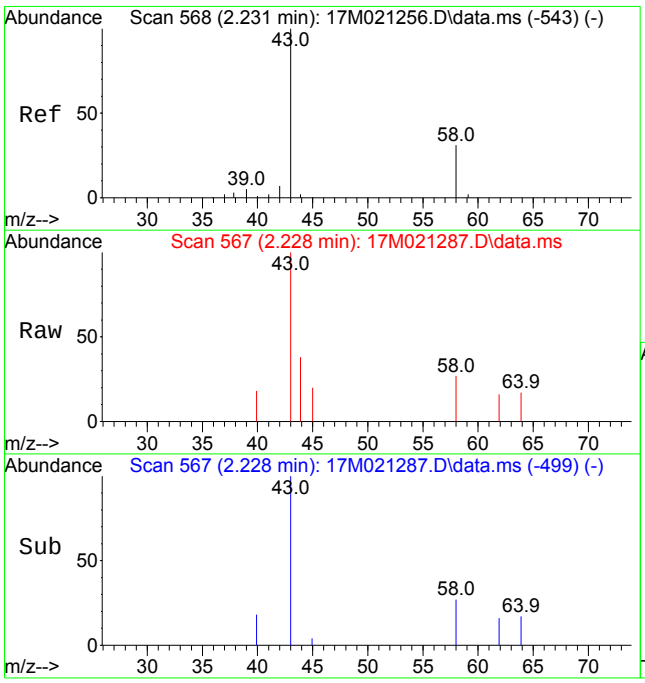


#11
Carbon Disulfide
Concen: 0.6918 ug/L
RT: 1.803 min Scan# 420
Delta R.T. 0.003 min
Lab File: 17M021287.D
Acq: 21 May 2016 02:23

Tgt Ion: 76 Resp: 8495

Ion	Ratio	Lower	Upper
76	100		
78	6.8	7.9	11.9#

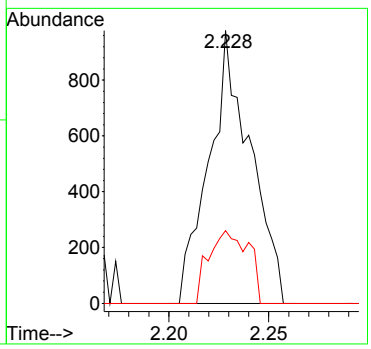


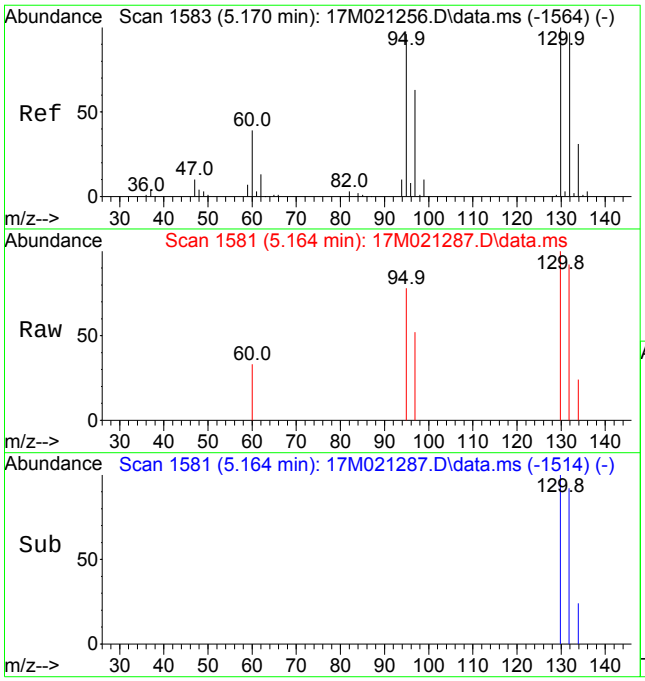


#16
Acetone
Concen: 2.2268 ug/L
RT: 2.228 min Scan# 567
Delta R.T. -0.003 min
Lab File: 17M021287.D
Acq: 21 May 2016 02:23

Tgt Ion: 43 Resp: 1400

Ion	Ratio	Lower	Upper
43	100		
58	25.6	17.6	41.2

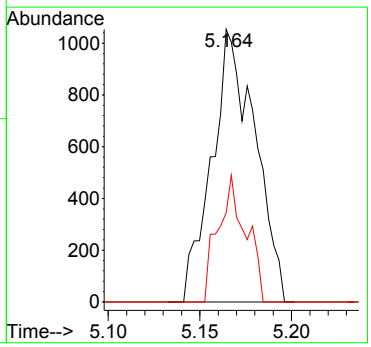




#37
Trichloroethene
Concen: 0.2925 ug/L
RT: 5.164 min Scan# 1581
Delta R.T. -0.006 min
Lab File: 17M021287.D
Acq: 21 May 2016 02:23

Tgt Ion:130 Resp: 1721

Ion	Ratio	Lower	Upper
130	100		
60	30.0	23.6	55.2



Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021288.D Vial: 34
Acq On : 21 May 2016 02:42 Operator: ADC
Sample : L16050763-13 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:56 2016

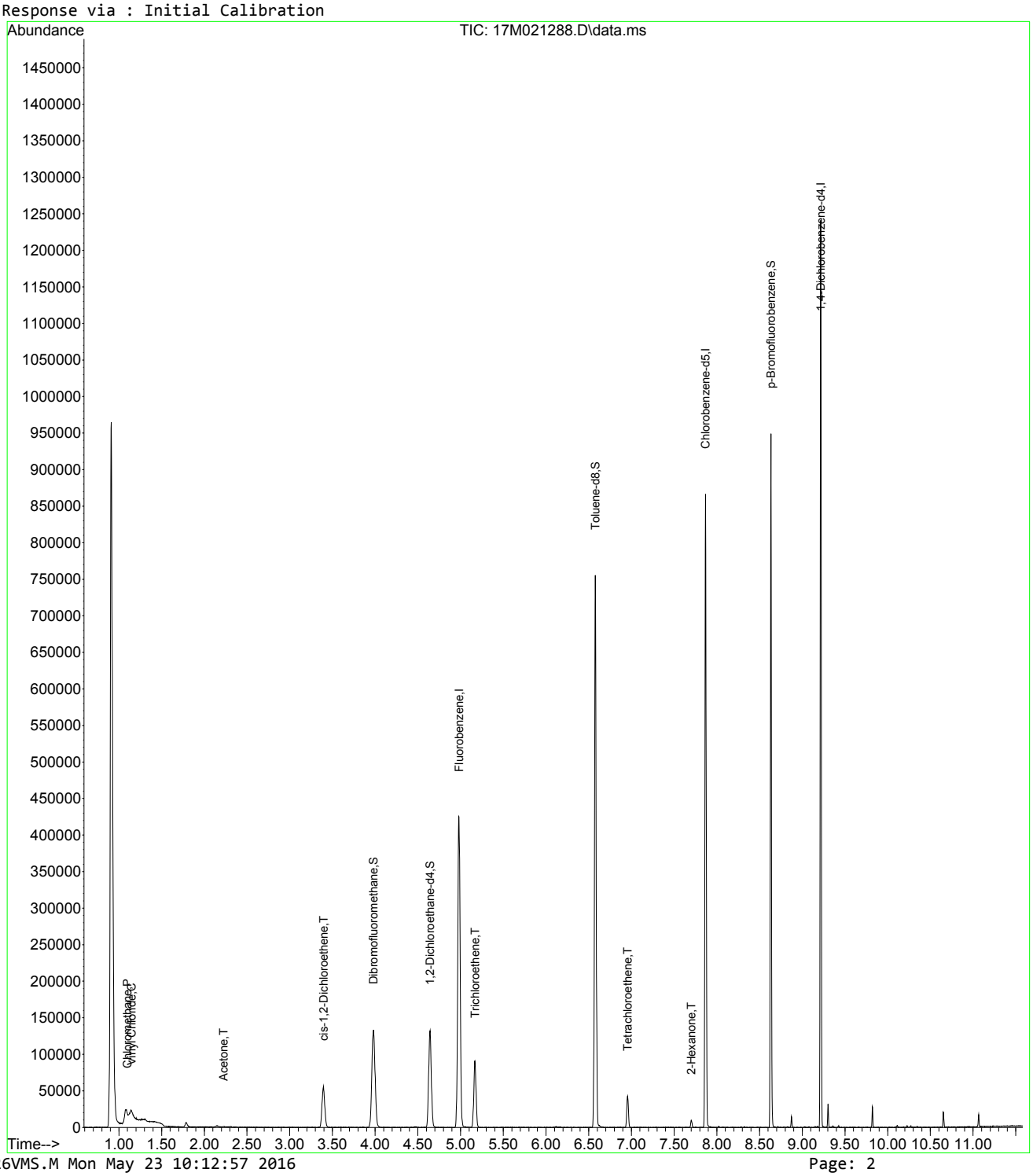
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	404890	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	305751	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	167209	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.980	111	109544	25.5449	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.180%			
34) 1,2-Dichloroethane-d4	4.643	65	107956	27.2263	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 108.905%			
47) Toluene-d8	6.577	98	415480	25.4454	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.782%			
66) p-Bromofluorobenzene	8.633	95	151167	26.1477	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.591%			
Target Compounds						Qvalue
3) Chloromethane	1.099	50	1074	0.2038	ug/L #	42
4) Vinyl Chloride	1.149	62	3529	0.6692	ug/L #	1
16) Acetone	2.226	43	745	1.1633	ug/L #	45
23) cis-1,2-Dichloroethene	3.395	96	30261	6.3065	ug/L	100
37) Trichloroethene	5.170	130	31880	5.3195	ug/L	99
49) Tetrachloroethene	6.957	166	10497	1.8566	ug/L	98
54) 2-Hexanone	7.701	43	1064	0.6625	ug/L #	26

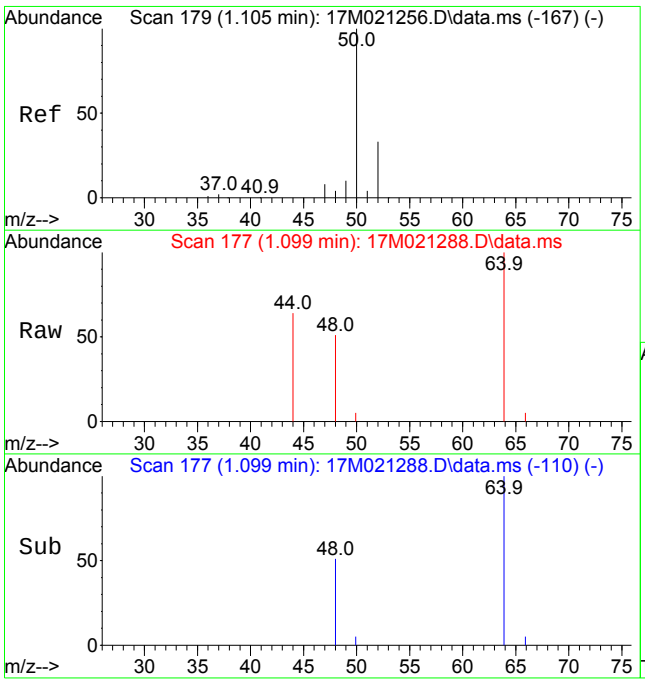
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021288.D Vial: 34
Acq On : 21 May 2016 02:42 Operator: ADC
Sample : L16050763-13 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:56 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



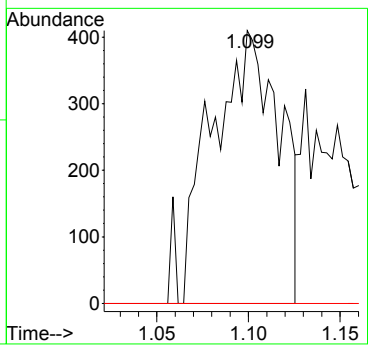
826VMS.M Mon May 23 10:12:57 2016 Page: 2

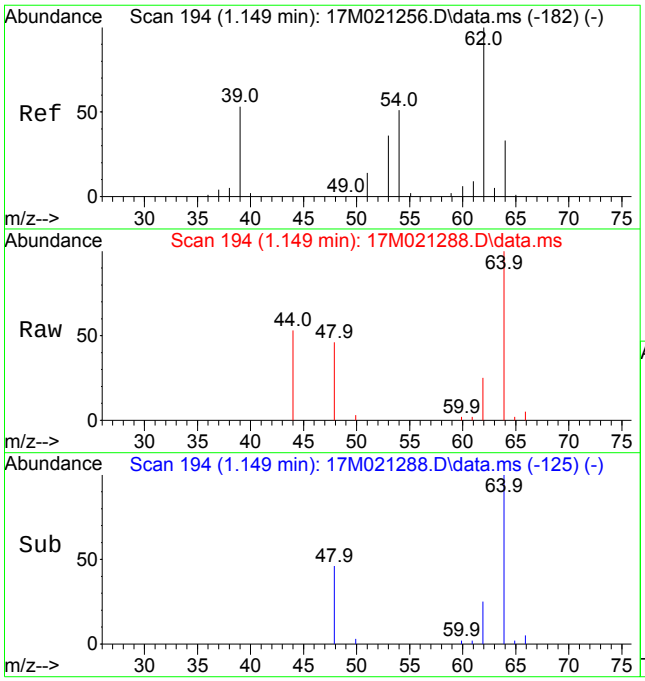


#3
Chloromethane
Concen: 0.2038 ug/L
RT: 1.099 min Scan# 177
Delta R.T. -0.006 min
Lab File: 17M021288.D
Acq: 21 May 2016 02:42

Tgt Ion: 50 Resp: 1074

Ion	Ratio	Lower	Upper
50	100		
52	0.0	19.4	45.4#

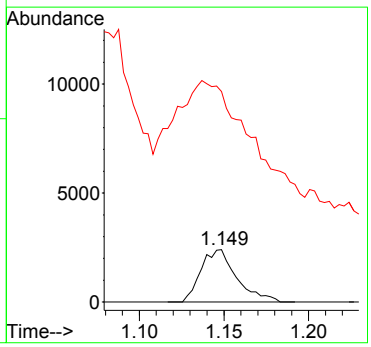


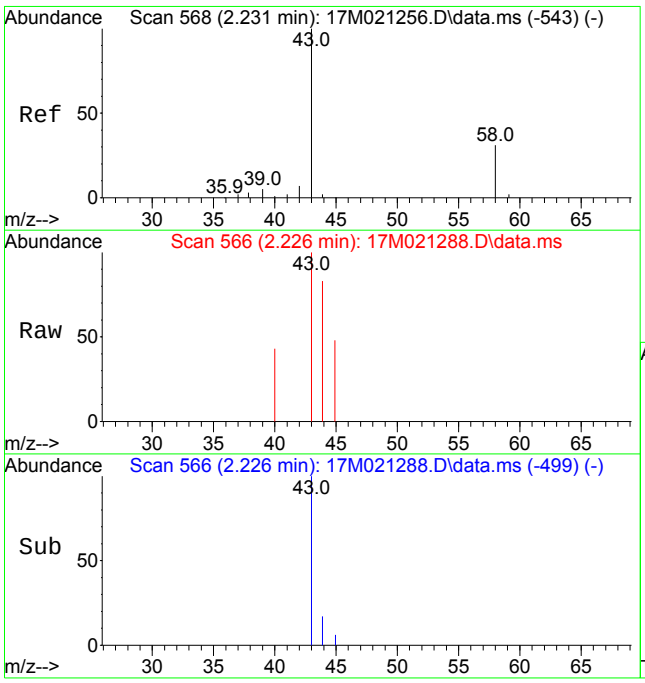


#4
Vinyl Chloride
Concen: 0.6692 ug/L
RT: 1.149 min Scan# 194
Delta R.T. -0.000 min
Lab File: 17M021288.D
Acq: 21 May 2016 02:42

Tgt Ion: 62 Resp: 3529

Ion	Ratio	Lower	Upper
62	100		
64	874.3	19.2	44.8#

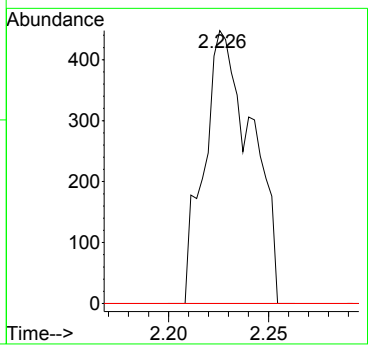


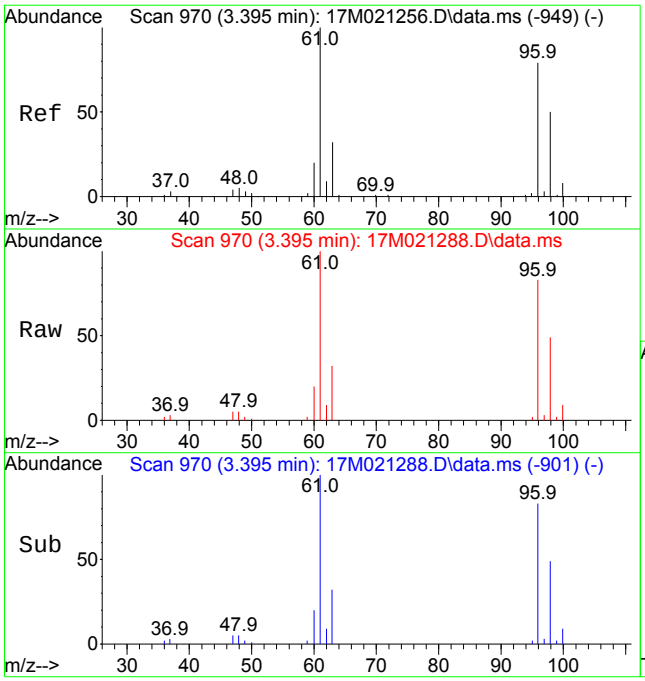


#16
Acetone
Concen: 1.1633 ug/L
RT: 2.226 min Scan# 566
Delta R.T. -0.005 min
Lab File: 17M021288.D
Acq: 21 May 2016 02:42

Tgt Ion: 43 Resp: 745

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.6	41.2#

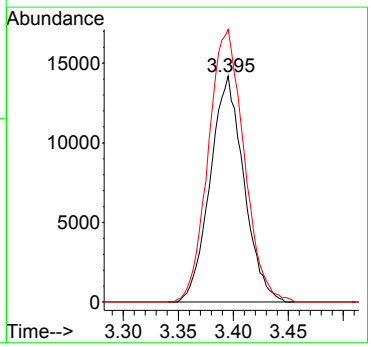


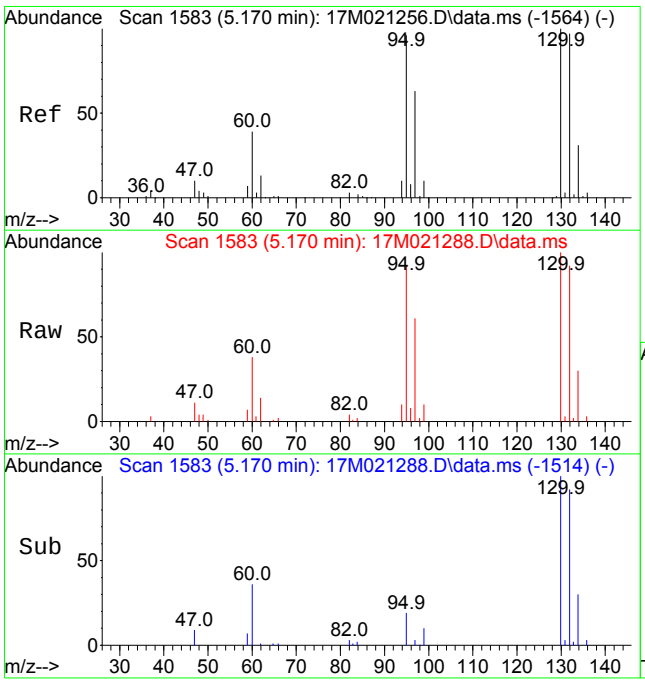


#23
cis-1,2-Dichloroethene
Concen: 6.3065 ug/L
RT: 3.395 min Scan# 970
Delta R.T. 0.000 min
Lab File: 17M021288.D
Acq: 21 May 2016 02:42

Tgt Ion: 96 Resp: 30261

Ion	Ratio	Lower	Upper
96	100		
61	128.0	102.6	154.0

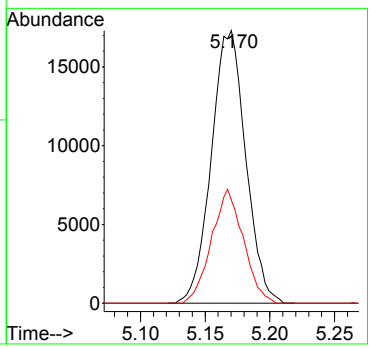


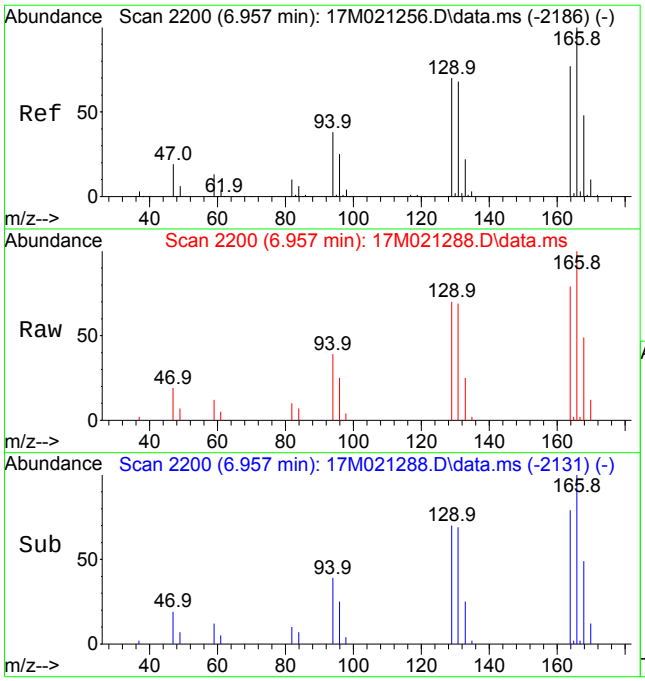


#37
Trichloroethene
Concen: 5.3195 ug/L
RT: 5.170 min Scan# 1583
Delta R.T. 0.000 min
Lab File: 17M021288.D
Acq: 21 May 2016 02:42

Tgt Ion:130 Resp: 31880

Ion	Ratio	Lower	Upper
130	100		
60	38.8	23.6	55.2

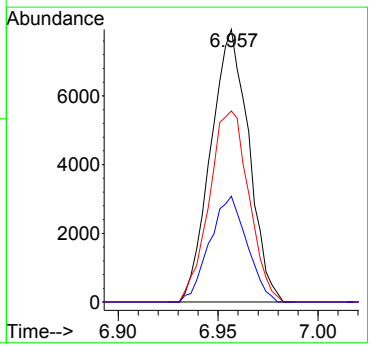


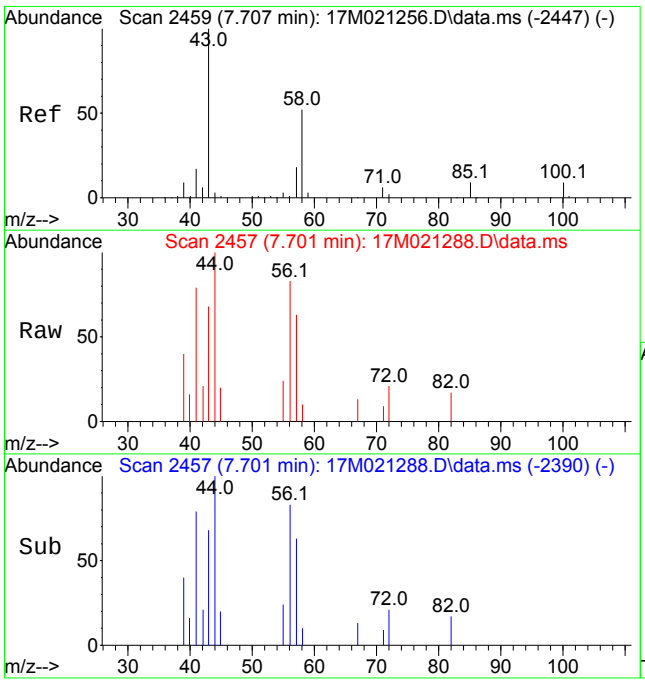


#49
Tetrachloroethene
Concen: 1.8566 ug/L
RT: 6.957 min Scan# 2200
Delta R.T. -0.000 min
Lab File: 17M021288.D
Acq: 21 May 2016 02:42

Tgt Ion:166 Resp: 10497

Ion	Ratio	Lower	Upper
166	100		
129	73.0	56.7	85.1
94	38.1	30.7	46.1

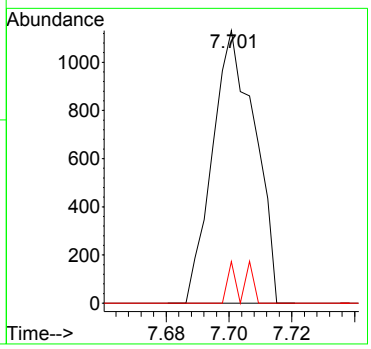




#54
2-Hexanone
Concen: 0.6625 ug/L
RT: 7.701 min Scan# 2457
Delta R.T. -0.006 min
Lab File: 17M021288.D
Acq: 21 May 2016 02:42

Tgt Ion: 43 Resp: 1064

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.4	62.2#



Data File : D:\MassHunter\GCMS\1\data\052016\17M021278.D Vial: 24
Acq On : 20 May 2016 23:25 Operator: ADC
Sample : L16050763-14 A RS 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:20 2016

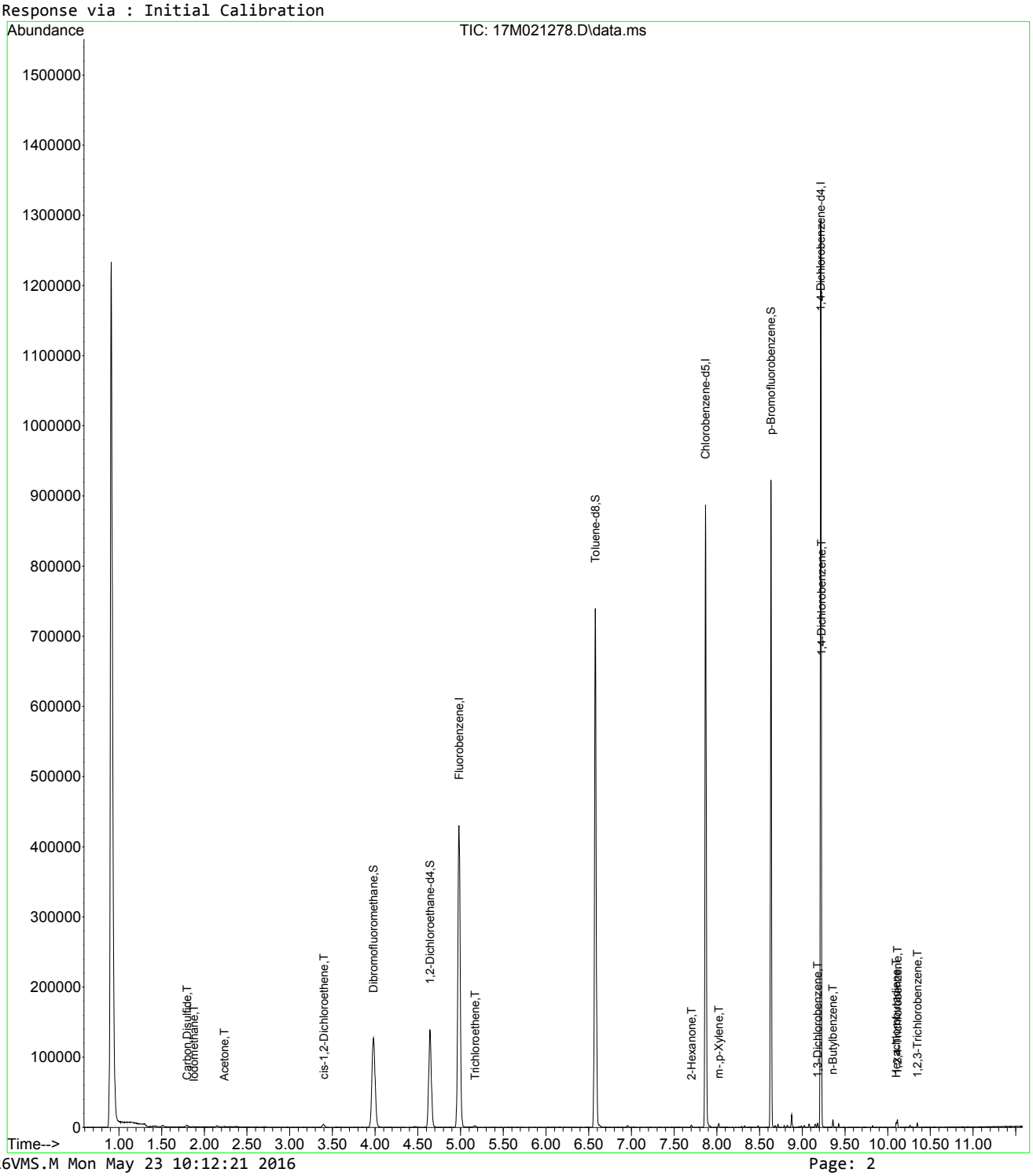
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	405963	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	309575	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	172172	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.980	111	104064	24.2029	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 96.812%			
34) 1,2-Dichloroethane-d4	4.640	65	110213	27.7220	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 110.888%			
47) Toluene-d8	6.577	98	411902	24.9147	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.659%			
66) p-Bromofluorobenzene	8.633	95	150358	25.2581	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.032%			
Target Compounds						Qvalue
11) Carbon Disulfide	1.800	76	1992	0.1588	ug/L #	73
13) Iodomethane	1.875	142	375	1.1442	ug/L #	34
16) Acetone	2.231	43	612	0.9531	ug/L #	45
23) cis-1,2-Dichloroethene	3.398	96	2476	0.5146	ug/L	95
37) Trichloroethene	5.170	130	749	0.1246	ug/L #	70
54) 2-Hexanone	7.703	43	386	0.2374	ug/L #	26
59) m-,p-Xylene	8.022	106	1028	0.1276	ug/L	94
78) 1,3-Dichlorobenzene	9.180	146	1428	0.1307	ug/L	99
79) 1,4-Dichlorobenzene	9.224	146	1858	0.1648	ug/L #	61
80) n-Butylbenzene	9.357	91	3300	0.1948	ug/L	96
83) Hexachlorobutadiene	10.101	225	845	0.2123	ug/L	93
84) 1,2,4-Trichlorobenzene	10.115	180	1946	0.2565	ug/L	95
86) 1,2,3-Trichlorobenzene	10.347	180	1226	0.1843	ug/L	93

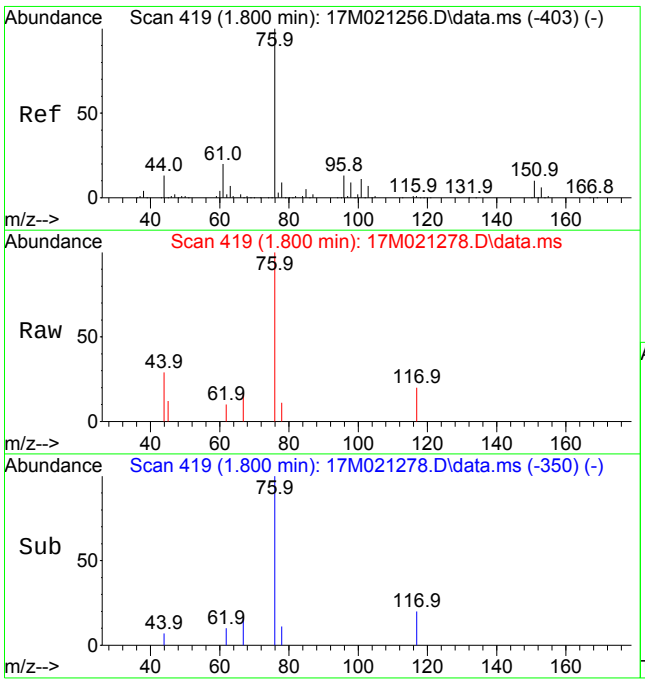
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021278.D Vial: 24
Acq On : 20 May 2016 23:25 Operator: ADC
Sample : L16050763-14 A RS 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:20 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



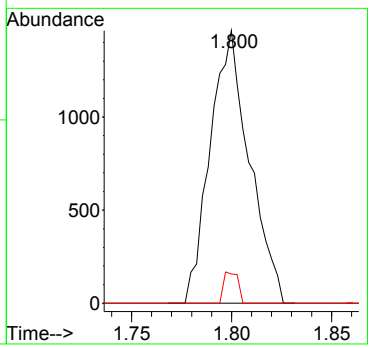
826VMS.M Mon May 23 10:12:21 2016 Page: 2

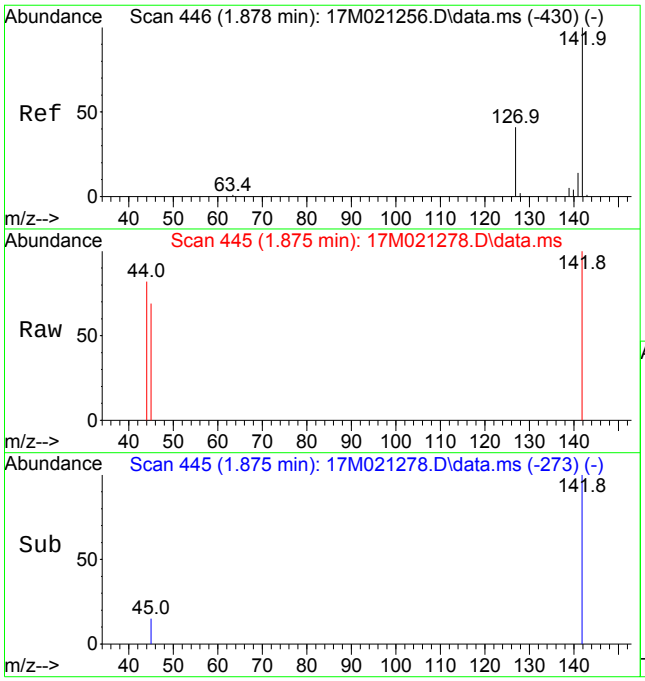


#11
Carbon Disulfide
Concen: 0.1588 ug/L
RT: 1.800 min Scan# 419
Delta R.T. -0.000 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion: 76 Resp: 1992

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.9	11.9#

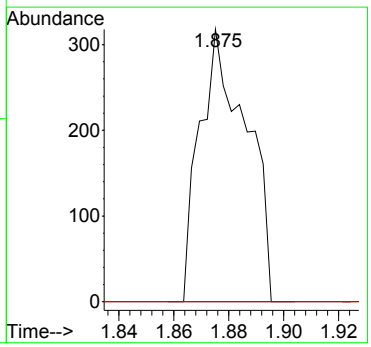


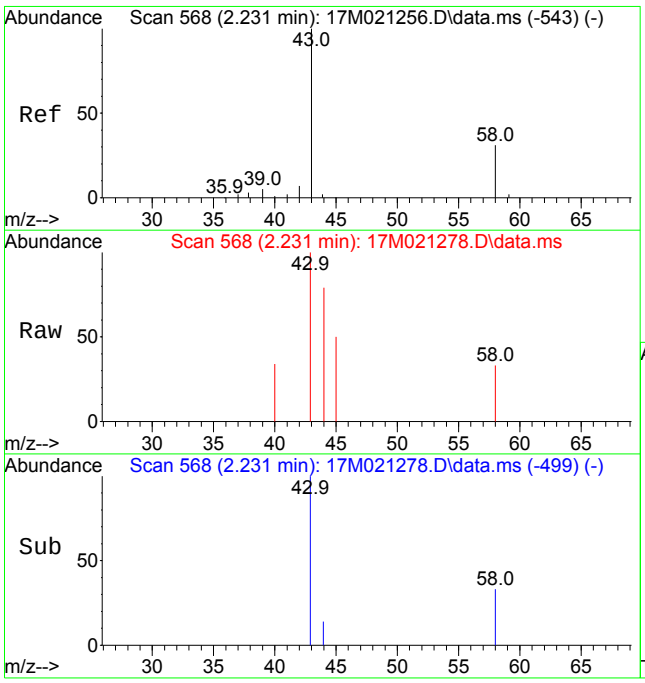


#13
Iodomethane
Concen: 1.1442 ug/L
RT: 1.875 min Scan# 445
Delta R.T. -0.003 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion:142 Resp: 375

Ion	Ratio	Lower	Upper
142	100		
127	0.0	33.3	49.9#

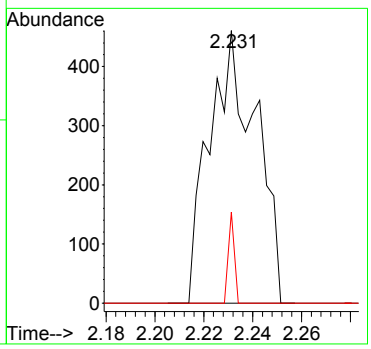


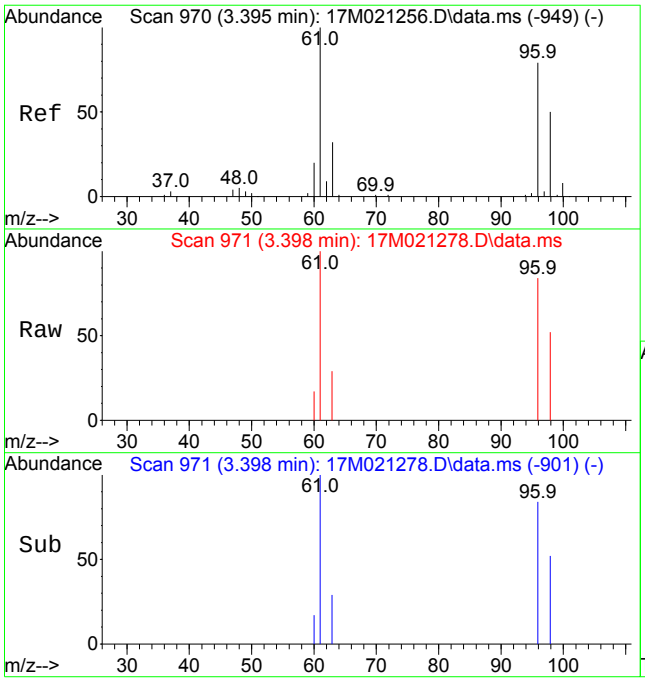


#16
Acetone
Concen: 0.9531 ug/L
RT: 2.231 min Scan# 568
Delta R.T. 0.000 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion: 43 Resp: 612

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.6	41.2#

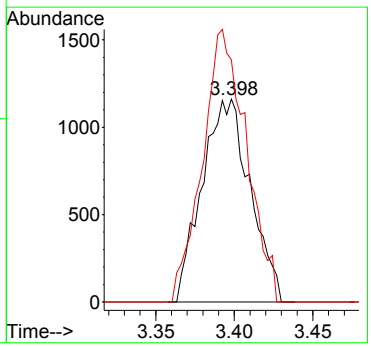


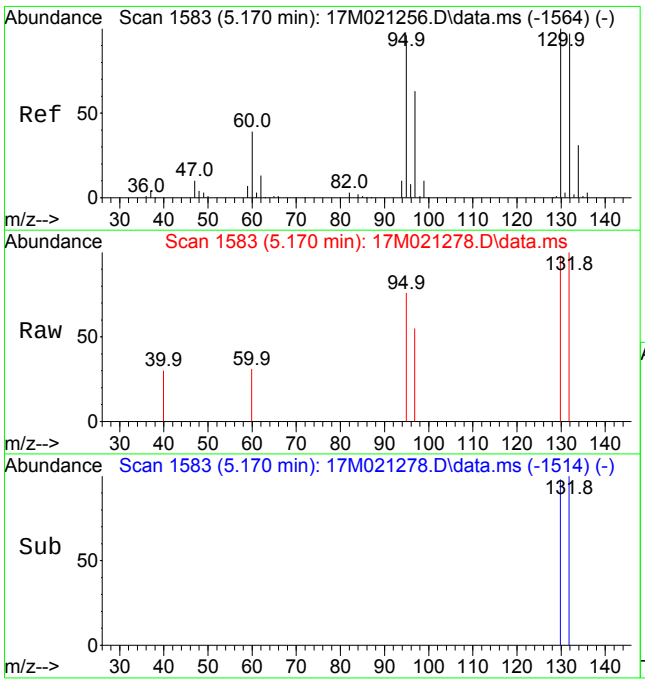


#23
cis-1,2-Dichloroethene
Concen: 0.5146 ug/L
RT: 3.398 min Scan# 971
Delta R.T. 0.003 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion: 96 Resp: 2476

Ion	Ratio	Lower	Upper
96	100		
61	122.1	102.6	154.0

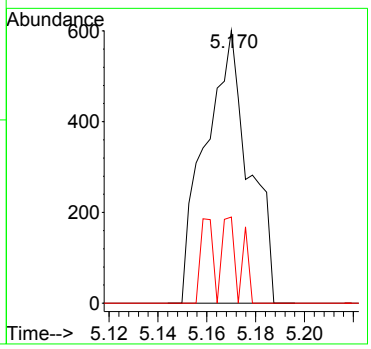


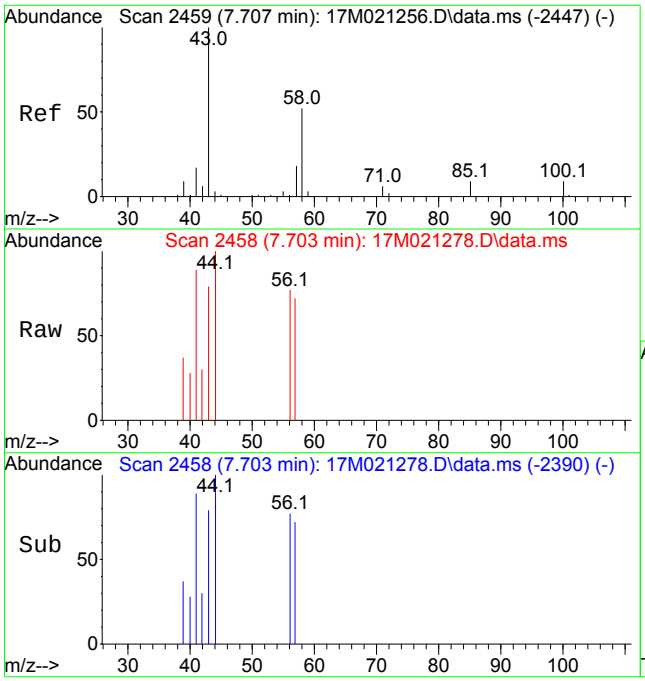


#37
Trichloroethene
Concen: 0.1246 ug/L
RT: 5.170 min Scan# 1583
Delta R.T. 0.000 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion:130 Resp: 749

Ion	Ratio	Lower	Upper
130	100		
60	21.2	23.6	55.2#

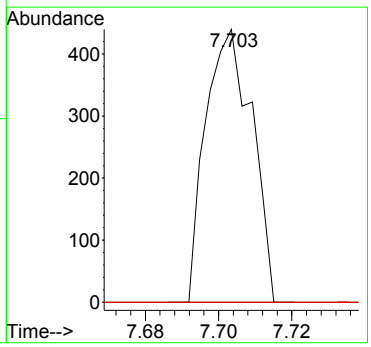


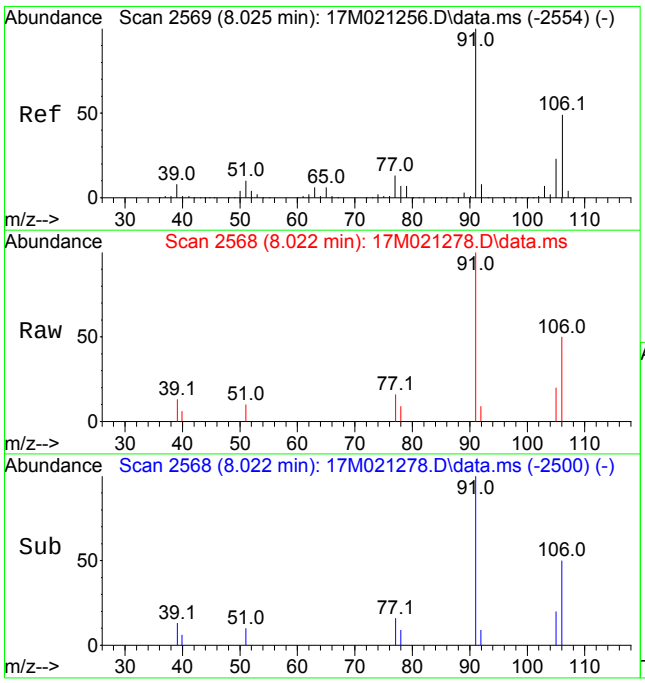


#54
2-Hexanone
Concen: 0.2374 ug/L
RT: 7.703 min Scan# 2458
Delta R.T. -0.004 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion: 43 Resp: 386

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.4	62.2#

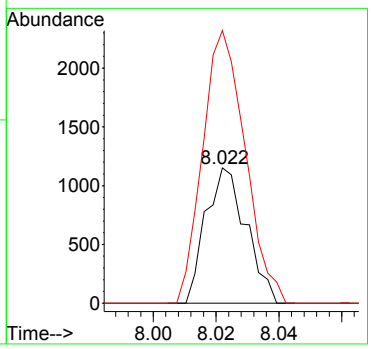


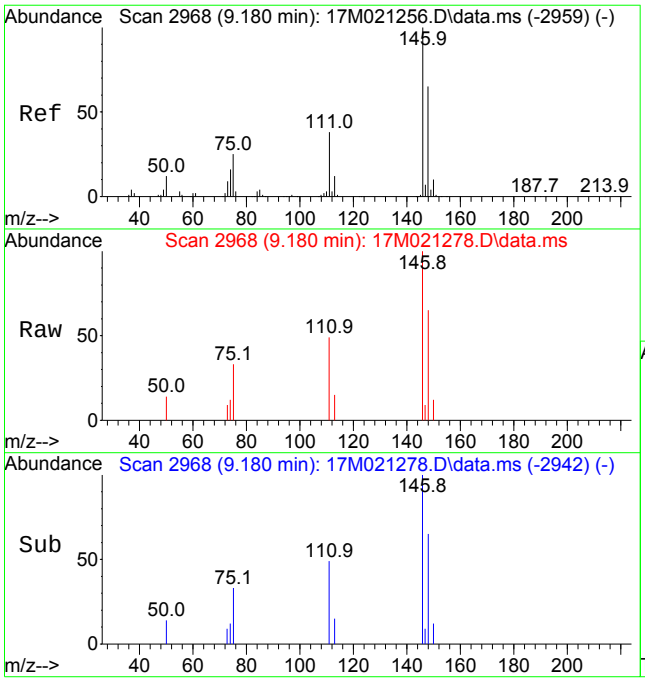


#59
m-,p-Xylene
Concen: 0.1276 ug/L
RT: 8.022 min Scan# 2568
Delta R.T. -0.003 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion:106 Resp: 1028

Ion	Ratio	Lower	Upper
106	100		
91	212.2	121.7	283.9

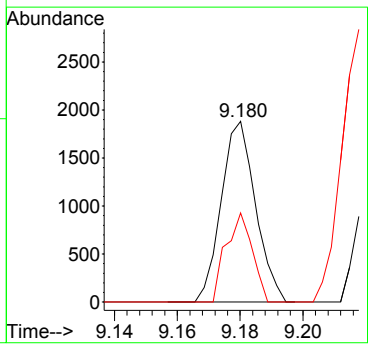


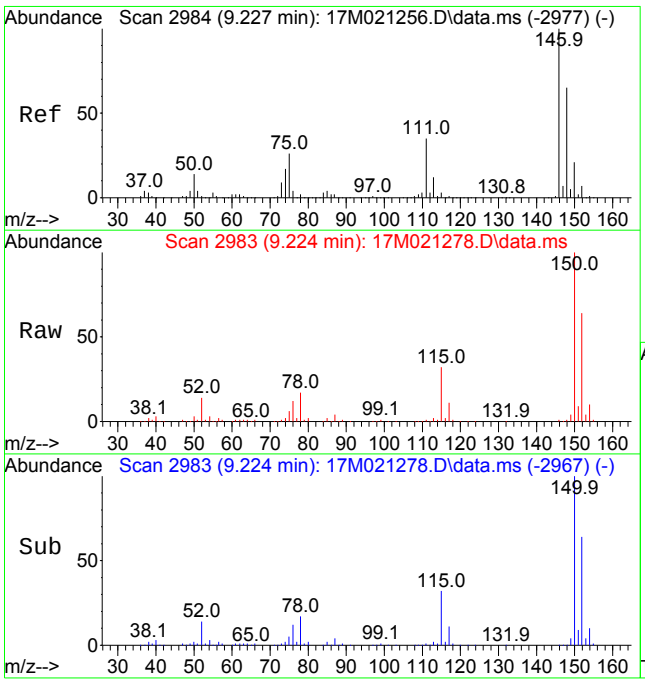


#78
1,3-Dichlorobenzene
Concen: 0.1307 ug/L
RT: 9.180 min Scan# 2968
Delta R.T. 0.000 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion:146 Resp: 1428

Ion	Ratio	Lower	Upper
146	100		
111	37.7	22.4	52.2

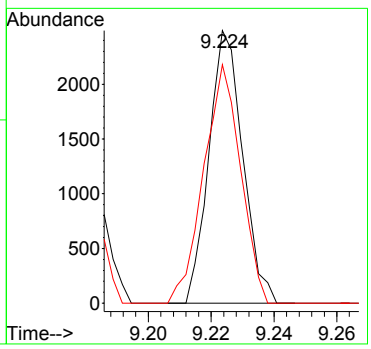


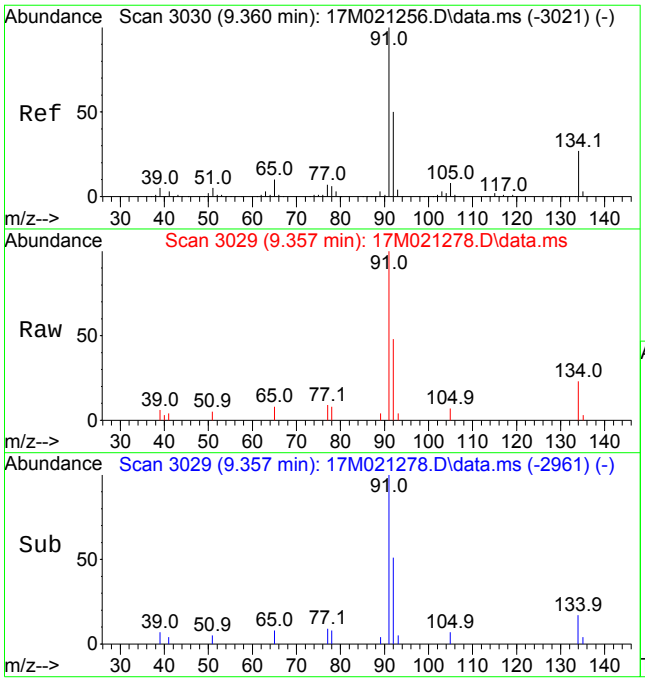


#79
1,4-Dichlorobenzene
Concen: 0.1648 ug/L
RT: 9.224 min Scan# 2983
Delta R.T. -0.003 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion:146 Resp: 1858

Ion	Ratio	Lower	Upper
146	100		
148	95.5	51.6	77.4#

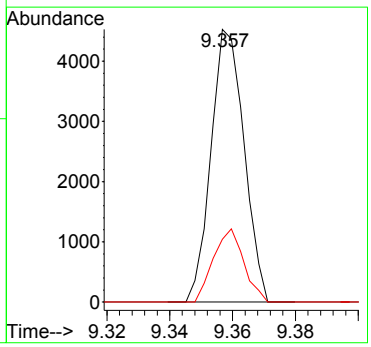


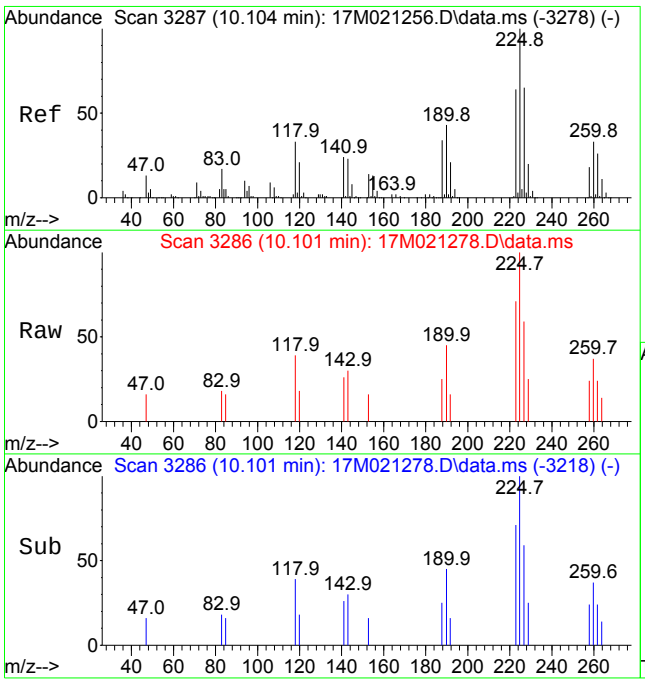


#80
n-Butylbenzene
Concen: 0.1948 ug/L
RT: 9.357 min Scan# 3029
Delta R.T. -0.003 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion: 91 Resp: 3300

Ion	Ratio	Lower	Upper
91	100		
134	24.6	16.1	37.5

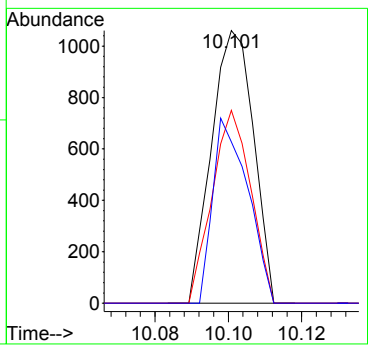


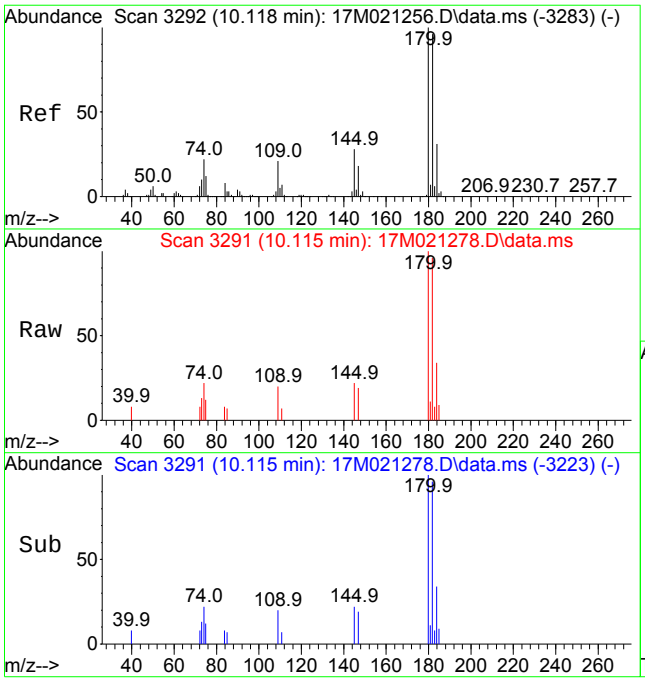


#83
Hexachlorobutadiene
Concen: 0.2123 ug/L
RT: 10.101 min Scan# 3286
Delta R.T. -0.003 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion:225 Resp: 845

Ion	Ratio	Lower	Upper
225	100		
223	64.9	50.1	75.1
227	56.4	51.8	77.8

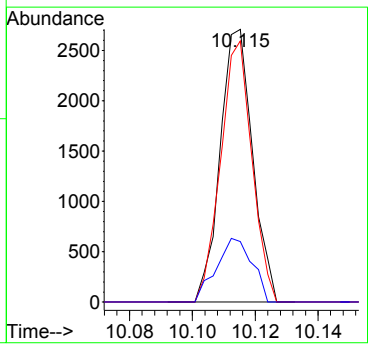


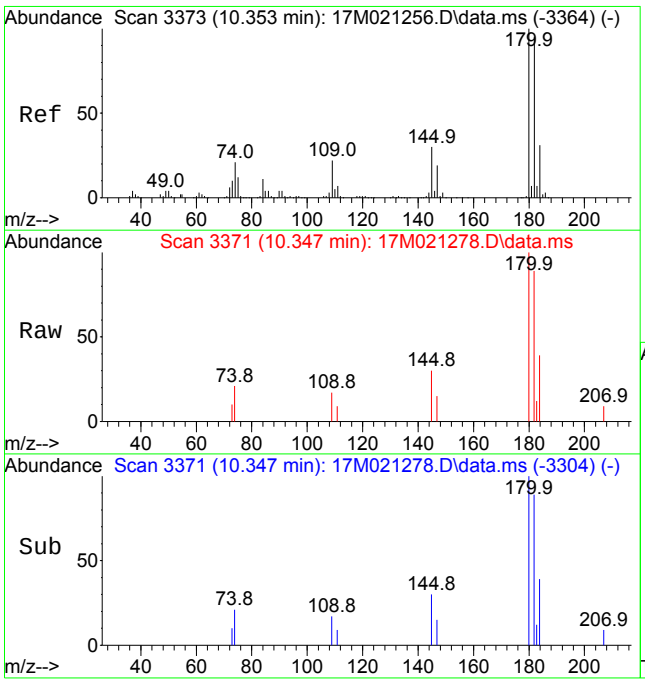


#84
1,2,4-Trichlorobenzene
Concen: 0.2565 ug/L
RT: 10.115 min Scan# 3291
Delta R.T. -0.003 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion:180 Resp: 1946

Ion	Ratio	Lower	Upper
180	100		
182	92.5	57.5	134.1
145	25.8	19.4	45.2

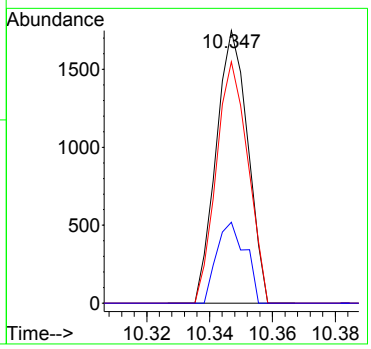




#86
1,2,3-Trichlorobenzene
Concen: 0.1843 ug/L
RT: 10.347 min Scan# 3371
Delta R.T. -0.006 min
Lab File: 17M021278.D
Acq: 20 May 2016 23:25

Tgt Ion:180 Resp: 1226

Ion	Ratio	Lower	Upper
180	100		
182	88.3	57.4	134.0
145	27.0	17.8	41.4



Quantitation Report (QT Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021274.D Vial: 20
Acq On : 20 May 2016 22:06 Operator: ADC
Sample : L16050763-15 A MS 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:51 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.979	96	371634	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.868	117	282082	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	156299	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.980	111	101450	25.7745	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 103.098%			
34) 1,2-Dichloroethane-d4	4.643	65	93234	25.6175	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 102.470%			
47) Toluene-d8	6.577	98	383338	25.4468	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.787%			
66) p-Bromofluorobenzene	8.633	95	138681	25.6624	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.650%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.998	85	51980	9.6154	ug/L	99
3) Chloromethane	1.105	50	79169	16.3709	ug/L	100
4) Vinyl Chloride	1.145	62	71486	14.7697	ug/L	100
5) 1,3-Butadiene	1.157	54	4961	1.2715	ug/L	99
6) Bromomethane	1.322	94	47101	15.3757	ug/L	99
7) Chloroethane	1.389	64	30823	14.2033	ug/L	94
8) Trichlorofluoromethane	1.467	101	82300	12.8536	ug/L	97
9) Diethyl ether	1.669	59	1397	0.5627	ug/L	96
10) 1,1-Dichloroethene	1.782	61	83119	13.7217	ug/L	100
11) Carbon Disulfide	1.797	76	198840	17.3188	ug/L	99
12) 1,1,2-Trichloro-1,2,2-...	1.811	101	46908	12.5927	ug/L	100
13) Iodomethane	1.875	142	77911	14.5783	ug/L	99
14) Acrolein	2.014	56	202	0.4591	ug/L #	13
15) Methylene Chloride	2.185	84	69600	17.1708	ug/L	99
16) Acetone	2.231	43	14107	23.9999	ug/L	100
17) trans-1,2-Dichloroethene	2.306	96	63931	16.1856	ug/L	99
18) Methyl acetate	2.335	43	33128	17.4415	ug/L #	91
19) Methyl Tert Butyl Ether	2.411	73	176956	20.7014	ug/L #	62
20) 1,1-Dichloroethane	2.833	63	119478	16.1431	ug/L	100
21) Acrylonitrile	2.888	53	17237	21.3432	ug/L	99
23) cis-1,2-Dichloroethene	3.395	96	80950	18.3799	ug/L	100
24) 2,2-Dichloropropane	3.517	77	87946	14.9978	ug/L	100
25) Cyclohexane	3.612	56	89366	14.2476	ug/L #	68
26) Bromochloromethane	3.624	130	48671	18.1668	ug/L	100
27) Chloroform	3.745	83	126557	17.2139	ug/L	99
28) Carbon Tetrachloride	3.884	117	85824	15.4248	ug/L	99
30) 1,1,1-Trichloroethane	3.983	97	103148	15.7132	ug/L	100
31) 1,1-Dichloropropene	4.157	75	80478	14.9960	ug/L	99
32) 2-Butanone	4.183	43	20307	21.8290	ug/L #	87
33) Benzene	4.469	78	279465	17.1755	ug/L	100
35) 1,2-Dichloroethane	4.724	62	86011	18.6674	ug/L	99
36) Methylcyclohexane	5.138	83	90014	13.8996	ug/L	99
37) Trichloroethene	5.170	130	85719	15.5829	ug/L	99
38) Dibromomethane	5.596	93	39805	17.9697	ug/L	100
39) 1,2-Dichloropropane	5.703	63	78214	18.2448	ug/L	100
40) Bromodichloromethane	5.798	83	95536	18.3572	ug/L	99
42) 2-Chloroethyl Vinyl Ether	6.409	63	1216	1.3897	ug/L	86
43) cis-1,3-Dichloropropene	6.409	75	114096	19.9940	ug/L	100
44) 4-Methyl-2-Pentanone	7.000	58	18063	21.9677	ug/L	95
45) trans-1,3-Dichloropropene	7.017	75	88098	19.0242	ug/L	100
48) Toluene	6.623	91	309209	17.2390	ug/L	100
49) Tetrachloroethene	6.956	166	80047	15.3459	ug/L	100
50) 1,1,2-Trichloroethane	7.147	97	57327	19.3178	ug/L	99
51) Dibromochloromethane	7.289	129	74929	18.2934	ug/L	100
52) 1,3-Dichloropropane	7.373	76	96299	20.1772	ug/L	100
53) 1,2-Dibromoethane	7.460	107	58105	19.5712	ug/L	100

Data File : D:\MassHunter\GCMS\1\data\052016\17M021274.D Vial: 20
Acq On : 20 May 2016 22:06 Operator: ADC
Sample : L16050763-15 A MS 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:51 2016

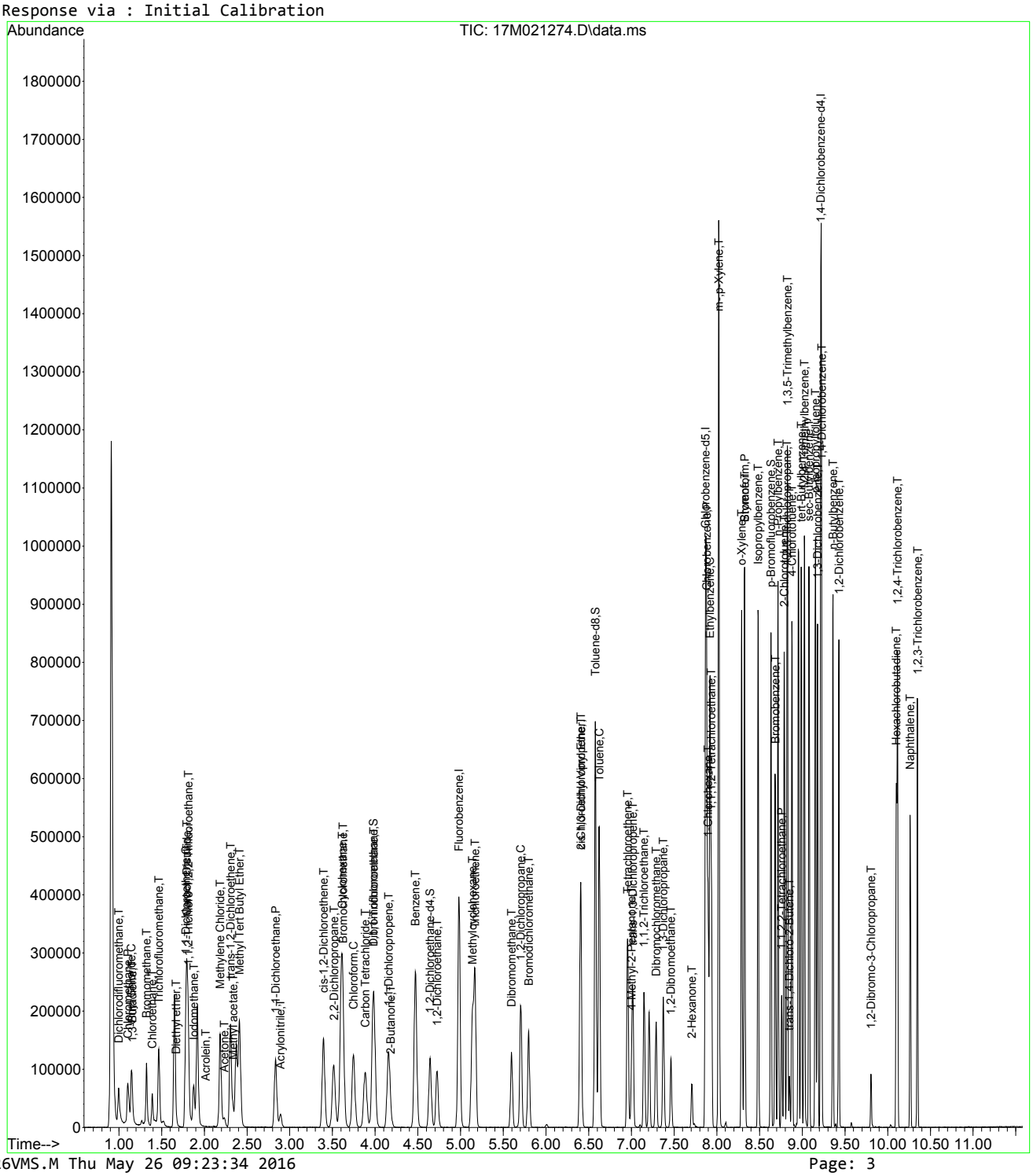
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 2-Hexanone	7.706	43	32174	21.7153	ug/L		98
55) Chlorobenzene	7.880	112	211551	17.9493	ug/L		100
56) 1-Chlorohexane	7.897	69	15755	16.1464	ug/L		77
57) Ethylbenzene	7.918	106	106485	17.1780	ug/L		95
58) 1,1,1,2-Tetrachloroethane	7.935	131	78088	18.9800	ug/L		100
59) m-,p-Xylene	8.022	106	259750	35.3887	ug/L		99
60) o-Xylene	8.291	106	131050	18.1925	ug/L		99
61) Styrene	8.326	104	214910	18.7066	ug/L		100
62) Bromoform	8.326	173	48035	18.3271	ug/L		100
63) Isopropylbenzene	8.482	105	327450	17.5470	ug/L		100
65) 1,3,5-Trimethylbenzene	8.827	105	285030	17.8647	ug/L		100
67) Bromobenzene	8.685	156	96458	17.6802	ug/L		99
68) n-Propylbenzene	8.717	91	376673	17.7036	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.760	83	56318	25.0061	ug/L		99
70) 2-Chlorotoluene	8.789	91	233788	17.8134	ug/L		100
71) 1,2,3-Trichloropropane	8.821	110	17846	20.0652	ug/L		99
72) trans-1,4-Dichloro-2-B...	8.850	53	8114	18.7526	ug/L	#	95
73) 1,2,4-Trimethylbenzene	9.024	105	284327	17.8079	ug/L		100
74) 4-Chlorotoluene	8.879	91	250572	18.4162	ug/L		99
75) tert-Butylbenzene	8.989	134	52384	17.4463	ug/L		98
76) sec-Butylbenzene	9.079	105	336597	16.9703	ug/L		100
77) p-Isopropyltoluene	9.154	119	285711	17.3126	ug/L		100
78) 1,3-Dichlorobenzene	9.180	146	178843	18.0283	ug/L		99
79) 1,4-Dichlorobenzene	9.226	146	180310m	17.6138	ug/L		
80) n-Butylbenzene	9.360	91	257473	16.7387	ug/L		100
81) 1,2-Dichlorobenzene	9.429	146	171492	18.4414	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.805	75	10658	22.3295	ug/L		99
83) Hexachlorobutadiene	10.101	225	57881	16.0171	ug/L		99
84) 1,2,4-Trichlorobenzene	10.115	180	129966	18.8695	ug/L		99
85) Naphthalene	10.263	128	205864	19.5854	ug/L		100
86) 1,2,3-Trichlorobenzene	10.350	180	117231	19.4105	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021274.D Vial: 20
Acq On : 20 May 2016 22:06 Operator: ADC
Sample : L16050763-15 A MS 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:51 2016

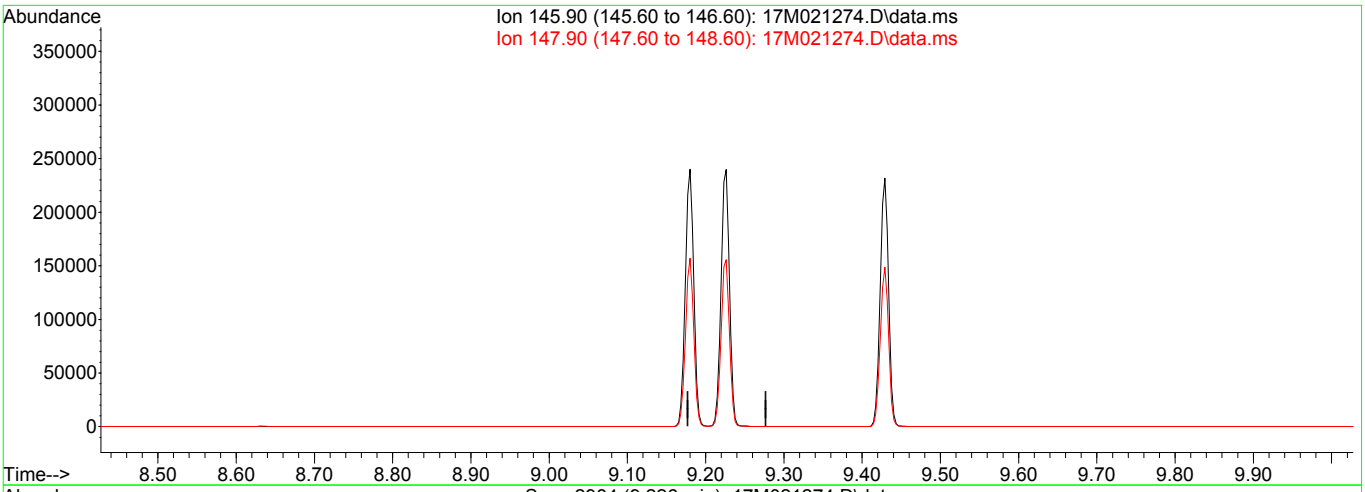
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

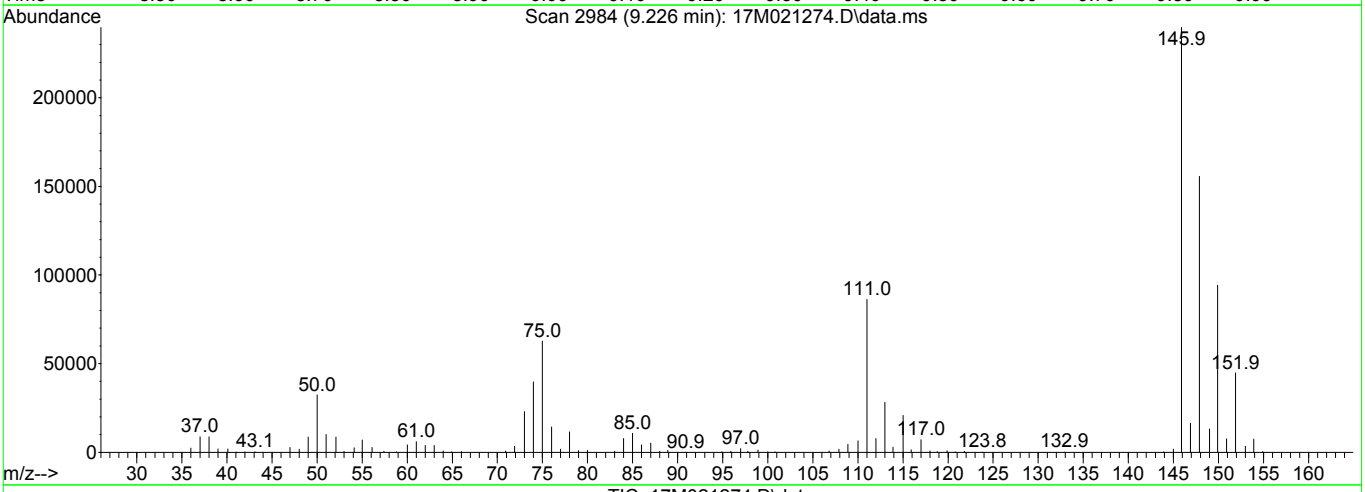


826VMS.M Thu May 26 09:23:34 2016 Page: 3

Data File : D:\MassHunter\GCMS\1\data\052016\17M021274.D Vial: 20
Acq On : 20 May 2016 22:06 Operator: ADC
Sample : L16050763-15 A MS 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:51 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration





TIC: 17M021274.D\data.ms

(79) 1,4-Dichlorobenzene (T)

9.227min (-9.227) 0.00 ug/L

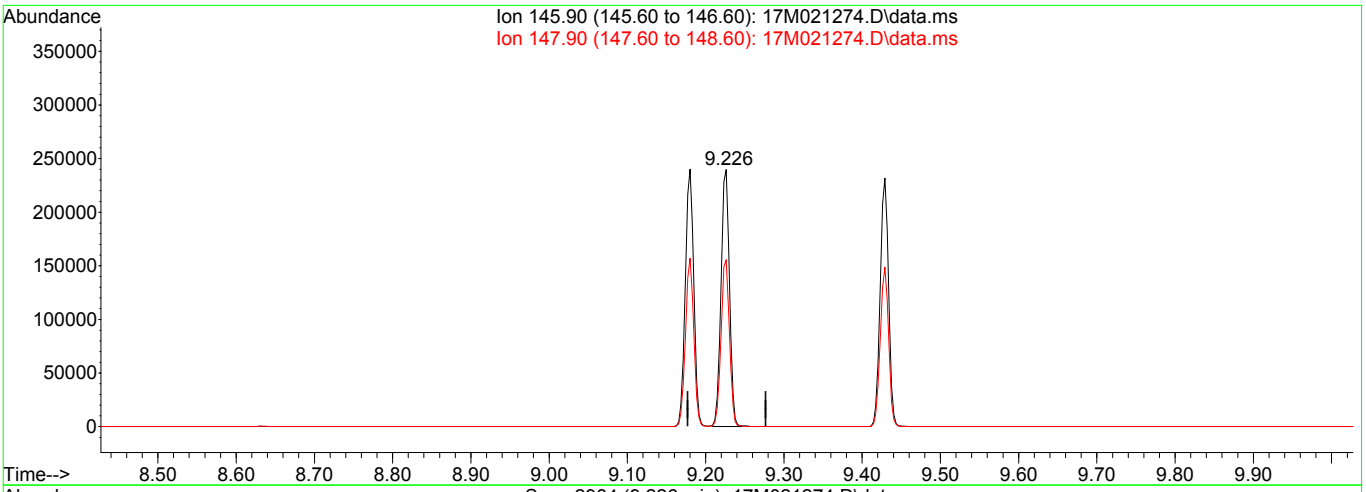
response 0

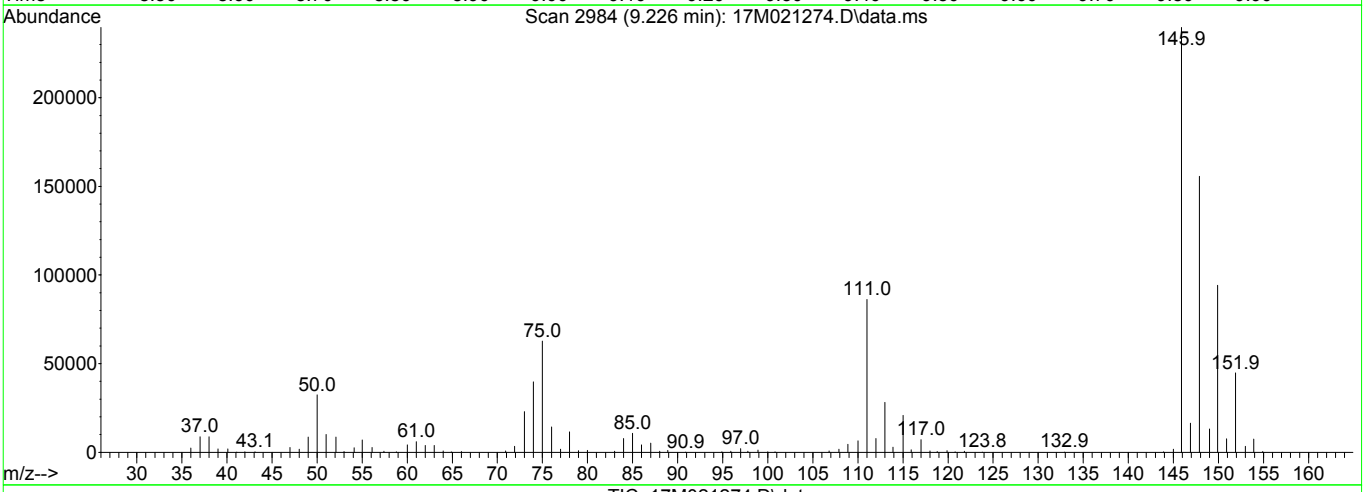
Ion	Exp%	Act%
145.90	100.00	0.00
147.90	64.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021274.D Vial: 20
Acq On : 20 May 2016 22:06 Operator: ADC
Sample : L16050763-15 A MS 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:51 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration





TIC: 17M021274.D\data.ms

(79) 1,4-Dichlorobenzene (T)

9.226min (-0.001) 17.61 ug/L mint

response 180310

Ion	Exp%	Act%
145.90	100.00	100.00
147.90	64.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

Analyst: 05/26/2016 09:25 Supervisor: 05/26/2016 09:44

#1 - Data system fails to select correct peak

826VMS.M Thu May 26 09:23:21 2016 Page: 1

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021275.D Vial: 21
Acq On : 20 May 2016 22:26 Operator: ADC
Sample : L16050763-16 A MSD 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:01 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.982	96	378798	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.868	117	287082	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	158901	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.980	111	103915	25.9014 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 103.606%		
34) 1,2-Dichloroethane-d4	4.643	65	96239	25.9431 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.772%		
47) Toluene-d8	6.577	98	392473	25.5995 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.398%		
66) p-Bromofluorobenzene	8.633	95	143219	26.0681 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.272%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.995	85	52405	9.5107 ug/L	99
3) Chloromethane	1.102	50	77926	15.8091 ug/L	100
4) Vinyl Chloride	1.146	62	70879	14.3674 ug/L	99
5) 1,3-Butadiene	1.154	54	4917	1.2364 ug/L	98
6) Bromomethane	1.322	94	47553	15.2296 ug/L	100
7) Chloroethane	1.389	64	30085	13.6010 ug/L	94
8) Trichlorofluoromethane	1.467	101	82215	12.5975 ug/L	98
9) Diethyl ether	1.670	59	1238	0.4892 ug/L	93
10) 1,1-Dichloroethene	1.782	61	82582	13.3752 ug/L	99
11) Carbon Disulfide	1.794	76	199033	17.0078 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.809	101	46826	12.3329 ug/L	99
13) Iodomethane	1.875	142	76960	14.1615 ug/L	99
14) Acrolein	2.014	56	171	0.3813 ug/L #	13
15) Methylene Chloride	2.185	84	67441	16.3235 ug/L	100
16) Acetone	2.237	43	14555	24.2937 ug/L	100
17) trans-1,2-Dichloroethene	2.307	96	65547	16.2809 ug/L	99
18) Methyl acetate	2.335	43	33703	17.4086 ug/L #	91
19) Methyl Tert Butyl Ether	2.411	73	177817	20.4087 ug/L #	60
20) 1,1-Dichloroethane	2.833	63	119227	15.8045 ug/L	99
21) Acrylonitrile	2.891	53	16954	20.5957 ug/L	99
23) cis-1,2-Dichloroethene	3.395	96	80374	17.9040 ug/L	100
24) 2,2-Dichloropropane	3.517	77	86803	14.5229 ug/L	99
25) Cyclohexane	3.612	56	91261	14.2745 ug/L #	68
26) Bromochloromethane	3.624	130	48343	17.7032 ug/L	99
27) Chloroform	3.746	83	125419	16.7365 ug/L	99
28) Carbon Tetrachloride	3.885	117	84468	14.8940 ug/L	100
30) 1,1,1-Trichloroethane	3.980	97	102759	15.3579 ug/L	100
31) 1,1-Dichloropropene	4.154	75	80330	14.6853 ug/L	98
32) 2-Butanone	4.186	43	19917	21.0049 ug/L	89
33) Benzene	4.469	78	277962	16.7600 ug/L	100
35) 1,2-Dichloroethane	4.721	62	84591	18.0120 ug/L	99
36) Methylcyclohexane	5.138	83	90798	13.7555 ug/L	100
37) Trichloroethene	5.167	130	85616	15.2698 ug/L	99
38) Dibromomethane	5.596	93	39558	17.5205 ug/L	100
39) 1,2-Dichloropropane	5.703	63	78140	17.8828 ug/L	100
40) Bromodichloromethane	5.795	83	94149	17.7486 ug/L	100
42) 2-Chloroethyl Vinyl Ether	6.406	63	1236	1.3875 ug/L	92
43) cis-1,3-Dichloropropene	6.409	75	113649	19.5390 ug/L	99
44) 4-Methyl-2-Pentanone	7.003	58	17779	21.2134 ug/L	96
45) trans-1,3-Dichloropropene	7.017	75	88210	18.6881 ug/L	99
48) Toluene	6.621	91	308677	16.9096 ug/L	100
49) Tetrachloroethene	6.954	166	80566	15.1764 ug/L	100
50) 1,1,2-Trichloroethane	7.148	97	57079	18.8993 ug/L	100
51) Dibromochloromethane	7.289	129	74673	17.9194 ug/L	100
52) 1,3-Dichloropropane	7.373	76	96141	19.7933 ug/L	99
53) 1,2-Dibromoethane	7.463	107	57152	18.9150 ug/L	100

Data File : D:\MassHunter\GCMS\1\data\052016\17M021275.D Vial: 21
Acq On : 20 May 2016 22:26 Operator: ADC
Sample : L16050763-16 A MSD 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:01 2016

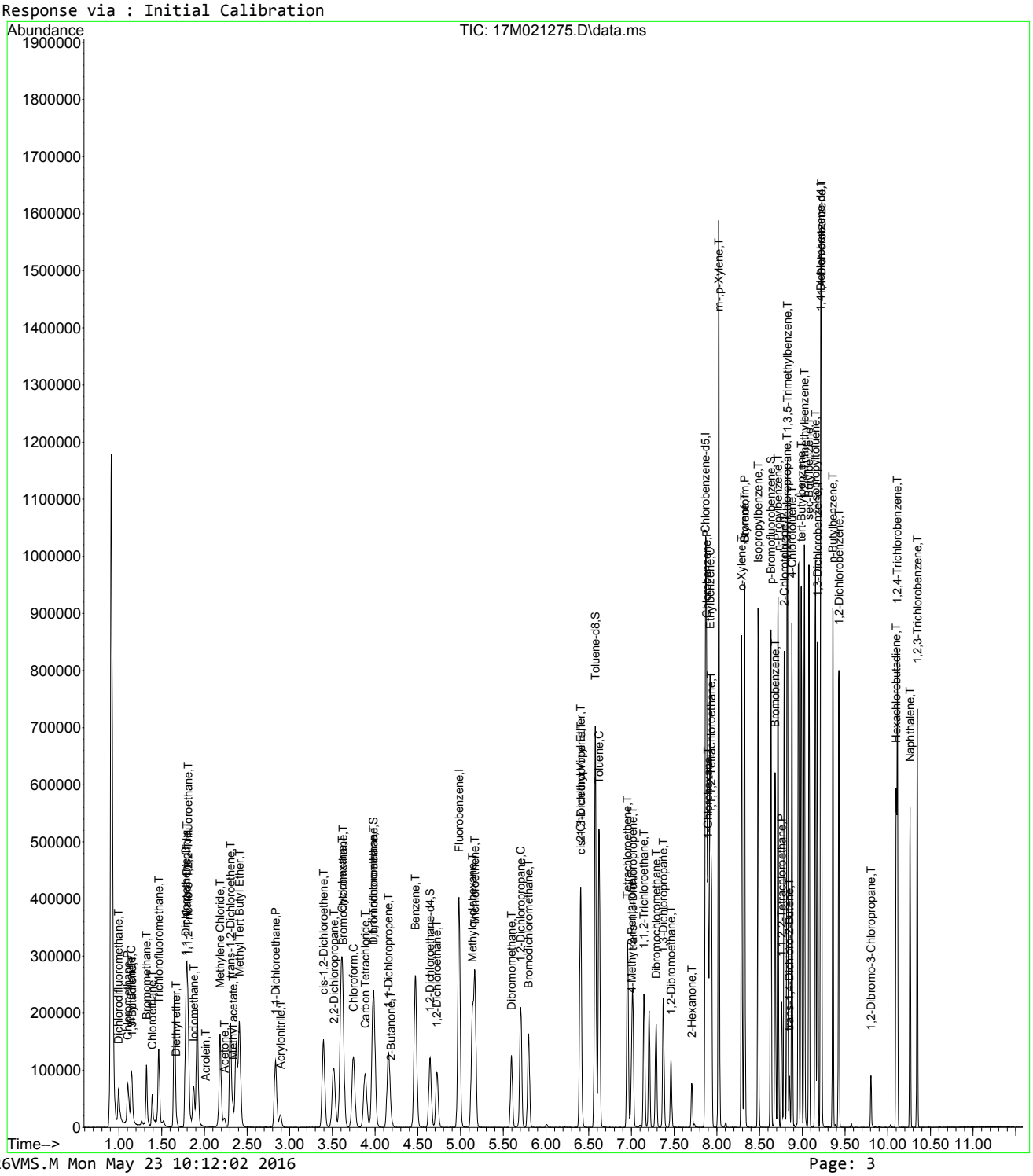
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 2-Hexanone	7.706	43	32094	21.2840	ug/L		97
55) Chlorobenzene	7.880	112	210281	17.5308	ug/L		100
56) 1-Chlorohexane	7.897	69	16075	16.1874	ug/L		82
57) Ethylbenzene	7.921	106	105197	16.6747	ug/L		98
58) 1,1,1,2-Tetrachloroethane	7.935	131	77437	18.4940	ug/L		99
59) m-,p-Xylene	8.022	106	258682	34.6293	ug/L		99
60) o-Xylene	8.291	106	130521	17.8035	ug/L		99
61) Styrene	8.326	104	213551	18.2645	ug/L		100
62) Bromoform	8.326	173	47265	17.7328	ug/L		100
63) Isopropylbenzene	8.482	105	326421	17.1872	ug/L		100
65) 1,3,5-Trimethylbenzene	8.827	105	284223	17.5224	ug/L		99
67) Bromobenzene	8.682	156	95397	17.1994	ug/L		100
68) n-Propylbenzene	8.717	91	378160	17.4824	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.760	83	55902	24.4564	ug/L		100
70) 2-Chlorotoluene	8.789	91	231218	17.3291	ug/L		99
71) 1,2,3-Trichloropropane	8.821	110	17927	19.8262	ug/L		96
72) trans-1,4-Dichloro-2-B...	8.850	53	8181	18.6060	ug/L	#	95
73) 1,2,4-Trimethylbenzene	9.024	105	283180	17.4457	ug/L		100
74) 4-Chlorotoluene	8.879	91	247941	17.9244	ug/L		100
75) tert-Butylbenzene	8.989	134	52295	17.1315	ug/L		99
76) sec-Butylbenzene	9.079	105	335939	16.6598	ug/L		100
77) p-Isopropyltoluene	9.154	119	284826	16.9763	ug/L		100
78) 1,3-Dichlorobenzene	9.180	146	179416	17.7899	ug/L		100
79) 1,4-Dichlorobenzene	9.223	146	178908	17.1907	ug/L		100
80) n-Butylbenzene	9.357	91	257352	16.4568	ug/L		100
81) 1,2-Dichlorobenzene	9.429	146	169093	17.8857	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.805	75	10443	21.5207	ug/L		100
83) Hexachlorobutadiene	10.101	225	57324	15.6033	ug/L		100
84) 1,2,4-Trichlorobenzene	10.112	180	128444	18.3431	ug/L		99
85) Naphthalene	10.263	128	203738	19.0657	ug/L		100
86) 1,2,3-Trichlorobenzene	10.347	180	116205	18.9255	ug/L		100

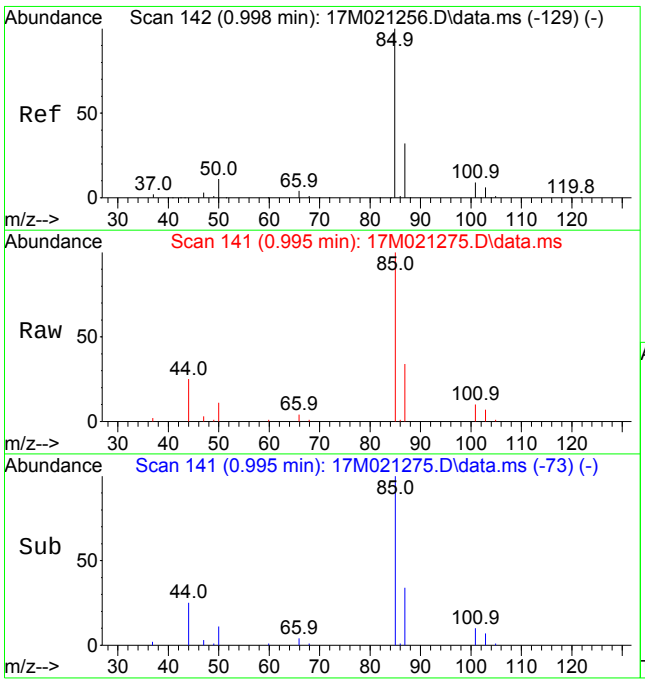
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021275.D Vial: 21
Acq On : 20 May 2016 22:26 Operator: ADC
Sample : L16050763-16 A MSD 826-LOW Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:12:01 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



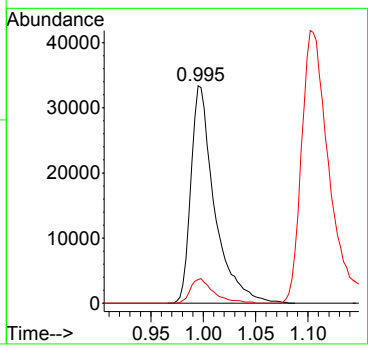
826VMS.M Mon May 23 10:12:02 2016 Page: 3

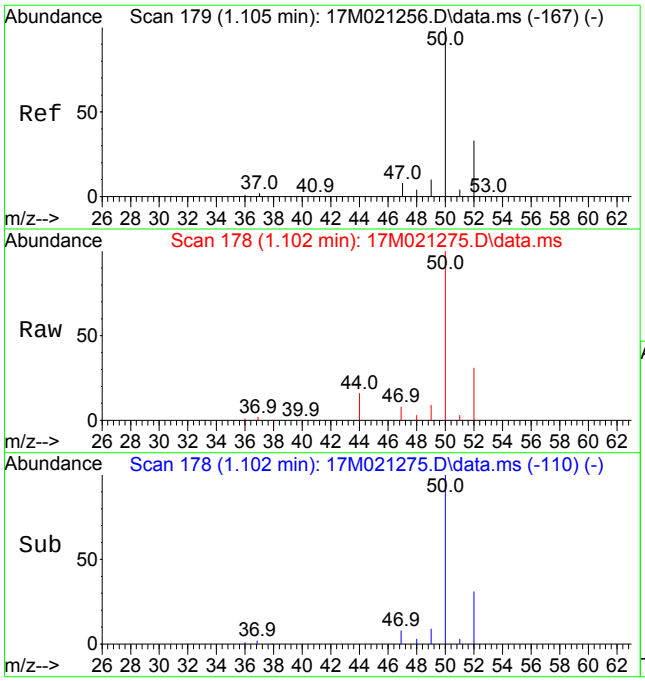


#2
Dichlorodifluoromethane
Concen: 9.5107 ug/L
RT: 0.995 min Scan# 141
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 85 Resp: 52405

Ion	Ratio	Lower	Upper
85	100		
50	11.2	6.5	15.3

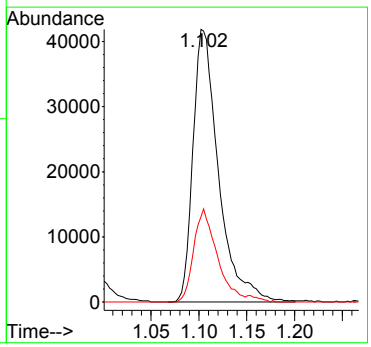


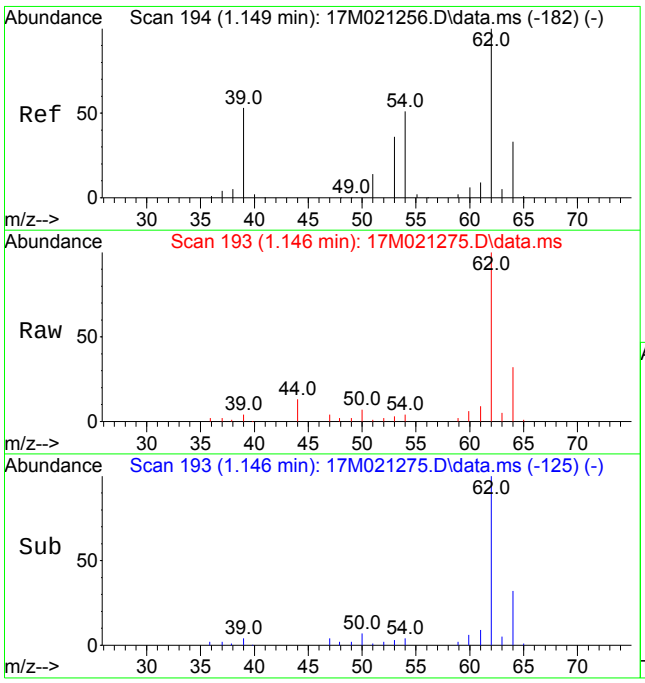


#3
Chloromethane
Concen: 15.8091 ug/L
RT: 1.102 min Scan# 178
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 50 Resp: 77926

Ion	Ratio	Lower	Upper
50	100		
52	32.3	19.4	45.4

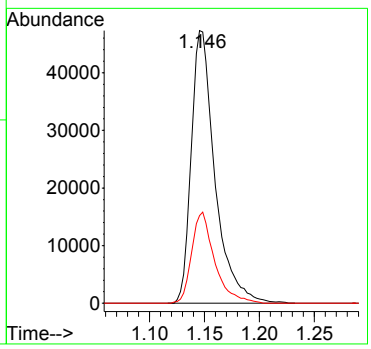


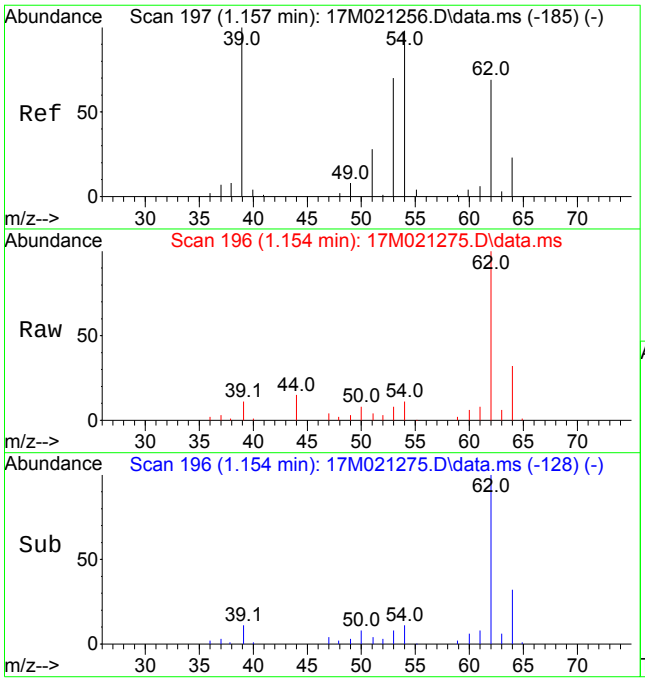


#4
Vinyl Chloride
Concen: 14.3674 ug/L
RT: 1.146 min Scan# 193
Delta R.T. -0.004 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 62 Resp: 70879

Ion	Ratio	Lower	Upper
62	100		
64	32.4	19.2	44.8

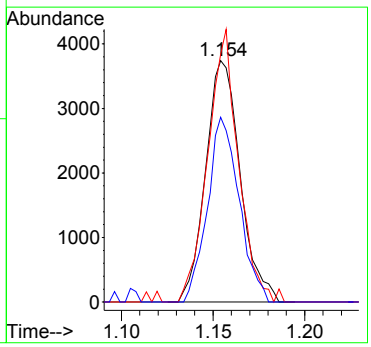


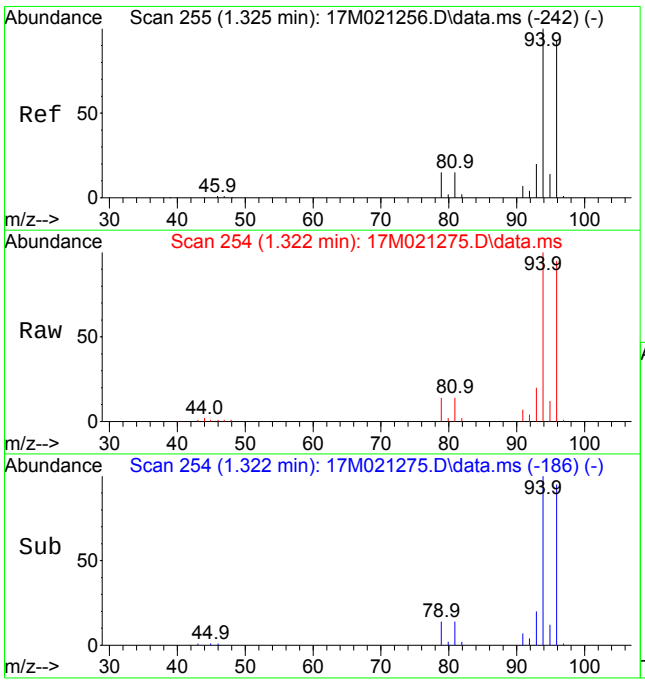


#5
1,3-Butadiene
Concen: 1.2364 ug/L
RT: 1.154 min Scan# 196
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 54 Resp: 4917

Ion	Ratio	Lower	Upper
54	100		
39	100.2	61.6	143.8
53	70.0	42.7	99.7

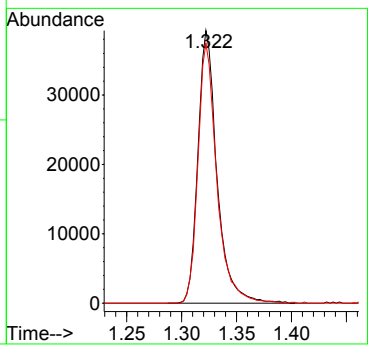


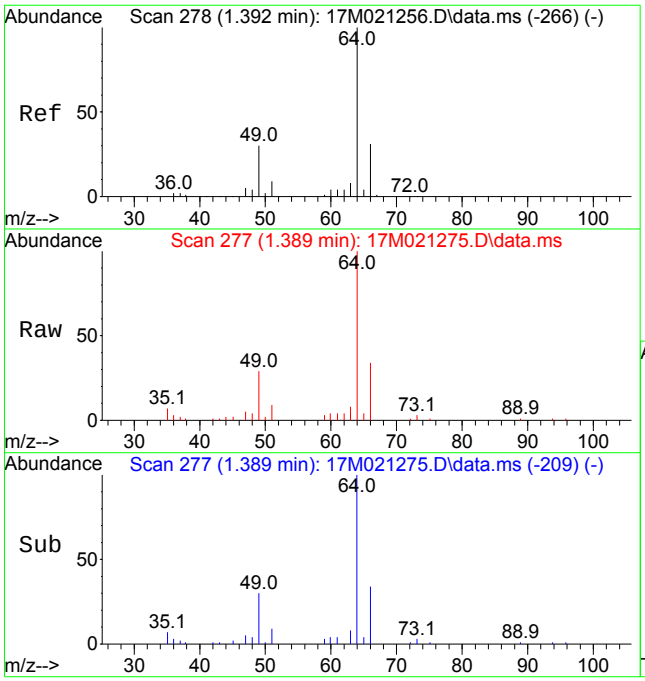


#6
Bromomethane
Concen: 15.2296 ug/L
RT: 1.322 min Scan# 254
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 94 Resp: 47553

Ion	Ratio	Lower	Upper
94	100		
96	94.3	56.6	132.0

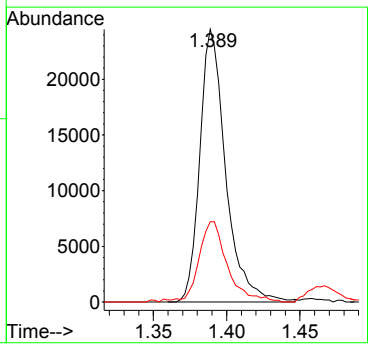


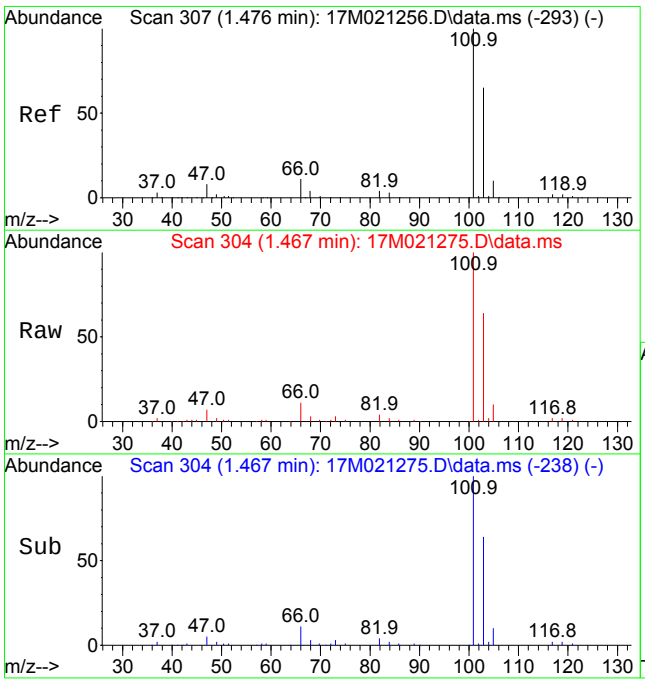


#7
Chloroethane
Concen: 13.6010 ug/L
RT: 1.389 min Scan# 277
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 64 Resp: 30085

Ion	Ratio	Lower	Upper
64	100		
49	32.7	17.6	41.0

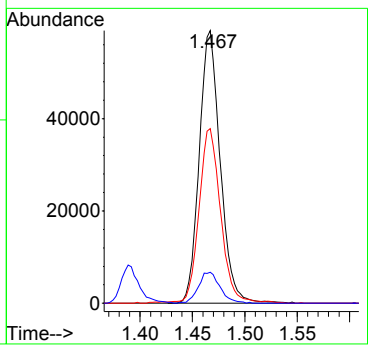


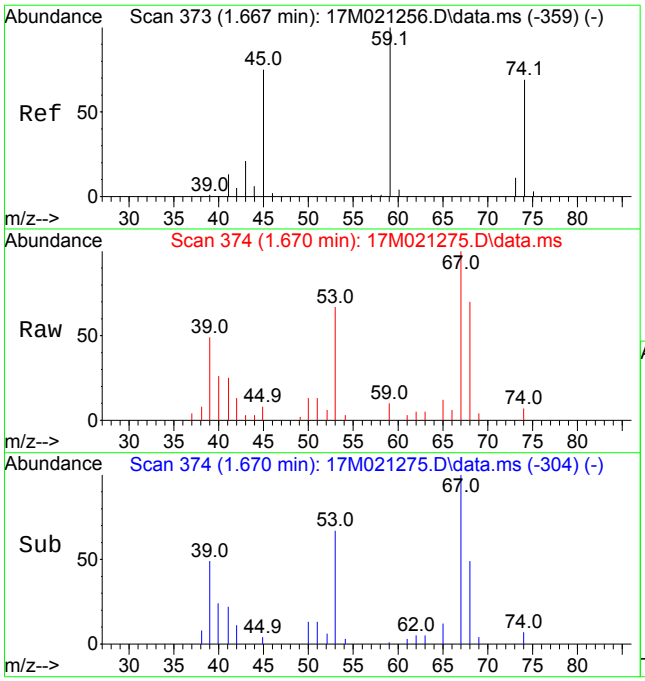


#8
Trichlorofluoromethane
Concen: 12.5975 ug/L
RT: 1.467 min Scan# 304
Delta R.T. -0.009 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:101 Resp: 82215

Ion	Ratio	Lower	Upper
101	100		
103	66.5	39.0	91.0
66	11.7	7.0	16.2

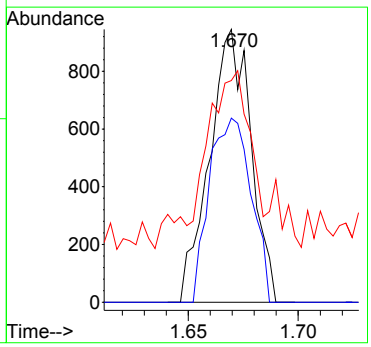


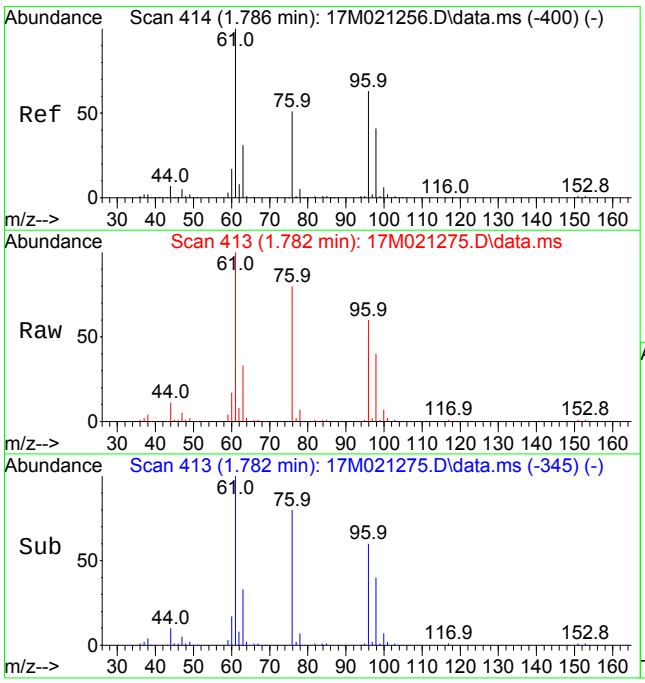


#9
Diethyl ether
Concen: 0.4892 ug/L
RT: 1.670 min Scan# 374
Delta R.T. 0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 59 Resp: 1238

Ion	Ratio	Lower	Upper
59	100		
45	85.5	45.8	107.0
74	68.1	42.4	98.8

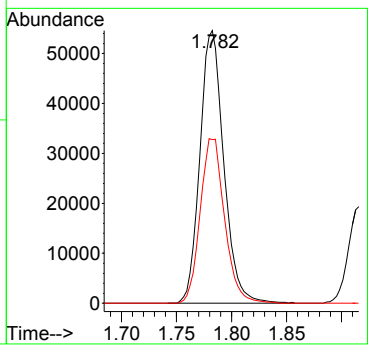


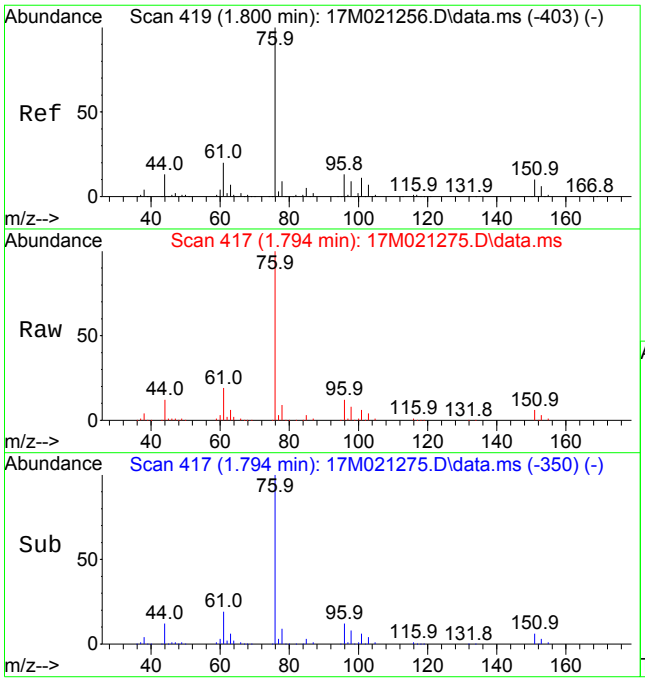


#10
1,1-Dichloroethene
Concen: 13.3752 ug/L
RT: 1.782 min Scan# 413
Delta R.T. -0.004 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 61 Resp: 82582

Ion	Ratio	Lower	Upper
61	100		
96	61.7	50.2	75.4

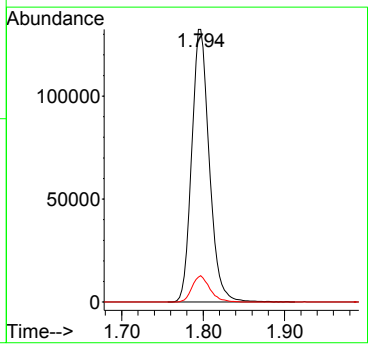


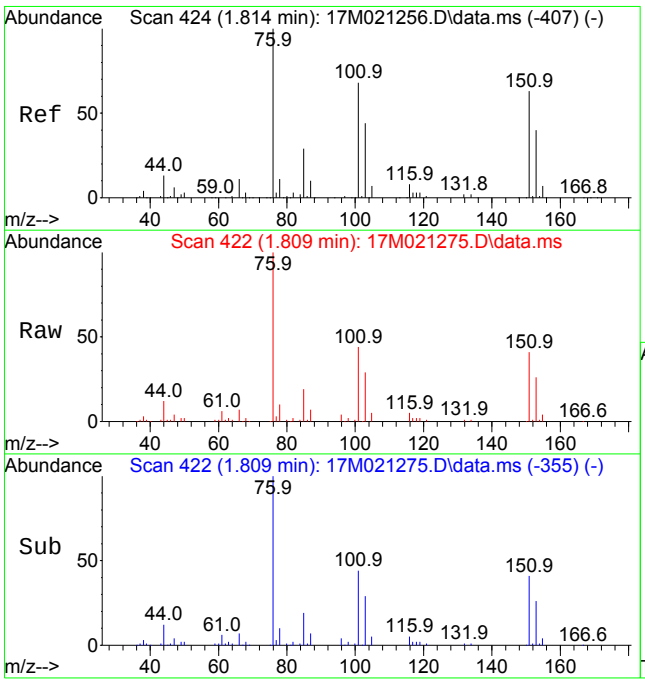


#11
Carbon Disulfide
Concen: 17.0078 ug/L
RT: 1.794 min Scan# 417
Delta R.T. -0.006 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 76 Resp: 199033

Ion	Ratio	Lower	Upper
76	100		
78	9.7	7.9	11.9

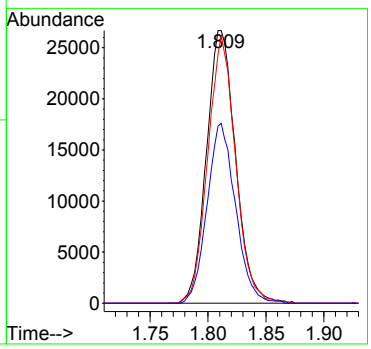


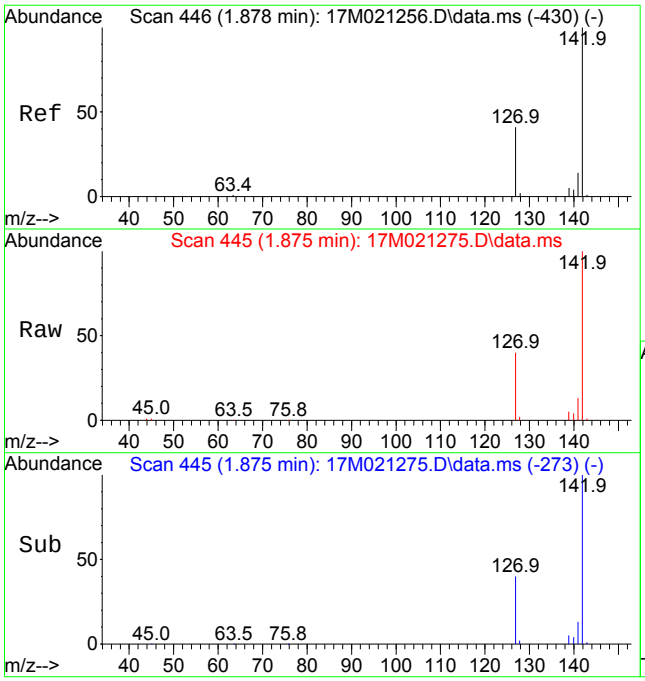


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 12.3329 ug/L
RT: 1.809 min Scan# 422
Delta R.T. -0.005 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:101 Resp: 46826

Ion	Ratio	Lower	Upper
101	100		
151	93.4	73.5	110.3
103	64.4	51.8	77.6

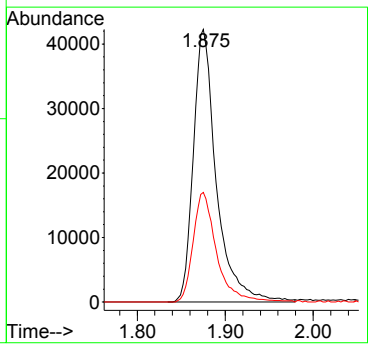


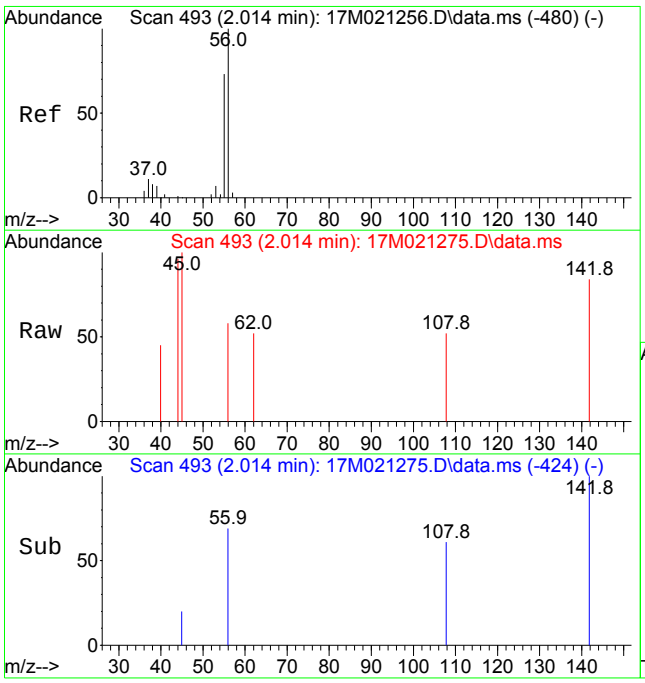


#13
Iodomethane
Concen: 14.1615 ug/L
RT: 1.875 min Scan# 445
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:142 Resp: 76960

Ion	Ratio	Lower	Upper
142	100		
127	41.1	33.3	49.9

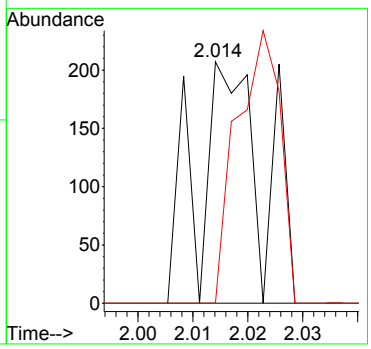


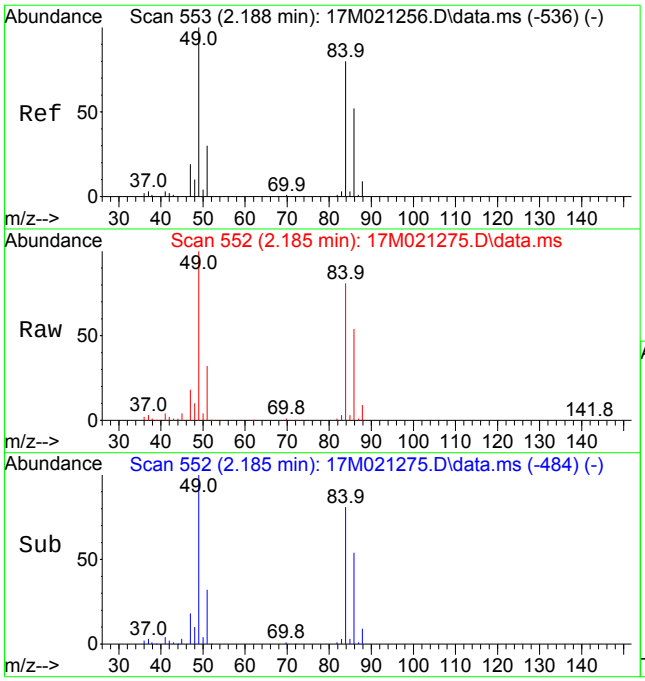


#14
Acrolein
Concen: 0.3813 ug/L
RT: 2.014 min Scan# 493
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 56 Resp: 171

Ion	Ratio	Lower	Upper
56	100		
55	0.0	44.3	103.5#

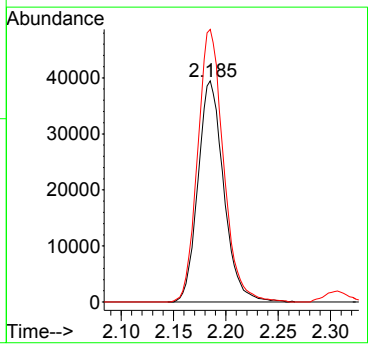


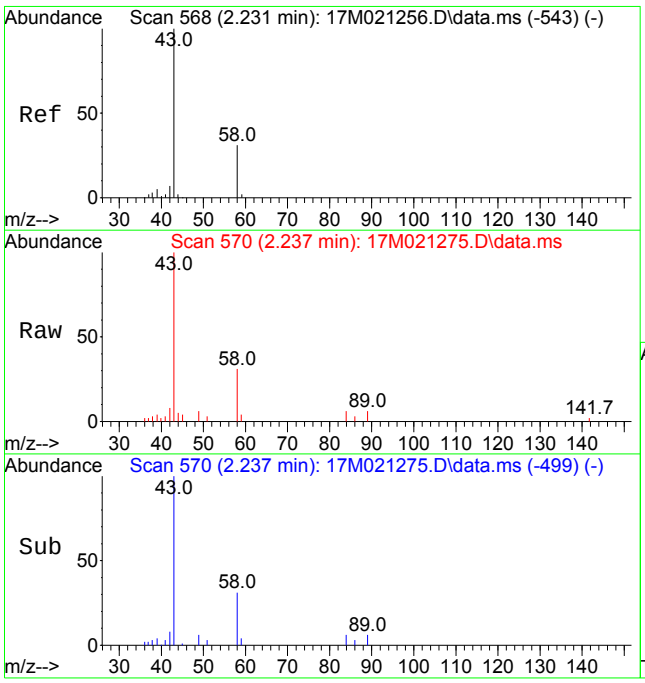


#15
Methylene Chloride
Concen: 16.3235 ug/L
RT: 2.185 min Scan# 552
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 84 Resp: 67441

Ion	Ratio	Lower	Upper
84	100		
49	124.0	99.0	148.6

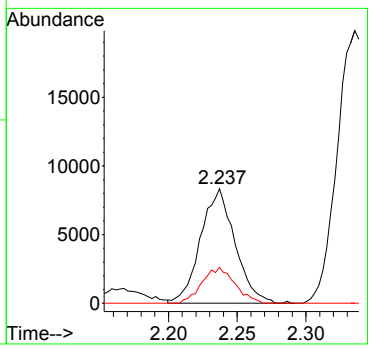


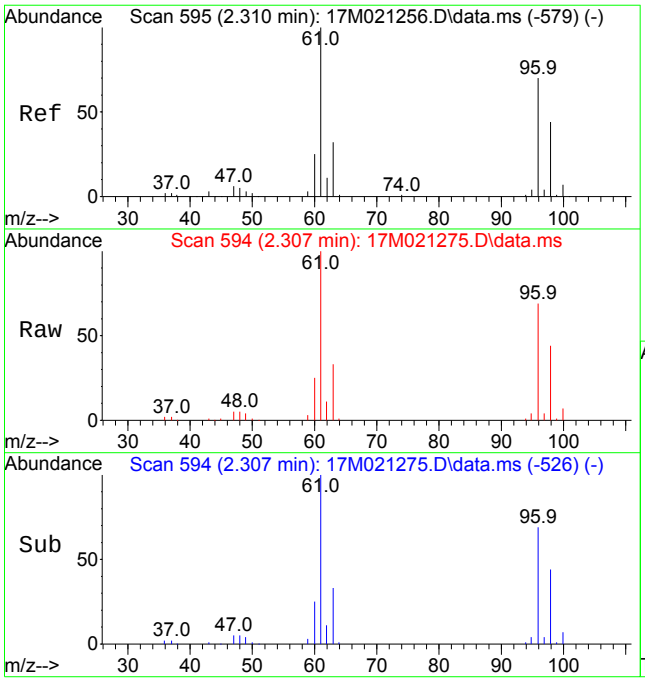


#16
Acetone
Concen: 24.2937 ug/L
RT: 2.237 min Scan# 570
Delta R.T. 0.006 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 43 Resp: 14555

Ion	Ratio	Lower	Upper
43	100		
58	29.7	17.6	41.2

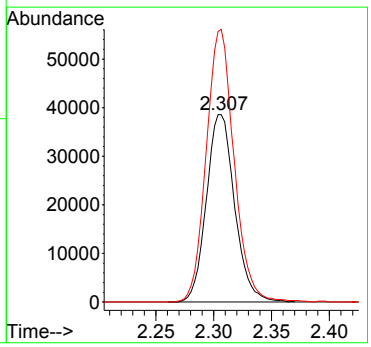


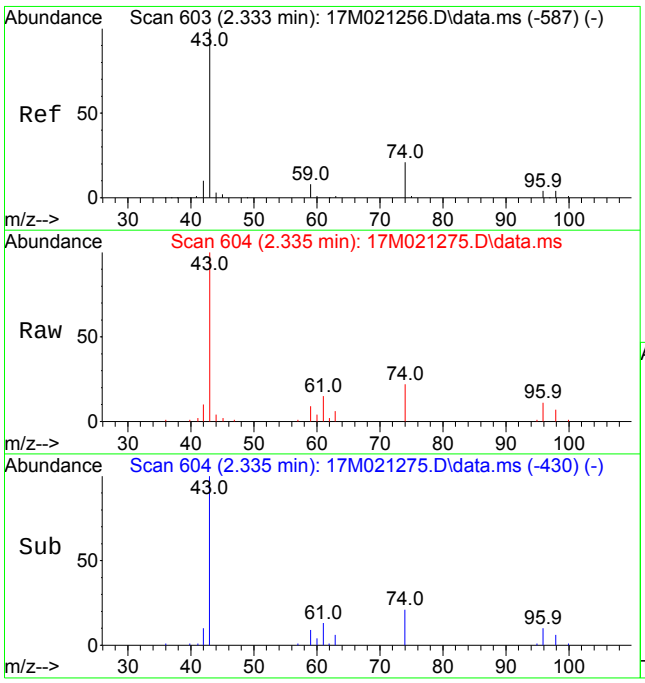


#17
trans-1,2-Dichloroethene
Concen: 16.2809 ug/L
RT: 2.307 min Scan# 594
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 96 Resp: 65547

Ion	Ratio	Lower	Upper
96	100		
61	143.6	115.4	173.0

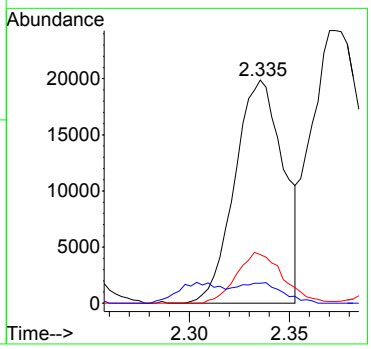


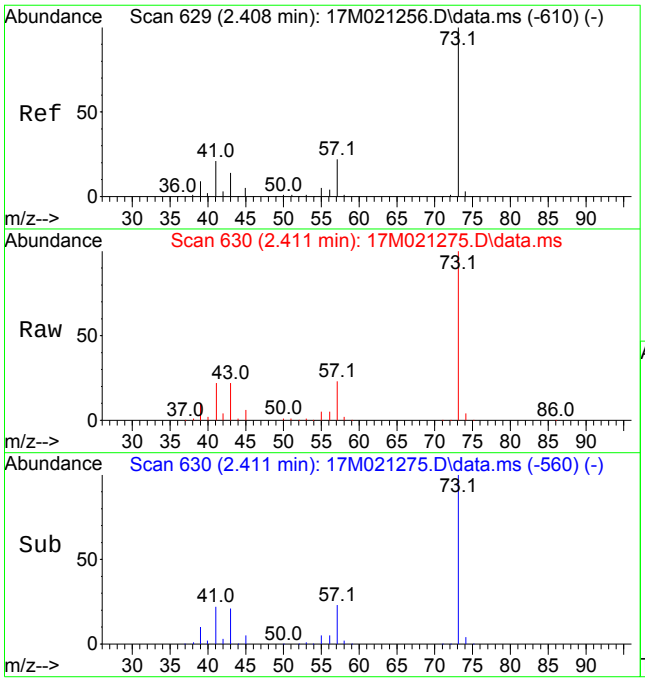


#18
Methyl acetate
Concen: 17.4086 ug/L
RT: 2.335 min Scan# 604
Delta R.T. 0.002 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 43 Resp: 33703

Ion	Ratio	Lower	Upper
43	100		
74	21.7	21.3	21.3#
59	8.8	13.6	20.4#

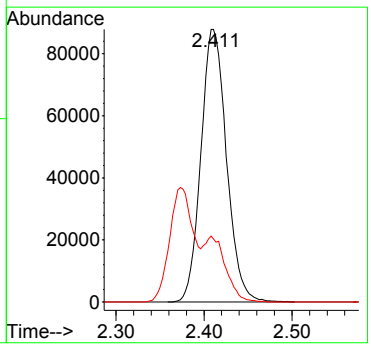


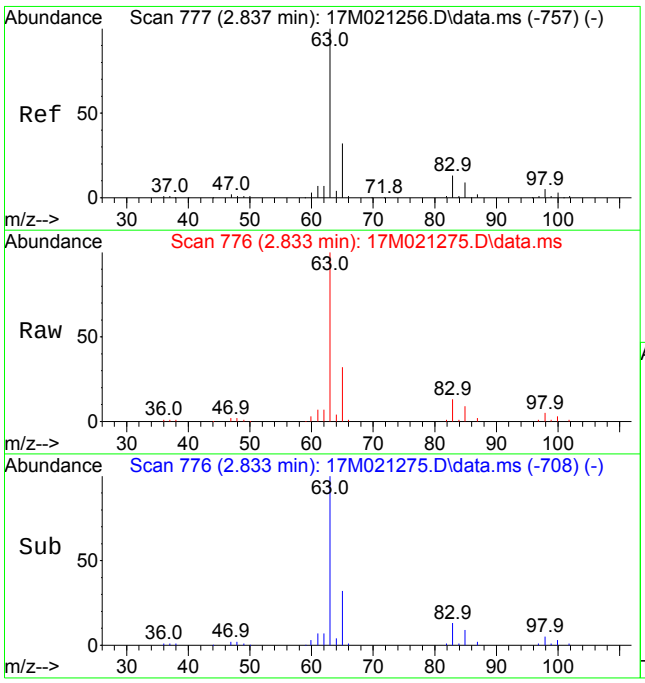


#19
Methyl Tert Butyl Ether
Concen: 20.4087 ug/L
RT: 2.411 min Scan# 630
Delta R.T. 0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 73 Resp: 177817

Ion	Ratio	Lower	Upper
73	100		
57	41.4	17.8	26.6#

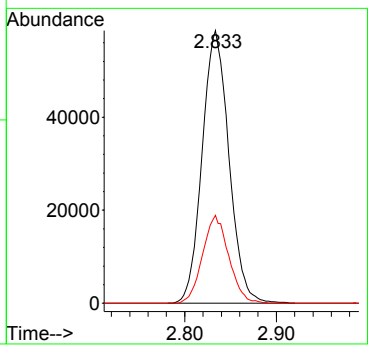


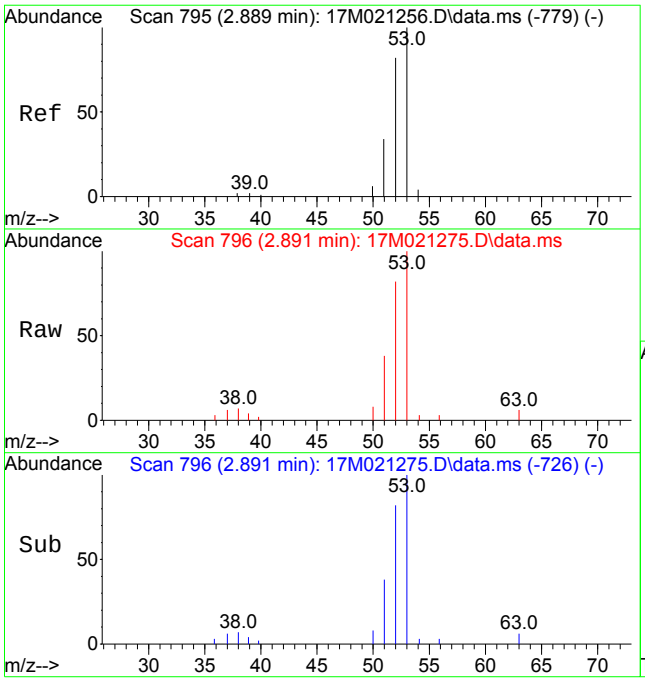


#20
1,1-Dichloroethane
Concen: 15.8045 ug/L
RT: 2.833 min Scan# 776
Delta R.T. -0.004 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 63 Resp: 119227

Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.4	38.2

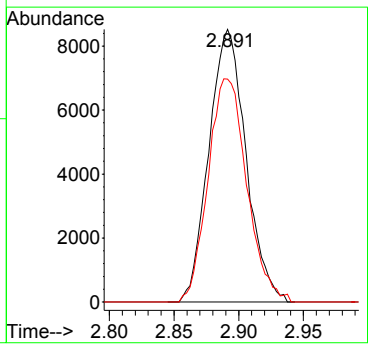


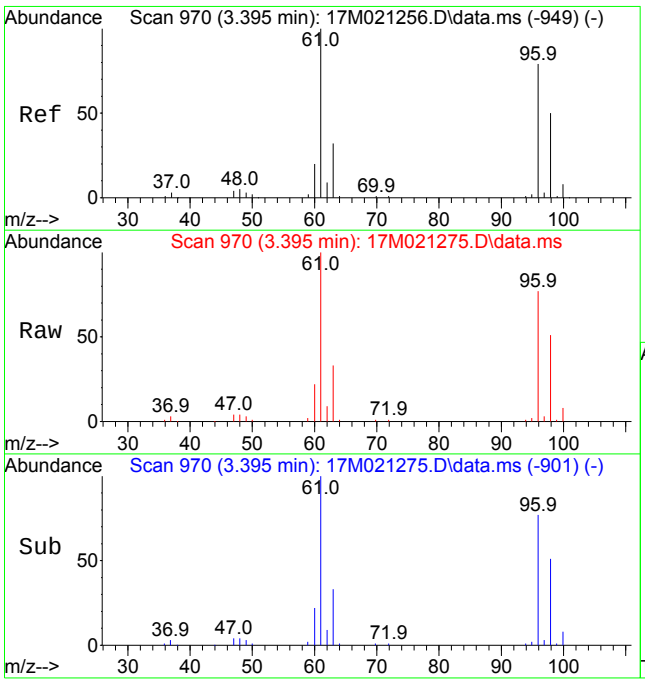


#21
Acrylonitrile
Concen: 20.5957 ug/L
RT: 2.891 min Scan# 796
Delta R.T. 0.002 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 53 Resp: 16954

Ion	Ratio	Lower	Upper
53	100		
52	85.5	50.8	118.4

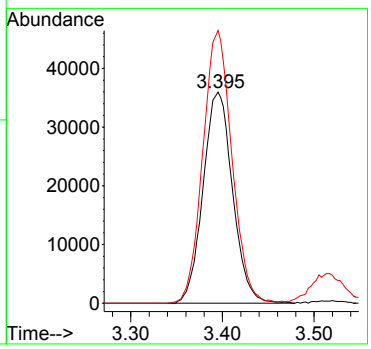


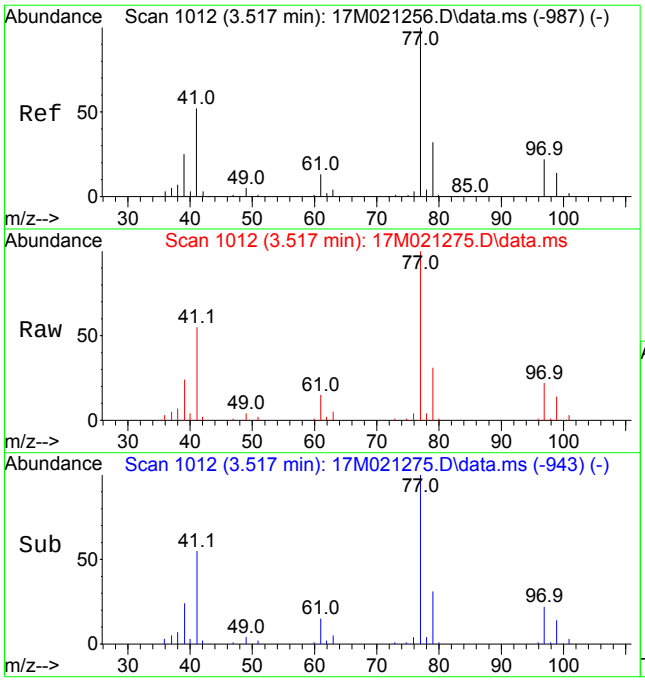


#23
cis-1,2-Dichloroethene
Concen: 17.9040 ug/L
RT: 3.395 min Scan# 970
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 96 Resp: 80374

Ion	Ratio	Lower	Upper
96	100		
61	127.8	102.6	154.0

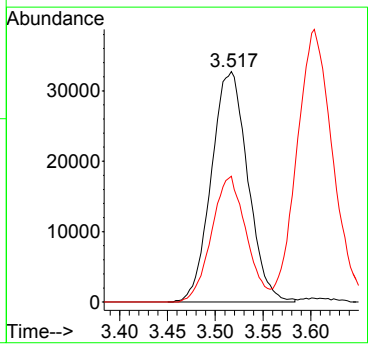


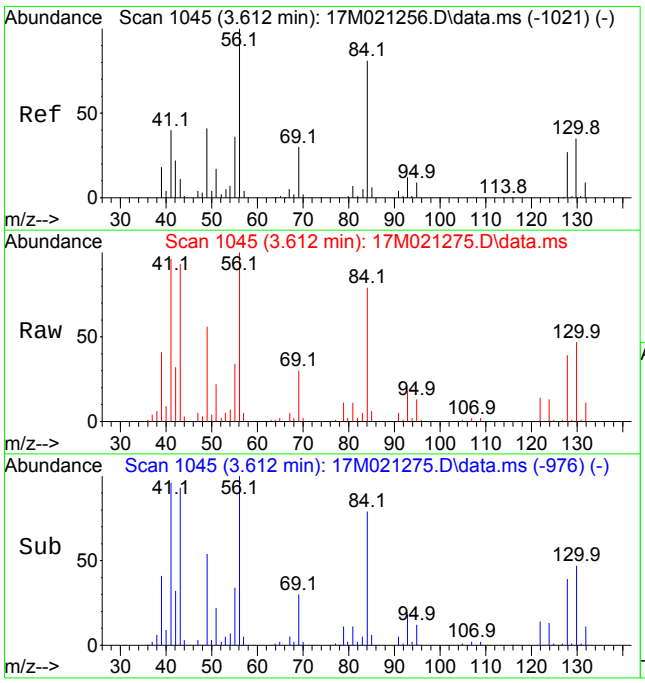


#24
2,2-Dichloropropane
Concen: 14.5229 ug/L
RT: 3.517 min Scan# 1012
Delta R.T. -0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 77 Resp: 86803

Ion	Ratio	Lower	Upper
77	100		
41	51.5	42.0	63.0

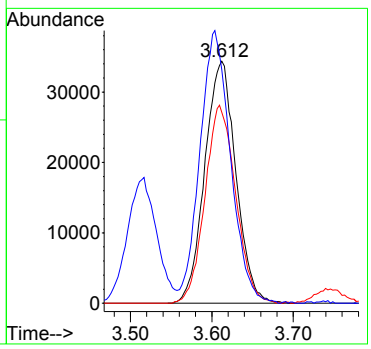


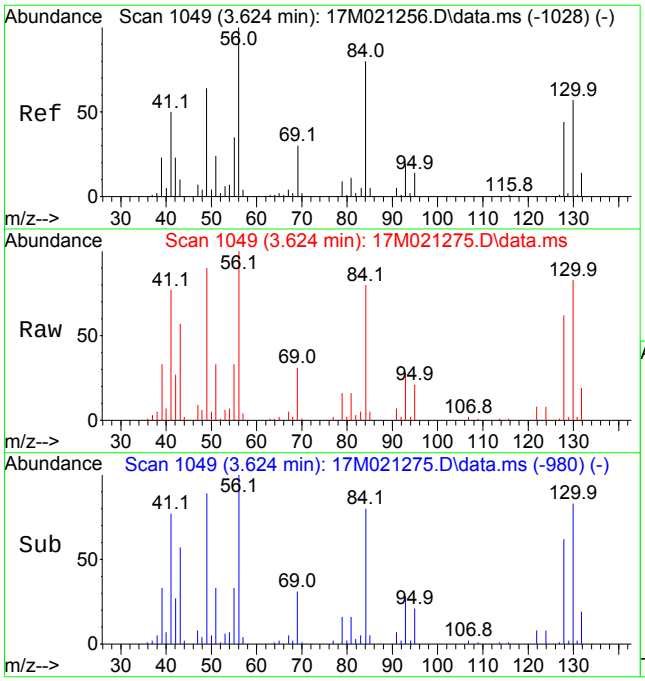


#25
Cyclohexane
Concen: 14.2745 ug/L
RT: 3.612 min Scan# 1045
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 56 Resp: 91261

Ion	Ratio	Lower	Upper
56	100		
84	80.9	64.1	96.1
41	110.9	44.2	66.4#

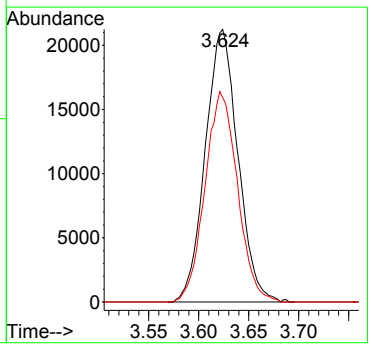


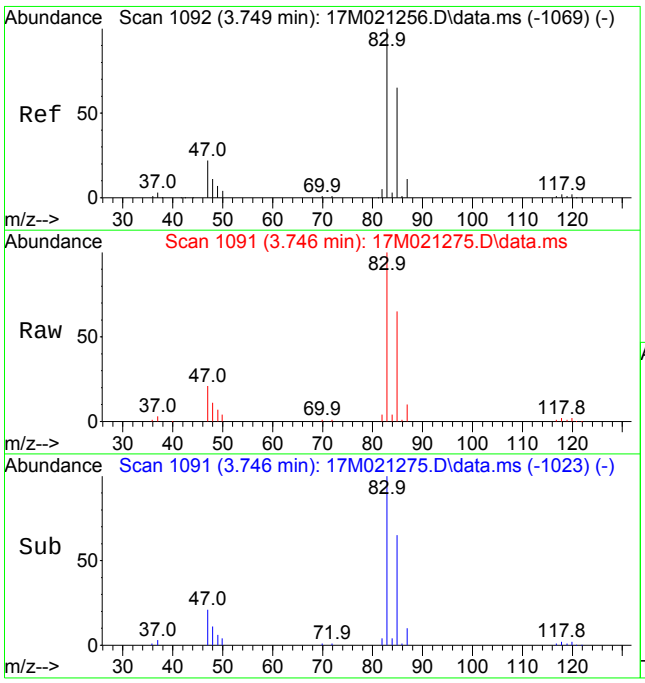


#26
Bromochloromethane
Concen: 17.7032 ug/L
RT: 3.624 min Scan# 1049
Delta R.T. -0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:130 Resp: 48343

Ion	Ratio	Lower	Upper
130	100		
128	76.8	62.1	93.1

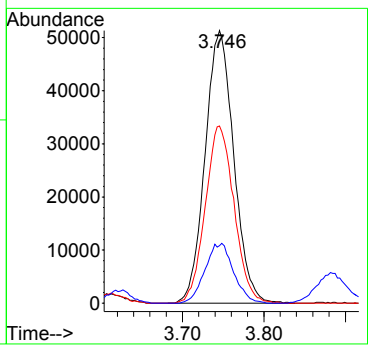


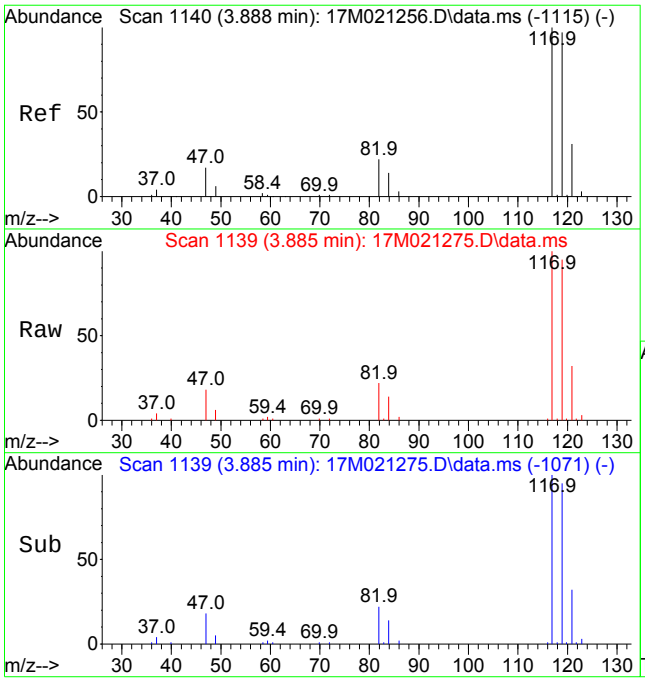


#27
Chloroform
Concen: 16.7365 ug/L
RT: 3.746 min Scan# 1091
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 83 Resp: 125419

Ion	Ratio	Lower	Upper
83	100		
85	65.5	39.0	91.0
47	21.9	13.3	30.9

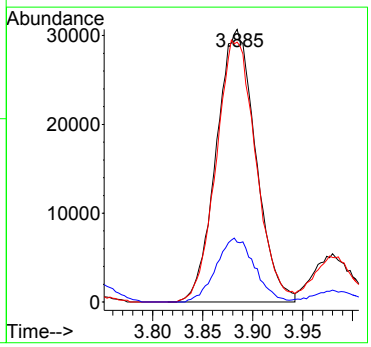


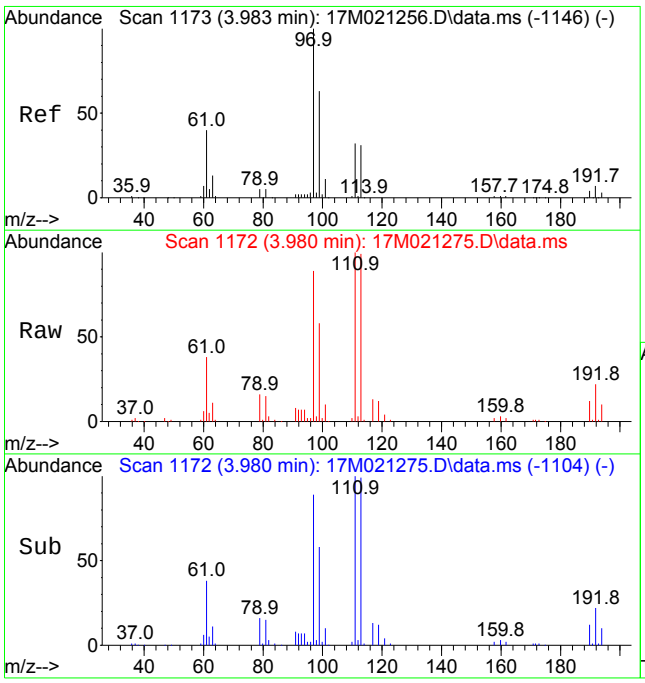


#28
Carbon Tetrachloride
Concen: 14.8940 ug/L
RT: 3.885 min Scan# 1139
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:117 Resp: 84468

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.3	115.9
82	22.9	18.1	27.1

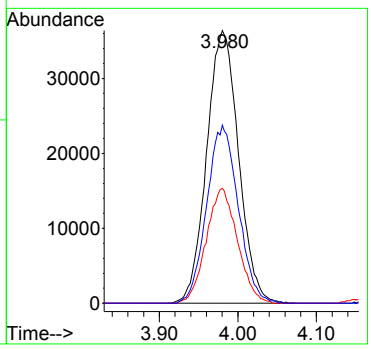


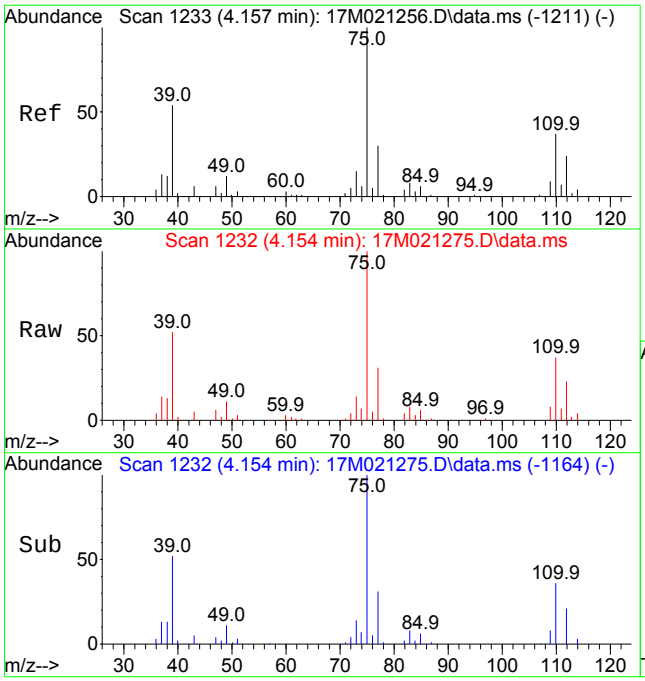


#30
1,1,1-Trichloroethane
Concen: 15.3579 ug/L
RT: 3.980 min Scan# 1172
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 97 Resp: 102759

Ion	Ratio	Lower	Upper
97	100		
61	41.2	24.6	57.4
99	64.6	51.7	77.5

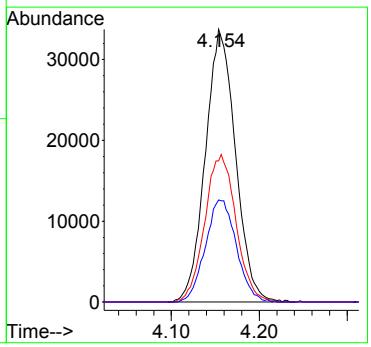


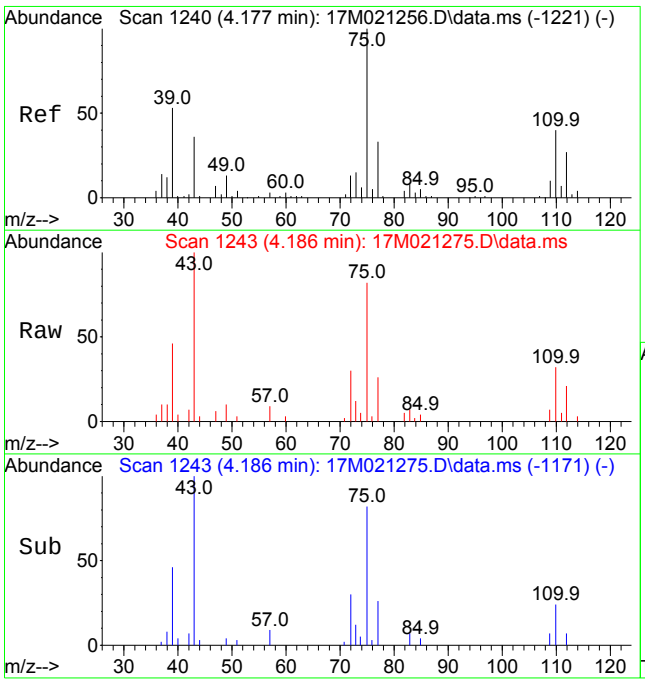


#31
1,1-Dichloropropene
Concen: 14.6853 ug/L
RT: 4.154 min Scan# 1232
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 75 Resp: 80330

Ion	Ratio	Lower	Upper
75	100		
39	56.1	32.8	76.6
110	38.6	22.8	53.2

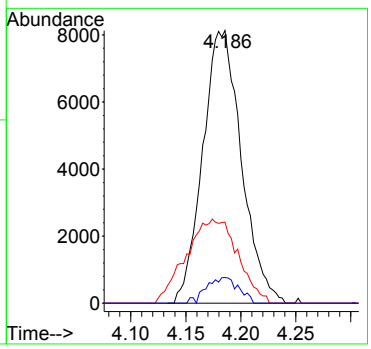


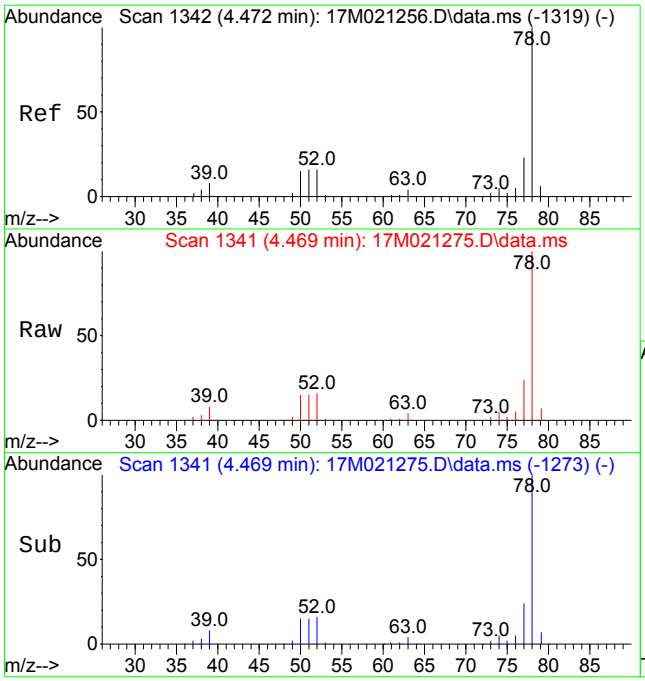


#32
2-Butanone
Concen: 21.0049 ug/L
RT: 4.186 min Scan# 1243
Delta R.T. 0.009 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 43 Resp: 19917

Ion	Ratio	Lower	Upper
43	100		
72	41.1	40.0	60.0
57	7.9	6.4	9.6

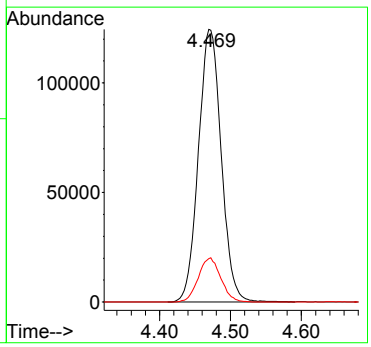


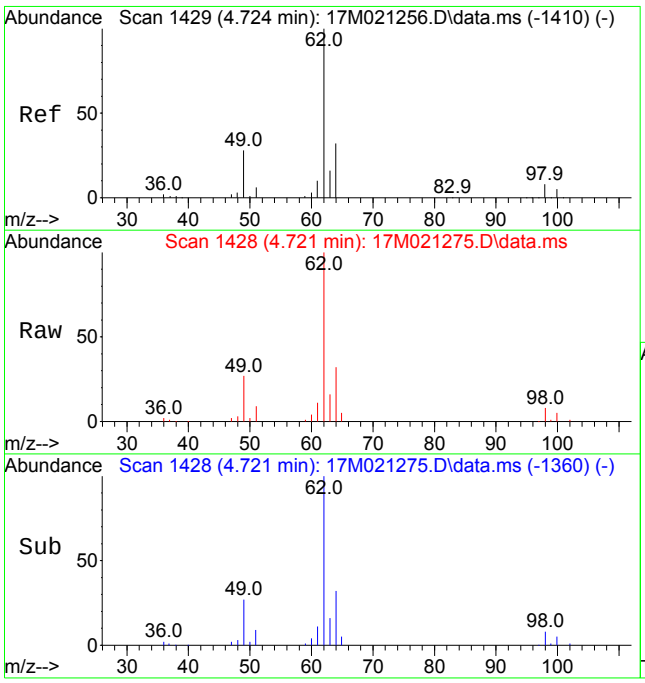


#33
Benzene
Concen: 16.7600 ug/L
RT: 4.469 min Scan# 1341
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 78 Resp: 277962

Ion	Ratio	Lower	Upper
78	100		
52	16.0	13.0	19.4

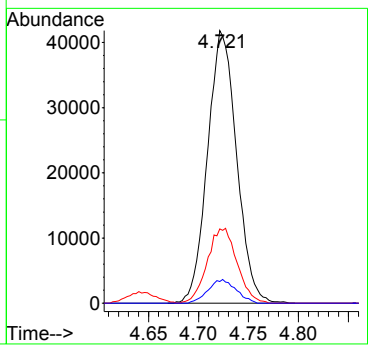


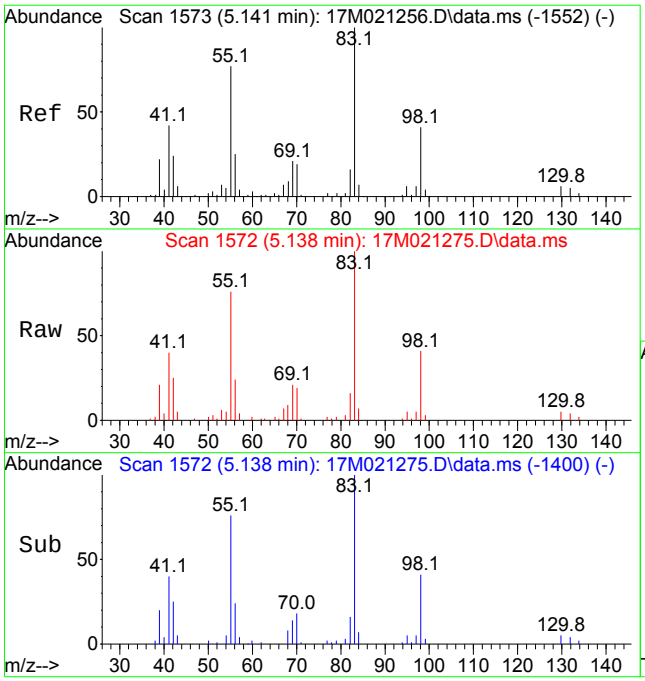


#35
1,2-Dichloroethane
Concen: 18.0120 ug/L
RT: 4.721 min Scan# 1428
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 62 Resp: 84591

Ion	Ratio	Lower	Upper
62	100		
49	28.1	16.7	38.9
98	8.4	5.0	11.6

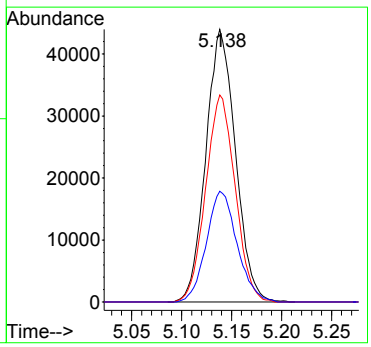


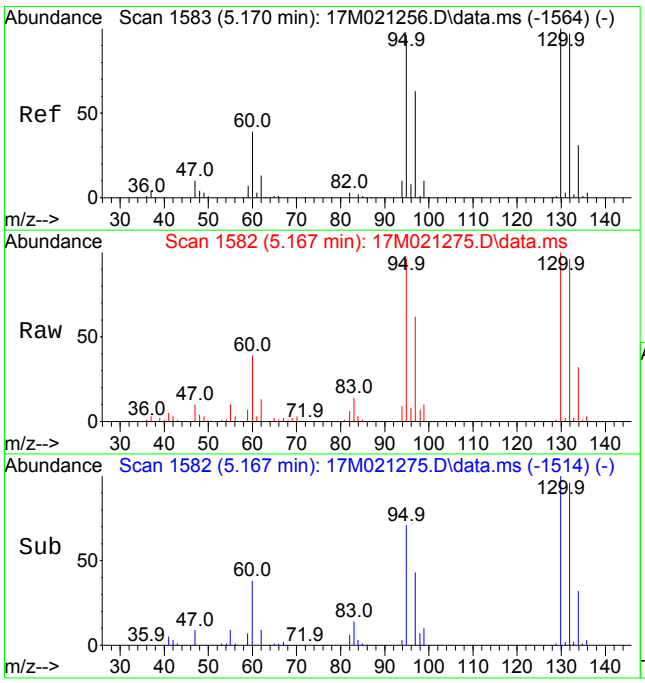


#36
Methylcyclohexane
Concen: 13.7555 ug/L
RT: 5.138 min Scan# 1572
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 83 Resp: 90798

Ion	Ratio	Lower	Upper
83	100		
55	75.4	60.5	90.7
98	42.2	33.4	50.2

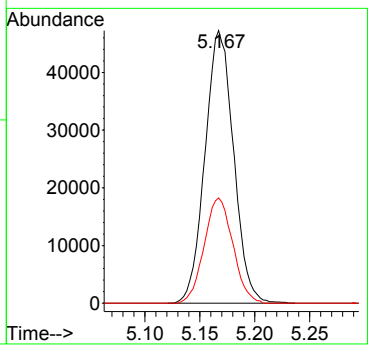


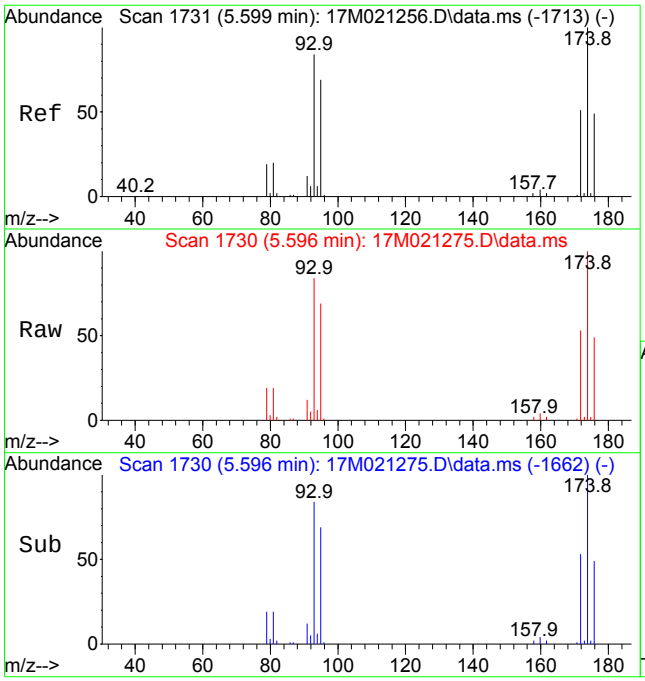


#37
Trichloroethene
Concen: 15.2698 ug/L
RT: 5.167 min Scan# 1582
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:130 Resp: 85616

Ion	Ratio	Lower	Upper
130	100		
60	38.7	23.6	55.2

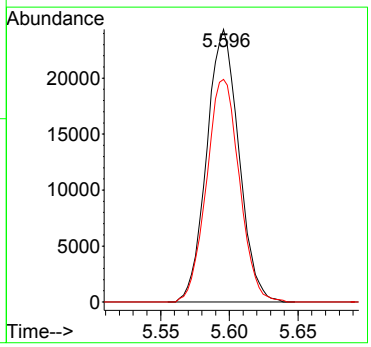


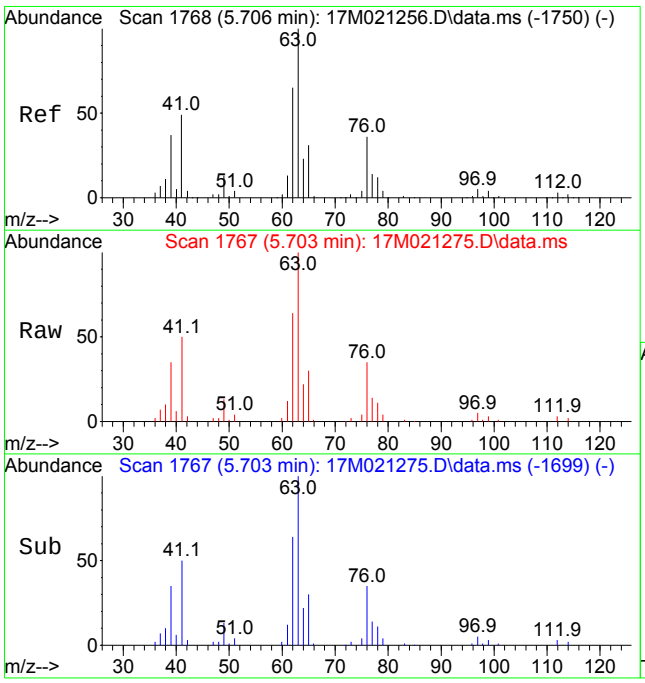


#38
Dibromomethane
Concen: 17.5205 ug/L
RT: 5.596 min Scan# 1730
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 93 Resp: 39558

Ion	Ratio	Lower	Upper
93	100		
95	83.6	67.0	100.4

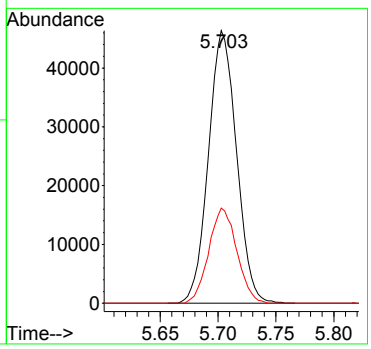


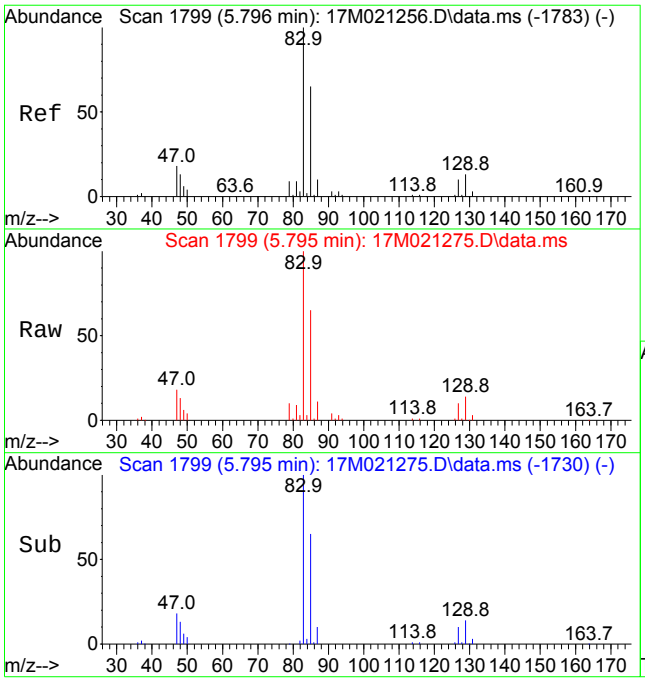


#39
1,2-Dichloropropane
Concen: 17.8828 ug/L
RT: 5.703 min Scan# 1767
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 63 Resp: 78140

Ion	Ratio	Lower	Upper
63	100		
76	34.8	20.8	48.6

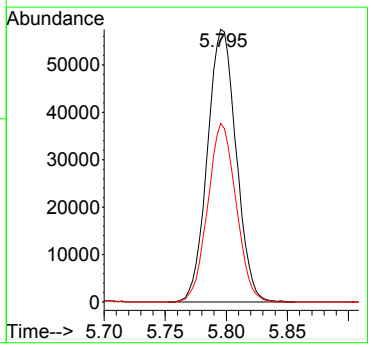


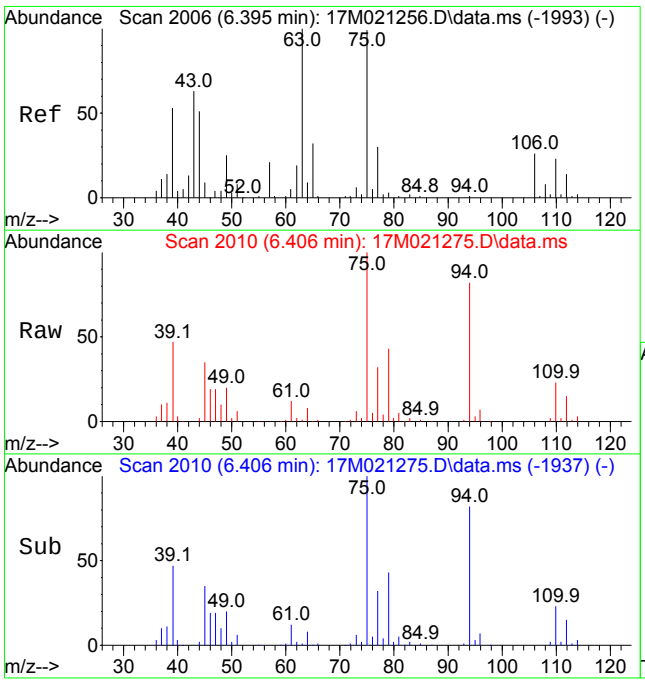


#40
Bromodichloromethane
Concen: 17.7486 ug/L
RT: 5.795 min Scan# 1799
Delta R.T. -0.001 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 83 Resp: 94149

Ion	Ratio	Lower	Upper
83	100		
85	64.5	51.7	77.5

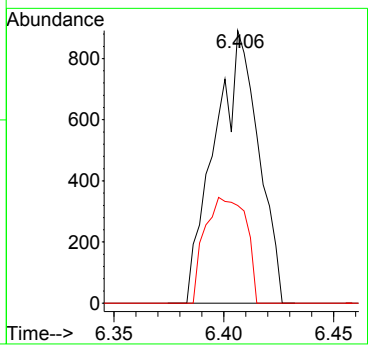


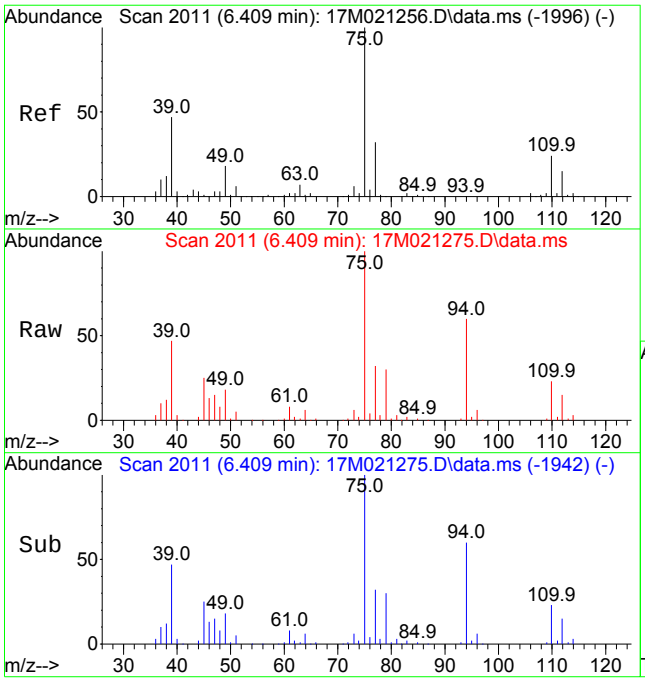


#42
2-Chloroethyl Vinyl Ether
Concen: 1.3875 ug/L
RT: 6.406 min Scan# 2010
Delta R.T. 0.011 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 63 Resp: 1236

Ion	Ratio	Lower	Upper
63	100		
65	36.2	19.1	44.7

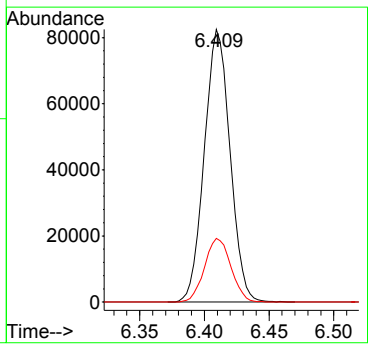


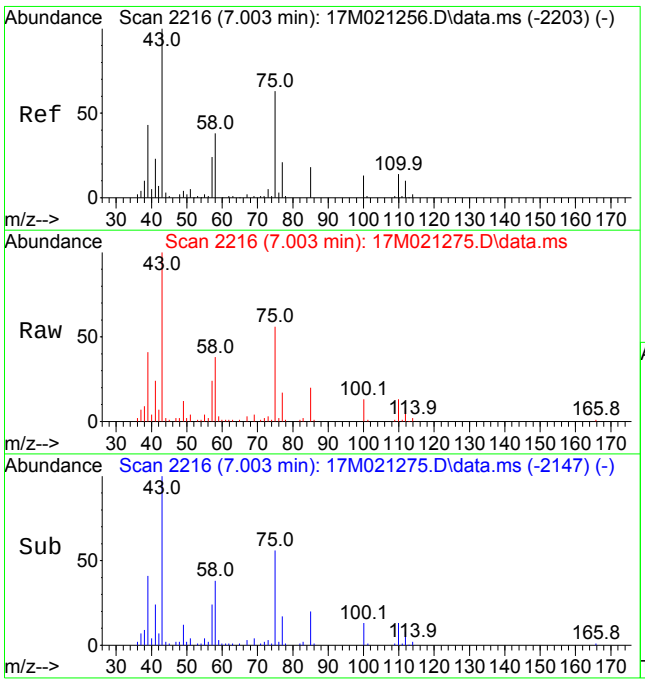


#43
cis-1,3-Dichloropropene
Concen: 19.5390 ug/L
RT: 6.409 min Scan# 2011
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 75 Resp: 113649

Ion	Ratio	Lower	Upper
75	100		
110	23.9	19.4	29.0

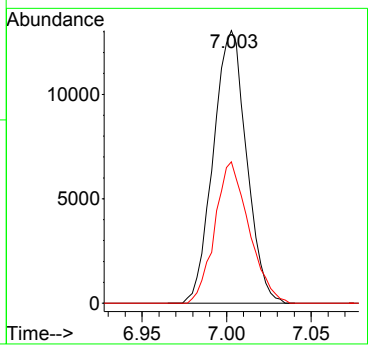


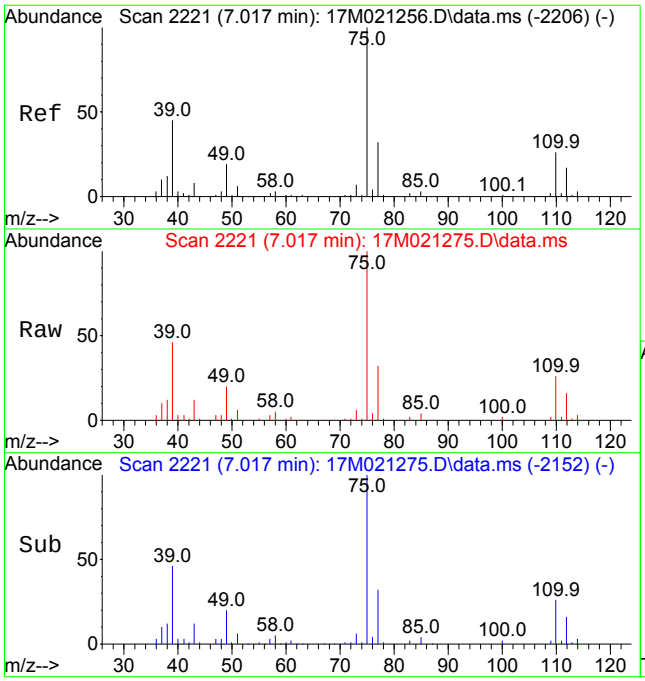


#44
4-Methyl-2-Pentanone
Concen: 21.2134 ug/L
RT: 7.003 min Scan# 2216
Delta R.T. -0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 58 Resp: 17779

Ion	Ratio	Lower	Upper
58	100		
85	53.4	33.6	78.4

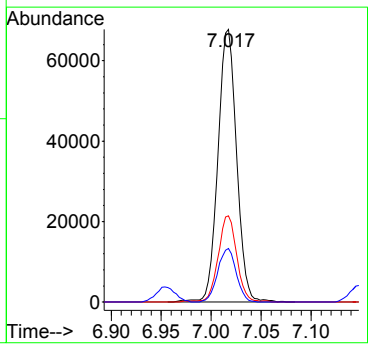


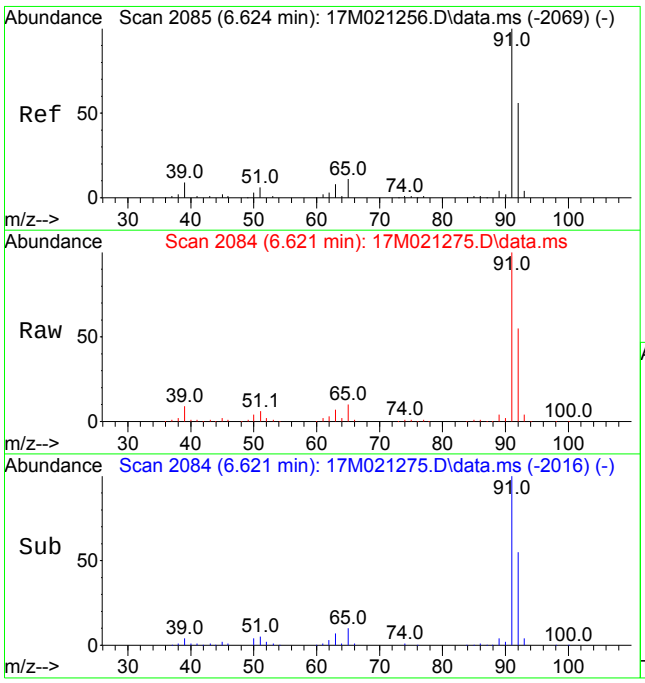


#45
trans-1,3-Dichloropropene
Concen: 18.6881 ug/L
RT: 7.017 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 75 Resp: 88210

Ion	Ratio	Lower	Upper
75	100		
77	31.7	19.4	45.2
49	19.5	11.8	27.4

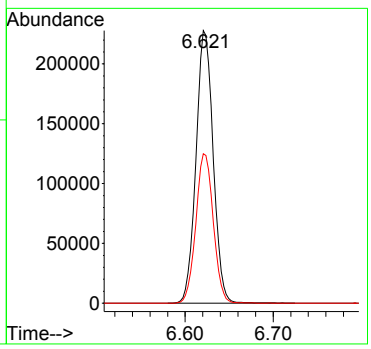


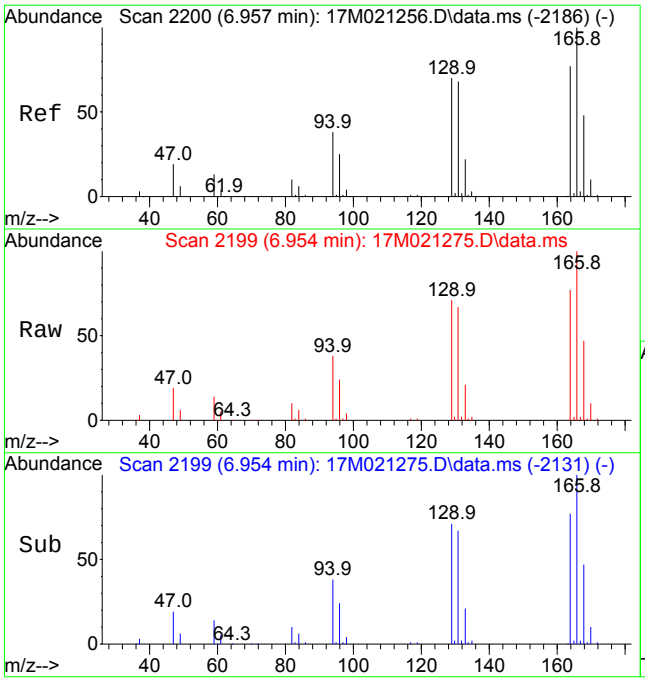


#48
Toluene
Concen: 16.9096 ug/L
RT: 6.621 min Scan# 2084
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 91 Resp: 308677

Ion	Ratio	Lower	Upper
91	100		
92	55.7	33.4	78.0

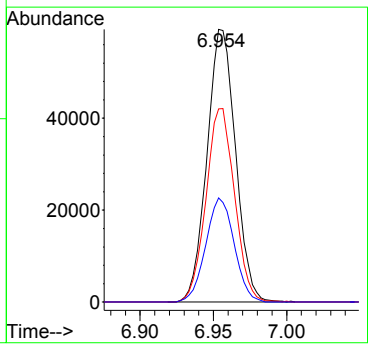


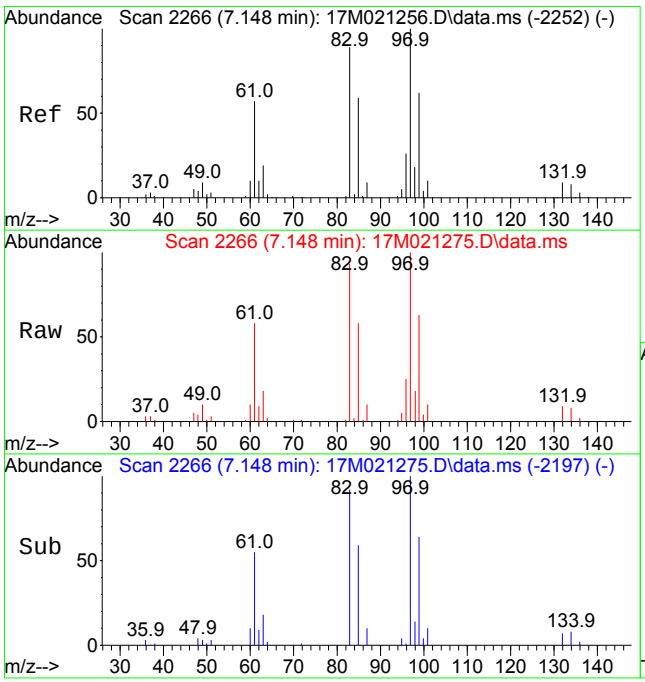


#49
Tetrachloroethene
Concen: 15.1764 ug/L
RT: 6.954 min Scan# 2199
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:166 Resp: 80566

Ion	Ratio	Lower	Upper
166	100		
129	71.0	56.7	85.1
94	38.0	30.7	46.1

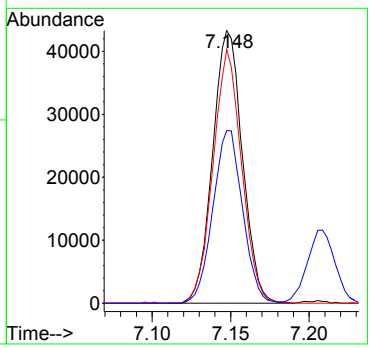


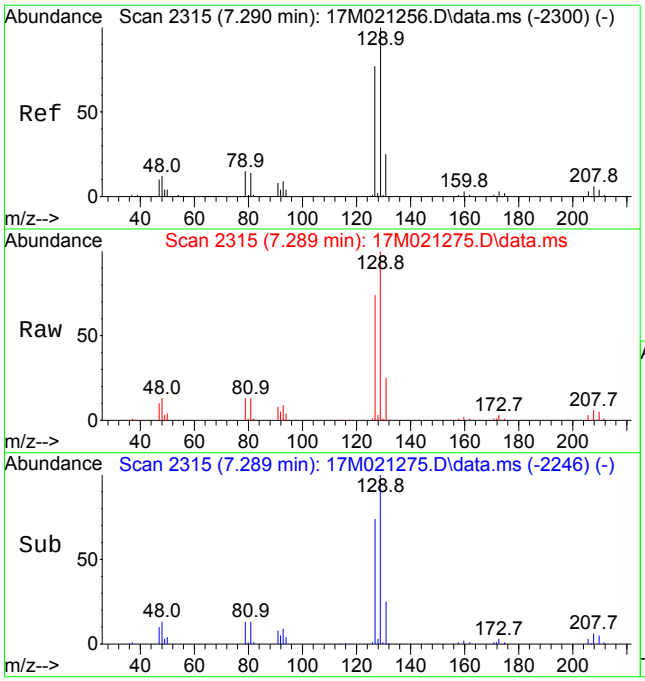


#50
1,1,2-Trichloroethane
Concen: 18.8993 ug/L
RT: 7.148 min Scan# 2266
Delta R.T. -0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 97 Resp: 57079

Ion	Ratio	Lower	Upper
97	100		
83	89.4	53.5	124.9
99	63.1	37.8	88.2

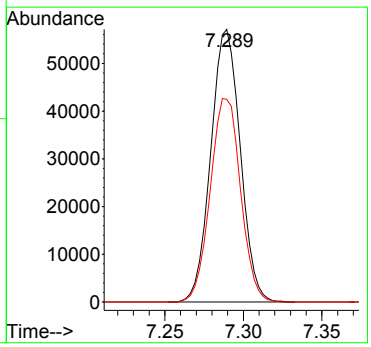


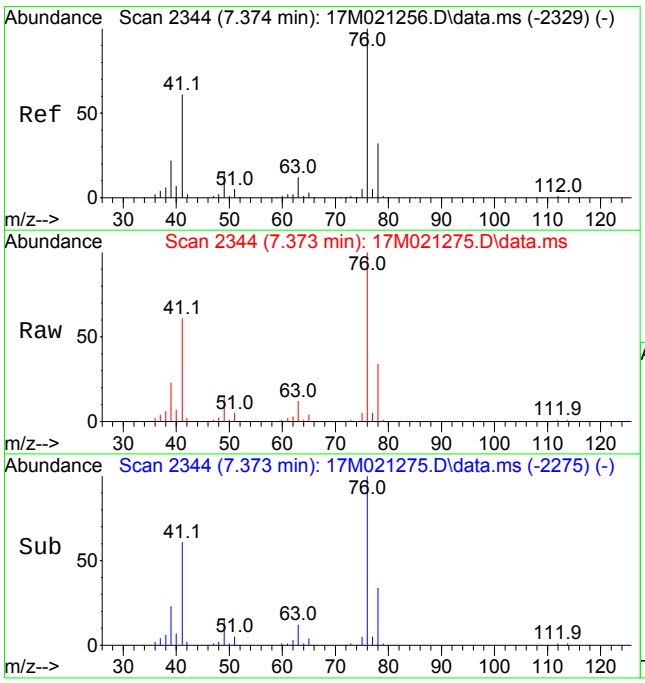


#51
Dibromochloromethane
Concen: 17.9194 ug/L
RT: 7.289 min Scan# 2315
Delta R.T. -0.001 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:129 Resp: 74673

Ion	Ratio	Lower	Upper
129	100		
127	76.6	61.4	92.2

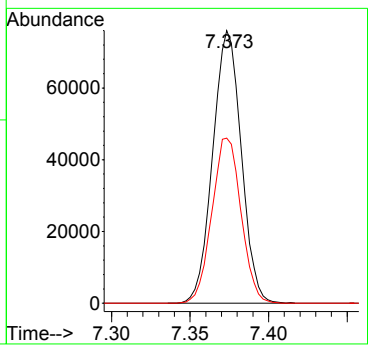


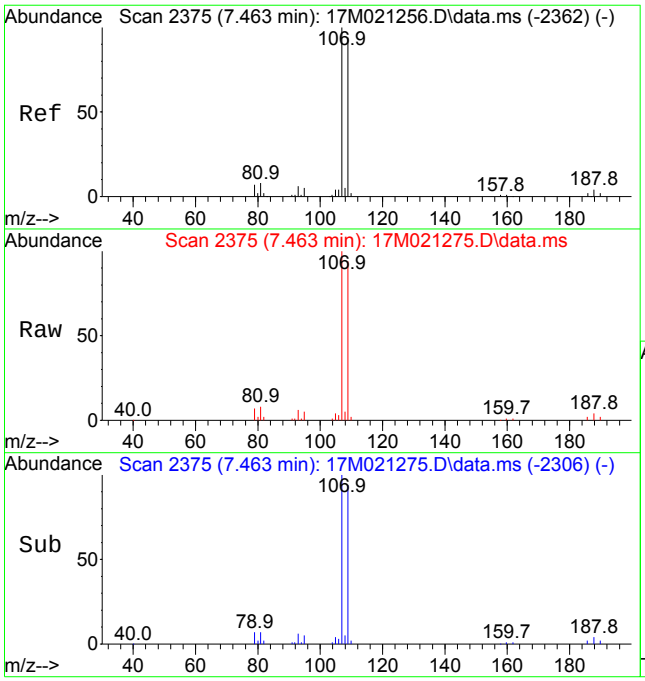


#52
1,3-Dichloropropane
Concen: 19.7933 ug/L
RT: 7.373 min Scan# 2344
Delta R.T. -0.001 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 76 Resp: 96141

Ion	Ratio	Lower	Upper
76	100		
41	61.9	37.4	87.2

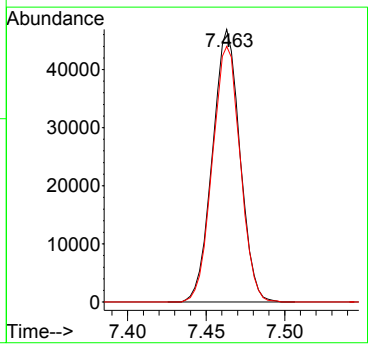


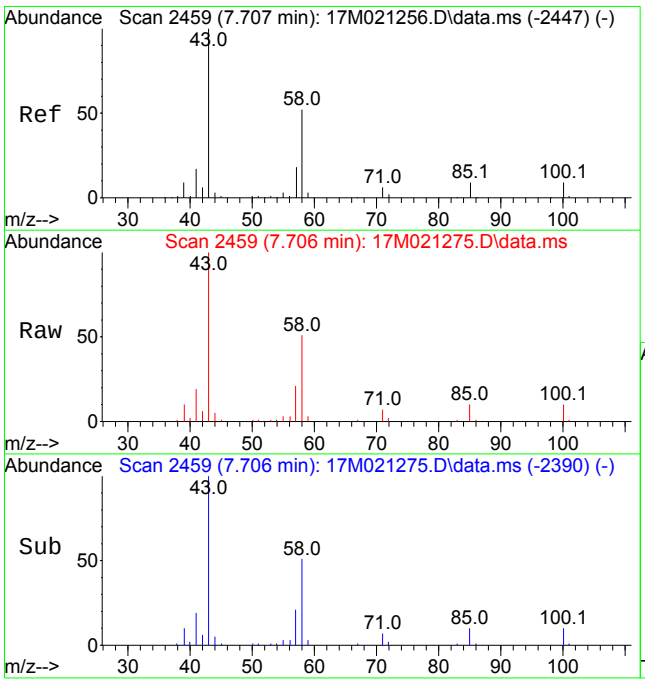


#53
1,2-Dibromoethane
Concen: 18.9150 ug/L
RT: 7.463 min Scan# 2375
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:107 Resp: 57152

Ion	Ratio	Lower	Upper
107	100		
109	94.8	56.6	132.2

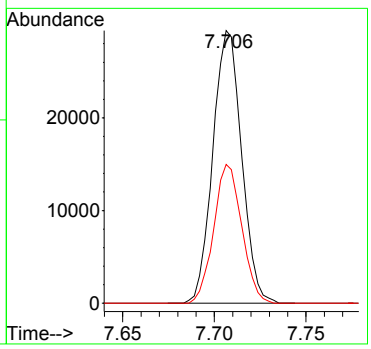


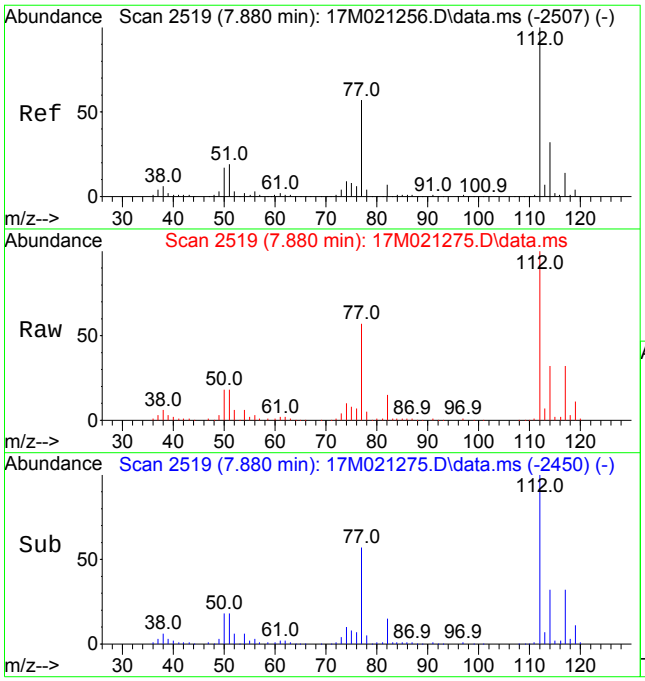


#54
2-Hexanone
Concen: 21.2840 ug/L
RT: 7.706 min Scan# 2459
Delta R.T. -0.001 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 43 Resp: 32094

Ion	Ratio	Lower	Upper
43	100		
58	49.6	41.4	62.2

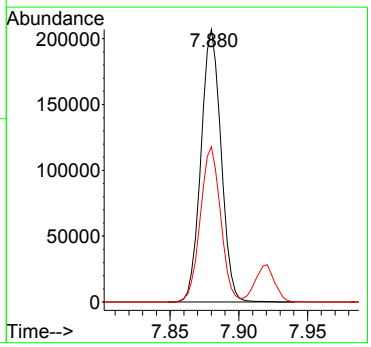


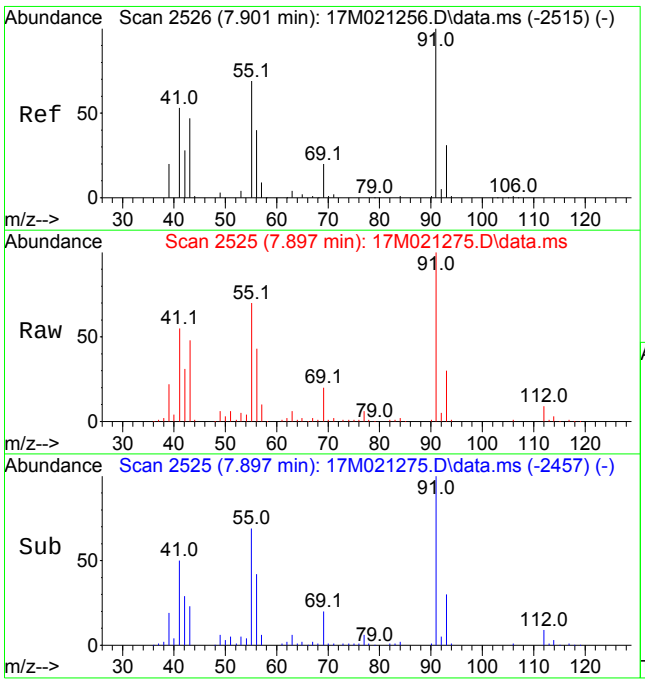


#55
Chlorobenzene
Concen: 17.5308 ug/L
RT: 7.880 min Scan# 2519
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:112 Resp: 210281

Ion	Ratio	Lower	Upper
112	100		
77	57.5	34.3	80.1

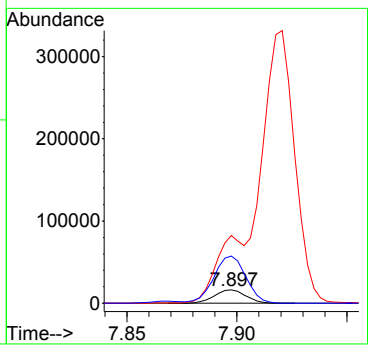


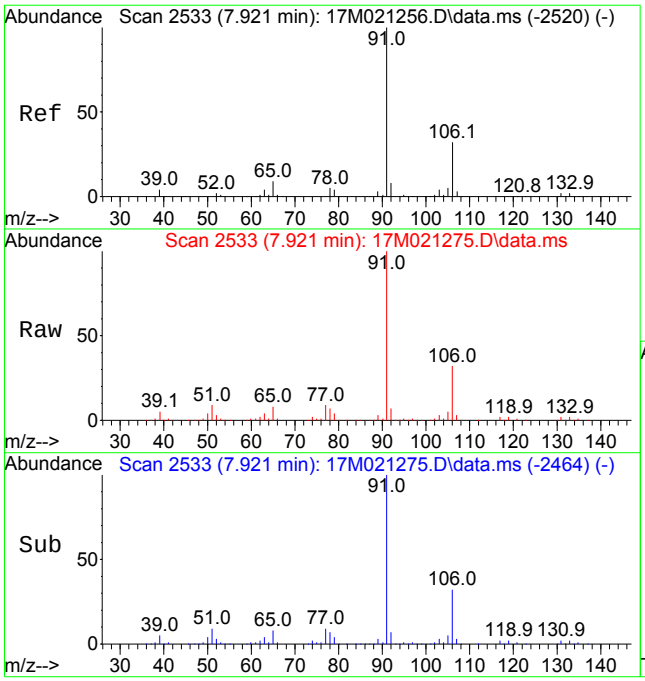


#56
1-Chlorohexane
Concen: 16.1874 ug/L
RT: 7.897 min Scan# 2525
Delta R.T. -0.004 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 69 Resp: 16075

Ion	Ratio	Lower	Upper
69	100		
91	2566.7	1913.8	2870.6
55	378.6	297.2	445.8

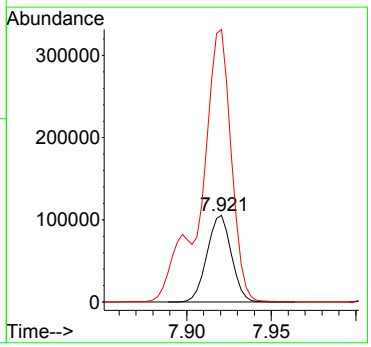


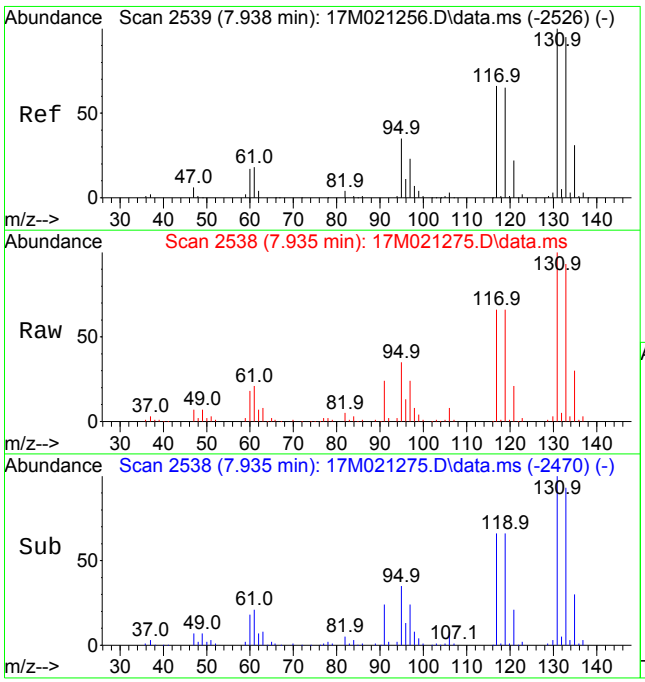


#57
Ethylbenzene
Concen: 16.6747 ug/L
RT: 7.921 min Scan# 2533
Delta R.T. -0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:106 Resp: 105197

Ion	Ratio	Lower	Upper
106	100		
91	392.2	318.2	477.2

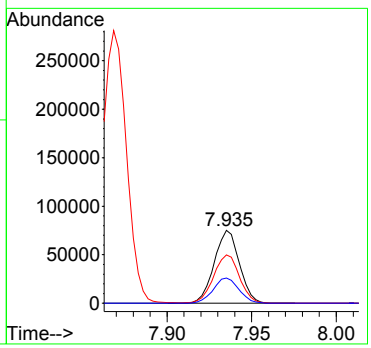


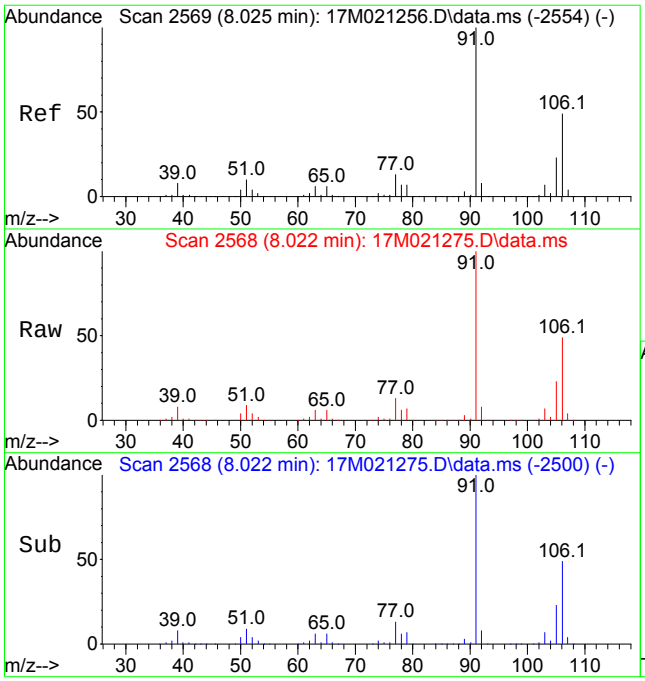


#58
1,1,1,2-Tetrachloroethane
Concen: 18.4940 ug/L
RT: 7.935 min Scan# 2538
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:131 Resp: 77437

Ion	Ratio	Lower	Upper
131	100		
117	68.5	40.9	95.5
95	35.4	21.7	50.5

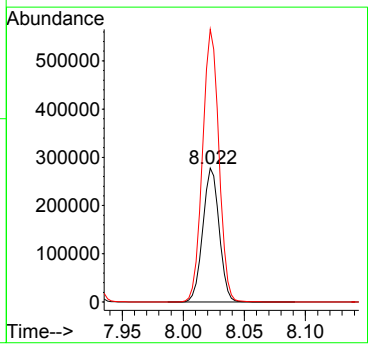


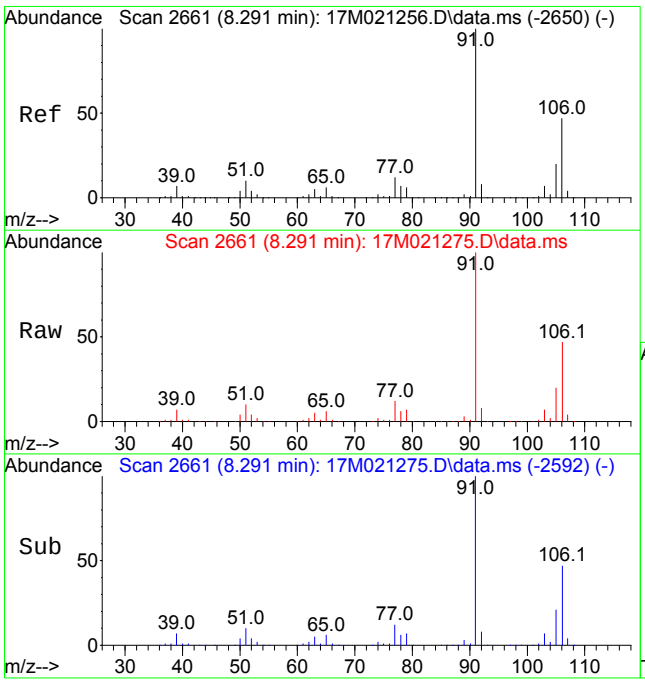


#59
m-,p-Xylene
Concen: 34.6293 ug/L
RT: 8.022 min Scan# 2568
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:106 Resp: 258682

Ion	Ratio	Lower	Upper
106	100		
91	203.7	121.7	283.9

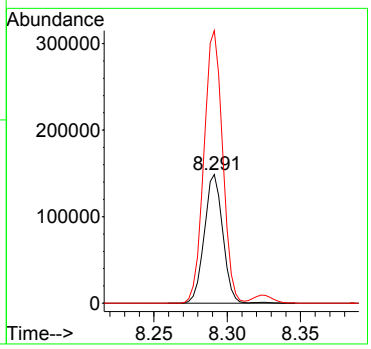


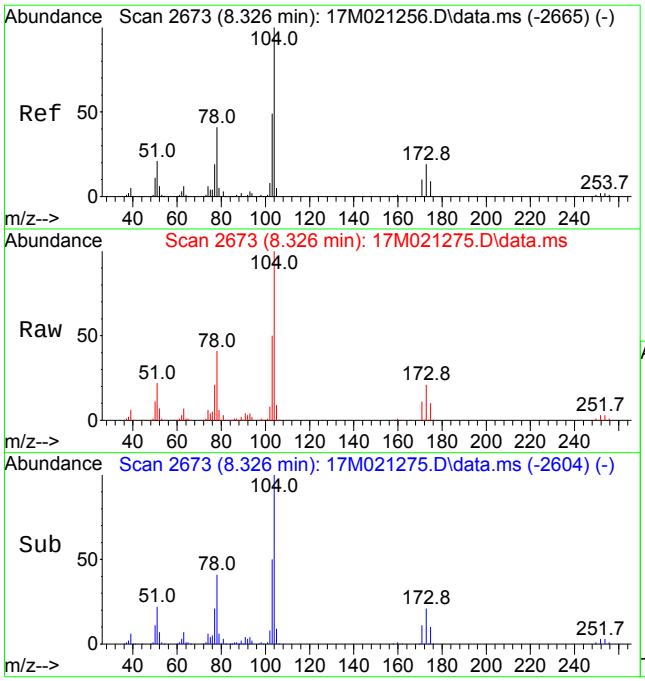


#60
o-Xylene
Concen: 17.8035 ug/L
RT: 8.291 min Scan# 2661
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:106 Resp: 130521

Ion	Ratio	Lower	Upper
106	100		
91	214.0	129.8	302.8

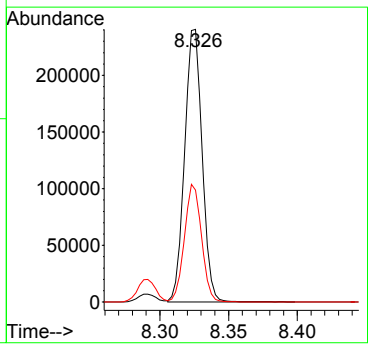


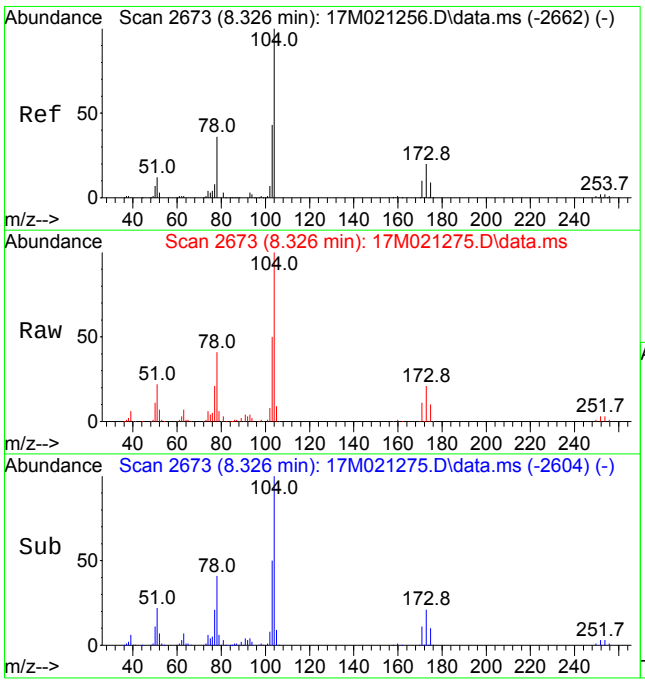


#61
Styrene
Concen: 18.2645 ug/L
RT: 8.326 min Scan# 2673
Delta R.T. -0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:104 Resp: 213551

Ion	Ratio	Lower	Upper
104	100		
78	42.2	25.3	58.9

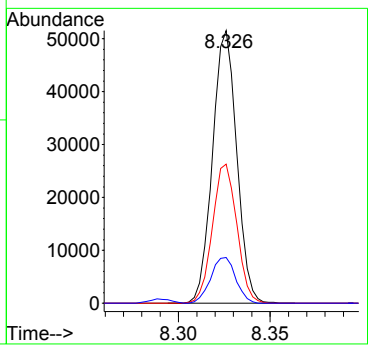


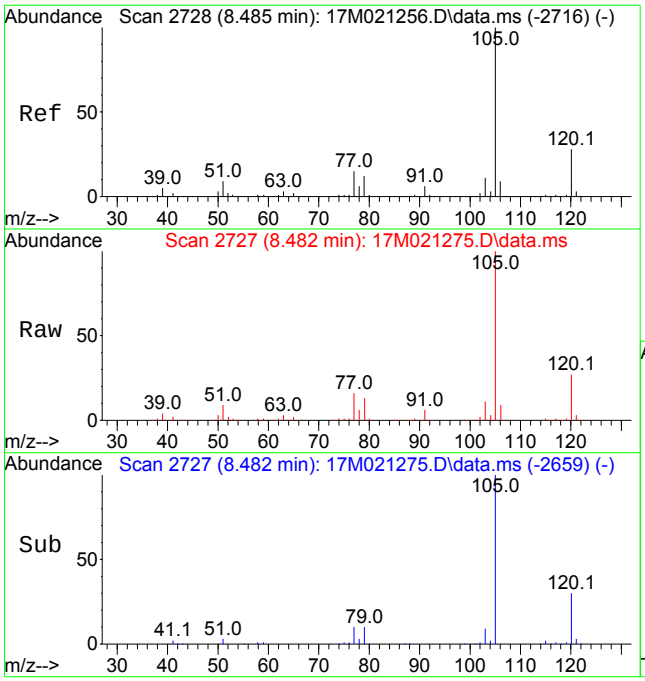


#62
Bromoform
Concen: 17.7328 ug/L
RT: 8.326 min Scan# 2673
Delta R.T. -0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:173 Resp: 47265

Ion	Ratio	Lower	Upper
173	100		
171	51.3	30.8	72.0
93	17.3	10.6	24.8

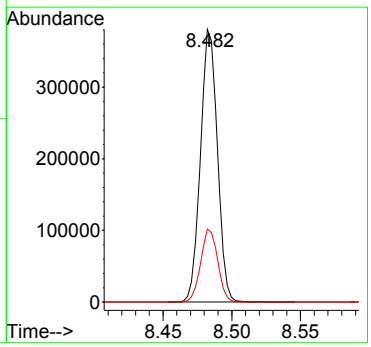


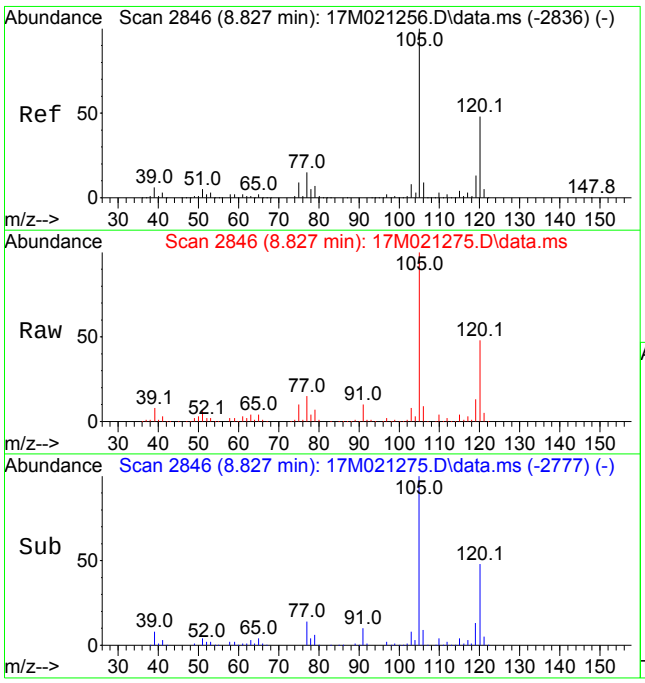


#63
Isopropylbenzene
Concen: 17.1872 ug/L
RT: 8.482 min Scan# 2727
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:105 Resp: 326421

Ion	Ratio	Lower	Upper
105	100		
120	26.8	16.1	37.5

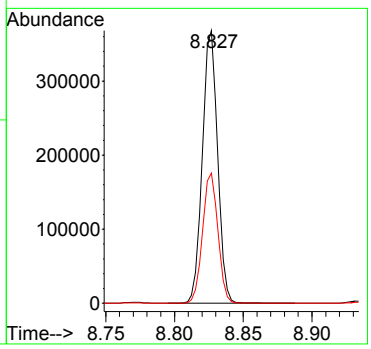


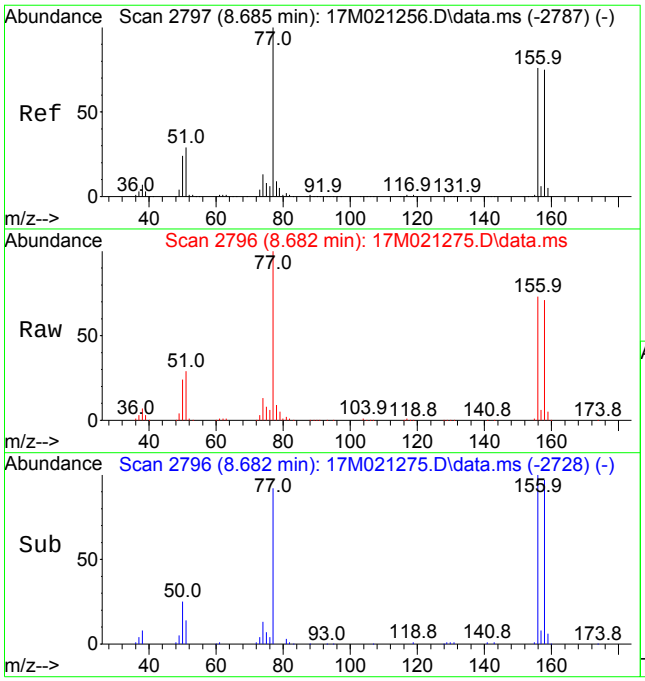


#65
1,3,5-Trimethylbenzene
Concen: 17.5224 ug/L
RT: 8.827 min Scan# 2846
Delta R.T. -0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:105 Resp: 284223

Ion	Ratio	Lower	Upper
105	100		
120	48.0	38.7	58.1

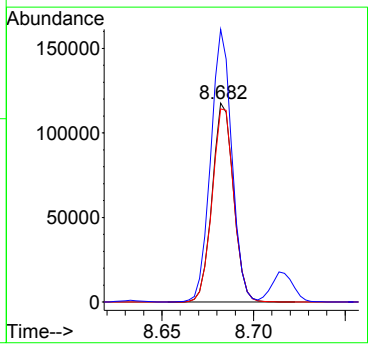


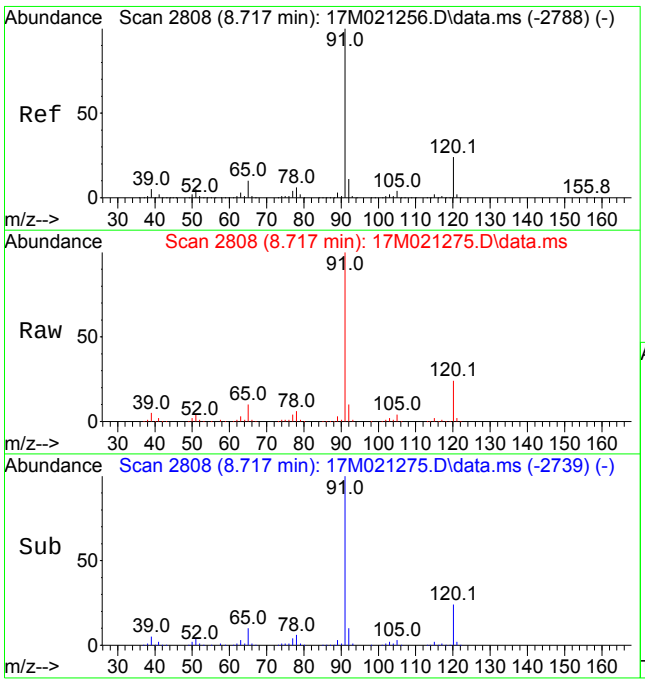


#67
Bromobenzene
Concen: 17.1994 ug/L
RT: 8.682 min Scan# 2796
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:156 Resp: 95397

Ion	Ratio	Lower	Upper
156	100		
158	98.5	78.4	117.6
77	135.2	108.0	162.0

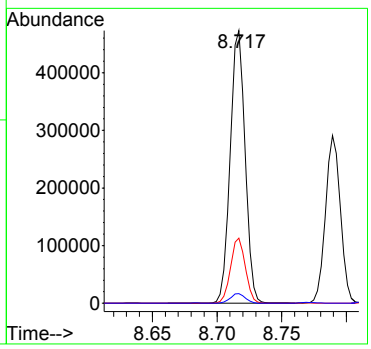


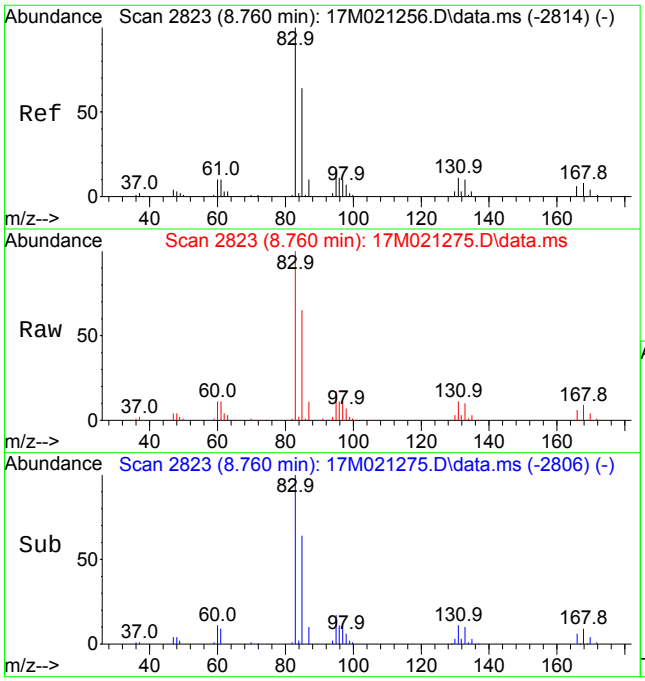


#68
n-Propylbenzene
Concen: 17.4824 ug/L
RT: 8.717 min Scan# 2808
Delta R.T. -0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 91 Resp: 378160

Ion	Ratio	Lower	Upper
91	100		
120	23.6	14.3	33.5
105	3.5	2.1	4.9

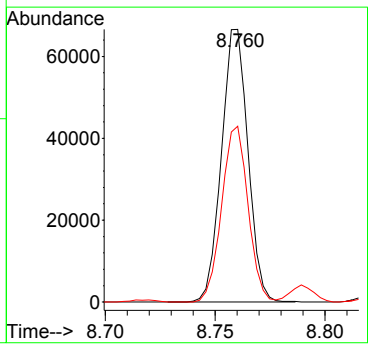


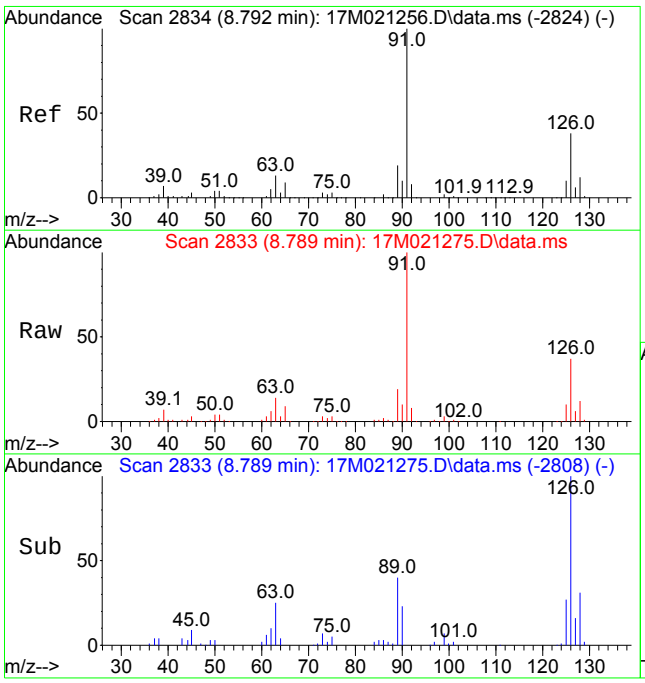


#69
1,1,2,2-Tetrachloroethane
Concen: 24.4564 ug/L
RT: 8.760 min Scan# 2823
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 83 Resp: 55902

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.8	77.6

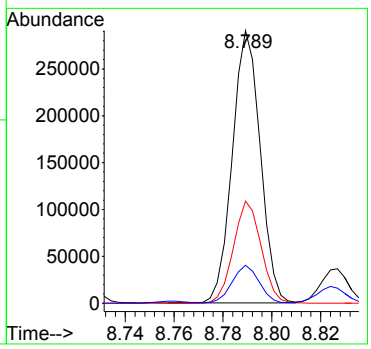


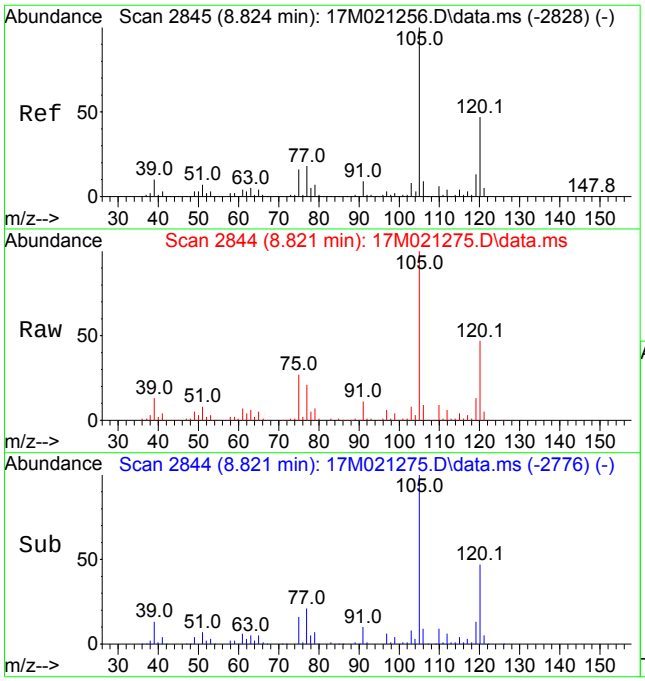


#70
2-Chlorotoluene
Concen: 17.3291 ug/L
RT: 8.789 min Scan# 2833
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 91 Resp: 231218

Ion	Ratio	Lower	Upper
91	100		
126	37.2	22.1	51.5
63	13.5	8.2	19.0

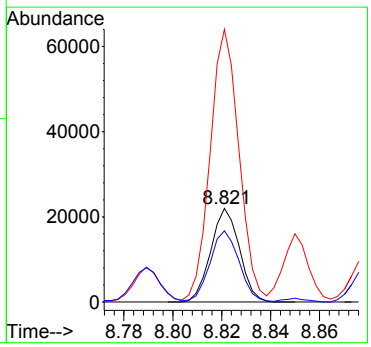


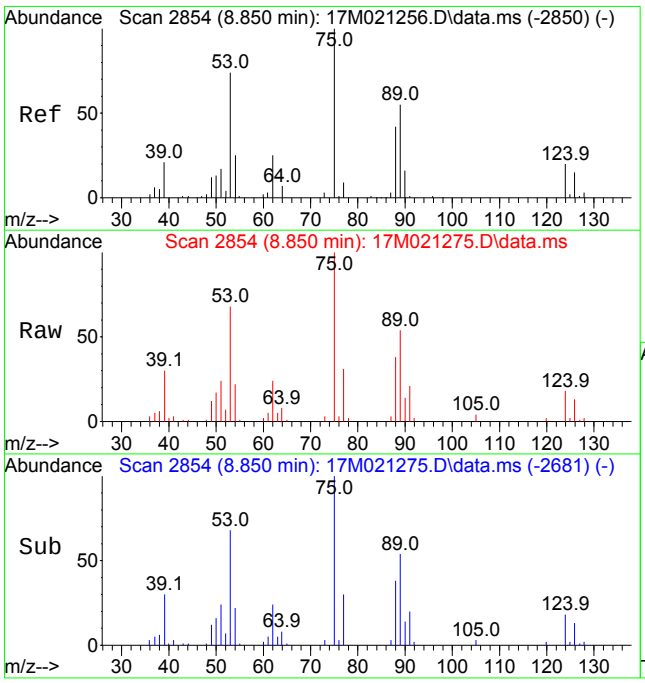


#71
1,2,3-Trichloropropane
Concen: 19.8262 ug/L
RT: 8.821 min Scan# 2844
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:110 Resp: 17927

Ion	Ratio	Lower	Upper
110	100		
75	292.8	239.0	358.6
61	74.0	63.0	94.4

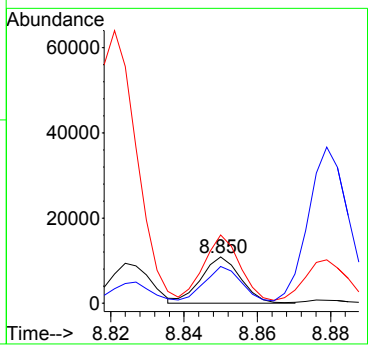


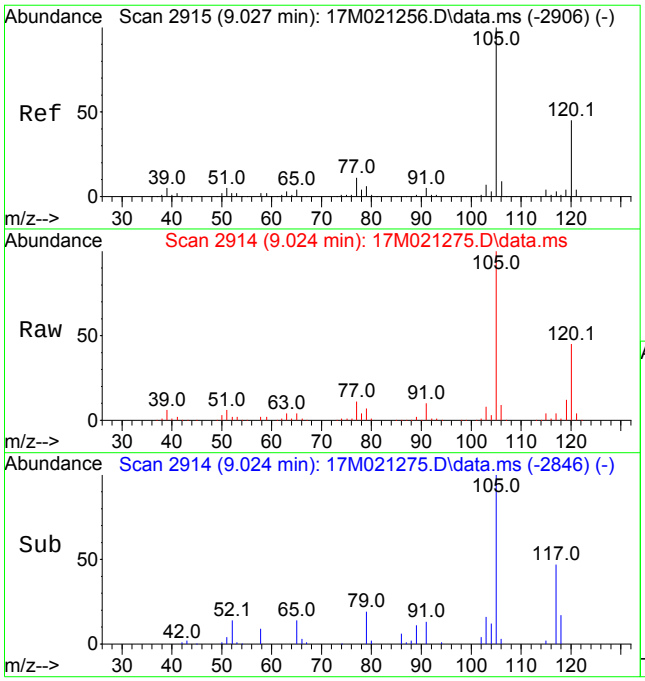


#72
trans-1,4-Dichloro-2-Butene
Concen: 18.6060 ug/L
RT: 8.850 min Scan# 2854
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 53 Resp: 8181

Ion	Ratio	Lower	Upper
53	100		
75	132.5	142.1	142.1#
89	78.4	62.3	93.5

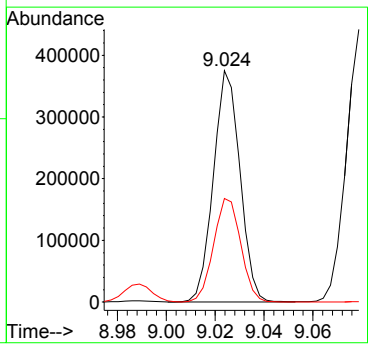


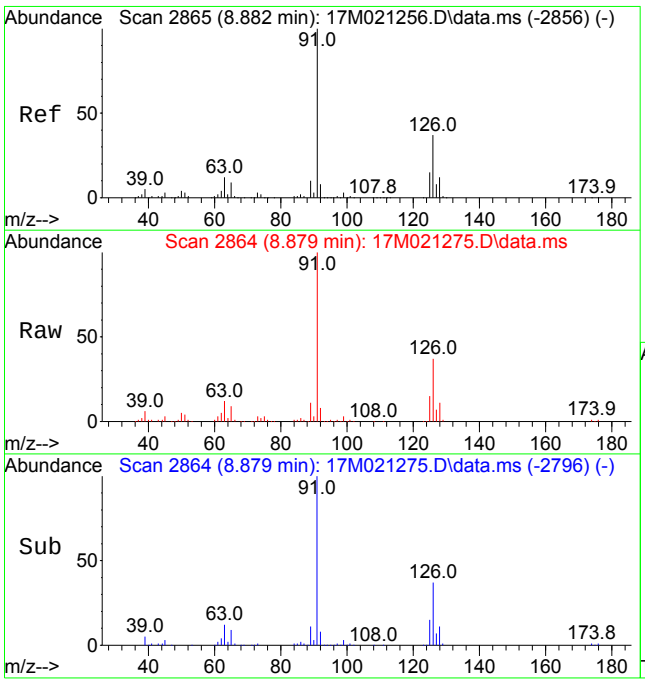


#73
1,2,4-Trimethylbenzene
Concen: 17.4457 ug/L
RT: 9.024 min Scan# 2914
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:105 Resp: 283180

Ion	Ratio	Lower	Upper
105	100		
120	45.8	36.6	54.8

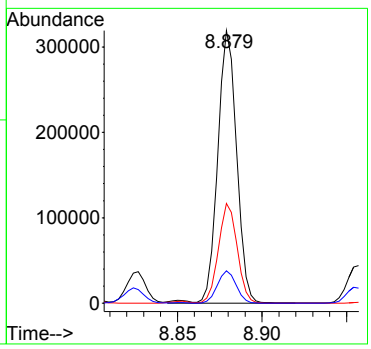


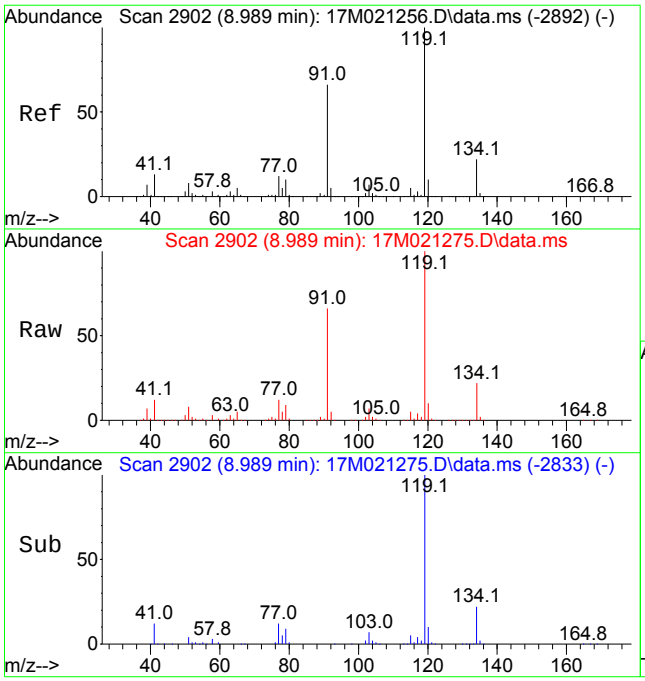


#74
4-Chlorotoluene
Concen: 17.9244 ug/L
RT: 8.879 min Scan# 2864
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 91 Resp: 247941

Ion	Ratio	Lower	Upper
91	100		
126	36.8	22.3	51.9
63	11.8	7.2	16.8

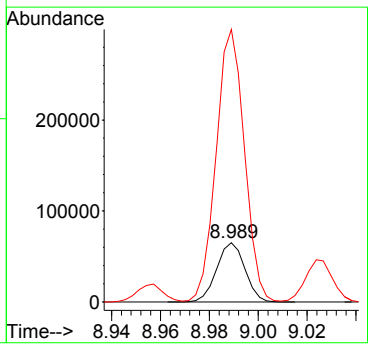


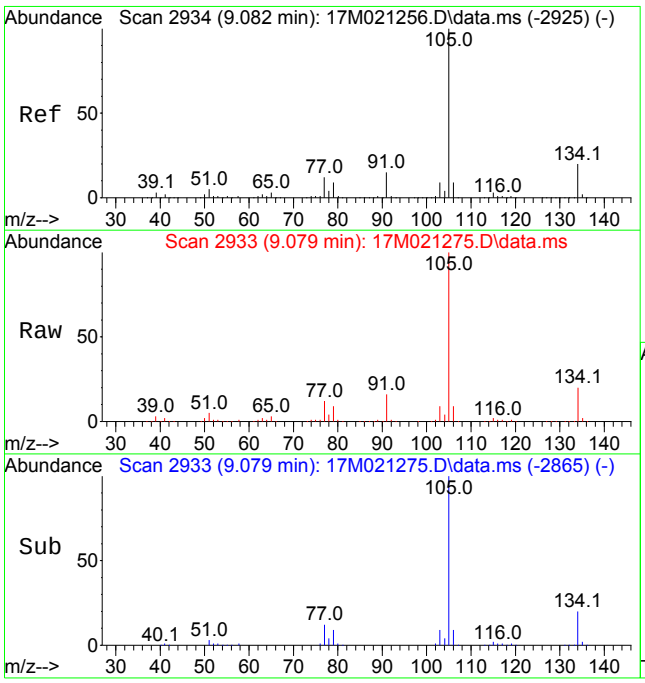


#75
tert-Butylbenzene
Concen: 17.1315 ug/L
RT: 8.989 min Scan# 2902
Delta R.T. -0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:134 Resp: 52295

Ion	Ratio	Lower	Upper
134	100		
119	460.5	274.2	639.8

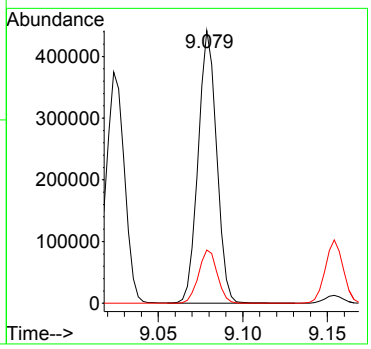


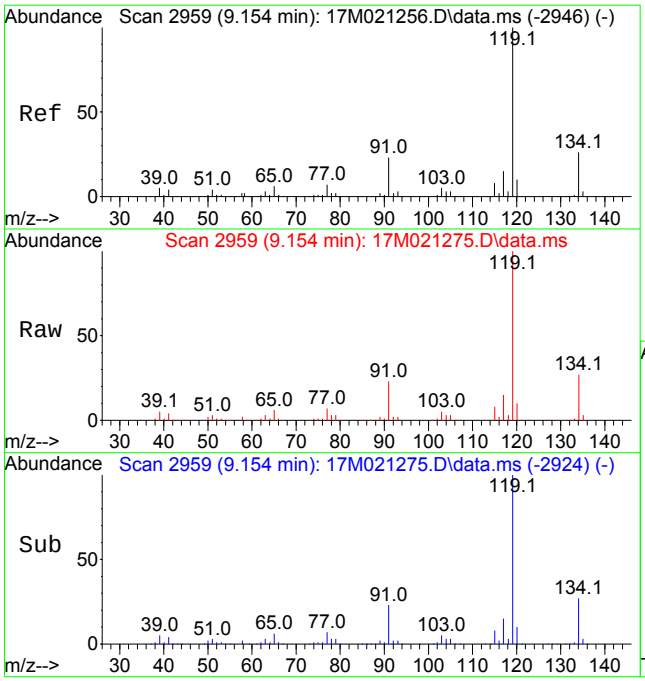


#76
sec-Butylbenzene
Concen: 16.6598 ug/L
RT: 9.079 min Scan# 2933
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:105 Resp: 335939

Ion	Ratio	Lower	Upper
105	100		
134	19.8	11.9	27.9

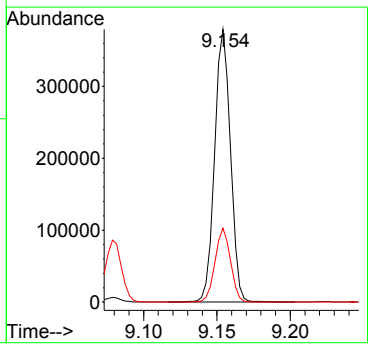


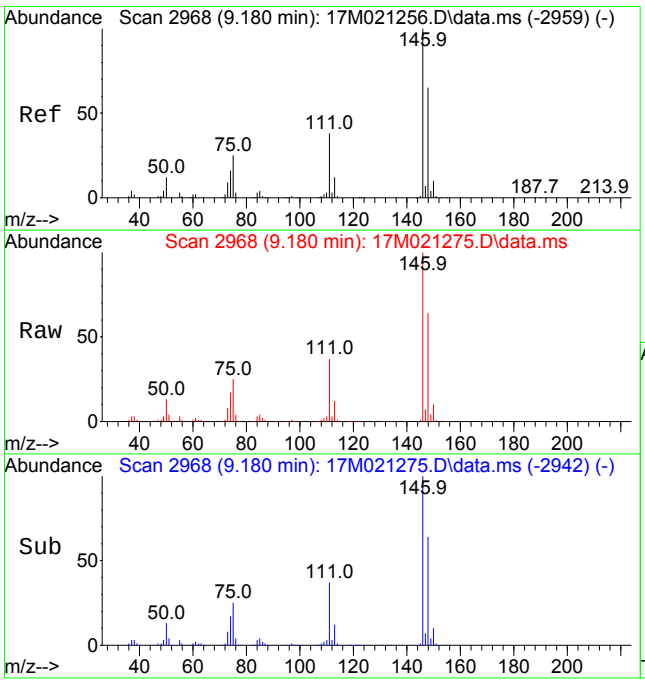


#77
p-Isopropyltoluene
Concen: 16.9763 ug/L
RT: 9.154 min Scan# 2959
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:119 Resp: 284826

Ion	Ratio	Lower	Upper
119	100		
134	26.4	16.0	37.4

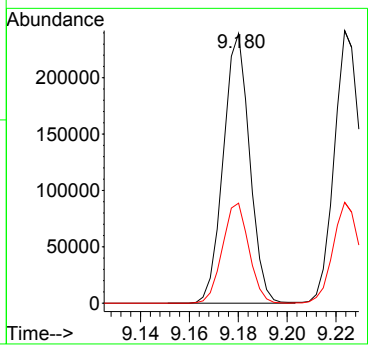


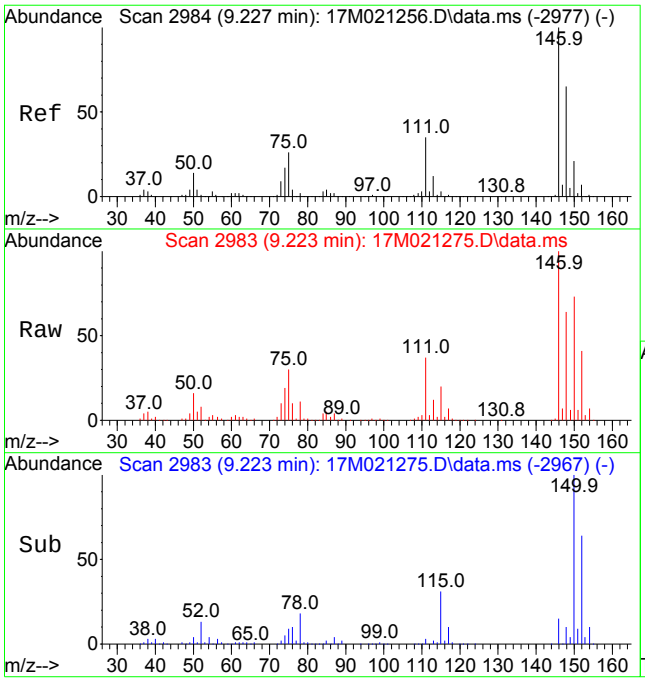


#78
1,3-Dichlorobenzene
Concen: 17.7899 ug/L
RT: 9.180 min Scan# 2968
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:146 Resp: 179416

Ion	Ratio	Lower	Upper
146	100		
111	37.4	22.4	52.2

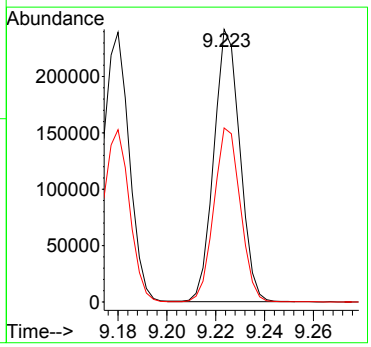


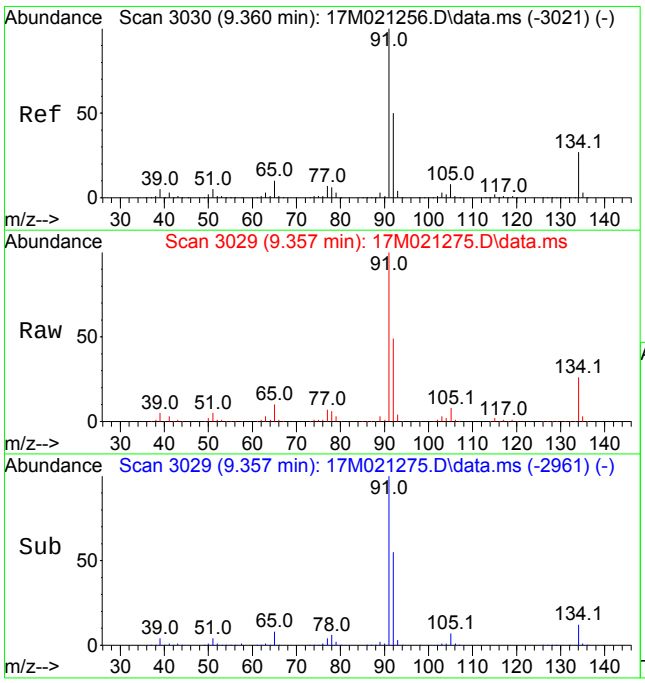


#79
1,4-Dichlorobenzene
Concen: 17.1907 ug/L
RT: 9.223 min Scan# 2983
Delta R.T. -0.004 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:146 Resp: 178908

Ion	Ratio	Lower	Upper
146	100		
148	64.8	51.6	77.4

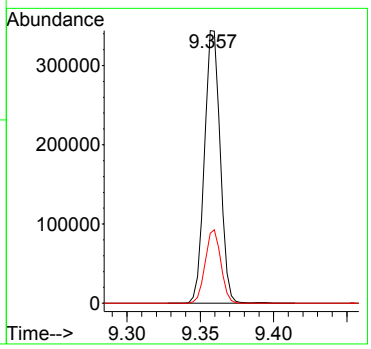


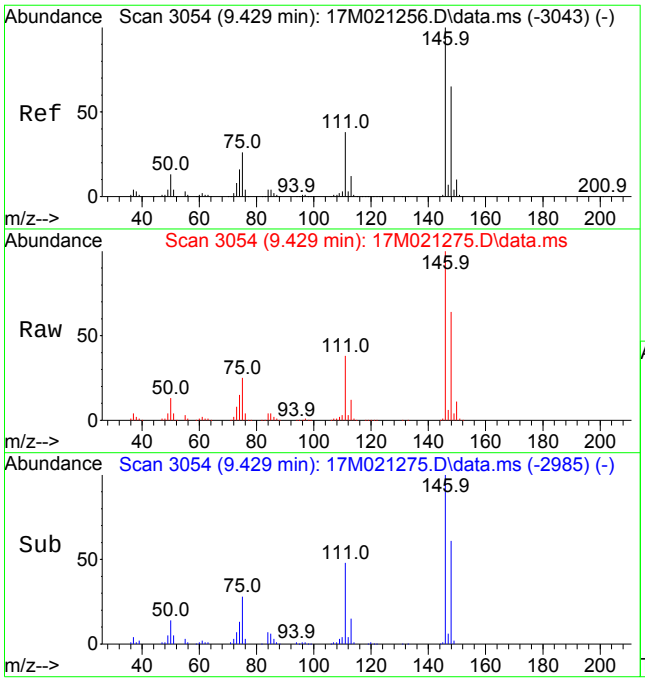


#80
n-Butylbenzene
Concen: 16.4568 ug/L
RT: 9.357 min Scan# 3029
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 91 Resp: 257352

Ion	Ratio	Lower	Upper
91	100		
134	26.7	16.1	37.5

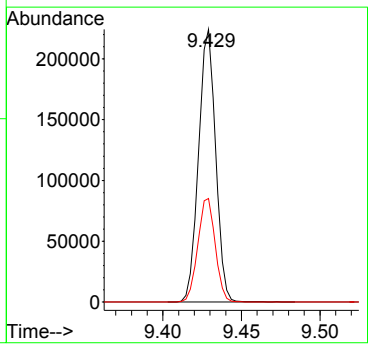


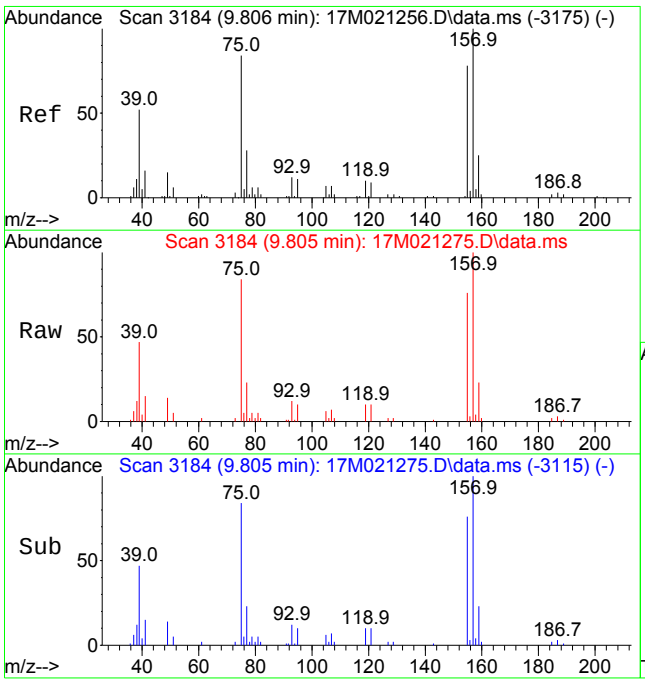


#81
1,2-Dichlorobenzene
Concen: 17.8857 ug/L
RT: 9.429 min Scan# 3054
Delta R.T. 0.000 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:146 Resp: 169093

Ion	Ratio	Lower	Upper
146	100		
111	38.8	23.1	53.9

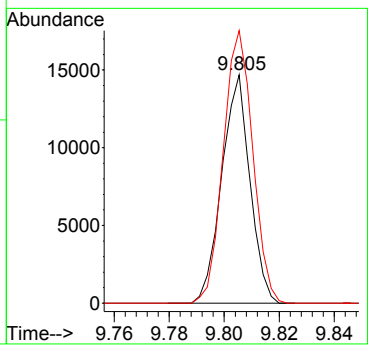


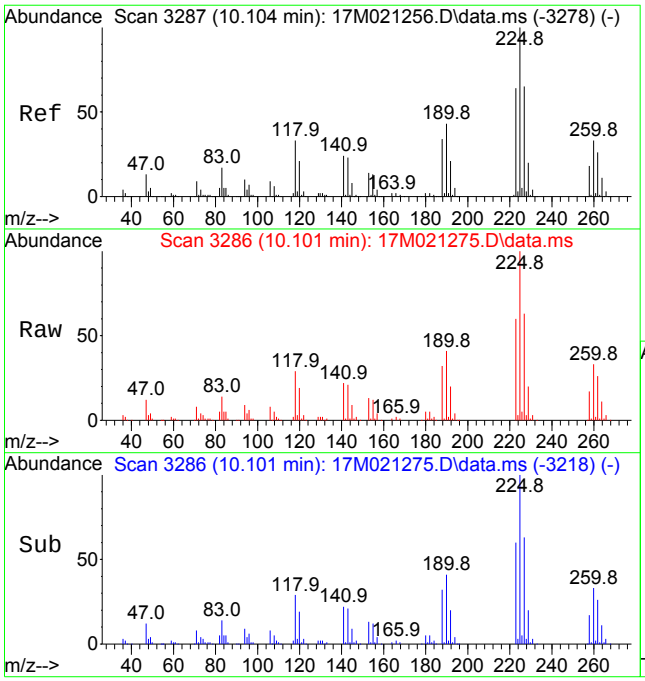


#82
1,2-Dibromo-3-Chloropropane
Concen: 21.5207 ug/L
RT: 9.805 min Scan# 3184
Delta R.T. -0.001 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion: 75 Resp: 10443

Ion	Ratio	Lower	Upper
75	100		
157	125.0	74.8	174.4

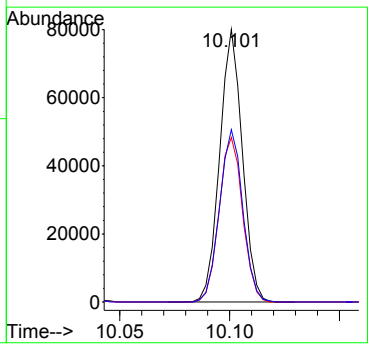


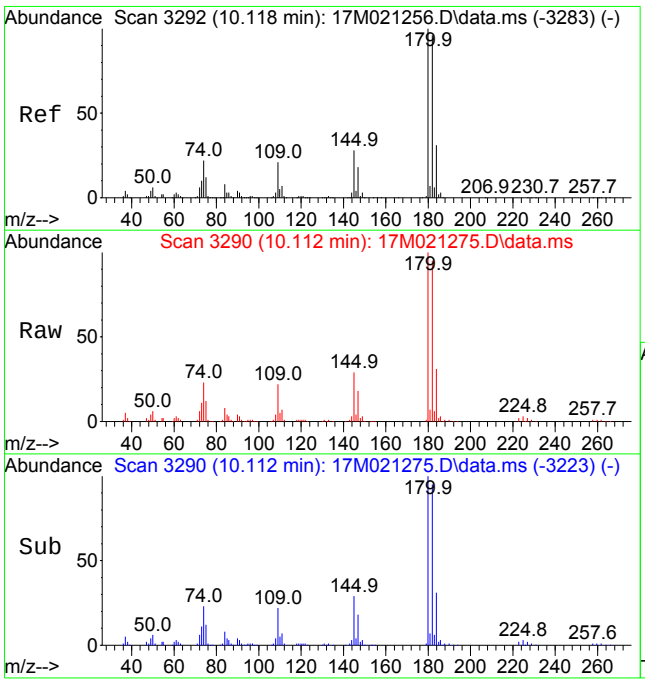


#83
Hexachlorobutadiene
Concen: 15.6033 ug/L
RT: 10.101 min Scan# 3286
Delta R.T. -0.003 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:225 Resp: 57324

Ion	Ratio	Lower	Upper
225	100		
223	62.6	50.1	75.1
227	64.8	51.8	77.8

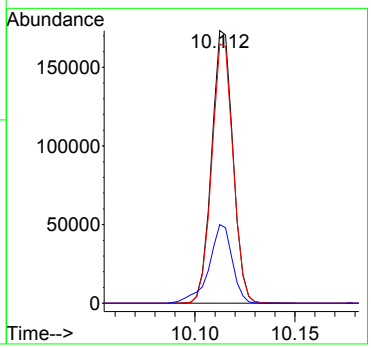


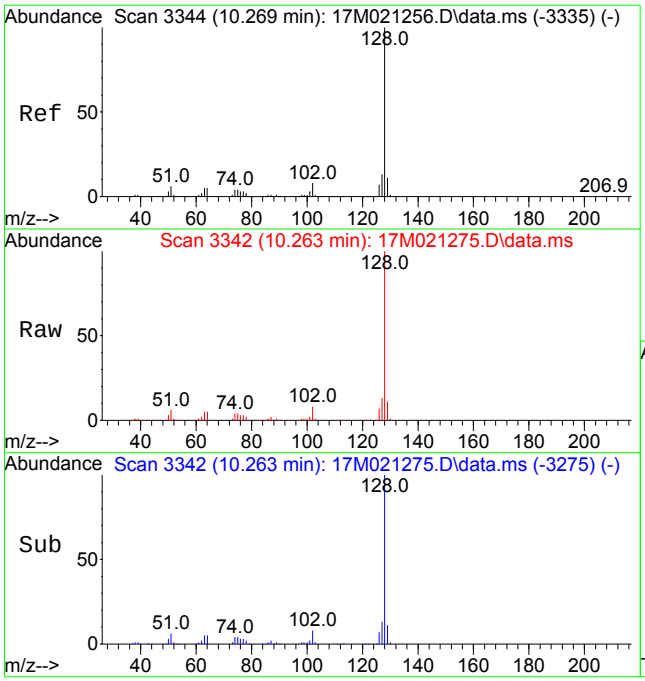


#84
1,2,4-Trichlorobenzene
Concen: 18.3431 ug/L
RT: 10.112 min Scan# 3290
Delta R.T. -0.006 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:180 Resp: 128444

Ion	Ratio	Lower	Upper
180	100		
182	95.5	57.5	134.1
145	31.5	19.4	45.2

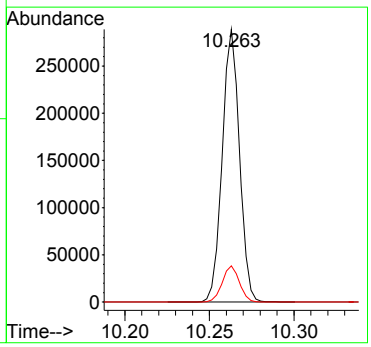


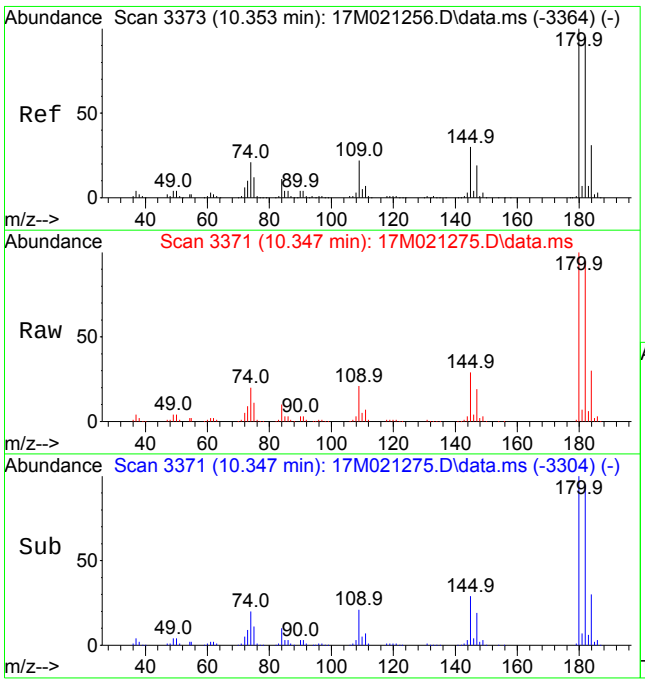


#85
Naphthalene
Concen: 19.0657 ug/L
RT: 10.263 min Scan# 3342
Delta R.T. -0.006 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:128 Resp: 203738

Ion	Ratio	Lower	Upper
128	100		
127	13.1	7.8	18.2

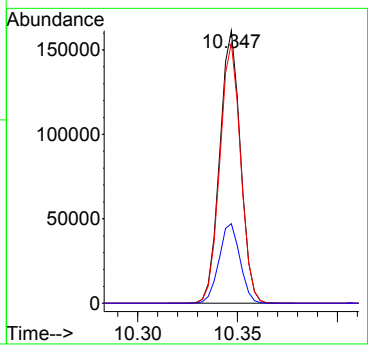




#86
1,2,3-Trichlorobenzene
Concen: 18.9255 ug/L
RT: 10.347 min Scan# 3371
Delta R.T. -0.006 min
Lab File: 17M021275.D
Acq: 20 May 2016 22:26

Tgt Ion:180 Resp: 116205

Ion	Ratio	Lower	Upper
180	100		
182	95.6	57.4	134.0
145	29.6	17.8	41.4



Data File : D:\MassHunter\GCMS\1\data\052016\17M021289.D Vial: 35
Acq On : 21 May 2016 03:02 Operator: ADC
Sample : L16050763-17 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:13:00 2016

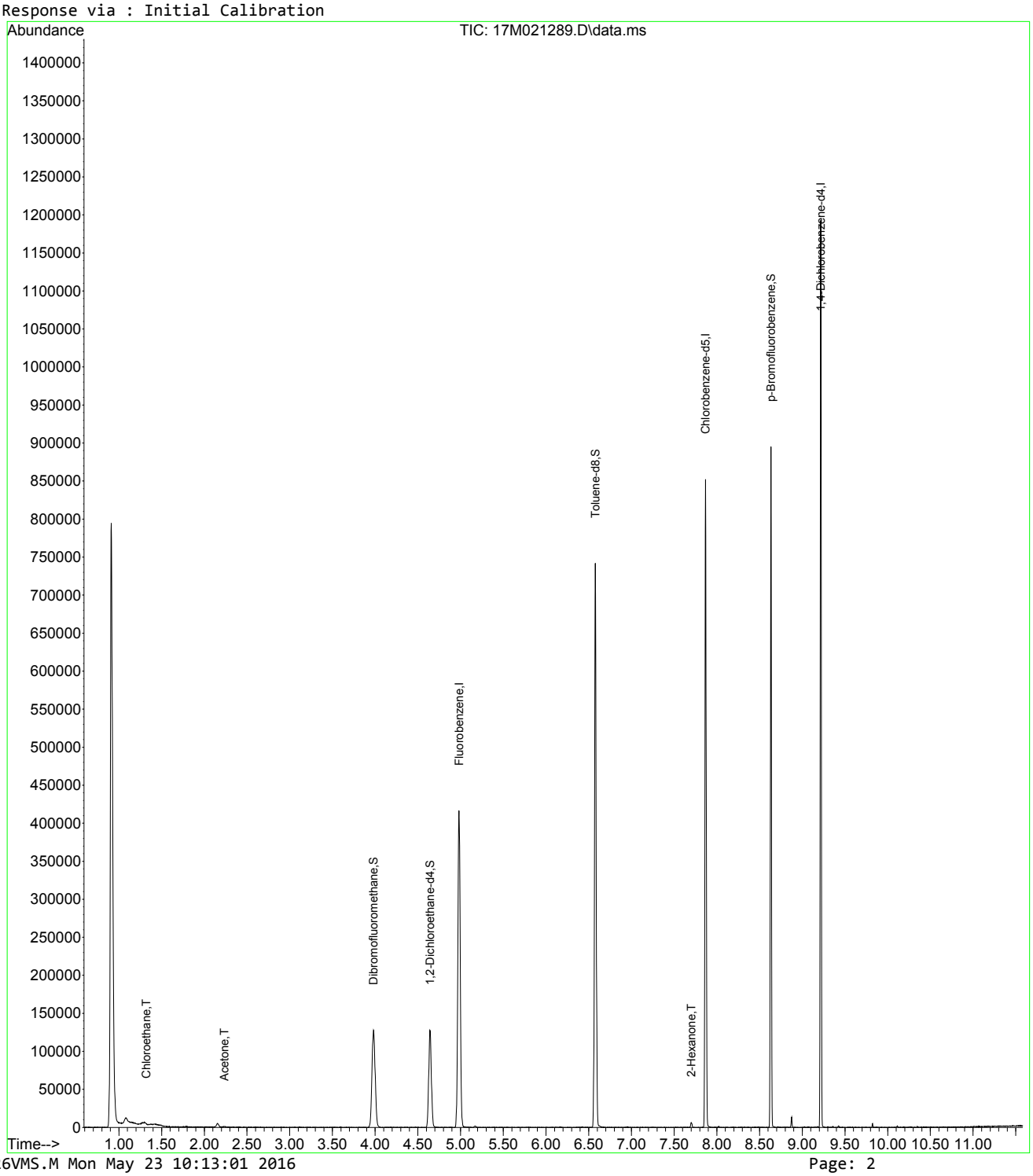
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

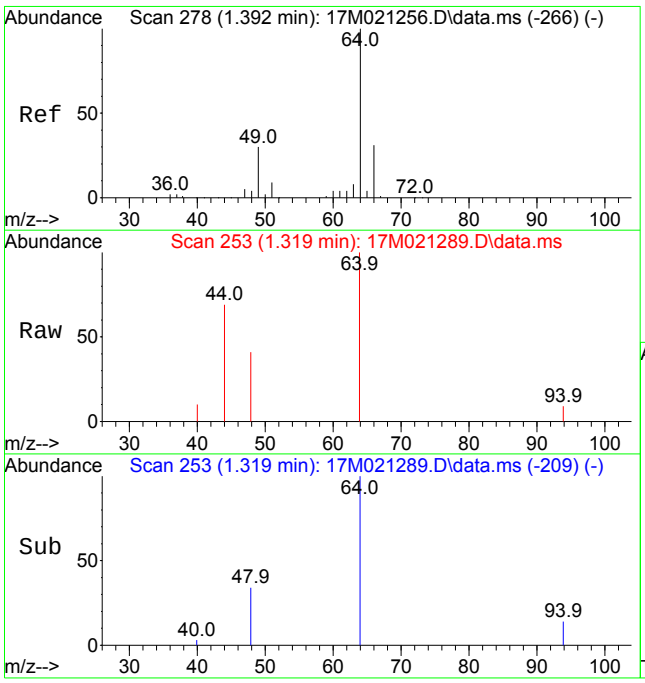
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	392805	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	297947	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	161307	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.980	111	104381	25.0898	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.359%			
34) 1,2-Dichloroethane-d4	4.640	65	103488	26.9024	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 107.610%			
47) Toluene-d8	6.577	98	404513	25.4226	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 101.690%			
66) p-Bromofluorobenzene	8.633	95	146684	26.3006	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.202%			
Target Compounds						Qvalue
7) Chloroethane	1.319	64	1334	0.5816	ug/L #	76
16) Acetone	2.231	43	900	1.4486	ug/L #	69
54) 2-Hexanone	7.701	43	721	0.4607	ug/L #	26

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021289.D Vial: 35
Acq On : 21 May 2016 03:02 Operator: ADC
Sample : L16050763-17 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:13:00 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

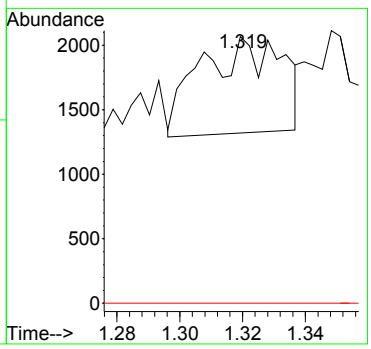


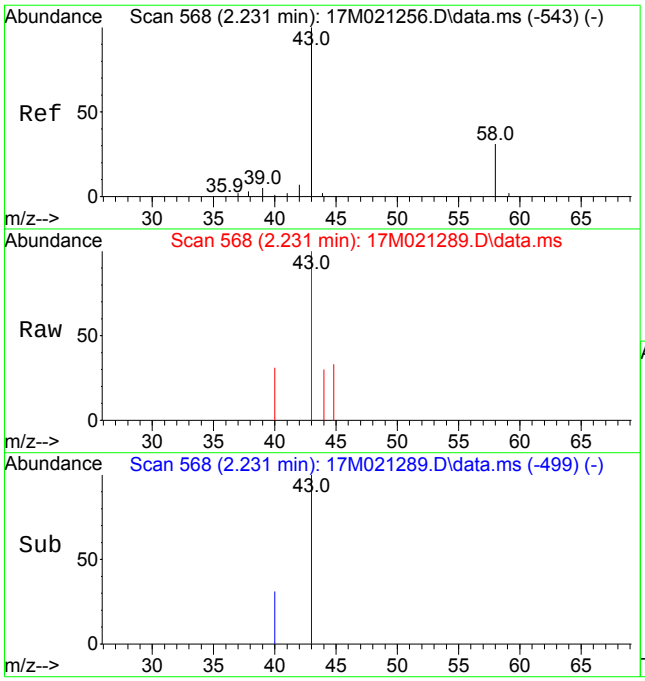


#7
Chloroethane
Concen: 0.5816 ug/L
RT: 1.319 min Scan# 253
Delta R.T. -0.073 min
Lab File: 17M021289.D
Acq: 21 May 2016 03:02

Tgt Ion: 64 Resp: 1334

Ion	Ratio	Lower	Upper
64	100		
49	16.6	17.6	41.0#

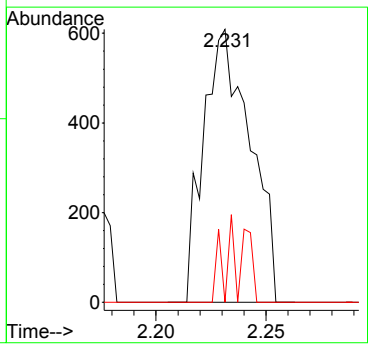


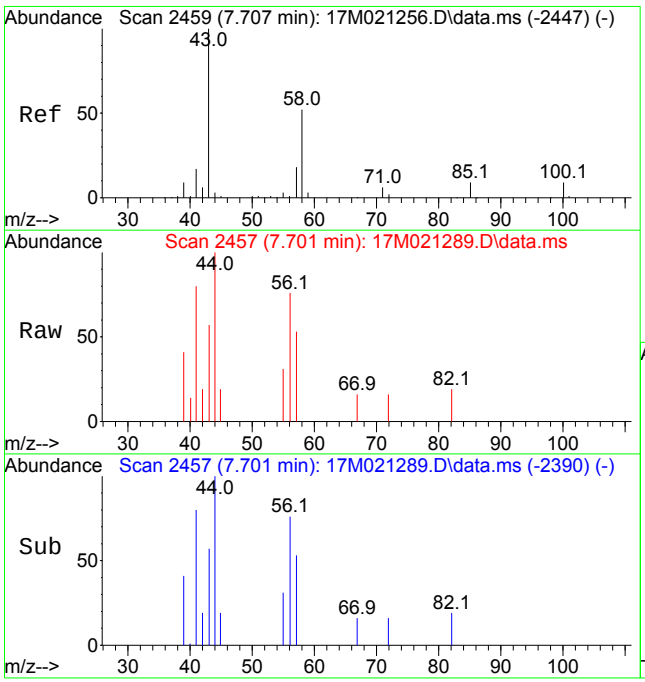


#16
Acetone
Concen: 1.4486 ug/L
RT: 2.231 min Scan# 568
Delta R.T. 0.000 min
Lab File: 17M021289.D
Acq: 21 May 2016 03:02

Tgt Ion: 43 Resp: 900

Ion	Ratio	Lower	Upper
43	100		
58	13.0	17.6	41.2#

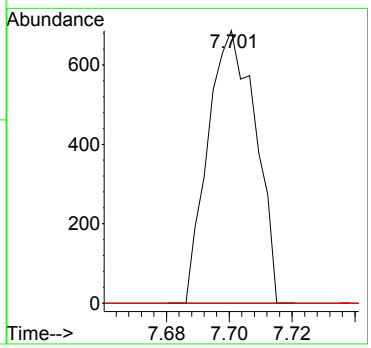




#54
2-Hexanone
Concen: 0.4607 ug/L
RT: 7.701 min Scan# 2457
Delta R.T. -0.006 min
Lab File: 17M021289.D
Acq: 21 May 2016 03:02

Tgt Ion: 43 Resp: 721

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.4	62.2#



Data File : D:\MassHunter\GCMS\1\data\052016\17M021290.D Vial: 36
Acq On : 21 May 2016 03:22 Operator: ADC
Sample : L16050763-18 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:13:03 2016

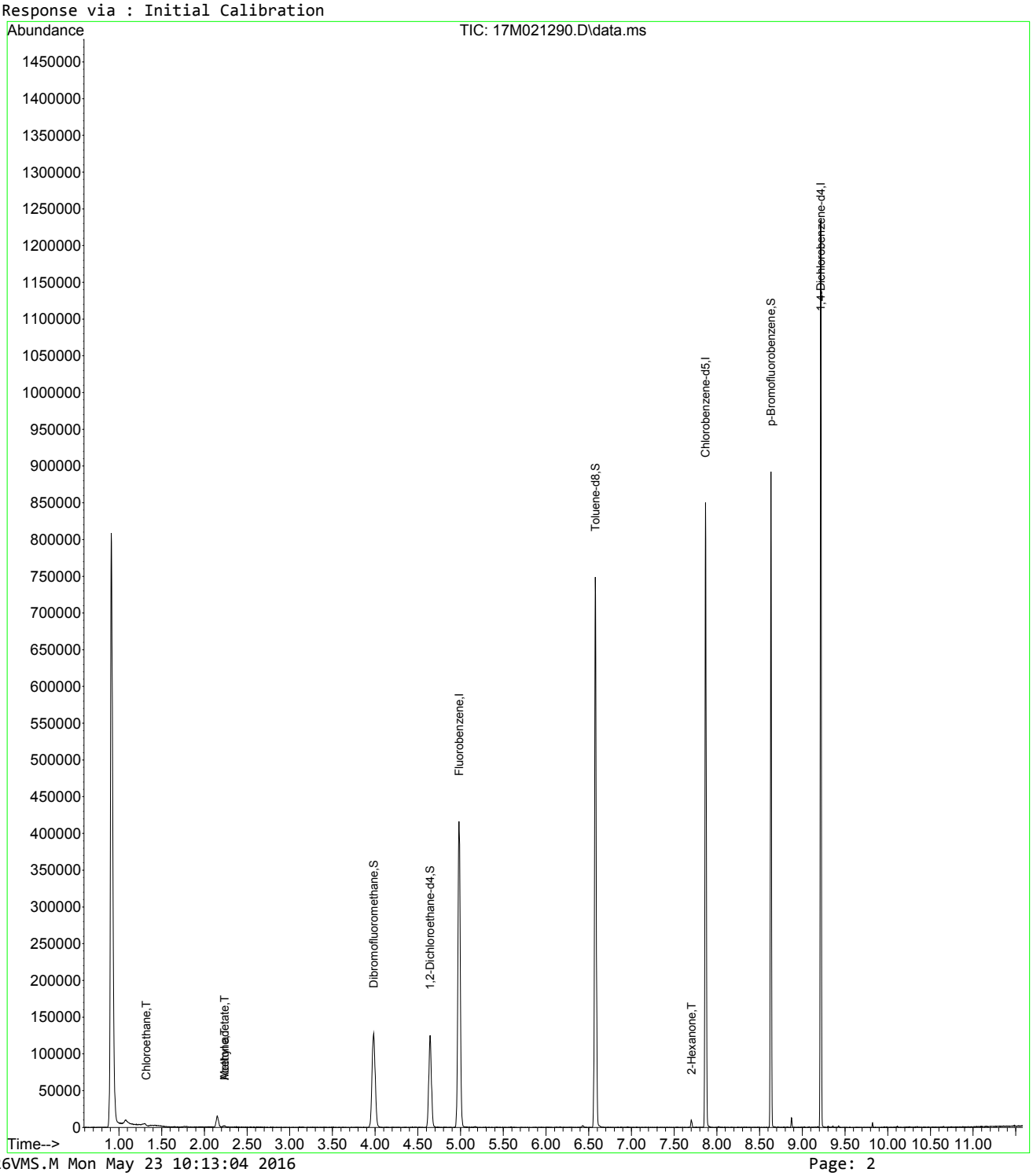
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	391295	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	297451	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	164454	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.983	111	103962	25.0855	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.342%			
34) 1,2-Dichloroethane-d4	4.643	65	99778	26.0381	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.152%			
47) Toluene-d8	6.577	98	407936	25.6805	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.722%			
66) p-Bromofluorobenzene	8.633	95	145080	25.5152	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.061%			
Target Compounds						Qvalue
7) Chloroethane	1.319	64	3168	1.3865	ug/L #	55
16) Acetone	2.234	43	1914	3.0926	ug/L	93
18) Methyl acetate	2.234	43	1914	0.9571	ug/L #	57
54) 2-Hexanone	7.703	43	1072	0.6861	ug/L #	26

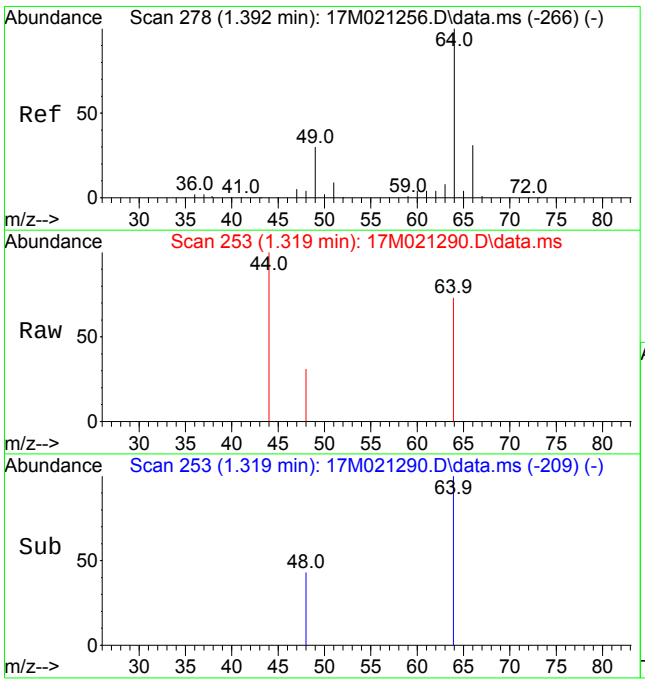
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021290.D Vial: 36
Acq On : 21 May 2016 03:22 Operator: ADC
Sample : L16050763-18 A 826-LOW Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:13:03 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



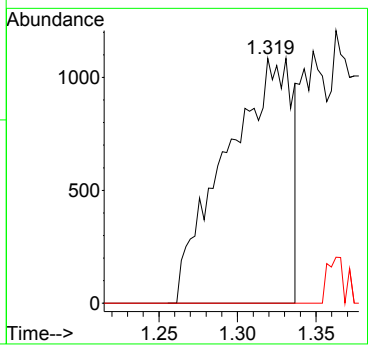
826VMS.M Mon May 23 10:13:04 2016 Page: 2

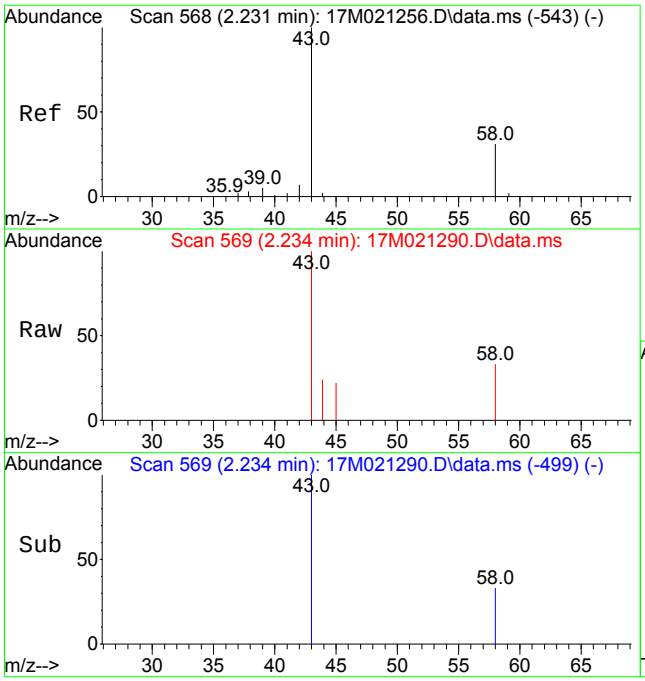


#7
Chloroethane
Concen: 1.3865 ug/L
RT: 1.319 min Scan# 253
Delta R.T. -0.073 min
Lab File: 17M021290.D
Acq: 21 May 2016 03:22

Tgt Ion: 64 Resp: 3168

Ion	Ratio	Lower	Upper
64	100		
49	4.9	17.6	41.0#

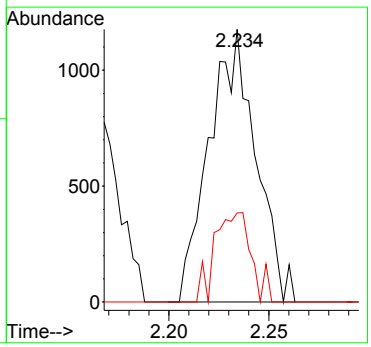


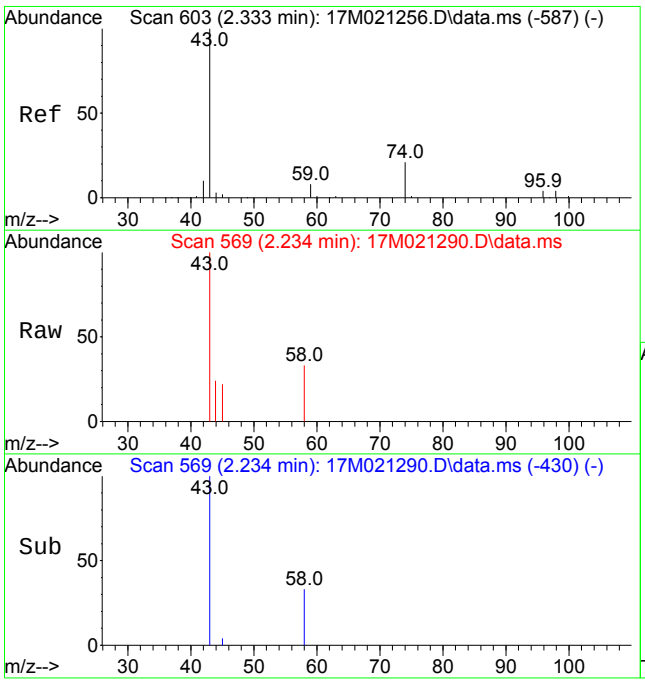


#16
Acetone
Concen: 3.0926 ug/L
RT: 2.234 min Scan# 569
Delta R.T. 0.003 min
Lab File: 17M021290.D
Acq: 21 May 2016 03:22

Tgt Ion: 43 Resp: 1914

Ion	Ratio	Lower	Upper
43	100		
58	25.6	17.6	41.2

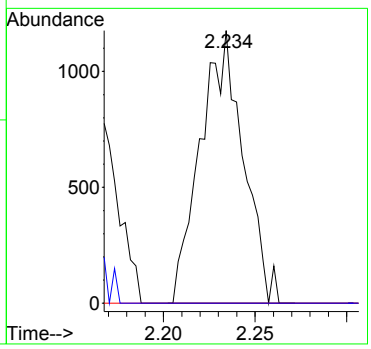


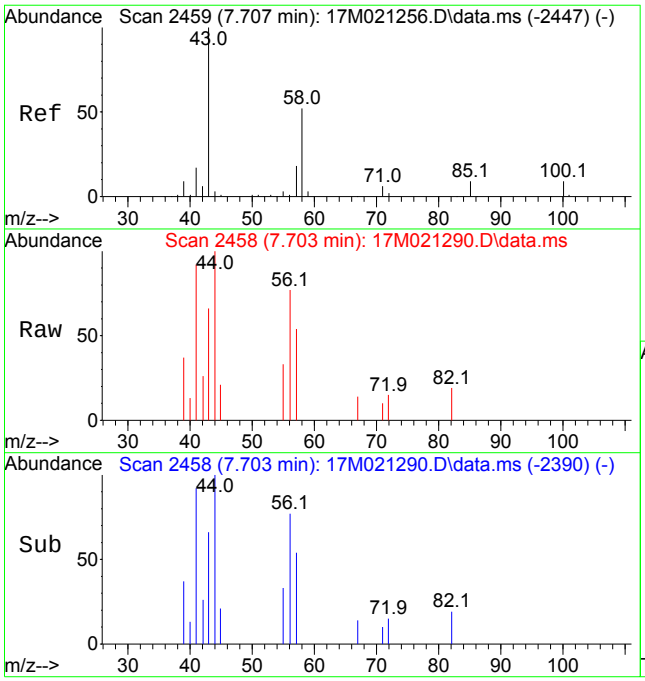


#18
Methyl acetate
Concen: 0.9571 ug/L
RT: 2.234 min Scan# 569
Delta R.T. -0.099 min
Lab File: 17M021290.D
Acq: 21 May 2016 03:22

Tgt Ion: 43 Resp: 1914

Ion	Ratio	Lower	Upper
43	100		
74	0.0	21.3	21.3#
59	0.0	13.6	20.4#

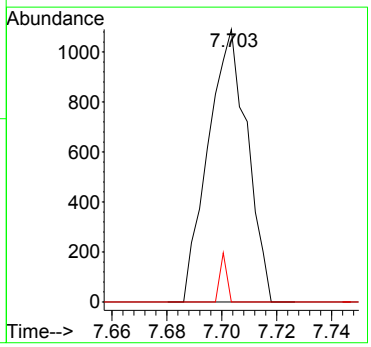




#54
2-Hexanone
Concen: 0.6861 ug/L
RT: 7.703 min Scan# 2458
Delta R.T. -0.004 min
Lab File: 17M021290.D
Acq: 21 May 2016 03:22

Tgt Ion: 43 Resp: 1072

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.4	62.2#



Data File : C:\MSDCHEM\1\DATA\052116\11M12025.D Vial: 11
Acq On : 21 May 2016 16:48 Operator: JDS
Sample : L16050763-19 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 10:58:05 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

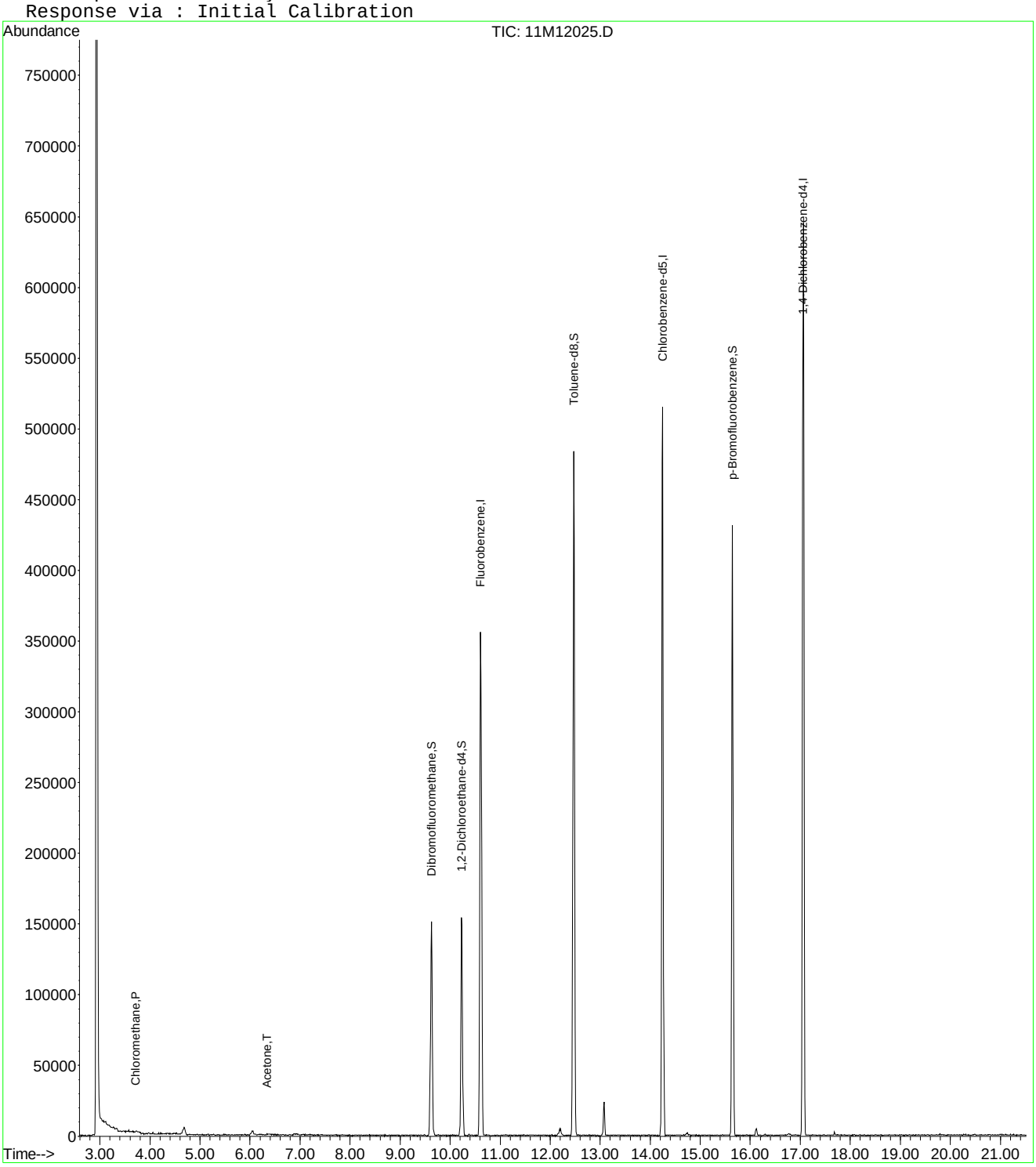
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	383298	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.25	117	354813	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	210320	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.63	111	121362	28.9310	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 115.72%			
43) 1,2-Dichloroethane-d4	10.23	65	144520	30.2147	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 120.84%#			
57) Toluene-d8	12.47	98	393674	25.5357	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.16%			
78) p-Bromofluorobenzene	15.64	95	163425	25.2070	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.84%			
Target Compounds						Qvalue
3) Chloromethane	3.71	50	857	0.1782	ug/L #	41
13) Acetone	6.34	43	752	0.8262	ug/L #	49

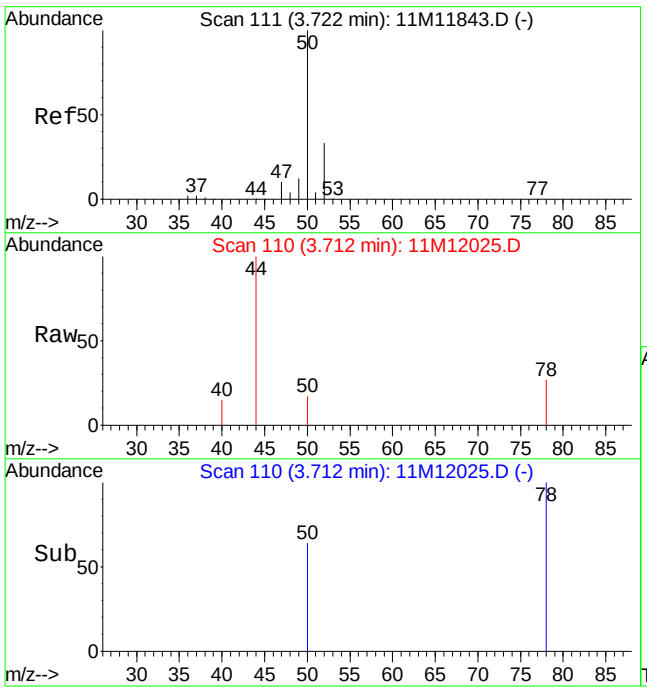
(#) = qualifier out of range (m) = manual integration
11M12025.D 8260WT.M Tue May 24 10:58:06 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052116\11M12025.D Vial: 11
Acq On : 21 May 2016 16:48 Operator: JDS
Sample : L16050763-19 A 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 10:58 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration

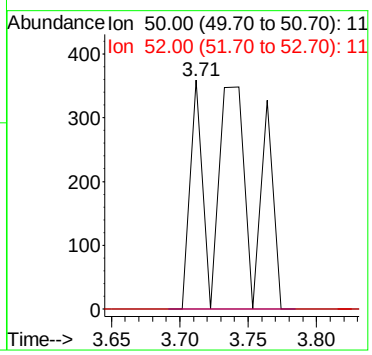


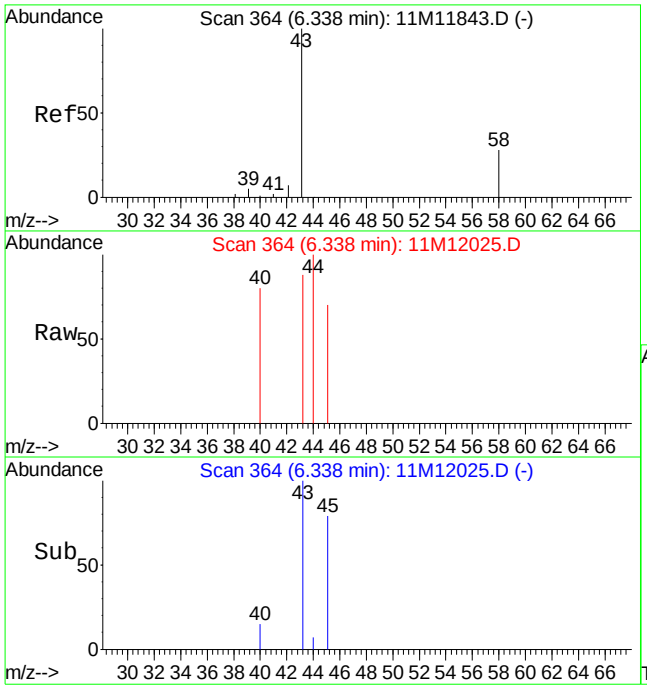


#3
Chloromethane
Concen: 0.18 ug/L
RT: 3.71 min Scan# 110
Delta R.T. -0.01 min
Lab File: 11M12025.D
Acq: 21 May 2016 16:48

Tgt Ion: 50 Resp: 857

Ion	Ratio	Lower	Upper
50	100		
52	0.0	20.0	46.6#

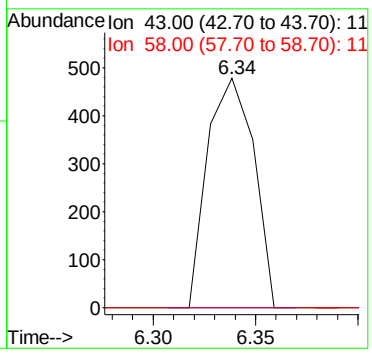




#13
Acetone
Concen: 0.83 ug/L
RT: 6.34 min Scan# 364
Delta R.T. 0.00 min
Lab File: 11M12025.D
Acq: 21 May 2016 16:48

Tgt Ion: 43 Resp: 752

Ion	Ratio	Lower	Upper
43	100		
58	0.0	15.8	36.8#



Data File : C:\MSDCHEM\1\DATA\052116\11M12022.D Vial: 8
Acq On : 21 May 2016 15:12 Operator: JDS
Sample : L16050763-20 A TB 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 10:57:57 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

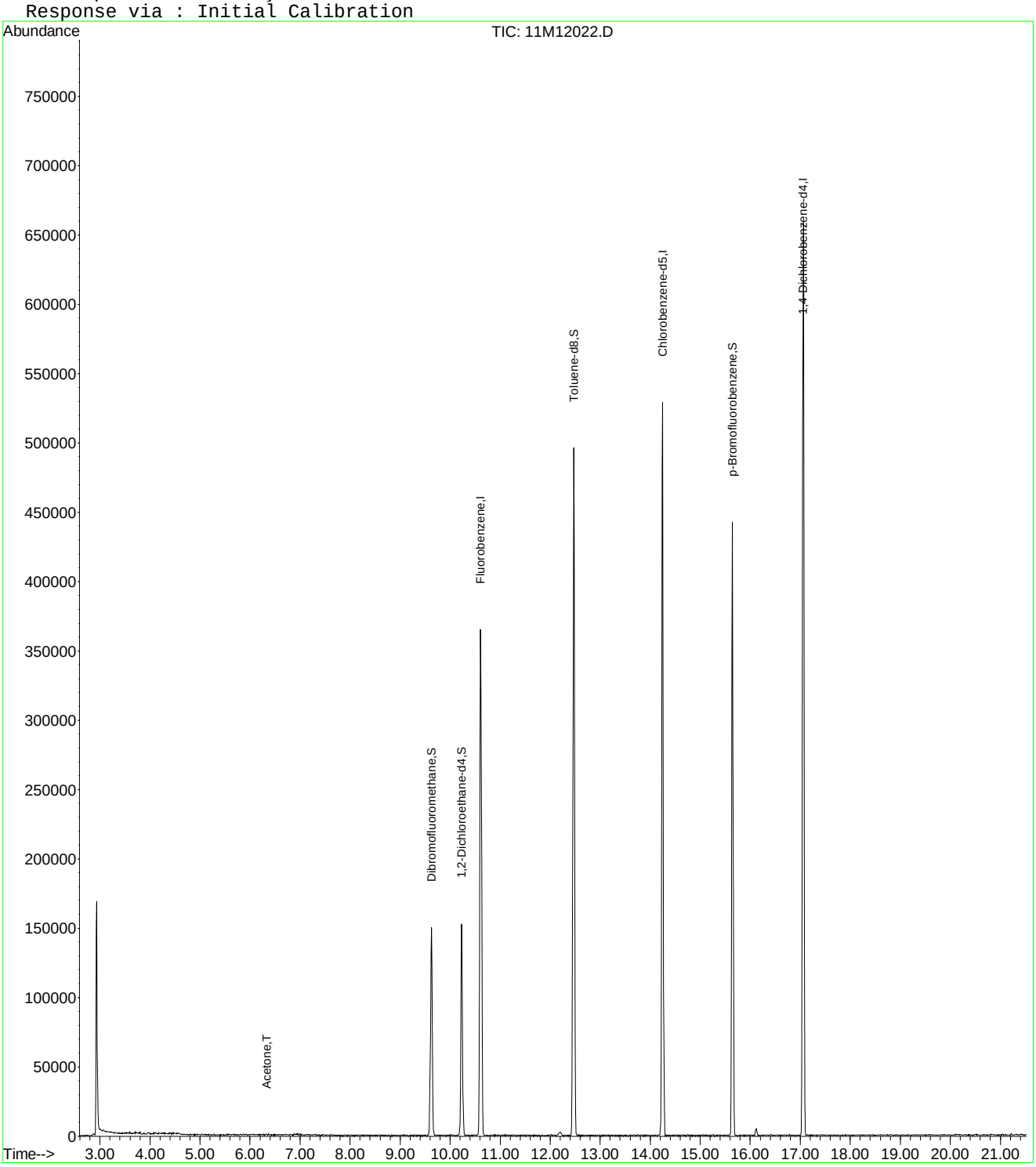
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.61	96	392589	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.25	117	359407	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	210536	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.63	111	120914	28.1420 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 112.56%		
43) 1,2-Dichloroethane-d4	10.23	65	145110	29.6201 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 118.48%		
57) Toluene-d8	12.47	98	402633	25.7830 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.12%		
78) p-Bromofluorobenzene	15.64	95	165377	25.4819 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.92%		
Target Compounds					Qvalue
13) Acetone	6.33	43	198	0.2124 ug/L #	49
18) Methyl acetate	7.01	43	795	Below Cal #	71

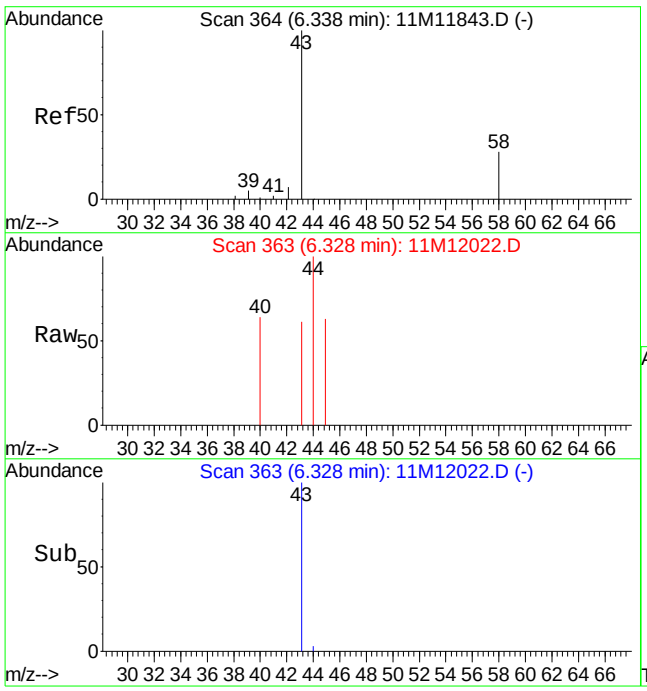
(#) = qualifier out of range (m) = manual integration
11M12022.D 8260WT.M Tue May 24 10:57:58 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052116\11M12022.D Vial: 8
Acq On : 21 May 2016 15:12 Operator: JDS
Sample : L16050763-20 A TB 826-LOW Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 24 10:57 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration

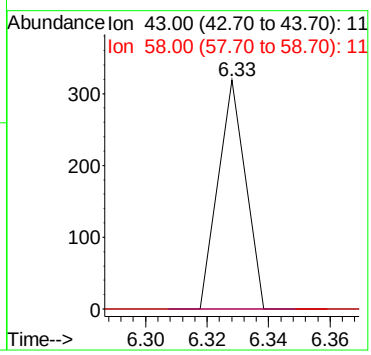


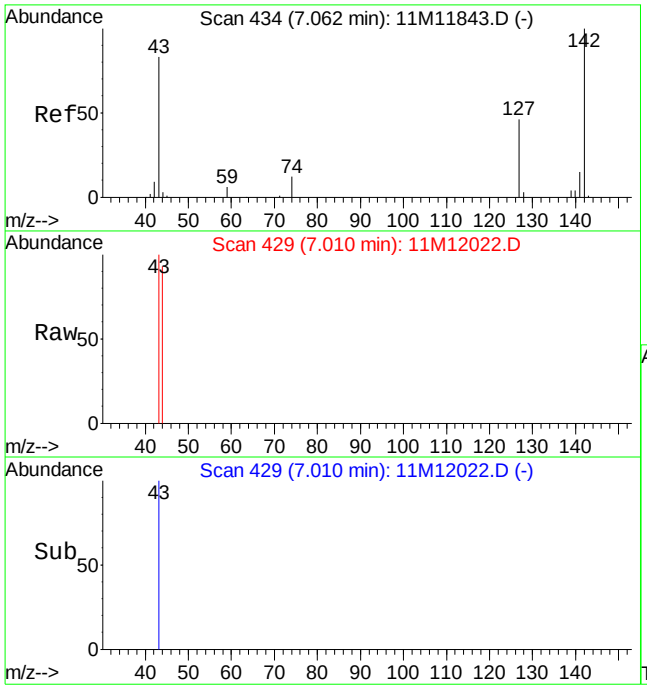


#13
Acetone
Concen: 0.21 ug/L
RT: 6.33 min Scan# 363
Delta R.T. -0.01 min
Lab File: 11M12022.D
Acq: 21 May 2016 15:12

Tgt Ion: 43 Resp: 198

Ion	Ratio	Lower	Upper
43	100		
58	0.0	15.8	36.8#

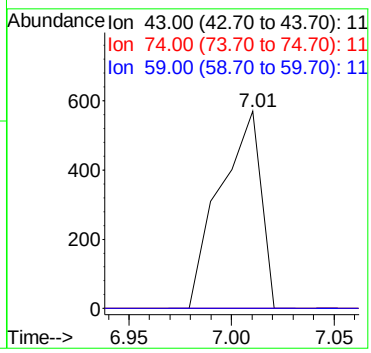




#18
Methyl acetate
Concen: Below Cal
RT: 7.01 min Scan# 429
Delta R.T. -0.05 min
Lab File: 11M12022.D
Acq: 21 May 2016 15:12

Tgt Ion: 43 Resp: 795

Ion	Ratio	Lower	Upper
43	100		
74	0.0	8.2	19.0#
59	0.0	3.9	9.1#



2.1.1.4 Standards Data

Data File : C:\MSDchem\1\data\061415\11M08235.D Vial: 2
Acq On : 14 Jun 2015 9:58 Operator: TMB /DLW
Sample : WG527475-02 5ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:20:26 2015 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.56	96	665958	25.00 ug/L	-0.01
56) Chlorobenzene-d5	14.19	117	486224	25.00 ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.01	152	252862	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.57	111	169215	22.8906 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 91.56%		
43) 1,2-Dichloroethane-d4	10.17	65	154962	19.2999 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 77.20%#		
57) Toluene-d8	12.42	98	584744	28.4742 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 113.88%#		
78) p-Bromofluorobenzene	15.58	95	202664	25.0472 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.20%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.23	85	8067	0.8041 ug/L #	81
3) Chloromethane	3.68	50	5797	0.5011 ug/L	91
4) Vinyl Chloride	3.91	62	15554	1.9132 ug/L	97
5) 1,3-Butadiene	3.96	54	11402	1.8745 ug/L	83
6) Bromomethane	4.80	94	1566	0.4085 ug/L	98
7) Chloroethane	4.96	64	1797	0.3015 ug/L #	43
8) Trichlorofluoromethane	5.43	101	4457	0.3306 ug/L	92
10) Isoprene	5.99	67	2109	0.2044 ug/L #	51
12) 1,1,2-Trichloro-1,2,2-Trif	6.23	101	1597	0.2057 ug/L	98
13) Acetone	6.30	43	3590	1.8309 ug/L #	60
14) 1,1-Dichloroethene	6.50	61	4933	0.3633 ug/L	96
19) Methylene Chloride	7.28	84	2287	0.2902 ug/L	89
20) Carbon Disulfide	7.31	76	24059	1.0619 ug/L	98
23) trans-1,2-Dichloroethene	7.69	96	3973	0.5072 ug/L	81
24) n-Hexane	7.78	57	5925	0.4871 ug/L #	85
32) cis-1,2-Dichloroethene	9.10	96	2970	0.3509 ug/L	71
33) Chloroform	9.30	83	1689	0.1200 ug/L	78
35) Bromochloromethane	9.51	130	597	0.1244 ug/L #	66
36) Tetrahydrofuran	9.56	42	405	0.1826 ug/L #	44
39) Cyclohexane	9.83	56	2167	0.1307 ug/L	90
40) 1,1-Dichloropropene	9.99	75	3207	0.2986 ug/L	86
45) Benzene	10.32	78	3922	0.1286 ug/L	88
46) Trichloroethene	11.03	130	3473	0.3872 ug/L	90
47) Methylcyclohexane	11.10	83	2708	0.2333 ug/L #	77
51) Dibromomethane	11.60	93	782	0.1870 ug/L	62
54) cis-1,3-Dichloropropene	12.11	75	1452	0.1277 ug/L #	41
58) Toluene	12.51	91	4350	0.1662 ug/L	83
60) trans-1,3-Dichloropropene	12.68	75	1450	0.1811 ug/L #	47
64) Tetrachloroethene	13.28	164	1514	0.2507 ug/L	75
66) 1,2-Dibromoethane	13.77	107	783	0.1520 ug/L	82
67) 1-Chlorohexane	13.83	91	2267	0.2766 ug/L	67
68) Chlorobenzene	14.24	112	4044	0.2287 ug/L	88
70) Ethylbenzene	14.25	106	1461	0.1464 ug/L	62
71) m-,p-Xylene	14.34	106	3596	0.3050 ug/L #	47
73) Styrene	14.90	104	2784	0.1479 ug/L	80
75) Isopropylbenzene	15.25	105	4163	0.1408 ug/L #	74
81) n-Propylbenzene	15.73	91	6395	0.2079 ug/L #	73
82) Bromobenzene	15.86	156	1681	0.2112 ug/L	100
83) 1,3,5-Trimethylbenzene	15.90	105	3253	0.1356 ug/L	100
84) 2-Chlorotoluene	16.00	91	3395	0.1597 ug/L	86

(#) = qualifier out of range (m) = manual integration
11M08235.D 8260WTR.M Sun Jun 14 10:20:27 2015 Page 1

Data File : C:\MSDchem\1\data\061415\11M08235.D Vial: 2
Acq On : 14 Jun 2015 9:58 Operator: TMB /DLW
Sample : WG527475-02 5ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:20:26 2015 Quant Results File: 8260WTR.RES

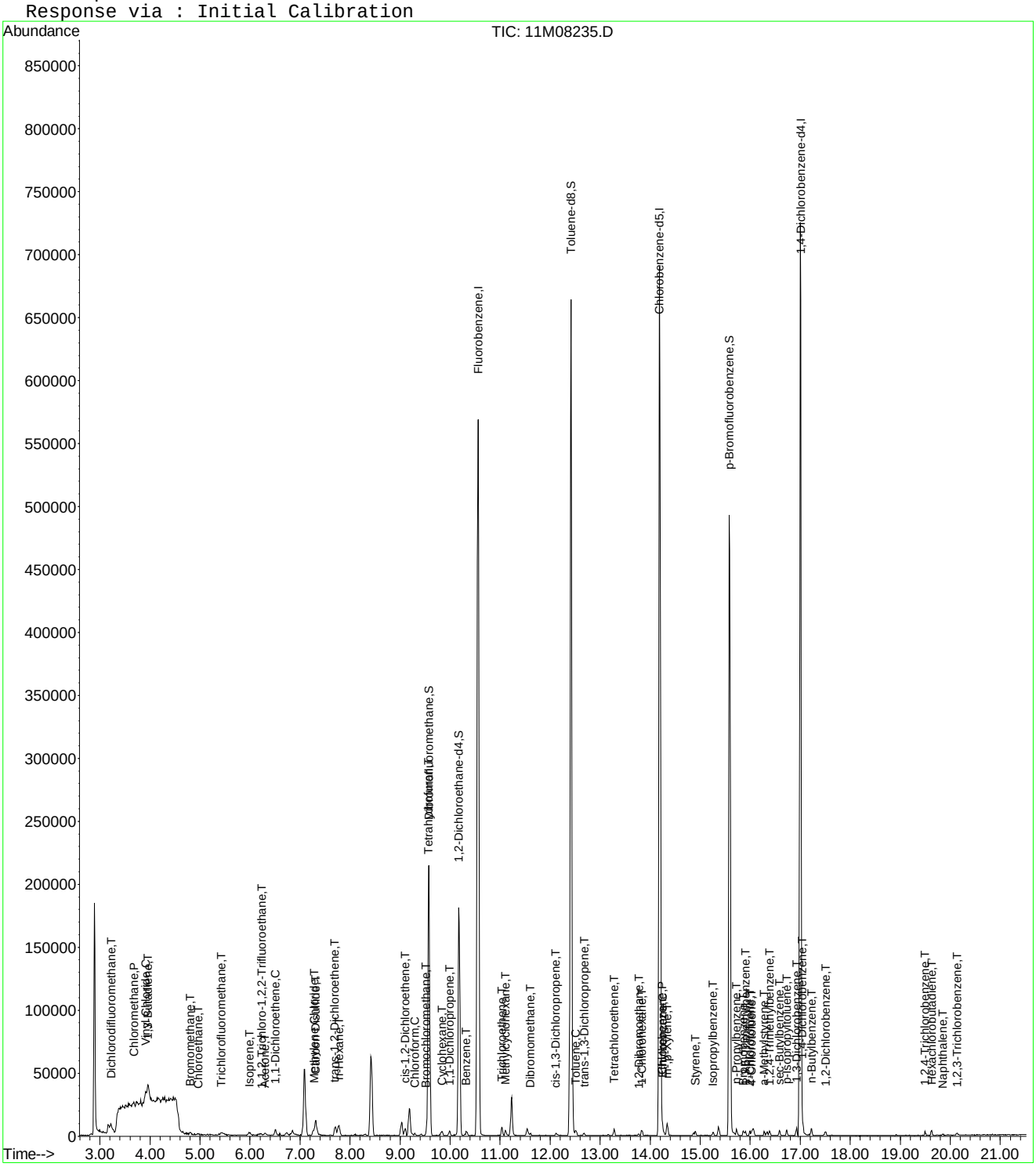
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
85) 4-Chlorotoluene	16.03	91	4746	0.2598 ug/L		84
86) a-Methylstyrene	16.27	118	1776	0.1452 ug/L		76
88) 1,2,4-Trimethylbenzene	16.39	105	3776	0.1571 ug/L		77
89) sec-Butylbenzene	16.58	105	5834	0.2044 ug/L	#	77
90) p-Isopropyltoluene	16.73	119	5149	0.2137 ug/L		87
91) 1,3-Dichlorobenzene	16.93	146	3649	0.2531 ug/L		97
92) 1,4-Dichlorobenzene	17.04	146	5213	0.3507 ug/L	#	7
93) n-Butylbenzene	17.23	91	5778	0.3036 ug/L	#	78
94) 1,2-Dichlorobenzene	17.51	146	2232	0.1581 ug/L		92
96) 1,2,4-Trichlorobenzene	19.49	180	1750	0.2281 ug/L	#	64
97) Hexachlorobutadiene	19.62	225	1771	0.4493 ug/L		86
98) Naphthalene	19.84	128	2058	0.1572 ug/L	#	63
99) 1,2,3-Trichlorobenzene	20.13	180	1072	0.1483 ug/L	#	40

(#) = qualifier out of range (m) = manual integration
11M08235.D 8260WTR.M Sun Jun 14 10:20:27 2015 Page 2

Data File : C:\MSDchem\1\data\061415\11M08235.D Vial: 2
Acq On : 14 Jun 2015 9:58 Operator: TMB /DLW
Sample : WG527475-02 5ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:20 2015 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08235.D Vial: 2
Acq On : 14 Jun 2015 9:58 Operator: TMB /DLW
Sample : WG527475-02 5ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 09:43:53 2015 Quant Results File: A9FOOWT.RES

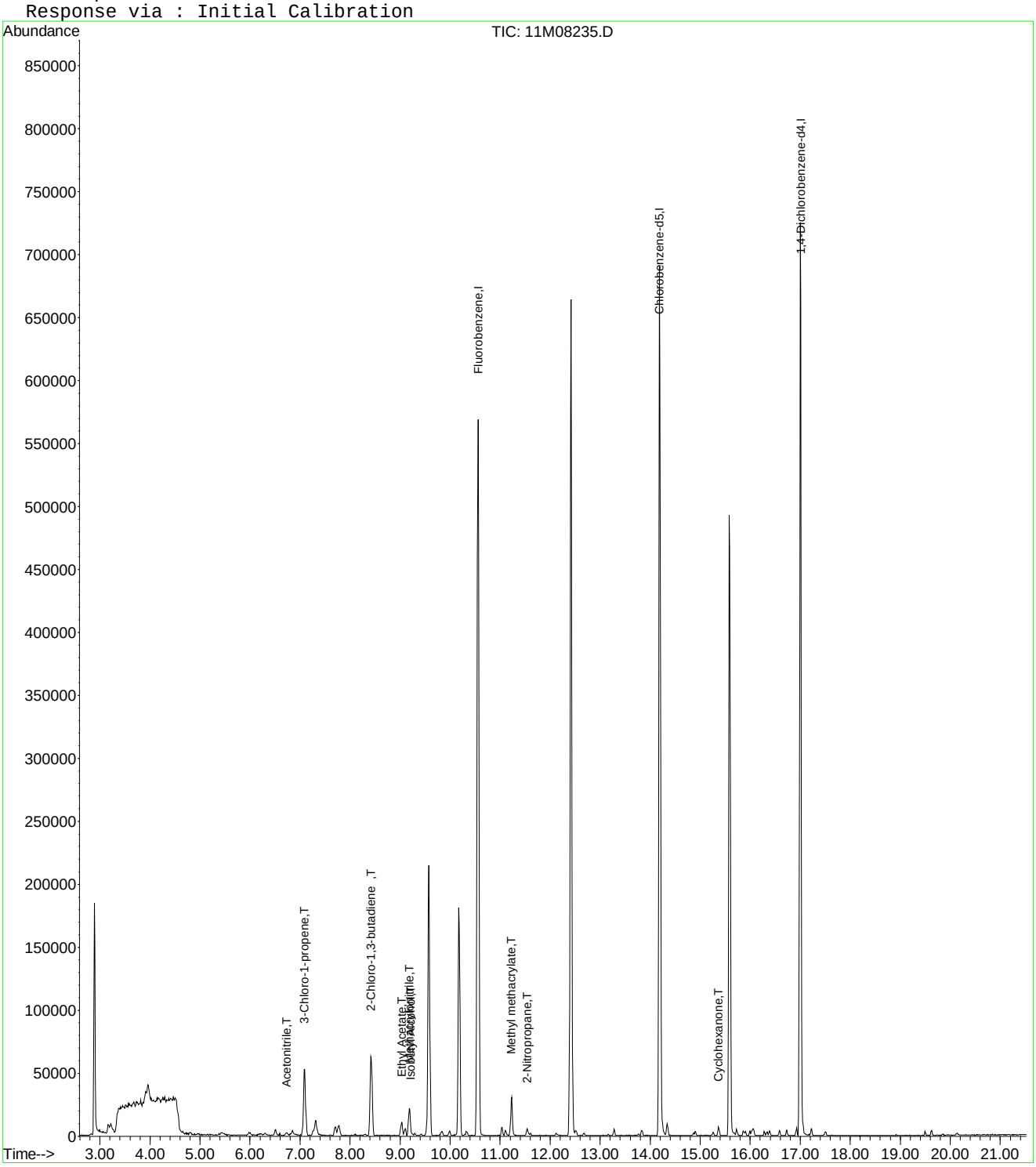
Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	665958	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	486224	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.01	152	252862	25.00	ug/L	-0.02
Target Compounds						Qvalue
2) Acetonitrile	6.73	41	3211	6.0366	ug/L	70
3) 3-Chloro-1-propene	7.08	41	50601	4.3748	ug/L	86
4) 2-Chloro-1,3-butadiene	8.42	53	56035	4.7289	ug/L	97
5) Methacrylonitrile	9.18	41	16495	5.1749	ug/L	91
6) Isobutyl Alcohol	9.21	43	2014	16.4797	ug/L #	1
8) Cyclohexanone	15.36	55	3979	4.5232	ug/L	98
9) 2-Nitropropane	11.54	43	3915	3.2057	ug/L #	72
10) Ethyl Acetate	9.03	43	17657	4.5044	ug/L	95
11) Methyl methacrylate	11.22	41	20122	4.7597	ug/L	95

(#) = qualifier out of range (m) = manual integration
11M08235.D A9FOOWT.M Tue Jun 16 09:43:53 2015 Page 1

Data File : C:\MSDCHEM\1\DATA\061415\11M08235.D Vial: 2
Acq On : 14 Jun 2015 9:58 Operator: TMB /DLW
Sample : WG527475-02 5ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 9:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08235.D Vial: 2
Acq On : 14 Jun 2015 9:58 Operator: TMB /DLW
Sample : WG527475-02 5ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28:04 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	665958	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	486224	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.01	152	252862	25.00	ug/L	-0.02

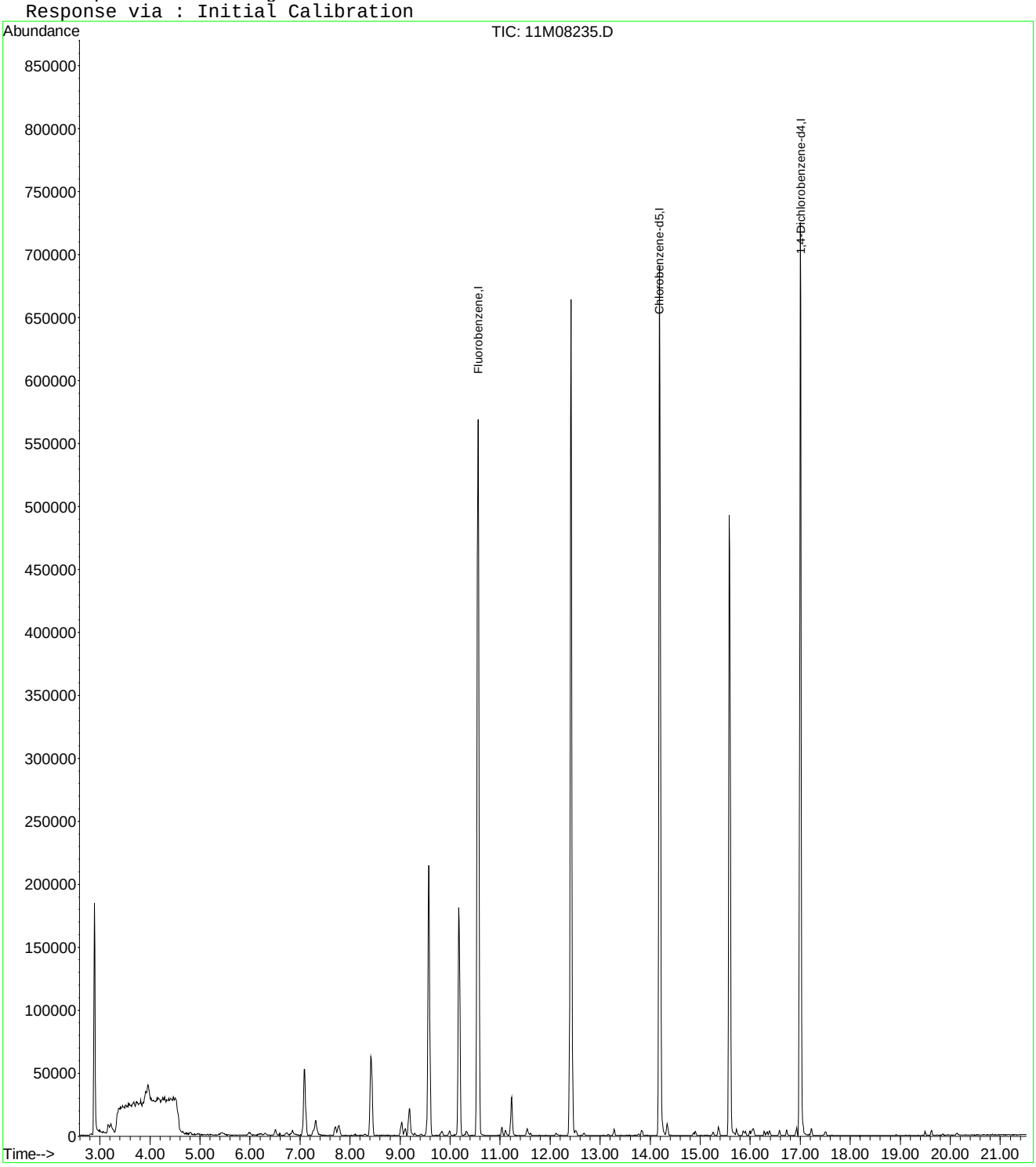
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
11M08235.D A9FOOWT.M Thu Aug 20 11:28:04 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08235.D Vial: 2
Acq On : 14 Jun 2015 9:58 Operator: TMB /DLW
Sample : WG527475-02 5ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08235.D Vial: 2
Acq On : 14 Jun 2015 9:58 Operator: TMB /DLW
Sample : WG527475-02 5ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43:46 2015 Quant Results File: A9FOOWT.RES

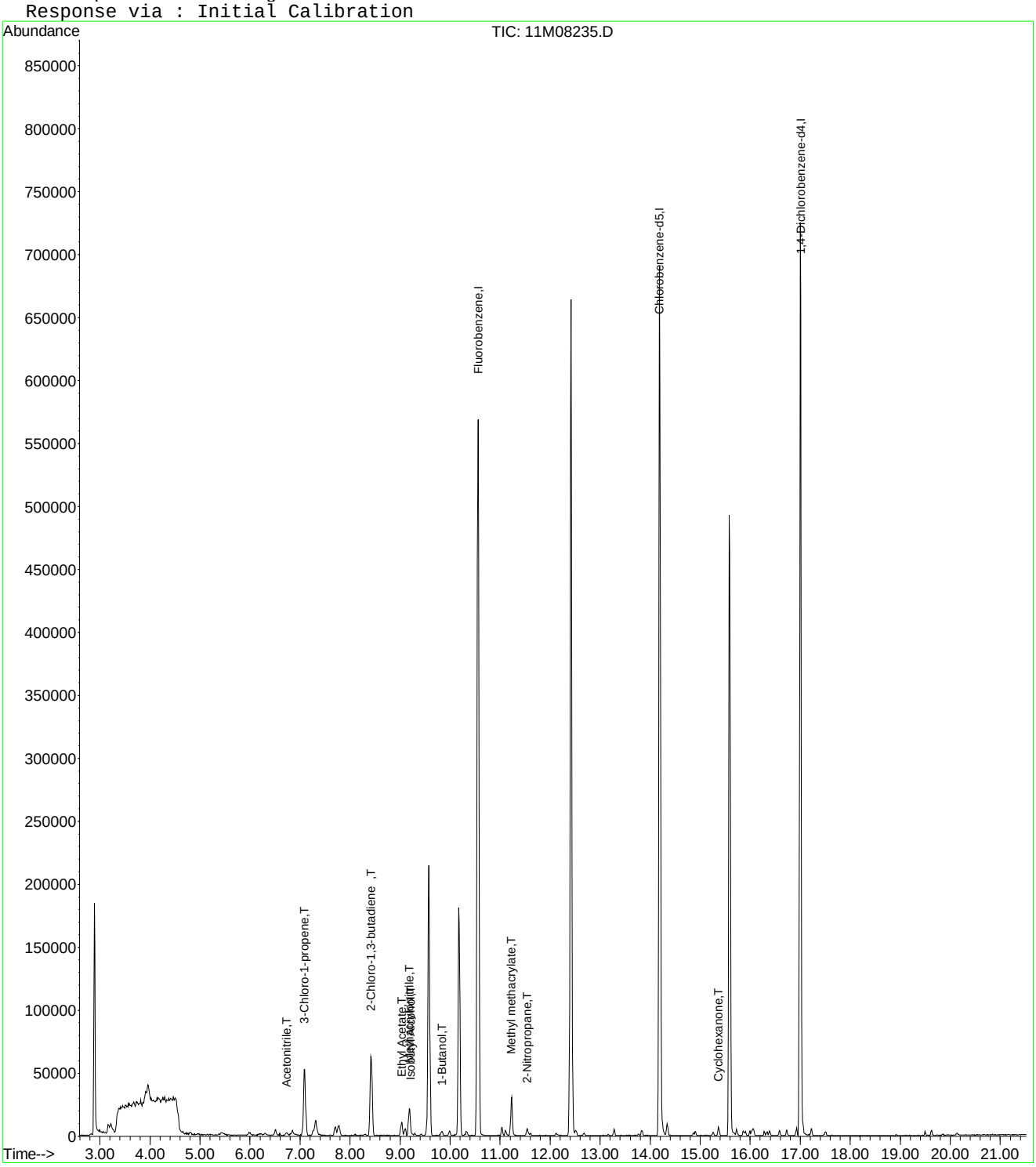
Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	665958	25.00	ug/L		0.00
12) Chlorobenzene-d5	14.19	117	486224	25.00	ug/L		0.00
13) 1,4-Dichlorobenzene-d4	17.01	152	252862	25.00	ug/L		0.01
Target Compounds							Qvalue
2) Acetonitrile	6.73	41	3211	6.2865	ug/L		70
3) 3-Chloro-1-propene	7.08	41	50601	5.0485	ug/L		86
4) 2-Chloro-1,3-butadiene	8.42	53	56035	4.6571	ug/L		97
5) Methacrylonitrile	9.18	41	16495	5.3246	ug/L		91
6) Isobutyl Alcohol	9.21	43	2014	12.6338	ug/L	#	1
7) 1-Butanol	9.83	56	2167	25.6978	ug/L	#	47
8) Cyclohexanone	15.36	55	3979	5.1947	ug/L		98
9) 2-Nitropropane	11.54	43	3915	35.7530	ug/L	#	72
10) Ethyl Acetate	9.03	43	17657	4.8057	ug/L		95
11) Methyl methacrylate	11.22	41	20122	4.7099	ug/L		95

(#) = qualifier out of range (m) = manual integration
11M08235.D A9FOOWT.M Thu Aug 20 11:43:47 2015 Page 1

Data File : C:\MSDCHEM\1\DATA\061415\11M08235.D Vial: 2
Acq On : 14 Jun 2015 9:58 Operator: TMB /DLW
Sample : WG527475-02 5ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061415\11M08235.D Vial: 2
Acq On : 14 Jun 2015 9:58 Operator: TMB /DLW
Sample : WG527475-02 5ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	5.0000	6.2866	-25.7	100	0.01
3	T	3-Chloro-1-propene	5.0000	5.0485	-1.0	100	-0.01
4	T	2-Chloro-1,3-butadiene	5.0000	4.6571	6.9	100	0.00
5	T	Methacrylonitrile	5.0000	5.3246	-6.5	100	0.00
6	T	Isobutyl Alcohol	-1.0000	12.6338	0.0	100	0.02
7	T	1-Butanol	-1.0000	25.6978	0.0	0	-0.24
8	T	Cyclohexanone	-1.0000	5.1947	0.0	100	0.00
9	T	2-Nitropropane	-1.0000	35.7530	0.0	0	0.00
10	T	Ethyl Acetate	5.0000	4.8057	3.9	100	0.00
11	T	Methyl methacrylate	5.0000	4.7099	5.8	100	0.00
12	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
13	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M08235.D A9FOOWT.M Thu Aug 20 11:44:19 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\061415\11M08236.D Vial: 3
Acq On : 14 Jun 2015 10:30 Operator: TMB /DLW
Sample : WG527475-03 20ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:52:27 2015 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

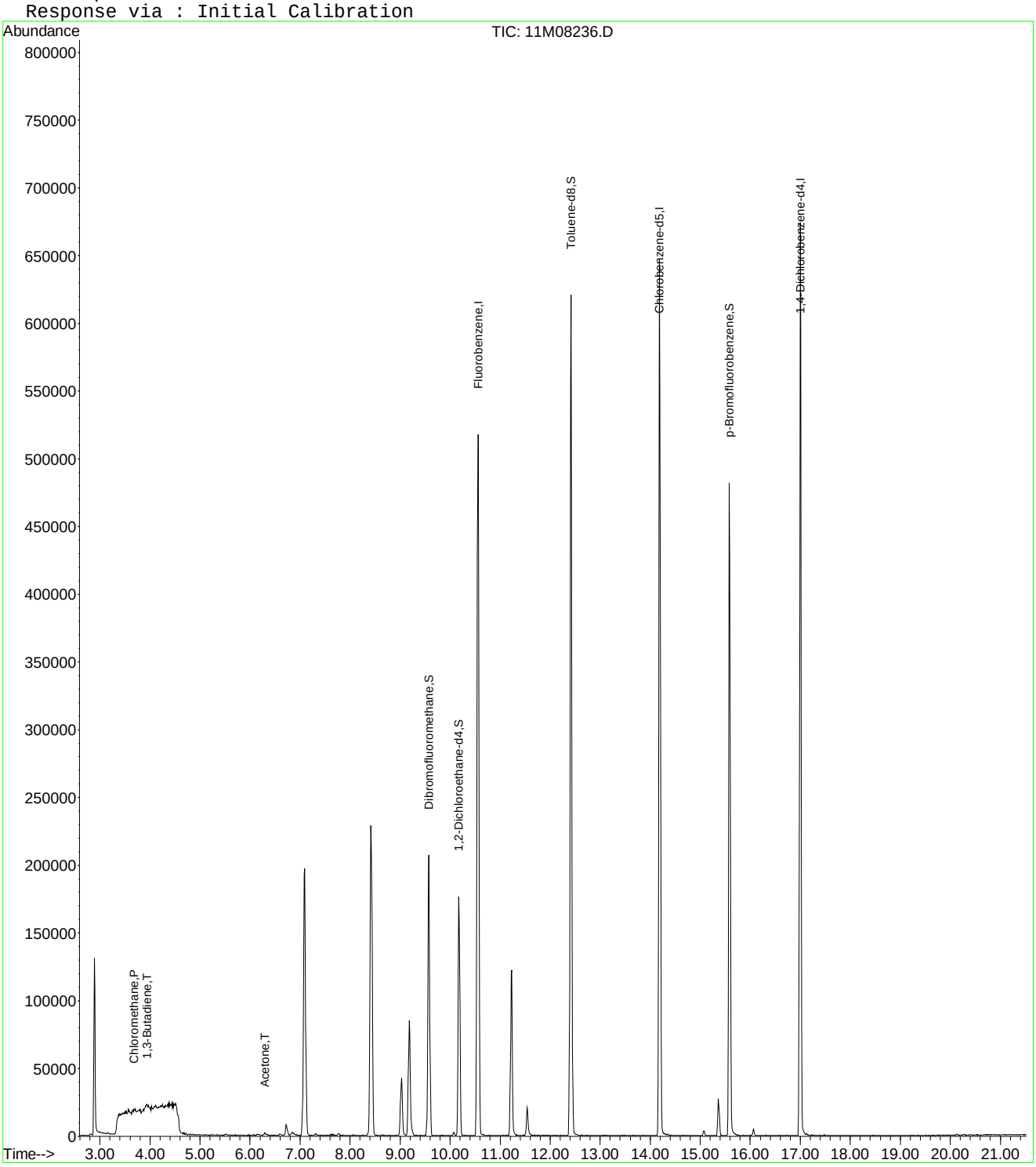
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.56	96	610715	25.00 ug/L	-0.01
56) Chlorobenzene-d5	14.19	117	451165	25.00 ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.00	152	232233	25.00 ug/L	-0.01
System Monitoring Compounds					
37) Dibromofluoromethane	9.57	111	159209	23.4852 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 93.96%		
43) 1,2-Dichloroethane-d4	10.17	65	149549	20.3105 ug/L	-0.01
Spiked Amount 25.000	Range 80 - 120		Recovery = 81.24%		
57) Toluene-d8	12.42	98	551790	28.9575 ug/L	-0.01
Spiked Amount 25.000	Range 88 - 110		Recovery = 115.84%#		
78) p-Bromofluorobenzene	15.58	95	193663	26.0609 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.24%		
Target Compounds					Qvalue
3) Chloromethane	3.68	50	2560	0.2413 ug/L	85
5) 1,3-Butadiene	3.94	54	1485	0.2662 ug/L #	60
13) Acetone	6.30	43	3499	1.9459 ug/L #	49

(#) = qualifier out of range (m) = manual integration
11M08236.D 8260WTR.M Sun Jun 14 10:52:28 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\061415\11M08236.D Vial: 3
Acq On : 14 Jun 2015 10:30 Operator: TMB /DLW
Sample : WG527475-03 20ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 10:52 2015 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08236.D Vial: 3
Acq On : 14 Jun 2015 10:30 Operator: TMB /DLW
Sample : WG527475-03 20ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 09:43:55 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

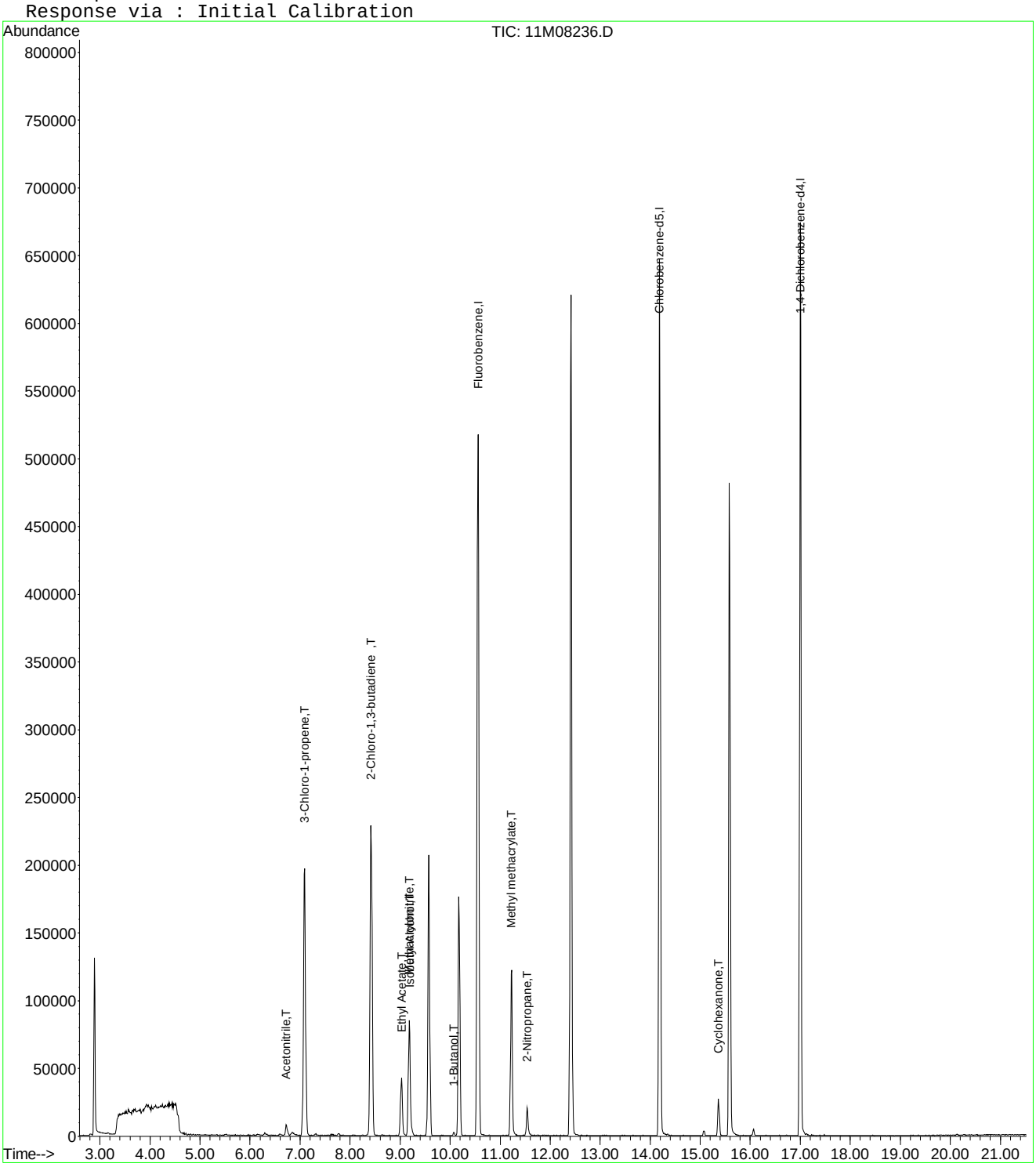
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	610715	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	451165	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	232233	25.00	ug/L	-0.03
Target Compounds						Qvalue
2) Acetonitrile	6.72	41	10965	22.4787	ug/L	99
3) 3-Chloro-1-propene	7.09	41	181745	17.1344	ug/L	86
4) 2-Chloro-1,3-butadiene	8.42	53	204133	18.7856	ug/L	96
5) Methacrylonitrile	9.18	41	56411	19.2984	ug/L	84
6) Isobutyl Alcohol	9.19	43	6275	55.9901	ug/L	85
7) 1-Butanol	10.07	56	1474	31.3751	ug/L	93
8) Cyclohexanone	15.36	55	15226	18.8740	ug/L	98
9) 2-Nitropropane	11.54	43	14015	12.5138	ug/L #	72
10) Ethyl Acetate	9.03	43	70834	19.7046	ug/L	96
11) Methyl methacrylate	11.22	41	78843	20.3367	ug/L	93

(#) = qualifier out of range (m) = manual integration
11M08236.D A9FOOWT.M Tue Jun 16 09:43:55 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08236.D Vial: 3
Acq On : 14 Jun 2015 10:30 Operator: TMB /DLW
Sample : WG527475-03 20ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 9:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08236.D Vial: 3
Acq On : 14 Jun 2015 10:30 Operator: TMB /DLW
Sample : WG527475-03 20ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28:06 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	610715	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	451165	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	232233	25.00	ug/L	-0.03

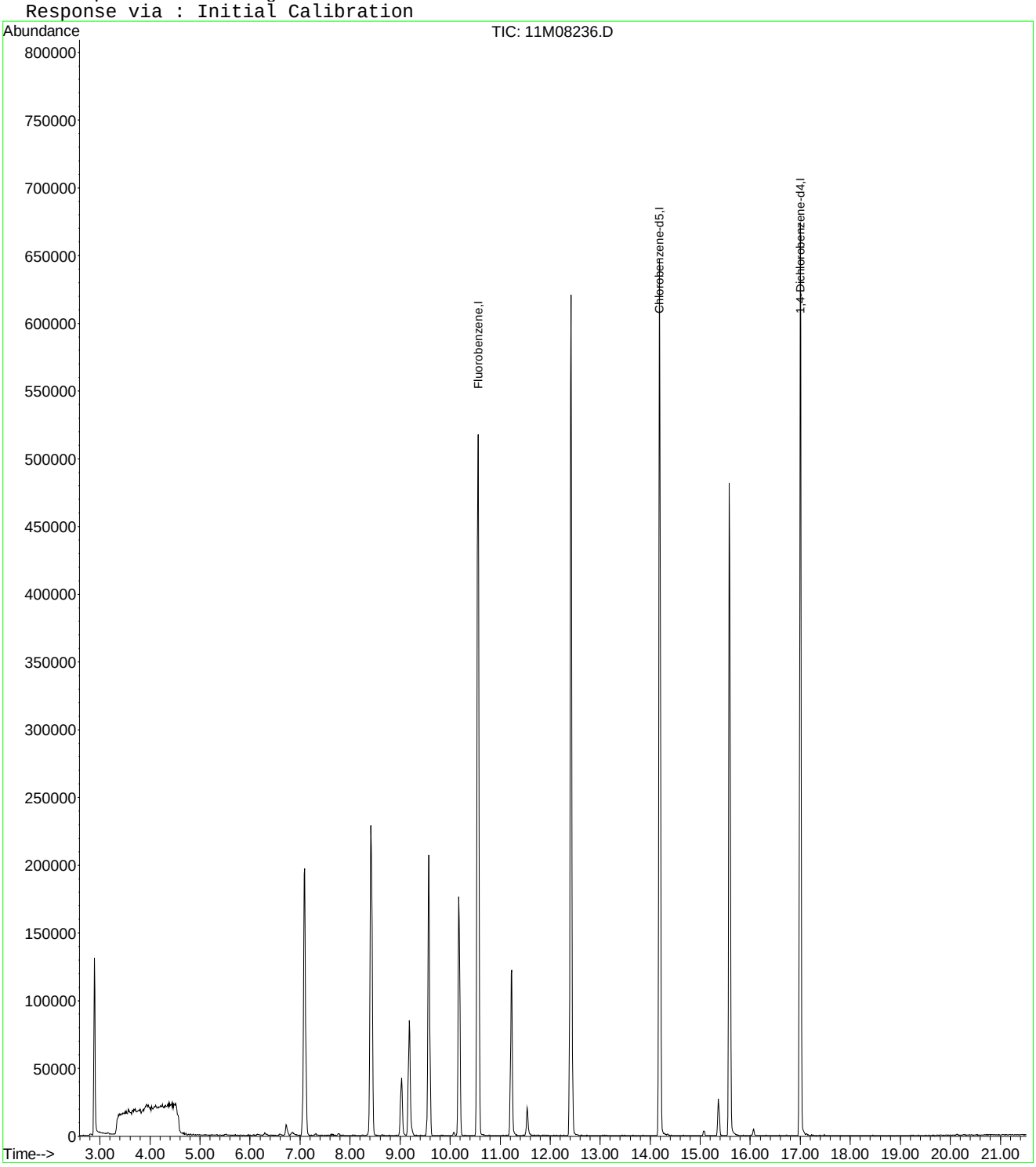
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
11M08236.D A9FOOWT.M Thu Aug 20 11:28:07 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08236.D Vial: 3
Acq On : 14 Jun 2015 10:30 Operator: TMB /DLW
Sample : WG527475-03 20ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08236.D Vial: 3
Acq On : 14 Jun 2015 10:30 Operator: TMB /DLW
Sample : WG527475-03 20ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43:48 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

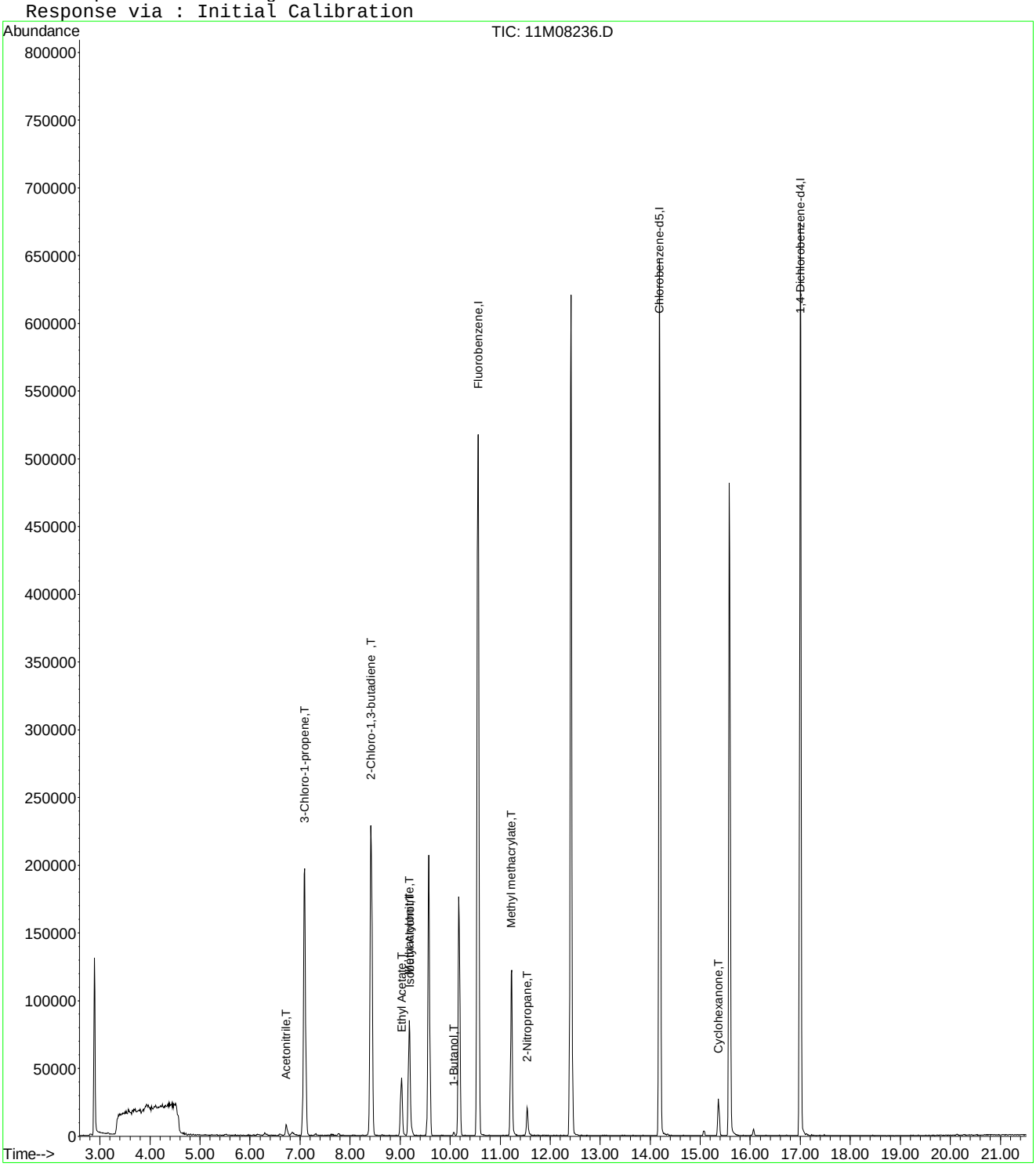
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	610715	25.00	ug/L	0.00
12) Chlorobenzene-d5	14.19	117	451165	25.00	ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.00	152	232233	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.72	41	10965	23.4093	ug/L	99
3) 3-Chloro-1-propene	7.09	41	181745	19.7730	ug/L	86
4) 2-Chloro-1,3-butadiene	8.42	53	204133	18.5003	ug/L	96
5) Methacrylonitrile	9.18	41	56411	19.8567	ug/L	84
6) Isobutyl Alcohol	9.19	43	6275	42.9238	ug/L	85
7) 1-Butanol	10.07	56	1474	19.0608	ug/L	93
8) Cyclohexanone	15.36	55	15226	21.6762	ug/L	98
9) 2-Nitropropane	11.54	43	14015	45.0214	ug/L #	72
10) Ethyl Acetate	9.03	43	70834	21.0227	ug/L	96
11) Methyl methacrylate	11.22	41	78843	20.1239	ug/L	93

(#) = qualifier out of range (m) = manual integration
11M08236.D A9FOOWT.M Thu Aug 20 11:43:48 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08236.D Vial: 3
Acq On : 14 Jun 2015 10:30 Operator: TMB /DLW
Sample : WG527475-03 20ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061415\11M08236.D Vial: 3
Acq On : 14 Jun 2015 10:30 Operator: TMB /DLW
Sample : WG527475-03 20ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	20.0000	23.4093	-17.0	100	0.00
3	T	3-Chloro-1-propene	20.0000	19.7730	1.1	100	0.00
4	T	2-Chloro-1,3-butadiene	20.0000	18.5003	7.5	100	0.00
5	T	Methacrylonitrile	20.0000	19.8567	0.7	100	0.00
6	T	Isobutyl Alcohol	40.0000	42.9238	-7.3	100	0.00
7	T	1-Butanol	-1.0000	19.0608	0.0	100	0.00
8	T	Cyclohexanone	20.0000	21.6762	-8.4	100	0.00
9	T	2-Nitropropane	-1.0000	45.0214	0.0	0	0.00
10	T	Ethyl Acetate	20.0000	21.0227	-5.1	100	0.00
11	T	Methyl methacrylate	20.0000	20.1239	-0.6	100	0.00
12	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
13	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M08236.D A9FOOWT.M Thu Aug 20 11:44:30 2015 Page 1

Data File : C:\MSDchem\1\data\061415\11M08237.D Vial: 4
Acq On : 14 Jun 2015 11:02 Operator: TMB /DLW
Sample : WG527475-04 50ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 11:24:26 2015 Quant Results File: 8260WTR.RES

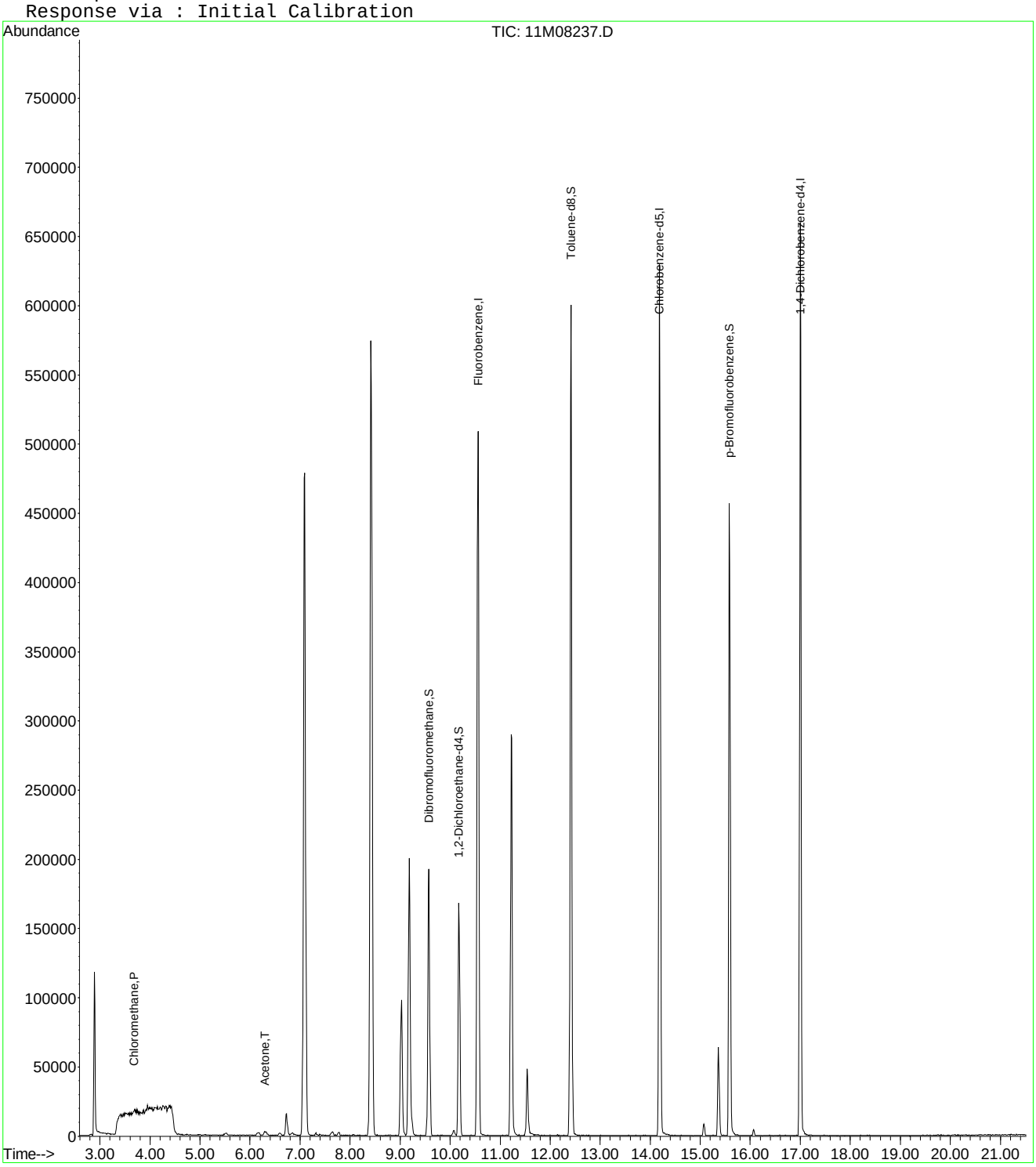
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	593911	25.00	ug/L	-0.01
56) Chlorobenzene-d5	14.19	117	439398	25.00	ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.00	152	227606	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.57	111	153812	23.3311	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 93.32%			
43) 1,2-Dichloroethane-d4	10.17	65	141347	19.7397	ug/L	-0.01
Spiked Amount 25.000	Range 80 - 120		Recovery = 78.96%#			
57) Toluene-d8	12.42	98	530398	28.5803	ug/L	-0.01
Spiked Amount 25.000	Range 88 - 110		Recovery = 114.32%#			
78) p-Bromofluorobenzene	15.58	95	184116	25.2799	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.12%			
Target Compounds						Qvalue
3) Chloromethane	3.68	50	1722	0.1669	ug/L #	66
13) Acetone	6.30	43	6340	3.6256	ug/L	95

(#) = qualifier out of range (m) = manual integration
11M08237.D 8260WTR.M Sun Jun 14 11:24:27 2015 Page 1

Data File : C:\MSDchem\1\data\061415\11M08237.D Vial: 4
Acq On : 14 Jun 2015 11:02 Operator: TMB /DLW
Sample : WG527475-04 50ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 11:24 2015 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08237.D Vial: 4
Acq On : 14 Jun 2015 11:02 Operator: TMB /DLW
Sample : WG527475-04 50ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 09:43:56 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

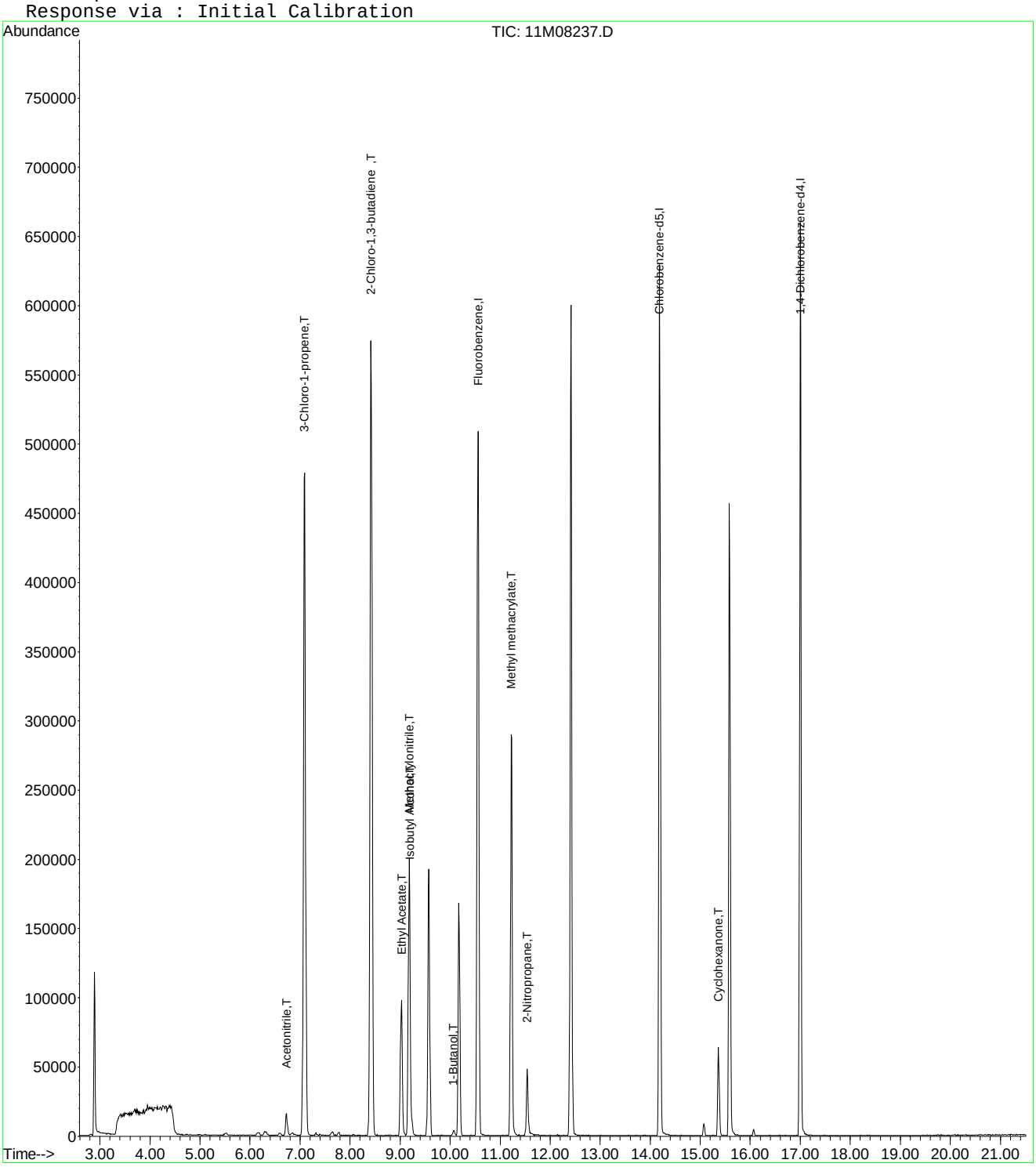
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	593911	25.00	ug/L		-0.03
12) Chlorobenzene-d5	14.19	117	439398	25.00	ug/L		-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	227606	25.00	ug/L		-0.03
Target Compounds							Qvalue
2) Acetonitrile	6.73	41	21370	45.0489	ug/L		93
3) 3-Chloro-1-propene	7.08	41	441208	42.7727	ug/L		85
4) 2-Chloro-1,3-butadiene	8.42	53	506427	47.9232	ug/L		96
5) Methacrylonitrile	9.18	41	133439	46.9416	ug/L		86
6) Isobutyl Alcohol	9.19	43	13722	125.9019	ug/L		88
7) 1-Butanol	10.06	56	3449	75.4914	ug/L	#	8
8) Cyclohexanone	15.36	55	33575	42.7968	ug/L		96
9) 2-Nitropropane	11.54	43	32837	30.1492	ug/L	#	75
10) Ethyl Acetate	9.03	43	158260	45.2705	ug/L		95
11) Methyl methacrylate	11.22	41	179947	47.7287	ug/L		89

(#) = qualifier out of range (m) = manual integration
11M08237.D A9FOOWT.M Tue Jun 16 09:43:57 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08237.D Vial: 4
Acq On : 14 Jun 2015 11:02 Operator: TMB /DLW
Sample : WG527475-04 50ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 9:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08237.D Vial: 4
Acq On : 14 Jun 2015 11:02 Operator: TMB /DLW
Sample : WG527475-04 50ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28:07 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	593911	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	439398	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	227606	25.00	ug/L	-0.03

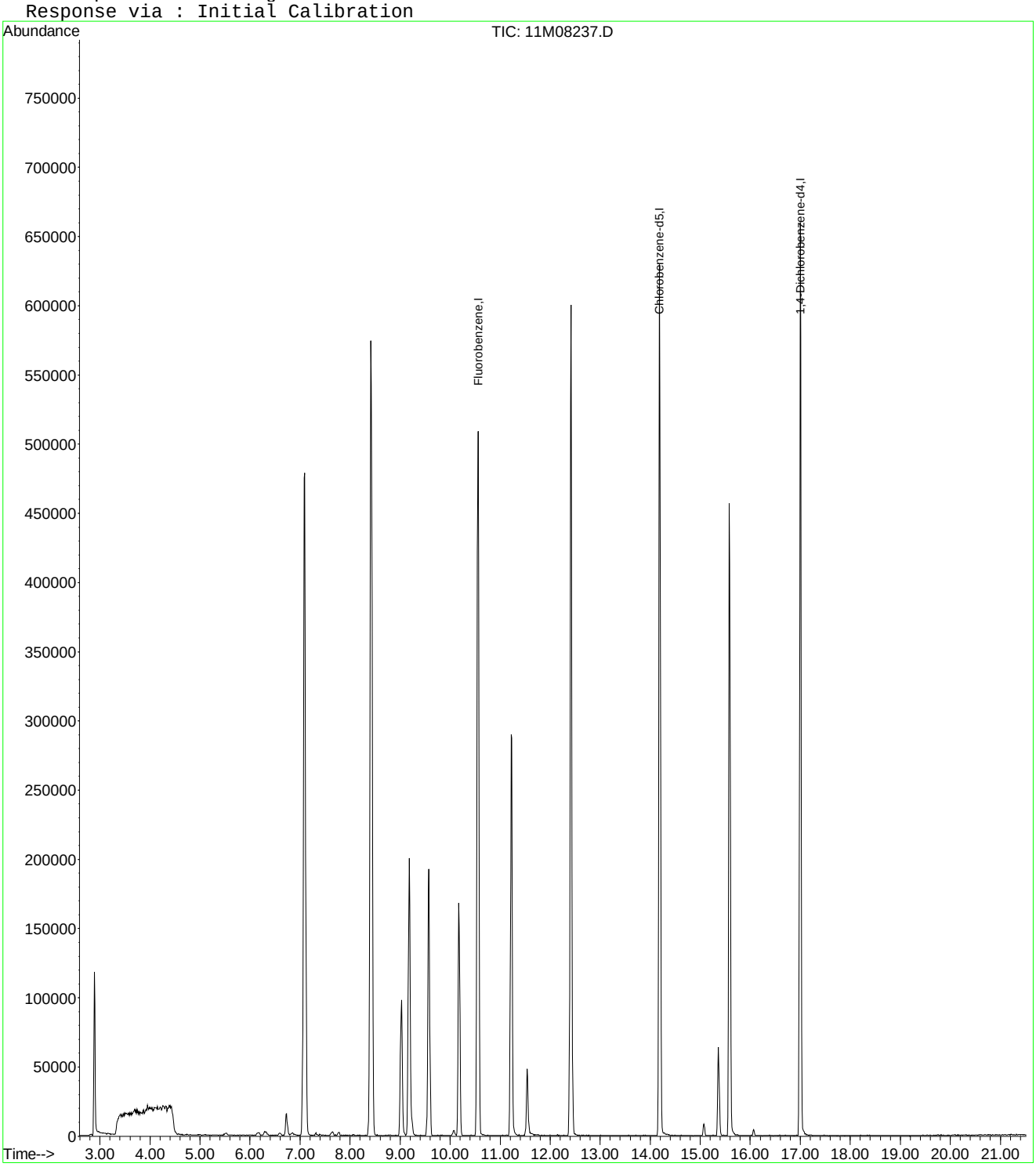
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
11M08237.D A9FOOWT.M Thu Aug 20 11:28:08 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08237.D Vial: 4
Acq On : 14 Jun 2015 11:02 Operator: TMB /DLW
Sample : WG527475-04 50ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08237.D Vial: 4
Acq On : 14 Jun 2015 11:02 Operator: TMB /DLW
Sample : WG527475-04 50ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43:49 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

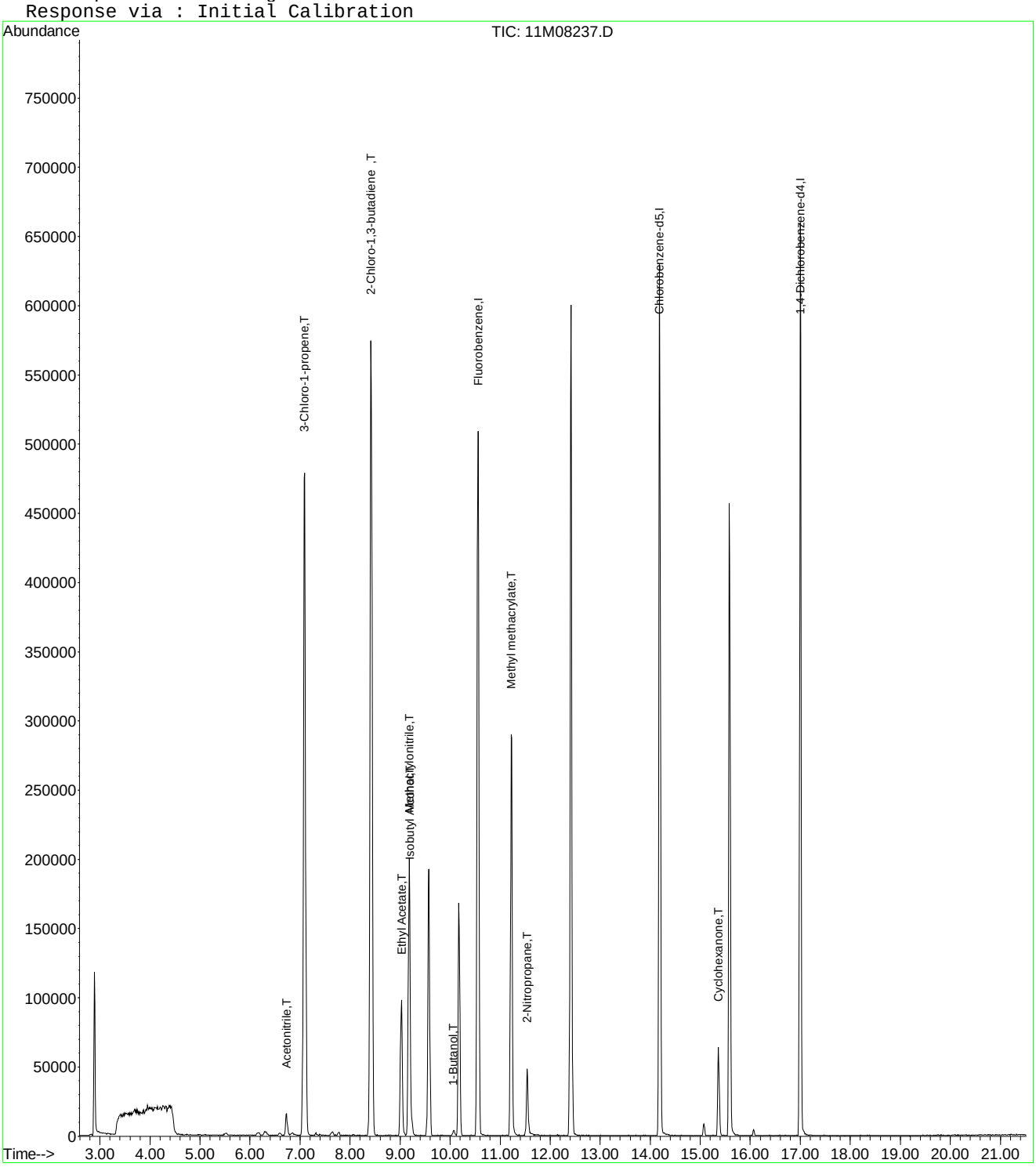
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	593911	25.00	ug/L	0.00
12) Chlorobenzene-d5	14.19	117	439398	25.00	ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.00	152	227606	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.73	41	21370	46.9139	ug/L	93
3) 3-Chloro-1-propene	7.08	41	441208	49.3594	ug/L	85
4) 2-Chloro-1,3-butadiene	8.42	53	506427	47.1955	ug/L	96
5) Methacrylonitrile	9.18	41	133439	48.2996	ug/L	86
6) Isobutyl Alcohol	9.19	43	13722	96.5203	ug/L	88
7) 1-Butanol	10.06	56	3449	45.8622	ug/L #	8
8) Cyclohexanone	15.36	55	33575	49.1507	ug/L	96
9) 2-Nitropropane	11.54	43	32837	62.5818	ug/L #	75
10) Ethyl Acetate	9.03	43	158260	48.2986	ug/L	95
11) Methyl methacrylate	11.22	41	179947	47.2293	ug/L	89

(#) = qualifier out of range (m) = manual integration
11M08237.D A9FOOWT.M Thu Aug 20 11:43:49 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08237.D Vial: 4
Acq On : 14 Jun 2015 11:02 Operator: TMB /DLW
Sample : WG527475-04 50ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061415\11M08237.D Vial: 4
Acq On : 14 Jun 2015 11:02 Operator: TMB /DLW
Sample : WG527475-04 50ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	50.0000	46.9140	6.2	100	0.01
3	T	3-Chloro-1-propene	50.0000	49.3594	1.3	100	-0.01
4	T	2-Chloro-1,3-butadiene	50.0000	47.1955	5.6	100	0.00
5	T	Methacrylonitrile	50.0000	48.2996	3.4	100	0.00
6	T	Isobutyl Alcohol	100.0000	96.5203	3.5	100	0.00
7	T	1-Butanol	50.0000	45.8622	8.3	100	-0.01
8	T	Cyclohexanone	50.0000	49.1508	1.7	100	0.00
9	T	2-Nitropropane	50.0000	62.5818	-25.2	100	0.00
10	T	Ethyl Acetate	50.0000	48.2986	3.4	100	0.00
11	T	Methyl methacrylate	50.0000	47.2293	5.5	100	0.00
12	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
13	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M08237.D A9FOOWT.M Thu Aug 20 11:44:41 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\061415\11M08238.D Vial: 5
Acq On : 14 Jun 2015 11:34 Operator: TMB /DLW
Sample : WG527475-05 100ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 11:56:24 2015 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

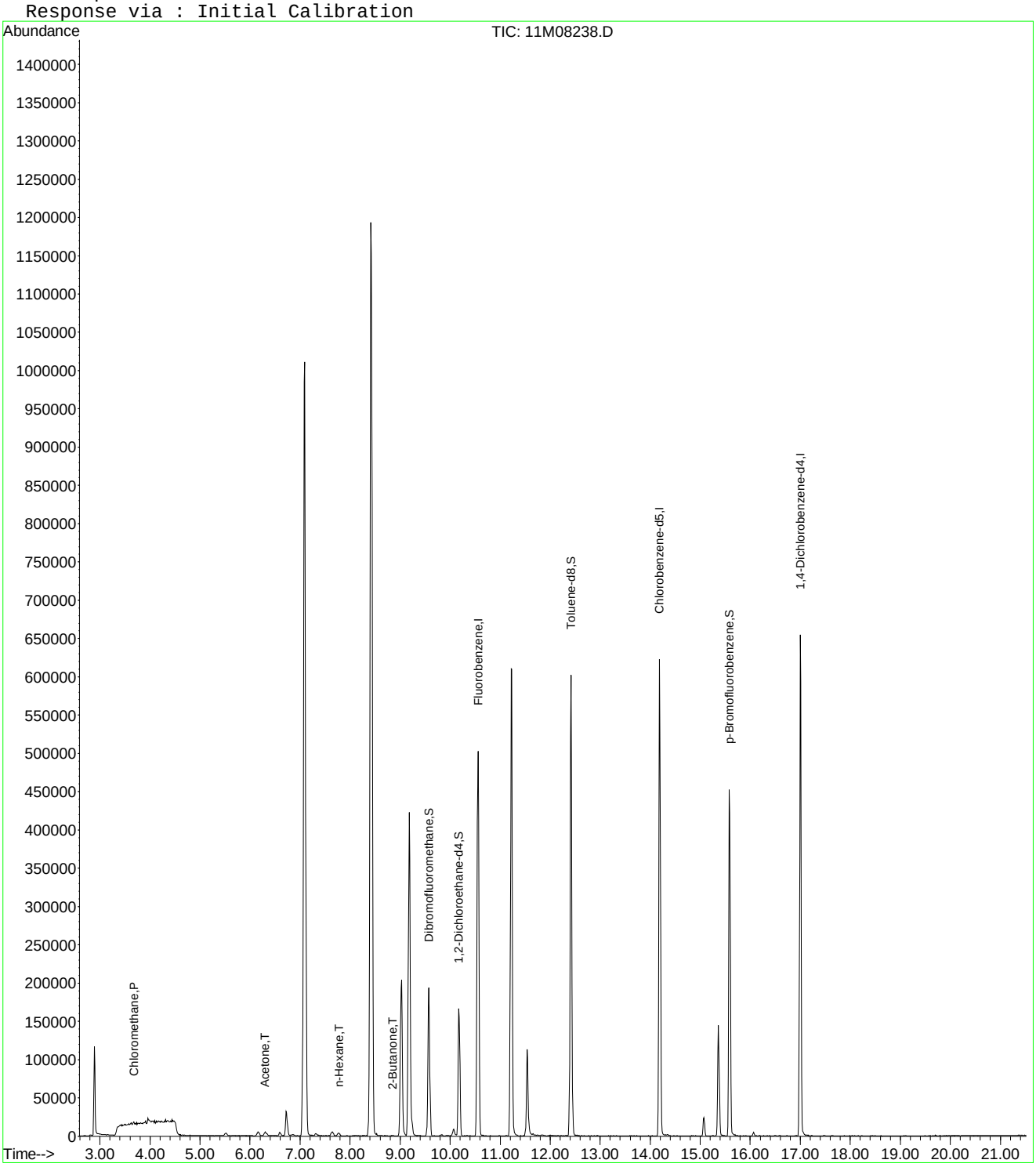
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	593660	25.00	ug/L	-0.01
56) Chlorobenzene-d5	14.19	117	435951	25.00	ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.00	152	224898	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.57	111	154015	23.3717	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 93.48%			
43) 1,2-Dichloroethane-d4	10.17	65	141727	19.8012	ug/L	-0.01
Spiked Amount 25.000	Range 80 - 120		Recovery = 79.20%#			
57) Toluene-d8	12.42	98	525710	28.5517	ug/L	-0.01
Spiked Amount 25.000	Range 88 - 110		Recovery = 114.20%#			
78) p-Bromofluorobenzene	15.58	95	182017	25.2926	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.16%			
Target Compounds						Qvalue
3) Chloromethane	3.68	50	2521	0.2445	ug/L	100
13) Acetone	6.30	43	8631	4.9378	ug/L	80
24) n-Hexane	7.78	57	2688	0.2479	ug/L #	72
29) 2-Butanone	8.85	43	412	0.1450	ug/L #	77

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\061415\11M08238.D Vial: 5
Acq On : 14 Jun 2015 11:34 Operator: TMB /DLW
Sample : WG527475-05 100ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 11:56 2015 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061415\11M08238.D Vial: 5
Acq On : 14 Jun 2015 11:34 Operator: TMB /DLW
Sample : WG527475-05 100ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 09:43:58 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	593660	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	435951	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	224898	25.00	ug/L	-0.03

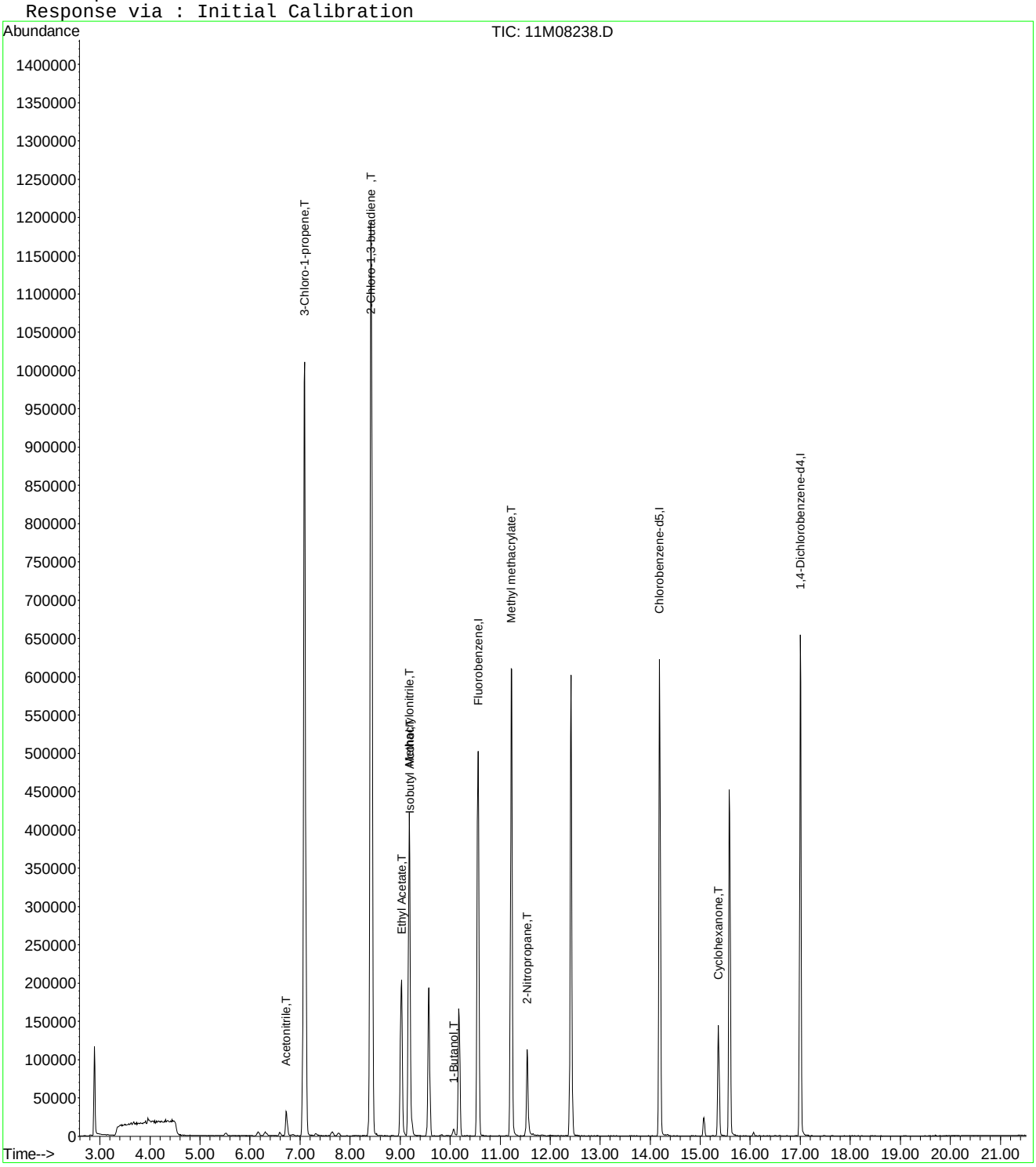
Target Compounds						Qvalue
2) Acetonitrile	6.72	41	41783	88.1177	ug/L	97
3) 3-Chloro-1-propene	7.09	41	901667	87.4486	ug/L	84
4) 2-Chloro-1,3-butadiene	8.42	53	1055196	99.8955	ug/L	96
5) Methacrylonitrile	9.18	41	269812	94.9555	ug/L	83
6) Isobutyl Alcohol	9.19	43	28965	265.8717	ug/L	87
7) 1-Butanol	10.07	56	7719	169.0243	ug/L	87
8) Cyclohexanone	15.36	55	72878	92.9342	ug/L	95
9) 2-Nitropropane	11.54	43	76568	70.3304	ug/L	82
10) Ethyl Acetate	9.03	43	331707	94.9253	ug/L	95
11) Methyl methacrylate	11.22	41	375863	99.7350	ug/L	89

(#) = qualifier out of range (m) = manual integration
11M08238.D A9FOOWT.M Tue Jun 16 09:43:58 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08238.D Vial: 5
Acq On : 14 Jun 2015 11:34 Operator: TMB /DLW
Sample : WG527475-05 100ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 9:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08238.D Vial: 5
Acq On : 14 Jun 2015 11:34 Operator: TMB /DLW
Sample : WG527475-05 100ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28:09 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	593660	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	435951	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	224898	25.00	ug/L	-0.03

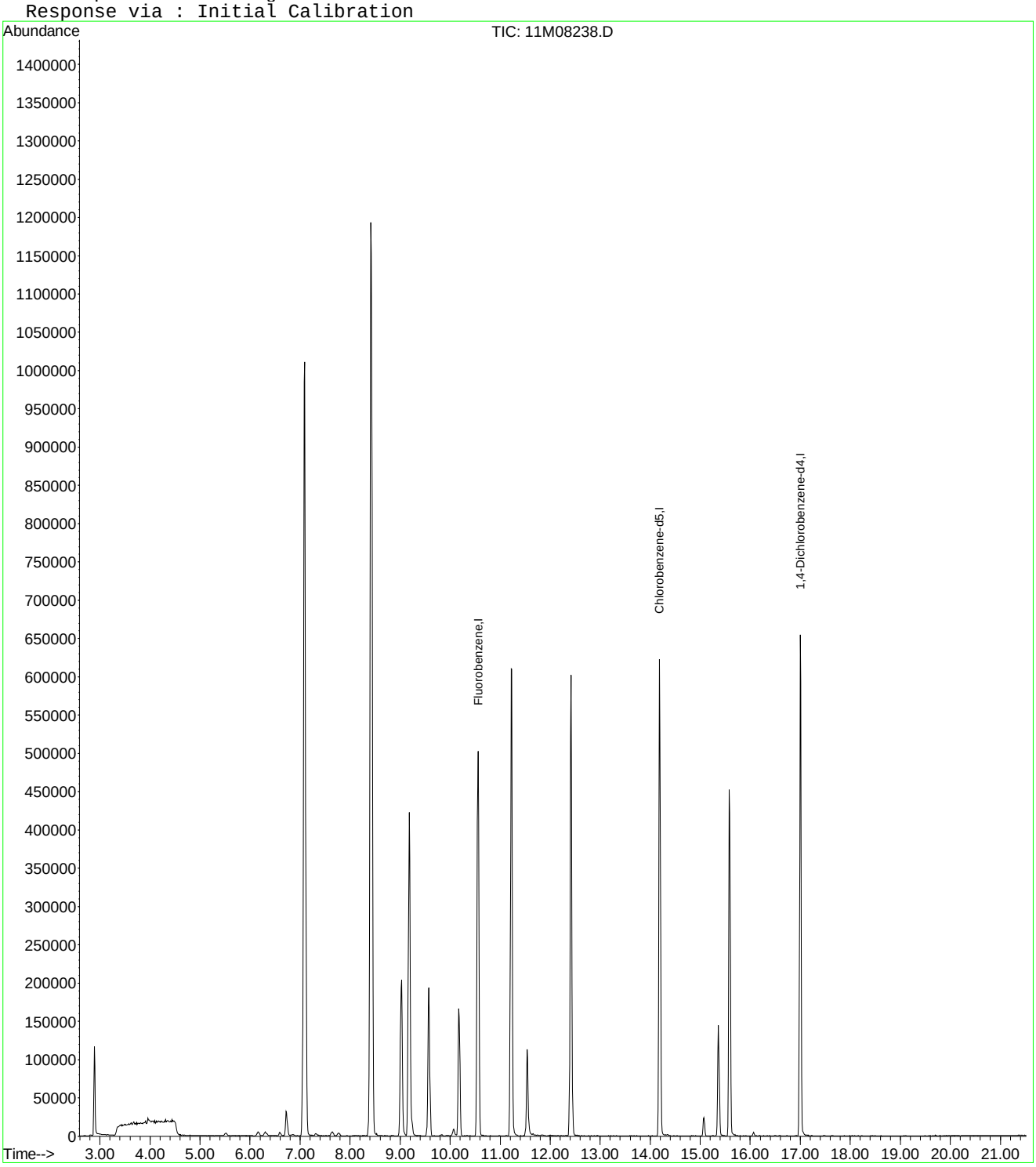
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08238.D Vial: 5
Acq On : 14 Jun 2015 11:34 Operator: TMB /DLW
Sample : WG527475-05 100ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061415\11M08238.D Vial: 5
Acq On : 14 Jun 2015 11:34 Operator: TMB /DLW
Sample : WG527475-05 100ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43:50 2015 Quant Results File: A9FOOWT.RES

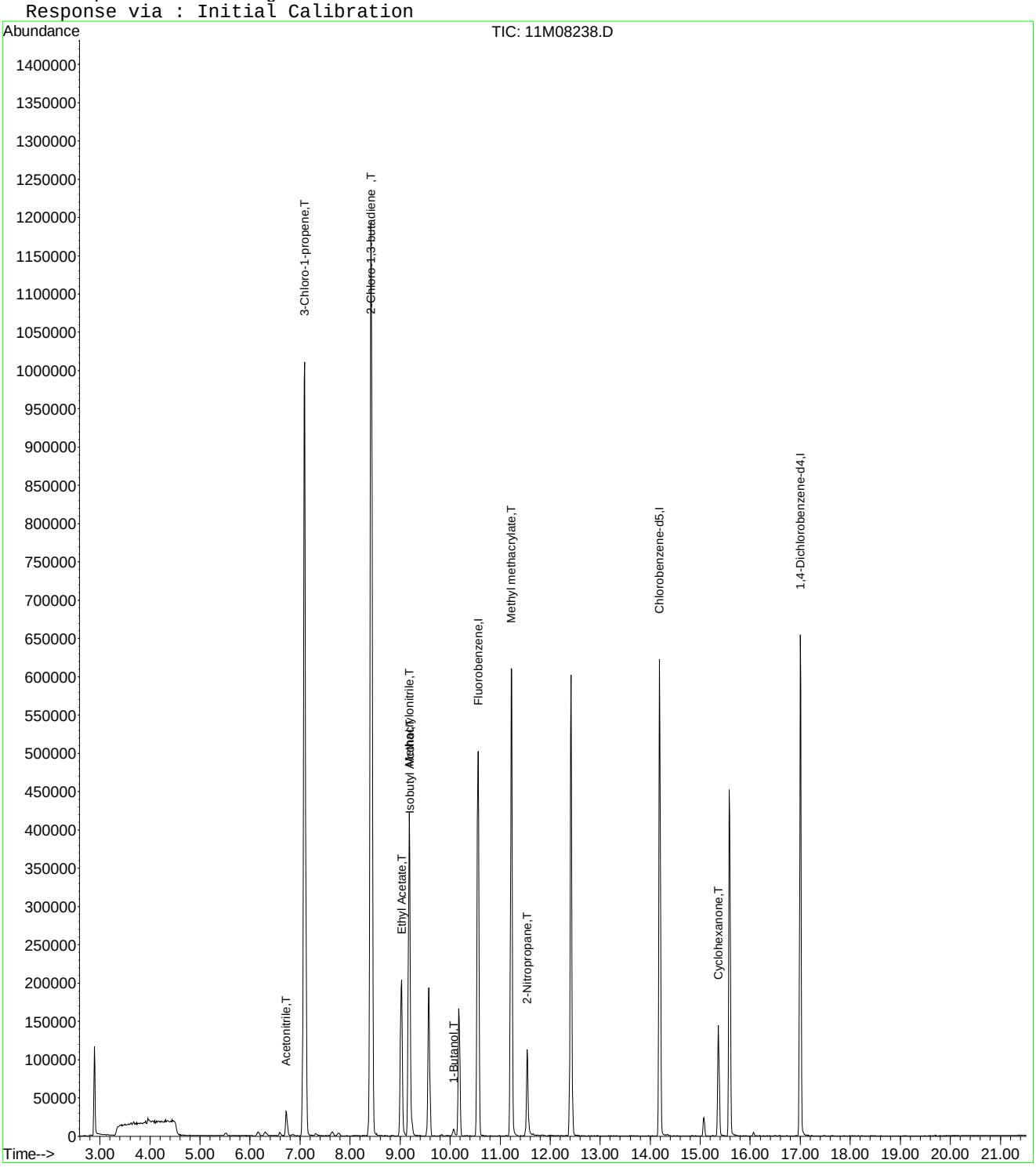
Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	593660	25.00	ug/L	0.00
12) Chlorobenzene-d5	14.19	117	435951	25.00	ug/L	0.00
13) 1,4-Dichlorobenzene-d4	17.00	152	224898	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.72	41	41783	91.7658	ug/L	97
3) 3-Chloro-1-propene	7.09	41	901667	100.9151	ug/L	84
4) 2-Chloro-1,3-butadiene	8.42	53	1055196	98.3785	ug/L	96
5) Methacrylonitrile	9.18	41	269812	97.7026	ug/L	83
6) Isobutyl Alcohol	9.19	43	28965	203.8255	ug/L	87
7) 1-Butanol	10.07	56	7719	102.6849	ug/L	87
8) Cyclohexanone	15.36	55	72878	106.7319	ug/L	95
9) 2-Nitropropane	11.54	43	76568	102.5921	ug/L	82
10) Ethyl Acetate	9.03	43	331707	101.2749	ug/L	95
11) Methyl methacrylate	11.22	41	375863	98.6916	ug/L	89

(#) = qualifier out of range (m) = manual integration
11M08238.D A9FOOWT.M Thu Aug 20 11:43:50 2015 Page 1

Data File : C:\MSDCHEM\1\DATA\061415\11M08238.D Vial: 5
Acq On : 14 Jun 2015 11:34 Operator: TMB /DLW
Sample : WG527475-05 100ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061415\11M08238.D Vial: 5
Acq On : 14 Jun 2015 11:34 Operator: TMB /DLW
Sample : WG527475-05 100ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	100.0000	91.7658	8.2	100	0.00
3	T	3-Chloro-1-propene	100.0000	100.9152	-0.9	100	0.00
4	T	2-Chloro-1,3-butadiene	100.0000	98.3785	1.6	100	0.00
5	T	Methacrylonitrile	100.0000	97.7026	2.3	100	0.00
6	T	Isobutyl Alcohol	200.0000	203.8255	-1.9	100	0.00
7	T	1-Butanol	100.0000	102.6849	-2.7	100	0.00
8	T	Cyclohexanone	100.0000	106.7319	-6.7	100	0.00
9	T	2-Nitropropane	100.0000	102.5921	-2.6	100	0.00
10	T	Ethyl Acetate	100.0000	101.2749	-1.3	100	0.00
11	T	Methyl methacrylate	100.0000	98.6916	1.3	100	0.00
12	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
13	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M08238.D A9FOOWT.M Thu Aug 20 11:44:51 2015 Page 1

Data File : C:\MSDchem\1\data\061415\11M08239.D Vial: 6
Acq On : 14 Jun 2015 12:06 Operator: TMB /DLW
Sample : WG527475-06 200ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 12:28:24 2015 Quant Results File: 8260WTR.RES

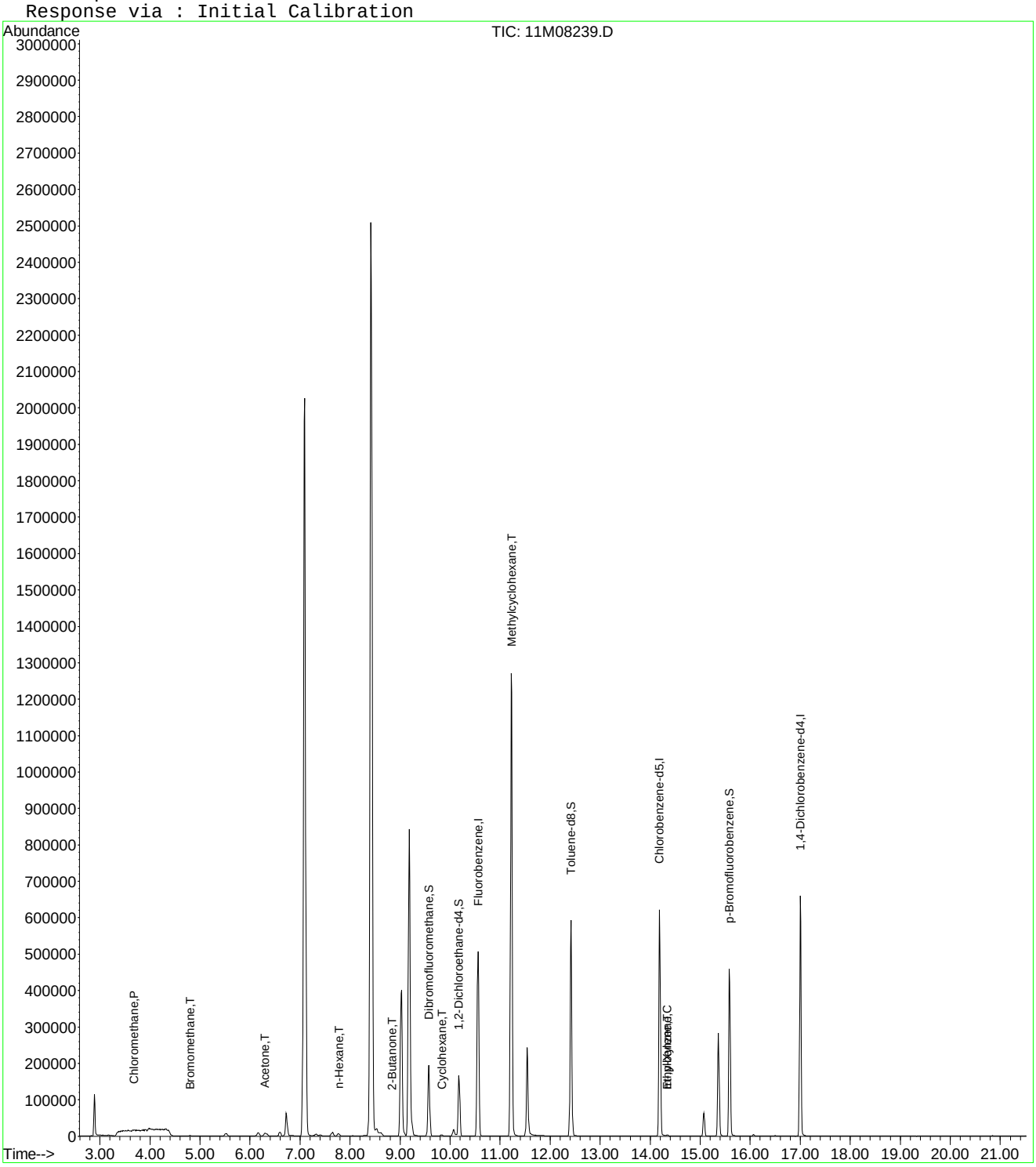
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	594644	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.19	117	435974	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.00	152	229058	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.57	111	154998	23.4820	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 93.92%			
43) 1,2-Dichloroethane-d4	10.17	65	140981	19.6644	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 78.64%#			
57) Toluene-d8	12.42	98	523704	28.4412	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 113.76%#			
78) p-Bromofluorobenzene	15.58	95	185106	25.2547	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.00%			
Target Compounds						Qvalue
3) Chloromethane	3.68	50	2432	0.2354	ug/L #	41
6) Bromomethane	4.80	94	741	0.2165	ug/L	88
13) Acetone	6.30	43	14437	8.2458	ug/L	88
24) n-Hexane	7.78	57	4836	0.4453	ug/L #	80
29) 2-Butanone	8.84	43	1521	0.5342	ug/L #	77
39) Cyclohexane	9.83	56	2702	0.1826	ug/L #	90
47) Methylcyclohexane	11.23	83	2411	0.2326	ug/L #	1
70) Ethylbenzene	14.34	106	1287	0.1439	ug/L	84
71) m-,p-Xylene	14.34	106	1287	0.1218	ug/L #	4

(#) = qualifier out of range (m) = manual integration
11M08239.D 8260WTR.M Sun Jun 14 12:28:25 2015 Page 1

Data File : C:\MSDchem\1\data\061415\11M08239.D Vial: 6
Acq On : 14 Jun 2015 12:06 Operator: TMB /DLW
Sample : WG527475-06 200ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 12:28 2015 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08239.D Vial: 6
Acq On : 14 Jun 2015 12:06 Operator: TMB /DLW
Sample : WG527475-06 200ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 09:43:59 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

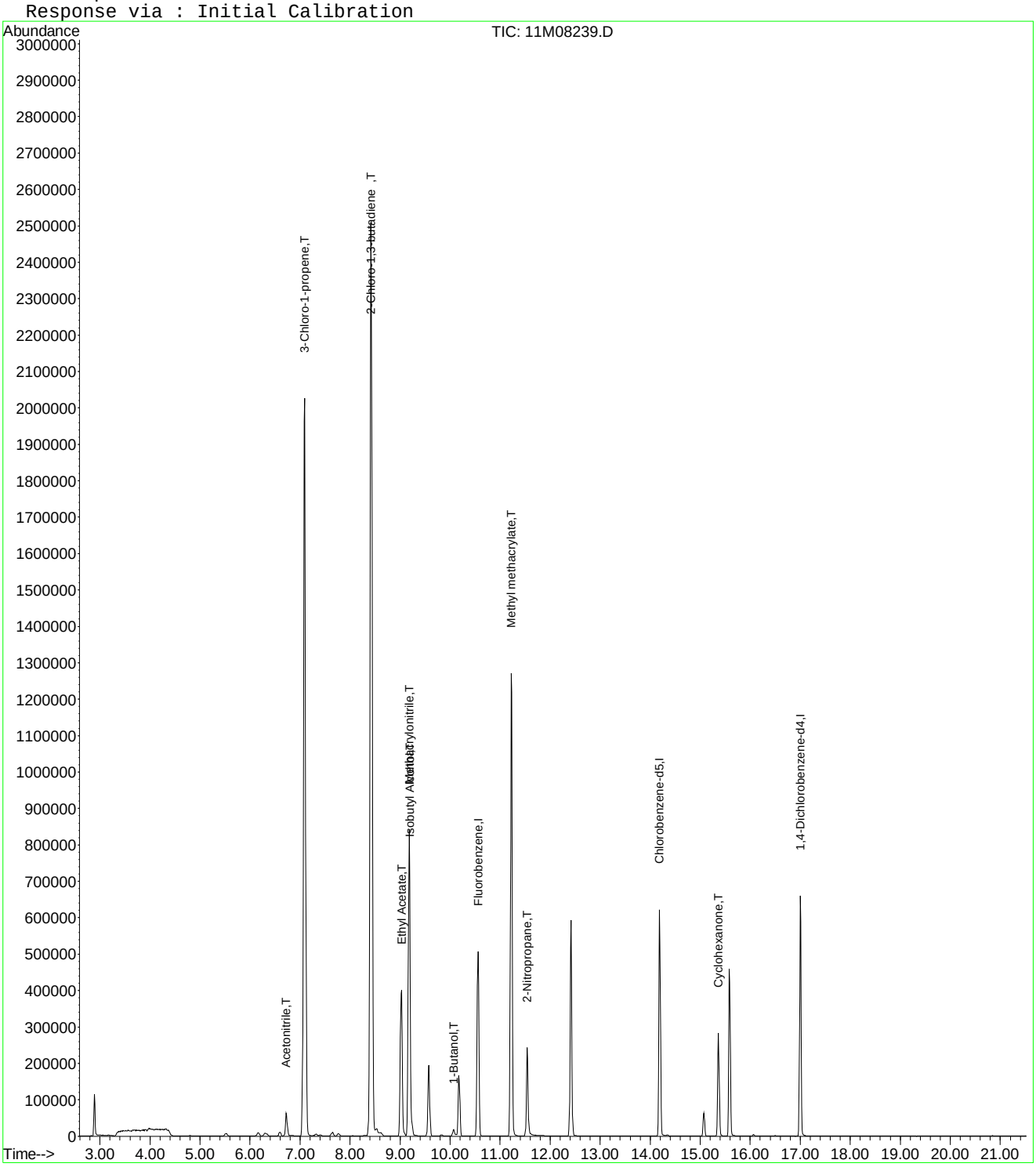
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	594644	25.00	ug/L		-0.03
12) Chlorobenzene-d5	14.19	117	435974	25.00	ug/L		-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	229058	25.00	ug/L		-0.03
Target Compounds							Qvalue
2) Acetonitrile	6.72	41	84573	178.0639	ug/L		99
3) 3-Chloro-1-propene	7.09	41	1784664	172.8000	ug/L		83
4) 2-Chloro-1,3-butadiene	8.42	53	2139008	202.1651	ug/L		95
5) Methacrylonitrile	9.18	41	534300	187.7261	ug/L		82
6) Isobutyl Alcohol	9.19	43	51366	470.7117	ug/L		98
7) 1-Butanol	10.07	56	15596	340.9432	ug/L	#	87
8) Cyclohexanone	15.36	55	142194	181.0260	ug/L		95
9) 2-Nitropropane	11.54	43	168554	154.5666	ug/L		84
10) Ethyl Acetate	9.03	43	649446	185.5458	ug/L		94
11) Methyl methacrylate	11.22	41	751654	199.1209	ug/L		88

(#) = qualifier out of range (m) = manual integration
11M08239.D A9FOOWT.M Tue Jun 16 09:43:59 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08239.D Vial: 6
Acq On : 14 Jun 2015 12:06 Operator: TMB /DLW
Sample : WG527475-06 200ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 9:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08239.D Vial: 6
Acq On : 14 Jun 2015 12:06 Operator: TMB /DLW
Sample : WG527475-06 200ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28:11 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	594644	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	435974	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	229058	25.00	ug/L	-0.03

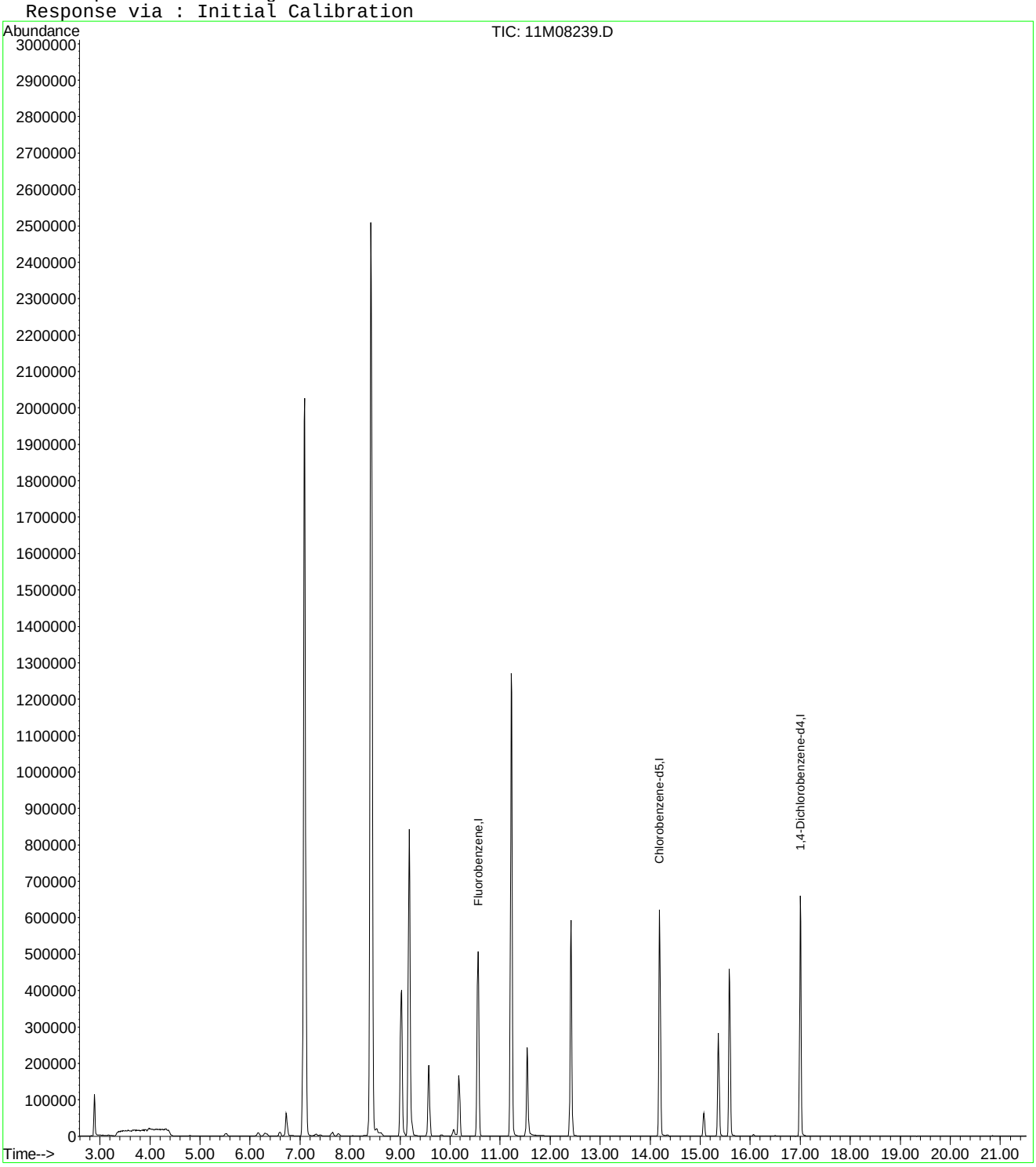
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
11M08239.D A9FOOWT.M Thu Aug 20 11:28:11 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08239.D Vial: 6
Acq On : 14 Jun 2015 12:06 Operator: TMB /DLW
Sample : WG527475-06 200ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08239.D Vial: 6
Acq On : 14 Jun 2015 12:06 Operator: TMB /DLW
Sample : WG527475-06 200ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43:51 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

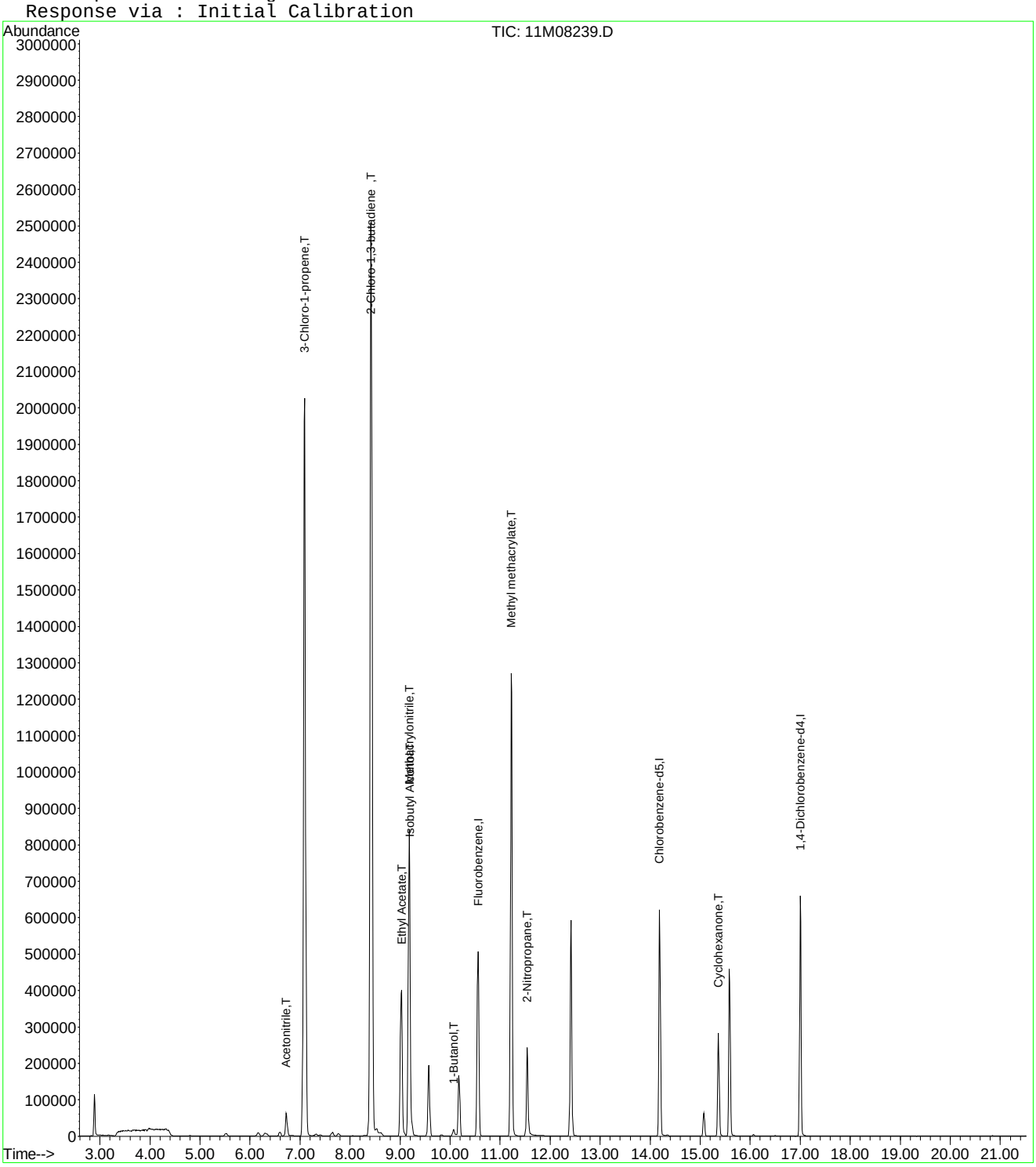
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	594644	25.00	ug/L		0.00
12) Chlorobenzene-d5	14.19	117	435974	25.00	ug/L		0.00
13) 1,4-Dichlorobenzene-d4	17.00	152	229058	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.72	41	84573	185.4358	ug/L		99
3) 3-Chloro-1-propene	7.09	41	1784664	199.4102	ug/L		83
4) 2-Chloro-1,3-butadiene	8.42	53	2139008	199.0949	ug/L		95
5) Methacrylonitrile	9.18	41	534300	193.1571	ug/L		82
6) Isobutyl Alcohol	9.19	43	51337	360.6585	ug/L		98
7) 1-Butanol	10.07	56	15596	207.1283	ug/L	#	87
8) Cyclohexanone	15.36	55	142194	207.9025	ug/L		95
9) 2-Nitropropane	11.54	43	168554	186.4698	ug/L		84
10) Ethyl Acetate	9.03	43	649446	197.9570	ug/L		94
11) Methyl methacrylate	11.22	41	751654	197.0377	ug/L		88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08239.D Vial: 6
Acq On : 14 Jun 2015 12:06 Operator: TMB /DLW
Sample : WG527475-06 200ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration



Data File : C:\MSDchem\1\data\061415\11M08240.D Vial: 7
Acq On : 14 Jun 2015 12:38 Operator: TMB /DLW
Sample : WG527475-07 300ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 13:00:23 2015 Quant Results File: 8260WTR.RES

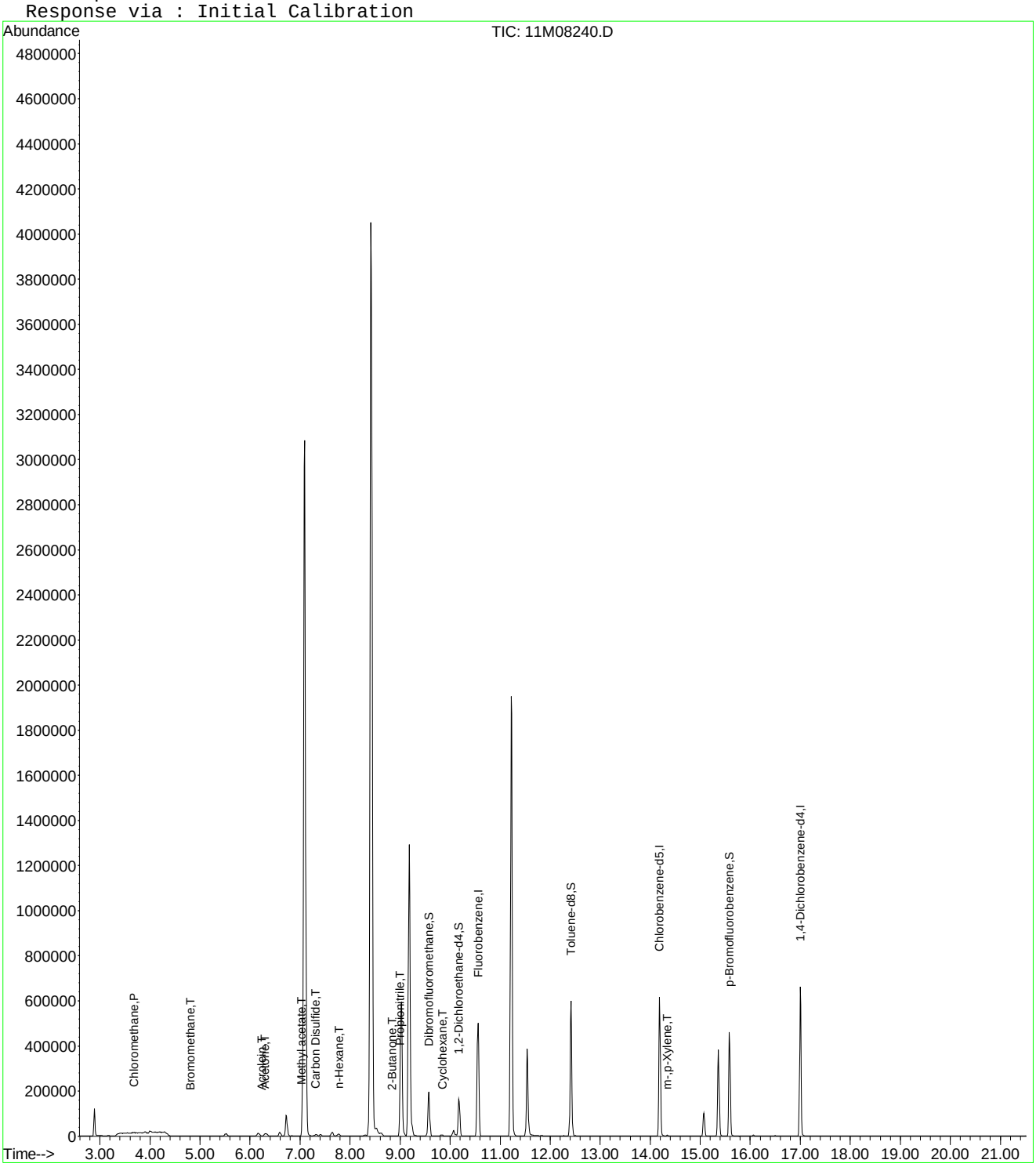
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	590021	25.00	ug/L	-0.01
56) Chlorobenzene-d5	14.19	117	427539	25.00	ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.00	152	226251	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.57	111	154989	23.6646	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 94.64%			
43) 1,2-Dichloroethane-d4	10.17	65	137616	19.3454	ug/L	-0.01
Spiked Amount 25.000	Range 80 - 120		Recovery = 77.40%#			
57) Toluene-d8	12.42	98	526940	29.1815	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 116.72%#			
78) p-Bromofluorobenzene	15.58	95	183651	25.3670	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.48%			
Target Compounds						Qvalue
3) Chloromethane	3.68	50	4067	0.3968	ug/L	98
6) Bromomethane	4.81	94	1456	0.4286	ug/L	94
11) Acrolein	6.23	56	2665	2.6647	ug/L #	63
13) Acetone	6.30	43	17405	10.0188	ug/L	87
18) Methyl acetate	7.03	43	1109	0.1829	ug/L #	67
20) Carbon Disulfide	7.31	76	3126	0.1557	ug/L #	88
24) n-Hexane	7.78	57	7639	0.7089	ug/L #	89
29) 2-Butanone	8.84	43	1699	0.6014	ug/L #	77
30) Propionitrile	9.00	54	221	0.2481	ug/L #	1
39) Cyclohexane	9.84	56	3351	0.2282	ug/L #	68
71) m-,p-Xylene	14.34	106	1591	0.1535	ug/L #	17

(#) = qualifier out of range (m) = manual integration
11M08240.D 8260WTR.M Sun Jun 14 13:00:23 2015 Page 1

Data File : C:\MSDchem\1\data\061415\11M08240.D Vial: 7
Acq On : 14 Jun 2015 12:38 Operator: TMB /DLW
Sample : WG527475-07 300ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 13:00 2015 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08240.D Vial: 7
Acq On : 14 Jun 2015 12:38 Operator: TMB /DLW
Sample : WG527475-07 300ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 09:44:00 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

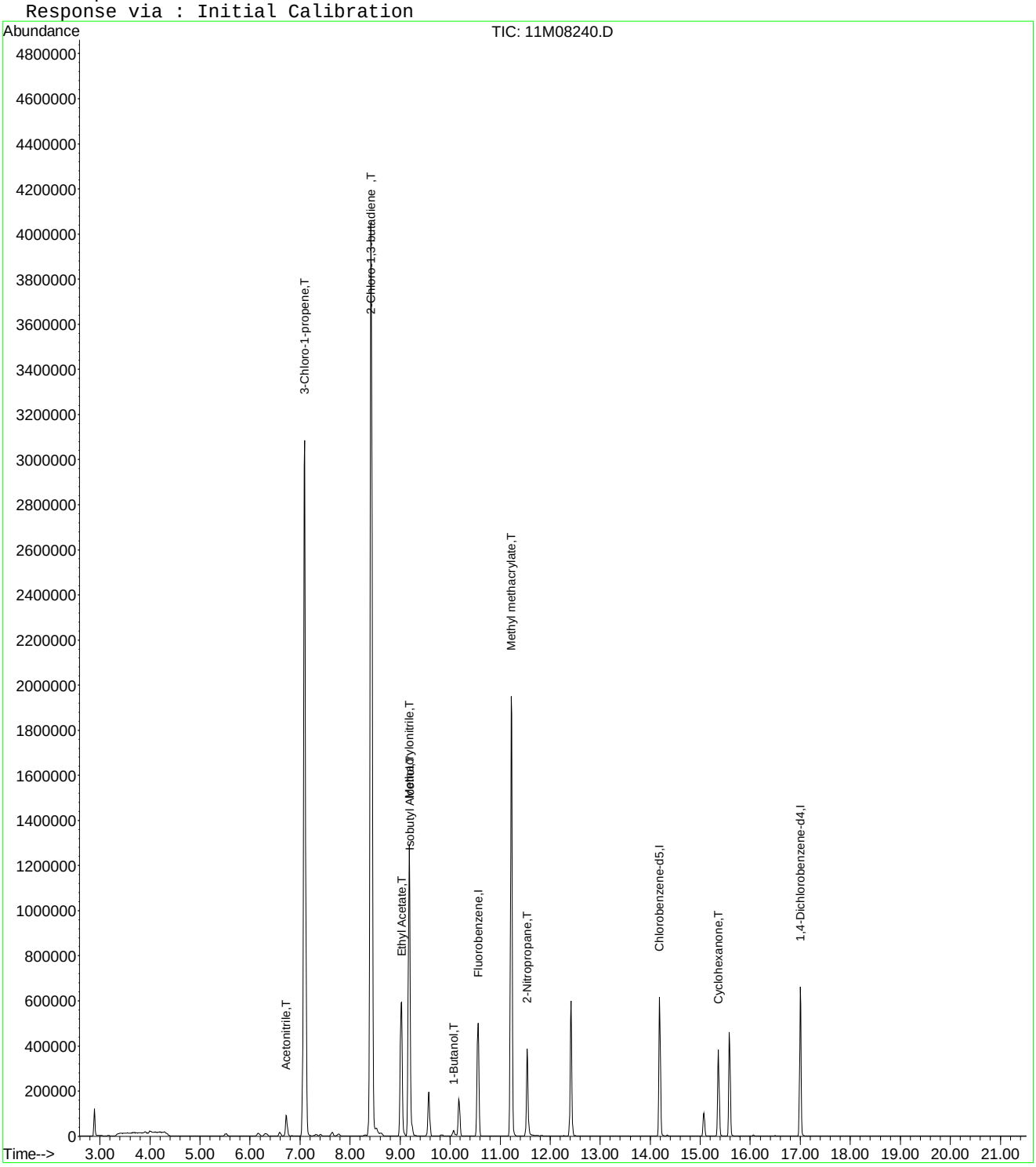
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	590021	25.00	ug/L		-0.03
12) Chlorobenzene-d5	14.19	117	427539	25.00	ug/L		-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	226251	25.00	ug/L		-0.03
Target Compounds							Qvalue
2) Acetonitrile	6.72	41	124797	264.8121	ug/L		99
3) 3-Chloro-1-propene	7.09	41	2683921	261.9067	ug/L		83
4) 2-Chloro-1,3-butadiene	8.42	53	3409409	324.7599	ug/L		95
5) Methacrylonitrile	9.18	41	809195	286.5380	ug/L		82
6) Isobutyl Alcohol	9.19	43	83440	770.6251	ug/L		88
7) 1-Butanol	10.07	56	21640	476.7773	ug/L		91
8) Cyclohexanone	15.36	55	191378	245.5507	ug/L		95
9) 2-Nitropropane	11.54	43	277273	256.2558	ug/L		85
10) Ethyl Acetate	9.03	43	962378	277.1043	ug/L	#	93
11) Methyl methacrylate	11.22	41	1142167	304.9426	ug/L		88

(#) = qualifier out of range (m) = manual integration
11M08240.D A9FOOWT.M Tue Jun 16 09:44:01 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08240.D Vial: 7
Acq On : 14 Jun 2015 12:38 Operator: TMB /DLW
Sample : WG527475-07 300ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 9:44 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08240.D Vial: 7
Acq On : 14 Jun 2015 12:38 Operator: TMB /DLW
Sample : WG527475-07 300ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28:12 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	590021	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	427539	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	226251	25.00	ug/L	-0.03

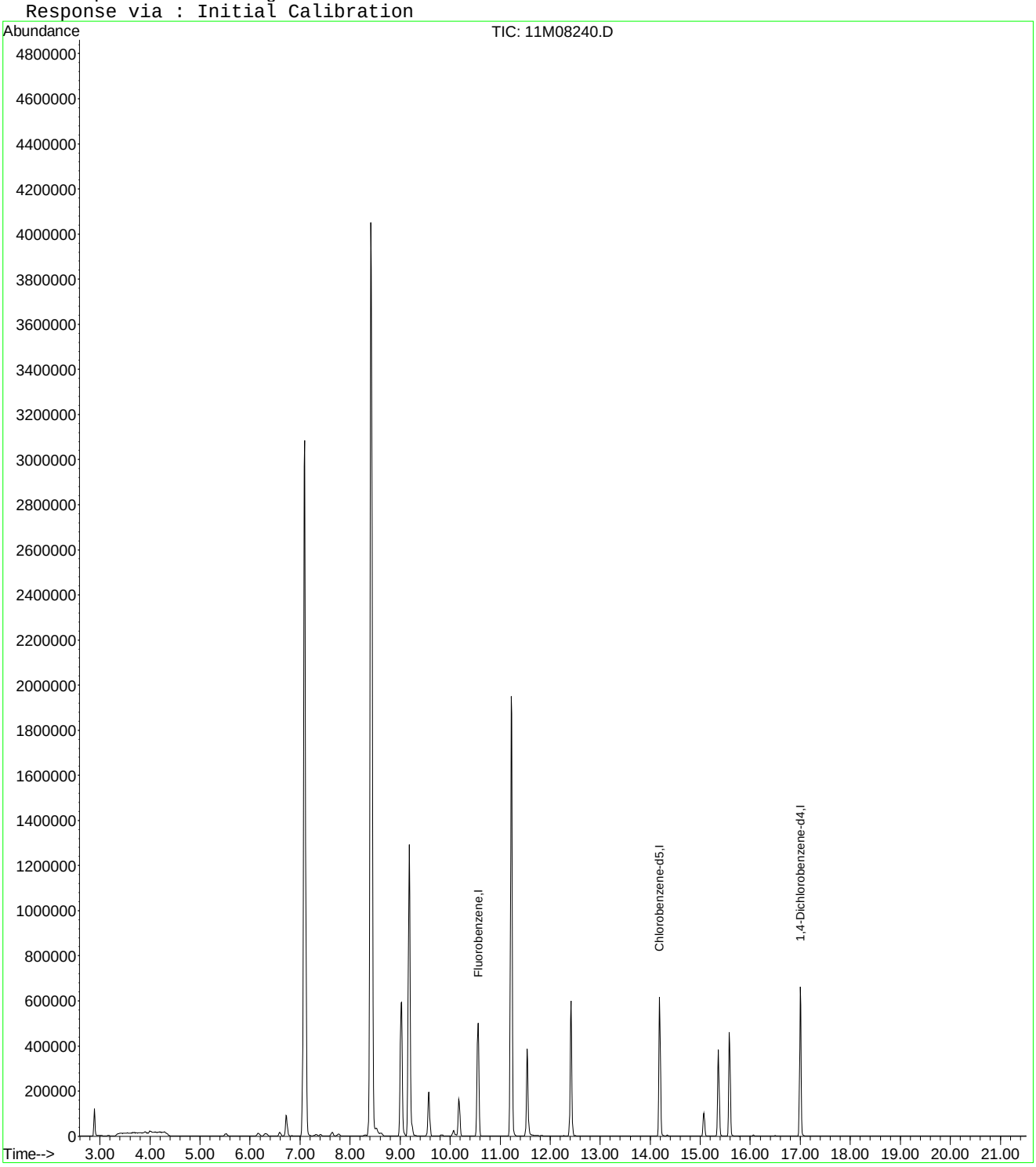
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
11M08240.D A9FOOWT.M Thu Aug 20 11:28:12 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08240.D Vial: 7
Acq On : 14 Jun 2015 12:38 Operator: TMB /DLW
Sample : WG527475-07 300ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08240.D Vial: 7
Acq On : 14 Jun 2015 12:38 Operator: TMB /DLW
Sample : WG527475-07 300ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43:52 2015 Quant Results File: A9FOOWT.RES

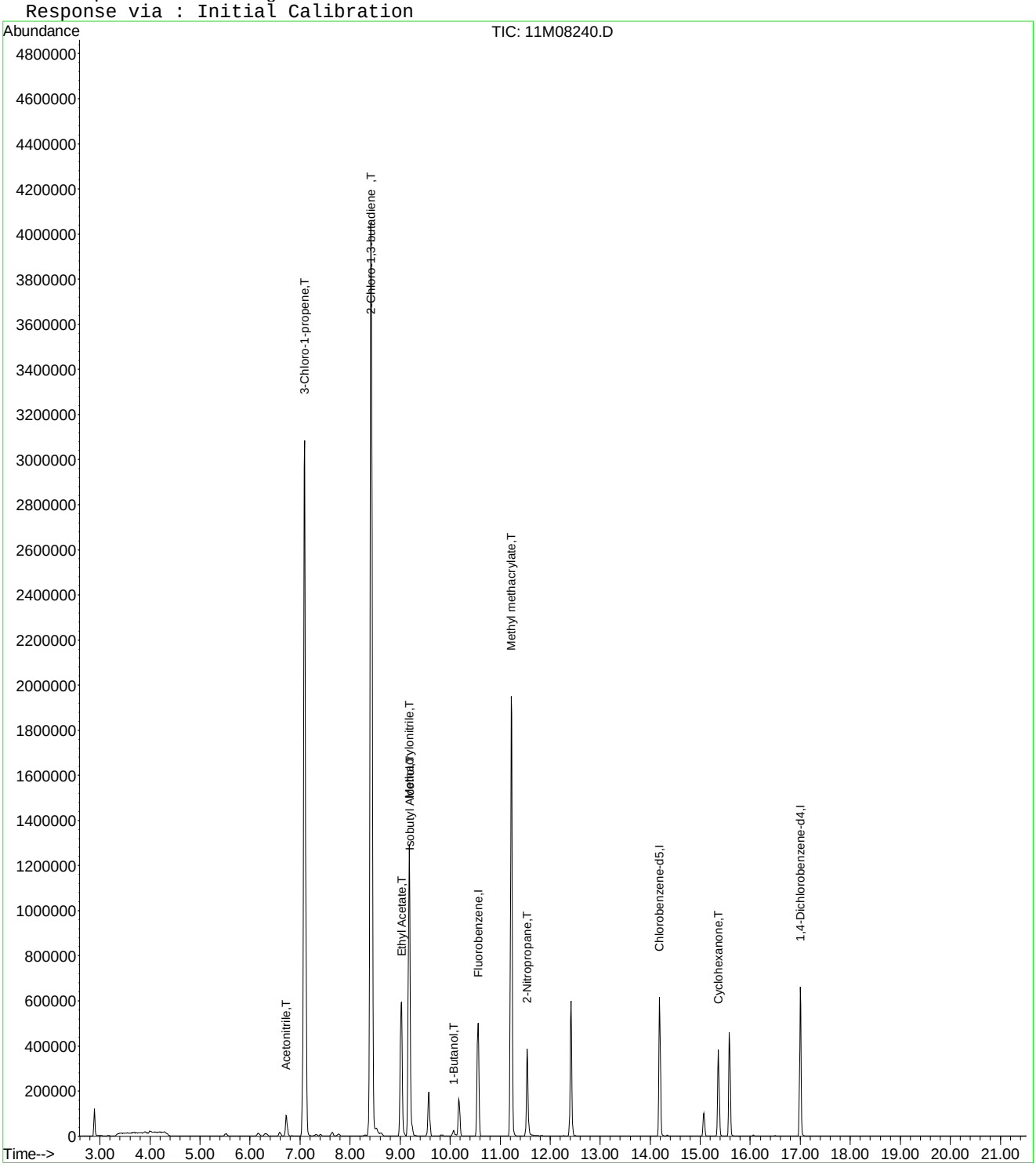
Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	590021	25.00	ug/L		0.00
12) Chlorobenzene-d5	14.19	117	427539	25.00	ug/L		0.00
13) 1,4-Dichlorobenzene-d4	17.00	152	226251	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.72	41	124797	275.7754	ug/L		99
3) 3-Chloro-1-propene	7.09	41	2683921	302.2388	ug/L		83
4) 2-Chloro-1,3-butadiene	8.42	53	3409409	319.8280	ug/L		95
5) Methacrylonitrile	9.18	41	809195	294.8276	ug/L		82
6) Isobutyl Alcohol	9.19	43	83440	590.7851	ug/L		88
7) 1-Butanol	10.07	56	21640	289.6496	ug/L		91
8) Cyclohexanone	15.36	55	191378	282.0071	ug/L		95
9) 2-Nitropropane	11.54	43	277273	287.7263	ug/L		85
10) Ethyl Acetate	9.03	43	962378	295.6400	ug/L	#	93
11) Methyl methacrylate	11.22	41	1142167	301.7522	ug/L		88

(#) = qualifier out of range (m) = manual integration
11M08240.D A9FOOWT.M Thu Aug 20 11:43:53 2015 Page 1

Data File : C:\MSDCHEM\1\DATA\061415\11M08240.D Vial: 7
Acq On : 14 Jun 2015 12:38 Operator: TMB /DLW
Sample : WG527475-07 300ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\061415\11M08241.D Vial: 8
Acq On : 14 Jun 2015 13:10 Operator: TMB /DLW
Sample : WG527475-08 400ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 13:32:12 2015 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

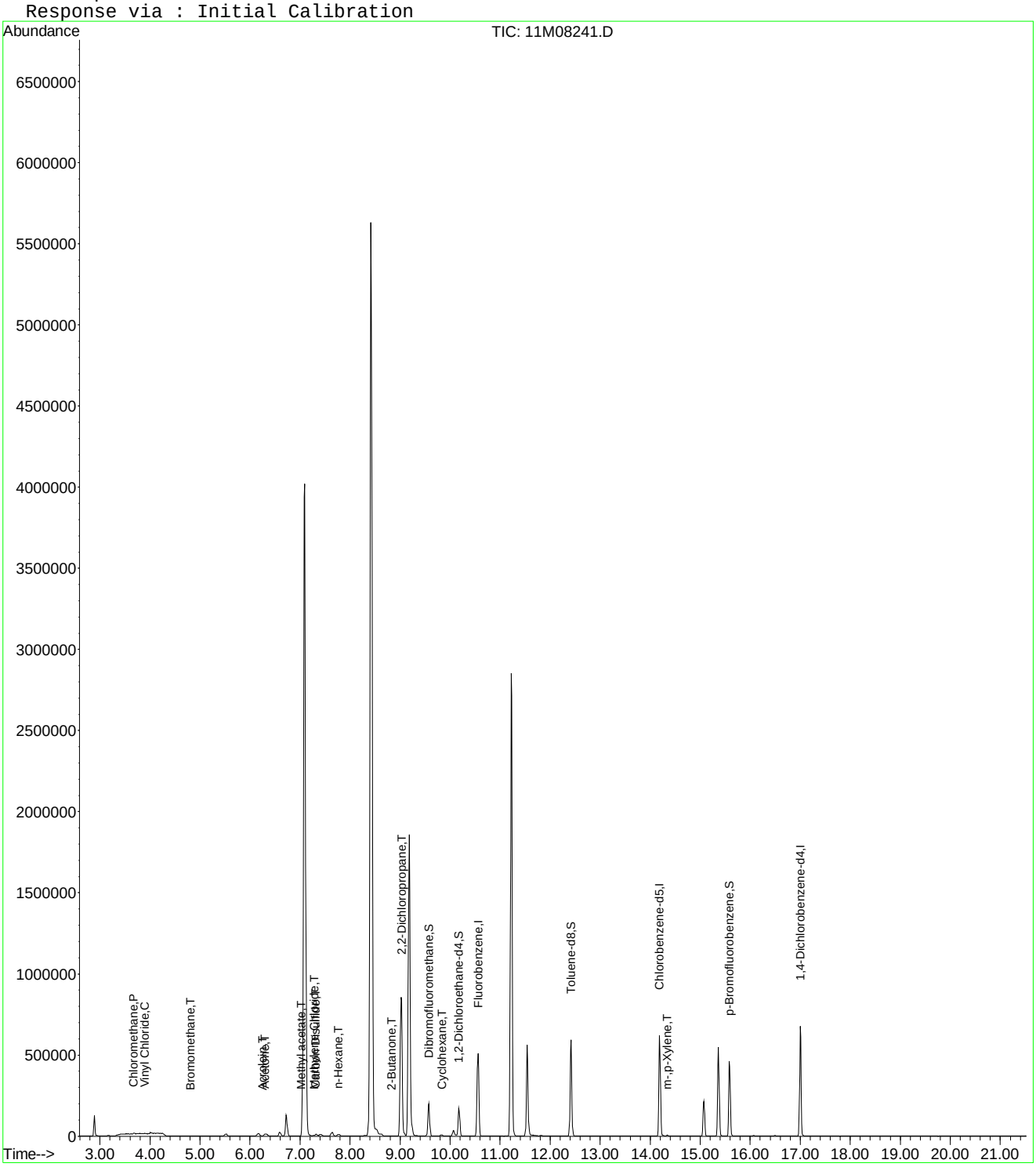
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	602921	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.19	117	438769	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.00	152	234608	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.57	111	157490	23.5320	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 94.12%			
43) 1,2-Dichloroethane-d4	10.17	65	142445	19.5958	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 78.40%#			
57) Toluene-d8	12.42	98	529319	28.5630	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 114.24%#			
78) p-Bromofluorobenzene	15.58	95	184124	24.5264	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.12%			
Target Compounds						Qvalue
3) Chloromethane	3.67	50	5951	0.5682	ug/L	86
4) Vinyl Chloride	3.90	62	1145	0.1556	ug/L #	42
6) Bromomethane	4.81	94	1631	0.4699	ug/L #	56
11) Acrolein	6.25	56	3616	3.5382	ug/L #	49
13) Acetone	6.30	43	20681	11.6499	ug/L	94
18) Methyl acetate	7.02	43	2450	0.3954	ug/L #	67
19) Methylene Chloride	7.28	84	869	0.1218	ug/L #	49
20) Carbon Disulfide	7.31	76	4210	0.2052	ug/L	97
24) n-Hexane	7.77	57	9223	0.8376	ug/L #	93
29) 2-Butanone	8.83	43	2572	0.8910	ug/L #	77
31) 2,2-Dichloropropane	9.03	77	1535	0.1632	ug/L #	41
39) Cyclohexane	9.83	56	5053	0.3367	ug/L	91
71) m-,p-Xylene	14.34	106	2254	0.2119	ug/L #	36

(#) = qualifier out of range (m) = manual integration
11M08241.D 8260WTR.M Sun Jun 14 13:32:14 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\061415\11M08241.D Vial: 8
Acq On : 14 Jun 2015 13:10 Operator: TMB /DLW
Sample : WG527475-08 400ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 13:32 2015 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08241.D Vial: 8
Acq On : 14 Jun 2015 13:10 Operator: TMB /DLW
Sample : WG527475-08 400ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 09:44:01 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

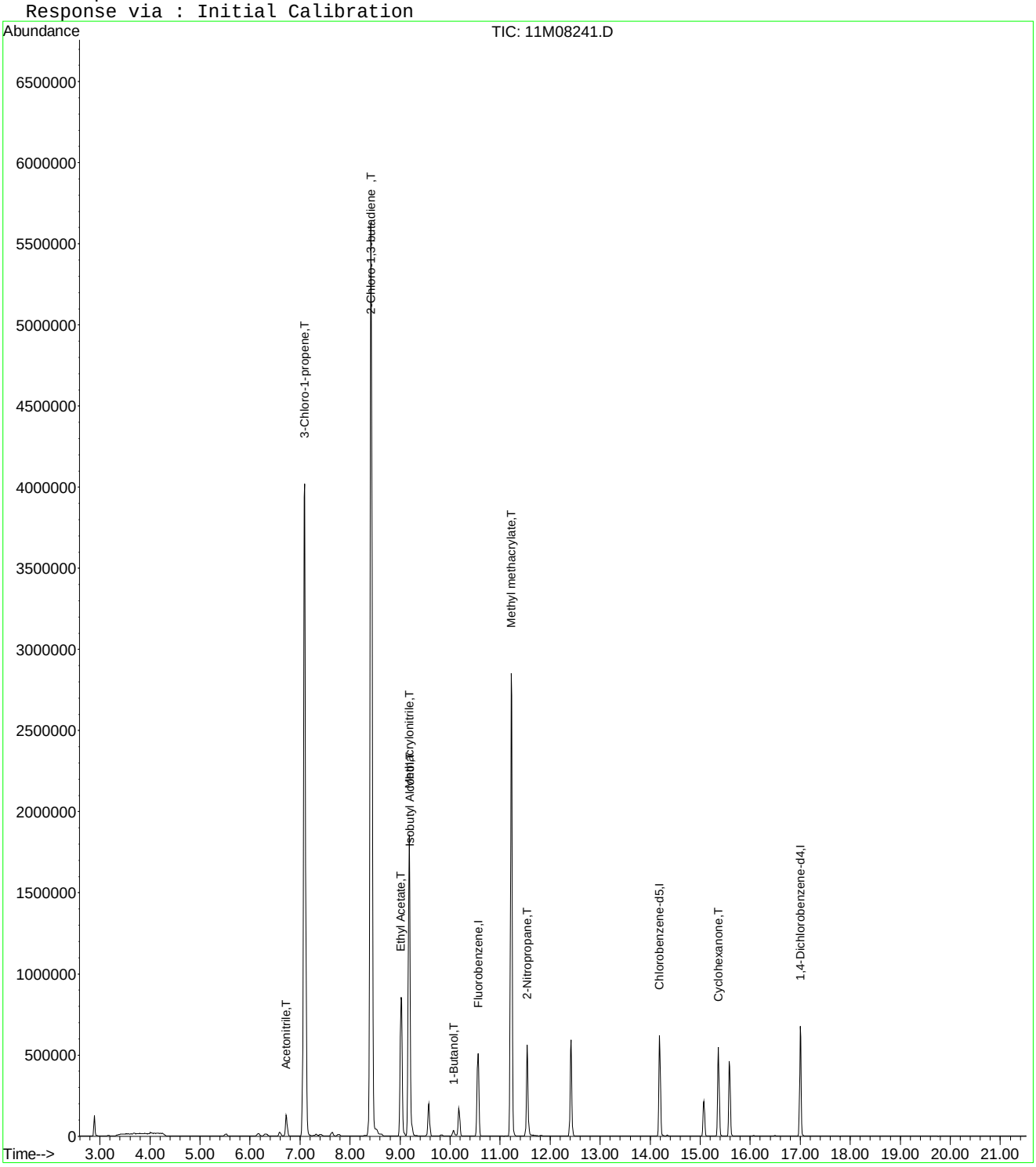
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	602921	25.00	ug/L		-0.03
12) Chlorobenzene-d5	14.19	117	438769	25.00	ug/L		-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	234608	25.00	ug/L		-0.03
Target Compounds							Qvalue
2) Acetonitrile	6.72	41	173440	360.1555	ug/L		100
3) 3-Chloro-1-propene	7.09	41	3550959	339.1014	ug/L		82
4) 2-Chloro-1,3-butadiene	8.42	53	4600620	428.8513	ug/L		94
5) Methacrylonitrile	9.18	41	1153886	399.8518	ug/L		82
6) Isobutyl Alcohol	9.19	43	123004	1111.7192	ug/L		89
7) 1-Butanol	10.07	56	32355	697.6005	ug/L	#	86
8) Cyclohexanone	15.36	55	274055	344.1074	ug/L		95
9) 2-Nitropropane	11.54	43	405951	367.1528	ug/L		87
10) Ethyl Acetate	9.02	43	1363919	384.3202	ug/L	#	93
11) Methyl methacrylate	11.22	41	1637406	427.8110	ug/L		87

(#) = qualifier out of range (m) = manual integration
11M08241.D A9FOOWT.M Tue Jun 16 09:44:02 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08241.D Vial: 8
Acq On : 14 Jun 2015 13:10 Operator: TMB /DLW
Sample : WG527475-08 400ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 9:44 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08241.D Vial: 8
Acq On : 14 Jun 2015 13:10 Operator: TMB /DLW
Sample : WG527475-08 400ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28:13 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	602921	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	438769	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	234608	25.00	ug/L	-0.03

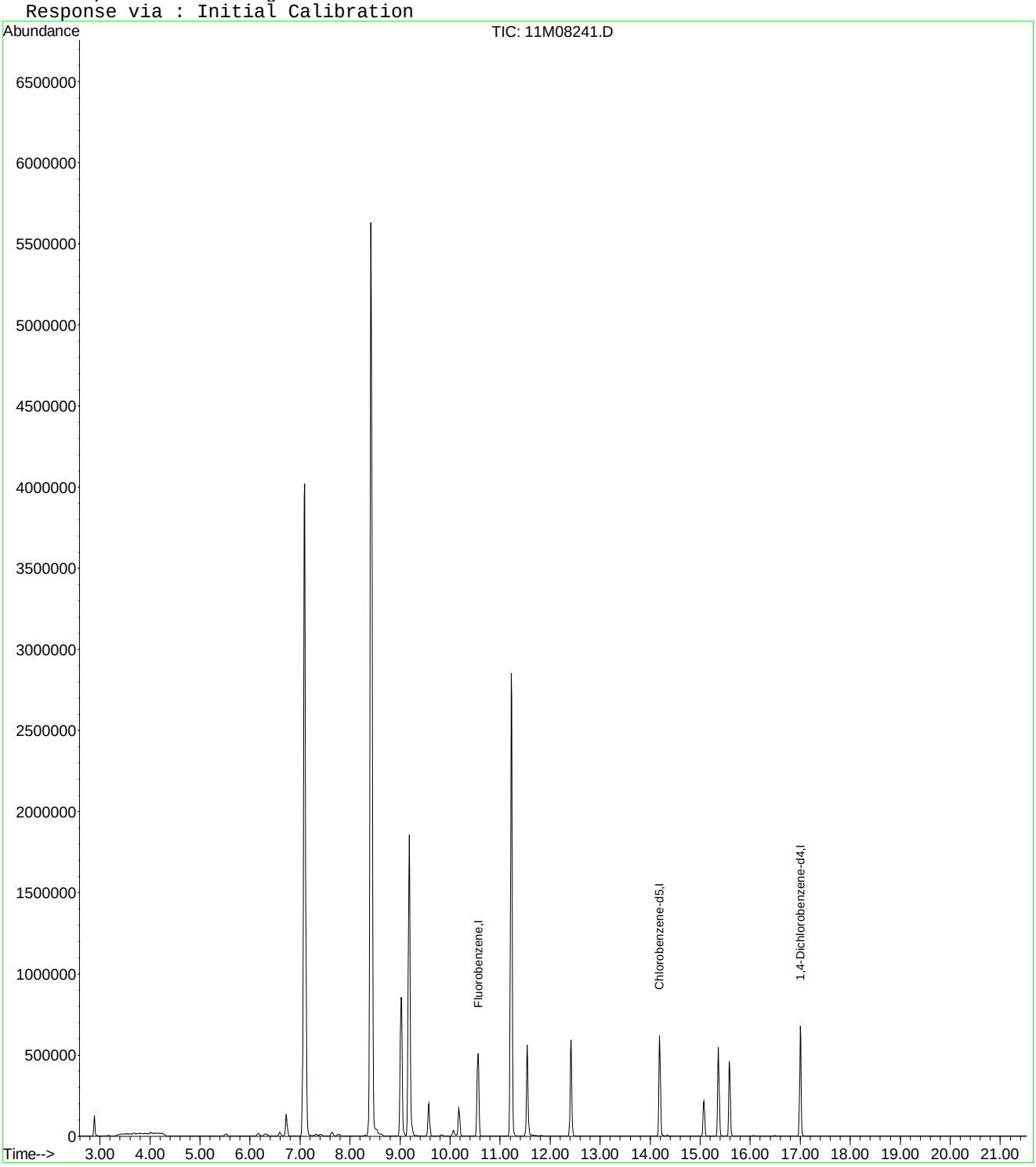
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
11M08241.D A9FOOWT.M Thu Aug 20 11:28:14 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08241.D Vial: 8
Acq On : 14 Jun 2015 13:10 Operator: TMB /DLW
Sample : WG527475-08 400ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08241.D Vial: 8
Acq On : 14 Jun 2015 13:10 Operator: TMB /DLW
Sample : WG527475-08 400ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43:53 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

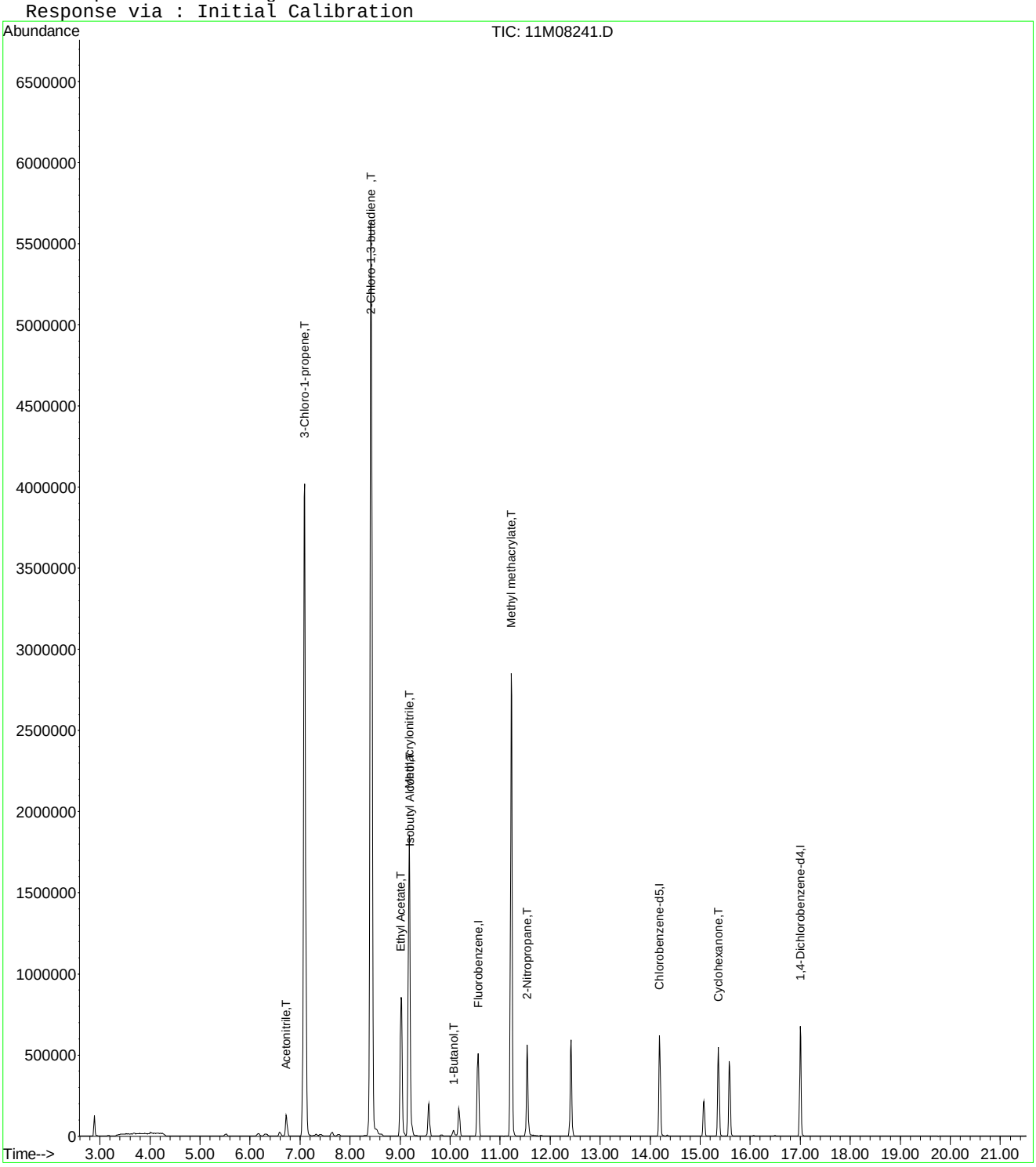
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	602921	25.00	ug/L		0.00
12) Chlorobenzene-d5	14.19	117	438769	25.00	ug/L		0.00
13) 1,4-Dichlorobenzene-d4	17.00	152	234608	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.72	41	173440	375.0660	ug/L		100
3) 3-Chloro-1-propene	7.09	41	3550959	391.3211	ug/L		82
4) 2-Chloro-1,3-butadiene	8.42	53	4600620	422.3386	ug/L		94
5) Methacrylonitrile	9.18	41	1153886	411.4196	ug/L		82
6) Isobutyl Alcohol	9.19	43	123004	852.2785	ug/L		89
7) 1-Butanol	10.07	56	32355	423.8032	ug/L	#	86
8) Cyclohexanone	15.36	55	274055	395.1962	ug/L		95
9) 2-Nitropropane	11.54	43	405951	398.1514	ug/L		87
10) Ethyl Acetate	9.02	43	1363919	410.0276	ug/L	#	93
11) Methyl methacrylate	11.22	41	1637406	423.3352	ug/L		87

(#) = qualifier out of range (m) = manual integration
11M08241.D A9FOOWT.M Thu Aug 20 11:43:54 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08241.D Vial: 8
Acq On : 14 Jun 2015 13:10 Operator: TMB /DLW
Sample : WG527475-08 400ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration



Data File : C:\MSDchem\1\data\061415\11M08242.D Vial: 9
Acq On : 14 Jun 2015 13:42 Operator: TMB /DLW
Sample : WG527475-09 500ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 14:04:11 2015 Quant Results File: 8260WTR.RES

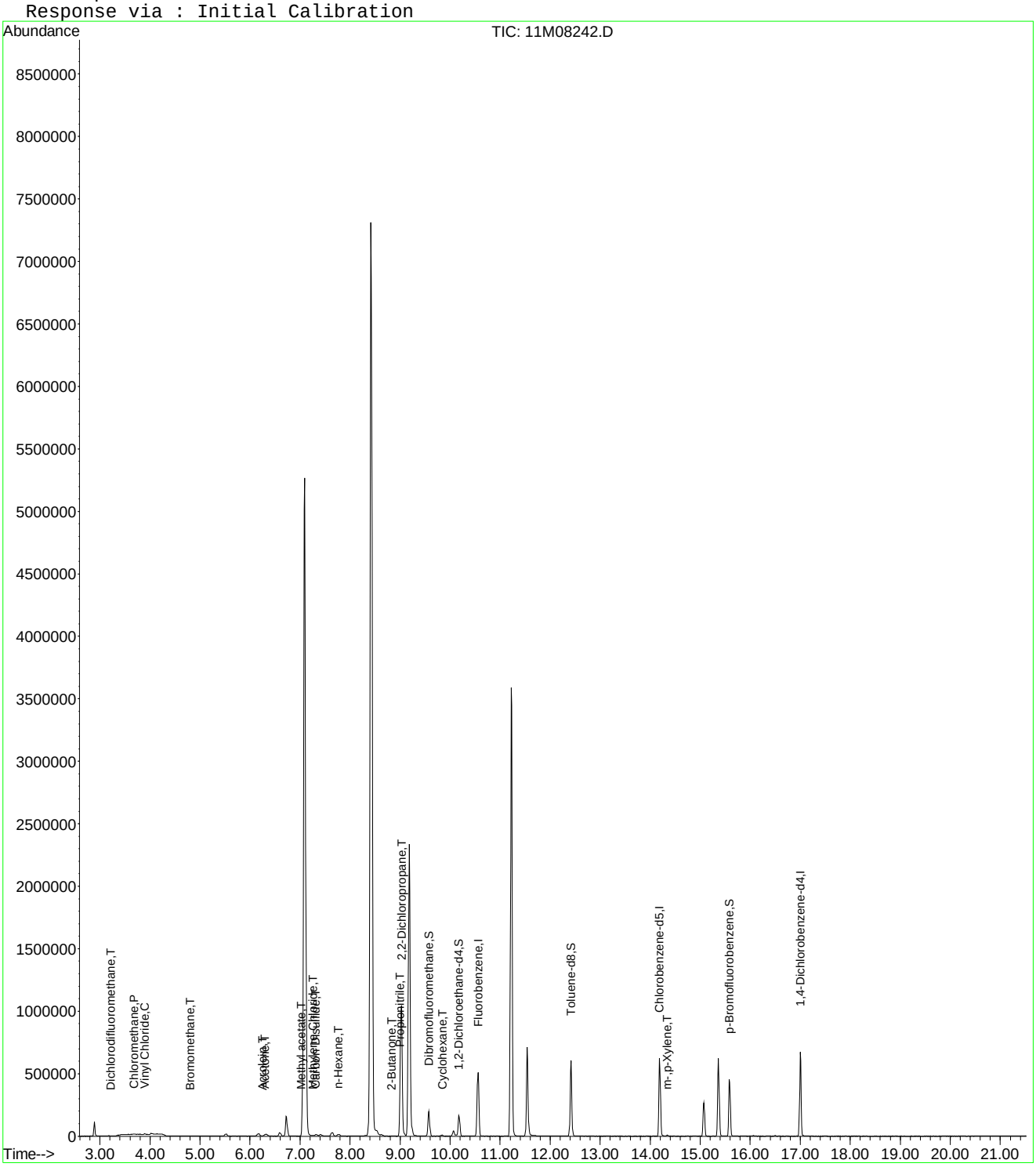
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	597347	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.19	117	436979	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.00	152	232858	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.57	111	155779	23.4935	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 93.96%			
43) 1,2-Dichloroethane-d4	10.17	65	141894	19.7022	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 78.80%#			
57) Toluene-d8	12.42	98	528602	28.6412	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 114.56%#			
78) p-Bromofluorobenzene	15.58	95	185769	24.9315	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.22	85	1211	0.1346	ug/L #	65
3) Chloromethane	3.68	50	8612	0.8299	ug/L	97
4) Vinyl Chloride	3.90	62	1110	0.1522	ug/L #	42
6) Bromomethane	4.80	94	872	0.2536	ug/L	68
11) Acrolein	6.25	56	4513	4.4571	ug/L	75
13) Acetone	6.30	43	20816	11.8354	ug/L	98
18) Methyl acetate	7.02	43	2826	0.4604	ug/L #	67
19) Methylene Chloride	7.26	84	1446	0.2045	ug/L	95
20) Carbon Disulfide	7.31	76	5502	0.2707	ug/L #	81
24) n-Hexane	7.77	57	12135	1.1123	ug/L #	96
29) 2-Butanone	8.83	43	2711	0.9479	ug/L #	77
30) Propionitrile	9.00	54	625	0.6931	ug/L #	1
31) 2,2-Dichloropropane	9.03	77	1917	0.2057	ug/L #	41
39) Cyclohexane	9.84	56	6427	0.4323	ug/L	96
71) m-,p-Xylene	14.34	106	3239	0.3057	ug/L	58

(#) = qualifier out of range (m) = manual integration
11M08242.D 8260WTR.M Sun Jun 14 14:04:12 2015 Page 1

Data File : C:\MSDchem\1\data\061415\11M08242.D Vial: 9
Acq On : 14 Jun 2015 13:42 Operator: TMB /DLW
Sample : WG527475-09 500ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 14:04 2015 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08242.D Vial: 9
Acq On : 14 Jun 2015 13:42 Operator: TMB /DLW
Sample : WG527475-09 500ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 09:44:02 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

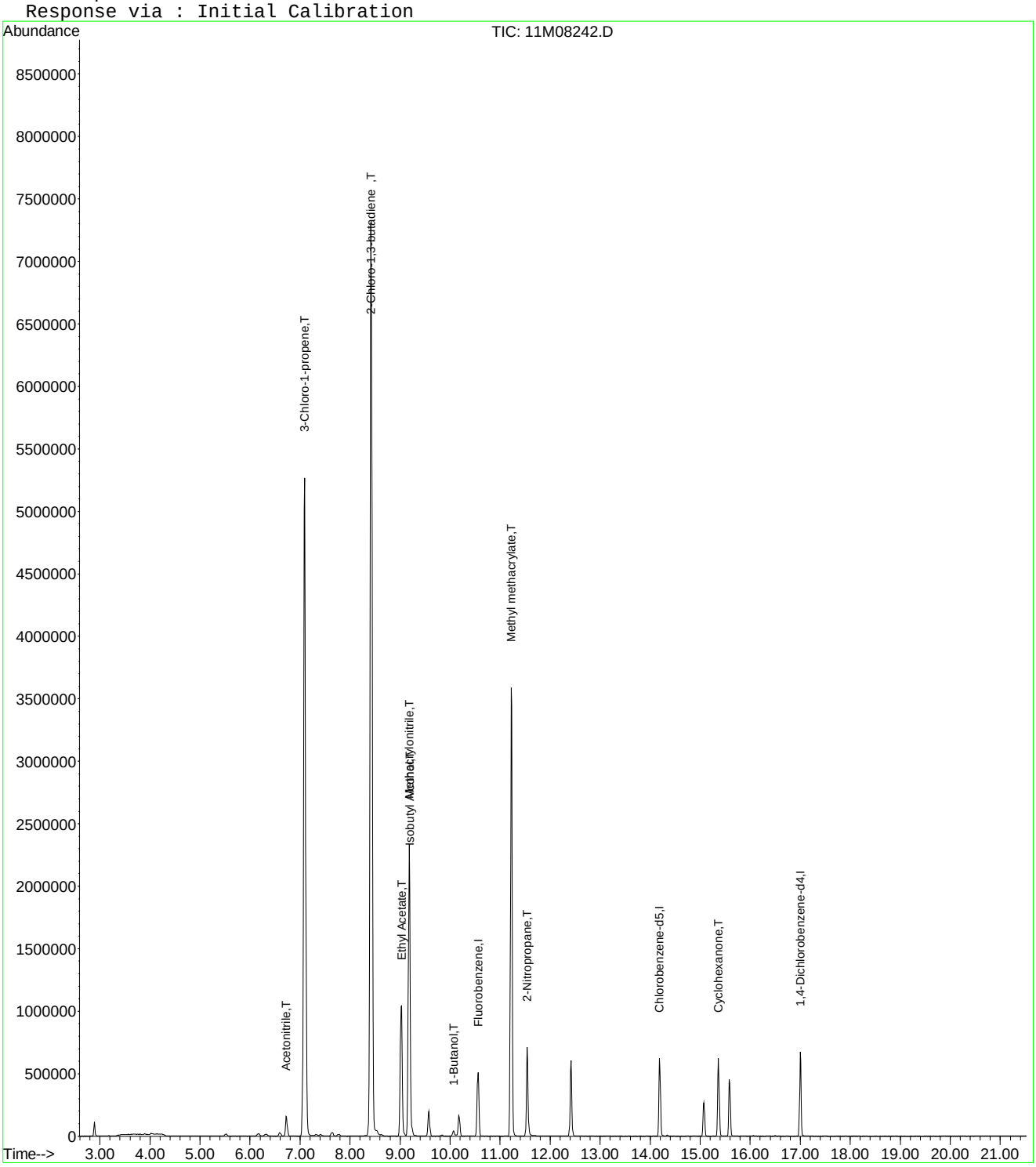
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	597347	25.00	ug/L		-0.03
12) Chlorobenzene-d5	14.19	117	436979	25.00	ug/L		-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	232858	25.00	ug/L		-0.03
Target Compounds							Qvalue
2) Acetonitrile	6.72	41	213542	447.5667	ug/L		100
3) 3-Chloro-1-propene	7.09	41	4596340	443.0265	ug/L		80
4) 2-Chloro-1,3-butadiene	8.42	53	5927514	557.6949	ug/L		92
5) Methacrylonitrile	9.18	41	1420105	496.6956	ug/L		79
6) Isobutyl Alcohol	9.19	43	141621	1291.9249	ug/L		95
7) 1-Butanol	10.07	56	37640	819.1222	ug/L		86
8) Cyclohexanone	15.36	55	308601	391.0996	ug/L		95
9) 2-Nitropropane	11.54	43	527973	481.9685	ug/L		88
10) Ethyl Acetate	9.03	43	1662142	472.7227	ug/L	#	93
11) Methyl methacrylate	11.22	41	2052004	541.1374	ug/L		86

(#) = qualifier out of range (m) = manual integration
11M08242.D A9FOOWT.M Tue Jun 16 09:44:03 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08242.D Vial: 9
Acq On : 14 Jun 2015 13:42 Operator: TMB /DLW
Sample : WG527475-09 500ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 16 9:44 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Fri Jun 05 12:09:09 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08242.D Vial: 9
Acq On : 14 Jun 2015 13:42 Operator: TMB /DLW
Sample : WG527475-09 500ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28:15 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	597347	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	436979	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.00	152	232858	25.00	ug/L	-0.03

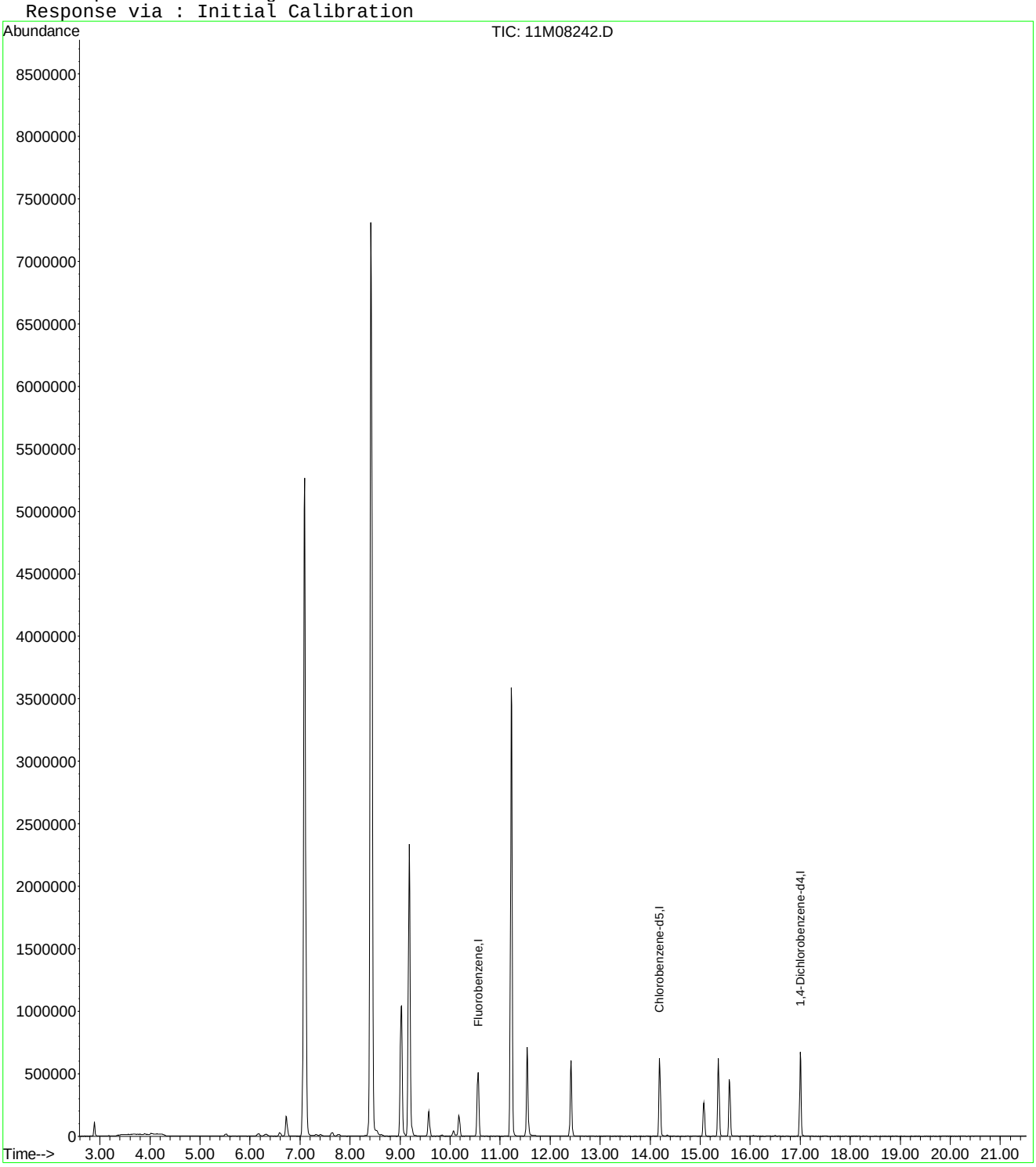
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
11M08242.D A9FOOWT.M Thu Aug 20 11:28:15 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08242.D Vial: 9
Acq On : 14 Jun 2015 13:42 Operator: TMB /DLW
Sample : WG527475-09 500ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08242.D Vial: 9
Acq On : 14 Jun 2015 13:42 Operator: TMB /DLW
Sample : WG527475-09 500ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43:54 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

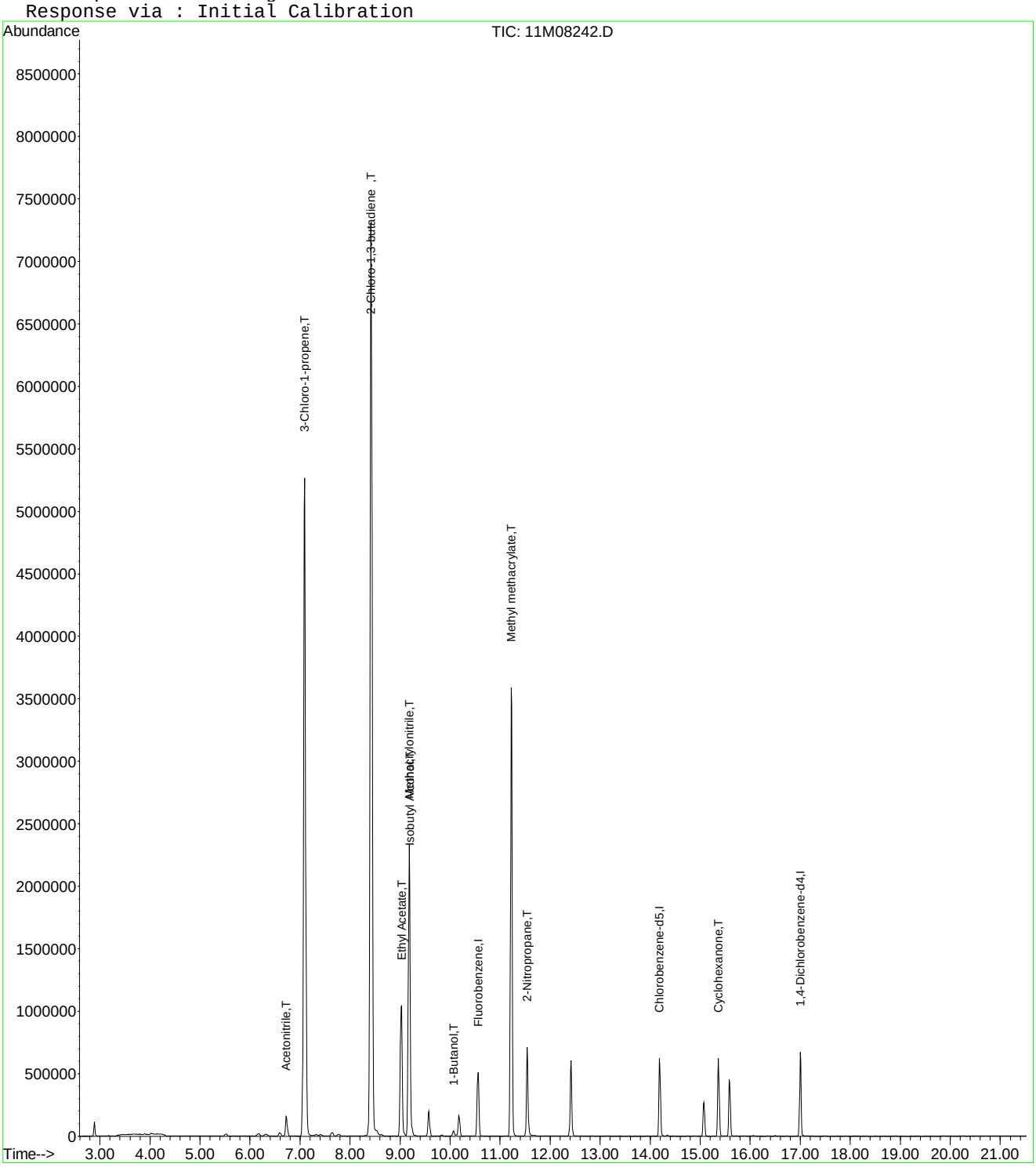
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	597347	25.00	ug/L		0.00
12) Chlorobenzene-d5	14.19	117	436979	25.00	ug/L		0.00
13) 1,4-Dichlorobenzene-d4	17.00	152	232858	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.72	41	213542	466.0961	ug/L		100
3) 3-Chloro-1-propene	7.09	41	4596340	511.2501	ug/L		80
4) 2-Chloro-1,3-butadiene	8.42	53	5927514	549.2255	ug/L		92
5) Methacrylonitrile	9.18	41	1420105	511.0651	ug/L		79
6) Isobutyl Alcohol	9.19	43	141574	990.1011	ug/L		95
7) 1-Butanol	10.07	56	37640	497.6295	ug/L		86
8) Cyclohexanone	15.36	55	308601	449.1652	ug/L		95
9) 2-Nitropropane	11.54	43	527973	512.4786	ug/L		88
10) Ethyl Acetate	9.03	43	1662142	504.3435	ug/L	#	93
11) Methyl methacrylate	11.22	41	2052004	535.4759	ug/L		86

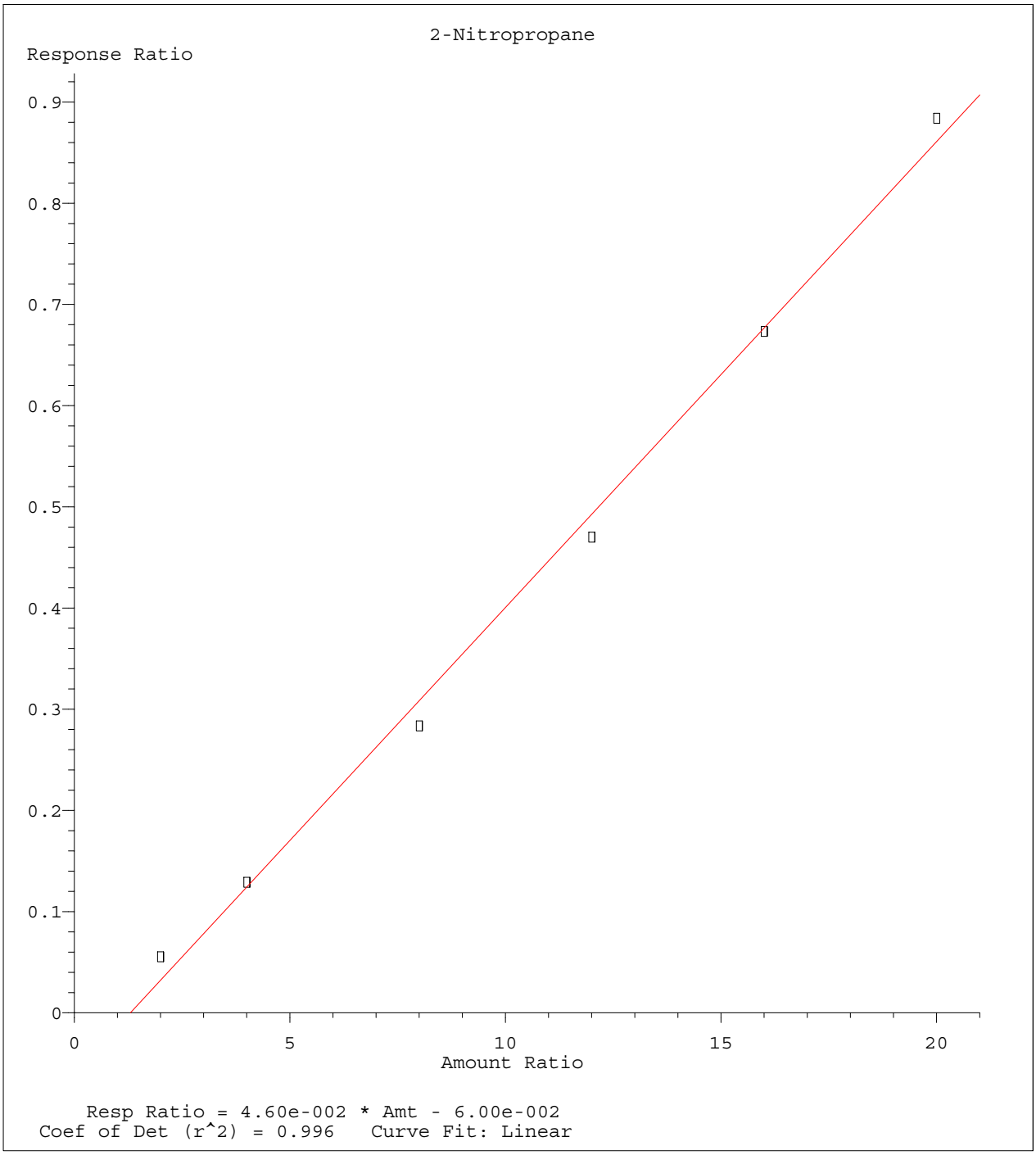
(#) = qualifier out of range (m) = manual integration
11M08242.D A9FOOWT.M Thu Aug 20 11:43:55 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08242.D Vial: 9
Acq On : 14 Jun 2015 13:42 Operator: TMB /DLW
Sample : WG527475-09 500ug/L STD8260 Inst : hpms11
Misc : 1,1 STD70883 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration





Method Name: C:\MSDCHEM\1\METHODS\A9FOOWT.M
Calibration Table Last Updated: Thu Aug 20 11:44:55 2015

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\061415\11M08245.D Vial: 12
Acq On : 14 Jun 2015 15:18 Operator: TMB /DLW
Sample : WG527475-10 100ug/L ALT STD8260 Inst : hpms11
Misc : 1,1 STD70514 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 15:40:10 2015 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

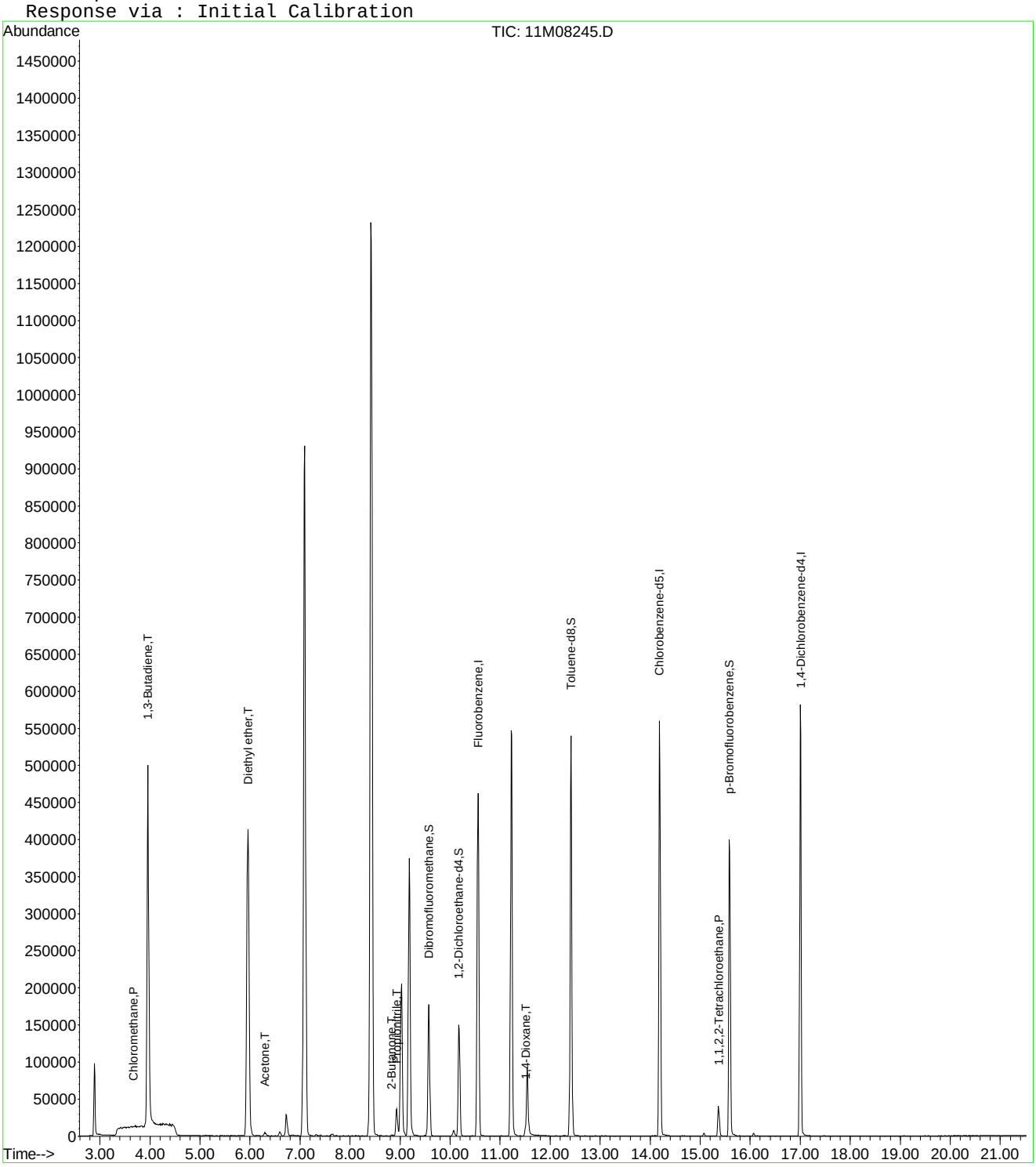
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.56	96	543635	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.19	117	396503	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.01	152	206025	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.57	111	140300	23.2496 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 93.00%		
43) 1,2-Dichloroethane-d4	10.17	65	129308	19.7285 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 78.92%#		
57) Toluene-d8	12.42	98	479748	28.6477 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 114.60%#		
78) p-Bromofluorobenzene	15.58	95	164471	24.9480 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.80%		
Target Compounds					Qvalue
3) Chloromethane	3.67	50	1708	0.1809 ug/L #	64
5) 1,3-Butadiene	3.96	54	337713	68.0129 ug/L	95
9) Diethyl ether	5.96	59	421860	68.0021 ug/L	82
13) Acetone	6.30	43	8473	5.2935 ug/L	79
29) 2-Butanone	8.83	43	2399	0.9217 ug/L #	77
30) Propionitrile	8.93	54	45537	55.4849 ug/L	96
49) 1,4-Dioxane	11.51	88	6417	143.4316 ug/L	93
77) 1,1,2,2-Tetrachloroethane	15.38	83	1792	0.4132 ug/L #	17

(#) = qualifier out of range (m) = manual integration
11M08245.D 8260WTR.M Sun Jun 14 15:40:11 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\061415\11M08245.D Vial: 12
Acq On : 14 Jun 2015 15:18 Operator: TMB /DLW
Sample : WG527475-10 100ug/L ALT STD8260 Inst : hpms11
Misc : 1,1 STD70514 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 15:40 2015 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11
Last Update : Sat Jun 13 12:38:34 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08245.D Vial: 12
Acq On : 14 Jun 2015 15:18 Operator: TMB /DLW
Sample : WG527475-10 100ug/L ALT STD8260 Inst : hpms11
Misc : 1,1 STD70514 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28:16 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.56	96	543635	25.00	ug/L	-0.03
12) Chlorobenzene-d5	14.19	117	396503	25.00	ug/L	-0.03
13) 1,4-Dichlorobenzene-d4	17.01	152	206025	25.00	ug/L	-0.02

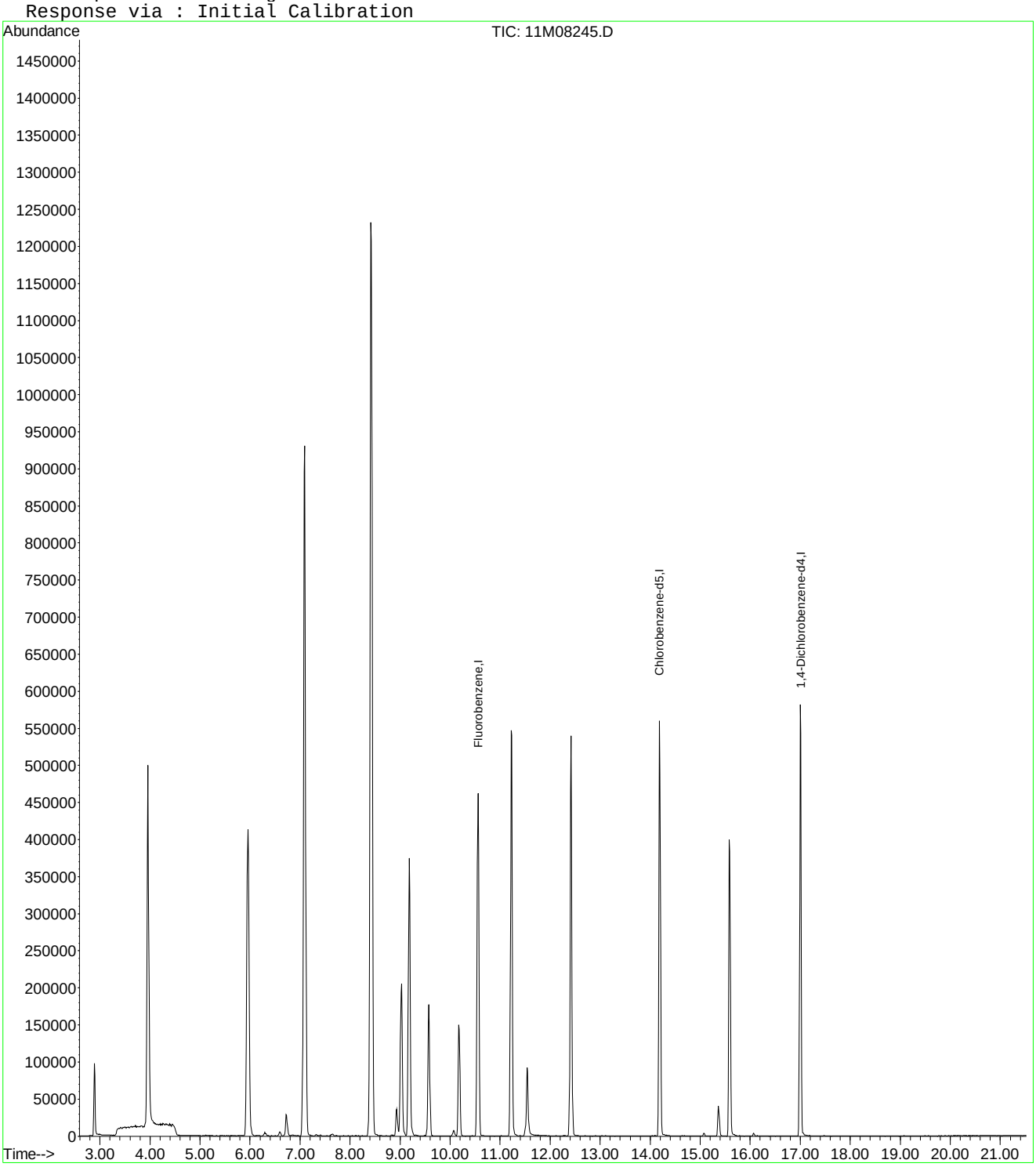
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
11M08245.D A9FOOWT.M Thu Aug 20 11:28:17 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08245.D Vial: 12
Acq On : 14 Jun 2015 15:18 Operator: TMB /DLW
Sample : WG527475-10 100ug/L ALT STD8260 Inst : hpms11
Misc : 1,1 STD70514 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:28 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:27:18 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08245.D Vial: 12
Acq On : 14 Jun 2015 15:18 Operator: TMB /DLW
Sample : WG527475-10 100ug/L ALT STD8260 Inst : hpms11
Misc : 1,1 STD70514 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43:56 2015 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

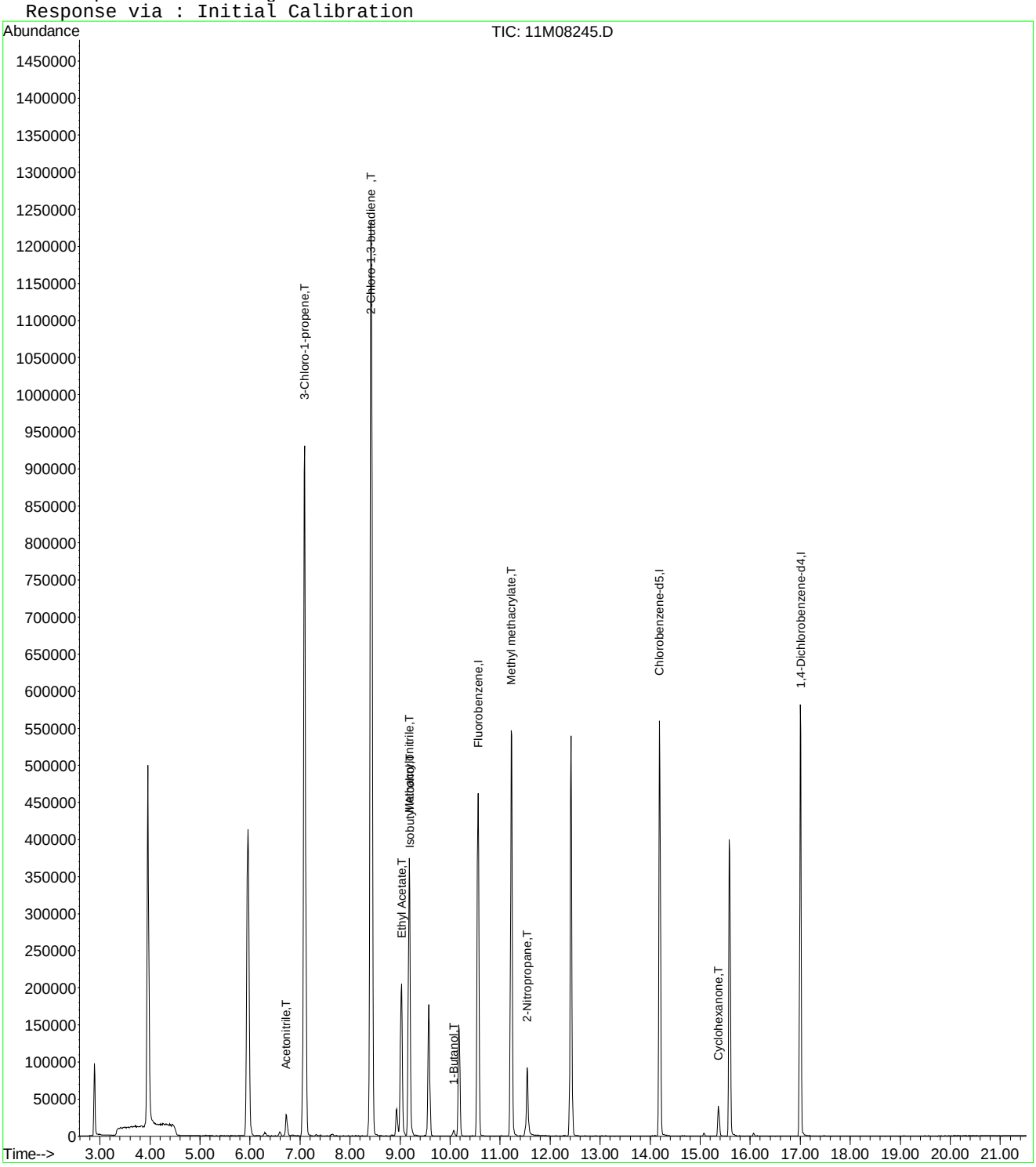
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.56	96	543635	25.00	ug/L		0.00
12) Chlorobenzene-d5	14.19	117	396503	25.00	ug/L		0.00
13) 1,4-Dichlorobenzene-d4	17.01	152	206025	25.00	ug/L		0.01
Target Compounds							Qvalue
2) Acetonitrile	6.72	41	38243	91.7199	ug/L		100
3) 3-Chloro-1-propene	7.09	41	808581	98.8244	ug/L		82
4) 2-Chloro-1,3-butadiene	8.42	53	1078924	109.8470	ug/L		94
5) Methacrylonitrile	9.18	41	233249	92.2348	ug/L		79
6) Isobutyl Alcohol	9.19	43	24110	185.2732	ug/L		90
7) 1-Butanol	10.07	56	6038	87.7140	ug/L	#	79
8) Cyclohexanone	15.36	55	22693	36.2928	ug/L		98
9) 2-Nitropropane	11.54	43	62961	95.4458	ug/L		82
10) Ethyl Acetate	9.03	43	328836	109.6369	ug/L	#	93
11) Methyl methacrylate	11.22	41	327033	93.7719	ug/L		87

(#) = qualifier out of range (m) = manual integration
11M08245.D A9FOOWT.M Thu Aug 20 11:43:56 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\061415\11M08245.D Vial: 12
Acq On : 14 Jun 2015 15:18 Operator: TMB /DLW
Sample : WG527475-10 100ug/L ALT STD8260 Inst : hpms11
Misc : 1,1 STD70514 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Aug 20 11:43 2015 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\061415\11M08245.D Vial: 12
Acq On : 14 Jun 2015 15:18 Operator: TMB /DLW
Sample : WG527475-10 100ug/L ALT STD8260 Inst : hpms11
Misc : 1,1 STD70514 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : Appendix IX (SOP:OVL MSV01) Water 061415 HPMS11
Last Update : Thu Aug 20 11:41:47 2015
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	92	0.00
2	T	Acetonitrile	100.0000	91.7199	8.3	92	0.00
3	T	3-Chloro-1-propene	100.0000	98.8244	1.2	90	0.00
4	T	2-Chloro-1,3-butadiene	100.0000	109.8470	-9.8	102	0.00
5	T	Methacrylonitrile	100.0000	92.2348	7.8	86	0.00
6	T	Isobutyl Alcohol	200.0000	185.2732	7.4	83	0.00
7	T	1-Butanol	100.0000	87.7140	12.3	78	0.00
8	T	Cyclohexanone	100.0000	36.2928	63.7	31	0.00
9	T	2-Nitropropane	100.0000	95.4458	4.6	82	0.00
10	T	Ethyl Acetate	100.0000	109.6369	-9.6	99	0.00
11	T	Methyl methacrylate	100.0000	93.7719	6.2	87	0.00
12	I	Chlorobenzene-d5	25.0000	25.0000	0.0	91	0.00
13	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	92	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M08245.D A9FOOWT.M Thu Aug 20 11:45:26 2015 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051316\11M11837.D Vial: 3
Acq On : 13 May 2016 14:40 Operator: JDS
Sample : WG568769-02 0.3ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04:20 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	538041	25.00	ug/L	-0.01
56) Chlorobenzene-d5	14.25	117	450050	25.00	ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.06	152	251600	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#		
43) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#		
57) Toluene-d8	12.47	98	210	0.0099	ug/L	-0.01
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.04%#		
78) p-Bromofluorobenzene	15.64	95	566	0.0689	ug/L	-0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.28%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	2475	0.3135	ug/L #	66
3) Chloromethane	3.72	50	4639	0.6471	ug/L	91
4) Vinyl Chloride	3.96	62	1882	0.3288	ug/L #	44
5) 1,3-Butadiene	4.01	54	1564	0.2900	ug/L #	19
6) Bromomethane	4.84	94	1717	0.4723	ug/L	83
7) Chloroethane	5.00	64	616	0.1589	ug/L #	45
8) Trichlorofluoromethane	5.49	101	3531	0.3330	ug/L	97
10) Isoprene	6.04	67	1746	0.2381	ug/L	92
12) 1,1,2-Trichloro-1,2,2-Trif	6.26	101	1344	0.2515	ug/L	96
13) Acetone	6.34	43	2389	1.4850	ug/L #	45
14) 1,1-Dichloroethene	6.56	61	3780	0.3817	ug/L	78
16) Dimethyl Sulfide	6.80	62	762	0.1697	ug/L	78
18) Methyl acetate	7.02	43	24685	4.4975	ug/L #	70
19) Methylene Chloride	7.31	84	1766	0.3184	ug/L	74
20) Carbon Disulfide	7.36	76	5848	0.3373	ug/L	92
22) Methyl Tert Butyl Ether	7.54	73	3068	0.2131	ug/L #	48
23) trans-1,2-Dichloroethene	7.75	96	1449	0.2556	ug/L	91
24) n-Hexane	7.82	57	3745	0.4031	ug/L #	73
26) Vinyl Acetate	8.30	43	2410	0.6995	ug/L #	78
27) 1,1-Dichloroethane	8.35	63	3312	0.2969	ug/L #	76
31) 2,2-Dichloropropane	9.10	77	2449	0.3040	ug/L #	42
32) cis-1,2-Dichloroethene	9.15	96	1729	0.2748	ug/L	96
33) Chloroform	9.35	83	3792	0.3639	ug/L	92
35) Bromochloromethane	9.56	130	948	0.2355	ug/L #	68
38) 1,1,1-Trichloroethane	9.85	97	3449	0.3423	ug/L #	79
39) Cyclohexane	9.88	56	3639	0.2986	ug/L #	84
40) 1,1-Dichloropropene	10.04	75	2365	0.3106	ug/L #	53
41) Carbon Tetrachloride	10.17	117	2613	0.2748	ug/L	87
44) 1,2-Dichloroethane	10.35	62	2493	0.2788	ug/L #	73
45) Benzene	10.38	78	7133	0.3275	ug/L	99
46) Trichloroethene	11.09	130	1973	0.2780	ug/L	93
47) Methylcyclohexane	11.17	83	2570	0.2986	ug/L	84
48) 1,2-Dichloropropane	11.29	63	1665	0.2692	ug/L	87
50) Bromodichloromethane	11.57	83	2418	0.2950	ug/L #	82
51) Dibromomethane	11.65	93	756	0.2331	ug/L	88
54) cis-1,3-Dichloropropene	12.17	75	1869	0.2166	ug/L #	82
55) Dimethyl Disulfide	12.42	79	1028	0.1910	ug/L	95
58) Toluene	12.57	91	7355	0.3156	ug/L	91
59) Ethyl Methacrylate	12.64	69	1041	0.1887	ug/L	88
60) trans-1,3-Dichloropropene	12.72	75	1951	0.2556	ug/L #	51

(#) = qualifier out of range (m) = manual integration
11M11837.D 8260WT.M Fri May 13 17:04:21 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11837.D Vial: 3
Acq On : 13 May 2016 14:40 Operator: JDS
Sample : WG568769-02 0.3ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04:20 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

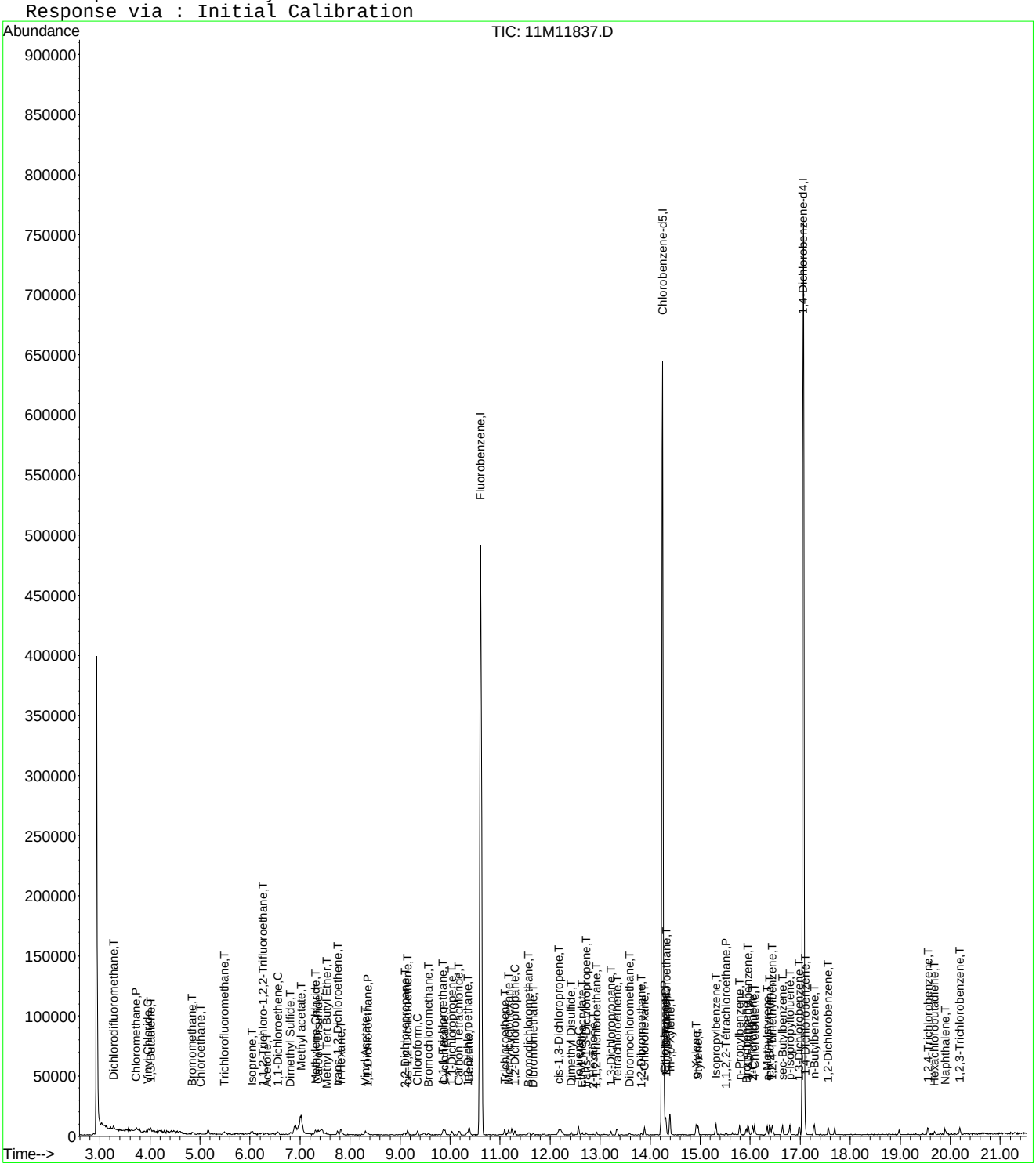
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
61)	1,1,2-Trichloroethane	12.92	97	1087	0.2492 ug/L		87
62)	2-Hexanone	12.86	43	687	0.1910 ug/L	#	29
63)	1,3-Dichloropropane	13.21	76	1673	0.2309 ug/L		94
64)	Tetrachloroethene	13.34	164	1703	0.3238 ug/L		94
65)	Dibromochloromethane	13.59	129	1515	0.2406 ug/L		92
66)	1,2-Dibromoethane	13.82	107	966	0.2181 ug/L		98
67)	1-Chlorohexane	13.89	91	2128	0.2784 ug/L		97
68)	Chlorobenzene	14.29	112	5248	0.3062 ug/L		99
69)	1,1,1,2-Tetrachloroethane	14.32	131	2025	0.3082 ug/L		98
70)	Ethylbenzene	14.31	106	2602	0.2992 ug/L		88
71)	m-,p-Xylene	14.40	106	6296	0.6083 ug/L		82
72)	o-Xylene	14.92	106	3032	0.2937 ug/L		95
73)	Styrene	14.95	104	4953	0.2828 ug/L		95
75)	Isopropylbenzene	15.31	105	7848	0.3006 ug/L		93
77)	1,1,2,2-Tetrachloroethane	15.52	83	1145	0.2759 ug/L		68
81)	n-Propylbenzene	15.79	91	9421	0.3332 ug/L		94
82)	Bromobenzene	15.92	156	2002	0.2551 ug/L		66
83)	1,3,5-Trimethylbenzene	15.95	105	6742	0.3138 ug/L		91
84)	2-Chlorotoluene	16.05	91	6735	0.3228 ug/L		96
85)	4-Chlorotoluene	16.09	91	6023	0.3518 ug/L		99
86)	a-Methylstyrene	16.34	118	2850	0.2387 ug/L		95
87)	tert-Butylbenzene	16.39	134	1197	0.2539 ug/L		64
88)	1,2,4-Trimethylbenzene	16.44	105	6992	0.3180 ug/L		88
89)	sec-Butylbenzene	16.65	105	8335	0.3278 ug/L		97
90)	p-Isopropyltoluene	16.79	119	7094	0.3065 ug/L		96
91)	1,3-Dichlorobenzene	16.98	146	4505	0.3090 ug/L		96
92)	1,4-Dichlorobenzene	17.10	146	4475	0.3006 ug/L	#	1
93)	n-Butylbenzene	17.28	91	7076	0.3396 ug/L	#	93
94)	1,2-Dichlorobenzene	17.56	146	4016	0.2922 ug/L		100
96)	1,2,4-Trichlorobenzene	19.55	180	2964	0.2902 ug/L		99
97)	Hexachlorobutadiene	19.69	225	1160	0.2796 ug/L	#	71
98)	Naphthalene	19.90	128	4679	0.2394 ug/L	#	93
99)	1,2,3-Trichlorobenzene	20.19	180	2578	0.2696 ug/L		87

(#) = qualifier out of range (m) = manual integration
11M11837.D 8260WT.M Fri May 13 17:04:21 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051316\11M11837.D Vial: 3
Acq On : 13 May 2016 14:40 Operator: JDS
Sample : WG568769-02 0.3ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051316\11M11837.D Vial: 3
Acq On : 13 May 2016 14:40 Operator: JDS
Sample : WG568769-02 0.3ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:40:10 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	-1.0000	0.2936	0.0	0	0.00
3	P	Chloromethane	-1.0000	0.6871	0.0	0	0.00
4	C	Vinyl Chloride	-1.0000	0.3357	0.0	0	0.00
5	T	1,3-Butadiene	-1.0000	0.2805	0.0	0	0.01
6	T	Bromomethane	-1.0000	0.4454	0.0	0	-0.01
7	T	Chloroethane	-1.0000	0.1710	0.0	0	0.00
8	T	Trichlorofluoromethane	-1.0000	0.3160	0.0	0	0.01
9	T	Diethyl ether	-1.0000	0.0000	0.0	0	-6.01#
10	T	Isoprene	-1.0000	0.2535	0.0	0	0.00
11	T	Acrolein	-1.0000	0.0000	0.0	0	-6.23#
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.0000	0.2478	0.0	0	0.01
13	T	Acetone	-1.0000	1.8699	0.0	0	0.00
14	C	1,1-Dichloroethene	-1.0000	0.3838	0.0	0	0.00
15	T	Tert-Butyl Alcohol	-1.0000	0.0000	0.0	0	-6.66#
16	T	Dimethyl Sulfide	-1.0000	0.1937	0.0	0	-0.01
17	T	Iodomethane	-1.0000	0.0000	0.0	0	-7.06#
18	T	Methyl acetate	-1.0000	5.1442	0.0	0	-0.04
19	T	Methylene Chloride	-1.0000	0.3464	0.0	0	0.00
20	T	Carbon Disulfide	-1.0000	0.3546	0.0	0	0.00
21	T	Acrylonitrile	-1.0000	0.0000	0.0	0	-7.49#
22	T	Methyl Tert Butyl Ether	-1.0000	0.2413	0.0	0	0.02
23	T	trans-1,2-Dichloroethene	-1.0000	0.2658	0.0	0	0.01
24	T	n-Hexane	-1.0000	0.4125	0.0	0	0.00
25	T	Diisopropyl ether	-1.0000	0.0083	0.0	0	0.08
26	T	Vinyl Acetate	-1.0000	2.6933	0.0	0	-0.01
27	P	1,1-Dichloroethane	-1.0000	0.3028	0.0	0	0.01
28	T	Ethyl-Tert-Butyl ether	-1.0000	0.0000	0.0	0	-8.70#
29	T	2-Butanone	-1.0000	0.0000	0.0	0	-8.87#
30	T	Propionitrile	-1.0000	0.0000	0.0	0	-8.97#
31	T	2,2-Dichloropropane	-1.0000	0.2862	0.0	0	0.01
32	T	cis-1,2-Dichloroethene	-1.0000	0.2877	0.0	0	0.00
33	C	Chloroform	0.3000	0.3530	-17.7	100	0.00
34	T	1-Bromopropane	-1.0000	0.0000	0.0	0	-9.48#
35	T	Bromochloromethane	-1.0000	0.2656	0.0	0	-0.01
36	T	Tetrahydrofuran	-1.0000	0.0000	0.0	0	-9.60#
37	S	Dibromofluoromethane	-1.0000	0.0000	0.0	0	-9.63#
38	T	1,1,1-Trichloroethane	-1.0000	0.3263	0.0	0	0.00
39	T	Cyclohexane	-1.0000	0.3159	0.0	0	0.00
40	T	1,1-Dichloropropene	-1.0000	0.3134	0.0	0	0.00
41	T	Carbon Tetrachloride	-1.0000	0.2532	0.0	0	-0.01
42	T	Tert-Amyl-Methyl ether	-1.0000	0.0152	0.0	0	-0.09
43	S	1,2-Dichloroethane-d4	-1.0000	0.0000	0.0	0	-10.23#
44	T	1,2-Dichloroethane	-1.0000	0.2858	0.0	0	0.01
45	T	Benzene	-1.0000	0.3452	0.0	0	0.00
46	T	Trichloroethene	-1.0000	0.2938	0.0	0	0.00
47	T	Methylcyclohexane	-1.0000	0.3101	0.0	0	0.00
48	C	1,2-Dichloropropane	-1.0000	0.2911	0.0	0	0.00
49	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-11.55#
50	T	Bromodichloromethane	-1.0000	0.3012	0.0	0	0.00
51	T	Dibromomethane	-1.0000	0.2537	0.0	0	0.00
52	T	2-Chloroethyl Vinyl Ether	-1.0000	0.0000	0.0	0	-11.84#
53	T	4-Methyl-2-Pentanone	-1.0000	0.0000	0.0	0	-11.87#
54	T	cis-1,3-Dichloropropene	-1.0000	0.2327	0.0	0	0.00

(#) = Out of Range
11M11837.D 8260WT.M Sat May 14 18:41:07 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11837.D Vial: 3
Acq On : 13 May 2016 14:40 Operator: JDS
Sample : WG568769-02 0.3ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:40:10 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	Dimethyl Disulfide	-1.0000	0.2127	0.0	0	0.00
56	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
57	S	Toluene-d8	-1.0000	0.0107	0.0	0	0.00
58	C	Toluene	-1.0000	0.3228	0.0	0	0.01
59	T	Ethyl Methacrylate	-1.0000	0.2140	0.0	0	-0.01
60	T	trans-1,3-Dichloropropene	-1.0000	0.2668	0.0	0	-0.01
61	T	1,1,2-Trichloroethane	-1.0000	0.2691	0.0	0	-0.01
62	T	2-Hexanone	-1.0000	0.2315	0.0	0	0.00
63	T	1,3-Dichloropropane	-1.0000	0.2579	0.0	0	0.00
64	T	Tetrachloroethene	-1.0000	0.3214	0.0	0	0.00
65	T	Dibromochloromethane	-1.0000	0.2459	0.0	0	0.00
66	T	1,2-Dibromoethane	-1.0000	0.2387	0.0	0	0.00
67	T	1-Chlorohexane	-1.0000	0.2833	0.0	0	0.00
68	P	Chlorobenzene	-1.0000	0.3144	0.0	0	0.00
69	T	1,1,1,2-Tetrachloroethane	-1.0000	0.2998	0.0	0	0.00
70	C	Ethylbenzene	-1.0000	0.3040	0.0	0	0.00
71	T	m-,p-Xylene	-1.0000	0.6051	0.0	0	0.01
72	T	o-Xylene	-1.0000	0.2994	0.0	0	0.00
73	T	Styrene	-1.0000	0.2961	0.0	0	0.00
74	P	Bromoform	-1.0000	0.0798	0.0	0	-0.01
75	T	Isopropylbenzene	-1.0000	0.2931	0.0	0	0.00
76	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
77	P	1,1,2,2-Tetrachloroethane	-1.0000	0.2922	0.0	0	0.00
78	S	p-Bromofluorobenzene	-1.0000	0.0730	0.0	0	0.00
79	T	1,2,3-Trichloropropane	-1.0000	0.0000	0.0	0	-15.70#
80	T	trans-1,4-Dichloro-2-Butene	-1.0000	0.0000	0.0	0	-15.74#
81	T	n-Propylbenzene	-1.0000	0.3233	0.0	0	0.00
82	T	Bromobenzene	0.3000	0.2618	12.7	100	0.00
83	T	1,3,5-Trimethylbenzene	-1.0000	0.3032	0.0	0	-0.01
84	T	2-Chlorotoluene	-1.0000	0.3300	0.0	0	0.00
85	T	4-Chlorotoluene	-1.0000	0.3295	0.0	0	0.00
86	T	a-Methylstyrene	-1.0000	0.2430	0.0	0	0.00
87	T	tert-Butylbenzene	-1.0000	0.2541	0.0	0	-0.01
88	T	1,2,4-Trimethylbenzene	-1.0000	0.3088	0.0	0	0.00
89	T	sec-Butylbenzene	-1.0000	0.3122	0.0	0	0.00
90	T	p-Isopropyltoluene	-1.0000	0.2893	0.0	0	0.00
91	T	1,3-Dichlorobenzene	-1.0000	0.3051	0.0	0	0.00
92	T	1,4-Dichlorobenzene	0.3000	0.2990	0.3	100	0.00
93	T	n-Butylbenzene	-1.0000	0.3274	0.0	0	0.00
94	T	1,2-Dichlorobenzene	0.3000	0.2985	0.5	100	-0.01
95	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.0000	0.0	0	-18.49#
96	T	1,2,4-Trichlorobenzene	-1.0000	0.3011	0.0	0	0.00
97	T	Hexachlorobutadiene	-1.0000	0.2675	0.0	0	0.00
98	T	Naphthalene	-1.0000	0.2561	0.0	0	0.00
99	T	1,2,3-Trichlorobenzene	0.3000	0.2854	4.9	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M11837.D 8260WT.M Sat May 14 18:41:07 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051316\11M11838.D Vial: 4
Acq On : 13 May 2016 15:12 Operator: JDS
Sample : WG568769-03 0.4ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04:23 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	515473	25.00	ug/L	-0.01
56) Chlorobenzene-d5	14.25	117	435266	25.00	ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.06	152	244818	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#		
43) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#		
57) Toluene-d8	0.00	98	0	0.0000	ug/L	
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#		
78) p-Bromofluorobenzene	15.64	95	236	0.0295	ug/L	-0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.12%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	2765	0.3656	ug/L #	66
3) Chloromethane	3.72	50	4021	0.5854	ug/L #	77
4) Vinyl Chloride	3.96	62	2267	0.4134	ug/L #	64
5) 1,3-Butadiene	4.01	54	2044	0.3956	ug/L #	18
6) Bromomethane	4.85	94	1571	0.4511	ug/L	89
7) Chloroethane	5.01	64	1496	0.4029	ug/L #	45
8) Trichlorofluoromethane	5.49	101	4241	0.4175	ug/L	96
10) Isoprene	6.03	67	2394	0.3408	ug/L	90
12) 1,1,2-Trichloro-1,2,2-Trif	6.28	101	1439	0.2811	ug/L #	23
13) Acetone	6.33	43	1125	0.7299	ug/L #	45
14) 1,1-Dichloroethene	6.56	61	3786	0.3990	ug/L	77
16) Dimethyl Sulfide	6.80	62	1622	0.3769	ug/L	59
18) Methyl acetate	7.01	43	21364	4.0629	ug/L #	70
19) Methylene Chloride	7.32	84	2266	0.4265	ug/L	97
20) Carbon Disulfide	7.35	76	6628	0.3991	ug/L #	82
22) Methyl Tert Butyl Ether	7.52	73	4808	0.3486	ug/L #	74
23) trans-1,2-Dichloroethene	7.74	96	2372	0.4368	ug/L	93
24) n-Hexane	7.83	57	4212	0.4732	ug/L #	73
26) Vinyl Acetate	8.34	43	434	0.1315	ug/L #	78
27) 1,1-Dichloroethane	8.34	63	3822	0.3576	ug/L #	89
29) 2-Butanone	8.88	43	484	0.2099	ug/L #	60
31) 2,2-Dichloropropane	9.09	77	2680	0.3472	ug/L #	55
32) cis-1,2-Dichloroethene	9.15	96	2277	0.3777	ug/L	91
33) Chloroform	9.35	83	3981	0.3988	ug/L	89
35) Bromochloromethane	9.57	130	952	0.2468	ug/L	57
36) Tetrahydrofuran	9.59	42	212	0.1340	ug/L #	46
38) 1,1,1-Trichloroethane	9.85	97	3917	0.4058	ug/L #	84
39) Cyclohexane	9.88	56	3935	0.3371	ug/L #	80
40) 1,1-Dichloropropene	10.04	75	2817	0.3862	ug/L	82
41) Carbon Tetrachloride	10.18	117	3373	0.3702	ug/L #	88
44) 1,2-Dichloroethane	10.35	62	3201	0.3737	ug/L #	78
45) Benzene	10.39	78	8729	0.4184	ug/L	90
46) Trichloroethene	11.08	130	2537	0.3731	ug/L	93
47) Methylcyclohexane	11.17	83	2742	0.3325	ug/L	90
48) 1,2-Dichloropropane	11.29	63	2133	0.3600	ug/L	84
50) Bromodichloromethane	11.58	83	2857	0.3638	ug/L #	84
51) Dibromomethane	11.65	93	972	0.3128	ug/L	81
52) 2-Chloroethyl Vinyl Ether	11.85	63	791	0.2560	ug/L #	50
54) cis-1,3-Dichloropropene	12.17	75	2689	0.3253	ug/L	99
55) Dimethyl Disulfide	12.42	79	1113	0.2158	ug/L	74

(#) = qualifier out of range (m) = manual integration
11M11838.D 8260WT.M Fri May 13 17:04:23 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11838.D Vial: 4
Acq On : 13 May 2016 15:12 Operator: JDS
Sample : WG568769-03 0.4ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04:23 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

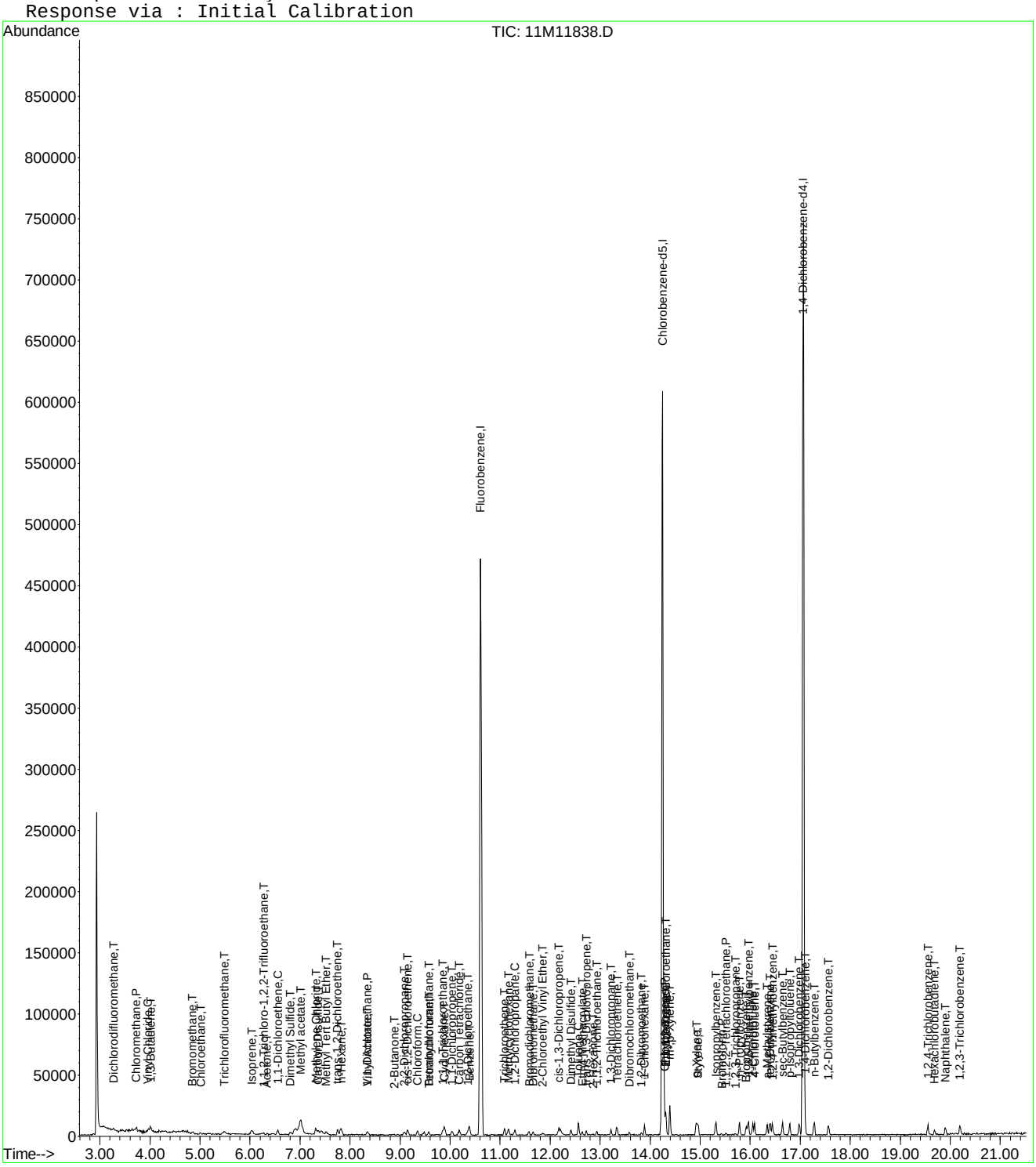
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
58)	Toluene	12.56	91	9113	0.4043	ug/L		99
59)	Ethyl Methacrylate	12.65	69	1556	0.2916	ug/L		96
60)	trans-1,3-Dichloropropene	12.73	75	2303	0.3119	ug/L		86
61)	1,1,2-Trichloroethane	12.94	97	1549	0.3672	ug/L		85
62)	2-Hexanone	12.86	43	840	0.2415	ug/L	#	11
63)	1,3-Dichloropropane	13.21	76	2345	0.3346	ug/L		82
64)	Tetrachloroethene	13.34	164	1905	0.3745	ug/L		88
65)	Dibromochloromethane	13.59	129	1972	0.3238	ug/L		89
66)	1,2-Dibromoethane	13.82	107	1617	0.3776	ug/L		69
67)	1-Chlorohexane	13.89	91	2578	0.3487	ug/L		77
68)	Chlorobenzene	14.29	112	6458	0.3896	ug/L		93
69)	1,1,1,2-Tetrachloroethane	14.31	131	2374	0.3736	ug/L		98
70)	Ethylbenzene	14.31	106	3158	0.3754	ug/L		79
71)	m-,p-Xylene	14.39	106	8621	0.8613	ug/L		93
72)	o-Xylene	14.93	106	3752	0.3758	ug/L		96
73)	Styrene	14.95	104	6027	0.3558	ug/L		90
74)	Bromoform	15.44	173	931	0.2454	ug/L		87
75)	Isopropylbenzene	15.31	105	10551	0.4179	ug/L		95
77)	1,1,2,2-Tetrachloroethane	15.52	83	1129	0.2796	ug/L		84
79)	1,2,3-Trichloropropane	15.71	110	200	0.1341	ug/L	#	28
81)	n-Propylbenzene	15.79	91	11244	0.4087	ug/L		98
82)	Bromobenzene	15.91	156	3048	0.3991	ug/L		95
83)	1,3,5-Trimethylbenzene	15.96	105	9158	0.4381	ug/L		92
84)	2-Chlorotoluene	16.05	91	8455	0.4164	ug/L		96
85)	4-Chlorotoluene	16.09	91	6979	0.4189	ug/L		92
86)	a-Methylstyrene	16.34	118	4052	0.3488	ug/L		74
87)	tert-Butylbenzene	16.40	134	1479	0.3224	ug/L		63
88)	1,2,4-Trimethylbenzene	16.45	105	8457	0.3953	ug/L		95
89)	sec-Butylbenzene	16.65	105	10479	0.4236	ug/L		93
90)	p-Isopropyltoluene	16.79	119	9613	0.4269	ug/L		93
91)	1,3-Dichlorobenzene	16.98	146	5826	0.4107	ug/L		93
92)	1,4-Dichlorobenzene	17.10	146	6273	0.4331	ug/L	#	74
93)	n-Butylbenzene	17.28	91	8021	0.3956	ug/L	#	91
94)	1,2-Dichlorobenzene	17.57	146	4937	0.3691	ug/L		97
96)	1,2,4-Trichlorobenzene	19.55	180	3632	0.3655	ug/L		95
97)	Hexachlorobutadiene	19.69	225	1539	0.3812	ug/L		96
98)	Naphthalene	19.90	128	7383	0.3882	ug/L		97
99)	1,2,3-Trichlorobenzene	20.19	180	3748	0.4028	ug/L		84

(#) = qualifier out of range (m) = manual integration
11M11838.D 8260WT.M Fri May 13 17:04:24 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051316\11M11838.D Vial: 4
Acq On : 13 May 2016 15:12 Operator: JDS
Sample : WG568769-03 0.4ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051316\11M11839.D Vial: 5
Acq On : 13 May 2016 15:43 Operator: JDS
Sample : WG568769-04 1.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04:25 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	523425	25.00	ug/L	-0.01
56) Chlorobenzene-d5	14.25	117	440574	25.00	ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.06	152	249989	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.63	111	1729	0.2910	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	1.16%#		
43) 1,2-Dichloroethane-d4	10.23	65	3301	0.4585	ug/L	-0.01
Spiked Amount 25.000	Range 80 - 120		Recovery =	1.84%#		
57) Toluene-d8	12.47	98	9307	0.4494	ug/L	-0.01
Spiked Amount 25.000	Range 88 - 110		Recovery =	1.80%#		
78) p-Bromofluorobenzene	15.64	95	4047	0.4956	ug/L	-0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.00%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	7215	0.9394	ug/L	98
3) Chloromethane	3.72	50	7292	1.0455	ug/L	80
4) Vinyl Chloride	3.96	62	5040	0.9051	ug/L	92
5) 1,3-Butadiene	4.02	54	5876	1.1198	ug/L #	76
6) Bromomethane	4.85	94	3488	0.9862	ug/L	94
7) Chloroethane	4.99	64	3425	0.9083	ug/L #	57
8) Trichlorofluoromethane	5.49	101	10960	1.0625	ug/L	95
9) Diethyl ether	6.01	59	19830	4.2253	ug/L	90
10) Isoprene	6.04	67	6121	0.8582	ug/L	94
11) Acrolein	6.25	56	697	1.2730	ug/L	65
12) 1,1,2-Trichloro-1,2,2-Trif	6.27	101	5456	1.0497	ug/L	90
13) Acetone	6.34	43	1782	1.1386	ug/L #	45
14) 1,1-Dichloroethene	6.55	61	9456	0.9814	ug/L	91
15) Tert-Butyl Alcohol	6.67	59	2848	6.8484	ug/L #	67
16) Dimethyl Sulfide	6.80	62	3631	0.8310	ug/L	93
18) Methyl acetate	7.01	43	20953	3.9242	ug/L #	70
19) Methylene Chloride	7.31	84	5001	0.9270	ug/L	97
20) Carbon Disulfide	7.36	76	15438	0.9154	ug/L	99
21) Acrylonitrile	7.50	53	3780	1.8795	ug/L	89
22) Methyl Tert Butyl Ether	7.53	73	11891	0.8490	ug/L	90
23) trans-1,2-Dichloroethene	7.75	96	4815	0.8732	ug/L	95
24) n-Hexane	7.82	57	9213	1.0194	ug/L #	81
25) Diisopropyl ether	8.15	45	108233	4.5267	ug/L	99
26) Vinyl Acetate	8.31	43	1723	0.5141	ug/L #	78
27) 1,1-Dichloroethane	8.34	63	10818	0.9968	ug/L	95
28) Ethyl-Tert-Butyl ether	8.70	59	85288	4.3548	ug/L	99
29) 2-Butanone	8.88	43	1368	0.5844	ug/L #	60
30) Propionitrile	8.99	54	2406	3.5185	ug/L #	60
31) 2,2-Dichloropropane	9.09	77	7787	0.9935	ug/L	90
32) cis-1,2-Dichloroethene	9.15	96	5567	0.9095	ug/L	94
33) Chloroform	9.35	83	10278	1.0139	ug/L	96
34) 1-Bromopropane	9.48	122	295	0.2934	ug/L	49
35) Bromochloromethane	9.57	130	2941	0.7509	ug/L	88
36) Tetrahydrofuran	9.60	42	7790	4.8493	ug/L	92
38) 1,1,1-Trichloroethane	9.85	97	10000	1.0202	ug/L #	90
39) Cyclohexane	9.88	56	10164	0.8574	ug/L	98
40) 1,1-Dichloropropene	10.04	75	7321	0.9884	ug/L	92
41) Carbon Tetrachloride	10.18	117	9558	1.0331	ug/L	98
42) Tert-Amyl-Methyl ether	10.13	73	59107	4.2417	ug/L	97
44) 1,2-Dichloroethane	10.34	62	8181	0.9406	ug/L	99

(#) = qualifier out of range (m) = manual integration
11M11839.D 8260WT.M Fri May 13 17:04:25 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11839.D Vial: 5
Acq On : 13 May 2016 15:43 Operator: JDS
Sample : WG568769-04 1.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04:25 2016 Quant Results File: 8260WT.RES

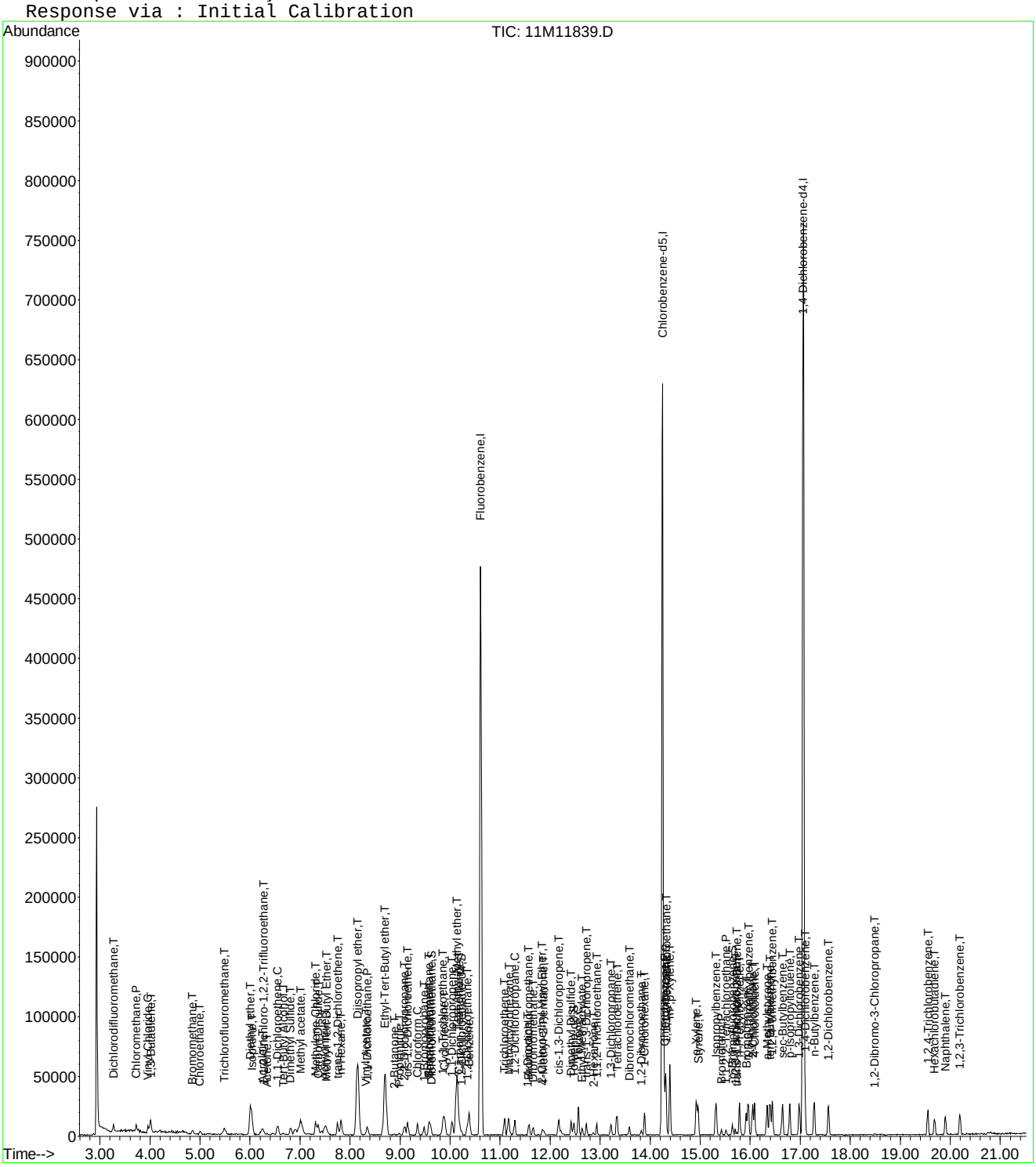
Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
45)	Benzene	10.38	78	19924	0.9404 ug/L		95
46)	Trichloroethene	11.08	130	6636	0.9611 ug/L		92
47)	Methylcyclohexane	11.18	83	7740	0.9243 ug/L		94
48)	1,2-Dichloropropane	11.29	63	5477	0.9103 ug/L		99
49)	1,4-Dioxane	11.55	88	187	5.1264 ug/L	#	10
50)	Bromodichloromethane	11.57	83	7238	0.9076 ug/L		94
51)	Dibromomethane	11.65	93	2839	0.8997 ug/L		97
52)	2-Chloroethyl Vinyl Ether	11.84	63	1934	0.6164 ug/L	#	72
53)	4-Methyl-2-Pentanone	11.87	58	1016	0.5282 ug/L	#	42
54)	cis-1,3-Dichloropropene	12.17	75	7078	0.8432 ug/L		99
55)	Dimethyl Disulfide	12.42	79	3514	0.6710 ug/L		93
58)	Toluene	12.56	91	22074	0.9676 ug/L		96
59)	Ethyl Methacrylate	12.64	69	4130	0.7646 ug/L		88
60)	trans-1,3-Dichloropropene	12.73	75	5897	0.7891 ug/L		90
61)	1,1,2-Trichloroethane	12.94	97	3547	0.8307 ug/L		96
62)	2-Hexanone	12.87	43	2461	0.6990 ug/L	#	63
63)	1,3-Dichloropropane	13.21	76	5965	0.8410 ug/L		87
64)	Tetrachloroethene	13.34	164	5050	0.9809 ug/L		94
65)	Dibromochloromethane	13.59	129	5237	0.8497 ug/L		90
66)	1,2-Dibromoethane	13.82	107	3214	0.7414 ug/L		91
67)	1-Chlorohexane	13.89	91	7025	0.9387 ug/L		91
68)	Chlorobenzene	14.29	112	16160	0.9630 ug/L		95
69)	1,1,1,2-Tetrachloroethane	14.32	131	6361	0.9889 ug/L		97
70)	Ethylbenzene	14.31	106	8050	0.9455 ug/L		93
71)	m-,p-Xylene	14.39	106	20545	2.0278 ug/L		95
72)	o-Xylene	14.92	106	9683	0.9581 ug/L		96
73)	Styrene	14.96	104	14946	0.8716 ug/L		98
74)	Bromoform	15.43	173	3024	0.7876 ug/L		97
75)	Isopropylbenzene	15.31	105	25656	1.0039 ug/L		92
77)	1,1,2,2-Tetrachloroethane	15.52	83	3569	0.8655 ug/L		89
79)	1,2,3-Trichloropropane	15.71	110	872	0.5724 ug/L		84
80)	trans-1,4-Dichloro-2-Buten	15.74	53	1048	0.6163 ug/L	#	44
81)	n-Propylbenzene	15.79	91	27998	0.9967 ug/L		98
82)	Bromobenzene	15.92	156	8101	1.0388 ug/L		89
83)	1,3,5-Trimethylbenzene	15.96	105	20563	0.9633 ug/L		98
84)	2-Chlorotoluene	16.05	91	20962	1.0111 ug/L		96
85)	4-Chlorotoluene	16.09	91	17553	1.0318 ug/L		100
86)	a-Methylstyrene	16.34	118	10002	0.8431 ug/L		97
87)	tert-Butylbenzene	16.40	134	4396	0.9384 ug/L		84
88)	1,2,4-Trimethylbenzene	16.44	105	21945	1.0045 ug/L		96
89)	sec-Butylbenzene	16.65	105	25927	1.0263 ug/L		100
90)	p-Isopropyltoluene	16.79	119	22467	0.9771 ug/L		96
91)	1,3-Dichlorobenzene	16.98	146	14883	1.0274 ug/L		96
92)	1,4-Dichlorobenzene	17.10	146	15106	1.0213 ug/L	#	67
93)	n-Butylbenzene	17.28	91	20991	1.0139 ug/L		98
94)	1,2-Dichlorobenzene	17.57	146	13331	0.9762 ug/L		99
95)	1,2-Dibromo-3-Chloropropan	18.49	75	493	0.5750 ug/L		75
96)	1,2,4-Trichlorobenzene	19.55	180	9030	0.8899 ug/L		96
97)	Hexachlorobutadiene	19.69	225	3810	0.9242 ug/L		95
98)	Naphthalene	19.90	128	16333	0.8410 ug/L		99
99)	1,2,3-Trichlorobenzene	20.19	180	8645	0.9098 ug/L		88

(#) = qualifier out of range (m) = manual integration
11M11839.D 8260WT.M Fri May 13 17:04:25 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051316\11M11839.D Vial: 5
Acq On : 13 May 2016 15:43 Operator: JDS
Sample : WG568769-04 1.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051316\11M11839.D Vial: 5
Acq On : 13 May 2016 15:43 Operator: JDS
Sample : WG568769-04 1.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:40:10 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	1.0000	0.8798	12.0	100	0.00
3	P	Chloromethane	1.0000	1.1102	-11.0	100	0.00
4	C	Vinyl Chloride	1.0000	0.9240	7.6	100	0.00
5	T	1,3-Butadiene	-1.0000	1.0834	0.0	100	0.02
6	T	Bromomethane	1.0000	0.9301	7.0	100	0.00
7	T	Chloroethane	1.0000	0.9773	2.3	100	-0.01
8	T	Trichlorofluoromethane	1.0000	1.0081	-0.8	100	0.01
9	T	Diethyl ether	5.0000	4.9318	1.4	100	0.00
10	T	Isoprene	-1.0000	0.9134	0.0	100	0.00
11	T	Acrolein	2.5000	2.7854	-11.4	100	0.01
12	T	1,1,2-Trichloro-1,2,2-Trifl	1.0000	1.0342	-3.4	100	0.02
13	T	Acetone	-1.0000	1.4337	0.0	0	0.00
14	C	1,1-Dichloroethene	1.0000	0.9868	1.3	100	-0.01
15	T	Tert-Butyl Alcohol	10.0000	8.2841	17.2	100	0.01
16	T	Dimethyl Sulfide	-1.0000	0.9488	0.0	100	-0.01
17	T	Iodomethane	-1.0000	2.2962	0.0	0	0.01
18	T	Methyl acetate	-1.0000	4.2835	0.0	0	-0.05
19	T	Methylene Chloride	1.0000	1.0084	-0.8	100	0.00
20	T	Carbon Disulfide	1.0000	0.9624	3.8	100	0.00
21	T	Acrylonitrile	2.5000	2.2683	9.3	100	0.01
22	T	Methyl Tert Butyl Ether	1.0000	0.9614	3.9	100	0.01
23	T	trans-1,2-Dichloroethene	1.0000	0.9079	9.2	100	0.01
24	T	n-Hexane	-1.0000	1.0430	0.0	100	0.00
25	T	Diisopropyl ether	5.0000	4.9106	1.8	100	0.00
26	T	Vinyl Acetate	-1.0000	2.6242	0.0	0	0.00
27	P	1,1-Dichloroethane	1.0000	1.0166	-1.7	100	0.00
28	T	Ethyl-Tert-Butyl ether	5.0000	4.7543	4.9	100	0.00
29	T	2-Butanone	-1.0000	0.7280	0.0	0	0.01
30	T	Propionitrile	5.0000	4.3718	12.6	100	0.01
31	T	2,2-Dichloropropane	1.0000	0.9353	6.5	100	0.00
32	T	cis-1,2-Dichloroethene	1.0000	0.9520	4.8	100	0.00
33	C	Chloroform	1.0000	0.9836	1.6	100	0.00
34	T	1-Bromopropane	1.0000	0.9106	8.9	100	0.00
35	T	Bromochloromethane	1.0000	0.8469	15.3	100	0.00
36	T	Tetrahydrofuran	5.0000	5.8710	-17.4	100	0.00
37	S	Dibromofluoromethane	-1.0000	0.3018	0.0	100	0.00
38	T	1,1,1-Trichloroethane	1.0000	0.9725	2.8	100	0.00
39	T	Cyclohexane	1.0000	0.9069	9.3	100	0.00
40	T	1,1-Dichloropropene	1.0000	0.9971	0.3	100	0.00
41	T	Carbon Tetrachloride	1.0000	0.9518	4.8	100	0.00
42	T	Tert-Amyl-Methyl ether	5.0000	4.7417	5.2	100	0.00
43	S	1,2-Dichloroethane-d4	0.5000	0.5054	-1.1	100	0.00
44	T	1,2-Dichloroethane	1.0000	0.9639	3.6	100	0.00
45	T	Benzene	1.0000	0.9912	0.9	100	0.00
46	T	Trichloroethene	1.0000	1.0157	-1.6	100	-0.01
47	T	Methylcyclohexane	1.0000	0.9600	4.0	100	0.01
48	C	1,2-Dichloropropane	1.0000	0.9844	1.6	100	0.00
49	T	1,4-Dioxane	-1.0000	28.5532	0.0	0	0.00
50	T	Bromodichloromethane	1.0000	0.9266	7.3	100	0.00
51	T	Dibromomethane	1.0000	0.9792	2.1	100	0.00
52	T	2-Chloroethyl Vinyl Ether	-1.0000	0.7053	0.0	100	0.00
53	T	4-Methyl-2-Pentanone	-1.0000	0.6569	0.0	0	0.00
54	T	cis-1,3-Dichloropropene	1.0000	0.9060	9.4	100	0.00

(#) = Out of Range
11M11839.D 8260WT.M Sat May 14 18:41:49 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11839.D Vial: 5
Acq On : 13 May 2016 15:43 Operator: JDS
Sample : WG568769-04 1.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:40:10 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	Dimethyl Disulfide	-1.0000	0.7475	0.0	100	0.00
56	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
57	S	Toluene-d8	-1.0000	0.4862	0.0	100	0.00
58	C	Toluene	1.0000	0.9897	1.0	100	0.00
59	T	Ethyl Methacrylate	1.0000	0.8672	13.3	100	-0.01
60	T	trans-1,3-Dichloropropene	1.0000	0.8237	17.6	100	0.00
61	T	1,1,2-Trichloroethane	1.0000	0.8969	10.3	100	0.00
62	T	2-Hexanone	-1.0000	0.8473	0.0	100	0.01
63	T	1,3-Dichloropropane	1.0000	0.9392	6.1	100	0.00
64	T	Tetrachloroethene	1.0000	0.9737	2.6	100	0.00
65	T	Dibromochloromethane	1.0000	0.8681	13.2	100	0.00
66	T	1,2-Dibromoethane	1.0000	0.8111	18.9	100	0.00
67	T	1-Chlorohexane	1.0000	0.9554	4.5	100	0.00
68	P	Chlorobenzene	1.0000	0.9890	1.1	100	0.00
69	T	1,1,1,2-Tetrachloroethane	1.0000	0.9621	3.8	100	0.00
70	C	Ethylbenzene	1.0000	0.9608	3.9	100	0.00
71	T	m-,p-Xylene	2.0000	2.0170	-0.9	100	0.00
72	T	o-Xylene	1.0000	0.9768	2.3	100	0.00
73	T	Styrene	1.0000	0.9126	8.7	100	0.01
74	P	Bromoform	1.0000	0.8271	17.3	100	0.00
75	T	Isopropylbenzene	1.0000	0.9787	2.1	100	0.00
76	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
77	P	1,1,2,2-Tetrachloroethane	1.0000	0.9168	8.3	100	0.00
78	S	p-Bromofluorobenzene	-1.0000	0.5252	0.0	100	0.00
79	T	1,2,3-Trichloropropane	1.0000	0.9573	4.3	100	0.01
80	T	trans-1,4-Dichloro-2-Butene	1.0000	1.2934	-29.3#	100	0.00
81	T	n-Propylbenzene	1.0000	0.9671	3.3	100	0.00
82	T	Bromobenzene	1.0000	1.0663	-6.6	100	0.00
83	T	1,3,5-Trimethylbenzene	1.0000	0.9307	6.9	100	0.00
84	T	2-Chlorotoluene	1.0000	1.0337	-3.4	100	0.00
85	T	4-Chlorotoluene	1.0000	0.9664	3.4	100	0.00
86	T	a-Methylstyrene	1.0000	0.8582	14.2	100	0.00
87	T	tert-Butylbenzene	1.0000	0.9392	6.1	100	0.00
88	T	1,2,4-Trimethylbenzene	1.0000	0.9755	2.5	100	0.00
89	T	sec-Butylbenzene	1.0000	0.9774	2.3	100	0.00
90	T	p-Isopropyltoluene	1.0000	0.9221	7.8	100	0.00
91	T	1,3-Dichlorobenzene	1.0000	1.0144	-1.4	100	0.00
92	T	1,4-Dichlorobenzene	1.0000	1.0157	-1.6	100	0.00
93	T	n-Butylbenzene	1.0000	0.9776	2.2	100	0.00
94	T	1,2-Dichlorobenzene	1.0000	0.9974	0.3	100	0.00
95	T	1,2-Dibromo-3-Chloropropane	-1.0000	1.1961	0.0	100	0.00
96	T	1,2,4-Trichlorobenzene	1.0000	0.9233	7.7	100	0.00
97	T	Hexachlorobutadiene	1.0000	0.8843	11.6	100	0.00
98	T	Naphthalene	1.0000	0.8997	10.0	100	0.00
99	T	1,2,3-Trichlorobenzene	1.0000	0.9631	3.7	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M11839.D 8260WT.M Sat May 14 18:41:49 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051316\11M11840.D Vial: 6
Acq On : 13 May 2016 16:15 Operator: JDS
Sample : WG568769-05 2.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04:26 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	504626	25.00	ug/L	-0.01
56) Chlorobenzene-d5	14.25	117	418265	25.00	ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.06	152	241104	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.63	111	5067	0.8846	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	3.52%#		
43) 1,2-Dichloroethane-d4	10.23	65	6143	0.8851	ug/L	-0.01
Spiked Amount 25.000	Range 80 - 120		Recovery =	3.56%#		
57) Toluene-d8	12.47	98	18425	0.9371	ug/L	-0.01
Spiked Amount 25.000	Range 88 - 110		Recovery =	3.76%#		
78) p-Bromofluorobenzene	15.64	95	7442	0.9449	ug/L	-0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	3.76%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	14866	2.0077	ug/L	98
3) Chloromethane	3.72	50	14641	2.1775	ug/L	94
4) Vinyl Chloride	3.96	62	10045	1.8711	ug/L	99
5) 1,3-Butadiene	4.01	54	10590	2.0934	ug/L	82
6) Bromomethane	4.85	94	7024	2.0600	ug/L	94
7) Chloroethane	4.99	64	6661	1.8324	ug/L	97
8) Trichlorofluoromethane	5.49	101	21690	2.1811	ug/L	99
9) Diethyl ether	6.01	59	96350	21.2945	ug/L	97
10) Isoprene	6.04	67	12682	1.8443	ug/L	94
11) Acrolein	6.23	56	5531	10.4784	ug/L	91
12) 1,1,2-Trichloro-1,2,2-Trif	6.23	101	9909	1.9774	ug/L	96
13) Acetone	6.35	43	3346	2.2176	ug/L #	68
14) 1,1-Dichloroethene	6.56	61	18584	2.0007	ug/L	98
15) Tert-Butyl Alcohol	6.66	59	15203	37.9194	ug/L #	93
16) Dimethyl Sulfide	6.81	62	7308	1.7348	ug/L	98
17) Iodomethane	7.06	142	1747	0.4335	ug/L #	49
18) Methyl acetate	7.01	43	17794	3.4567	ug/L #	75
19) Methylene Chloride	7.31	84	10330	1.9861	ug/L	99
20) Carbon Disulfide	7.36	76	30745	1.8910	ug/L	99
21) Acrylonitrile	7.49	53	17499	9.0252	ug/L	91
22) Methyl Tert Butyl Ether	7.52	73	22031	1.6315	ug/L	97
23) trans-1,2-Dichloroethene	7.74	96	10660	2.0051	ug/L	95
24) n-Hexane	7.82	57	17125	1.9654	ug/L #	94
25) Diisopropyl ether	8.15	45	542272	23.5246	ug/L	99
26) Vinyl Acetate	8.31	43	6813	2.1084	ug/L #	84
27) 1,1-Dichloroethane	8.34	63	21278	2.0336	ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	431080	22.8311	ug/L	100
29) 2-Butanone	8.87	43	3175	1.4068	ug/L #	60
30) Propionitrile	8.99	54	12529	19.0049	ug/L	98
31) 2,2-Dichloropropane	9.09	77	17576	2.3259	ug/L	94
32) cis-1,2-Dichloroethene	9.15	96	11652	1.9746	ug/L	96
33) Chloroform	9.35	83	20769	2.1252	ug/L	96
34) 1-Bromopropane	9.48	122	1648	1.7003	ug/L	70
35) Bromochloromethane	9.57	130	6812	1.8040	ug/L	100
36) Tetrahydrofuran	9.60	42	30834	19.9093	ug/L	96
38) 1,1,1-Trichloroethane	9.84	97	20518	2.1713	ug/L #	94
39) Cyclohexane	9.88	56	22087	1.9325	ug/L	98
40) 1,1-Dichloropropene	10.04	75	13954	1.9542	ug/L	98
41) Carbon Tetrachloride	10.18	117	21054	2.3604	ug/L	98
42) Tert-Amyl-Methyl ether	10.13	73	300593	22.3753	ug/L	99

(#) = qualifier out of range (m) = manual integration
11M11840.D 8260WT.M Fri May 13 17:04:27 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11840.D Vial: 6
Acq On : 13 May 2016 16:15 Operator: JDS
Sample : WG568769-05 2.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04:26 2016 Quant Results File: 8260WT.RES

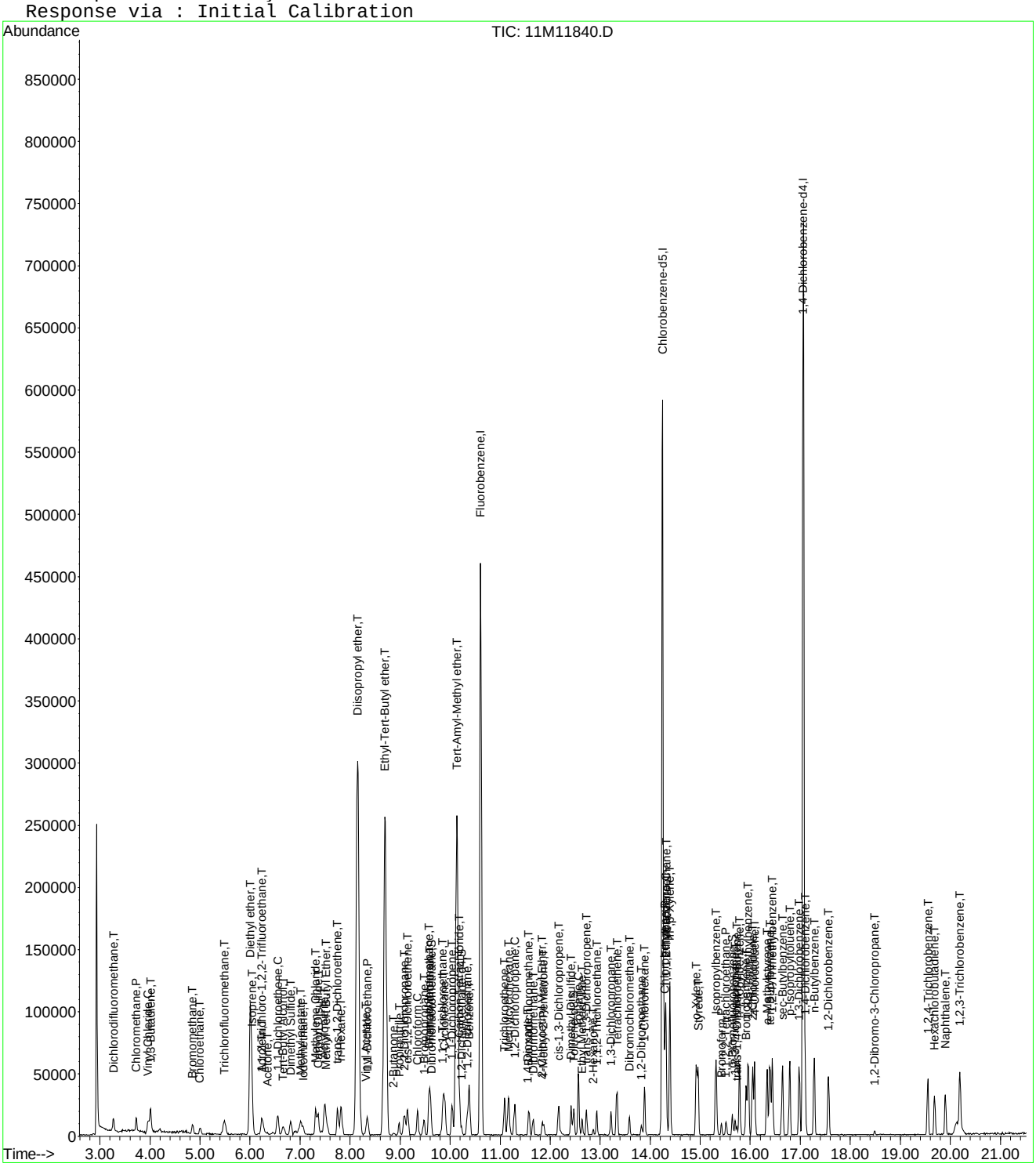
Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloroethane	10.34	62	16928	2.0188 ug/L		98
45)	Benzene	10.38	78	41004	2.0075 ug/L		97
46)	Trichloroethene	11.08	130	13283	1.9954 ug/L		96
47)	Methylcyclohexane	11.17	83	15711	1.9461 ug/L		95
48)	1,2-Dichloropropane	11.29	63	11010	1.8980 ug/L		91
49)	1,4-Dioxane	11.55	88	898	25.5347 ug/L		88
50)	Bromodichloromethane	11.57	83	15058	1.9584 ug/L		100
51)	Dibromomethane	11.66	93	5461	1.7952 ug/L		97
52)	2-Chloroethyl Vinyl Ether	11.84	63	4894	1.6180 ug/L		83
53)	4-Methyl-2-Pentanone	11.87	58	2173	1.1717 ug/L	#	65
54)	cis-1,3-Dichloropropene	12.17	75	14440	1.7842 ug/L		91
55)	Dimethyl Disulfide	12.42	79	7378	1.4613 ug/L		97
58)	Toluene	12.56	91	43051	1.9877 ug/L		98
59)	Ethyl Methacrylate	12.64	69	7792	1.5195 ug/L		95
60)	trans-1,3-Dichloropropene	12.73	75	12991	1.8310 ug/L		98
61)	1,1,2-Trichloroethane	12.93	97	8138	2.0075 ug/L		91
62)	2-Hexanone	12.86	43	4715	1.4106 ug/L	#	61
63)	1,3-Dichloropropane	13.21	76	11740	1.7434 ug/L		95
64)	Tetrachloroethene	13.34	164	10610	2.1708 ug/L		90
65)	Dibromochloromethane	13.59	129	11236	1.9202 ug/L		96
66)	1,2-Dibromoethane	13.82	107	7613	1.8499 ug/L		99
67)	1-Chlorohexane	13.89	91	13853	1.9499 ug/L		96
68)	Chlorobenzene	14.29	112	33381	2.0954 ug/L		99
69)	1,1,1,2-Tetrachloroethane	14.32	131	13541	2.2175 ug/L		97
70)	Ethylbenzene	14.31	106	17116	2.1175 ug/L		98
71)	m-,p-Xylene	14.39	106	40469	4.2073 ug/L		95
72)	o-Xylene	14.92	106	19196	2.0006 ug/L		99
73)	Styrene	14.96	104	30019	1.8440 ug/L		92
74)	Bromoform	15.43	173	6309	1.7308 ug/L		96
75)	Isopropylbenzene	15.31	105	52419	2.1605 ug/L		98
77)	1,1,2,2-Tetrachloroethane	15.51	83	7118	1.7898 ug/L		100
79)	1,2,3-Trichloropropane	15.70	110	2487	1.6927 ug/L		98
80)	trans-1,4-Dichloro-2-Buten	15.74	53	2265	1.3810 ug/L		68
81)	n-Propylbenzene	15.79	91	59353	2.1908 ug/L		100
82)	Bromobenzene	15.91	156	15393	2.0465 ug/L		97
83)	1,3,5-Trimethylbenzene	15.95	105	43641	2.1197 ug/L		98
84)	2-Chlorotoluene	16.05	91	40923	2.0467 ug/L		96
85)	4-Chlorotoluene	16.09	91	37360	2.2771 ug/L		97
86)	a-Methylstyrene	16.34	118	20567	1.7976 ug/L		92
87)	tert-Butylbenzene	16.40	134	9253	2.0481 ug/L		89
88)	1,2,4-Trimethylbenzene	16.44	105	43857	2.0815 ug/L		99
89)	sec-Butylbenzene	16.65	105	52733	2.1643 ug/L		99
90)	p-Isopropyltoluene	16.79	119	49990	2.2541 ug/L		98
91)	1,3-Dichlorobenzene	16.98	146	29674	2.1240 ug/L		99
92)	1,4-Dichlorobenzene	17.10	146	30258	2.1211 ug/L		87
93)	n-Butylbenzene	17.28	91	44260	2.2167 ug/L		98
94)	1,2-Dichlorobenzene	17.57	146	27619	2.0969 ug/L		95
95)	1,2-Dibromo-3-Chloropropan	18.49	75	1094	1.3229 ug/L		60
96)	1,2,4-Trichlorobenzene	19.55	180	18455	1.8857 ug/L		98
97)	Hexachlorobutadiene	19.69	225	8691	2.1858 ug/L		89
98)	Naphthalene	19.90	128	34041	1.8174 ug/L	#	95
99)	1,2,3-Trichlorobenzene	20.19	180	17703	1.9318 ug/L		99

(#) = qualifier out of range (m) = manual integration
11M11840.D 8260WT.M Fri May 13 17:04:27 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051316\11M11840.D Vial: 6
Acq On : 13 May 2016 16:15 Operator: JDS
Sample : WG568769-05 2.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:04 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 11:37:47 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051316\11M11840.D Vial: 6
Acq On : 13 May 2016 16:15 Operator: JDS
Sample : WG568769-05 2.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	2.0000	1.8802	6.0	100	0.00
3	P	Chloromethane	2.0000	2.3121	-15.6	100	0.00
4	C	Vinyl Chloride	2.0000	1.9102	4.5	100	0.00
5	T	1,3-Butadiene	-1.0000	2.0253	0.0	100	0.01
6	T	Bromomethane	2.0000	1.9427	2.9	100	0.00
7	T	Chloroethane	2.0000	1.9714	1.4	100	-0.01
8	T	Trichlorofluoromethane	2.0000	2.0694	-3.5	100	0.01
9	T	Diethyl ether	25.0000	24.8555	0.6	100	0.00
10	T	Isoprene	-1.0000	1.9630	0.0	100	0.00
11	T	Acrolein	12.5000	12.0322	3.7	100	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	2.0000	1.9483	2.6	100	-0.01
13	T	Acetone	-1.0000	2.7924	0.0	100	0.01
14	C	1,1-Dichloroethene	2.0000	2.0117	-0.6	100	0.00
15	T	Tert-Butyl Alcohol	50.0000	45.8688	8.3	100	0.00
16	T	Dimethyl Sulfide	-1.0000	1.9809	0.0	100	0.00
17	T	Iodomethane	2.0000	2.6580	-32.9#	100	0.00
18	T	Methyl acetate	2.0000	0.8555	57.2#	100	0.00
19	T	Methylene Chloride	2.0000	2.1606	-8.0	100	0.00
20	T	Carbon Disulfide	2.0000	1.9879	0.6	100	0.00
21	T	Acrylonitrile	12.5000	10.8919	12.9	100	0.00
22	T	Methyl Tert Butyl Ether	2.0000	1.8475	7.6	100	0.00
23	T	trans-1,2-Dichloroethene	2.0000	2.0850	-4.2	100	0.00
24	T	n-Hexane	2.0000	2.0110	-0.6	100	0.00
25	T	Diisopropyl ether	25.0000	25.5200	-2.1	100	0.00
26	T	Vinyl Acetate	-1.0000	3.2184	0.0	100	0.00
27	P	1,1-Dichloroethane	2.0000	2.0741	-3.7	100	0.00
28	T	Ethyl-Tert-Butyl ether	25.0000	24.9254	0.3	100	0.00
29	T	2-Butanone	-1.0000	1.7527	0.0	0	0.00
30	T	Propionitrile	25.0000	23.6140	5.5	100	0.01
31	T	2,2-Dichloropropane	2.0000	2.1897	-9.5	100	0.00
32	T	cis-1,2-Dichloroethene	2.0000	2.0669	-3.3	100	0.00
33	C	Chloroform	2.0000	2.0616	-3.1	100	0.00
34	T	1-Bromopropane	2.0000	2.2551	-12.8	100	0.00
35	T	Bromochloromethane	2.0000	2.0347	-1.7	100	0.00
36	T	Tetrahydrofuran	25.0000	24.1040	3.6	100	0.00
37	S	Dibromofluoromethane	1.0000	0.9175	8.3	100	0.00
38	T	1,1,1-Trichloroethane	2.0000	2.0696	-3.5	100	-0.01
39	T	Cyclohexane	2.0000	2.0442	-2.2	100	0.00
40	T	1,1-Dichloropropene	2.0000	1.9713	1.4	100	0.00
41	T	Carbon Tetrachloride	2.0000	2.1748	-8.7	100	0.00
42	T	Tert-Amyl-Methyl ether	25.0000	25.0128	-0.1	100	0.00
43	S	1,2-Dichloroethane-d4	1.0000	0.9755	2.4	100	0.00
44	T	1,2-Dichloroethane	2.0000	2.0689	-3.4	100	0.00
45	T	Benzene	2.0000	2.1160	-5.8	100	0.00
46	T	Trichloroethene	2.0000	2.1089	-5.4	100	-0.01
47	T	Methylcyclohexane	2.0000	2.0212	-1.1	100	0.00
48	C	1,2-Dichloropropane	2.0000	2.0525	-2.6	100	0.00
49	T	1,4-Dioxane	50.0000	49.5313	0.9	100	0.00
50	T	Bromodichloromethane	2.0000	1.9996	0.0	100	0.00
51	T	Dibromomethane	2.0000	1.9537	2.3	100	0.01
52	T	2-Chloroethyl Vinyl Ether	-1.0000	1.8512	0.0	100	0.00
53	T	4-Methyl-2-Pentanone	-1.0000	1.4573	0.0	100	0.00
54	T	cis-1,3-Dichloropropene	2.0000	1.9172	4.1	100	0.00

(#) = Out of Range
11M11840.D 8260WT.M Sat May 14 18:46:53 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11840.D Vial: 6
Acq On : 13 May 2016 16:15 Operator: JDS
Sample : WG568769-05 2.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

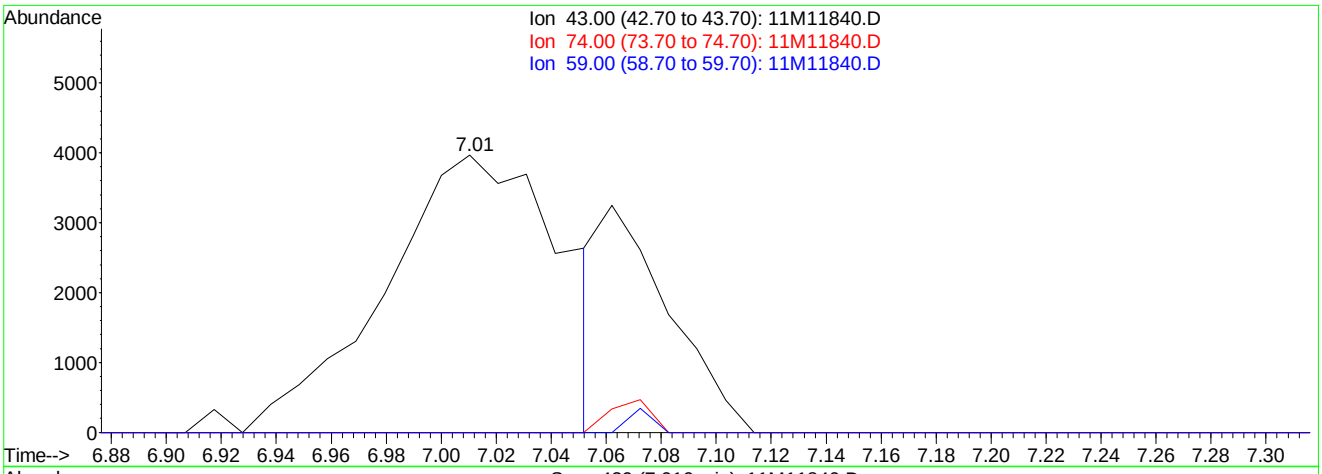
		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	Dimethyl Disulfide	-1.0000	1.6278	0.0	100	0.00
56	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
57	S	Toluene-d8	1.0000	1.0138	-1.4	100	0.00
58	C	Toluene	2.0000	2.0332	-1.7	100	0.00
59	T	Ethyl Methacrylate	2.0000	1.7234	13.8	100	-0.01
60	T	trans-1,3-Dichloropropene	2.0000	1.9114	4.4	100	0.00
61	T	1,1,2-Trichloroethane	2.0000	2.1674	-8.4	100	0.00
62	T	2-Hexanone	-1.0000	1.7098	0.0	100	0.00
63	T	1,3-Dichloropropane	2.0000	1.9471	2.6	100	0.00
64	T	Tetrachloroethene	2.0000	2.1547	-7.7	100	0.00
65	T	Dibromochloromethane	2.0000	1.9620	1.9	100	0.00
66	T	1,2-Dibromoethane	2.0000	2.0238	-1.2	100	0.00
67	T	1-Chlorohexane	2.0000	1.9844	0.8	100	0.00
68	P	Chlorobenzene	2.0000	2.1520	-7.6	100	0.00
69	T	1,1,1,2-Tetrachloroethane	2.0000	2.1574	-7.9	100	0.00
70	C	Ethylbenzene	2.0000	2.1518	-7.6	100	0.00
71	T	m-,p-Xylene	4.0000	4.1851	-4.6	100	0.00
72	T	o-Xylene	2.0000	2.0398	-2.0	100	0.00
73	T	Styrene	2.0000	1.9307	3.5	100	0.01
74	P	Bromoform	2.0000	1.8176	9.1	100	0.00
75	T	Isopropylbenzene	2.0000	2.1063	-5.3	100	0.00
76	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
77	P	1,1,2,2-Tetrachloroethane	2.0000	1.8958	5.2	100	-0.01
78	S	p-Bromofluorobenzene	1.0000	1.0013	-0.1	100	0.00
79	T	1,2,3-Trichloropropane	2.0000	2.1172	-5.9	100	0.00
80	T	trans-1,4-Dichloro-2-Butene	2.0000	1.9762	1.2	100	0.00
81	T	n-Propylbenzene	2.0000	2.1256	-6.3	100	0.00
82	T	Bromobenzene	2.0000	2.1009	-5.0	100	-0.01
83	T	1,3,5-Trimethylbenzene	2.0000	2.0481	-2.4	100	-0.01
84	T	2-Chlorotoluene	2.0000	2.0925	-4.6	100	0.00
85	T	4-Chlorotoluene	2.0000	2.1326	-6.6	100	0.00
86	T	a-Methylstyrene	2.0000	1.8297	8.5	100	0.00
87	T	tert-Butylbenzene	2.0000	2.0497	-2.5	100	0.00
88	T	1,2,4-Trimethylbenzene	2.0000	2.0213	-1.1	100	0.00
89	T	sec-Butylbenzene	2.0000	2.0611	-3.1	100	0.00
90	T	p-Isopropyltoluene	2.0000	2.1272	-6.4	100	0.00
91	T	1,3-Dichlorobenzene	2.0000	2.0970	-4.8	100	0.00
92	T	1,4-Dichlorobenzene	2.0000	2.1095	-5.5	100	0.00
93	T	n-Butylbenzene	2.0000	2.1373	-6.9	100	0.00
94	T	1,2-Dichlorobenzene	2.0000	2.1425	-7.1	100	0.00
95	T	1,2-Dibromo-3-Chloropropane	2.0000	1.9175	4.1	100	0.00
96	T	1,2,4-Trichlorobenzene	2.0000	1.9565	2.2	100	0.00
97	T	Hexachlorobutadiene	2.0000	2.0914	-4.6	100	0.00
98	T	Naphthalene	2.0000	1.9443	2.8	100	0.00
99	T	1,2,3-Trichlorobenzene	2.0000	2.0449	-2.2	100	0.00

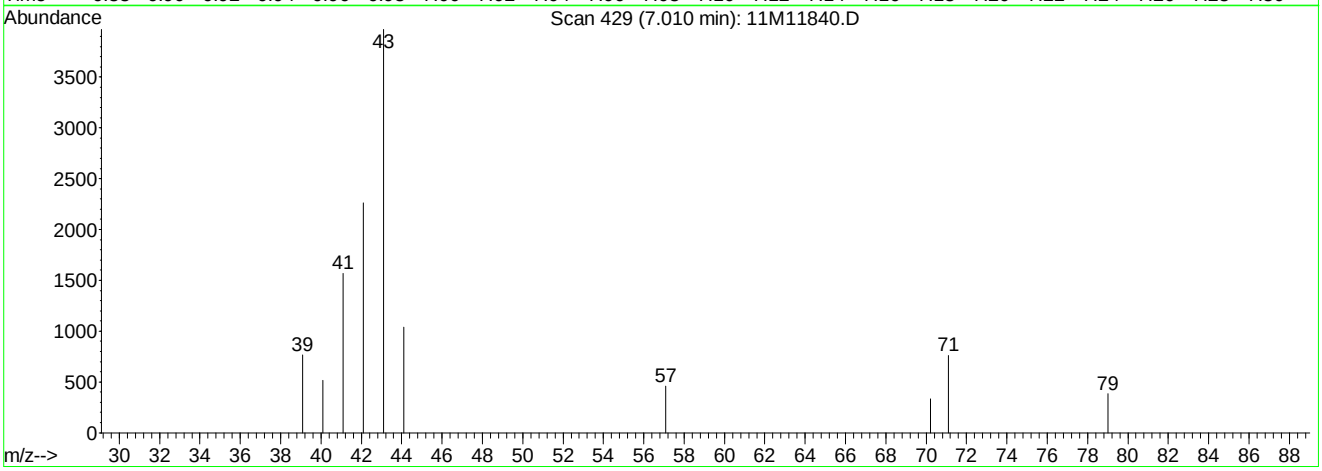
(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M11840.D 8260WT.M Sat May 14 18:46:53 2016 Page 2

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\051316\11M11840.D Vial: 6
Acq On : 13 May 2016 16:15 Operator: JDS
Sample : WG568769-05 2.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Single Level Calibration





TIC: 11M11840.D

(18) Methyl acetate (T)

7.01min 3.69ug/L

response 17794

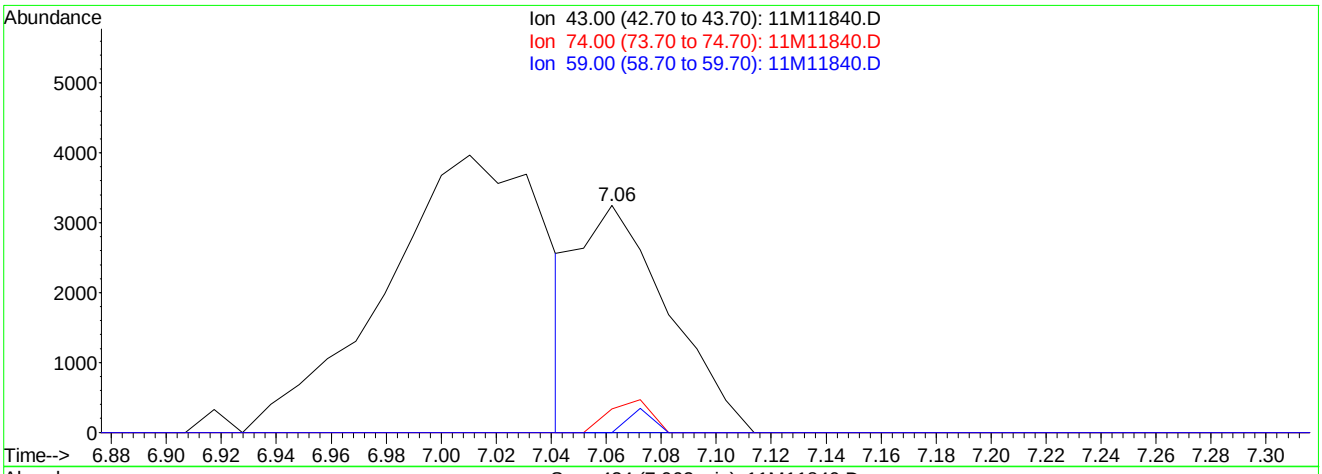
Ion	Exp%	Act%
43.00	100	100
74.00	13.60	2.82#
59.00	6.50	1.21#
0.00	0.00	0.00

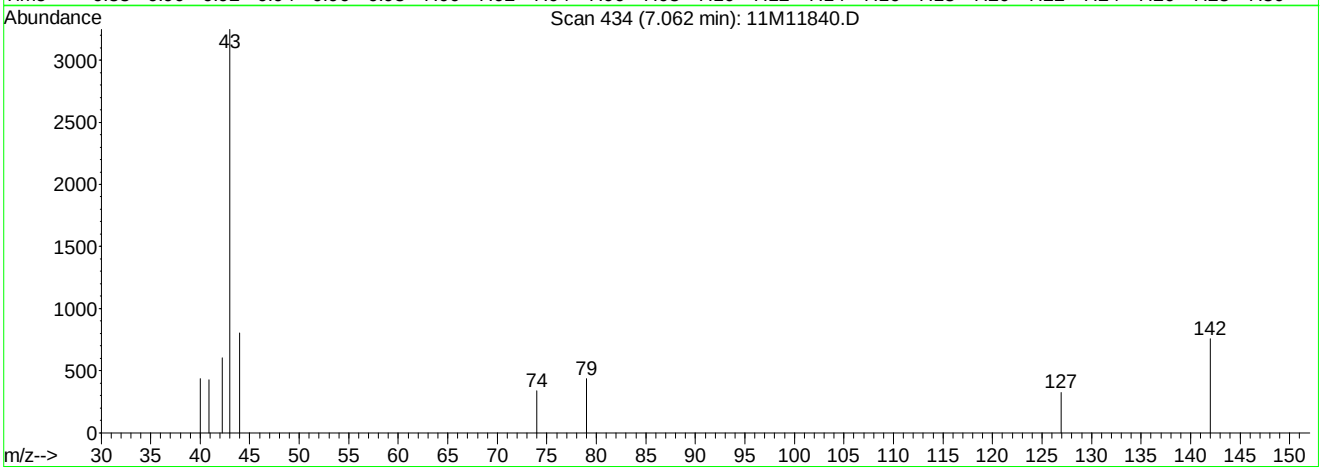
11M11840.D 8260WT.M Sat May 14 18:46:34 2016

Quantitation Report (Qedit)

Data File : C:\MSDCHEM\1\DATA\051316\11M11840.D Vial: 6
Acq On : 13 May 2016 16:15 Operator: JDS
Sample : WG568769-05 2.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:46 2016 Quant Results File: temp.res

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Single Level Calibration





TIC: 11M11840.D

(18) Methyl acetate (T)

7.06min 0.86ug/L mint

response 7344

Ion	Exp%	Act%
43.00	100	100
74.00	13.60	6.84#
59.00	6.50	2.93#
0.00	0.00	0.00

11M11840.D 8260WT.M Sat May 14 18:46:39 2016

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051316\11M11841.D Vial: 7
Acq On : 13 May 2016 16:47 Operator: JDS
Sample : WG568769-06 5.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:12:58 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 17:07:56 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	510485	25.00	ug/L	-0.01
56) Chlorobenzene-d5	14.25	117	424113	25.00	ug/L	-0.01
76) 1,4-Dichlorobenzene-d4	17.06	152	244127	25.00	ug/L	-0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.63	111	13577	2.3093	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	9.24%#		
43) 1,2-Dichloroethane-d4	10.23	65	16340	2.3640	ug/L	-0.01
Spiked Amount 25.000	Range 80 - 120		Recovery =	9.44%#		
57) Toluene-d8	12.47	98	46369	2.3570	ug/L	-0.01
Spiked Amount 25.000	Range 88 - 110		Recovery =	9.44%#		
78) p-Bromofluorobenzene	15.64	95	19139	2.4218	ug/L	-0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	9.68%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	33260	4.2909	ug/L	97
3) Chloromethane	3.72	50	29484	4.2588	ug/L	100
4) Vinyl Chloride	3.96	62	24947	4.6446	ug/L	98
5) 1,3-Butadiene	4.00	54	24704	4.8274	ug/L	87
6) Bromomethane	4.85	94	16794	4.7876	ug/L	96
7) Chloroethane	5.00	64	15417	4.1982	ug/L	96
8) Trichlorofluoromethane	5.48	101	50663	4.8750	ug/L	98
9) Diethyl ether	6.01	59	199353	45.0064	ug/L	100
10) Isoprene	6.04	67	30513	4.3864	ug/L	99
11) Acrolein	6.25	56	12345	23.3877	ug/L	87
12) 1,1,2-Trichloro-1,2,2-Trif	6.26	101	23865	4.5585	ug/L	97
13) Acetone	6.35	43	6439	4.2186	ug/L	86
14) 1,1-Dichloroethene	6.56	61	43769	4.6158	ug/L	96
15) Tert-Butyl Alcohol	6.66	59	34212	87.4805	ug/L	100
16) Dimethyl Sulfide	6.81	62	17251	4.0482	ug/L	99
17) Iodomethane	7.06	142	7385	2.0684	ug/L	94
18) Methyl acetate	7.06	43	32363	5.4250	ug/L #	83
19) Methylene Chloride	7.31	84	23476	4.4707	ug/L	98
20) Carbon Disulfide	7.36	76	72931	4.4715	ug/L	98
21) Acrylonitrile	7.49	53	38039	20.0847	ug/L	96
22) Methyl Tert Butyl Ether	7.52	73	57597	4.3071	ug/L	98
23) trans-1,2-Dichloroethene	7.74	96	23369	4.3390	ug/L	99
24) n-Hexane	7.82	57	38507	4.3615	ug/L	99
25) Diisopropyl ether	8.15	45	1105208	48.2180	ug/L	99
26) Vinyl Acetate	8.31	43	24007	7.3442	ug/L	97
27) 1,1-Dichloroethane	8.34	63	51535	4.8316	ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	899266	48.1312	ug/L	99
29) 2-Butanone	8.88	43	8098	3.5469	ug/L	98
30) Propionitrile	8.98	54	26204	41.2561	ug/L	97
31) 2,2-Dichloropropane	9.09	77	40285	5.2526	ug/L	97
32) cis-1,2-Dichloroethene	9.15	96	27456	4.6081	ug/L	91
33) Chloroform	9.35	83	48958	4.7306	ug/L	97
34) 1-Bromopropane	9.47	122	4632	4.9482	ug/L	88
35) Bromochloromethane	9.57	130	17073	4.6807	ug/L	99
36) Tetrahydrofuran	9.60	42	59638	39.6839	ug/L	99
38) 1,1,1-Trichloroethane	9.85	97	48123	4.8983	ug/L	100
39) Cyclohexane	9.88	56	51945	4.5931	ug/L	98
40) 1,1-Dichloropropene	10.04	75	33867	4.6344	ug/L	99
41) Carbon Tetrachloride	10.17	117	47434	5.0851	ug/L	100
42) Tert-Amyl-Methyl ether	10.13	73	615710	46.3601	ug/L	99

(#) = qualifier out of range (m) = manual integration
11M11841.D 8260WT.M Fri May 13 17:12:59 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11841.D Vial: 7
Acq On : 13 May 2016 16:47 Operator: JDS
Sample : WG568769-06 5.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:12:58 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 17:07:56 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

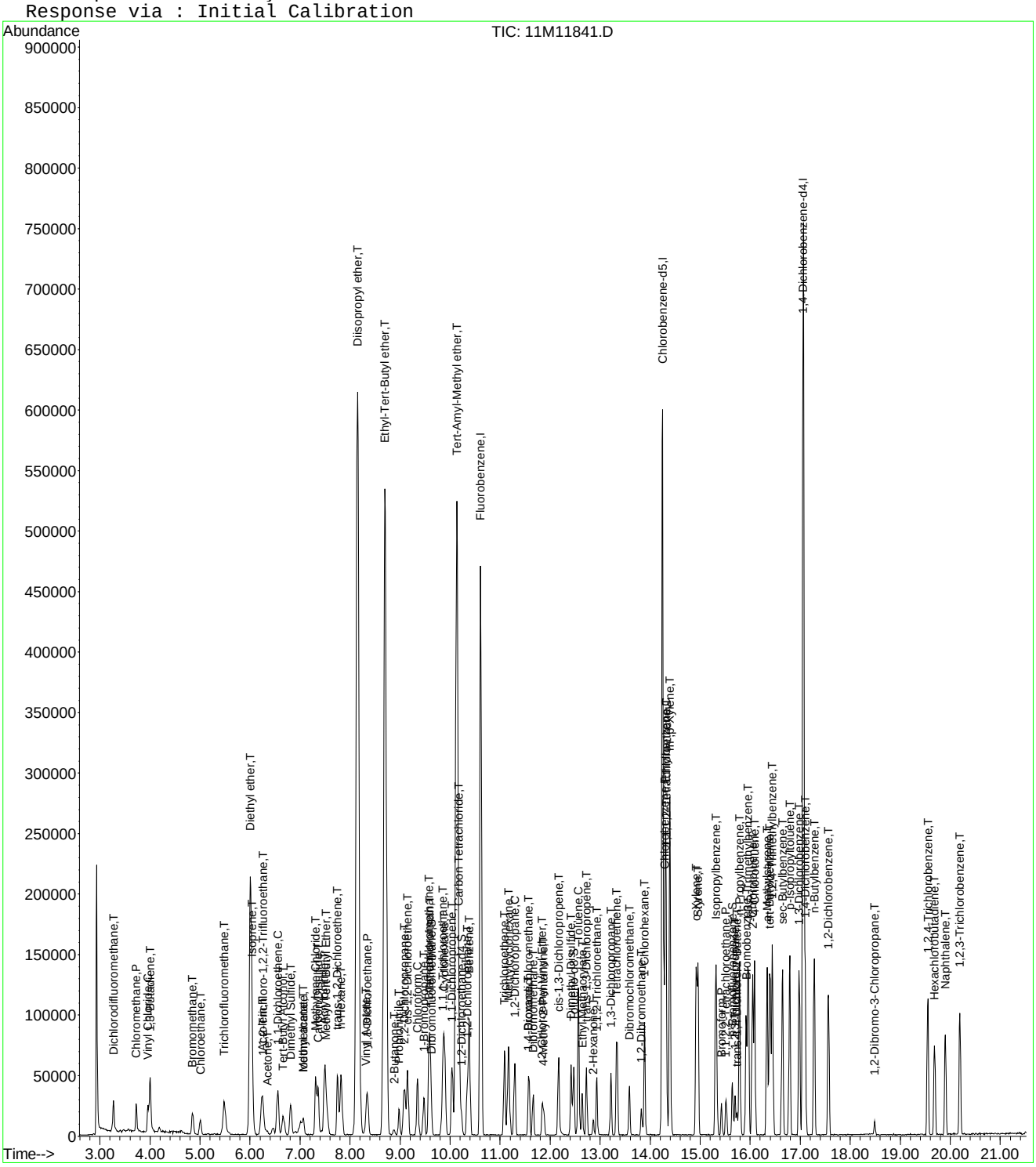
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	1,2-Dichloroethane	10.34	62	40281	4.6727 ug/L	99
45)	Benzene	10.38	78	94223	4.6151 ug/L	99
46)	Trichloroethene	11.08	130	31195	4.7740 ug/L	96
47)	Methylcyclohexane	11.17	83	35731	4.4100 ug/L	96
48)	1,2-Dichloropropane	11.29	63	25973	4.4921 ug/L	93
49)	1,4-Dioxane	11.56	88	2747	80.2363 ug/L	93
50)	Bromodichloromethane	11.57	83	36997	4.7467 ug/L	99
51)	Dibromomethane	11.65	93	13963	4.5774 ug/L	97
52)	2-Chloroethyl Vinyl Ether	11.84	63	11417	3.7313 ug/L	95
53)	4-Methyl-2-Pentanone	11.87	58	6133	3.2690 ug/L	90
54)	cis-1,3-Dichloropropene	12.17	75	36461	4.5343 ug/L	100
55)	Dimethyl Disulfide	12.42	79	18914	3.7032 ug/L	99
58)	Toluene	12.56	91	107617	4.9467 ug/L	100
59)	Ethyl Methacrylate	12.65	69	21187	4.1021 ug/L	99
60)	trans-1,3-Dichloropropene	12.73	75	32824	4.5778 ug/L	99
61)	1,1,2-Trichloroethane	12.94	97	17791	4.3060 ug/L	98
62)	2-Hexanone	12.86	43	11606	3.4244 ug/L	99
63)	1,3-Dichloropropane	13.21	76	30121	4.5460 ug/L	97
64)	Tetrachloroethene	13.33	164	24241	4.8819 ug/L	95
65)	Dibromochloromethane	13.59	129	27989	4.7024 ug/L	95
66)	1,2-Dibromoethane	13.82	107	18147	4.4382 ug/L	96
67)	1-Chlorohexane	13.89	91	33195	4.6591 ug/L	97
68)	Chlorobenzene	14.29	112	79059	4.9583 ug/L	98
69)	1,1,1,2-Tetrachloroethane	14.32	131	31047	4.8956 ug/L	97
70)	Ethylbenzene	14.31	106	39304	4.8168 ug/L	95
71)	m-,p-Xylene	14.39	106	95751	9.7273 ug/L	95
72)	o-Xylene	14.92	106	45759	4.7228 ug/L	96
73)	Styrene	14.95	104	77900	4.8227 ug/L	98
74)	Bromoform	15.43	173	15663	4.1856 ug/L	97
75)	Isopropylbenzene	15.31	105	123883	4.9827 ug/L	99
77)	1,1,2,2-Tetrachloroethane	15.51	83	18105	4.4049 ug/L	100
79)	1,2,3-Trichloropropane	15.70	110	6717	4.7266 ug/L	85
80)	trans-1,4-Dichloro-2-Buten	15.74	53	6067	3.6507 ug/L	69
81)	n-Propylbenzene	15.79	91	143972	5.2435 ug/L	99
82)	Bromobenzene	15.92	156	37345	4.9800 ug/L	93
83)	1,3,5-Trimethylbenzene	15.95	105	106030	5.0309 ug/L	100
84)	2-Chlorotoluene	16.05	91	99279	4.9734 ug/L	100
85)	4-Chlorotoluene	16.09	91	88275	5.1992 ug/L	98
86)	a-Methylstyrene	16.34	118	53766	4.7153 ug/L	98
87)	tert-Butylbenzene	16.39	134	23868	5.2956 ug/L	97
88)	1,2,4-Trimethylbenzene	16.44	105	112072	5.2401 ug/L	99
89)	sec-Butylbenzene	16.65	105	129249	5.1810 ug/L	99
90)	p-Isopropyltoluene	16.79	119	119605	5.2524 ug/L	98
91)	1,3-Dichlorobenzene	16.98	146	71265	5.0271 ug/L	99
92)	1,4-Dichlorobenzene	17.10	146	72437	5.0122 ug/L	96
93)	n-Butylbenzene	17.28	91	100062	4.9277 ug/L	99
94)	1,2-Dichlorobenzene	17.57	146	64925	4.9520 ug/L	98
95)	1,2-Dibromo-3-Chloropropan	18.49	75	3875	4.6567 ug/L	87
96)	1,2,4-Trichlorobenzene	19.55	180	46664	4.8629 ug/L	97
97)	Hexachlorobutadiene	19.69	225	20419	5.1319 ug/L	96
98)	Naphthalene	19.90	128	83612	4.4869 ug/L	99
99)	1,2,3-Trichlorobenzene	20.19	180	40714	4.5323 ug/L	98

(#) = qualifier out of range (m) = manual integration
11M11841.D 8260WT.M Fri May 13 17:12:59 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051316\11M11841.D Vial: 7
Acq On : 13 May 2016 16:47 Operator: JDS
Sample : WG568769-06 5.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 13 17:12 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Fri May 13 17:07:56 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051316\11M11841.D Vial: 7
Acq On : 13 May 2016 16:47 Operator: JDS
Sample : WG568769-06 5.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	5.0000	4.1584	16.8	100	0.00
3	P	Chloromethane	5.0000	4.6027	7.9	100	0.00
4	C	Vinyl Chloride	5.0000	4.6895	6.2	100	0.00
5	T	1,3-Butadiene	5.0000	4.6702	6.6	100	0.00
6	T	Bromomethane	5.0000	4.5915	8.2	100	0.00
7	T	Chloroethane	5.0000	4.5105	9.8	100	0.00
8	T	Trichlorofluoromethane	5.0000	4.7781	4.4	100	0.00
9	T	Diethyl ether	50.0000	50.8371	-1.7	100	0.00
10	T	Isoprene	5.0000	4.6688	6.6	100	0.00
11	T	Acrolein	25.0000	24.7297	1.1	100	0.01
12	T	1,1,2-Trichloro-1,2,2-Trifl	5.0000	4.6385	7.2	100	0.01
13	T	Acetone	5.0000	5.3120	-6.2	100	0.01
14	C	1,1-Dichloroethene	5.0000	4.6835	6.3	100	0.00
15	T	Tert-Butyl Alcohol	100.0000	102.0360	-2.0	100	0.00
16	T	Dimethyl Sulfide	5.0000	4.6223	7.6	100	0.00
17	T	Iodomethane	5.0000	3.9124	21.8	100	0.00
18	T	Methyl acetate	5.0000	7.5474	-50.9#	100	0.00
19	T	Methylene Chloride	5.0000	4.8539	2.9	100	0.00
20	T	Carbon Disulfide	5.0000	4.6615	6.8	100	0.00
21	T	Acrylonitrile	25.0000	23.4049	6.4	100	0.00
22	T	Methyl Tert Butyl Ether	5.0000	4.7747	4.5	100	0.00
23	T	trans-1,2-Dichloroethene	5.0000	4.5182	9.6	100	0.00
24	T	n-Hexane	5.0000	4.4700	10.6	100	0.00
25	T	Diisopropyl ether	50.0000	51.4154	-2.8	100	0.00
26	T	Vinyl Acetate	5.0000	5.1698	-3.4	100	0.00
27	P	1,1-Dichloroethane	5.0000	4.9658	0.7	100	0.00
28	T	Ethyl-Tert-Butyl ether	50.0000	51.3996	-2.8	100	0.00
29	T	2-Butanone	5.0000	4.4190	11.6	100	0.01
30	T	Propionitrile	50.0000	48.8210	2.4	100	0.00
31	T	2,2-Dichloropropane	5.0000	4.9614	0.8	100	0.00
32	T	cis-1,2-Dichloroethene	5.0000	4.8145	3.7	100	0.00
33	C	Chloroform	5.0000	4.8039	3.9	100	0.00
34	T	1-Bromopropane	5.0000	5.1449	-2.9	100	0.00
35	T	Bromochloromethane	5.0000	5.0410	-0.8	100	0.00
36	T	Tetrahydrofuran	50.0000	46.0861	7.8	100	0.00
37	S	Dibromofluoromethane	2.5000	2.4302	2.8	100	0.00
38	T	1,1,1-Trichloroethane	5.0000	4.7984	4.0	100	0.00
39	T	Cyclohexane	5.0000	4.7526	4.9	100	0.00
40	T	1,1-Dichloropropene	5.0000	4.7295	5.4	100	0.00
41	T	Carbon Tetrachloride	5.0000	4.8435	3.1	100	-0.01
42	T	Tert-Amyl-Methyl ether	50.0000	50.6462	-1.3	100	0.00
43	S	1,2-Dichloroethane-d4	2.5000	2.5650	-2.6	100	0.00
44	T	1,2-Dichloroethane	5.0000	4.8665	2.7	100	0.00
45	T	Benzene	5.0000	4.8065	3.9	100	0.00
46	T	Trichloroethene	5.0000	4.8959	2.1	100	-0.01
47	T	Methylcyclohexane	5.0000	4.5439	9.1	100	0.00
48	C	1,2-Dichloropropane	5.0000	4.7864	4.3	100	0.00
49	T	1,4-Dioxane	100.0000	102.6541	-2.7	100	0.01
50	T	Bromodichloromethane	5.0000	4.8566	2.9	100	0.00
51	T	Dibromomethane	5.0000	4.9379	1.2	100	0.00
52	T	2-Chloroethyl Vinyl Ether	5.0000	4.2689	14.6	100	0.00
53	T	4-Methyl-2-Pentanone	5.0000	4.0658	18.7	100	0.00
54	T	cis-1,3-Dichloropropene	5.0000	4.7853	4.3	100	0.00

(#) = Out of Range
11M11841.D 8260WT.M Sat May 14 18:48:20 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11841.D Vial: 7
Acq On : 13 May 2016 16:47 Operator: JDS
Sample : WG568769-06 5.0ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	Dimethyl Disulfide	5.0000	4.1252	17.5	100	0.00
56	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
57	S	Toluene-d8	2.5000	2.5163	-0.7	100	0.00
58	C	Toluene	5.0000	5.0124	-0.2	100	0.00
59	T	Ethyl Methacrylate	5.0000	4.6214	7.6	100	0.00
60	T	trans-1,3-Dichloropropene	5.0000	4.7629	4.7	100	0.00
61	T	1,1,2-Trichloroethane	5.0000	4.6730	6.5	100	0.00
62	T	2-Hexanone	5.0000	4.1507	17.0	100	0.00
63	T	1,3-Dichloropropane	5.0000	4.9267	1.5	100	0.00
64	T	Tetrachloroethene	5.0000	4.8551	2.9	100	-0.01
65	T	Dibromochloromethane	5.0000	4.8199	3.6	100	0.00
66	T	1,2-Dibromoethane	5.0000	4.7575	4.8	100	0.00
67	T	1-Chlorohexane	5.0000	4.6895	6.2	100	0.00
68	P	Chlorobenzene	5.0000	5.0264	-0.5	100	0.00
69	T	1,1,1,2-Tetrachloroethane	5.0000	4.8783	2.4	100	0.00
70	C	Ethylbenzene	5.0000	4.8732	2.5	100	0.00
71	T	m-,p-Xylene	10.0000	9.7654	2.3	100	0.00
72	T	o-Xylene	5.0000	4.7954	4.1	100	0.00
73	T	Styrene	5.0000	4.9411	1.2	100	0.00
74	P	Bromoform	5.0000	4.4503	11.0	100	0.00
75	T	Isopropylbenzene	5.0000	4.9091	1.8	100	0.00
76	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
77	P	1,1,2,2-Tetrachloroethane	5.0000	4.7624	4.8	100	-0.01
78	S	p-Bromofluorobenzene	2.5000	2.5432	-1.7	100	0.00
79	T	1,2,3-Trichloropropane	5.0000	5.0393	-0.8	100	0.00
80	T	trans-1,4-Dichloro-2-Butene	5.0000	4.0050	19.9	100	0.00
81	T	n-Propylbenzene	5.0000	5.0923	-1.8	100	0.00
82	T	Bromobenzene	5.0000	5.0338	-0.7	100	0.00
83	T	1,3,5-Trimethylbenzene	5.0000	4.9145	1.7	100	-0.01
84	T	2-Chlorotoluene	5.0000	5.0134	-0.3	100	0.00
85	T	4-Chlorotoluene	5.0000	4.9765	0.5	100	0.00
86	T	a-Methylstyrene	5.0000	4.7239	5.5	100	0.00
87	T	tert-Butylbenzene	5.0000	5.2217	-4.4	100	-0.01
88	T	1,2,4-Trimethylbenzene	5.0000	5.1012	-2.0	100	0.00
89	T	sec-Butylbenzene	5.0000	4.9892	0.2	100	0.00
90	T	p-Isopropyltoluene	5.0000	5.0265	-0.5	100	0.00
91	T	1,3-Dichlorobenzene	5.0000	4.9737	0.5	100	0.00
92	T	1,4-Dichlorobenzene	5.0000	4.9875	0.2	100	0.00
93	T	n-Butylbenzene	5.0000	4.7722	4.6	100	0.00
94	T	1,2-Dichlorobenzene	5.0000	4.9741	0.5	100	0.00
95	T	1,2-Dibromo-3-Chloropropane	5.0000	5.1051	-2.1	100	0.00
96	T	1,2,4-Trichlorobenzene	5.0000	4.8858	2.3	100	0.00
97	T	Hexachlorobutadiene	5.0000	4.8528	2.9	100	0.00
98	T	Naphthalene	5.0000	4.7164	5.7	100	0.00
99	T	1,2,3-Trichlorobenzene	5.0000	4.6448	7.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M11841.D 8260WT.M Sat May 14 18:48:20 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051316\11M11842.D Vial: 7
Acq On : 13 May 2016 17:19 Operator: JDS
Sample : WG568769-07 20ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50:53 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	512017	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.25	117	433937	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	255524	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.63	111	58089	10.3664	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 41.48%#			
43) 1,2-Dichloroethane-d4	10.23	65	66804	10.4555	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 41.84%#			
57) Toluene-d8	12.47	98	193532	10.2645	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 41.04%#			
78) p-Bromofluorobenzene	15.64	95	81186	10.3070	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 41.24%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	176636	22.0179	ug/L	99
3) Chloromethane	3.72	50	126901	19.7510	ug/L	98
4) Vinyl Chloride	3.96	62	109592	20.5394	ug/L	98
5) 1,3-Butadiene	4.00	54	116317	21.9237	ug/L	96
6) Bromomethane	4.85	94	73878	20.1380	ug/L	93
7) Chloroethane	5.00	64	71103	20.7401	ug/L	100
8) Trichlorofluoromethane	5.49	101	225913	21.2425	ug/L	99
9) Diethyl ether	6.01	59	321203	81.6650	ug/L	99
10) Isoprene	6.04	67	135641	20.6925	ug/L	98
11) Acrolein	6.24	56	19366	37.8284	ug/L	95
12) 1,1,2-Trichloro-1,2,2-Trif	6.25	101	109792	21.2757	ug/L	99
13) Acetone	6.34	43	27399	22.5356	ug/L	96
14) 1,1-Dichloroethene	6.56	61	201658	21.5139	ug/L	98
15) Tert-Butyl Alcohol	6.67	59	60081	178.6532	ug/L	99
16) Dimethyl Sulfide	6.81	62	75759	20.2383	ug/L	97
17) Iodomethane	7.06	142	67280	17.2594	ug/L	97
18) Methyl acetate	7.07	43	87945	22.4983	ug/L	96
19) Methylene Chloride	7.31	84	99453	20.5013	ug/L	100
20) Carbon Disulfide	7.36	76	327043	20.8410	ug/L	100
21) Acrylonitrile	7.49	53	69618	42.7070	ug/L	95
22) Methyl Tert Butyl Ether	7.52	73	266288	22.0086	ug/L	99
23) trans-1,2-Dichloroethene	7.75	96	107858	20.7912	ug/L	99
24) n-Hexane	7.82	57	184135	21.3111	ug/L	99
25) Diisopropyl ether	8.15	45	1729257	80.2062	ug/L	99
26) Vinyl Acetate	8.31	43	160029	20.6235	ug/L	99
27) 1,1-Dichloroethane	8.34	63	218994	21.0387	ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	1435318	81.7933	ug/L	100
29) 2-Butanone	8.87	43	39878	21.6958	ug/L	99
30) Propionitrile	8.97	54	47221	87.7149	ug/L	99
31) 2,2-Dichloropropane	9.09	77	166427	20.4352	ug/L	100
32) cis-1,2-Dichloroethene	9.15	96	120620	21.0877	ug/L	99
33) Chloroform	9.35	83	208615	20.4085	ug/L	99
34) 1-Bromopropane	9.48	122	19153	19.2424	ug/L	96
35) Bromochloromethane	9.57	130	77189	22.7226	ug/L	99
36) Tetrahydrofuran	9.60	42	109362	84.2581	ug/L	100
38) 1,1,1-Trichloroethane	9.85	97	210871	20.9631	ug/L	98
39) Cyclohexane	9.88	56	235071	21.4428	ug/L	99
40) 1,1-Dichloropropene	10.04	75	151682	21.1188	ug/L	99
41) Carbon Tetrachloride	10.17	117	212111	21.5941	ug/L	100
42) Tert-Amyl-Methyl ether	10.13	73	1001790	82.1572	ug/L	100

(#) = qualifier out of range (m) = manual integration
11M11842.D 8260WT.M Sat May 14 18:50:54 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11842.D Vial: 7
Acq On : 13 May 2016 17:19 Operator: JDS
Sample : WG568769-07 20ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50:53 2016 Quant Results File: 8260WT.RES

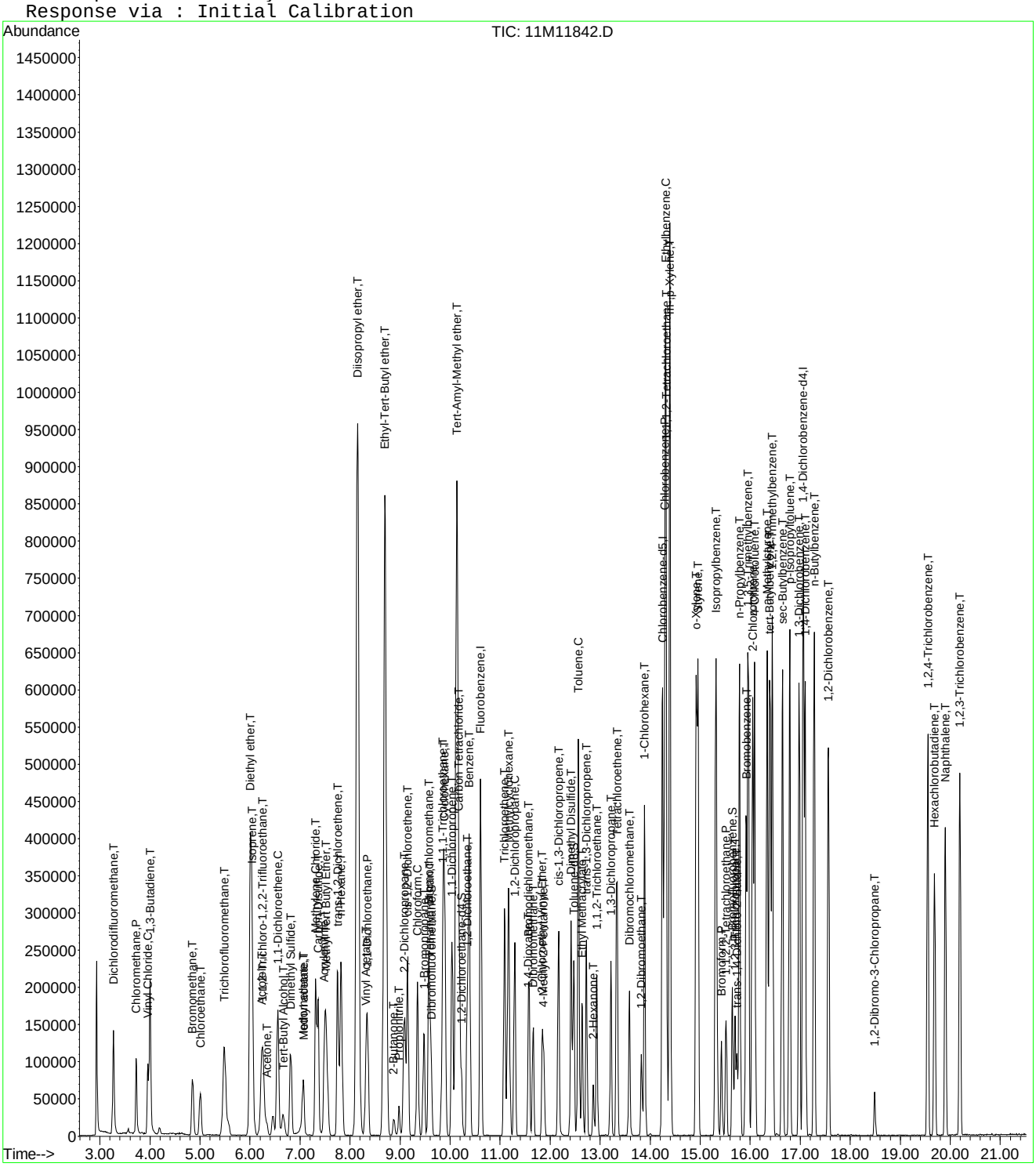
Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	1,2-Dichloroethane	10.34	62	180438	21.7339	ug/L	99
45)	Benzene	10.38	78	407777	20.7394	ug/L	100
46)	Trichloroethene	11.08	130	132094	20.6692	ug/L	99
47)	Methylcyclohexane	11.17	83	168355	21.3455	ug/L	98
48)	1,2-Dichloropropane	11.29	63	112875	20.7388	ug/L	99
49)	1,4-Dioxane	11.56	88	4948	165.8209	ug/L	99
50)	Bromodichloromethane	11.57	83	163762	21.4329	ug/L	98
51)	Dibromomethane	11.65	93	61028	21.5174	ug/L	98
52)	2-Chloroethyl Vinyl Ether	11.84	63	56664	21.1238	ug/L	99
53)	4-Methyl-2-Pentanone	11.87	58	32621	21.5609	ug/L	99
54)	cis-1,3-Dichloropropene	12.17	75	166399	21.7735	ug/L	100
55)	Dimethyl Disulfide	12.42	79	93808	20.3984	ug/L	99
58)	Toluene	12.56	91	467769	21.2936	ug/L	99
59)	Ethyl Methacrylate	12.64	69	103892	22.1484	ug/L	98
60)	trans-1,3-Dichloropropene	12.73	75	155661	22.0759	ug/L	100
61)	1,1,2-Trichloroethane	12.94	97	85297	21.8971	ug/L	100
62)	2-Hexanone	12.86	43	62113	21.7109	ug/L	99
63)	1,3-Dichloropropane	13.21	76	137448	21.9726	ug/L	98
64)	Tetrachloroethene	13.34	164	106368	20.8217	ug/L	99
65)	Dibromochloromethane	13.59	129	131143	22.0723	ug/L	99
66)	1,2-Dibromoethane	13.82	107	84381	21.6209	ug/L	99
67)	1-Chlorohexane	13.89	91	153420	21.1830	ug/L	100
68)	Chlorobenzene	14.29	112	338669	21.0446	ug/L	99
69)	1,1,1,2-Tetrachloroethane	14.32	131	134571	20.6660	ug/L	98
70)	Ethylbenzene	14.31	106	171752	20.8130	ug/L	97
71)	m-,p-Xylene	14.39	106	419228	41.7882	ug/L	99
72)	o-Xylene	14.92	106	208125	21.3170	ug/L	99
73)	Styrene	14.95	104	353452	21.9116	ug/L	98
74)	Bromoform	15.43	173	78592	21.8247	ug/L	100
75)	Isopropylbenzene	15.31	105	552747	21.4078	ug/L	99
77)	1,1,2,2-Tetrachloroethane	15.52	83	90122	22.6486	ug/L	98
79)	1,2,3-Trichloropropane	15.70	110	30969	20.9562	ug/L	97
80)	trans-1,4-Dichloro-2-Buten	15.74	53	36190	19.3325	ug/L	86
81)	n-Propylbenzene	15.79	91	640711	21.6512	ug/L	100
82)	Bromobenzene	15.92	156	160227	20.6340	ug/L	100
83)	1,3,5-Trimethylbenzene	15.95	105	481759	21.3337	ug/L	100
84)	2-Chlorotoluene	16.05	91	435100	20.9919	ug/L	99
85)	4-Chlorotoluene	16.09	91	391759	21.1004	ug/L	100
86)	a-Methylstyrene	16.34	118	253642	21.2911	ug/L	99
87)	tert-Butylbenzene	16.39	134	101859	21.2903	ug/L	99
88)	1,2,4-Trimethylbenzene	16.44	105	505239	21.9714	ug/L	98
89)	sec-Butylbenzene	16.65	105	586770	21.6398	ug/L	100
90)	p-Isopropyltoluene	16.79	119	539795	21.6735	ug/L	100
91)	1,3-Dichlorobenzene	16.98	146	312832	20.8591	ug/L	99
92)	1,4-Dichlorobenzene	17.10	146	314339	20.6779	ug/L	99
93)	n-Butylbenzene	17.28	91	474312	21.6121	ug/L	99
94)	1,2-Dichlorobenzene	17.57	146	287316	21.0305	ug/L	100
95)	1,2-Dibromo-3-Chloropropan	18.49	75	19607	22.2193	ug/L	89
96)	1,2,4-Trichlorobenzene	19.55	180	212916	21.2982	ug/L	100
97)	Hexachlorobutadiene	19.69	225	91388	20.7507	ug/L	99
98)	Naphthalene	19.90	128	414073	22.3154	ug/L	99
99)	1,2,3-Trichlorobenzene	20.19	180	193437	21.0836	ug/L	99

(#) = qualifier out of range (m) = manual integration
11M11842.D 8260WT.M Sat May 14 18:50:54 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051316\11M11842.D Vial: 7
Acq On : 13 May 2016 17:19 Operator: JDS
Sample : WG568769-07 20ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051316\11M11843.D Vial: 8
Acq On : 13 May 2016 17:51 Operator: JDS
Sample : WG568769-08 50ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50:56 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	521583	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.25	117	438582	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	263885	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.63	111	139784	24.4879	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 97.96%			
43) 1,2-Dichloroethane-d4	10.23	65	158200	24.3058	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 97.24%			
57) Toluene-d8	12.47	98	462969	24.2947	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 97.16%			
78) p-Bromofluorobenzene	15.64	95	188875	23.2189	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 92.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	416971	51.0228	ug/L	100
3) Chloromethane	3.72	50	287508	43.9273	ug/L	100
4) Vinyl Chloride	3.96	62	261024	48.0232	ug/L	100
5) 1,3-Butadiene	4.00	54	280913	51.9760	ug/L	100
6) Bromomethane	4.85	94	172294	46.1032	ug/L	100
7) Chloroethane	5.00	64	167978	48.0991	ug/L	100
8) Trichlorofluoromethane	5.48	101	519806	47.9806	ug/L	100
9) Diethyl ether	6.01	59	391891	97.8098	ug/L	100
10) Isoprene	6.04	67	331169	49.5943	ug/L	100
11) Acrolein	6.23	56	25228	47.9550	ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.25	101	255341	48.5730	ug/L	100
13) Acetone	6.34	43	57896	46.7459	ug/L	98
14) 1,1-Dichloroethene	6.56	61	459793	48.1534	ug/L	100
15) Tert-Butyl Alcohol	6.66	59	69395	202.5643	ug/L	100
16) Dimethyl Sulfide	6.81	62	193959	50.8640	ug/L	100
17) Iodomethane	7.06	142	214554	49.3519	ug/L	100
18) Methyl acetate	7.06	43	185465	48.1983	ug/L	100
19) Methylene Chloride	7.31	84	233601	47.2715	ug/L	100
20) Carbon Disulfide	7.36	76	816514	51.0786	ug/L	100
21) Acrylonitrile	7.49	53	84821	51.0789	ug/L	100
22) Methyl Tert Butyl Ether	7.52	73	610666	49.5457	ug/L	100
23) trans-1,2-Dichloroethene	7.74	96	252405	47.7624	ug/L	100
24) n-Hexane	7.82	57	449694	51.0913	ug/L	100
25) Diisopropyl ether	8.15	45	2181723	99.3365	ug/L	100
26) Vinyl Acetate	8.31	43	410275	48.2141	ug/L	100
27) 1,1-Dichloroethane	8.34	63	516691	48.7281	ug/L	100
28) Ethyl-Tert-Butyl ether	8.70	59	1783350	99.7625	ug/L	100
29) 2-Butanone	8.87	43	91238	48.7281	ug/L	100
30) Propionitrile	8.97	54	56538	103.0954	ug/L	100
31) 2,2-Dichloropropane	9.09	77	402511	48.5170	ug/L	100
32) cis-1,2-Dichloroethene	9.15	96	282222	48.4353	ug/L	100
33) Chloroform	9.35	83	489993	47.0562	ug/L	100
34) 1-Bromopropane	9.48	122	50180	48.4991	ug/L	100
35) Bromochloromethane	9.57	130	179921	51.9932	ug/L	100
36) Tetrahydrofuran	9.60	42	127999	96.8083	ug/L	100
38) 1,1,1-Trichloroethane	9.85	97	497667	48.5667	ug/L	100
39) Cyclohexane	9.88	56	575045	51.4928	ug/L	100
40) 1,1-Dichloropropene	10.04	75	353148	48.2674	ug/L	100
41) Carbon Tetrachloride	10.18	117	493225	49.2921	ug/L	100
42) Tert-Amyl-Methyl ether	10.13	73	1227500	98.8215	ug/L	100

(#) = qualifier out of range (m) = manual integration
11M11843.D 8260WT.M Sat May 14 18:50:57 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11843.D Vial: 8
Acq On : 13 May 2016 17:51 Operator: JDS
Sample : WG568769-08 50ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50:56 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

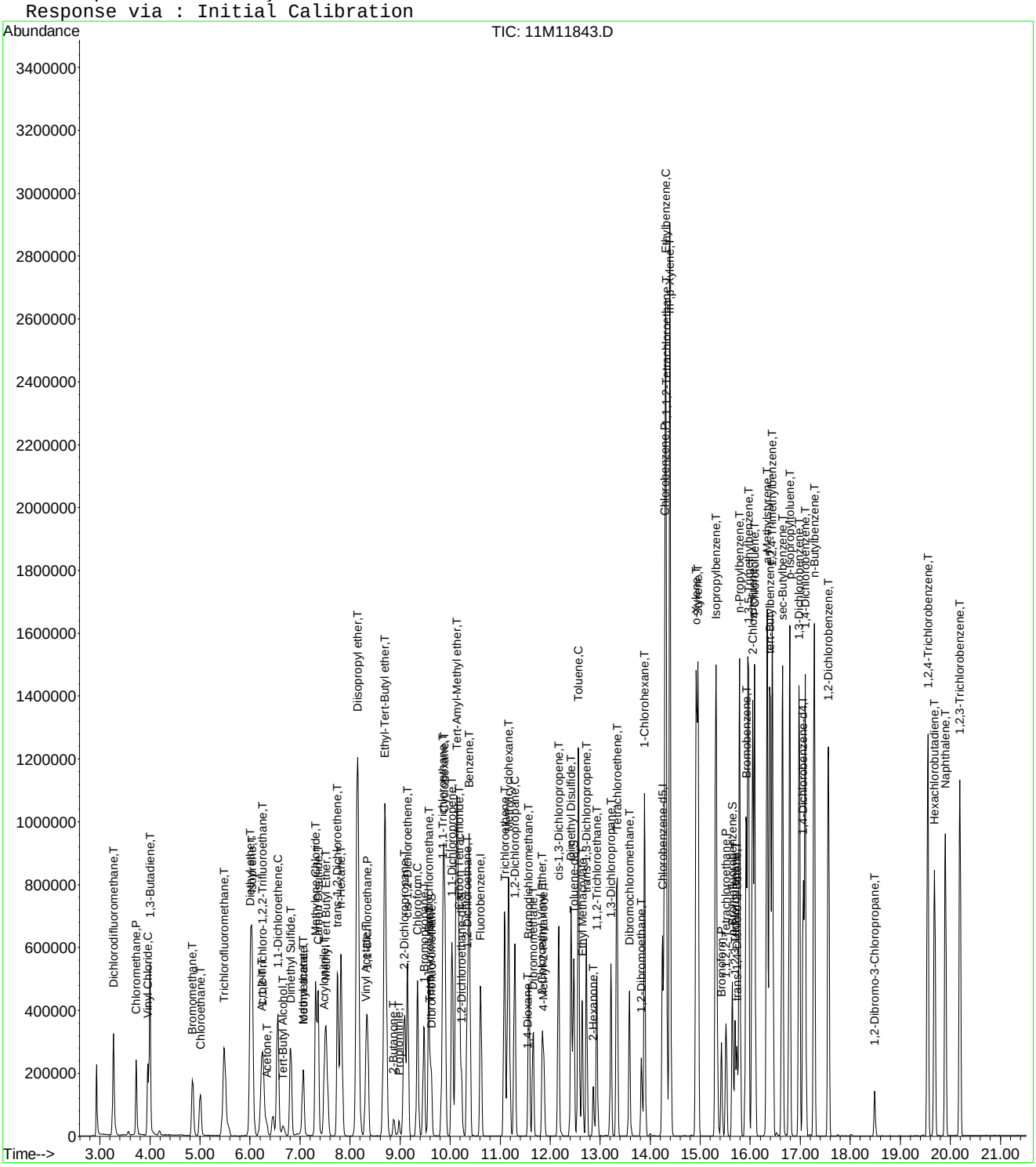
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	1,2-Dichloroethane	10.34	62	419000	49.5434 ug/L	100
45)	Benzene	10.38	78	947514	47.3064 ug/L	100
46)	Trichloroethene	11.09	130	307211	47.1888 ug/L	100
47)	Methylcyclohexane	11.17	83	418631	52.1043 ug/L	100
48)	1,2-Dichloropropane	11.29	63	268423	48.4136 ug/L	100
49)	1,4-Dioxane	11.55	88	5866	189.1665 ug/L	100
50)	Bromodichloromethane	11.57	83	385292	49.5015 ug/L	100
51)	Dibromomethane	11.65	93	142910	49.4635 ug/L	100
52)	2-Chloroethyl Vinyl Ether	11.84	63	133225	48.7541 ug/L	100
53)	4-Methyl-2-Pentanone	11.87	58	75720	49.1295 ug/L	100
54)	cis-1,3-Dichloropropene	12.17	75	394857	50.7199 ug/L	100
55)	Dimethyl Disulfide	12.42	79	236984	50.5867 ug/L	100
58)	Toluene	12.56	91	1095397	49.3360 ug/L	100
59)	Ethyl Methacrylate	12.65	69	249821	52.6944 ug/L	100
60)	trans-1,3-Dichloropropene	12.73	75	366443	51.4187 ug/L	100
61)	1,1,2-Trichloroethane	12.93	97	194150	49.3135 ug/L	100
62)	2-Hexanone	12.86	43	144364	49.9264 ug/L	100
63)	1,3-Dichloropropane	13.21	76	316783	50.1049 ug/L	100
64)	Tetrachloroethene	13.34	164	251037	48.6205 ug/L	100
65)	Dibromochloromethane	13.59	129	310662	51.7330 ug/L	100
66)	1,2-Dibromoethane	13.82	107	196704	49.8676 ug/L	100
67)	1-Chlorohexane	13.89	91	376690	51.4596 ug/L	100
68)	Chlorobenzene	14.29	112	797442	49.0276 ug/L	100
69)	1,1,1,2-Tetrachloroethane	14.32	131	325801	49.5033 ug/L	100
70)	Ethylbenzene	14.31	106	408749	49.0078 ug/L	100
71)	m-,p-Xylene	14.39	106	996141	98.2427 ug/L	100
72)	o-Xylene	14.92	106	492043	49.8632 ug/L	100
73)	Styrene	14.95	104	838125	51.4077 ug/L	100
74)	Bromoform	15.43	173	184100	50.5823 ug/L	100
75)	Isopropylbenzene	15.31	105	1309383	50.1751 ug/L	100
77)	1,1,2,2-Tetrachloroethane	15.52	83	208930	50.8426 ug/L	100
79)	1,2,3-Trichloropropane	15.70	110	72411	46.9859 ug/L	100
80)	trans-1,4-Dichloro-2-Buten	15.74	53	94075	47.5347 ug/L	100
81)	n-Propylbenzene	15.79	91	1522917	49.8325 ug/L	100
82)	Bromobenzene	15.92	156	379178	47.2834 ug/L	100
83)	1,3,5-Trimethylbenzene	15.96	105	1143246	49.0221 ug/L	100
84)	2-Chlorotoluene	16.05	91	1021921	47.7415 ug/L	100
85)	4-Chlorotoluene	16.09	91	930690	48.5394 ug/L	100
86)	a-Methylstyrene	16.34	118	649847	52.8208 ug/L	100
87)	tert-Butylbenzene	16.40	134	241955	48.9705 ug/L	100
88)	1,2,4-Trimethylbenzene	16.44	105	1178963	49.6454 ug/L	100
89)	sec-Butylbenzene	16.65	105	1390388	49.6522 ug/L	100
90)	p-Isopropyltoluene	16.79	119	1282252	49.8529 ug/L	100
91)	1,3-Dichlorobenzene	16.98	146	737967	47.6473 ug/L	100
92)	1,4-Dichlorobenzene	17.10	146	740977	47.1987 ug/L	100
93)	n-Butylbenzene	17.28	91	1126170	49.6883 ug/L	100
94)	1,2-Dichlorobenzene	17.57	146	684016	48.4812 ug/L	100
95)	1,2-Dibromo-3-Chloropropan	18.49	75	42848	46.3023 ug/L	100
96)	1,2,4-Trichlorobenzene	19.55	180	512927	49.6830 ug/L	100
97)	Hexachlorobutadiene	19.69	225	219129	48.1793 ug/L	100
98)	Naphthalene	19.90	128	962852	50.2463 ug/L	100
99)	1,2,3-Trichlorobenzene	20.19	180	453828	47.8975 ug/L	100

(#) = qualifier out of range (m) = manual integration
11M11843.D 8260WT.M Sat May 14 18:50:57 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051316\11M11843.D Vial: 8
Acq On : 13 May 2016 17:51 Operator: JDS
Sample : WG568769-08 50ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051316\11M11844.D Vial: 9
Acq On : 13 May 2016 18:22 Operator: JDS
Sample : WG568769-09 100ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50:57 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	541540	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.25	117	458522	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	275719	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.63	111	307700	51.9175	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 207.68%#			
43) 1,2-Dichloroethane-d4	10.23	65	345779	51.1676	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 204.68%#			
57) Toluene-d8	12.47	98	1011334	50.7627	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 203.04%#			
78) p-Bromofluorobenzene	15.64	95	423157	49.7872	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 199.16%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	918088	108.2020	ug/L	100
3) Chloromethane	3.72	50	641242	94.3625	ug/L	99
4) Vinyl Chloride	3.95	62	586615	103.9481	ug/L	100
5) 1,3-Butadiene	3.99	54	571156	101.7838	ug/L	99
6) Bromomethane	4.85	94	394826	101.7560	ug/L	99
7) Chloroethane	5.00	64	370541	102.1913	ug/L	99
8) Trichlorofluoromethane	5.48	101	1135647	100.9627	ug/L	98
9) Diethyl ether	6.01	59	836495	201.0821	ug/L	99
10) Isoprene	6.04	67	699724	100.9257	ug/L	100
11) Acrolein	6.24	56	55228	99.4421	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.26	101	545013	99.8560	ug/L	100
13) Acetone	6.34	43	123799	96.2731	ug/L	95
14) 1,1-Dichloroethene	6.56	61	1004294	101.3022	ug/L	100
15) Tert-Butyl Alcohol	6.66	59	148134	416.4687	ug/L	98
16) Dimethyl Sulfide	6.81	62	401237	101.3432	ug/L	100
17) Iodomethane	7.06	142	471112	102.3553	ug/L	100
18) Methyl acetate	7.07	43	381031	98.0957	ug/L	99
19) Methylene Chloride	7.31	84	501609	97.7649	ug/L	99
20) Carbon Disulfide	7.36	76	1695322	102.1458	ug/L	100
21) Acrylonitrile	7.49	53	184461	106.9881	ug/L	99
22) Methyl Tert Butyl Ether	7.52	73	1312901	102.5951	ug/L	100
23) trans-1,2-Dichloroethene	7.74	96	542907	98.9478	ug/L	98
24) n-Hexane	7.82	57	921942	100.8849	ug/L	99
25) Diisopropyl ether	8.15	45	4599625	201.7086	ug/L	99
26) Vinyl Acetate	8.31	43	855488	94.3763	ug/L	99
27) 1,1-Dichloroethane	8.34	63	1111115	100.9254	ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	3780769	203.7060	ug/L	100
29) 2-Butanone	8.87	43	198511	102.1130	ug/L	100
30) Propionitrile	8.98	54	118699	208.4678	ug/L	97
31) 2,2-Dichloropropane	9.09	77	914695	106.1904	ug/L	100
32) cis-1,2-Dichloroethene	9.15	96	606774	100.2977	ug/L	99
33) Chloroform	9.35	83	1053766	97.4685	ug/L	100
34) 1-Bromopropane	9.48	122	106914	98.8615	ug/L	100
35) Bromochloromethane	9.57	130	387239	107.7795	ug/L	100
36) Tetrahydrofuran	9.60	42	270148	196.7890	ug/L	99
38) 1,1,1-Trichloroethane	9.85	97	1088263	102.2884	ug/L	99
39) Cyclohexane	9.88	56	1213186	104.6320	ug/L	100
40) 1,1-Dichloropropene	10.04	75	775674	102.1101	ug/L	98
41) Carbon Tetrachloride	10.18	117	1074698	103.4456	ug/L	99
42) Tert-Amyl-Methyl ether	10.13	73	2619501	203.1147	ug/L	99

(#) = qualifier out of range (m) = manual integration
11M11844.D 8260WT.M Sat May 14 18:50:58 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11844.D Vial: 9
Acq On : 13 May 2016 18:22 Operator: JDS
Sample : WG568769-09 100ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50:57 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

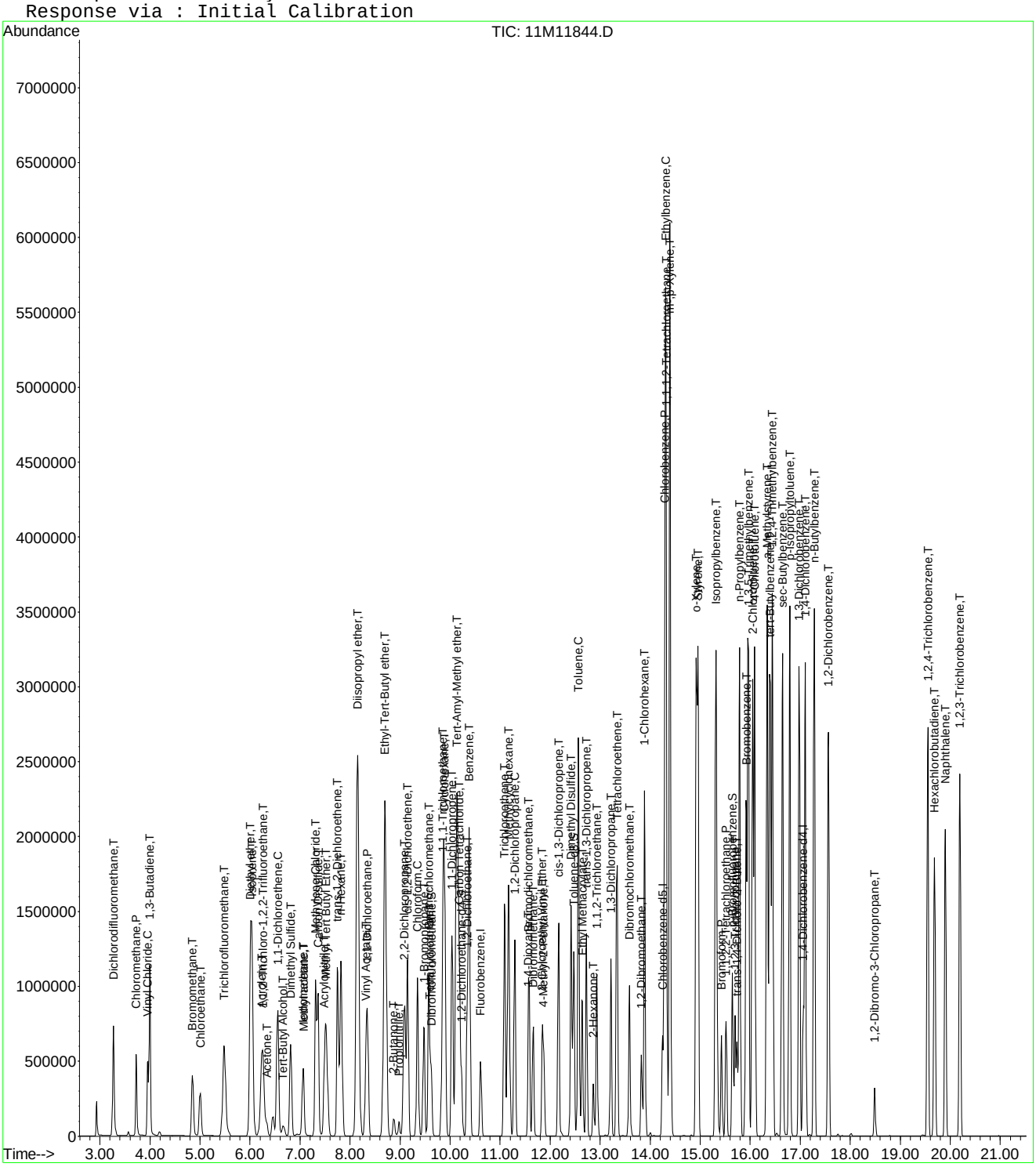
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	1,2-Dichloroethane	10.34	62	895394	101.9714 ug/L	100
45)	Benzene	10.38	78	2041856	98.1867 ug/L	100
46)	Trichloroethene	11.08	130	677193	100.1861 ug/L	99
47)	Methylcyclohexane	11.17	83	867487	103.9915 ug/L	100
48)	1,2-Dichloropropane	11.29	63	580562	100.8530 ug/L	98
49)	1,4-Dioxane	11.56	88	13651	395.0901 ug/L	100
50)	Bromodichloromethane	11.57	83	837797	103.6717 ug/L	99
51)	Dibromomethane	11.65	93	315786	105.2707 ug/L	99
52)	2-Chloroethyl Vinyl Ether	11.84	63	293822	103.5626 ug/L	100
53)	4-Methyl-2-Pentanone	11.87	58	164890	103.0430 ug/L	98
54)	cis-1,3-Dichloropropene	12.17	75	854611	105.7305 ug/L	99
55)	Dimethyl Disulfide	12.42	79	505463	103.9202 ug/L	99
58)	Toluene	12.56	91	2361378	101.7300 ug/L	100
59)	Ethyl Methacrylate	12.65	69	529740	106.8782 ug/L	98
60)	trans-1,3-Dichloropropene	12.73	75	793063	106.4420 ug/L	99
61)	1,1,2-Trichloroethane	12.94	97	418327	101.6330 ug/L	99
62)	2-Hexanone	12.86	43	314588	104.0648 ug/L	99
63)	1,3-Dichloropropane	13.21	76	685844	103.7610 ug/L	100
64)	Tetrachloroethene	13.34	164	550335	101.9528 ug/L	99
65)	Dibromochloromethane	13.59	129	681591	108.5659 ug/L	100
66)	1,2-Dibromoethane	13.82	107	427945	103.7729 ug/L	99
67)	1-Chlorohexane	13.89	91	807177	105.4730 ug/L	98
68)	Chlorobenzene	14.29	112	1705646	100.3046 ug/L	99
69)	1,1,1,2-Tetrachloroethane	14.32	131	704959	102.4557 ug/L	100
70)	Ethylbenzene	14.31	106	883839	101.3614 ug/L	99
71)	m-,p-Xylene	14.39	106	2123651	200.3333 ug/L	98
72)	o-Xylene	14.92	106	1053682	102.1356 ug/L	100
73)	Styrene	14.95	104	1807222	106.0282 ug/L	99
74)	Bromoform	15.43	173	412378	108.3755 ug/L	100
75)	Isopropylbenzene	15.31	105	2813193	103.1127 ug/L	99
77)	1,1,2,2-Tetrachloroethane	15.52	83	454052	105.7501 ug/L	99
79)	1,2,3-Trichloropropane	15.70	110	156532	96.8210 ug/L	100
80)	trans-1,4-Dichloro-2-Buten	15.74	53	203327	97.5343 ug/L	96
81)	n-Propylbenzene	15.79	91	3285915	102.9061 ug/L	99
82)	Bromobenzene	15.92	156	828973	98.9359 ug/L	99
83)	1,3,5-Trimethylbenzene	15.96	105	2483230	101.9102 ug/L	100
84)	2-Chlorotoluene	16.05	91	2208423	98.7437 ug/L	100
85)	4-Chlorotoluene	16.09	91	2020827	100.8710 ug/L	100
86)	a-Methylstyrene	16.34	118	1361545	105.9190 ug/L	99
87)	tert-Butylbenzene	16.40	134	532522	103.1540 ug/L	98
88)	1,2,4-Trimethylbenzene	16.44	105	2546912	102.6457 ug/L	100
89)	sec-Butylbenzene	16.65	105	3003570	102.6569 ug/L	99
90)	p-Isopropyltoluene	16.79	119	2763313	102.8241 ug/L	99
91)	1,3-Dichlorobenzene	16.98	146	1600684	98.9134 ug/L	100
92)	1,4-Dichlorobenzene	17.10	146	1605475	97.8762 ug/L	100
93)	n-Butylbenzene	17.28	91	2452438	103.5609 ug/L	100
94)	1,2-Dichlorobenzene	17.57	146	1481276	100.4827 ug/L	100
95)	1,2-Dibromo-3-Chloropropan	18.49	75	95062	97.5959 ug/L	99
96)	1,2,4-Trichlorobenzene	19.55	180	1100416	102.0133 ug/L	100
97)	Hexachlorobutadiene	19.69	225	486893	102.4572 ug/L	100
98)	Naphthalene	19.90	128	2071229	103.4477 ug/L	100
99)	1,2,3-Trichlorobenzene	20.19	180	980181	99.0092 ug/L	99

(#) = qualifier out of range (m) = manual integration
11M11844.D 8260WT.M Sat May 14 18:50:58 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051316\11M11844.D Vial: 9
Acq On : 13 May 2016 18:22 Operator: JDS
Sample : WG568769-09 100ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration



11M11844.D 8260WT.M Sat May 14 18:50:59 2016 Page 3

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051316\11M11845.D Vial: 10
Acq On : 13 May 2016 18:54 Operator: JDS
Sample : WG568769-10 200ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50:59 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.61	96	552905	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.25	117	473364	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	274188	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.63	111	629894	104.0960 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 416.40%#		
43) 1,2-Dichloroethane-d4	10.23	65	684792	99.2511 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 397.00%#		
57) Toluene-d8	12.47	98	2068111	100.5516 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 402.20%#		
78) p-Bromofluorobenzene	15.64	95	864999	102.3411 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 409.36%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	1843265	212.7741 ug/L	99
3) Chloromethane	3.72	50	1346993	194.1434 ug/L	100
4) Vinyl Chloride	3.95	62	1199147	208.1209 ug/L	100
5) 1,3-Butadiene	3.99	54	1131910	197.5677 ug/L	97
6) Bromomethane	4.85	94	859963	217.0771 ug/L	100
7) Chloroethane	5.00	64	764060	206.3883 ug/L	100
8) Trichlorofluoromethane	5.48	101	2275404	198.1327 ug/L	100
9) Diethyl ether	6.03	59	2592	0.6103 ug/L #	21
10) Isoprene	6.04	67	1435794	202.8369 ug/L	97
11) Acrolein	6.25	56	3061	6.8231 ug/L	88
12) 1,1,2-Trichloro-1,2,2-Trif	6.25	101	1123889	201.6837 ug/L	99
13) Acetone	6.34	43	254053	193.5049 ug/L	96
14) 1,1-Dichloroethene	6.56	61	2040432	201.5858 ug/L	99
15) Tert-Butyl Alcohol	6.67	59	7729	21.2829 ug/L #	82
16) Dimethyl Sulfide	6.81	62	830179	205.3739 ug/L	99
17) Iodomethane	7.06	142	969857	206.1133 ug/L	99
18) Methyl acetate	7.07	43	749575	196.5068 ug/L	97
19) Methylene Chloride	7.31	84	1035656	197.7029 ug/L	97
20) Carbon Disulfide	7.36	76	3459748	204.1704 ug/L	99
21) Acrylonitrile	7.52	53	35662	20.2589 ug/L #	39
22) Methyl Tert Butyl Ether	7.52	73	2706665	207.1616 ug/L	100
23) trans-1,2-Dichloroethene	7.74	96	1121963	200.2808 ug/L	99
24) n-Hexane	7.82	57	1873652	200.8128 ug/L	99
25) Diisopropyl ether	8.16	45	16567	0.7116 ug/L #	87
26) Vinyl Acetate	8.31	43	1904053	202.8645 ug/L	100
27) 1,1-Dichloroethane	8.34	63	2261904	201.2314 ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	9063	0.4783 ug/L	90
29) 2-Butanone	8.87	43	407543	205.3288 ug/L	99
30) Propionitrile	8.97	54	4182	7.1938 ug/L #	60
31) 2,2-Dichloropropane	9.09	77	1850091	210.3692 ug/L	100
32) cis-1,2-Dichloroethene	9.15	96	1257477	203.5843 ug/L	100
33) Chloroform	9.35	83	2160999	195.7739 ug/L	100
34) 1-Bromopropane	9.48	122	222798	201.1267 ug/L	98
35) Bromochloromethane	9.57	130	798076	217.5612 ug/L	99
36) Tetrahydrofuran	9.60	42	9110	6.4998 ug/L	97
38) 1,1,1-Trichloroethane	9.85	97	2208198	203.2875 ug/L	99
39) Cyclohexane	9.88	56	2467804	208.4625 ug/L	100
40) 1,1-Dichloropropene	10.04	75	1587009	204.6205 ug/L	99
41) Carbon Tetrachloride	10.18	117	2174730	205.0269 ug/L	99
42) Tert-Amyl-Methyl ether	10.13	73	6538	0.4965 ug/L #	83

(#) = qualifier out of range (m) = manual integration
11M11845.D 8260WT.M Sat May 14 18:51:00 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11845.D Vial: 10
Acq On : 13 May 2016 18:54 Operator: JDS
Sample : WG568769-10 200ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50:59 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

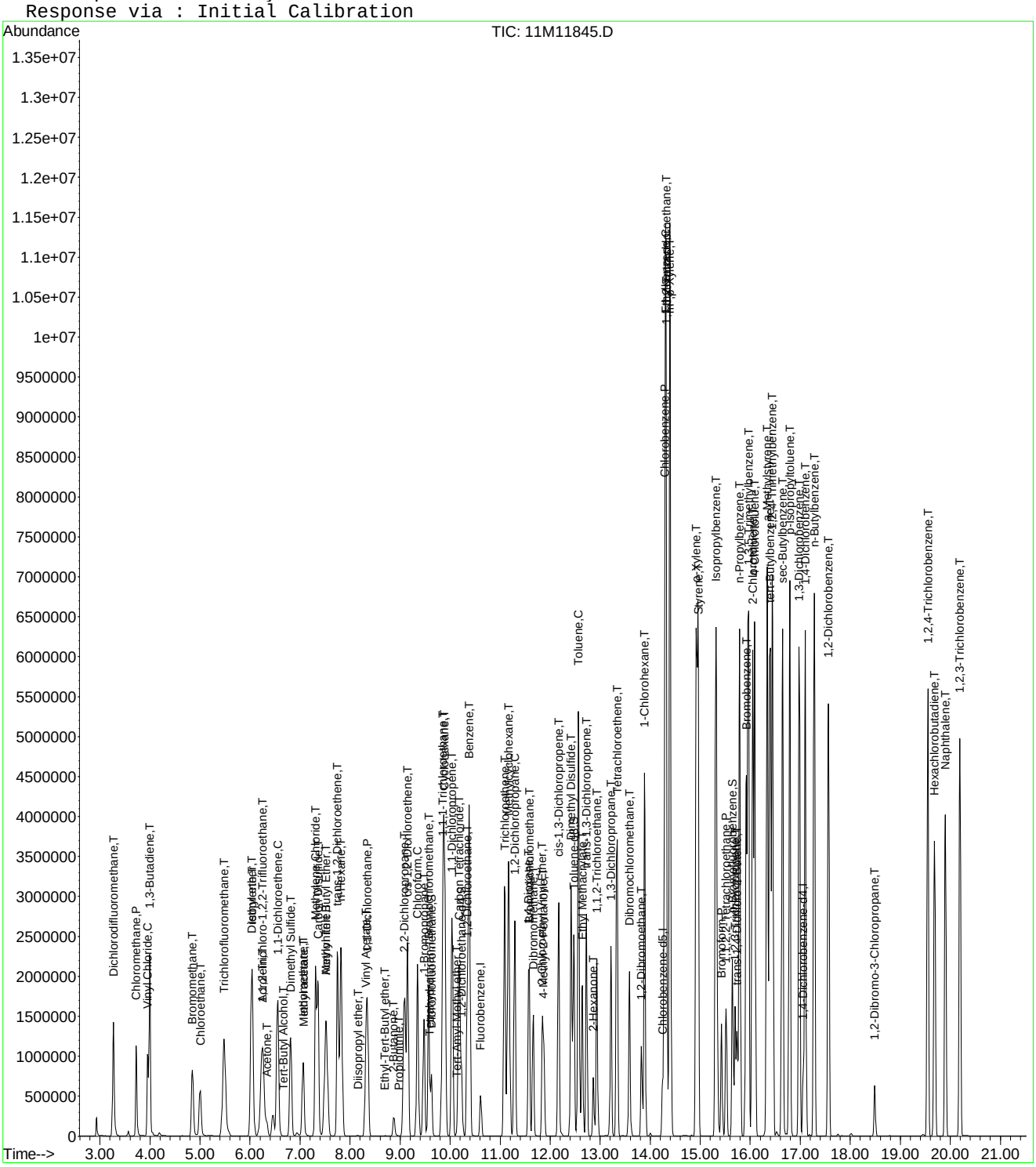
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloroethane	10.34	62	1808450	201.7209	ug/L	99
45)	Benzene	10.38	78	4119227	194.0096	ug/L	99
46)	Trichloroethene	11.09	130	1367103	198.0963	ug/L	100
47)	Methylcyclohexane	11.17	83	1789256	210.0812	ug/L	99
48)	1,2-Dichloropropane	11.29	63	1196100	203.5109	ug/L	99
49)	1,4-Dioxane	11.57	88	2656	94.1370	ug/L #	31
50)	Bromodichloromethane	11.58	83	1721733	208.6734	ug/L	99
51)	Dibromomethane	11.66	93	641583	209.4825	ug/L	100
52)	2-Chloroethyl Vinyl Ether	11.84	63	608231	209.9748	ug/L	99
53)	4-Methyl-2-Pentanone	11.87	58	342251	209.4831	ug/L	99
54)	cis-1,3-Dichloropropene	12.17	75	1772737	214.8108	ug/L	100
55)	Dimethyl Disulfide	12.42	79	1052498	211.9395	ug/L	98
58)	Toluene	12.56	91	4699240	196.0993	ug/L	98
59)	Ethyl Methacrylate	12.65	69	1101451	215.2567	ug/L	97
60)	trans-1,3-Dichloropropene	12.73	75	1627488	211.5866	ug/L	99
61)	1,1,2-Trichloroethane	12.93	97	860113	202.4133	ug/L	99
62)	2-Hexanone	12.86	43	651287	208.6888	ug/L	99
63)	1,3-Dichloropropane	13.21	76	1412360	206.9756	ug/L	99
64)	Tetrachloroethene	13.34	164	1133410	203.3874	ug/L	99
65)	Dibromochloromethane	13.59	129	1409248	217.4313	ug/L	99
66)	1,2-Dibromoethane	13.82	107	889951	209.0389	ug/L	99
67)	1-Chlorohexane	13.89	91	1659272	210.0173	ug/L	97
68)	Chlorobenzene	14.29	112	3416597	194.6214	ug/L	98
69)	1,1,1,2-Tetrachloroethane	14.32	131	1457008	205.1158	ug/L	100
70)	Ethylbenzene	14.31	106	1814385	201.5551	ug/L	91
71)	m-,p-Xylene	14.39	106	4230307	386.5510	ug/L	85
72)	o-Xylene	14.92	106	2156790	202.5071	ug/L	96
73)	Styrene	14.96	104	3630570	206.3240	ug/L	98
74)	Bromoform	15.43	173	854308	217.4778	ug/L	100
75)	Isopropylbenzene	15.31	105	5485636	194.7621	ug/L	97
77)	1,1,2,2-Tetrachloroethane	15.52	83	939708	220.0830	ug/L	98
79)	1,2,3-Trichloropropane	15.70	110	325518	202.0716	ug/L	99
80)	trans-1,4-Dichloro-2-Buten	15.74	53	421012	202.2796	ug/L	97
81)	n-Propylbenzene	15.79	91	6220435	195.8952	ug/L	95
82)	Bromobenzene	15.92	156	1685980	202.3412	ug/L	99
83)	1,3,5-Trimethylbenzene	15.96	105	4875063	201.1866	ug/L	97
84)	2-Chlorotoluene	16.05	91	4287026	192.7532	ug/L	98
85)	4-Chlorotoluene	16.09	91	4030756	202.3214	ug/L	98
86)	a-Methylstyrene	16.34	118	2724122	213.1015	ug/L	98
87)	tert-Butylbenzene	16.40	134	1075661	209.5280	ug/L	96
88)	1,2,4-Trimethylbenzene	16.44	105	4921395	199.4496	ug/L	97
89)	sec-Butylbenzene	16.65	105	5740919	197.3104	ug/L	97
90)	p-Isopropyltoluene	16.79	119	5274037	197.3451	ug/L	95
91)	1,3-Dichlorobenzene	16.98	146	3171808	197.0945	ug/L	99
92)	1,4-Dichlorobenzene	17.10	146	3145357	192.8244	ug/L	99
93)	n-Butylbenzene	17.28	91	4684496	198.9203	ug/L	97
94)	1,2-Dichlorobenzene	17.57	146	2909224	198.4498	ug/L	99
95)	1,2-Dibromo-3-Chloropropan	18.49	75	191088	196.6217	ug/L	99
96)	1,2,4-Trichlorobenzene	19.55	180	2198003	204.9021	ug/L	99
97)	Hexachlorobutadiene	19.69	225	969160	205.0797	ug/L	99
98)	Naphthalene	19.90	128	3994903	200.6399	ug/L	98
99)	1,2,3-Trichlorobenzene	20.19	180	1999949	203.1452	ug/L	99

(#) = qualifier out of range (m) = manual integration
11M11845.D 8260WT.M Sat May 14 18:51:00 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051316\11M11845.D Vial: 10
Acq On : 13 May 2016 18:54 Operator: JDS
Sample : WG568769-10 200ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:50 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051316\11M11846.D Vial: 11
Acq On : 13 May 2016 19:26 Operator: JDS
Sample : WG568769-11 300ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:51:01 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	543599	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.25	117	479542	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	277309	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.63	111	905755	152.2472	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 609.00%#			
43) 1,2-Dichloroethane-d4	10.23	65	970758	143.1066	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 572.44%#			
57) Toluene-d8	12.47	98	3002456	144.0987	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 576.40%#			
78) p-Bromofluorobenzene	15.64	95	1285822	150.4179	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 601.68%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	2762707	324.3678	ug/L	99
3) Chloromethane	3.72	50	2113477	309.8323	ug/L	100
4) Vinyl Chloride	3.95	62	1802126	318.1269	ug/L	100
5) 1,3-Butadiene	3.99	54	1562377	277.3715	ug/L	98
6) Bromomethane	4.85	94	1341865	344.5204	ug/L	100
7) Chloroethane	5.00	64	1181546	324.6236	ug/L	100
8) Trichlorofluoromethane	5.48	101	3351045	296.7904	ug/L	99
9) Diethyl ether	6.01	59	1250668	299.5049	ug/L	97
10) Isoprene	6.04	67	2121830	304.8859	ug/L	97
11) Acrolein	6.23	56	87016	155.2272	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.25	101	1679276	306.5076	ug/L	99
13) Acetone	6.34	43	352141	272.8074	ug/L	95
14) 1,1-Dichloroethene	6.56	61	3009080	302.3733	ug/L	98
15) Tert-Butyl Alcohol	6.67	59	227782	637.9680	ug/L	97
16) Dimethyl Sulfide	6.81	62	1199487	301.8151	ug/L	96
17) Iodomethane	7.06	142	1359092	295.3515	ug/L	96
18) Methyl acetate	7.07	43	1093862	303.3719	ug/L	97
19) Methylene Chloride	7.31	84	1550974	301.1438	ug/L	91
20) Carbon Disulfide	7.36	76	5025219	301.6304	ug/L	99
21) Acrylonitrile	7.49	53	292311	168.8994	ug/L	94
22) Methyl Tert Butyl Ether	7.52	73	3880019	302.0512	ug/L	100
23) trans-1,2-Dichloroethene	7.74	96	1693308	307.4459	ug/L	98
24) n-Hexane	7.82	57	2752540	300.0599	ug/L	99
25) Diisopropyl ether	8.15	45	6621718	289.2841	ug/L	99
26) Vinyl Acetate	8.31	43	2814279	303.7518	ug/L	99
27) 1,1-Dichloroethane	8.34	63	3313473	299.8312	ug/L	98
28) Ethyl-Tert-Butyl ether	8.70	59	5508427	295.6672	ug/L	99
29) 2-Butanone	8.87	43	590742	302.7235	ug/L	97
30) Propionitrile	8.99	54	177454	310.4771	ug/L	98
31) 2,2-Dichloropropane	9.09	77	2735421	316.3626	ug/L	99
32) cis-1,2-Dichloroethene	9.15	96	1856543	305.7181	ug/L	98
33) Chloroform	9.35	83	3144758	289.7739	ug/L	100
34) 1-Bromopropane	9.48	122	329211	301.9597	ug/L	98
35) Bromochloromethane	9.57	130	1179409	327.0194	ug/L	97
36) Tetrahydrofuran	9.60	42	386389	280.3985	ug/L	96
38) 1,1,1-Trichloroethane	9.85	97	3227247	302.1877	ug/L	99
39) Cyclohexane	9.88	56	3625895	311.5332	ug/L	99
40) 1,1-Dichloropropene	10.04	75	2360605	309.5743	ug/L	100
41) Carbon Tetrachloride	10.18	117	3172921	304.2542	ug/L	99
42) Tert-Amyl-Methyl ether	10.13	73	3912691	302.2388	ug/L	97

(#) = qualifier out of range (m) = manual integration
11M11846.D 8260WT.M Sat May 14 18:51:02 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11846.D Vial: 11
Acq On : 13 May 2016 19:26 Operator: JDS
Sample : WG568769-11 300ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:51:01 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

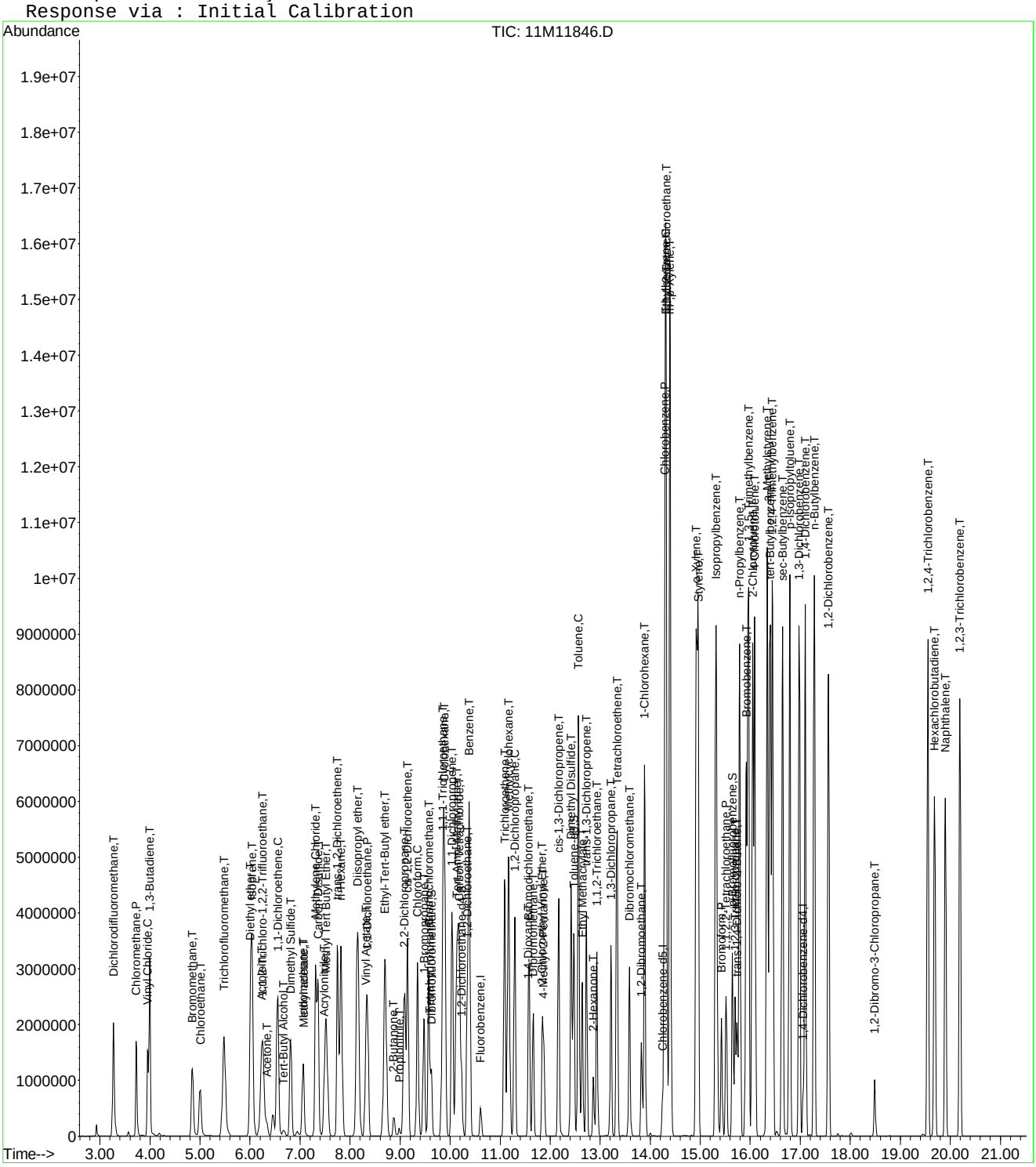
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	1,2-Dichloroethane	10.34	62	2551762	289.5052	ug/L	98
45)	Benzene	10.38	78	5961793	285.5987	ug/L	97
46)	Trichloroethene	11.09	130	2025948	298.5901	ug/L	99
47)	Methylcyclohexane	11.17	83	2657028	317.3092	ug/L	98
48)	1,2-Dichloropropane	11.29	63	1781372	308.2809	ug/L	96
49)	1,4-Dioxane	11.56	88	21540	607.7372	ug/L	100
50)	Bromodichloromethane	11.57	83	2511276	309.5762	ug/L	100
51)	Dibromomethane	11.65	93	939605	312.0413	ug/L	99
52)	2-Chloroethyl Vinyl Ether	11.84	63	879534	308.8327	ug/L	100
53)	4-Methyl-2-Pentanone	11.87	58	505191	314.5081	ug/L	99
54)	cis-1,3-Dichloropropene	12.17	75	2604960	321.0589	ug/L	99
55)	Dimethyl Disulfide	12.42	79	1529785	313.3234	ug/L	99
58)	Toluene	12.56	91	6613670	272.4329	ug/L	95
59)	Ethyl Methacrylate	12.65	69	1618015	312.1351	ug/L	94
60)	trans-1,3-Dichloropropene	12.73	75	2369133	304.0383	ug/L	98
61)	1,1,2-Trichloroethane	12.93	97	1271039	295.2644	ug/L	98
62)	2-Hexanone	12.86	43	950079	300.5074	ug/L	97
63)	1,3-Dichloropropane	13.21	76	2062188	298.3119	ug/L	97
64)	Tetrachloroethene	13.34	164	1691190	299.5697	ug/L	98
65)	Dibromochloromethane	13.59	129	2065480	314.5750	ug/L	100
66)	1,2-Dibromoethane	13.82	107	1334668	309.4588	ug/L	99
67)	1-Chlorohexane	13.89	91	2483371	310.2757	ug/L	95
68)	Chlorobenzene	14.29	112	4911463	276.1698	ug/L	96
69)	1,1,1,2-Tetrachloroethane	14.32	131	2161701	300.4009	ug/L	100
70)	Ethylbenzene	14.31	106	2715675	297.7904	ug/L	79
71)	m-,p-Xylene	14.39	106	6004062	541.5626	ug/L	73
72)	o-Xylene	14.92	106	3202500	296.8179	ug/L	90
73)	Styrene	14.96	104	5278134	296.0902	ug/L	96
74)	Bromoform	15.43	173	1313245	330.0007	ug/L	100
75)	Isopropylbenzene	15.31	105	7610374	266.7178	ug/L	92
77)	1,1,2,2-Tetrachloroethane	15.52	83	1470787	340.5868	ug/L	97
79)	1,2,3-Trichloropropane	15.70	110	494041	303.0514	ug/L	98
80)	trans-1,4-Dichloro-2-Buten	15.74	53	640812	304.0444	ug/L	94
81)	n-Propylbenzene	15.79	91	8405785	261.7374	ug/L	88
82)	Bromobenzene	15.92	156	2530711	300.3025	ug/L	98
83)	1,3,5-Trimethylbenzene	15.96	105	6851753	279.5793	ug/L	93
84)	2-Chlorotoluene	16.05	91	6055423	269.1996	ug/L	95
85)	4-Chlorotoluene	16.09	91	5712933	283.5299	ug/L	94
86)	a-Methylstyrene	16.34	118	4020347	310.9625	ug/L	96
87)	tert-Butylbenzene	16.40	134	1654009	318.5583	ug/L	89
88)	1,2,4-Trimethylbenzene	16.44	105	6879061	275.6504	ug/L	91
89)	sec-Butylbenzene	16.65	105	7999374	271.8373	ug/L	92
90)	p-Isopropyltoluene	16.79	119	7406083	274.0036	ug/L	90
91)	1,3-Dichlorobenzene	16.98	146	4679194	287.4903	ug/L	97
92)	1,4-Dichlorobenzene	17.10	146	4642399	281.3967	ug/L	96
93)	n-Butylbenzene	17.28	91	6723928	282.3084	ug/L	93
94)	1,2-Dichlorobenzene	17.57	146	4360022	294.0672	ug/L	96
95)	1,2-Dibromo-3-Chloropropan	18.49	75	302346	307.2381	ug/L	100
96)	1,2,4-Trichlorobenzene	19.55	180	3482946	321.0328	ug/L	97
97)	Hexachlorobutadiene	19.69	225	1629665	340.9652	ug/L	98
98)	Naphthalene	19.90	128	5970381	296.4815	ug/L #	96
99)	1,2,3-Trichlorobenzene	20.19	180	3137470	315.1025	ug/L	98

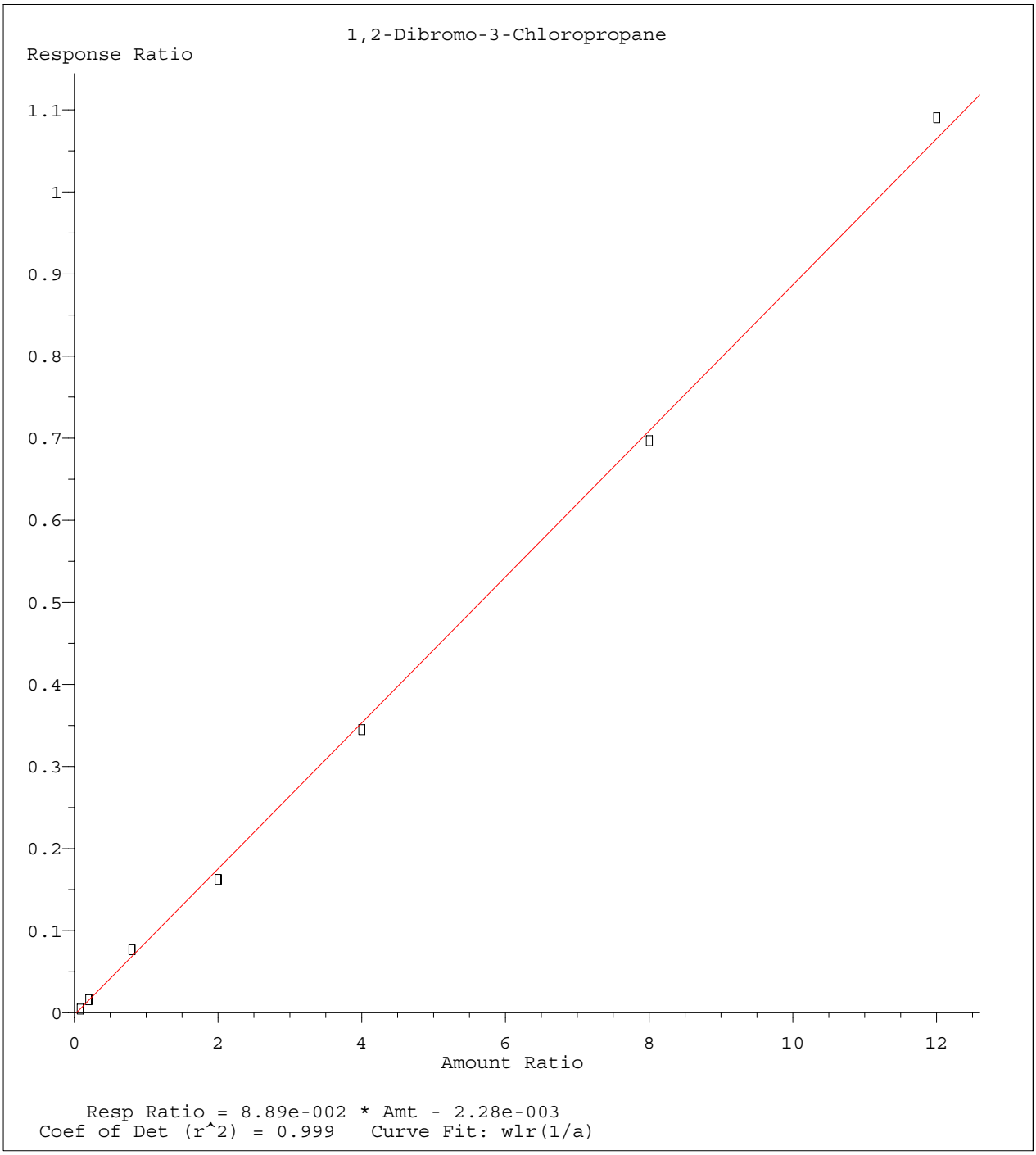
(#) = qualifier out of range (m) = manual integration
11M11846.D 8260WT.M Sat May 14 18:51:02 2016 Page 2

Quantitation Report (Not Reviewed)

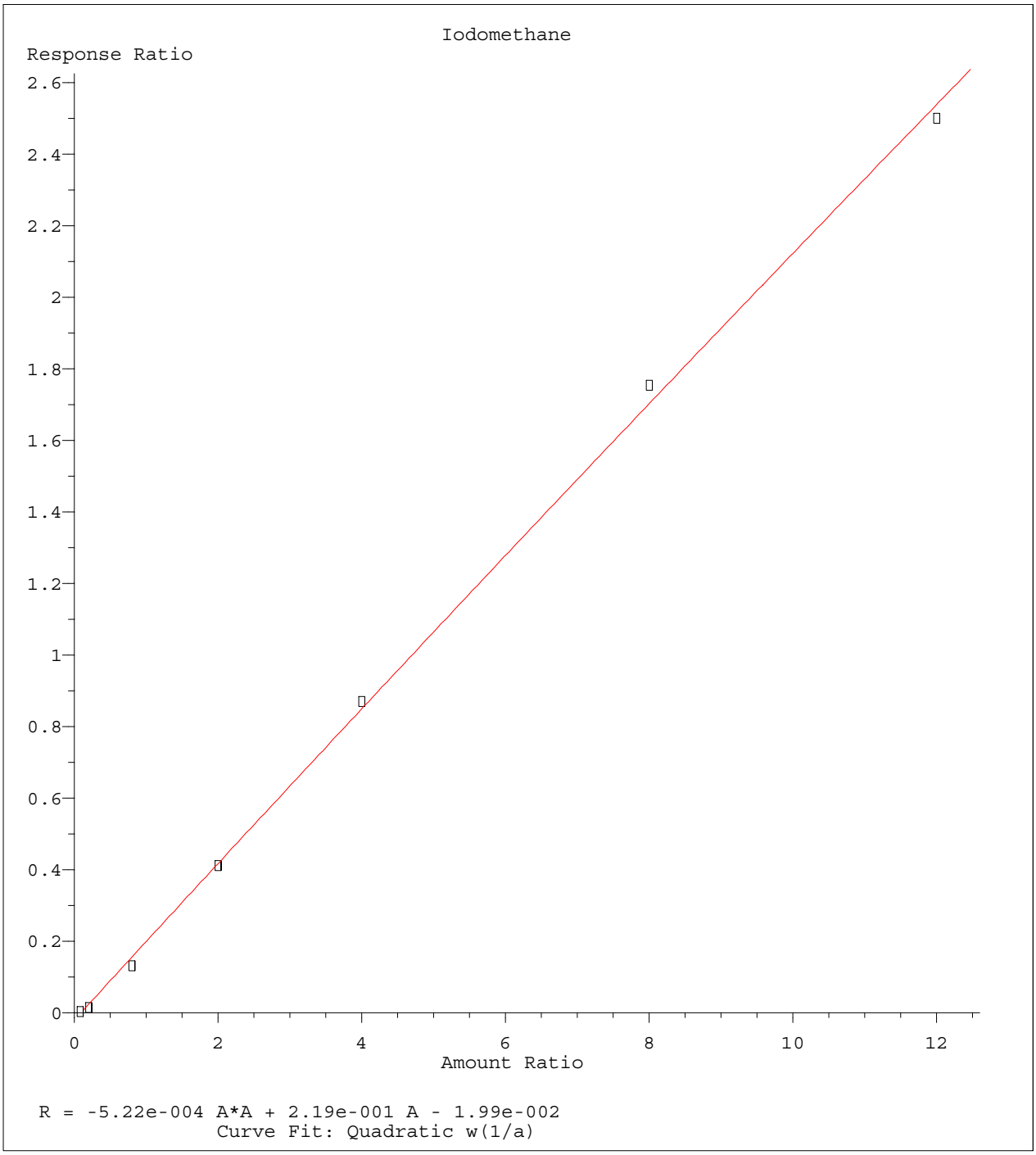
Data File : C:\MSDCHEM\1\DATA\051316\11M11846.D Vial: 11
Acq On : 13 May 2016 19:26 Operator: JDS
Sample : WG568769-11 300ug/L ICAL STD 8260 Inst : hpms11
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:51 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration

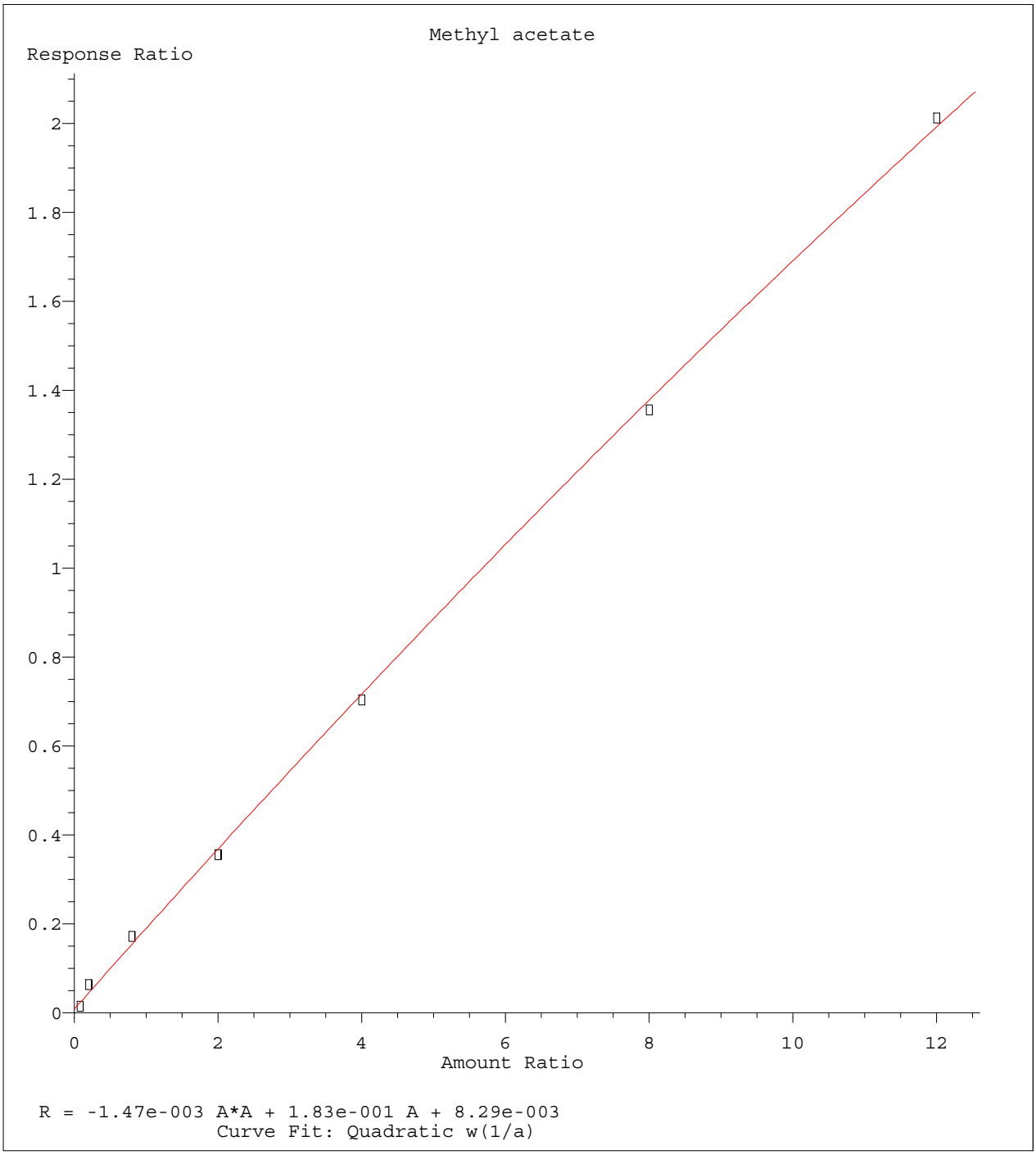




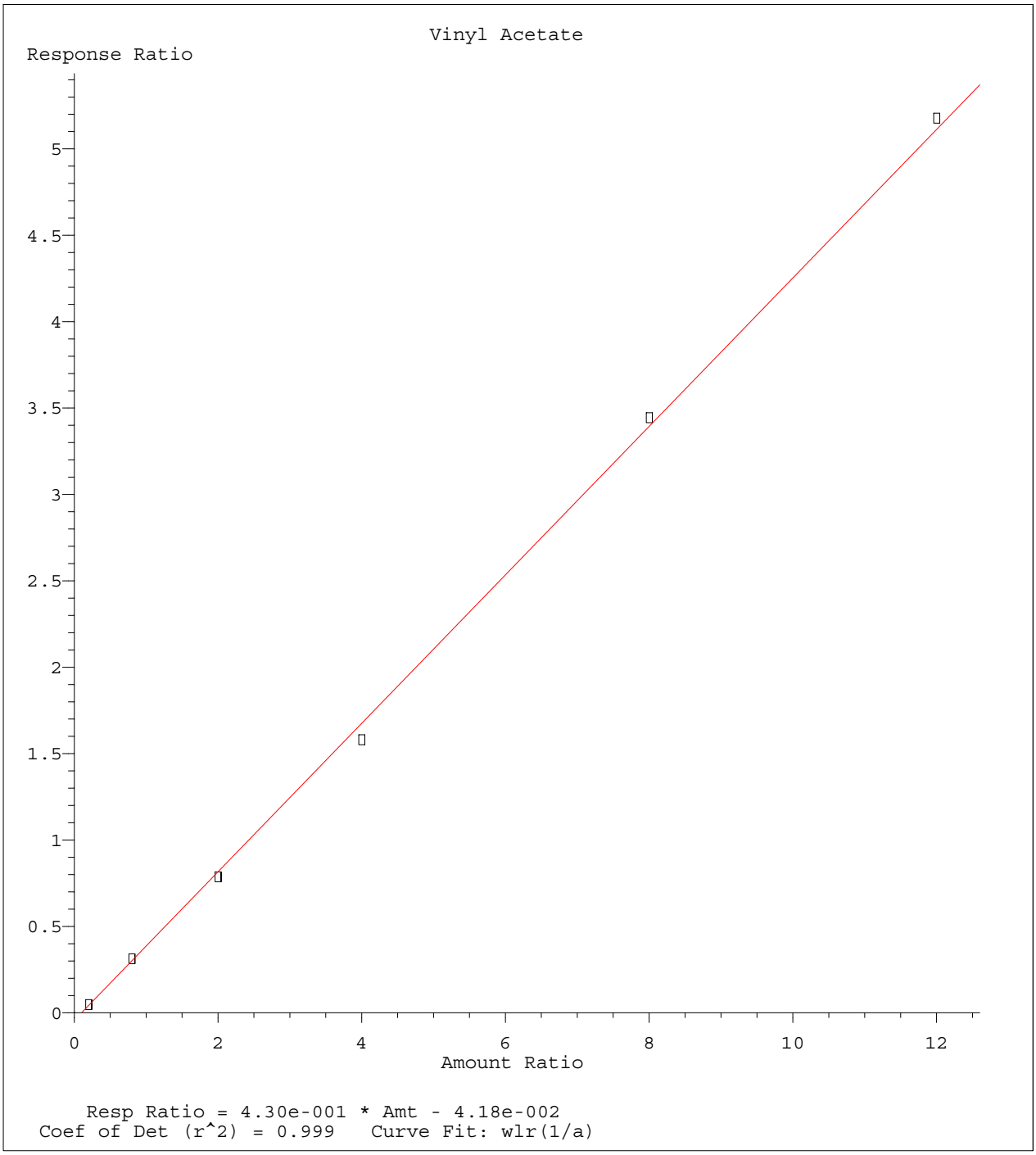
Method Name: C:\MSDCHEM\1\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:45:57 2016



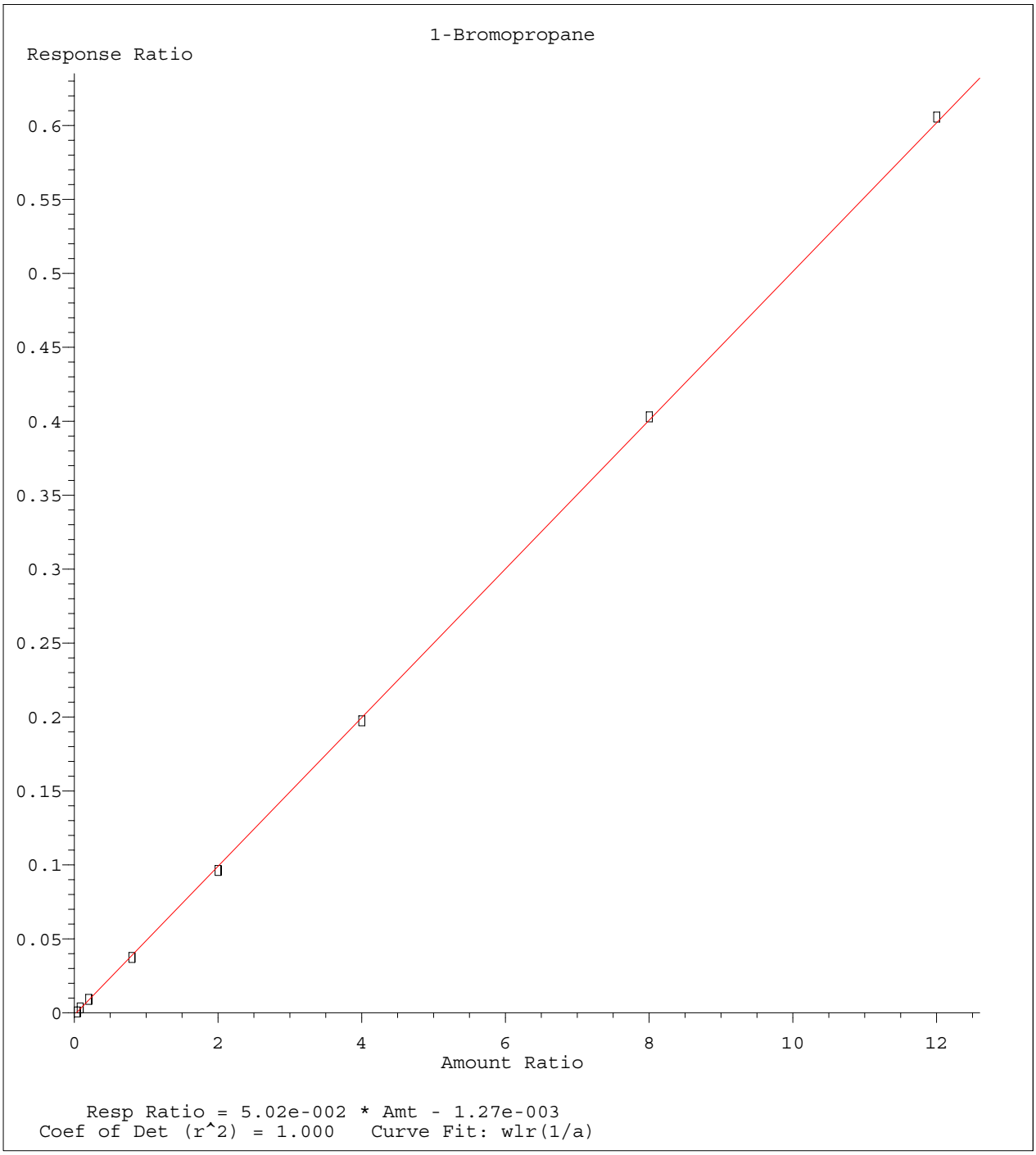
Method Name: C:\MSDCHEM\1\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:45:57 2016



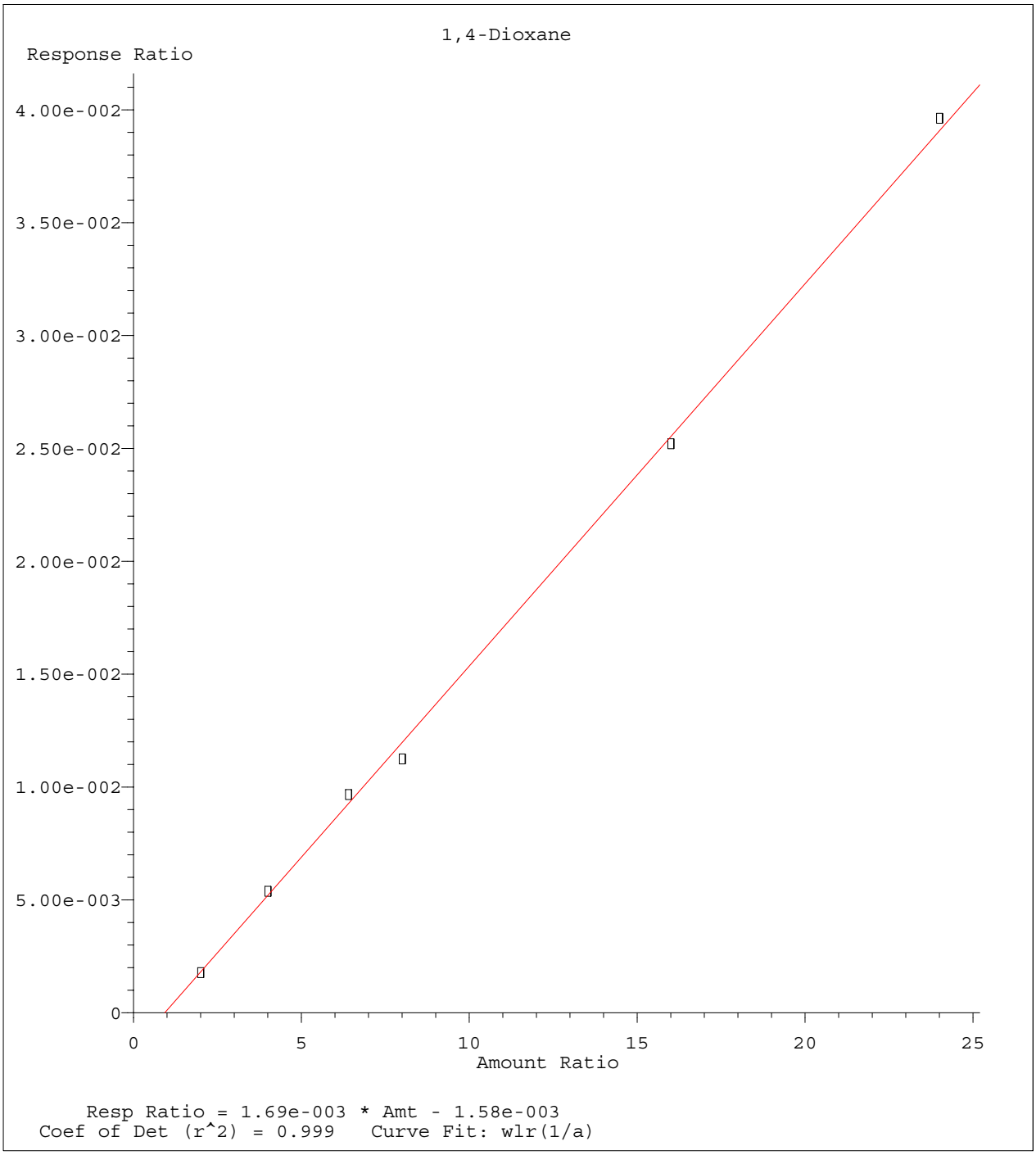
Method Name: C:\MSDCHEM\1\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:45:57 2016



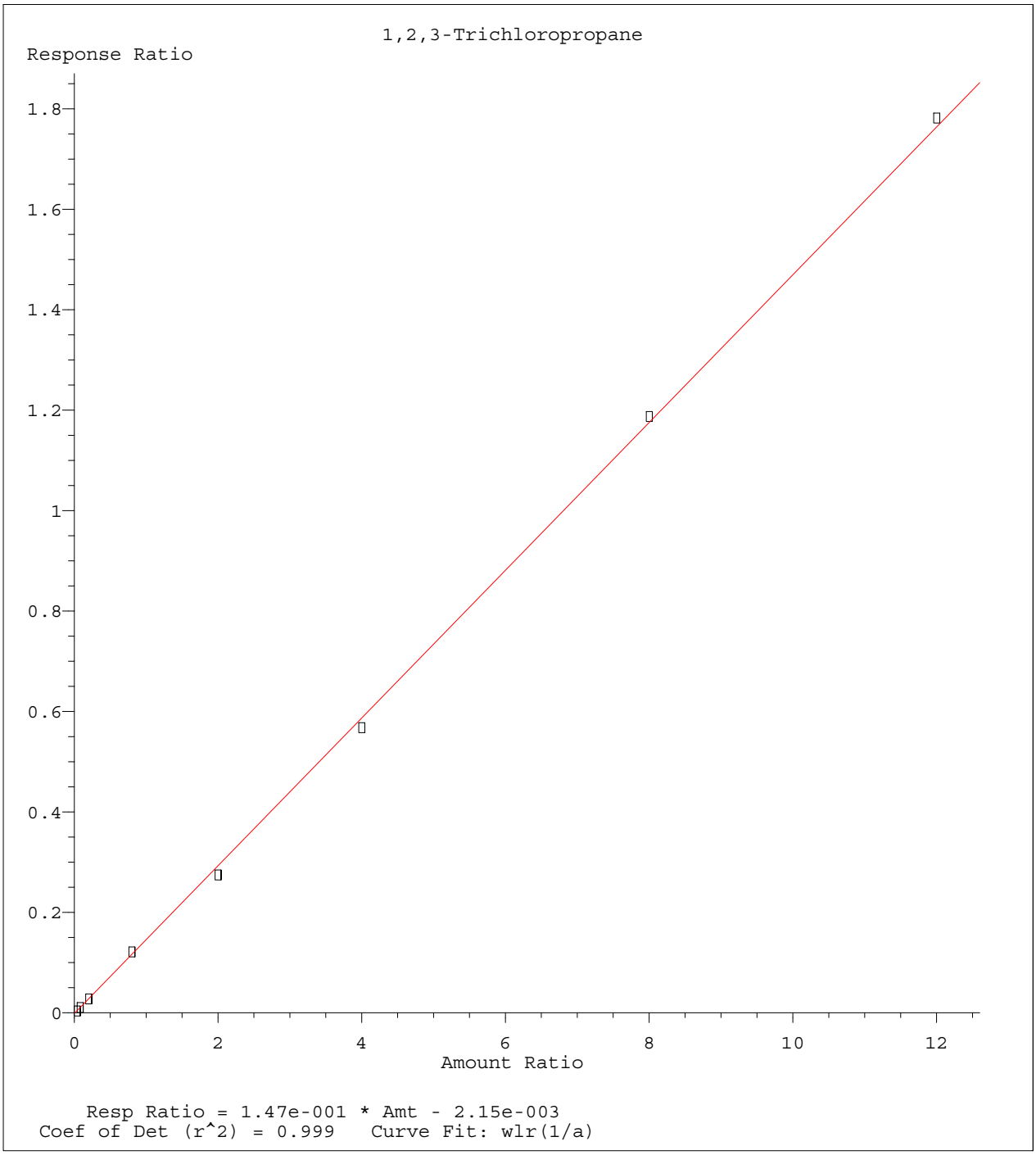
Method Name: C:\MSDCHEM\1\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:45:57 2016



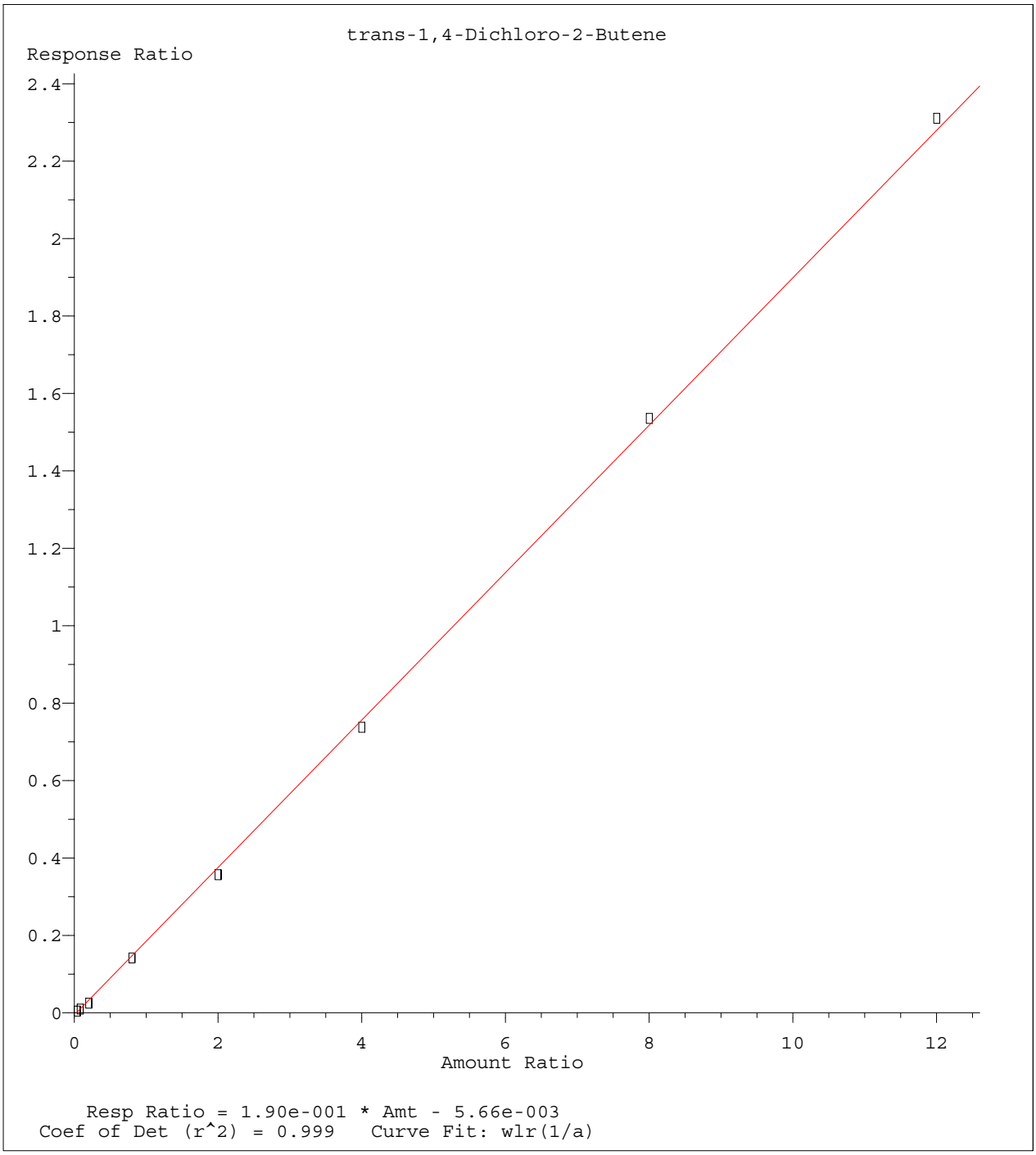
Method Name: C:\MSDCHEM\1\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:45:57 2016



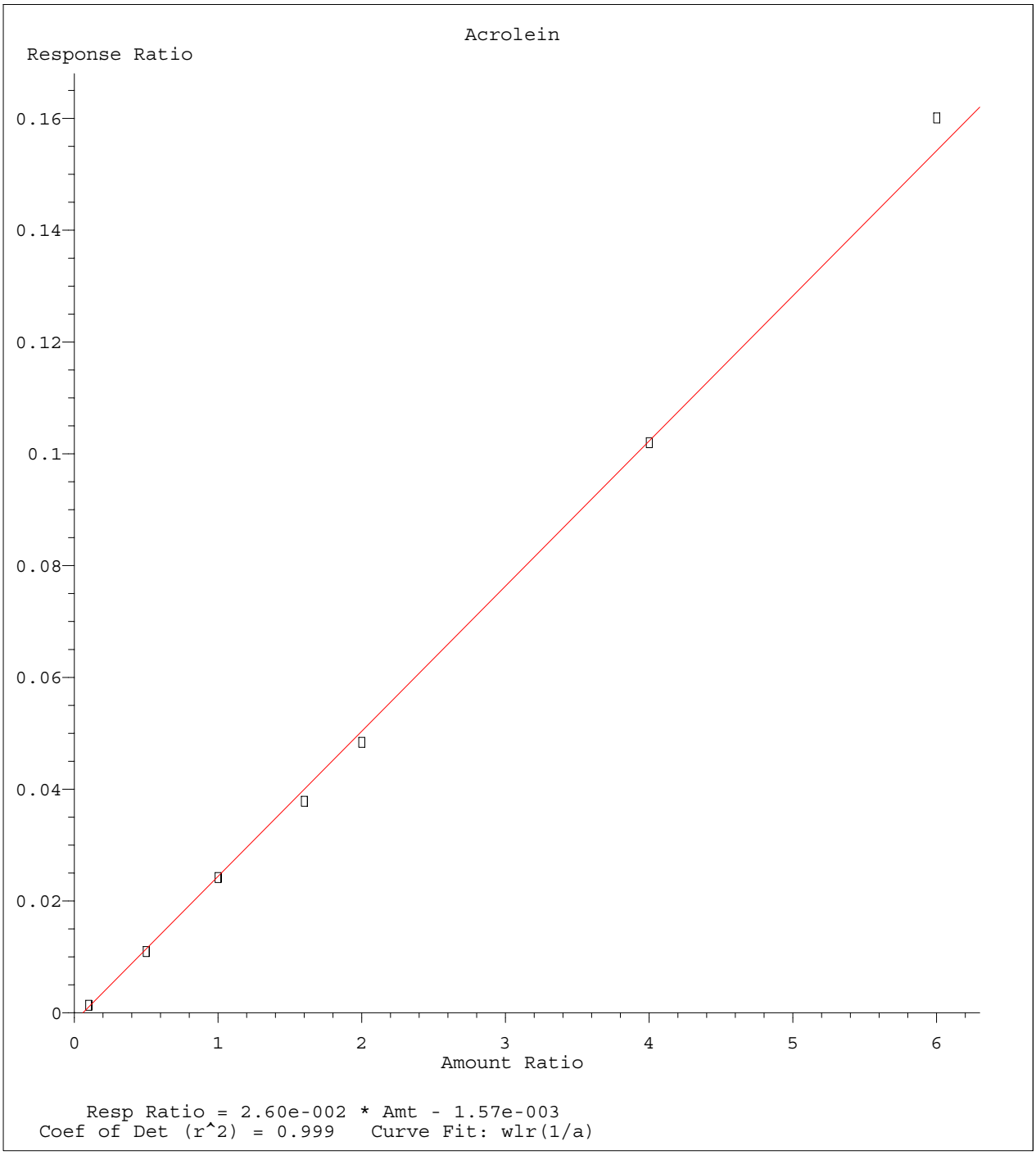
Method Name: C:\MSDCHEM\1\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:45:57 2016



Method Name: C:\MSDCHEM\1\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:45:57 2016



Method Name: C:\MSDCHEM\1\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:45:57 2016



Method Name: C:\MSDCHEM\1\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:45:57 2016

Data File : C:\MSDCHEM\1\DATA\051316\11M11848.D Vial: 13
Acq On : 13 May 2016 20:30 Operator: JDS
Sample : WG568769-12 50ug/L ALT SRC STD 8260 Inst : hpms11
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:47:09 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.61	96	559172	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.25	117	461765	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	267551	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.63	111	155853	25.4675 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.88%		
43) 1,2-Dichloroethane-d4	10.23	65	160000	22.9299 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 91.72%		
57) Toluene-d8	12.47	98	531547	26.4930 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.96%		
78) p-Bromofluorobenzene	15.64	95	203747	24.7040 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.80%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.27	85	495777	56.5878 ug/L	98
3) Chloromethane	3.72	50	386673	55.1069 ug/L	100
4) Vinyl Chloride	3.95	62	326996	56.1165 ug/L	100
5) 1,3-Butadiene	3.99	54	212443	36.6650 ug/L	98
6) Bromomethane	4.84	94	202280	50.4885 ug/L	99
7) Chloroethane	5.00	64	220373	58.8601 ug/L	99
8) Trichlorofluoromethane	5.48	101	552017	47.5286 ug/L	99
9) Diethyl ether	6.01	59	453011	105.4639 ug/L	97
10) Isoprene	6.04	67	388108	54.2141 ug/L	93
11) Acrolein	6.23	56	56029	97.7296 ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.25	101	292836	51.9609 ug/L	99
13) Acetone	6.35	43	65954	49.6723 ug/L	97
14) 1,1-Dichloroethene	6.55	61	486567	47.5319 ug/L	96
15) Tert-Butyl Alcohol	6.67	59	79387	216.1534 ug/L	96
16) Dimethyl Sulfide	6.81	62	290204	70.9875 ug/L	94
17) Iodomethane	7.06	142	176766	38.4128 ug/L	92
18) Methyl acetate	7.07	43	200985	48.7416 ug/L	98
19) Methylene Chloride	7.31	84	275442	51.9916 ug/L	91
20) Carbon Disulfide	7.35	76	765803	44.6859 ug/L	99
21) Acrylonitrile	7.49	53	93674	52.6181 ug/L	100
22) Methyl Tert Butyl Ether	7.52	73	687029	51.9942 ug/L	100
23) trans-1,2-Dichloroethene	7.74	96	295337	52.1295 ug/L	97
24) n-Hexane	7.82	57	420811	44.5959 ug/L	99
25) Diisopropyl ether	8.15	45	2449232	104.0201 ug/L	98
26) Vinyl Acetate	8.31	43	395913	43.6417 ug/L	99
27) 1,1-Dichloroethane	8.34	63	551372	48.5033 ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	1884917	98.3560 ug/L	99
29) 2-Butanone	8.87	43	101045	50.3380 ug/L	98
30) Propionitrile	8.99	54	62190	105.7785 ug/L	98
31) 2,2-Dichloropropane	9.09	77	405332	45.5727 ug/L	100
32) cis-1,2-Dichloroethene	9.15	96	332086	53.1618 ug/L	94
33) Chloroform	9.35	83	531122	47.5773 ug/L	100
34) 1-Bromopropane	9.48	122	76460	68.6656 ug/L	96
35) Bromochloromethane	9.57	130	199933	53.8923 ug/L	96
36) Tetrahydrofuran	9.60	42	131835	93.0068 ug/L	96
38) 1,1,1-Trichloroethane	9.85	97	527857	48.0501 ug/L	99
39) Cyclohexane	9.88	56	601180	50.2142 ug/L	99
40) 1,1-Dichloropropene	10.04	75	393057	50.1107 ug/L	100
41) Carbon Tetrachloride	10.18	117	507914	47.3479 ug/L	100
42) Tert-Amyl-Methyl ether	10.13	73	1406419	105.6143 ug/L	97

(#) = qualifier out of range (m) = manual integration
11M11848.D 8260WT.M Sat May 14 18:47:10 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11848.D Vial: 13
Acq On : 13 May 2016 20:30 Operator: JDS
Sample : WG568769-12 50ug/L ALT SRC STD 8260 Inst : hpms11
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:47:09 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

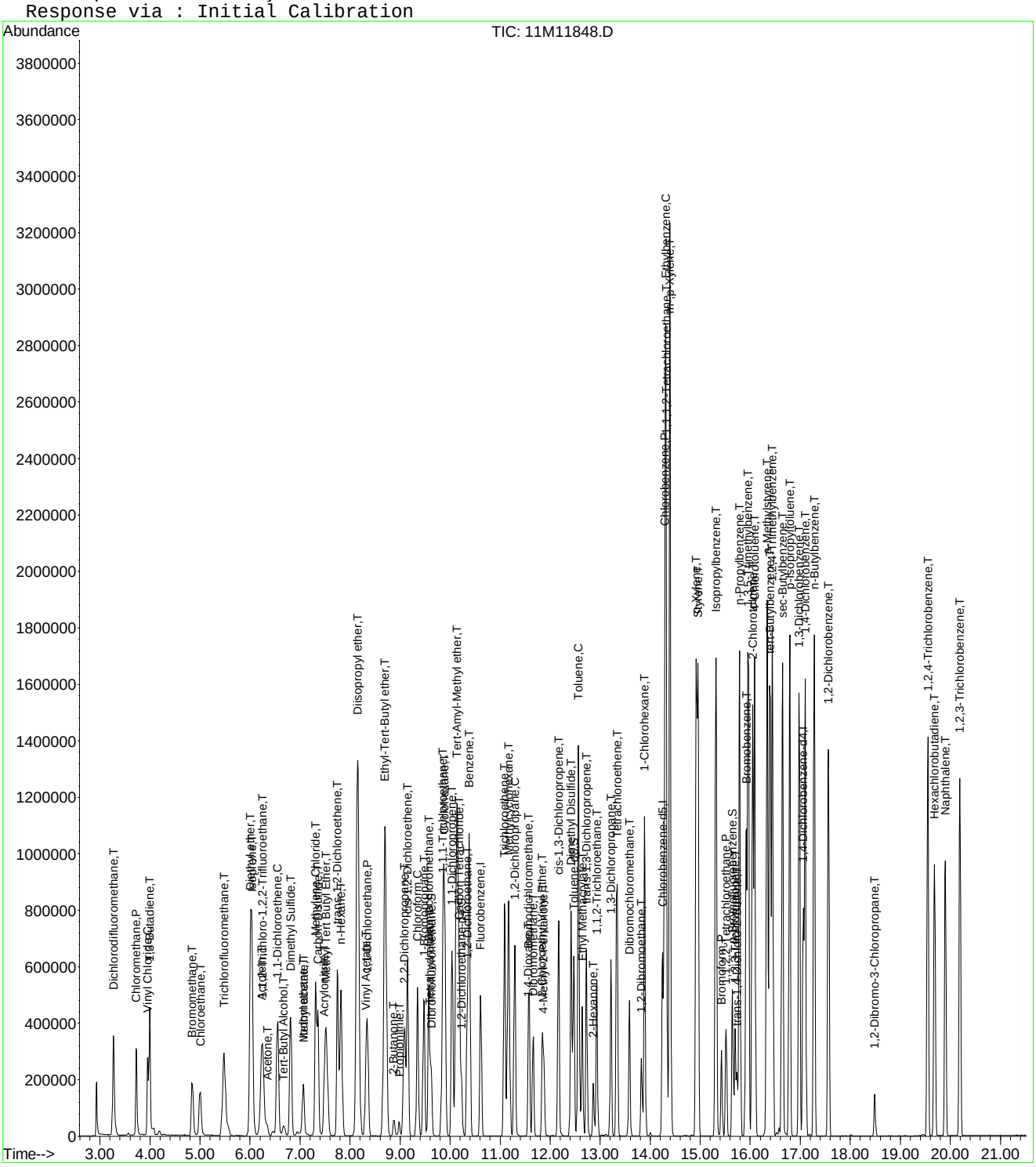
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	1,2-Dichloroethane	10.34	62	434117	47.8802	ug/L	99
45)	Benzene	10.38	78	1098993	51.1808	ug/L	100
46)	Trichloroethene	11.08	130	365193	52.3242	ug/L	99
47)	Methylcyclohexane	11.17	83	450581	52.3110	ug/L	97
48)	1,2-Dichloropropane	11.29	63	313901	52.8102	ug/L	94
49)	1,4-Dioxane	11.56	88	6366	191.2043	ug/L	95
50)	Bromodichloromethane	11.57	83	413329	49.5339	ug/L	99
51)	Dibromomethane	11.65	93	148822	48.0471	ug/L	97
52)	2-Chloroethyl Vinyl Ether	11.84	63	152083	51.9140	ug/L	99
53)	4-Methyl-2-Pentanone	11.87	58	86849	52.5623	ug/L	99
54)	cis-1,3-Dichloropropene	12.17	75	480729	57.5993	ug/L	99
55)	Dimethyl Disulfide	12.42	79	261188	52.0055	ug/L	96
58)	Toluene	12.56	91	1256481	53.7500	ug/L	100
59)	Ethyl Methacrylate	12.65	69	284944	57.0854	ug/L	90
60)	trans-1,3-Dichloropropene	12.73	75	391013	52.1118	ug/L	97
61)	1,1,2-Trichloroethane	12.93	97	218717	52.7643	ug/L	99
62)	2-Hexanone	12.86	43	158873	52.1857	ug/L	98
63)	1,3-Dichloropropane	13.21	76	374611	56.2767	ug/L	95
64)	Tetrachloroethene	13.34	164	283714	52.1906	ug/L	97
65)	Dibromochloromethane	13.59	129	332092	52.5252	ug/L	99
66)	1,2-Dibromoethane	13.82	107	218604	52.6373	ug/L	99
67)	1-Chlorohexane	13.89	91	420217	54.5237	ug/L	92
68)	Chlorobenzene	14.29	112	912650	53.2936	ug/L	100
69)	1,1,1,2-Tetrachloroethane	14.32	131	353663	51.0389	ug/L	98
70)	Ethylbenzene	14.31	106	460093	52.3943	ug/L	99
71)	m-,p-Xylene	14.39	106	1144896	107.2445	ug/L	98
72)	o-Xylene	14.92	106	568307	54.7003	ug/L	100
73)	Styrene	14.95	104	943635	54.9735	ug/L	98
74)	Bromoform	15.43	173	190959	49.8328	ug/L	99
75)	Isopropylbenzene	15.31	105	1490416	54.2449	ug/L	100
77)	1,1,2,2-Tetrachloroethane	15.52	83	228913	54.9422	ug/L	100
79)	1,2,3-Trichloropropane	15.70	110	78385	50.1407	ug/L	92
80)	trans-1,4-Dichloro-2-Buten	15.74	53	73730	36.9129	ug/L	62
81)	n-Propylbenzene	15.79	91	1753049	56.5769	ug/L	99
82)	Bromobenzene	15.92	156	419932	51.6479	ug/L	99
83)	1,3,5-Trimethylbenzene	15.95	105	1303495	55.1277	ug/L	99
84)	2-Chlorotoluene	16.05	91	1145029	52.7599	ug/L	99
85)	4-Chlorotoluene	16.09	91	1077116	55.4064	ug/L	99
86)	a-Methylstyrene	16.34	118	741671	59.4584	ug/L	99
87)	tert-Butylbenzene	16.40	134	283244	56.5417	ug/L	95
88)	1,2,4-Trimethylbenzene	16.44	105	1296091	53.8297	ug/L	99
89)	sec-Butylbenzene	16.65	105	1586978	55.8961	ug/L	100
90)	p-Isopropyltoluene	16.79	119	1426648	54.7069	ug/L	99
91)	1,3-Dichlorobenzene	16.98	146	827515	52.6969	ug/L	98
92)	1,4-Dichlorobenzene	17.10	146	844174	53.0354	ug/L	98
93)	n-Butylbenzene	17.28	91	1238500	53.8957	ug/L	99
94)	1,2-Dichlorobenzene	17.57	146	766416	53.5772	ug/L	98
95)	1,2-Dibromo-3-Chloropropan	18.49	75	45158	48.1046	ug/L	97
96)	1,2,4-Trichlorobenzene	19.55	180	580278	55.4365	ug/L	99
97)	Hexachlorobutadiene	19.69	225	257859	55.9180	ug/L	98
98)	Naphthalene	19.90	128	993390	51.1296	ug/L	100
99)	1,2,3-Trichlorobenzene	20.19	180	519374	54.0642	ug/L	99

(#) = qualifier out of range (m) = manual integration
11M11848.D 8260WT.M Sat May 14 18:47:10 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051316\11M11848.D Vial: 13
Acq On : 13 May 2016 20:30 Operator: JDS
Sample : WG568769-12 50ug/L ALT SRC STD 8260 Inst : hpms11
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 14 18:47 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051316\11M11848.D Vial: 13
Acq On : 13 May 2016 20:30 Operator: JDS
Sample : WG568769-12 50ug/L ALT SRC STD 8260 Inst : hpms11
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	107	0.00
2	T	Dichlorodifluoromethane	50.0000	56.5878	-13.2	119	0.00
3	P	Chloromethane	50.0000	55.1069	-10.2	134	0.00
4	C	Vinyl Chloride	50.0000	56.1165	-12.2	125	-0.01
5	T	1,3-Butadiene	50.0000	36.6650	26.7#	76	-0.01
6	T	Bromomethane	50.0000	50.4885	-1.0	117	-0.01
7	T	Chloroethane	50.0000	58.8601	-17.7	131	0.00
8	T	Trichlorofluoromethane	50.0000	47.5286	4.9	106	0.00
9	T	Diethyl ether	100.0000	105.4639	-5.5	116	0.00
10	T	Isoprene	50.0000	54.2141	-8.4	117	0.00
11	T	Acrolein	50.0000	97.7296	-95.5#	222	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	51.9609	-3.9	115	0.00
13	T	Acetone	50.0000	49.6723	0.7	110	0.01
14	C	1,1-Dichloroethene	50.0000	47.5320	4.9	106	-0.01
15	T	Tert-Butyl Alcohol	200.0000	216.1534	-8.1	114	0.01
16	T	Dimethyl Sulfide	50.0000	70.9875	-42.0#	150	0.00
17	T	Iodomethane	50.0000	38.4128	23.2	82	0.00
18	T	Methyl acetate	50.0000	48.7416	2.5	108	0.01
19	T	Methylene Chloride	50.0000	51.9916	-4.0	118	0.00
20	T	Carbon Disulfide	50.0000	44.6859	10.6	94	-0.01
21	T	Acrylonitrile	50.0000	52.6181	-5.2	110	0.00
22	T	Methyl Tert Butyl Ether	50.0000	51.9942	-4.0	113	0.00
23	T	trans-1,2-Dichloroethene	50.0000	52.1295	-4.3	117	0.00
24	T	n-Hexane	50.0000	44.5959	10.8	94	0.00
25	T	Diisopropyl ether	100.0000	104.0201	-4.0	112	0.00
26	T	Vinyl Acetate	50.0000	43.6417	12.7	96	0.00
27	P	1,1-Dichloroethane	50.0000	48.5033	3.0	107	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	98.3560	1.6	106	0.00
29	T	2-Butanone	50.0000	50.3381	-0.7	111	0.00
30	T	Propionitrile	100.0000	105.7786	-5.8	110	0.01
31	T	2,2-Dichloropropane	50.0000	45.5727	8.9	101	0.00
32	T	cis-1,2-Dichloroethene	50.0000	53.1618	-6.3	118	0.00
33	C	Chloroform	50.0000	47.5773	4.8	108	0.00
34	T	1-Bromopropane	50.0000	68.6656	-37.3#	152	0.00
35	T	Bromochloromethane	50.0000	53.8923	-7.8	111	0.00
36	T	Tetrahydrofuran	100.0000	93.0068	7.0	103	0.00
37	S	Dibromofluoromethane	25.0000	25.4675	-1.9	111	0.00
38	T	1,1,1-Trichloroethane	50.0000	48.0501	3.9	106	0.00
39	T	Cyclohexane	50.0000	50.2142	-0.4	105	0.00
40	T	1,1-Dichloropropene	50.0000	50.1107	-0.2	111	0.00
41	T	Carbon Tetrachloride	50.0000	47.3479	5.3	103	0.00
42	T	Tert-Amyl-Methyl ether	100.0000	105.6143	-5.6	115	0.00
43	S	1,2-Dichloroethane-d4	25.0000	22.9299	8.3	101	0.00
44	T	1,2-Dichloroethane	50.0000	47.8802	4.2	104	0.00
45	T	Benzene	50.0000	51.1809	-2.4	116	0.00
46	T	Trichloroethene	50.0000	52.3242	-4.6	119	-0.01
47	T	Methylcyclohexane	50.0000	52.3110	-4.6	108	0.00
48	C	1,2-Dichloropropane	50.0000	52.8102	-5.6	117	0.00
49	T	1,4-Dioxane	200.0000	191.2043	4.4	109	0.01
50	T	Bromodichloromethane	50.0000	49.5339	0.9	107	0.00
51	T	Dibromomethane	50.0000	48.0471	3.9	104	0.00
52	T	2-Chloroethyl Vinyl Ether	50.0000	51.9140	-3.8	114	0.00
53	T	4-Methyl-2-Pentanone	50.0000	52.5623	-5.1	115	0.00
54	T	cis-1,3-Dichloropropene	50.0000	57.5993	-15.2	122	0.00

(#) = Out of Range
11M11848.D 8260WT.M Sat May 14 18:47:20 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051316\11M11848.D Vial: 13
Acq On : 13 May 2016 20:30 Operator: JDS
Sample : WG568769-12 50ug/L ALT SRC STD 8260 Inst : hpms11
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	Dimethyl Disulfide	50.0000	52.0055	-4.0	110	0.00
56	I	Chlorobenzene-d5	25.0000	25.0000	0.0	105	0.00
57	S	Toluene-d8	25.0000	26.4930	-6.0	115	0.00
58	C	Toluene	50.0000	53.7500	-7.5	115	0.00
59	T	Ethyl Methacrylate	50.0000	57.0854	-14.2	114	0.00
60	T	trans-1,3-Dichloropropene	50.0000	52.1118	-4.2	107	0.00
61	T	1,1,2-Trichloroethane	50.0000	52.7643	-5.5	113	0.00
62	T	2-Hexanone	50.0000	52.1857	-4.4	110	0.00
63	T	1,3-Dichloropropane	50.0000	56.2767	-12.6	118	0.00
64	T	Tetrachloroethene	50.0000	52.1906	-4.4	113	0.00
65	T	Dibromochloromethane	50.0000	52.5251	-5.1	107	0.00
66	T	1,2-Dibromoethane	50.0000	52.6373	-5.3	111	0.00
67	T	1-Chlorohexane	50.0000	54.5237	-9.0	112	0.00
68	P	Chlorobenzene	50.0000	53.2936	-6.6	114	0.00
69	T	1,1,1,2-Tetrachloroethane	50.0000	51.0388	-2.1	109	0.00
70	C	Ethylbenzene	50.0000	52.3943	-4.8	113	0.00
71	T	m-,p-Xylene	100.0000	107.2445	-7.2	115	0.00
72	T	o-Xylene	50.0000	54.7003	-9.4	115	0.00
73	T	Styrene	50.0000	54.9735	-9.9	113	0.00
74	P	Bromoform	50.0000	49.8327	0.3	104	0.00
75	T	Isopropylbenzene	50.0000	54.2449	-8.5	114	0.00
76	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	101	0.00
77	P	1,1,2,2-Tetrachloroethane	50.0000	54.9422	-9.9	110	0.00
78	S	p-Bromofluorobenzene	25.0000	24.7040	1.2	108	0.00
79	T	1,2,3-Trichloropropane	50.0000	50.1407	-0.3	108	0.00
80	T	trans-1,4-Dichloro-2-Butene	50.0000	36.9129	26.2#	78	0.00
81	T	n-Propylbenzene	50.0000	56.5769	-13.2	115	0.00
82	T	Bromobenzene	50.0000	51.6479	-3.3	111	0.00
83	T	1,3,5-Trimethylbenzene	50.0000	55.1277	-10.3	114	-0.01
84	T	2-Chlorotoluene	50.0000	52.7599	-5.5	112	0.00
85	T	4-Chlorotoluene	50.0000	55.4064	-10.8	116	0.00
86	T	a-Methylstyrene	50.0000	59.4584	-18.9	114	0.00
87	T	tert-Butylbenzene	50.0000	56.5417	-13.1	117	0.00
88	T	1,2,4-Trimethylbenzene	50.0000	53.8297	-7.7	110	0.00
89	T	sec-Butylbenzene	50.0000	55.8961	-11.8	114	0.00
90	T	p-Isopropyltoluene	50.0000	54.7069	-9.4	111	0.00
91	T	1,3-Dichlorobenzene	50.0000	52.6969	-5.4	112	0.00
92	T	1,4-Dichlorobenzene	50.0000	53.0354	-6.1	114	0.00
93	T	n-Butylbenzene	50.0000	53.8957	-7.8	110	0.00
94	T	1,2-Dichlorobenzene	50.0000	53.5772	-7.2	112	0.00
95	T	1,2-Dibromo-3-Chloropropane	50.0000	48.1046	3.8	105	0.00
96	T	1,2,4-Trichlorobenzene	50.0000	55.4365	-10.9	113	0.00
97	T	Hexachlorobutadiene	50.0000	55.9180	-11.8	118	0.00
98	T	Naphthalene	50.0000	51.1296	-2.3	103	0.00
99	T	1,2,3-Trichlorobenzene	50.0000	54.0642	-8.1	114	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M11848.D 8260WT.M Sat May 14 18:47:20 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021256.D Vial: 2
Acq On : 20 May 2016 16:13 Operator: ADC
Sample : WG569734-02 50ug/L CCV STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:51:56 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.982	96	386783	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	291699	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	157710	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.980	111	104696	25.5573 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.229%		
34) 1,2-Dichloroethane-d4	4.643	65	94879	25.0485 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 100.194%		
47) Toluene-d8	6.577	98	404789	25.9849 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.940%		
66) p-Bromofluorobenzene	8.633	95	140933	25.8458 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 103.383%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.998	85	305771	54.3471 ug/L	100
3) Chloromethane	1.105	50	256574	50.9775 ug/L	99
4) Vinyl Chloride	1.149	62	262194	52.0502 ug/L	100
5) 1,3-Butadiene	1.157	54	217526	53.5687 ug/L	100
6) Bromomethane	1.325	94	156345	49.0383 ug/L	100
7) Chloroethane	1.392	64	113817	50.3929 ug/L	100
8) Trichlorofluoromethane	1.476	101	360221	54.0556 ug/L	100
9) Diethyl ether	1.667	59	130639	50.5577 ug/L	100
10) 1,1-Dichloroethene	1.786	61	317153	50.3065 ug/L	100
11) Carbon Disulfide	1.800	76	619225	51.8216 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.814	101	203129	52.3952 ug/L	100
13) Iodomethane	1.878	142	274453	46.7559 ug/L	100
14) Acrolein	2.014	56	22317	48.7380 ug/L	100
15) Methylene Chloride	2.188	84	207766	49.2498 ug/L	100
16) Acetone	2.231	43	30498	49.8533 ug/L	100
17) trans-1,2-Dichloroethene	2.310	96	204273	49.6910 ug/L	100
18) Methyl acetate	2.333	43	100988	51.0864 ug/L #	100
19) Methyl Tert Butyl Ether	2.408	73	444701	49.9862 ug/L	100
20) 1,1-Dichloroethane	2.837	63	396069	51.4182 ug/L	100
21) Acrylonitrile	2.889	53	41803	49.7339 ug/L	100
22) Vinyl Acetate	3.120	86	11851	45.3517 ug/L	100
23) cis-1,2-Dichloroethene	3.395	96	235295	51.3320 ug/L	100
24) 2,2-Dichloropropane	3.517	77	324445	53.1619 ug/L	100
25) Cyclohexane	3.612	56	349004	53.4622 ug/L	100
26) Bromochloromethane	3.624	130	143016	51.2911 ug/L	100
27) Chloroform	3.749	83	391275	51.1356 ug/L	100
28) Carbon Tetrachloride	3.888	117	321148	55.4582 ug/L	100
30) 1,1,1-Trichloroethane	3.983	97	352909	51.6552 ug/L	100
31) 1,1-Dichloropropene	4.157	75	286748	51.3389 ug/L	100
32) 2-Butanone	4.177	43	46203	47.7206 ug/L	100
33) Benzene	4.472	78	864147	51.0289 ug/L	100
35) 1,2-Dichloroethane	4.724	62	241005	50.2579 ug/L	100
36) Methylcyclohexane	5.141	83	357716	53.0737 ug/L	100
37) Trichloroethene	5.170	130	284142	49.6311 ug/L	100
38) Dibromomethane	5.599	93	115982	50.3086 ug/L	100
39) 1,2-Dichloropropane	5.706	63	226705	50.8118 ug/L	100
40) Bromodichloromethane	5.796	83	285964	52.7959 ug/L	100
41) 1,4-Dioxane	6.010	88	2113	94.8584 ug/L	100
42) 2-Chloroethyl Vinyl Ether	6.395	63	70931	44.0910 ug/L	100
43) cis-1,3-Dichloropropene	6.409	75	318636	53.6503 ug/L	100
44) 4-Methyl-2-Pentanone	7.003	58	40384	47.1903 ug/L	100
45) trans-1,3-Dichloropropene	7.017	75	257968	53.5247 ug/L	100
48) Toluene	6.624	91	954494	51.4605 ug/L	100
49) Tetrachloroethene	6.957	166	271151	50.2690 ug/L	100
50) 1,1,2-Trichloroethane	7.148	97	153433	49.9987 ug/L	100
51) Dibromochloromethane	7.290	129	211946	49.3482 ug/L	100

Data File : D:\MassHunter\GCMS\1\data\052016\17M021256.D Vial: 2
Acq On : 20 May 2016 16:13 Operator: ADC
Sample : WG569734-02 50ug/L CCV STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:51:56 2016

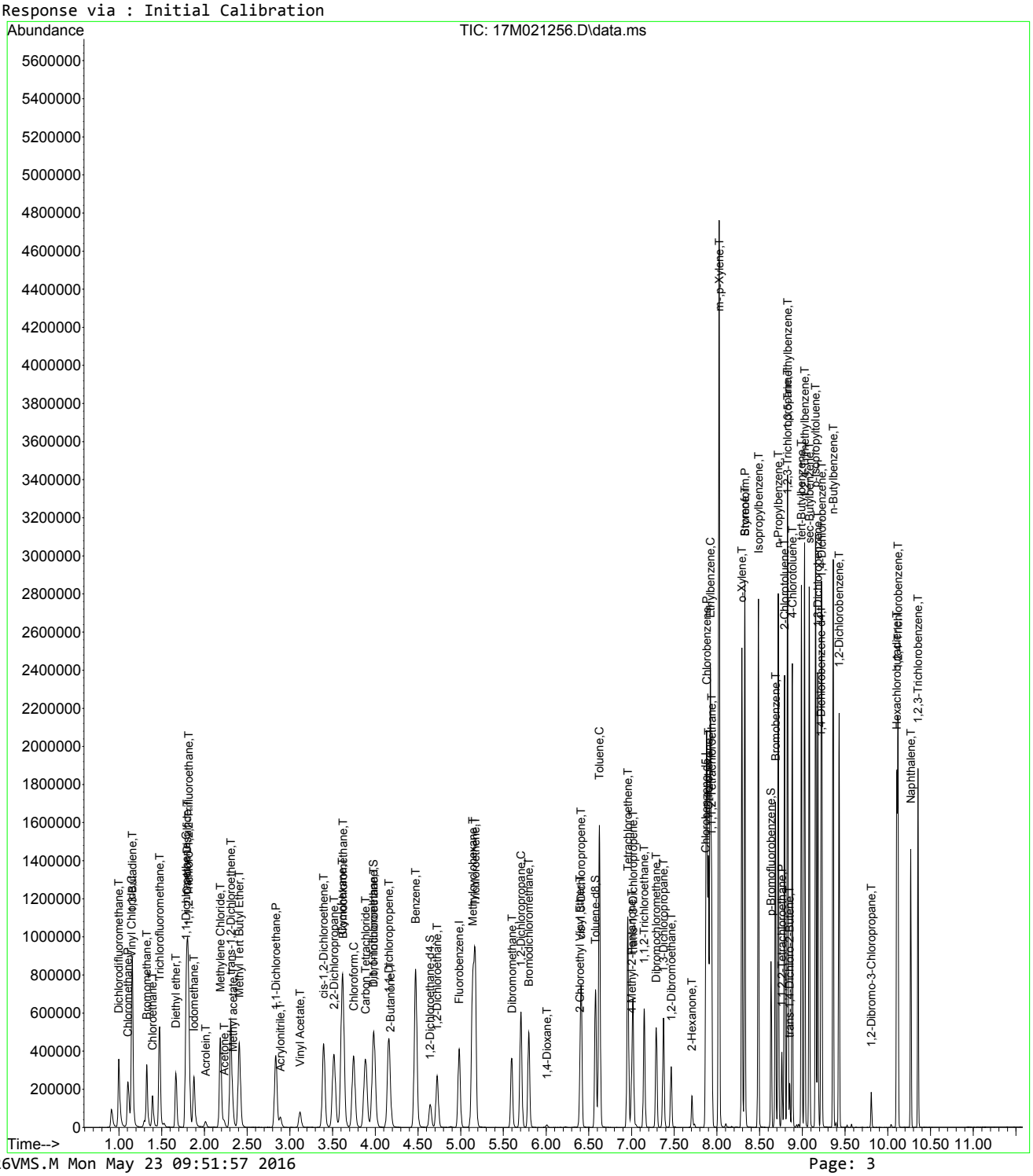
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,3-Dichloropropane	7.374	76	246380	49.9213	ug/L		100
53) 1,2-Dibromoethane	7.463	107	153519	50.0043	ug/L		100
54) 2-Hexanone	7.707	43	70595	46.0760	ug/L		100
55) Chlorobenzene	7.880	112	610707	50.1079	ug/L		100
56) 1-Chlorohexane	7.901	69	54039	53.5555	ug/L		100
57) Ethylbenzene	7.921	106	325064	50.7100	ug/L		100
58) 1,1,1,2-Tetrachloroethane	7.938	131	225614	53.0297	ug/L		100
59) m-,p-Xylene	8.025	106	782841	103.1389	ug/L		100
60) o-Xylene	8.291	106	375654	50.4293	ug/L		100
61) Styrene	8.326	104	617590	51.9850	ug/L		100
62) Bromoform	8.326	173	128911	46.7271	ug/L		100
63) Isopropylbenzene	8.485	105	991628	51.3863	ug/L		100
65) 1,3,5-Trimethylbenzene	8.827	105	837659	52.0317	ug/L		100
67) Bromobenzene	8.685	156	271963	49.4032	ug/L		100
68) n-Propylbenzene	8.717	91	1122697	52.2944	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.760	83	99286	41.9779	ug/L		100
70) 2-Chlorotoluene	8.792	91	671676	50.7201	ug/L		100
71) 1,2,3-Trichloropropane	8.824	110	43541	48.5175	ug/L		100
72) trans-1,4-Dichloro-2-B...	8.850	53	20022	43.6953	ug/L	#	99
73) 1,2,4-Trimethylbenzene	9.027	105	830551	51.5536	ug/L		100
74) 4-Chlorotoluene	8.882	91	696811	50.7551	ug/L		100
75) tert-Butylbenzene	8.989	134	155700	51.3915	ug/L		100
76) sec-Butylbenzene	9.082	105	1036190	51.7746	ug/L		100
77) p-Isopropyltoluene	9.154	119	875953	52.6033	ug/L		100
78) 1,3-Dichlorobenzene	9.180	146	494218	49.3740	ug/L		100
79) 1,4-Dichlorobenzene	9.227	146	481792	46.6434	ug/L		100
80) n-Butylbenzene	9.360	91	807045	51.9977	ug/L		100
81) 1,2-Dichlorobenzene	9.429	146	446647	47.6006	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.806	75	21598	44.8449	ug/L		100
83) Hexachlorobutadiene	10.104	225	187672	51.4690	ug/L		100
84) 1,2,4-Trichlorobenzene	10.118	180	335074	48.2134	ug/L		100
85) Naphthalene	10.269	128	524979	49.4984	ug/L		100
86) 1,2,3-Trichlorobenzene	10.353	180	291995	47.9144	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021256.D Vial: 2
Acq On : 20 May 2016 16:13 Operator: ADC
Sample : WG569734-02 50ug/L CCV STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:51:56 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



826VMS.M Mon May 23 09:51:57 2016 Page: 3

Data File : D:\MassHunter\GCMS\1\data\052016\17M021258.D Vial: 4
Acq On : 20 May 2016 16:52 Operator: ADC
Sample : WG569734-03 0.3ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:00 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	386275	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	290303	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	155617	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	0.000	111	0	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.000%#		
34) 1,2-Dichloroethane-d4	0.000	65	0	0.0000	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.000%#		
47) Toluene-d8	6.580	98	1317	0.0849	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.340%#		
66) p-Bromofluorobenzene	8.633	95	1203	0.2236	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.894%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.998	85	1664	0.2961	ug/L #	71
3) Chloromethane	1.102	50	1723	0.3428	ug/L	100
4) Vinyl Chloride	1.146	62	1533	0.3047	ug/L	95
5) 1,3-Butadiene	1.157	54	1376	0.3393	ug/L	97
6) Bromomethane	1.325	94	1497	0.4702	ug/L	96
7) Chloroethane	1.398	64	808	0.3582	ug/L #	45
8) Trichlorofluoromethane	1.473	101	2227	0.3346	ug/L	99
9) Diethyl ether	1.667	59	757	0.2933	ug/L #	62
10) 1,1-Dichloroethene	1.788	61	2270	0.3605	ug/L	99
11) Carbon Disulfide	1.800	76	4651	0.3897	ug/L	95
12) 1,1,2-Trichloro-1,2,2-...	1.815	101	1271	0.3283	ug/L	97
13) Iodomethane	1.878	142	291	1.1333	ug/L #	34
15) Methylene Chloride	2.185	84	1828	0.4339	ug/L	90
16) Acetone	2.243	43	508	0.8315	ug/L #	45
17) trans-1,2-Dichloroethene	2.304	96	1424	0.3469	ug/L	98
18) Methyl acetate	2.330	43	430	0.2178	ug/L #	57
19) Methyl Tert Butyl Ether	2.405	73	2682	0.3019	ug/L	100
20) 1,1-Dichloroethane	2.837	63	2312	0.3005	ug/L	99
23) cis-1,2-Dichloroethene	3.390	96	1490	0.3255	ug/L	99
24) 2,2-Dichloropropane	3.508	77	1918	0.3147	ug/L	98
25) Cyclohexane	3.618	56	2141	0.3284	ug/L	94
26) Bromochloromethane	3.624	130	655	0.2352	ug/L #	81
27) Chloroform	3.746	83	2304	0.3015	ug/L	97
28) Carbon Tetrachloride	3.888	117	1261	0.2180	ug/L #	88
30) 1,1,1-Trichloroethane	3.980	97	2134	0.3128	ug/L	91
31) 1,1-Dichloropropene	4.157	75	1852	0.3320	ug/L	94
32) 2-Butanone	4.177	43	159	0.1644	ug/L #	34
33) Benzene	4.475	78	5458	0.3227	ug/L	98
35) 1,2-Dichloroethane	4.724	62	1357	0.2834	ug/L #	84
36) Methylcyclohexane	5.144	83	2304	0.3423	ug/L	97
37) Trichloroethene	5.167	130	2150	0.3760	ug/L	96
38) Dibromomethane	5.596	93	683	0.2966	ug/L	98
39) 1,2-Dichloropropane	5.706	63	1360	0.3052	ug/L	85
40) Bromodichloromethane	5.796	83	1340	0.2477	ug/L	93
42) 2-Chloroethyl Vinyl Ether	6.398	63	303	0.7999	ug/L #	43
43) cis-1,3-Dichloropropene	6.412	75	1619	0.2730	ug/L	94
44) 4-Methyl-2-Pentanone	7.003	58	181	0.2118	ug/L #	23
45) trans-1,3-Dichloropropene	7.017	75	1207	0.2508	ug/L	87
48) Toluene	6.621	91	6368	0.3450	ug/L	100
49) Tetrachloroethene	6.954	166	2039	0.3798	ug/L	99
50) 1,1,2-Trichloroethane	7.151	97	836	0.2737	ug/L	99
51) Dibromochloromethane	7.290	129	856	0.4327	ug/L	98
52) 1,3-Dichloropropane	7.371	76	1513	0.3080	ug/L	94
53) 1,2-Dibromoethane	7.460	107	975	0.3191	ug/L	98
54) 2-Hexanone	7.704	43	519	0.3404	ug/L #	78
55) Chlorobenzene	7.880	112	4181	0.3447	ug/L #	14

Data File : D:\MassHunter\GCMS\1\data\052016\17M021258.D Vial: 4
Acq On : 20 May 2016 16:52 Operator: ADC
Sample : WG569734-03 0.3ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:00 2016

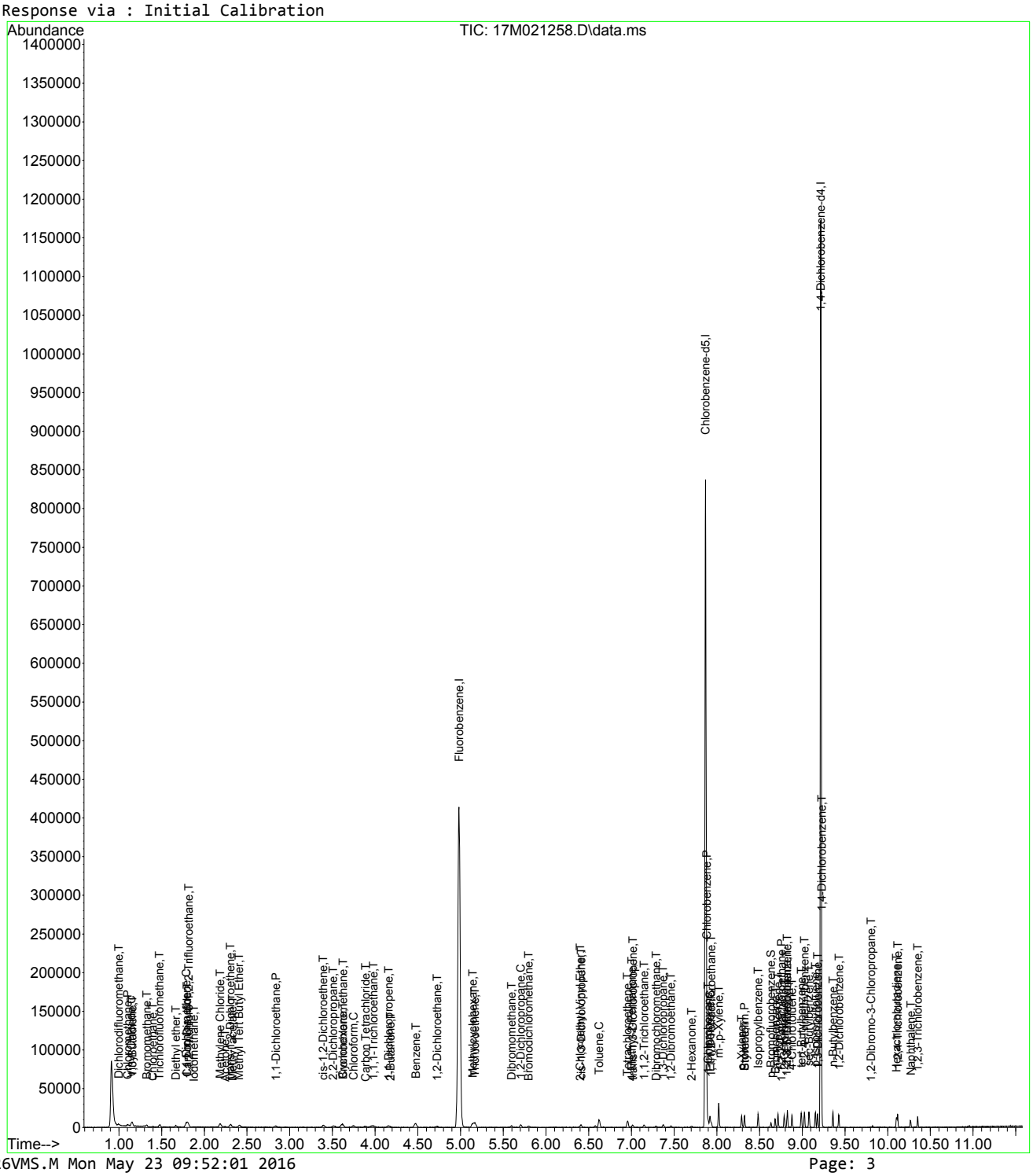
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1-Chlorohexane	7.898	69	317	0.3157	ug/L		81
57) Ethylbenzene	7.921	106	2147	0.3365	ug/L		93
58) 1,1,1,2-Tetrachloroethane	7.935	131	1173	0.2770	ug/L		81
59) m-,p-Xylene	8.022	106	5296	0.7011	ug/L		97
60) o-Xylene	8.291	106	2289	0.3088	ug/L		94
61) Styrene	8.326	104	3776	0.3194	ug/L		100
62) Bromoform	8.323	173	524	0.5324	ug/L	#	81
63) Isopropylbenzene	8.482	105	6292	0.3276	ug/L		100
65) 1,3,5-Trimethylbenzene	8.824	105	5275	0.3321	ug/L		99
67) Bromobenzene	8.685	156	1836	0.3380	ug/L		100
68) n-Propylbenzene	8.717	91	7451	0.3517	ug/L		99
69) 1,1,2,2-Tetrachloroethane	8.758	83	178	1.0656	ug/L	#	18
70) 2-Chlorotoluene	8.789	91	4558	0.3488	ug/L		100
71) 1,2,3-Trichloropropane	8.818	110	181	0.2044	ug/L	#	27
73) 1,2,4-Trimethylbenzene	9.024	105	5319	0.3346	ug/L		100
74) 4-Chlorotoluene	8.879	91	4772	0.3523	ug/L		99
75) tert-Butylbenzene	8.989	134	1005	0.3362	ug/L		95
76) sec-Butylbenzene	9.079	105	6946	0.3517	ug/L		100
77) p-Isopropyltoluene	9.154	119	5694	0.3465	ug/L		96
78) 1,3-Dichlorobenzene	9.180	146	3923	0.3972	ug/L		99
79) 1,4-Dichlorobenzene	9.227	146	4014	0.3938	ug/L		87
80) n-Butylbenzene	9.360	91	5737	0.3746	ug/L		97
81) 1,2-Dichlorobenzene	9.429	146	3363	0.3632	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.806	75	113	0.2378	ug/L		97
83) Hexachlorobutadiene	10.104	225	1494	0.4152	ug/L		96
84) 1,2,4-Trichlorobenzene	10.118	180	2843	0.4146	ug/L		98
85) Naphthalene	10.269	128	3659	0.3496	ug/L		98
86) 1,2,3-Trichlorobenzene	10.353	180	2425	0.4033	ug/L		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021258.D Vial: 4
Acq On : 20 May 2016 16:52 Operator: ADC
Sample : WG569734-03 0.3ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:00 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



826VMS.M Mon May 23 09:52:01 2016 Page: 3

Data File : D:\MassHunter\GCMS\1\data\052016\17M021258.D Vial: 4
Acq On : 20 May 2016 16:52 Operator: ADC
Sample : WG569734-03 0.3ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 10:56:43 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:56:06 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.000
2	T	Dichlorodifluoromethane	-1.000	0.296	0.0	0	0.000
3	P	Chloromethane	-1.000	0.343	0.0	0	0.000
4	C	Vinyl Chloride	-1.000	0.305	0.0	0	0.000
5	T	1,3-Butadiene	-1.000	0.339	0.0	0	0.000
6	T	Bromomethane	-1.000	0.470	0.0	0	0.000
7	T	Chloroethane	-1.000	0.358	0.0	0	0.000
8	T	Trichlorofluoromethane	-1.000	0.335	0.0	0	0.000
9	T	Diethyl ether	-1.000	0.293	0.0	0	0.000
10	C	1,1-Dichloroethene	-1.000	0.361	0.0	0	0.000
11	T	Carbon Disulfide	-1.000	0.390	0.0	0	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.000	0.328	0.0	0	0.000
13	T	Iodomethane	-1.000	1.133	0.0	0	0.000
14	T	Acrolein	-1.000	0.000	0.0	0	-2.014#
15	T	Methylene Chloride	-1.000	0.434	0.0	0	0.000
16	T	Acetone	-1.000	0.831	0.0	0	0.012
17	T	trans-1,2-Dichloroethene	-1.000	0.347	0.0	0	0.000
18	T	Methyl acetate	-1.000	0.218	0.0	0	0.000
19	T	Methyl Tert Butyl Ether	-1.000	0.302	0.0	0	0.000
20	P	1,1-Dichloroethane	-1.000	0.301	0.0	0	0.000
21	T	Acrylonitrile	-1.000	0.000	0.0	0	-2.889#
22	T	Vinyl Acetate	-1.000	0.000	0.0	0	-3.120#
23	T	cis-1,2-Dichloroethene	-1.000	0.325	0.0	0	0.000
24	T	2,2-Dichloropropane	-1.000	0.315	0.0	0	0.000
25	T	Cyclohexane	-1.000	0.328	0.0	0	0.000
26	T	Bromochloromethane	-1.000	0.235	0.0	0	0.000
27	C	Chloroform	0.300	0.302	-0.7#	100	0.000
28	T	Carbon Tetrachloride	-1.000	0.218	0.0	0	0.000
29	S	Dibromofluoromethane	-1.000	0.000	0.0	0	-3.980#
30	T	1,1,1-Trichloroethane	-1.000	0.313	0.0	0	0.000
31	T	1,1-Dichloropropene	-1.000	0.332	0.0	0	0.000
32	T	2-Butanone	-1.000	0.164	0.0	0	0.000
33	T	Benzene	-1.000	0.323	0.0	0	0.000
34	S	1,2-Dichloroethane-d4	-1.000	0.000	0.0	0	-4.643#
35	T	1,2-Dichloroethane	-1.000	0.283	0.0	0	0.000
36	T	Methylcyclohexane	0.300	0.342	-14.0	0	0.000
37	T	Trichloroethene	-1.000	0.376	0.0	0	0.000
38	T	Dibromomethane	-1.000	0.297	0.0	0	0.000
39	C	1,2-Dichloropropane	-1.000	0.305	0.0	0	0.000
40	T	Bromodichloromethane	-1.000	0.248	0.0	0	0.000
41	T	1,4-Dioxane	-1.000	0.000	0.0	0	-6.010#
42	T	2-Chloroethyl Vinyl Ether	-1.000	0.800	0.0	0	0.000
43	T	cis-1,3-Dichloropropene	-1.000	0.273	0.0	0	0.000
44	T	4-Methyl-2-Pentanone	-1.000	0.212	0.0	0	0.000
45	T	trans-1,3-Dichloropropene	-1.000	0.251	0.0	0	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	-1.000	0.085	0.0	0	0.000
48	C	Toluene	-1.000	0.345	0.0	0	0.000
49	T	Tetrachloroethene	-1.000	0.380	0.0	0	0.000
50	T	1,1,2-Trichloroethane	-1.000	0.274	0.0	0	0.000
51	T	Dibromochloromethane	-1.000	1.305	0.0	0	0.000
52	T	1,3-Dichloropropane	-1.000	0.308	0.0	0	0.000
53	T	1,2-Dibromoethane	-1.000	0.319	0.0	0	0.000
54	T	2-Hexanone	-1.000	0.340	0.0	0	0.000
55	P	Chlorobenzene	-1.000	0.345	0.0	0	0.000
56	T	1-Chlorohexane	-1.000	0.316	0.0	0	0.000
57	C	Ethylbenzene	-1.000	0.337	0.0	0	0.000

Data File : D:\MassHunter\GCMS\1\data\052016\17M021258.D Vial: 4
Acq On : 20 May 2016 16:52 Operator: ADC
Sample : WG569734-03 0.3ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 10:56:43 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:56:06 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
58	T	1,1,1,2-Tetrachloroethane	-1.000	0.277	0.0	0	0.000
59	T	m-,p-Xylene	-1.000	0.701	0.0	0	0.000
60	T	o-Xylene	-1.000	0.309	0.0	0	0.000
61	T	Styrene	-1.000	0.319	0.0	0	0.000
62	P	Bromoform	-1.000	0.570	0.0	0	0.000
63	T	Isopropylbenzene	-1.000	0.328	0.0	0	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
65	T	1,3,5-Trimethylbenzene	-1.000	0.332	0.0	0	0.000
66	S	p-Bromofluorobenzene	-1.000	0.224	0.0	0	0.000
67	T	Bromobenzene	0.300	0.338	-12.7	100	0.000
68	T	n-Propylbenzene	-1.000	0.352	0.0	0	0.000
69	P	1,1,2,2-Tetrachloroethane	-1.000	1.066	0.0	0	0.000
70	T	2-Chlorotoluene	-1.000	0.349	0.0	0	0.000
71	T	1,2,3-Trichloropropane	-1.000	0.204	0.0	0	0.000
72	T	trans-1,4-Dichloro-2-Butene	-1.000	0.000	0.0	0	-8.850#
73	T	1,2,4-Trimethylbenzene	-1.000	0.335	0.0	0	0.000
74	T	4-Chlorotoluene	-1.000	0.352	0.0	0	0.000
75	T	tert-Butylbenzene	-1.000	0.336	0.0	0	0.000
76	T	sec-Butylbenzene	-1.000	0.352	0.0	0	0.000
77	T	p-Isopropyltoluene	-1.000	0.347	0.0	0	0.000
78	T	1,3-Dichlorobenzene	-1.000	0.397	0.0	0	0.000
79	T	1,4-Dichlorobenzene	0.300	0.394	-31.3#	100	0.000
80	T	n-Butylbenzene	-1.000	0.375	0.0	0	0.000
81	T	1,2-Dichlorobenzene	0.300	0.363	-21.0	100	0.000
82	T	1,2-Dibromo-3-Chloropropane	-1.000	0.238	0.0	0	0.000
83	T	Hexachlorobutadiene	-1.000	0.415	0.0	0	0.000
84	T	1,2,4-Trichlorobenzene	-1.000	0.415	0.0	0	0.000
85	T	Naphthalene	-1.000	0.350	0.0	0	0.000
86	T	1,2,3-Trichlorobenzene	-1.000	0.403	0.0	0	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021259.D Vial: 5
Acq On : 20 May 2016 17:12 Operator: ADC
Sample : WG569734-04 0.4ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:03 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	387225	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	290874	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	155963	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	0.000	111	0	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.000%#		
34) 1,2-Dichloroethane-d4	0.000	65	0	0.0000	ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.000%#		
47) Toluene-d8	6.574	98	933	0.0601	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.240%#		
66) p-Bromofluorobenzene	8.633	95	858	0.1591	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.636%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.998	85	2157	0.3829	ug/L #	71
3) Chloromethane	1.105	50	2127	0.4221	ug/L	90
4) Vinyl Chloride	1.148	62	1927	0.3821	ug/L	94
5) 1,3-Butadiene	1.157	54	1568	0.3857	ug/L	99
6) Bromomethane	1.328	94	1691	0.5298	ug/L	100
7) Chloroethane	1.395	64	887	0.3923	ug/L	81
8) Trichlorofluoromethane	1.476	101	2637	0.3953	ug/L	99
9) Diethyl ether	1.672	59	920	0.3556	ug/L #	68
10) 1,1-Dichloroethene	1.783	61	2714	0.4300	ug/L	100
11) Carbon Disulfide	1.803	76	5307	0.4436	ug/L #	94
12) 1,1,2-Trichloro-1,2,2-...	1.811	101	1514	0.3901	ug/L	95
13) Iodomethane	1.866	142	429	1.1561	ug/L #	34
15) Methylene Chloride	2.185	84	1966	0.4655	ug/L	95
16) Acetone	2.234	43	559	0.9127	ug/L #	45
17) trans-1,2-Dichloroethene	2.309	96	1736	0.4218	ug/L	98
18) Methyl acetate	2.330	43	627	0.3168	ug/L #	57
19) Methyl Tert Butyl Ether	2.414	73	3522	0.3954	ug/L	92
20) 1,1-Dichloroethane	2.836	63	3109	0.4032	ug/L	94
23) cis-1,2-Dichloroethene	3.389	96	1773	0.3864	ug/L	98
24) 2,2-Dichloropropane	3.514	77	2420	0.3961	ug/L	99
25) Cyclohexane	3.612	56	2469	0.3778	ug/L	97
26) Bromochloromethane	3.621	130	997	0.3572	ug/L	94
27) Chloroform	3.743	83	3055	0.3988	ug/L	94
28) Carbon Tetrachloride	3.882	117	1685	0.2906	ug/L #	88
30) 1,1,1-Trichloroethane	3.977	97	2688	0.3930	ug/L	94
31) 1,1-Dichloropropene	4.165	75	2278	0.4074	ug/L #	74
32) 2-Butanone	4.186	43	175	0.1805	ug/L #	34
33) Benzene	4.469	78	6801	0.4011	ug/L	100
35) 1,2-Dichloroethane	4.718	62	1865	0.3885	ug/L #	91
36) Methylcyclohexane	5.141	83	2766	0.4099	ug/L	97
37) Trichloroethene	5.167	130	2547	0.4444	ug/L	96
38) Dibromomethane	5.596	93	864	0.3743	ug/L	94
39) 1,2-Dichloropropane	5.706	63	1839	0.4117	ug/L	100
40) Bromodichloromethane	5.801	83	1901	0.3506	ug/L	99
42) 2-Chloroethyl Vinyl Ether	6.392	63	361	0.8350	ug/L #	43
43) cis-1,3-Dichloropropene	6.409	75	2056	0.3458	ug/L	95
44) 4-Methyl-2-Pentanone	7.000	58	202	0.2358	ug/L #	23
45) trans-1,3-Dichloropropene	7.017	75	1454	0.3013	ug/L	95
48) Toluene	6.624	91	7701	0.4164	ug/L	100
49) Tetrachloroethene	6.956	166	2330	0.4332	ug/L	97
50) 1,1,2-Trichloroethane	7.145	97	1203	0.3931	ug/L	96
51) Dibromochloromethane	7.287	129	1173	0.5067	ug/L	98
52) 1,3-Dichloropropane	7.373	76	1961	0.3985	ug/L	100
53) 1,2-Dibromoethane	7.463	107	1160	0.3789	ug/L	98
54) 2-Hexanone	7.709	43	651	0.4261	ug/L	94
55) Chlorobenzene	7.877	112	5158	0.4244	ug/L #	34

Data File : D:\MassHunter\GCMS\1\data\052016\17M021259.D Vial: 5
Acq On : 20 May 2016 17:12 Operator: ADC
Sample : WG569734-04 0.4ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:03 2016

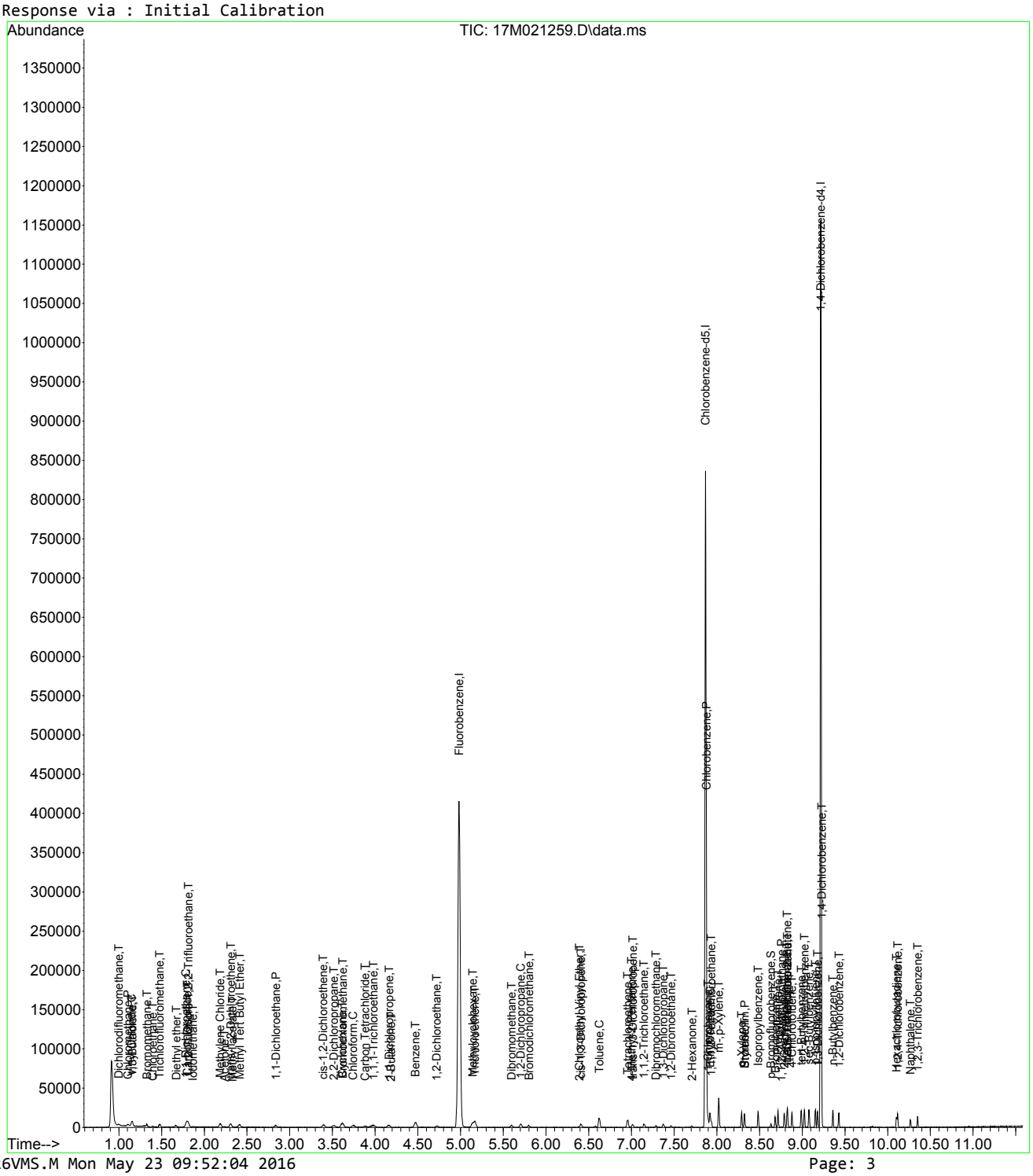
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
56) 1-Chlorohexane	7.897	69	326	0.3240	ug/L	#	26
57) Ethylbenzene	7.921	106	2611	0.4085	ug/L		96
58) 1,1,1,2-Tetrachloroethane	7.935	131	1464	0.3451	ug/L		92
59) m-,p-Xylene	8.022	106	6129	0.8098	ug/L		99
60) o-Xylene	8.291	106	3060	0.4120	ug/L		91
61) Styrene	8.326	104	4424	0.3734	ug/L		99
62) Bromoform	8.326	173	605	0.5615	ug/L	#	81
63) Isopropylbenzene	8.482	105	7822	0.4065	ug/L		97
65) 1,3,5-Trimethylbenzene	8.827	105	6241	0.3920	ug/L		99
67) Bromobenzene	8.685	156	2205	0.4050	ug/L		97
68) n-Propylbenzene	8.717	91	8601	0.4051	ug/L		99
69) 1,1,2,2-Tetrachloroethane	8.757	83	284	1.1123	ug/L	#	65
70) 2-Chlorotoluene	8.789	91	5403	0.4126	ug/L		99
71) 1,2,3-Trichloropropane	8.821	110	302	0.3403	ug/L		84
72) trans-1,4-Dichloro-2-B...	8.824	53	113	0.8591	ug/L	#	1
73) 1,2,4-Trimethylbenzene	9.024	105	6277	0.3940	ug/L		98
74) 4-Chlorotoluene	8.879	91	5702	0.4200	ug/L		96
75) tert-Butylbenzene	8.989	134	1134	0.3785	ug/L		87
76) sec-Butylbenzene	9.079	105	7970	0.4027	ug/L		100
77) p-Isopropyltoluene	9.154	119	6483	0.3937	ug/L		98
78) 1,3-Dichlorobenzene	9.180	146	4297	0.4341	ug/L		96
79) 1,4-Dichlorobenzene	9.226	146	4593	0.4496	ug/L		91
80) n-Butylbenzene	9.357	91	6402	0.4171	ug/L		99
81) 1,2-Dichlorobenzene	9.429	146	3859	0.4159	ug/L		99
83) Hexachlorobutadiene	10.104	225	1457	0.4041	ug/L		95
84) 1,2,4-Trichlorobenzene	10.118	180	3121	0.4541	ug/L		94
85) Naphthalene	10.266	128	3942	0.3758	ug/L		97
86) 1,2,3-Trichlorobenzene	10.350	180	2515	0.4173	ug/L		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021259.D Vial: 5
Acq On : 20 May 2016 17:12 Operator: ADC
Sample : WG569734-04 0.4ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:03 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



826VMS.M Mon May 23 09:52:04 2016 Page: 3

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\052016\17M021259.D Vial: 5
Acq On : 20 May 2016 17:12 Operator: ADC
Sample : WG569734-04 0.4ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 11:04:26 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.000
2	T	Dichlorodifluoromethane	-1.000	0.383	0.0	0	0.000
3	P	Chloromethane	-1.000	0.422	0.0	0	0.000
4	C	Vinyl Chloride	0.400	0.382	4.5#	100	0.000
5	T	1,3-Butadiene	-1.000	0.386	0.0	0	0.000
6	T	Bromomethane	-1.000	0.530	0.0	0	0.000
7	T	Chloroethane	-1.000	0.392	0.0	0	0.000
8	T	Trichlorofluoromethane	0.400	0.395	1.3	100	0.000
9	T	Diethyl ether	-1.000	0.356	0.0	0	0.000
10	C	1,1-Dichloroethene	0.400	0.430	-7.5#	100	0.000
11	T	Carbon Disulfide	0.400	0.444	-11.0	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.400	0.390	2.5	100	0.000
13	T	Iodomethane	-1.000	1.156	0.0	0	-0.012
14	T	Acrolein	-1.000	0.000	0.0	0	-2.014#
15	T	Methylene Chloride	0.400	0.465	-16.3	100	0.000
16	T	Acetone	-1.000	0.913	0.0	0	0.000
17	T	trans-1,2-Dichloroethene	0.400	0.422	-5.5	100	0.000
18	T	Methyl acetate	0.400	0.317	20.8	0	0.000
19	T	Methyl Tert Butyl Ether	0.400	0.395	1.3	100	0.000
20	P	1,1-Dichloroethane	0.400	0.403	-0.8	100	0.000
21	T	Acrylonitrile	-1.000	0.000	0.0	0	-2.889#
22	T	Vinyl Acetate	-1.000	0.000	0.0	0	-3.120#
23	T	cis-1,2-Dichloroethene	0.400	0.386	3.5	100	0.000
24	T	2,2-Dichloropropane	0.400	0.396	1.0	100	0.000
25	T	Cyclohexane	0.400	0.378	5.5	100	0.000
26	T	Bromochloromethane	-1.000	0.357	0.0	0	0.000
27	C	Chloroform	0.400	0.399	0.3#	100	0.000
28	T	Carbon Tetrachloride	0.400	0.291	27.3#	100	0.000
29	S	Dibromofluoromethane	-1.000	0.000	0.0	0	-3.980#
30	T	1,1,1-Trichloroethane	0.400	0.393	1.8	100	0.000
31	T	1,1-Dichloropropene	0.400	0.407	-1.7	100	0.000
32	T	2-Butanone	-1.000	0.181	0.0	0	0.000
33	T	Benzene	0.400	0.401	-0.3	100	0.000
34	S	1,2-Dichloroethane-d4	-1.000	0.000	0.0	0	-4.643#
35	T	1,2-Dichloroethane	0.400	0.388	3.0	100	0.000
36	T	Methylcyclohexane	0.400	0.410	-2.5	100	0.000
37	T	Trichloroethene	0.400	0.444	-11.0	100	0.000
38	T	Dibromomethane	0.400	0.374	6.5	100	0.000
39	C	1,2-Dichloropropane	0.400	0.412	-3.0#	100	0.000
40	T	Bromodichloromethane	0.400	0.351	12.3	100	0.000
41	T	1,4-Dioxane	-1.000	0.000	0.0	0	-6.010#
42	T	2-Chloroethyl Vinyl Ether	-1.000	0.835	0.0	0	0.000
43	T	cis-1,3-Dichloropropene	0.400	0.346	13.5	100	0.000
44	T	4-Methyl-2-Pentanone	-1.000	0.236	0.0	0	0.000
45	T	trans-1,3-Dichloropropene	-1.000	0.301	0.0	0	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	-1.000	0.060	0.0	0	0.000
48	C	Toluene	0.400	0.416	-4.0#	100	0.000
49	T	Tetrachloroethene	0.400	0.433	-8.2	100	0.000
50	T	1,1,2-Trichloroethane	0.400	0.393	1.8	100	0.000
51	T	Dibromochloromethane	0.400	0.507	-26.7#	100	0.000
52	T	1,3-Dichloropropane	0.400	0.398	0.5	100	0.000
53	T	1,2-Dibromoethane	0.400	0.379	5.3	100	0.000
54	T	2-Hexanone	-1.000	0.426	0.0	0	0.000
55	P	Chlorobenzene	0.400	0.424	-6.0	100	0.000
56	T	1-Chlorohexane	-1.000	0.324	0.0	0	0.000
57	C	Ethylbenzene	0.400	0.408	-2.0#	100	0.000

Data File : D:\MassHunter\GCMS\1\data\052016\17M021259.D Vial: 5
Acq On : 20 May 2016 17:12 Operator: ADC
Sample : WG569734-04 0.4ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 11:04:26 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
58	T	1,1,1,2-Tetrachloroethane	0.400	0.345	13.8	100	0.000
59	T	m-,p-Xylene	0.800	0.810	-1.3	100	0.000
60	T	o-Xylene	0.400	0.412	-3.0	100	0.000
61	T	Styrene	0.400	0.373	6.8	100	0.000
62	P	Bromoform	0.400	0.562	-40.5#	100	0.000
63	T	Isopropylbenzene	0.400	0.406	-1.5	100	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
65	T	1,3,5-Trimethylbenzene	0.400	0.392	2.0	100	0.000
66	S	p-Bromofluorobenzene	-1.000	0.159	0.0	0	0.000
67	T	Bromobenzene	0.400	0.405	-1.3	100	0.000
68	T	n-Propylbenzene	0.400	0.405	-1.3	100	0.000
69	P	1,1,2,2-Tetrachloroethane	-1.000	1.112	0.0	0	0.000
70	T	2-Chlorotoluene	0.400	0.413	-3.2	100	0.000
71	T	1,2,3-Trichloropropane	-1.000	0.340	0.0	0	0.000
72	T	trans-1,4-Dichloro-2-Butene	-1.000	0.859	0.0	0	-0.026
73	T	1,2,4-Trimethylbenzene	0.400	0.394	1.5	100	0.000
74	T	4-Chlorotoluene	0.400	0.420	-5.0	100	0.000
75	T	tert-Butylbenzene	0.400	0.378	5.5	100	0.000
76	T	sec-Butylbenzene	0.400	0.403	-0.8	100	0.000
77	T	p-Isopropyltoluene	0.400	0.394	1.5	100	0.000
78	T	1,3-Dichlorobenzene	0.400	0.434	-8.5	100	0.000
79	T	1,4-Dichlorobenzene	0.400	0.450	-12.5	100	0.000
80	T	n-Butylbenzene	0.400	0.417	-4.2	100	0.000
81	T	1,2-Dichlorobenzene	0.400	0.416	-4.0	100	0.000
82	T	1,2-Dibromo-3-Chloropropane	-1.000	0.000	0.0	0	-9.806#
83	T	Hexachlorobutadiene	0.400	0.404	-1.0	100	0.000
84	T	1,2,4-Trichlorobenzene	0.400	0.454	-13.5	100	0.000
85	T	Naphthalene	0.400	0.376	6.0	100	0.000
86	T	1,2,3-Trichlorobenzene	0.400	0.417	-4.2	100	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021260.D Vial: 6
Acq On : 20 May 2016 17:31 Operator: ADC
Sample : WG569734-05 1.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:06 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.982	96	387000	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	288303	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	154149	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	0.000	111	0	0.0000 ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.000%#	
34) 1,2-Dichloroethane-d4	0.000	65	0	0.0000 ug/L	
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.000%#	
47) Toluene-d8	6.580	98	769	0.0499 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.200%#	
66) p-Bromofluorobenzene	8.633	95	630	0.1182 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.473%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.995	85	5146	0.9141 ug/L	98
3) Chloromethane	1.102	50	5085	1.0097 ug/L	99
4) Vinyl Chloride	1.151	62	4930	0.9781 ug/L	99
5) 1,3-Butadiene	1.154	54	3956	0.9737 ug/L	99
6) Bromomethane	1.325	94	3856	1.2088 ug/L	100
7) Chloroethane	1.397	64	2645	1.1704 ug/L	94
8) Trichlorofluoromethane	1.479	101	7019	1.0527 ug/L	99
9) Diethyl ether	1.664	59	2521	0.9751 ug/L	86
10) 1,1-Dichloroethene	1.788	61	6509	1.0319 ug/L	99
11) Carbon Disulfide	1.800	76	12144	1.0157 ug/L	98
12) 1,1,2-Trichloro-1,2,2-...	1.817	101	3840	0.9899 ug/L	98
13) Iodomethane	1.875	142	1637	1.3570 ug/L	91
14) Acrolein	2.006	56	386	0.8425 ug/L	76
15) Methylene Chloride	2.191	84	4489	1.0635 ug/L	99
16) Acetone	2.231	43	892	1.4573 ug/L #	45
17) trans-1,2-Dichloroethene	2.304	96	4148	1.0085 ug/L	98
18) Methyl acetate	2.336	43	1730	0.8747 ug/L #	76
19) Methyl Tert Butyl Ether	2.411	73	8768	0.9850 ug/L	100
20) 1,1-Dichloroethane	2.836	63	7812	1.0136 ug/L	100
21) Acrylonitrile	2.886	53	724	0.8609 ug/L	94
23) cis-1,2-Dichloroethene	3.395	96	4618	1.0069 ug/L	98
24) 2,2-Dichloropropane	3.514	77	6097	0.9985 ug/L	96
25) Cyclohexane	3.610	56	6560	1.0043 ug/L	97
26) Bromochloromethane	3.618	130	2776	0.9950 ug/L	93
27) Chloroform	3.746	83	7900	1.0319 ug/L	96
28) Carbon Tetrachloride	3.887	117	5100	0.8802 ug/L	99
30) 1,1,1-Trichloroethane	3.980	97	6819	0.9975 ug/L	99
31) 1,1-Dichloropropene	4.157	75	5608	1.0035 ug/L	99
32) 2-Butanone	4.174	43	891	0.9198 ug/L #	34
33) Benzene	4.472	78	17392	1.0264 ug/L	100
35) 1,2-Dichloroethane	4.724	62	4857	1.0123 ug/L	97
36) Methylcyclohexane	5.144	83	6625	0.9824 ug/L	98
37) Trichloroethene	5.170	130	6446	1.1253 ug/L	99
38) Dibromomethane	5.596	93	2307	1.0001 ug/L	100
39) 1,2-Dichloropropane	5.703	63	4330	0.9699 ug/L	100
40) Bromodichloromethane	5.795	83	4989	0.9206 ug/L	98
42) 2-Chloroethyl Vinyl Ether	6.395	63	1069	1.2688 ug/L	96
43) cis-1,3-Dichloropropene	6.412	75	5199	0.8749 ug/L	99
44) 4-Methyl-2-Pentanone	7.006	58	790	0.9226 ug/L	84
45) trans-1,3-Dichloropropene	7.014	75	3871	0.8027 ug/L	97
48) Toluene	6.621	91	18566	1.0128 ug/L	99
49) Tetrachloroethene	6.957	166	5593	1.0491 ug/L	100
50) 1,1,2-Trichloroethane	7.148	97	3008	0.9918 ug/L	96
51) Dibromochloromethane	7.290	129	3075	0.9592 ug/L	94
52) 1,3-Dichloropropane	7.371	76	4915	1.0076 ug/L	100
53) 1,2-Dibromoethane	7.460	107	2888	0.9518 ug/L	96

Data File : D:\MassHunter\GCMS\1\data\052016\17M021260.D Vial: 6
Acq On : 20 May 2016 17:31 Operator: ADC
Sample : WG569734-05 1.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:06 2016

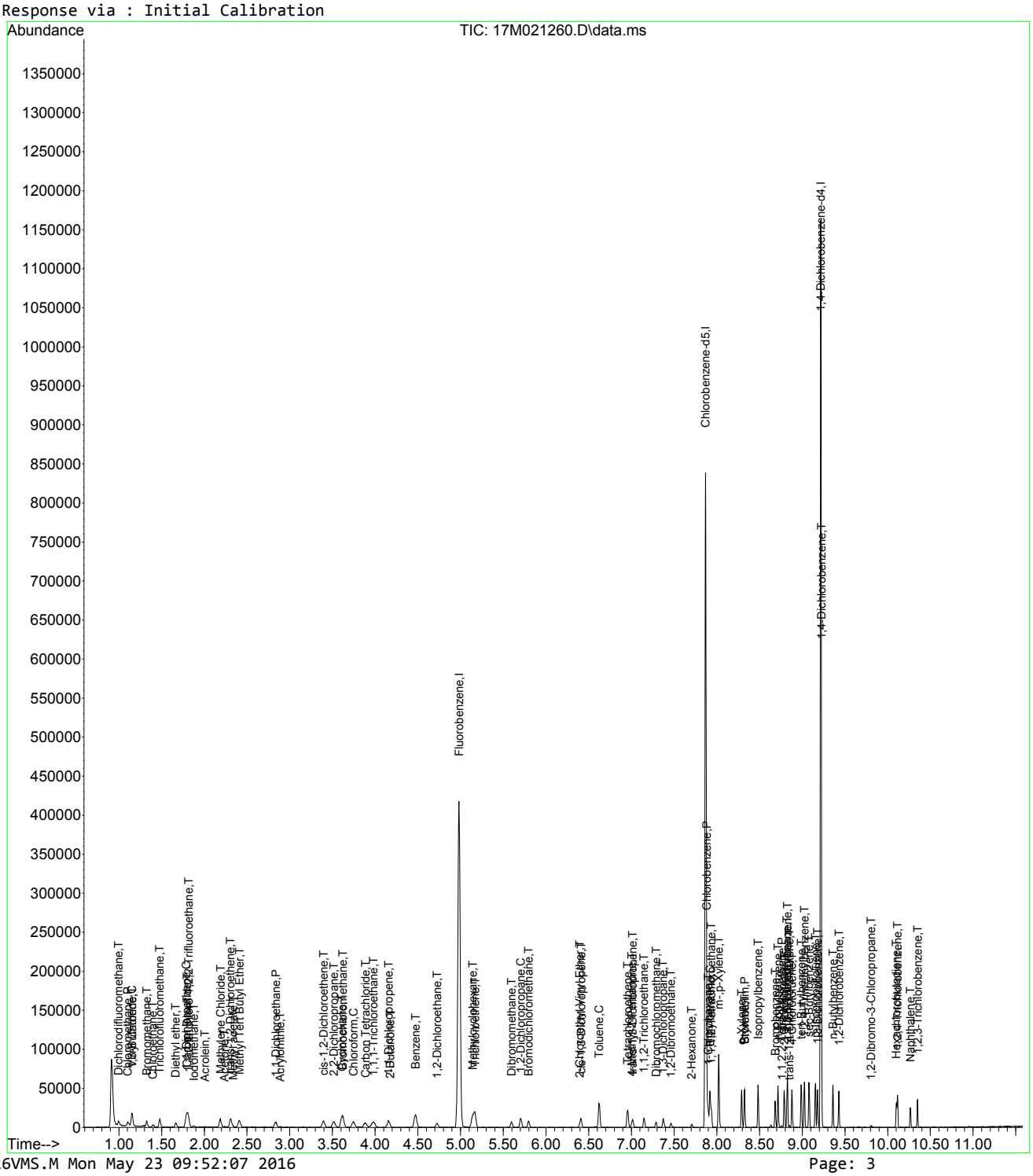
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
54) 2-Hexanone	7.704	43	1573	1.0388 ug/L #	85
55) Chlorobenzene	7.880	112	12526	1.0399 ug/L	75
56) 1-Chlorohexane	7.900	69	893	0.8954 ug/L	66
57) Ethylbenzene	7.921	106	6510	1.0275 ug/L	93
58) 1,1,1,2-Tetrachloroethane	7.935	131	4075	0.9691 ug/L	94
59) m-,p-Xylene	8.022	106	15092	2.0118 ug/L	100
60) o-Xylene	8.291	106	7393	1.0042 ug/L	98
61) Styrene	8.326	104	11045	0.9407 ug/L	99
62) Bromoform	8.326	173	1779	0.9952 ug/L	96
63) Isopropylbenzene	8.482	105	19061	0.9994 ug/L	100
65) 1,3,5-Trimethylbenzene	8.827	105	16011	1.0175 ug/L	99
67) Bromobenzene	8.685	156	5498	1.0218 ug/L	99
68) n-Propylbenzene	8.717	91	21148	1.0078 ug/L	99
69) 1,1,2,2-Tetrachloroethane	8.760	83	963	1.4174 ug/L	89
70) 2-Chlorotoluene	8.789	91	13582	1.0493 ug/L	100
71) 1,2,3-Trichloropropane	8.821	110	893	1.0181 ug/L	97
72) trans-1,4-Dichloro-2-B...	8.847	53	286	1.2629 ug/L #	92
73) 1,2,4-Trimethylbenzene	9.024	105	15742	0.9997 ug/L	100
74) 4-Chlorotoluene	8.879	91	13837	1.0312 ug/L	97
75) tert-Butylbenzene	8.989	134	2957	0.9986 ug/L	95
76) sec-Butylbenzene	9.079	105	20065	1.0257 ug/L	99
77) p-Isopropyltoluene	9.154	119	15964	0.9808 ug/L	100
78) 1,3-Dichlorobenzene	9.180	146	10222	1.0448 ug/L	98
79) 1,4-Dichlorobenzene	9.224	146	10394	1.0295 ug/L	97
80) n-Butylbenzene	9.360	91	15061	0.9928 ug/L	99
81) 1,2-Dichlorobenzene	9.429	146	9600	1.0467 ug/L	100
82) 1,2-Dibromo-3-Chloropr...	9.806	75	340	0.7223 ug/L	91
83) Hexachlorobutadiene	10.101	225	3336	0.9360 ug/L	97
84) 1,2,4-Trichlorobenzene	10.115	180	6557	0.9653 ug/L	98
85) Naphthalene	10.266	128	9581	0.9242 ug/L	99
86) 1,2,3-Trichlorobenzene	10.350	180	5787	0.9715 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021260.D Vial: 6
Acq On : 20 May 2016 17:31 Operator: ADC
Sample : WG569734-05 1.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:06 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



826VMS.M Mon May 23 09:52:07 2016 Page: 3

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\052016\17M021260.D Vial: 6
Acq On : 20 May 2016 17:31 Operator: ADC
Sample : WG569734-05 1.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 10:59:28 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:58:41 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.000
2	T	Dichlorodifluoromethane	1.000	0.914	8.6	100	0.000
3	P	Chloromethane	1.000	1.010	-1.0	99	0.000
4	C	Vinyl Chloride	1.000	0.978	2.2#	100	0.000
5	T	1,3-Butadiene	1.000	0.974	2.6	100	0.000
6	T	Bromomethane	1.000	1.209	-20.9	100	0.000
7	T	Chloroethane	1.000	1.170	-17.0	100	0.000
8	T	Trichlorofluoromethane	1.000	1.053	-5.3	100	0.000
9	T	Diethyl ether	1.000	0.975	2.5	100	0.000
10	C	1,1-Dichloroethene	1.000	1.032	-3.2#	100	0.000
11	T	Carbon Disulfide	1.000	1.016	-1.6	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	1.000	0.990	1.0	100	0.000
13	T	Iodomethane	1.000	1.357	-35.7#	100	0.000
14	T	Acrolein	-1.000	0.843	0.0	0	0.000
15	T	Methylene Chloride	1.000	1.063	-6.3	100	0.000
16	T	Acetone	-1.000	1.457	0.0	0	0.000
17	T	trans-1,2-Dichloroethene	1.000	1.008	-0.8	100	0.000
18	T	Methyl acetate	1.000	0.875	12.5	100	0.000
19	T	Methyl Tert Butyl Ether	1.000	0.985	1.5	100	0.000
20	P	1,1-Dichloroethane	1.000	1.014	-1.4	100	0.000
21	T	Acrylonitrile	-1.000	0.861	0.0	0	0.000
22	T	Vinyl Acetate	-1.000	0.000	0.0	0	-3.120#
23	T	cis-1,2-Dichloroethene	1.000	1.007	-0.7	100	0.000
24	T	2,2-Dichloropropane	1.000	0.998	0.2	100	0.000
25	T	Cyclohexane	1.000	1.004	-0.4	100	0.000
26	T	Bromochloromethane	1.000	0.995	0.5	100	0.000
27	C	Chloroform	1.000	1.032	-3.2#	100	0.000
28	T	Carbon Tetrachloride	1.000	0.880	12.0	100	0.000
29	S	Dibromofluoromethane	-1.000	0.000	0.0	0	-3.980#
30	T	1,1,1-Trichloroethane	1.000	0.998	0.2	100	0.000
31	T	1,1-Dichloropropene	1.000	1.003	-0.3	100	0.000
32	T	2-Butanone	-1.000	0.920	0.0	0	0.000
33	T	Benzene	1.000	1.026	-2.6	100	0.000
34	S	1,2-Dichloroethane-d4	-1.000	0.000	0.0	0	-4.643#
35	T	1,2-Dichloroethane	1.000	1.012	-1.2	100	0.000
36	T	Methylcyclohexane	1.000	0.982	1.8	100	0.000
37	T	Trichloroethene	1.000	1.125	-12.5	100	0.000
38	T	Dibromomethane	1.000	1.000	0.0	100	0.000
39	C	1,2-Dichloropropane	1.000	0.970	3.0#	100	0.000
40	T	Bromodichloromethane	1.000	0.921	7.9	100	0.000
41	T	1,4-Dioxane	-1.000	0.000	0.0	0	-6.010#
42	T	2-Chloroethyl Vinyl Ether	1.000	1.269	-26.9#	100	0.000
43	T	cis-1,3-Dichloropropene	1.000	0.875	12.5	100	0.000
44	T	4-Methyl-2-Pentanone	-1.000	0.923	0.0	0	0.000
45	T	trans-1,3-Dichloropropene	1.000	0.803	19.7	100	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	-1.000	0.050	0.0	0	0.000
48	C	Toluene	1.000	1.013	-1.3#	100	0.000
49	T	Tetrachloroethene	1.000	1.049	-4.9	100	0.000
50	T	1,1,2-Trichloroethane	1.000	0.992	0.8	100	0.000
51	T	Dibromochloromethane	1.000	1.389	-38.9#	100	0.000
52	T	1,3-Dichloropropane	1.000	1.008	-0.8	100	0.000
53	T	1,2-Dibromoethane	1.000	0.952	4.8	100	0.000
54	T	2-Hexanone	-1.000	1.039	0.0	0	0.000
55	P	Chlorobenzene	1.000	1.040	-4.0	100	0.000
56	T	1-Chlorohexane	1.000	0.895	10.5	100	0.000
57	C	Ethylbenzene	1.000	1.028	-2.8#	100	0.000

Data File : D:\MassHunter\GCMS\1\data\052016\17M021260.D Vial: 6
Acq On : 20 May 2016 17:31 Operator: ADC
Sample : WG569734-05 1.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 10:59:28 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:58:41 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
58	T	1,1,1,2-Tetrachloroethane	1.000	0.969	3.1	100	0.000
59	T	m-,p-Xylene	2.000	2.012	-0.6	100	0.000
60	T	o-Xylene	1.000	1.004	-0.4	100	0.000
61	T	Styrene	1.000	0.941	5.9	100	0.000
62	P	Bromoform	1.000	0.995	0.5	100	0.000
63	T	Isopropylbenzene	1.000	0.999	0.1	100	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
65	T	1,3,5-Trimethylbenzene	1.000	1.018	-1.8	100	0.000
66	S	p-Bromofluorobenzene	-1.000	0.118	0.0	0	0.000
67	T	Bromobenzene	1.000	1.022	-2.2	100	0.000
68	T	n-Propylbenzene	1.000	1.008	-0.8	100	0.000
69	P	1,1,2,2-Tetrachloroethane	1.000	1.417	-41.7#	100	0.000
70	T	2-Chlorotoluene	1.000	1.049	-4.9	100	0.000
71	T	1,2,3-Trichloropropane	1.000	1.018	-1.8	100	0.000
72	T	trans-1,4-Dichloro-2-Butene	1.000	1.263	-26.3#	100	0.000
73	T	1,2,4-Trimethylbenzene	1.000	1.000	0.0	100	0.000
74	T	4-Chlorotoluene	1.000	1.031	-3.1	100	0.000
75	T	tert-Butylbenzene	1.000	0.999	0.1	100	0.000
76	T	sec-Butylbenzene	1.000	1.026	-2.6	100	0.000
77	T	p-Isopropyltoluene	1.000	0.981	1.9	100	0.000
78	T	1,3-Dichlorobenzene	1.000	1.045	-4.5	100	0.000
79	T	1,4-Dichlorobenzene	1.000	1.030	-3.0	100	0.000
80	T	n-Butylbenzene	1.000	0.993	0.7	100	0.000
81	T	1,2-Dichlorobenzene	1.000	1.047	-4.7	100	0.000
82	T	1,2-Dibromo-3-Chloropropane	-1.000	0.722	0.0	0	0.000
83	T	Hexachlorobutadiene	1.000	0.936	6.4	100	0.000
84	T	1,2,4-Trichlorobenzene	1.000	0.965	3.5	100	0.000
85	T	Naphthalene	1.000	0.924	7.6	100	0.000
86	T	1,2,3-Trichlorobenzene	1.000	0.972	2.8	100	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data File : D:\MassHunter\GCMS\1\data\052016\17M021261.D Vial: 7
Acq On : 20 May 2016 17:51 Operator: ADC
Sample : WG569734-06 2.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:09 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	375400	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.868	117	283059	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	154822	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	0.000	111	0	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.000%#		
34) 1,2-Dichloroethane-d4	4.718	65	253	0.0688	ug/L	0.0753
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.275%#		
47) Toluene-d8	6.580	98	723	0.0478	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.191%#		
66) p-Bromofluorobenzene	8.633	95	736	0.1375	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.550%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.995	85	9996	1.8305	ug/L	98
3) Chloromethane	1.102	50	9667	1.9789	ug/L	99
4) Vinyl Chloride	1.148	62	9711	1.9863	ug/L	100
5) 1,3-Butadiene	1.154	54	7666	1.9451	ug/L	99
6) Bromomethane	1.322	94	6996	2.2609	ug/L	99
7) Chloroethane	1.394	64	4873	2.2230	ug/L	97
8) Trichlorofluoromethane	1.478	101	13278	2.0529	ug/L	98
9) Diethyl ether	1.661	59	5160	2.0575	ug/L	94
10) 1,1-Dichloroethene	1.785	61	12551	2.0512	ug/L	99
11) Carbon Disulfide	1.797	76	22182	1.9127	ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.811	101	7553	2.0073	ug/L	99
13) Iodomethane	1.875	142	4759	1.9007	ug/L	99
14) Acrolein	2.008	56	900	2.0251	ug/L	96
15) Methylene Chloride	2.185	84	8517	2.0801	ug/L	100
16) Acetone	2.237	43	1623	2.7335	ug/L	84
17) trans-1,2-Dichloroethene	2.307	96	7781	1.9502	ug/L	99
18) Methyl acetate	2.330	43	3823	1.9926	ug/L #	92
19) Methyl Tert Butyl Ether	2.408	73	17995	2.0840	ug/L	99
20) 1,1-Dichloroethane	2.836	63	14915	1.9950	ug/L	99
21) Acrylonitrile	2.888	53	1624	1.9907	ug/L	100
23) cis-1,2-Dichloroethene	3.395	96	8814	1.9812	ug/L	99
24) 2,2-Dichloropropane	3.523	77	11652	1.9671	ug/L	96
25) Cyclohexane	3.609	56	12249	1.9333	ug/L	96
26) Bromochloromethane	3.621	130	5473	2.0223	ug/L	99
27) Chloroform	3.745	83	14895	2.0056	ug/L	98
28) Carbon Tetrachloride	3.884	117	10460	1.8611	ug/L	99
30) 1,1,1-Trichloroethane	3.980	97	13200	1.9907	ug/L	99
31) 1,1-Dichloropropene	4.154	75	10577	1.9511	ug/L	99
32) 2-Butanone	4.177	43	2017	2.1464	ug/L #	81
33) Benzene	4.469	78	33136	2.0161	ug/L	100
35) 1,2-Dichloroethane	4.721	62	9647	2.0727	ug/L	99
36) Methylcyclohexane	5.138	83	12826	1.9607	ug/L	99
37) Trichloroethene	5.167	130	12193	2.1943	ug/L	99
38) Dibromomethane	5.599	93	4607	2.0589	ug/L	99
39) 1,2-Dichloropropane	5.703	63	8576	1.9804	ug/L	99
40) Bromodichloromethane	5.795	83	10291	1.9576	ug/L	97
42) 2-Chloroethyl Vinyl Ether	6.392	63	2554	2.2269	ug/L	93
43) cis-1,3-Dichloropropene	6.409	75	10828	1.8784	ug/L	99
44) 4-Methyl-2-Pentanone	7.000	58	1610	1.9384	ug/L	93
45) trans-1,3-Dichloropropene	7.014	75	8134	1.7389	ug/L	99
48) Toluene	6.623	91	35672	1.9819	ug/L	99
49) Tetrachloroethene	6.956	166	10438	1.9942	ug/L	99
50) 1,1,2-Trichloroethane	7.150	97	6056	2.0337	ug/L	99
51) Dibromochloromethane	7.287	129	6969	1.9109	ug/L	99
52) 1,3-Dichloropropane	7.373	76	9702	2.0258	ug/L	97
53) 1,2-Dibromoethane	7.463	107	6151	2.0647	ug/L	98

Data File : D:\MassHunter\GCMS\1\data\052016\17M021261.D Vial: 7
Acq On : 20 May 2016 17:51 Operator: ADC
Sample : WG569734-06 2.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:09 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

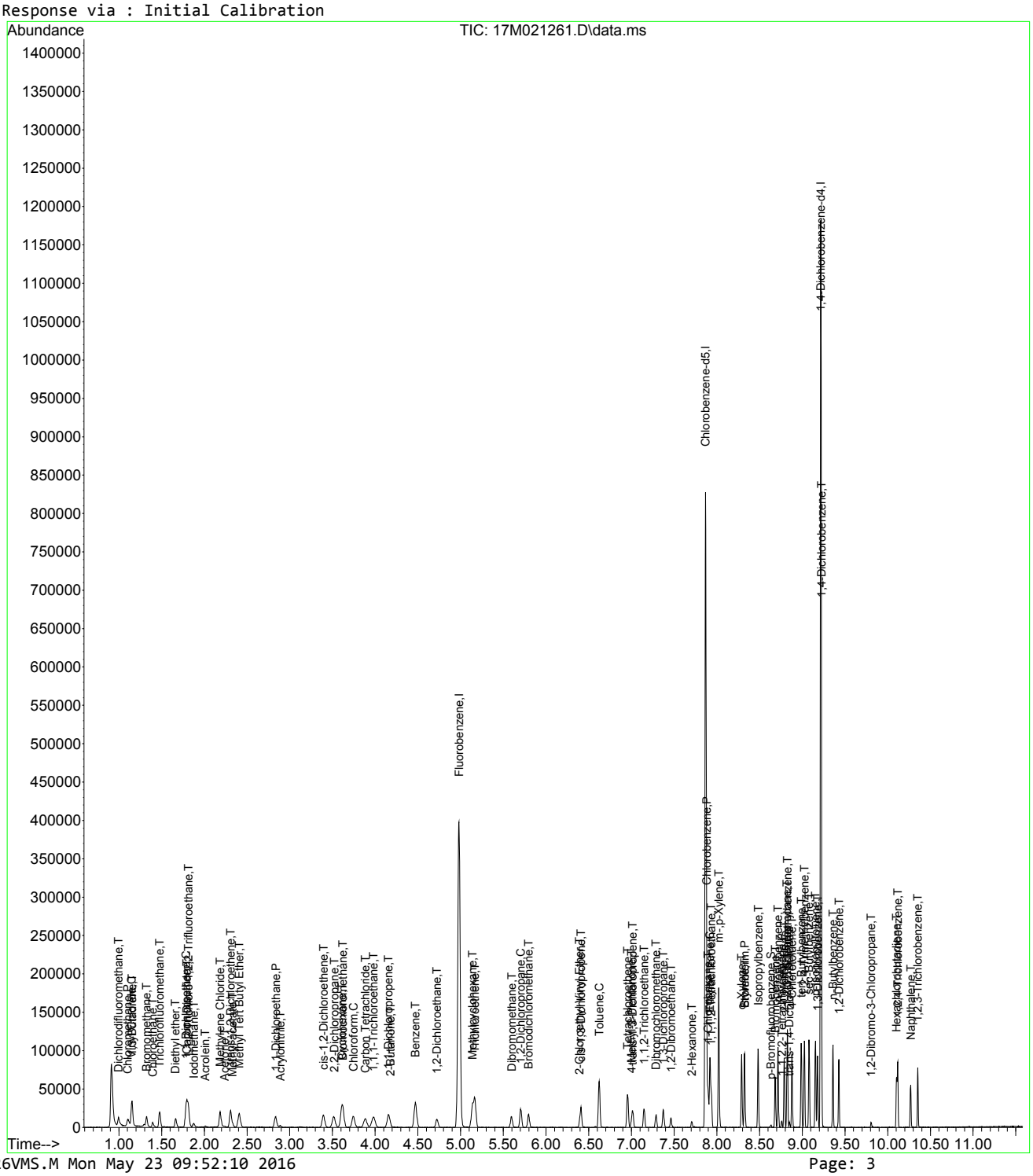
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
54) 2-Hexanone	7.706	43	3152	2.1200	ug/L		96
55) Chlorobenzene	7.880	112	23810	2.0132	ug/L		86
56) 1-Chlorohexane	7.897	69	1802	1.8404	ug/L		68
57) Ethylbenzene	7.918	106	12447	2.0010	ug/L		97
58) 1,1,1,2-Tetrachloroethane	7.935	131	7830	1.8966	ug/L		94
59) m-,p-Xylene	8.022	106	29342	3.9838	ug/L		100
60) o-Xylene	8.291	106	14418	1.9946	ug/L		97
61) Styrene	8.326	104	22368	1.9403	ug/L		100
62) Bromoform	8.326	173	3761	1.7495	ug/L		100
63) Isopropylbenzene	8.485	105	36962	1.9738	ug/L		100
65) 1,3,5-Trimethylbenzene	8.827	105	31204	1.9744	ug/L		98
67) Bromobenzene	8.685	156	10801	1.9986	ug/L		99
68) n-Propylbenzene	8.717	91	41829	1.9847	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.760	83	2262	1.9931	ug/L		99
70) 2-Chlorotoluene	8.789	91	25957	1.9966	ug/L		100
71) 1,2,3-Trichloropropane	8.821	110	1852	2.1022	ug/L		99
72) trans-1,4-Dichloro-2-B...	8.850	53	598	1.9787	ug/L	#	94
73) 1,2,4-Trimethylbenzene	9.024	105	31279	1.9778	ug/L		99
74) 4-Chlorotoluene	8.879	91	26924	1.9977	ug/L		99
75) tert-Butylbenzene	8.989	134	6048	2.0335	ug/L		98
76) sec-Butylbenzene	9.079	105	39618	2.0165	ug/L		99
77) p-Isopropyltoluene	9.154	119	32211	1.9704	ug/L		99
78) 1,3-Dichlorobenzene	9.180	146	20233	2.0590	ug/L		98
79) 1,4-Dichlorobenzene	9.223	146	19818	1.9544	ug/L		98
80) n-Butylbenzene	9.360	91	29724	1.9508	ug/L		98
81) 1,2-Dichlorobenzene	9.429	146	18583	2.0174	ug/L		99
82) 1,2-Dibromo-3-Chloropr...	9.805	75	892	1.8866	ug/L		94
83) Hexachlorobutadiene	10.104	225	6617	1.8486	ug/L		99
84) 1,2,4-Trichlorobenzene	10.118	180	13314	1.9515	ug/L		99
85) Naphthalene	10.269	128	20562	1.9749	ug/L		98
86) 1,2,3-Trichlorobenzene	10.353	180	12261	2.0495	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021261.D Vial: 7
Acq On : 20 May 2016 17:51 Operator: ADC
Sample : WG569734-06 2.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:09 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



826VMS.M Mon May 23 09:52:10 2016 Page: 3

Data File : D:\MassHunter\GCMS\1\data\052016\17M021261.D Vial: 7
Acq On : 20 May 2016 17:51 Operator: ADC
Sample : WG569734-06 2.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 11:00:19 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:58:41 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.000
2	T	Dichlorodifluoromethane	2.000	1.831	8.5	100	0.000
3	P	Chloromethane	2.000	1.979	1.0	99	0.000
4	C	Vinyl Chloride	2.000	1.986	0.7#	100	0.000
5	T	1,3-Butadiene	2.000	1.945	2.7	100	0.000
6	T	Bromomethane	2.000	2.261	-13.1	100	0.000
7	T	Chloroethane	2.000	2.223	-11.1	100	0.000
8	T	Trichlorofluoromethane	2.000	2.053	-2.6	100	0.000
9	T	Diethyl ether	2.000	2.057	-2.8	100	0.000
10	C	1,1-Dichloroethene	2.000	2.051	-2.6#	100	0.000
11	T	Carbon Disulfide	2.000	1.913	4.3	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	2.000	2.007	-0.4	100	0.000
13	T	Iodomethane	2.000	1.901	4.9	100	0.000
14	T	Acrolein	-1.000	2.025	0.0	0	0.000
15	T	Methylene Chloride	2.000	2.080	-4.0	100	0.000
16	T	Acetone	-1.000	2.733	0.0	0	0.000
17	T	trans-1,2-Dichloroethene	2.000	1.950	2.5	100	0.000
18	T	Methyl acetate	2.000	1.993	0.3	100	0.000
19	T	Methyl Tert Butyl Ether	2.000	2.084	-4.2	100	0.000
20	P	1,1-Dichloroethane	2.000	1.995	0.2	100	0.000
21	T	Acrylonitrile	2.000	1.991	0.4	100	0.000
22	T	Vinyl Acetate	-1.000	0.000	0.0	0	-3.120#
23	T	cis-1,2-Dichloroethene	2.000	1.981	0.9	100	0.000
24	T	2,2-Dichloropropane	2.000	1.967	1.6	100	0.000
25	T	Cyclohexane	2.000	1.933	3.3	100	0.000
26	T	Bromochloromethane	2.000	2.022	-1.1	100	0.000
27	C	Chloroform	2.000	2.006	-0.3#	100	0.000
28	T	Carbon Tetrachloride	2.000	1.861	7.0	100	0.000
29	S	Dibromofluoromethane	-1.000	0.000	0.0	0	-3.980#
30	T	1,1,1-Trichloroethane	2.000	1.991	0.4	100	0.000
31	T	1,1-Dichloropropene	2.000	1.951	2.4	100	0.000
32	T	2-Butanone	-1.000	2.146	0.0	0	0.000
33	T	Benzene	2.000	2.016	-0.8	100	0.000
34	S	1,2-Dichloroethane-d4	-1.000	0.069	0.0	0	0.075
35	T	1,2-Dichloroethane	2.000	2.073	-3.6	100	0.000
36	T	Methylcyclohexane	2.000	1.961	1.9	100	0.000
37	T	Trichloroethene	2.000	2.194	-9.7	100	0.000
38	T	Dibromomethane	2.000	2.059	-3.0	100	0.000
39	C	1,2-Dichloropropane	2.000	1.980	1.0#	100	0.000
40	T	Bromodichloromethane	2.000	1.958	2.1	100	0.000
41	T	1,4-Dioxane	-1.000	0.000	0.0	0	-6.010#
42	T	2-Chloroethyl Vinyl Ether	2.000	2.227	-11.3	100	0.000
43	T	cis-1,3-Dichloropropene	2.000	1.878	6.1	100	0.000
44	T	4-Methyl-2-Pentanone	-1.000	1.938	0.0	0	0.000
45	T	trans-1,3-Dichloropropene	2.000	1.739	13.0	100	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	-1.000	0.048	0.0	0	0.000
48	C	Toluene	2.000	1.982	0.9#	100	0.000
49	T	Tetrachloroethene	2.000	1.994	0.3	100	0.000
50	T	1,1,2-Trichloroethane	2.000	2.034	-1.7	100	0.000
51	T	Dibromochloromethane	2.000	2.317	-15.9	100	0.000
52	T	1,3-Dichloropropane	2.000	2.026	-1.3	100	0.000
53	T	1,2-Dibromoethane	2.000	2.065	-3.2	100	0.000
54	T	2-Hexanone	2.000	2.120	-6.0	100	0.000
55	P	Chlorobenzene	2.000	2.013	-0.6	100	0.000
56	T	1-Chlorohexane	2.000	1.840	8.0	100	0.000
57	C	Ethylbenzene	2.000	2.001	-0.0#	100	0.000

Data File : D:\MassHunter\GCMS\1\data\052016\17M021261.D Vial: 7
Acq On : 20 May 2016 17:51 Operator: ADC
Sample : WG569734-06 2.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 11:00:19 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:58:41 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
58	T	1,1,1,2-Tetrachloroethane	2.000	1.897	5.1	100	0.000
59	T	m-,p-Xylene	4.000	3.984	0.4	100	0.000
60	T	o-Xylene	2.000	1.995	0.2	100	0.000
61	T	Styrene	2.000	1.940	3.0	100	0.000
62	P	Bromoform	2.000	1.750	12.5	100	0.000
63	T	Isopropylbenzene	2.000	1.974	1.3	100	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
65	T	1,3,5-Trimethylbenzene	2.000	1.974	1.3	100	0.000
66	S	p-Bromofluorobenzene	-1.000	0.137	0.0	0	0.000
67	T	Bromobenzene	2.000	1.999	0.0	100	0.000
68	T	n-Propylbenzene	2.000	1.985	0.7	100	0.000
69	P	1,1,2,2-Tetrachloroethane	2.000	1.993	0.3	100	0.000
70	T	2-Chlorotoluene	2.000	1.997	0.1	100	0.000
71	T	1,2,3-Trichloropropane	2.000	2.102	-5.1	100	0.000
72	T	trans-1,4-Dichloro-2-Butene	2.000	1.979	1.0	95	0.000
73	T	1,2,4-Trimethylbenzene	2.000	1.978	1.1	100	0.000
74	T	4-Chlorotoluene	2.000	1.998	0.1	100	0.000
75	T	tert-Butylbenzene	2.000	2.033	-1.6	100	0.000
76	T	sec-Butylbenzene	2.000	2.016	-0.8	100	0.000
77	T	p-Isopropyltoluene	2.000	1.970	1.5	100	0.000
78	T	1,3-Dichlorobenzene	2.000	2.059	-3.0	100	0.000
79	T	1,4-Dichlorobenzene	2.000	1.954	2.3	100	0.000
80	T	n-Butylbenzene	2.000	1.951	2.4	100	0.000
81	T	1,2-Dichlorobenzene	2.000	2.017	-0.8	100	0.000
82	T	1,2-Dibromo-3-Chloropropane	2.000	1.887	5.6	100	0.000
83	T	Hexachlorobutadiene	2.000	1.849	7.6	100	0.000
84	T	1,2,4-Trichlorobenzene	2.000	1.951	2.4	100	0.000
85	T	Naphthalene	2.000	1.975	1.2	100	0.000
86	T	1,2,3-Trichlorobenzene	2.000	2.049	-2.4	100	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021262.D Vial: 8
Acq On : 20 May 2016 18:10 Operator: ADC
Sample : WG569734-07 5.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:12 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	377635	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	284220	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	155633	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.980	111	19275	4.8192	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 19.277%#			
34) 1,2-Dichloroethane-d4	4.643	65	19078	5.1587	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 20.635%#			
47) Toluene-d8	6.577	98	77602	5.1126	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 20.450%#			
66) p-Bromofluorobenzene	8.633	95	27026	5.0225	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 20.090%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.995	85	24566	4.4721	ug/L	100
3) Chloromethane	1.102	50	23385	4.7588	ug/L	99
4) Vinyl Chloride	1.146	62	23147	4.7064	ug/L	100
5) 1,3-Butadiene	1.154	54	18492	4.6642	ug/L	100
6) Bromomethane	1.322	94	15197	4.8821	ug/L	98
7) Chloroethane	1.395	64	12217	5.5402	ug/L	96
8) Trichlorofluoromethane	1.476	101	32934	5.0619	ug/L	100
9) Diethyl ether	1.664	59	11806	4.6796	ug/L	98
10) 1,1-Dichloroethene	1.783	61	29566	4.8033	ug/L	100
11) Carbon Disulfide	1.800	76	53786	4.6103	ug/L	99
12) 1,1,2-Trichloro-1,2,2-...	1.812	101	18741	4.9512	ug/L	99
13) Iodomethane	1.875	142	17474	4.0630	ug/L	99
14) Acrolein	2.014	56	2183	4.8829	ug/L	95
15) Methylene Chloride	2.185	84	19478	4.7290	ug/L	98
16) Acetone	2.228	43	2992	5.0093	ug/L	99
17) trans-1,2-Dichloroethene	2.307	96	18855	4.6977	ug/L	100
18) Methyl acetate	2.330	43	8991	4.6584	ug/L #	98
19) Methyl Tert Butyl Ether	2.408	73	40649	4.6798	ug/L	99
20) 1,1-Dichloroethane	2.831	63	35944	4.7793	ug/L	98
21) Acrylonitrile	2.892	53	3867	4.7121	ug/L	97
22) Vinyl Acetate	3.120	86	124	5.5516	ug/L #	1
23) cis-1,2-Dichloroethene	3.395	96	21365	4.7739	ug/L	99
24) 2,2-Dichloropropane	3.514	77	28084	4.7132	ug/L	97
25) Cyclohexane	3.610	56	30315	4.7563	ug/L	98
26) Bromochloromethane	3.618	130	13236	4.8619	ug/L	98
27) Chloroform	3.746	83	36120	4.8349	ug/L	100
28) Carbon Tetrachloride	3.885	117	27847	4.9253	ug/L	100
30) 1,1,1-Trichloroethane	3.983	97	32252	4.8351	ug/L	99
31) 1,1-Dichloropropene	4.157	75	26209	4.8061	ug/L	99
32) 2-Butanone	4.177	43	4390	4.6440	ug/L #	92
33) Benzene	4.472	78	79918	4.8336	ug/L	100
35) 1,2-Dichloroethane	4.721	62	22749	4.8589	ug/L	99
36) Methylcyclohexane	5.141	83	31397	4.7712	ug/L	99
37) Trichloroethene	5.167	130	27889	4.9894	ug/L	97
38) Dibromomethane	5.596	93	10880	4.8337	ug/L	99
39) 1,2-Dichloropropane	5.703	63	21052	4.8327	ug/L	99
40) Bromodichloromethane	5.796	83	25158	4.7573	ug/L	99
42) 2-Chloroethyl Vinyl Ether	6.395	63	5741	4.2181	ug/L	96
43) cis-1,3-Dichloropropene	6.409	75	26487	4.5678	ug/L	99
44) 4-Methyl-2-Pentanone	7.000	58	3710	4.4403	ug/L	93
45) trans-1,3-Dichloropropene	7.014	75	20297	4.3134	ug/L	99
48) Toluene	6.624	91	88087	4.8741	ug/L	99
49) Tetrachloroethene	6.957	166	24930	4.7434	ug/L	99
50) 1,1,2-Trichloroethane	7.148	97	14547	4.8651	ug/L	98
51) Dibromochloromethane	7.287	129	17014	4.3128	ug/L	99
52) 1,3-Dichloropropane	7.373	76	23027	4.7885	ug/L	98

Data File : D:\MassHunter\GCMS\1\data\052016\17M021262.D Vial: 8
Acq On : 20 May 2016 18:10 Operator: ADC
Sample : WG569734-07 5.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:12 2016

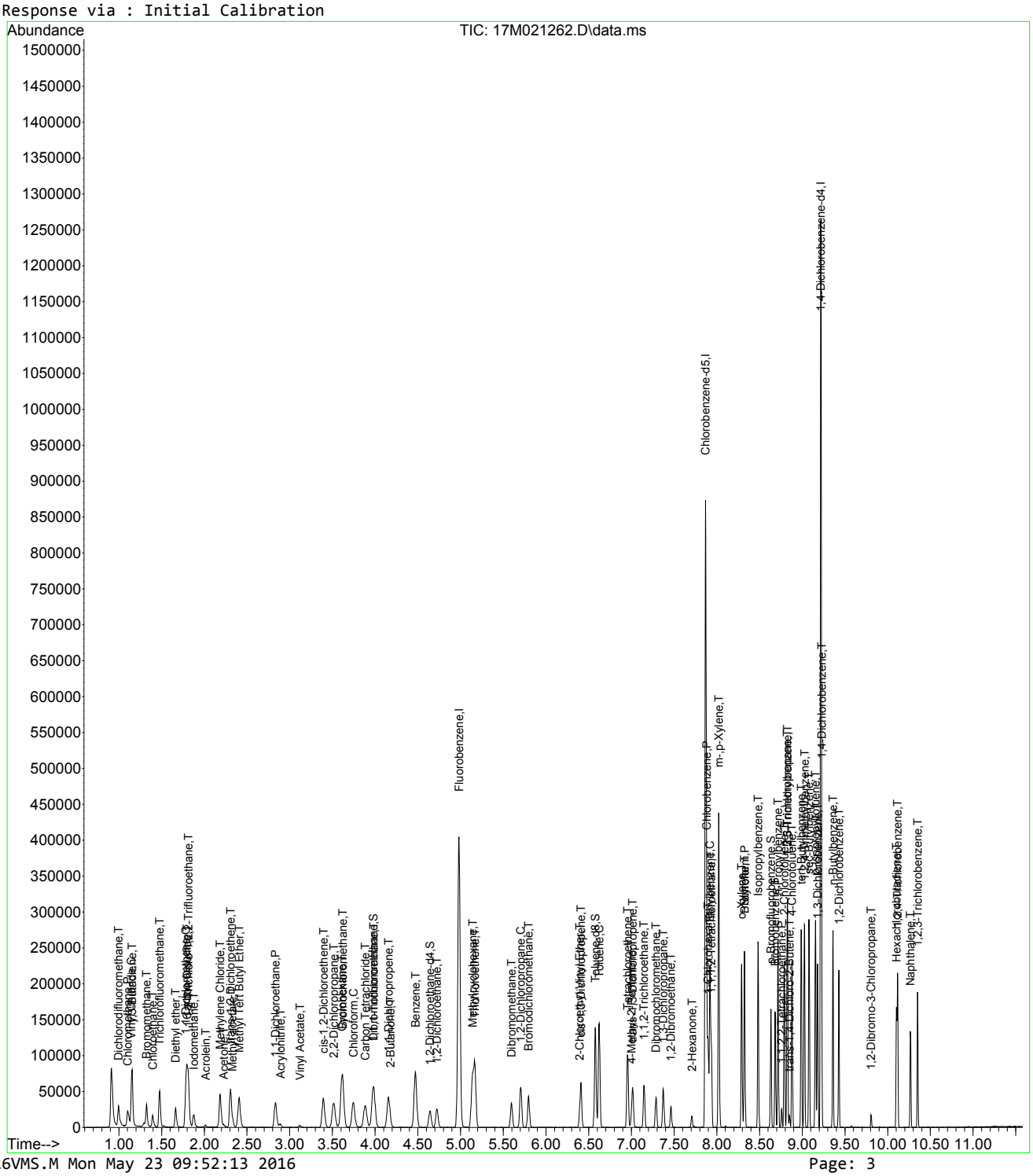
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
53) 1,2-Dibromoethane	7.460	107	14396	4.8125	ug/L		99
54) 2-Hexanone	7.709	43	6594	4.4170	ug/L		97
55) Chlorobenzene	7.880	112	56775	4.7809	ug/L		94
56) 1-Chlorohexane	7.898	69	4680	4.7602	ug/L		84
57) Ethylbenzene	7.918	106	30302	4.8515	ug/L		97
58) 1,1,1,2-Tetrachloroethane	7.935	131	19704	4.7532	ug/L		98
59) m-,p-Xylene	8.022	106	73272	9.9076	ug/L		99
60) o-Xylene	8.291	106	34712	4.7825	ug/L		99
61) Styrene	8.323	104	56072	4.8440	ug/L		99
62) Bromoform	8.326	173	10135	4.1192	ug/L		99
63) Isopropylbenzene	8.482	105	92455	4.9171	ug/L		100
65) 1,3,5-Trimethylbenzene	8.827	105	78898	4.9662	ug/L		98
67) Bromobenzene	8.682	156	25709	4.7325	ug/L		100
68) n-Propylbenzene	8.717	91	105892	4.9982	ug/L		99
69) 1,1,2,2-Tetrachloroethane	8.760	83	6376	3.8013	ug/L		98
70) 2-Chlorotoluene	8.789	91	64625	4.9451	ug/L		99
71) 1,2,3-Trichloropropane	8.824	110	4144	4.6793	ug/L		100
72) trans-1,4-Dichloro-2-B...	8.853	53	1670	4.4183	ug/L	#	84
73) 1,2,4-Trimethylbenzene	9.027	105	78620	4.9452	ug/L		99
74) 4-Chlorotoluene	8.879	91	67084	4.9515	ug/L		99
75) tert-Butylbenzene	8.989	134	14788	4.9462	ug/L		96
76) sec-Butylbenzene	9.079	105	98631	4.9940	ug/L		100
77) p-Isopropyltoluene	9.154	119	80395	4.8924	ug/L		100
78) 1,3-Dichlorobenzene	9.180	146	48184	4.8780	ug/L		100
79) 1,4-Dichlorobenzene	9.227	146	47433	4.6534	ug/L		98
80) n-Butylbenzene	9.360	91	74992	4.8962	ug/L		99
81) 1,2-Dichlorobenzene	9.429	146	44121	4.7649	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.806	75	1969	4.1429	ug/L		97
83) Hexachlorobutadiene	10.104	225	16192	4.4999	ug/L		99
84) 1,2,4-Trichlorobenzene	10.115	180	32786	4.7805	ug/L		99
85) Naphthalene	10.266	128	49397	4.7196	ug/L		100
86) 1,2,3-Trichlorobenzene	10.350	180	29451	4.8972	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021262.D Vial: 8
Acq On : 20 May 2016 18:10 Operator: ADC
Sample : WG569734-07 5.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:12 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



826VMS.M Mon May 23 09:52:13 2016 Page: 3

Data File : D:\MassHunter\GCMS\1\data\052016\17M021262.D Vial: 8
Acq On : 20 May 2016 18:10 Operator: ADC
Sample : WG569734-07 5.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 11:00:43 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:58:41 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	100	0.000
2	T	Dichlorodifluoromethane	5.000	4.472	10.6	100	0.000
3	P	Chloromethane	5.000	4.759	4.8	98	0.000
4	C	Vinyl Chloride	5.000	4.706	5.9#	100	0.000
5	T	1,3-Butadiene	5.000	4.664	6.7	100	0.000
6	T	Bromomethane	5.000	4.882	2.4	100	0.000
7	T	Chloroethane	5.000	5.540	-10.8	100	0.000
8	T	Trichlorofluoromethane	5.000	5.062	-1.2	100	0.000
9	T	Diethyl ether	5.000	4.680	6.4	100	0.000
10	C	1,1-Dichloroethene	5.000	4.803	3.9#	100	0.000
11	T	Carbon Disulfide	5.000	4.610	7.8	100	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	5.000	4.951	1.0	100	0.000
13	T	Iodomethane	5.000	4.063	18.7	100	0.000
14	T	Acrolein	5.000	4.883	2.3	100	0.000
15	T	Methylene Chloride	5.000	4.729	5.4	100	0.000
16	T	Acetone	5.000	5.009	-0.2	100	0.000
17	T	trans-1,2-Dichloroethene	5.000	4.698	6.0	100	0.000
18	T	Methyl acetate	5.000	4.658	6.8	100	0.000
19	T	Methyl Tert Butyl Ether	5.000	4.680	6.4	100	0.000
20	P	1,1-Dichloroethane	5.000	4.779	4.4	100	0.000
21	T	Acrylonitrile	5.000	4.712	5.8	100	0.000
22	T	Vinyl Acetate	5.000	5.552	-11.0	100	0.000
23	T	cis-1,2-Dichloroethene	5.000	4.774	4.5	100	0.000
24	T	2,2-Dichloropropane	5.000	4.713	5.7	100	0.000
25	T	Cyclohexane	5.000	4.756	4.9	100	0.000
26	T	Bromochloromethane	5.000	4.862	2.8	100	0.000
27	C	Chloroform	5.000	4.835	3.3#	100	0.000
28	T	Carbon Tetrachloride	5.000	4.925	1.5	100	0.000
29	S	Dibromofluoromethane	5.000	4.819	3.6	100	0.000
30	T	1,1,1-Trichloroethane	5.000	4.835	3.3	100	0.000
31	T	1,1-Dichloropropene	5.000	4.806	3.9	100	0.000
32	T	2-Butanone	5.000	4.644	7.1	100	0.000
33	T	Benzene	5.000	4.834	3.3	100	0.000
34	S	1,2-Dichloroethane-d4	5.000	5.159	-3.2	100	0.000
35	T	1,2-Dichloroethane	5.000	4.859	2.8	100	0.000
36	T	Methylcyclohexane	5.000	4.771	4.6	100	0.000
37	T	Trichloroethene	5.000	4.989	0.2	100	0.000
38	T	Dibromomethane	5.000	4.834	3.3	100	0.000
39	C	1,2-Dichloropropane	5.000	4.833	3.3#	100	0.000
40	T	Bromodichloromethane	5.000	4.757	4.9	100	0.000
41	T	1,4-Dioxane	-1.000	0.000	0.0	0	-6.010#
42	T	2-Chloroethyl Vinyl Ether	5.000	4.218	15.6	100	0.000
43	T	cis-1,3-Dichloropropene	5.000	4.568	8.6	100	0.000
44	T	4-Methyl-2-Pentanone	5.000	4.440	11.2	100	0.000
45	T	trans-1,3-Dichloropropene	5.000	4.313	13.7	100	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	100	0.000
47	S	Toluene-d8	5.000	5.113	-2.3	100	0.000
48	C	Toluene	5.000	4.874	2.5#	100	0.000
49	T	Tetrachloroethene	5.000	4.743	5.1	100	0.000
50	T	1,1,2-Trichloroethane	5.000	4.865	2.7	100	0.000
51	T	Dibromochloromethane	5.000	4.659	6.8	100	0.000
52	T	1,3-Dichloropropane	5.000	4.788	4.2	100	0.000
53	T	1,2-Dibromoethane	5.000	4.812	3.8	100	0.000
54	T	2-Hexanone	5.000	4.417	11.7	100	0.000
55	P	Chlorobenzene	5.000	4.781	4.4	100	0.000
56	T	1-Chlorohexane	5.000	4.760	4.8	100	0.000
57	C	Ethylbenzene	5.000	4.852	3.0#	100	0.000

Data File : D:\MassHunter\GCMS\1\data\052016\17M021262.D Vial: 8
Acq On : 20 May 2016 18:10 Operator: ADC
Sample : WG569734-07 5.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 11:00:43 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:58:41 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
58	T	1,1,1,2-Tetrachloroethane	5.000	4.753	4.9	100	0.000
59	T	m-,p-Xylene	10.000	9.908	0.9	100	0.000
60	T	o-Xylene	5.000	4.782	4.4	100	0.000
61	T	Styrene	5.000	4.844	3.1	100	0.000
62	P	Bromoform	5.000	4.119	17.6	100	0.000
63	T	Isopropylbenzene	5.000	4.917	1.7	100	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	100	0.000
65	T	1,3,5-Trimethylbenzene	5.000	4.966	0.7	100	0.000
66	S	p-Bromofluorobenzene	5.000	5.022	-0.4	100	0.000
67	T	Bromobenzene	5.000	4.732	5.4	100	0.000
68	T	n-Propylbenzene	5.000	4.998	0.0	100	0.000
69	P	1,1,2,2-Tetrachloroethane	5.000	3.801	24.0	100	0.000
70	T	2-Chlorotoluene	5.000	4.945	1.1	100	0.000
71	T	1,2,3-Trichloropropane	5.000	4.679	6.4	100	0.000
72	T	trans-1,4-Dichloro-2-Butene	5.000	4.418	11.6	103	0.000
73	T	1,2,4-Trimethylbenzene	5.000	4.945	1.1	100	0.000
74	T	4-Chlorotoluene	5.000	4.952	1.0	100	0.000
75	T	tert-Butylbenzene	5.000	4.946	1.1	100	0.000
76	T	sec-Butylbenzene	5.000	4.994	0.1	100	0.000
77	T	p-Isopropyltoluene	5.000	4.892	2.2	100	0.000
78	T	1,3-Dichlorobenzene	5.000	4.878	2.4	100	0.000
79	T	1,4-Dichlorobenzene	5.000	4.653	6.9	100	0.000
80	T	n-Butylbenzene	5.000	4.896	2.1	100	0.000
81	T	1,2-Dichlorobenzene	5.000	4.765	4.7	100	0.000
82	T	1,2-Dibromo-3-Chloropropane	5.000	4.143	17.1	100	0.000
83	T	Hexachlorobutadiene	5.000	4.500	10.0	100	0.000
84	T	1,2,4-Trichlorobenzene	5.000	4.780	4.4	100	0.000
85	T	Naphthalene	5.000	4.720	5.6	100	0.000
86	T	1,2,3-Trichlorobenzene	5.000	4.897	2.1	100	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021263.D Vial: 9
Acq On : 20 May 2016 18:30 Operator: ADC
Sample : WG569734-08 20.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:15 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.979	96	388553	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	294548	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	159037	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.980	111	38592	9.3778 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 37.511%#		
34) 1,2-Dichloroethane-d4	4.643	65	36151	9.5005 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 38.002%#		
47) Toluene-d8	6.577	98	148909	9.4665 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 37.866%#		
66) p-Bromofluorobenzene	8.633	95	53211	9.6770 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 38.708%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.995	85	114327	20.2277 ug/L	99
3) Chloromethane	1.105	50	94803	18.7502 ug/L	99
4) Vinyl Chloride	1.149	62	99460	19.6546 ug/L	100
5) 1,3-Butadiene	1.154	54	79334	19.4481 ug/L	99
6) Bromomethane	1.325	94	57284	17.8855 ug/L	99
7) Chloroethane	1.395	64	50468	22.2431 ug/L	98
8) Trichlorofluoromethane	1.476	101	137554	20.5477 ug/L	100
9) Diethyl ether	1.664	59	50520	19.4623 ug/L	98
10) 1,1-Dichloroethene	1.786	61	121553	19.1928 ug/L	100
11) Carbon Disulfide	1.800	76	227895	18.9852 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.814	101	77277	19.8421 ug/L	99
13) Iodomethane	1.878	142	103206	18.1808 ug/L	100
14) Acrolein	2.014	56	8866	19.2742 ug/L	98
15) Methylene Chloride	2.185	84	80671	19.0355 ug/L	99
16) Acetone	2.228	43	12760	20.7630 ug/L	99
17) trans-1,2-Dichloroethene	2.310	96	77914	18.8668 ug/L	100
18) Methyl acetate	2.333	43	37933	19.1016 ug/L #	99
19) Methyl Tert Butyl Ether	2.408	73	168730	18.8795 ug/L	100
20) 1,1-Dichloroethane	2.834	63	151704	19.6047 ug/L	100
21) Acrylonitrile	2.886	53	16103	19.0708 ug/L	99
22) Vinyl Acetate	3.117	86	3668	18.0585 ug/L	96
23) cis-1,2-Dichloroethene	3.395	96	89939	19.5317 ug/L	99
24) 2,2-Dichloropropane	3.517	77	117503	19.1657 ug/L	99
25) Cyclohexane	3.612	56	125758	19.1765 ug/L	99
26) Bromochloromethane	3.621	130	55588	19.8452 ug/L	100
27) Chloroform	3.746	83	149870	19.4972 ug/L	99
28) Carbon Tetrachloride	3.882	117	120656	20.7408 ug/L	99
30) 1,1,1-Trichloroethane	3.980	97	134653	19.6193 ug/L	100
31) 1,1-Dichloropropene	4.157	75	107987	19.2458 ug/L	99
32) 2-Butanone	4.183	43	19121	19.6591 ug/L	95
33) Benzene	4.472	78	332157	19.5249 ug/L	100
35) 1,2-Dichloroethane	4.724	62	94245	19.5638 ug/L	100
36) Methylcyclohexane	5.141	83	127211	18.7881 ug/L	100
37) Trichloroethene	5.167	130	111488	19.3849 ug/L	100
38) Dibromomethane	5.596	93	44816	19.3509 ug/L	99
39) 1,2-Dichloropropane	5.706	63	87510	19.5244 ug/L	99
40) Bromodichloromethane	5.796	83	109240	20.0765 ug/L	99
41) 1,4-Dioxane	6.013	88	698	31.1924 ug/L	96
42) 2-Chloroethyl Vinyl Ether	6.395	63	26276	16.6464 ug/L	99
43) cis-1,3-Dichloropropene	6.409	75	118803	19.9123 ug/L	100
44) 4-Methyl-2-Pentanone	7.000	58	16676	19.3978 ug/L	95
45) trans-1,3-Dichloropropene	7.017	75	95353	19.6943 ug/L	99
48) Toluene	6.621	91	367988	19.6478 ug/L	100
49) Tetrachloroethene	6.954	166	103929	19.0812 ug/L	100
50) 1,1,2-Trichloroethane	7.148	97	60462	19.5120 ug/L	99
51) Dibromochloromethane	7.290	129	80048	18.7092 ug/L	99

Data File : D:\MassHunter\GCMS\1\data\052016\17M021263.D Vial: 9
Acq On : 20 May 2016 18:30 Operator: ADC
Sample : WG569734-08 20.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:15 2016

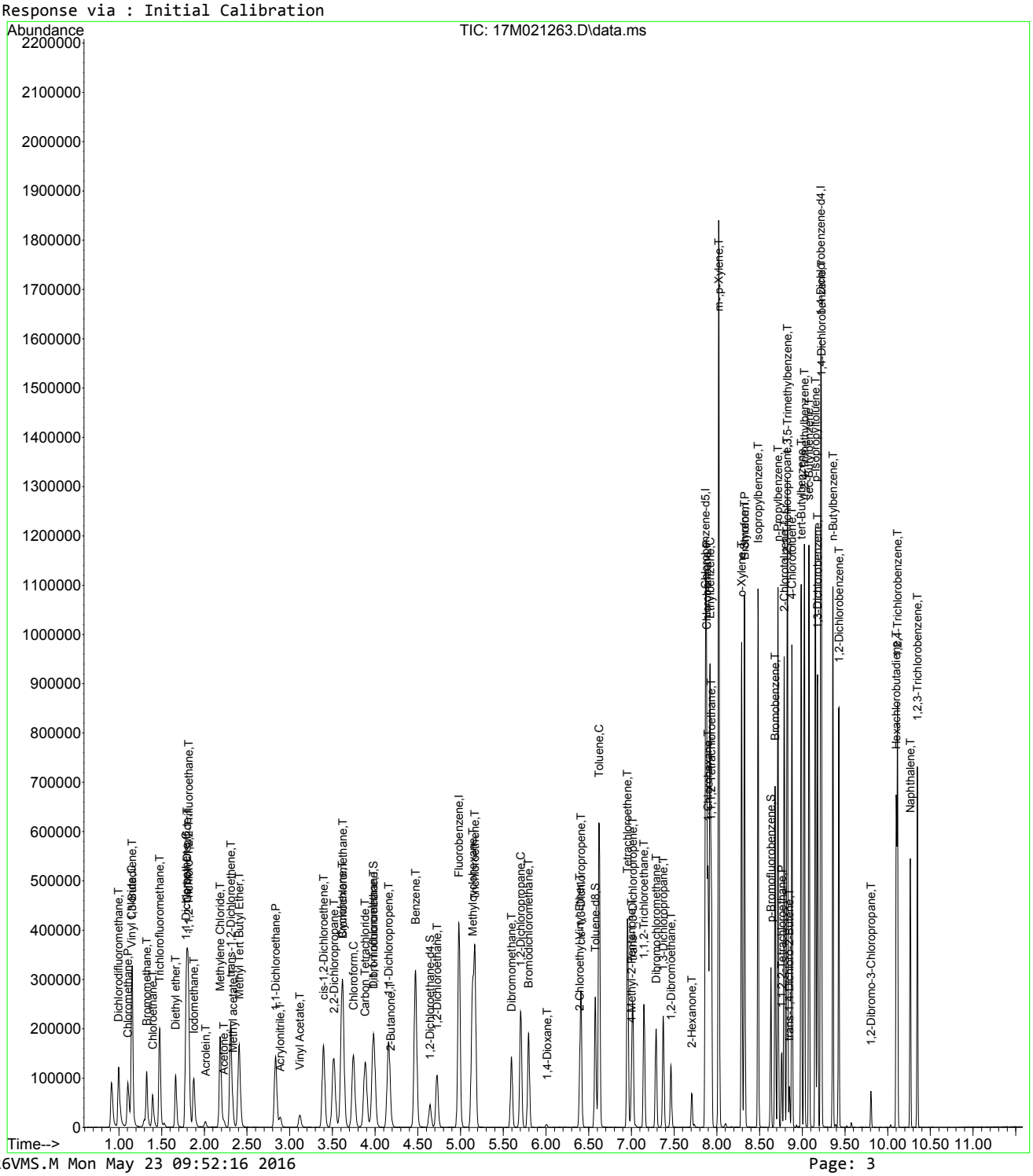
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,3-Dichloropropane	7.374	76	98161	19.6969	ug/L		99
53) 1,2-Dibromoethane	7.463	107	61299	19.7732	ug/L		100
54) 2-Hexanone	7.706	43	29166	18.8520	ug/L		98
55) Chlorobenzene	7.880	112	238190	19.3542	ug/L		100
56) 1-Chlorohexane	7.898	69	20125	19.7520	ug/L		92
57) Ethylbenzene	7.921	106	126655	19.5671	ug/L		98
58) 1,1,1,2-Tetrachloroethane	7.935	131	87088	20.2717	ug/L		100
59) m-,p-Xylene	8.022	106	304116	39.6796	ug/L		99
60) o-Xylene	8.291	106	147633	19.6271	ug/L		99
61) Styrene	8.323	104	242299	20.1980	ug/L		100
62) Bromoform	8.326	173	49204	17.9864	ug/L		99
63) Isopropylbenzene	8.482	105	387557	19.8890	ug/L		100
65) 1,3,5-Trimethylbenzene	8.827	105	329098	20.2716	ug/L		99
67) Bromobenzene	8.682	156	107012	19.2770	ug/L		99
68) n-Propylbenzene	8.717	91	439321	20.2925	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.760	83	38882	17.4585	ug/L		99
70) 2-Chlorotoluene	8.789	91	265393	19.8734	ug/L		100
71) 1,2,3-Trichloropropane	8.821	110	18006	19.8966	ug/L		98
72) trans-1,4-Dichloro-2-B...	8.850	53	7691	17.5350	ug/L	#	92
73) 1,2,4-Trimethylbenzene	9.024	105	329297	20.2694	ug/L		99
74) 4-Chlorotoluene	8.879	91	272790	19.7040	ug/L		100
75) tert-Butylbenzene	8.989	134	61237	20.0437	ug/L		98
76) sec-Butylbenzene	9.079	105	404857	20.0604	ug/L		100
77) p-Isopropyltoluene	9.154	119	334758	19.9354	ug/L		99
78) 1,3-Dichlorobenzene	9.180	146	196586	19.4757	ug/L		100
79) 1,4-Dichlorobenzene	9.224	146	191451	18.3802	ug/L		99
80) n-Butylbenzene	9.360	91	305997	19.5508	ug/L		99
81) 1,2-Dichlorobenzene	9.429	146	178886	18.9054	ug/L		99
82) 1,2-Dibromo-3-Chloropr...	9.806	75	8679	17.8702	ug/L		100
83) Hexachlorobutadiene	10.101	225	67098	18.2481	ug/L		99
84) 1,2,4-Trichlorobenzene	10.115	180	130136	18.5689	ug/L		100
85) Naphthalene	10.266	128	206469	19.3048	ug/L		100
86) 1,2,3-Trichlorobenzene	10.347	180	117154	19.0638	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021263.D Vial: 9
Acq On : 20 May 2016 18:30 Operator: ADC
Sample : WG569734-08 20.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:15 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



826VMS.M Mon May 23 09:52:16 2016 Page: 3

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021264.D Vial: 10
Acq On : 20 May 2016 18:50 Operator: ADC
Sample : WG569734-09 100.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:18 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	353725	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.871	117	273199	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.221	152	156374	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.983	111	199383	53.2201	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 212.880%#			
34) 1,2-Dichloroethane-d4	4.643	65	181789	52.4784	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 209.914%#			
47) Toluene-d8	6.577	98	741809	50.8440	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 203.376%#			
66) p-Bromofluorobenzene	8.633	95	272836	50.4630	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 201.852%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.998	85	552281	107.3351	ug/L	100
3) Chloromethane	1.105	50	451118	98.0071	ug/L	99
4) Vinyl Chloride	1.146	62	477499	103.6510	ug/L	100
5) 1,3-Butadiene	1.157	54	379960	102.3150	ug/L	100
6) Bromomethane	1.322	94	268351	92.0357	ug/L	99
7) Chloroethane	1.389	64	174393	84.4293	ug/L	98
8) Trichlorofluoromethane	1.467	101	633389	103.9308	ug/L	100
9) Diethyl ether	1.670	59	248761	105.2685	ug/L	100
10) 1,1-Dichloroethene	1.783	61	563778	97.7834	ug/L	100
11) Carbon Disulfide	1.797	76	1088525	99.6099	ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.812	101	357084	100.7144	ug/L	99
13) Iodomethane	1.875	142	560250	103.0277	ug/L	100
14) Acrolein	2.014	56	46120	110.1343	ug/L	99
15) Methylene Chloride	2.185	84	373123	96.7128	ug/L	100
16) Acetone	2.237	43	60389	107.9399	ug/L	96
17) trans-1,2-Dichloroethene	2.307	96	384338	102.2307	ug/L	98
18) Methyl acetate	2.336	43	205062	113.4286	ug/L #	89
19) Methyl Tert Butyl Ether	2.411	73	877711	107.8786	ug/L	100
20) 1,1-Dichloroethane	2.836	63	708088	100.5159	ug/L	100
21) Acrylonitrile	2.891	53	84011	109.2906	ug/L	99
22) Vinyl Acetate	3.120	86	31281	110.3938	ug/L	96
23) cis-1,2-Dichloroethene	3.395	96	430021	102.5809	ug/L	99
24) 2,2-Dichloropropane	3.517	77	569459	102.0290	ug/L	99
25) Cyclohexane	3.610	56	611655	102.4529	ug/L	99
26) Bromochloromethane	3.627	130	264262	103.6320	ug/L	100
27) Chloroform	3.746	83	705420	100.8070	ug/L	100
28) Carbon Tetrachloride	3.885	117	582968	110.0795	ug/L	100
30) 1,1,1-Trichloroethane	3.983	97	634861	101.6088	ug/L	100
31) 1,1-Dichloropropene	4.157	75	517829	101.3758	ug/L	100
32) 2-Butanone	4.180	43	98740	111.5144	ug/L	95
33) Benzene	4.472	78	1553267	100.2944	ug/L	100
35) 1,2-Dichloroethane	4.724	62	455357	103.8321	ug/L	100
36) Methylcyclohexane	5.141	83	621275	100.7921	ug/L	100
37) Trichloroethene	5.170	130	483367	92.3203	ug/L	100
38) Dibromomethane	5.596	93	222917	105.7296	ug/L	99
39) 1,2-Dichloropropane	5.706	63	416400	102.0506	ug/L	100
40) Bromodichloromethane	5.796	83	536089	108.2249	ug/L	100
41) 1,4-Dioxane	6.013	88	4643	227.9170	ug/L	94
42) 2-Chloroethyl Vinyl Ether	6.398	63	154614	104.2413	ug/L	100
43) cis-1,3-Dichloropropene	6.412	75	609276	112.1741	ug/L	100
44) 4-Methyl-2-Pentanone	7.003	58	87940	112.3651	ug/L	98
45) trans-1,3-Dichloropropene	7.017	75	511194	115.9780	ug/L	99
48) Toluene	6.624	91	1720742	99.0541	ug/L	99
49) Tetrachloroethene	6.957	166	493664	97.7184	ug/L	100
50) 1,1,2-Trichloroethane	7.151	97	301567	104.9250	ug/L	99
51) Dibromochloromethane	7.290	129	423458	103.9425	ug/L	100

Data File : D:\MassHunter\GCMS\1\data\052016\17M021264.D Vial: 10
Acq On : 20 May 2016 18:50 Operator: ADC
Sample : WG569734-09 100.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:18 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

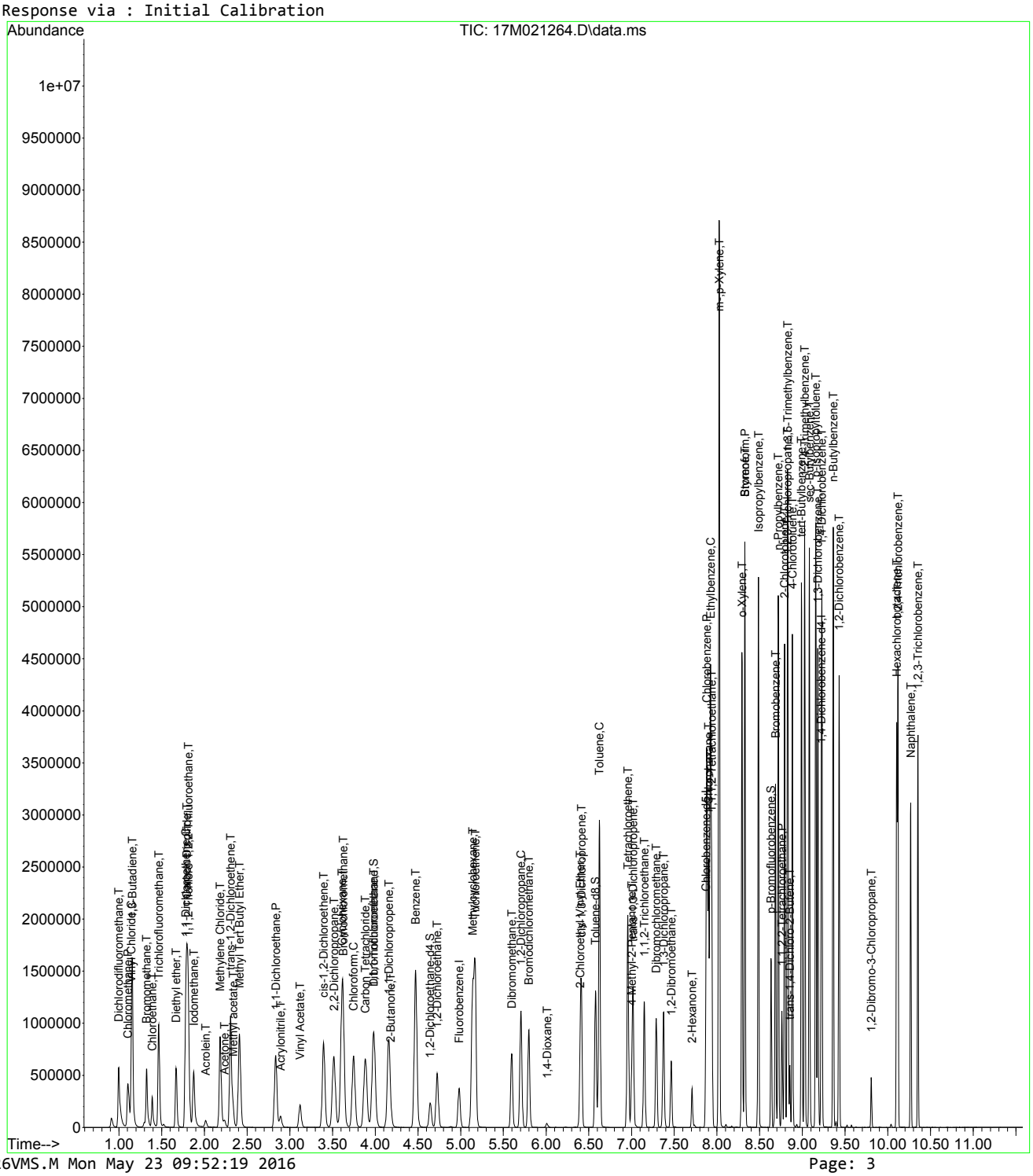
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichloropropane	7.376	76	480211	103.8887 ug/L	100
53) 1,2-Dibromoethane	7.463	107	307301	106.8723 ug/L	100
54) 2-Hexanone	7.709	43	159692	111.2858 ug/L	100
55) Chlorobenzene	7.880	112	1133589	99.3081 ug/L	99
56) 1-Chlorohexane	7.900	69	98257	103.9719 ug/L	99
57) Ethylbenzene	7.924	106	600601	100.0384 ug/L	98
58) 1,1,1,2-Tetrachloroethane	7.938	131	425774	106.8534 ug/L	100
59) m-,p-Xylene	8.025	106	1449526	203.9064 ug/L	98
60) o-Xylene	8.294	106	705774	101.1617 ug/L	98
61) Styrene	8.326	104	1179820	106.0351 ug/L	99
62) Bromoform	8.326	173	279456	106.3174 ug/L	100
63) Isopropylbenzene	8.485	105	1844946	102.0793 ug/L	99
65) 1,3,5-Trimethylbenzene	8.830	105	1578001	98.8560 ug/L	99
67) Bromobenzene	8.685	156	525891	96.3464 ug/L	100
68) n-Propylbenzene	8.717	91	2100705	98.6853 ug/L	99
69) 1,1,2,2-Tetrachloroethane	8.760	83	286693	110.1693 ug/L	100
70) 2-Chlorotoluene	8.792	91	1266618	96.4631 ug/L	100
71) 1,2,3-Trichloropropane	8.824	110	92506	103.9595 ug/L	98
72) trans-1,4-Dichloro-2-B...	8.853	53	52038	105.8929 ug/L #	99
73) 1,2,4-Trimethylbenzene	9.027	105	1595630	99.8895 ug/L	100
74) 4-Chlorotoluene	8.882	91	1311620	96.3534 ug/L	100
75) tert-Butylbenzene	8.989	134	296369	98.6575 ug/L	99
76) sec-Butylbenzene	9.082	105	1957417	98.6406 ug/L	100
77) p-Isopropyltoluene	9.157	119	1676934	101.5647 ug/L	100
78) 1,3-Dichlorobenzene	9.180	146	960824	96.8095 ug/L	99
79) 1,4-Dichlorobenzene	9.226	146	944515	92.2220 ug/L	100
80) n-Butylbenzene	9.360	91	1548248	100.6055 ug/L	100
81) 1,2-Dichlorobenzene	9.429	146	892609	95.9409 ug/L	100
82) 1,2-Dibromo-3-Chloropr...	9.806	75	55442	116.1002 ug/L	100
83) Hexachlorobutadiene	10.104	225	374214	103.5049 ug/L	99
84) 1,2,4-Trichlorobenzene	10.118	180	687756	99.8059 ug/L	100
85) Naphthalene	10.269	128	1154579	109.7911 ug/L	100
86) 1,2,3-Trichlorobenzene	10.353	180	597896	98.9490 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021264.D Vial: 10
Acq On : 20 May 2016 18:50 Operator: ADC
Sample : WG569734-09 100.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:18 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



826VMS.M Mon May 23 09:52:19 2016 Page: 3

Data File : D:\MassHunter\GCMS\1\data\052016\17M021265.D Vial: 11
Acq On : 20 May 2016 19:09 Operator: ADC
Sample : WG569734-10 200.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:21 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.985	96	350345	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.871	117	270132	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.221	152	152262	25.00000 ug/L	# 0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.986	111	375506	101.1985 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 404.794%#		
34) 1,2-Dichloroethane-d4	4.646	65	331273	96.5537 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 386.215%#		
47) Toluene-d8	6.580	98	1405990	97.4615 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 389.846%#		
66) p-Bromofluorobenzene	8.636	95	518599	98.5090 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 394.036%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.998	85	1096671	215.1928 ug/L	100
3) Chloromethane	1.105	50	952446	208.9188 ug/L	99
4) Vinyl Chloride	1.148	62	964126	211.3026 ug/L	100
5) 1,3-Butadiene	1.157	54	760169	206.6719 ug/L	99
6) Bromomethane	1.325	94	555700	192.4258 ug/L	100
7) Chloroethane	1.389	64	345062	168.6673 ug/L	100
8) Trichlorofluoromethane	1.461	101	935968	155.0617 ug/L	100
9) Diethyl ether	1.673	59	473150	202.1551 ug/L	100
10) 1,1-Dichloroethene	1.780	61	1137005	199.1081 ug/L	99
11) Carbon Disulfide	1.794	76	2184939	201.8706 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.809	101	713885	203.2915 ug/L	100
13) Iodomethane	1.872	142	1078434	199.2095 ug/L	100
14) Acrolein	2.020	56	82829	199.7034 ug/L	99
15) Methylene Chloride	2.185	84	730270	191.1108 ug/L	100
16) Acetone	2.243	43	107468	193.9426 ug/L	95
17) trans-1,2-Dichloroethene	2.307	96	777339	208.7605 ug/L	98
18) Methyl acetate	2.338	43	377469	210.8086 ug/L #	90
19) Methyl Tert Butyl Ether	2.414	73	1647647	204.4644 ug/L	100
20) 1,1-Dichloroethane	2.836	63	1419493	203.4467 ug/L	100
21) Acrylonitrile	2.897	53	154858	203.3997 ug/L	100
22) Vinyl Acetate	3.120	86	62097	193.5505 ug/L	96
23) cis-1,2-Dichloroethene	3.398	96	857894	206.6238 ug/L	100
24) 2,2-Dichloropropane	3.520	77	1142197	206.6199 ug/L	98
25) Cyclohexane	3.612	56	1237515	209.2850 ug/L	99
26) Bromochloromethane	3.627	130	505449	200.1272 ug/L	100
27) Chloroform	3.748	83	1397156	201.5848 ug/L	100
28) Carbon Tetrachloride	3.887	117	1184151	225.7557 ug/L	100
30) 1,1,1-Trichloroethane	3.983	97	1273046	205.7153 ug/L	99
31) 1,1-Dichloropropene	4.160	75	1042806	206.1206 ug/L	99
32) 2-Butanone	4.189	43	178698	203.7639 ug/L	98
33) Benzene	4.475	78	3098887	202.0254 ug/L	100
35) 1,2-Dichloroethane	4.727	62	871556	200.6526 ug/L	100
36) Methylcyclohexane	5.144	83	1257818	206.0300 ug/L	99
37) Trichloroethene	5.170	130	945498	182.3268 ug/L	100
38) Dibromomethane	5.599	93	428294	205.0999 ug/L	100
39) 1,2-Dichloropropane	5.709	63	827765	204.8244 ug/L	100
40) Bromodichloromethane	5.798	83	1055565	215.1518 ug/L	100
41) 1,4-Dioxane	6.024	88	8742	433.2700 ug/L	99
42) 2-Chloroethyl Vinyl Ether	6.401	63	294202	199.7002 ug/L	99
43) cis-1,3-Dichloropropene	6.415	75	1202475	223.5242 ug/L	100
44) 4-Methyl-2-Pentanone	7.009	58	160922	207.6014 ug/L	97
45) trans-1,3-Dichloropropene	7.020	75	992900	227.4391 ug/L	99
48) Toluene	6.626	91	3401115	198.0073 ug/L	98
49) Tetrachloroethene	6.959	166	992114	198.6138 ug/L	99
50) 1,1,2-Trichloroethane	7.151	97	570426	200.7233 ug/L	100
51) Dibromochloromethane	7.292	129	817468	199.1801 ug/L	99

Data File : D:\MassHunter\GCMS\1\data\052016\17M021265.D Vial: 11
Acq On : 20 May 2016 19:09 Operator: ADC
Sample : WG569734-10 200.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:21 2016

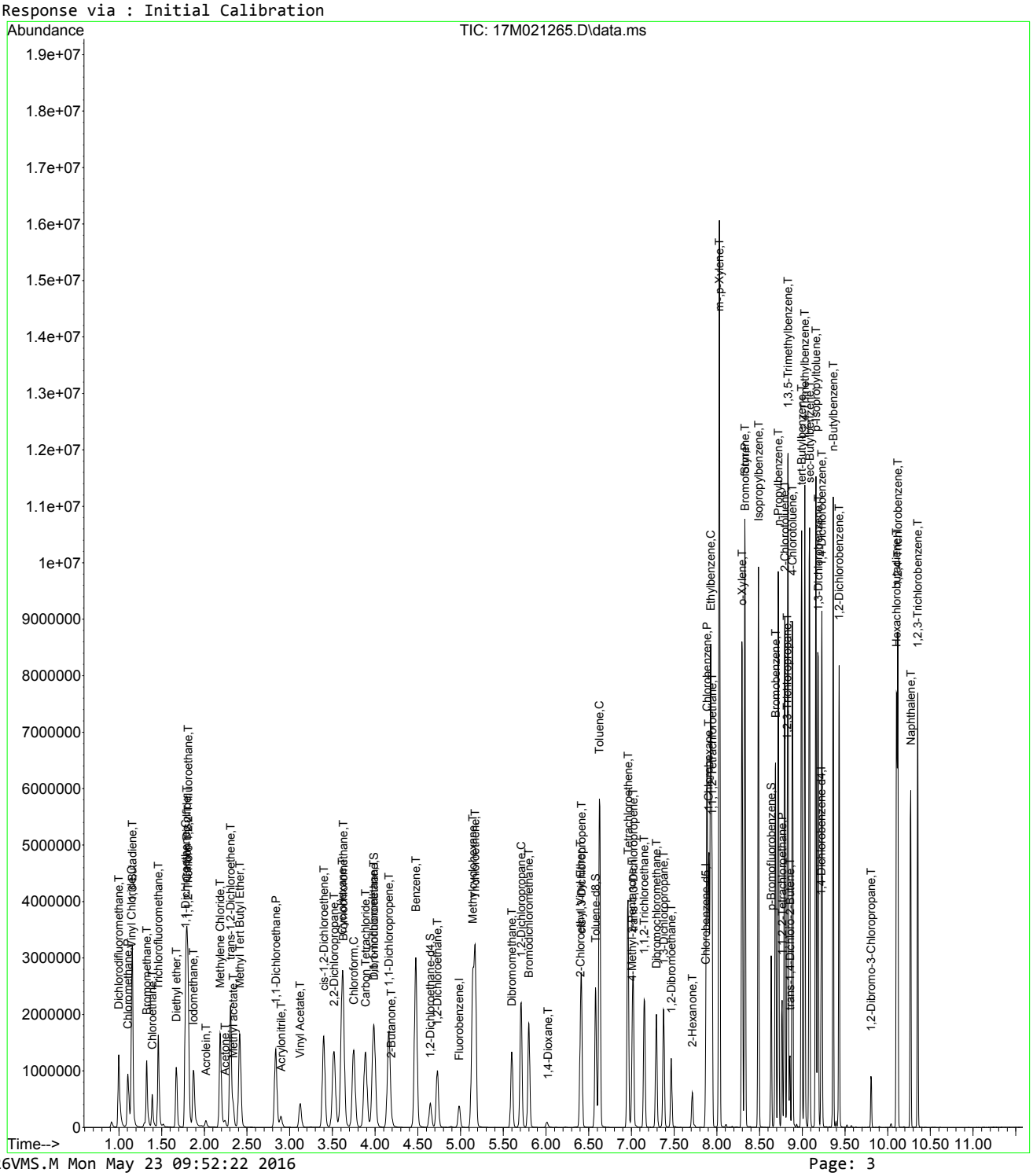
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichloropropane	7.379	76	915213	200.2449 ug/L	99
53) 1,2-Dibromoethane	7.466	107	580560	204.1980 ug/L	100
54) 2-Hexanone	7.712	43	291734	205.6112 ug/L	100
55) Chlorobenzene	7.883	112	2239179	198.3904 ug/L	100
56) 1-Chlorohexane	7.903	69	197990	211.8844 ug/L	93
57) Ethylbenzene	7.926	106	1189983	200.4586 ug/L	96
58) 1,1,1,2-Tetrachloroethane	7.944	131	841369	213.5496 ug/L	100
59) m-,p-Xylene	8.031	106	2804866	399.0433 ug/L	95
60) o-Xylene	8.297	106	1391913	201.7743 ug/L	97
61) Styrene	8.329	104	2308777	209.8549 ug/L	99
62) Bromoform	8.332	173	540373	203.3137 ug/L	100
63) Isopropylbenzene	8.488	105	3604160	201.6793 ug/L	98
65) 1,3,5-Trimethylbenzene	8.833	105	3120313	200.7552 ug/L	99
67) Bromobenzene	8.688	156	1041873	196.0322 ug/L	100
68) n-Propylbenzene	8.720	91	4082493	196.9636 ug/L	98
69) 1,1,2,2-Tetrachloroethane	8.763	83	577109	203.1639 ug/L	100
70) 2-Chlorotoluene	8.795	91	2512457	196.5111 ug/L	99
71) 1,2,3-Trichloropropane	8.824	110	172511	199.1059 ug/L	97
72) trans-1,4-Dichloro-2-B...	8.856	53	108974	204.9521 ug/L #	94
73) 1,2,4-Trimethylbenzene	9.030	105	3146943	202.3249 ug/L	99
74) 4-Chlorotoluene	8.885	91	2616405	197.3954 ug/L	99
75) tert-Butylbenzene	8.992	134	596932	204.0774 ug/L	98
76) sec-Butylbenzene	9.085	105	3831023	198.2713 ug/L	99
77) p-Isopropyltoluene	9.160	119	3299366	205.2250 ug/L	99
78) 1,3-Dichlorobenzene	9.186	146	1874099	193.9277 ug/L	98
79) 1,4-Dichlorobenzene	9.229	146	1839396	184.4480 ug/L	100
80) n-Butylbenzene	9.363	91	3029018	202.1417 ug/L	98
81) 1,2-Dichlorobenzene	9.432	146	1708614	188.6078 ug/L	98
82) 1,2-Dibromo-3-Chloropr...	9.806	75	103195	221.9349 ug/L	98
83) Hexachlorobutadiene	10.104	225	778043	221.0128 ug/L	100
84) 1,2,4-Trichlorobenzene	10.118	180	1383114	206.1355 ug/L	100
85) Naphthalene	10.269	128	2203125	215.1571 ug/L	99
86) 1,2,3-Trichlorobenzene	10.353	180	1214391	206.4035 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021265.D Vial: 11
Acq On : 20 May 2016 19:09 Operator: ADC
Sample : WG569734-10 200.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:21 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021266.D Vial: 12
Acq On : 20 May 2016 19:29 Operator: ADC
Sample : WG569734-11 300.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:24 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	4.985	96	358602	25.00000	ug/L		0.0000
46) Chlorobenzene-d5	7.874	117	267463	25.00000	ug/L		0.0000
64) 1,4-Dichlorobenzene-d4	9.224	152	146623	25.00000	ug/L	#	0.0000
System Monitoring Compounds							
29) Dibromofluoromethane	3.989	111	237	0.0624	ug/L		0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.250%#			
34) 1,2-Dichloroethane-d4	4.730	65	58258	16.5891	ug/L		0.0870
Spiked Amount 25.000	Range 80 - 120		Recovery =	66.356%#			
47) Toluene-d8	6.583	98	2663	0.1864	ug/L		0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.746%#			
66) p-Bromofluorobenzene	8.636	95	2102	0.4146	ug/L		0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery =	1.658%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	0.998	85	1609102	308.4738	ug/L		100
3) Chloromethane	1.105	50	1412591	302.7170	ug/L		99
4) Vinyl Chloride	1.148	62	1422035	304.4841	ug/L		100
5) 1,3-Butadiene	1.157	54	1149311	305.2756	ug/L		99
6) Bromomethane	1.325	94	821408	277.8850	ug/L		100
7) Chloroethane	1.389	64	503953	240.6618	ug/L		99
8) Trichlorofluoromethane	1.461	101	1291661	209.0621	ug/L		100
9) Diethyl ether	1.673	59	727451	303.6496	ug/L		99
10) 1,1-Dichloroethene	1.780	61	1693149	289.6710	ug/L		99
11) Carbon Disulfide	1.794	76	3336895	301.2032	ug/L		100
12) 1,1,2-Trichloro-1,2,2-...	1.809	101	1053047	292.9691	ug/L		100
13) Iodomethane	1.872	142	1655585	298.2375	ug/L		99
14) Acrolein	2.020	56	125498	295.6128	ug/L		100
15) Methylene Chloride	2.185	84	1086691	277.8376	ug/L		100
16) Acetone	2.243	43	155536	274.2257	ug/L		95
17) trans-1,2-Dichloroethene	2.307	96	1164479	305.5293	ug/L		98
18) Methyl acetate	2.338	43	564524	308.0156	ug/L	#	90
19) Methyl Tert Butyl Ether	2.414	73	2480629	300.7451	ug/L		100
20) 1,1-Dichloroethane	2.836	63	2128031	297.9741	ug/L		100
21) Acrylonitrile	2.897	53	235234	301.8561	ug/L		99
22) Vinyl Acetate	3.123	86	113928	301.6277	ug/L		93
23) cis-1,2-Dichloroethene	3.398	96	1299043	305.6704	ug/L		99
24) 2,2-Dichloropropane	3.517	77	1713524	302.8339	ug/L		97
25) Cyclohexane	3.615	56	1876727	310.0787	ug/L		99
26) Bromochloromethane	3.630	130	748681	289.6069	ug/L		99
27) Chloroform	3.748	83	2090931	294.7377	ug/L		100
28) Carbon Tetrachloride	3.887	117	1773630	330.3527	ug/L		100
30) 1,1,1-Trichloroethane	3.986	97	1896651	299.4285	ug/L		100
31) 1,1-Dichloropropene	4.160	75	1564012	302.0238	ug/L		99
32) 2-Butanone	4.189	43	269342	300.0508	ug/L		98
33) Benzene	4.478	78	4636752	295.3231	ug/L		100
35) 1,2-Dichloroethane	4.730	62	1310388	294.7356	ug/L		100
36) Methylcyclohexane	5.147	83	1909337	305.5473	ug/L		99
37) Trichloroethene	5.173	130	1387002	261.3064	ug/L		99
38) Dibromomethane	5.599	93	647031	302.7134	ug/L		100
39) 1,2-Dichloropropane	5.709	63	1246261	301.2776	ug/L		100
40) Bromodichloromethane	5.801	83	1587158	316.0555	ug/L		100
41) 1,4-Dioxane	6.027	88	13005	629.7111	ug/L		99
42) 2-Chloroethyl Vinyl Ether	6.404	63	461401	305.6544	ug/L		99
43) cis-1,3-Dichloropropene	6.415	75	1815854	329.7712	ug/L		100
44) 4-Methyl-2-Pentanone	7.012	58	246811	311.0732	ug/L		97
45) trans-1,3-Dichloropropene	7.023	75	1491694	333.8278	ug/L		99
48) Toluene	6.629	91	5041769	296.4525	ug/L		98
49) Tetrachloroethene	6.959	166	1472739	297.7735	ug/L		99
50) 1,1,2-Trichloroethane	7.153	97	849918	302.0562	ug/L		100
51) Dibromochloromethane	7.292	129	1239526	299.4116	ug/L		99

Data File : D:\MassHunter\GCMS\1\data\052016\17M021266.D Vial: 12
Acq On : 20 May 2016 19:29 Operator: ADC
Sample : WG569734-11 300.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:24 2016

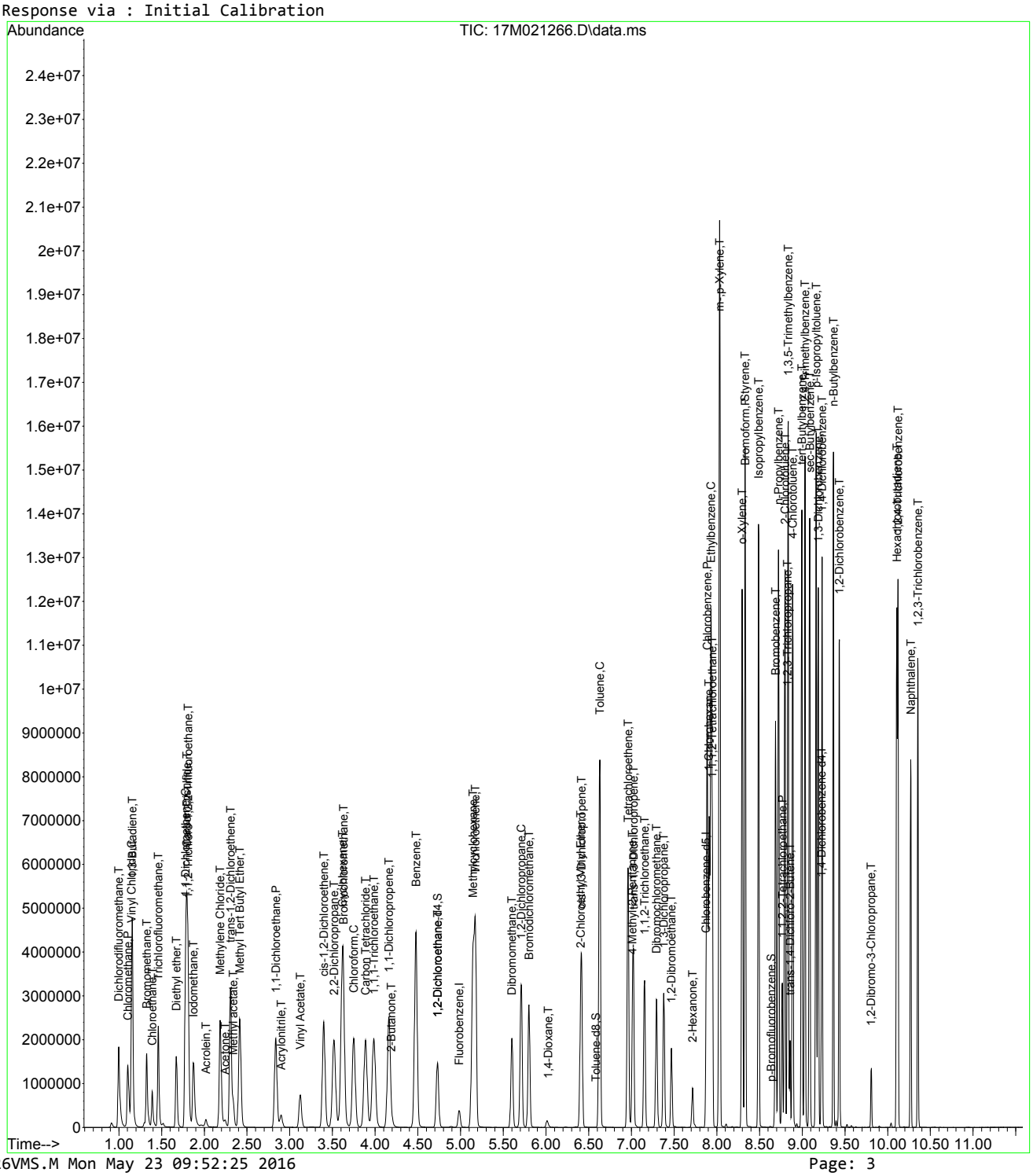
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichloropropane	7.379	76	1360255	300.5882 ug/L	99
53) 1,2-Dibromoethane	7.469	107	867644	308.2182 ug/L	100
54) 2-Hexanone	7.715	43	442898	315.2649 ug/L	100
55) Chlorobenzene	7.886	112	3291042	294.4948 ug/L	100
56) 1-Chlorohexane	7.909	69	298246	322.3611 ug/L	85
57) Ethylbenzene	7.932	106	1736780	295.4888 ug/L	95
58) 1,1,1,2-Tetrachloroethane	7.947	131	1238788	317.5569 ug/L	99
59) m-,p-Xylene	8.034	106	3985125	572.6143 ug/L	92
60) o-Xylene	8.297	106	2051977	300.4267 ug/L	95
61) Styrene	8.332	104	3347411	307.2971 ug/L	97
62) Bromoform	8.335	173	796079	296.4761 ug/L	100
63) Isopropylbenzene	8.488	105	5106387	288.5913 ug/L	97
65) 1,3,5-Trimethylbenzene	8.836	105	4380200	292.6524 ug/L	98
67) Bromobenzene	8.688	156	1531649	299.2688 ug/L	99
68) n-Propylbenzene	8.723	91	5725480	286.8547 ug/L	96
69) 1,1,2,2-Tetrachloroethane	8.766	83	896667	296.3336 ug/L	100
70) 2-Chlorotoluene	8.798	91	3607412	293.0040 ug/L	99
71) 1,2,3-Trichloropropane	8.827	110	248887	298.3039 ug/L	96
72) trans-1,4-Dichloro-2-B...	8.856	53	160859	289.7096 ug/L #	93
73) 1,2,4-Trimethylbenzene	9.033	105	4413921	294.6962 ug/L	98
74) 4-Chlorotoluene	8.888	91	3761391	294.6932 ug/L	99
75) tert-Butylbenzene	8.995	134	855327	303.6629 ug/L	95
76) sec-Butylbenzene	9.088	105	5270001	283.2339 ug/L	97
77) p-Isopropyltoluene	9.163	119	4554588	294.1970 ug/L	97
78) 1,3-Dichlorobenzene	9.186	146	2695614	289.6639 ug/L	97
79) 1,4-Dichlorobenzene	9.232	146	2632436	274.1233 ug/L	99
80) n-Butylbenzene	9.365	91	4223082	292.6665 ug/L	97
81) 1,2-Dichlorobenzene	9.435	146	2462774	282.3123 ug/L	97
82) 1,2-Dibromo-3-Chloropr...	9.806	75	156710	349.9880 ug/L	97
83) Hexachlorobutadiene	10.107	225	1167154	344.2955 ug/L	100
84) 1,2,4-Trichlorobenzene	10.121	180	2027958	313.8653 ug/L	100
85) Naphthalene	10.269	128	3182531	322.7592 ug/L	99
86) 1,2,3-Trichlorobenzene	10.356	180	1781300	314.4018 ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

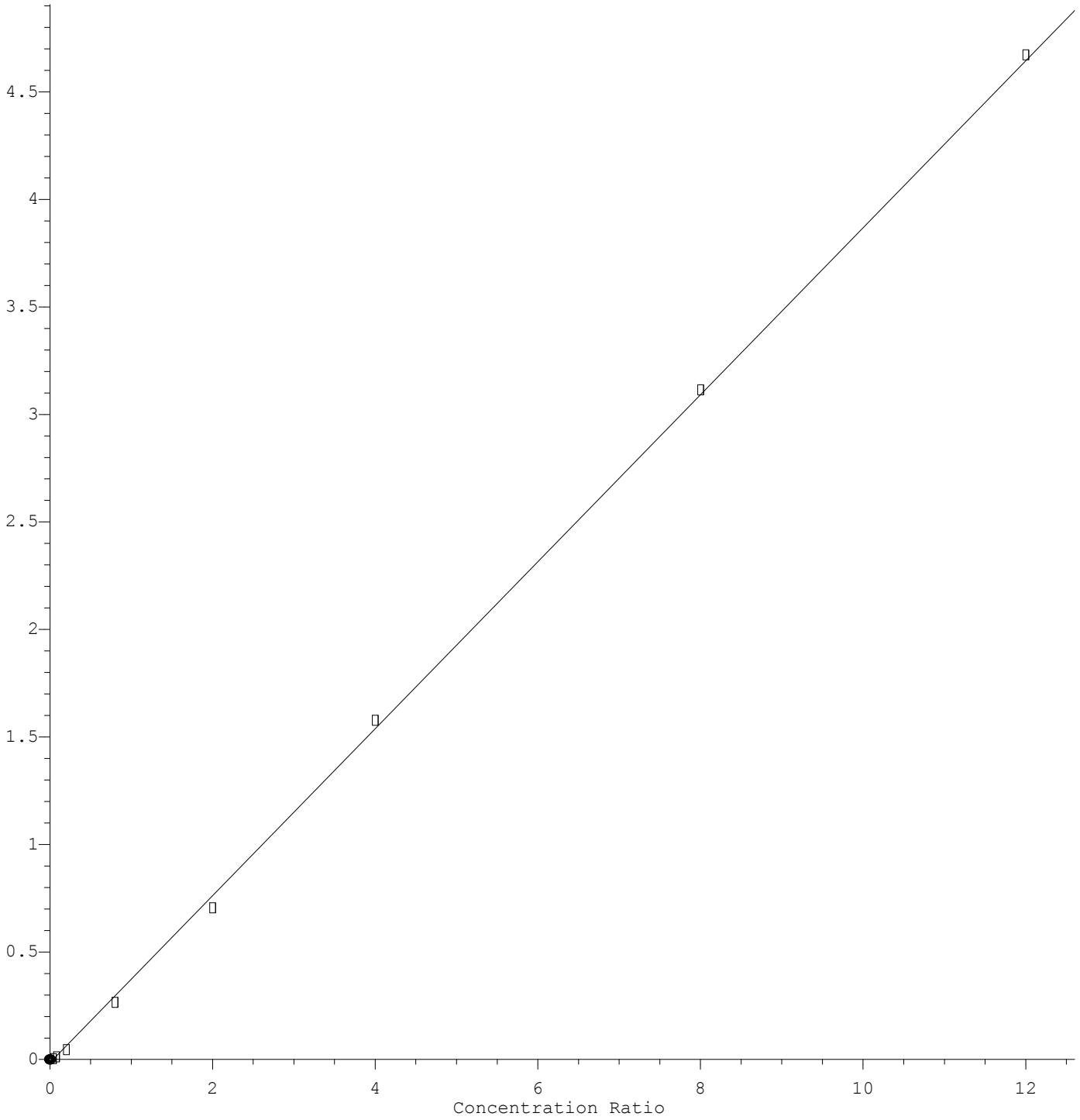
Data File : D:\MassHunter\GCMS\1\data\052016\17M021266.D Vial: 12
Acq On : 20 May 2016 19:29 Operator: ADC
Sample : WG569734-11 300.0ug/L STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 09:52:24 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

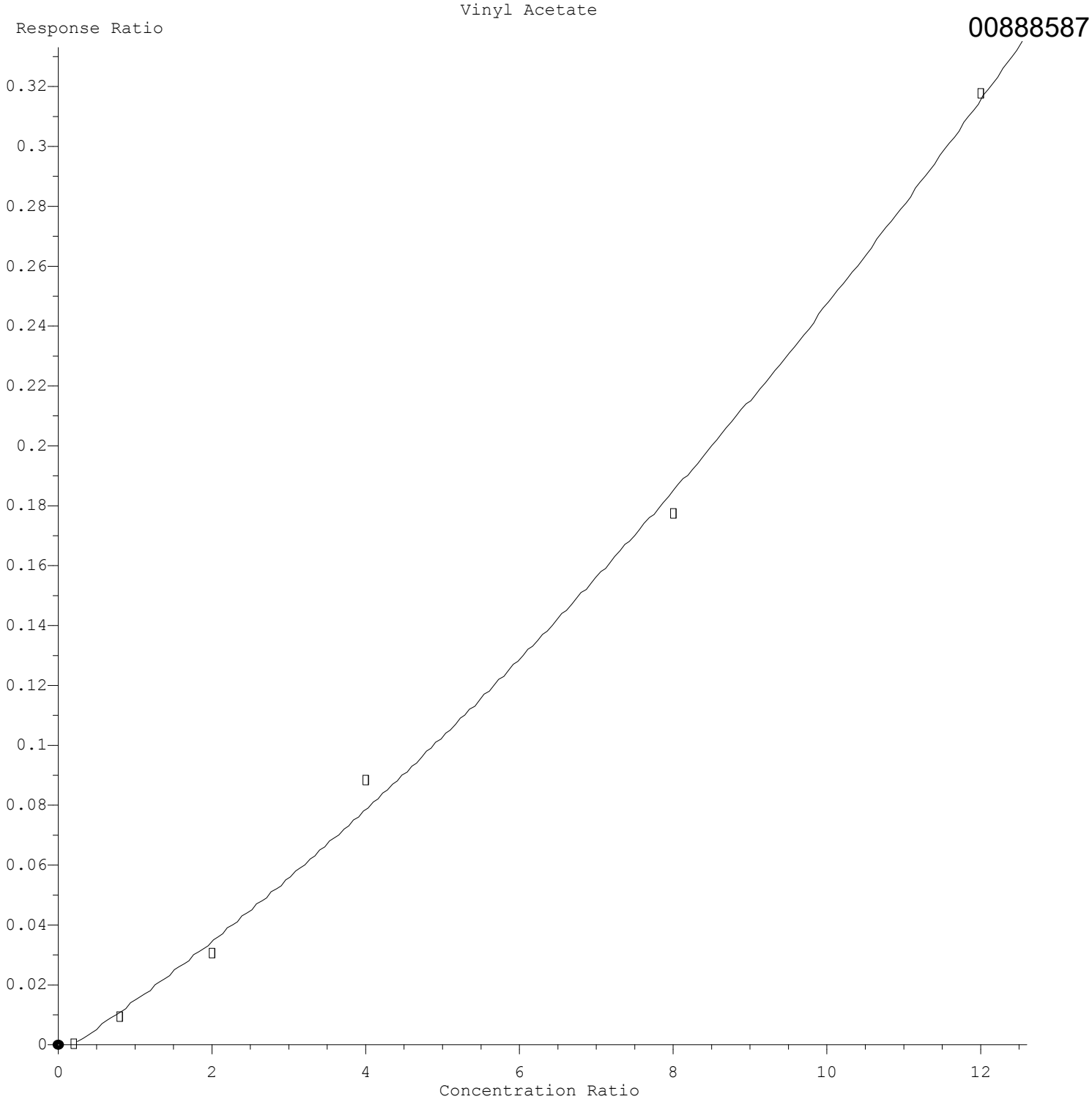


826VMS.M Mon May 23 09:52:25 2016 Page: 3

Iodomethane

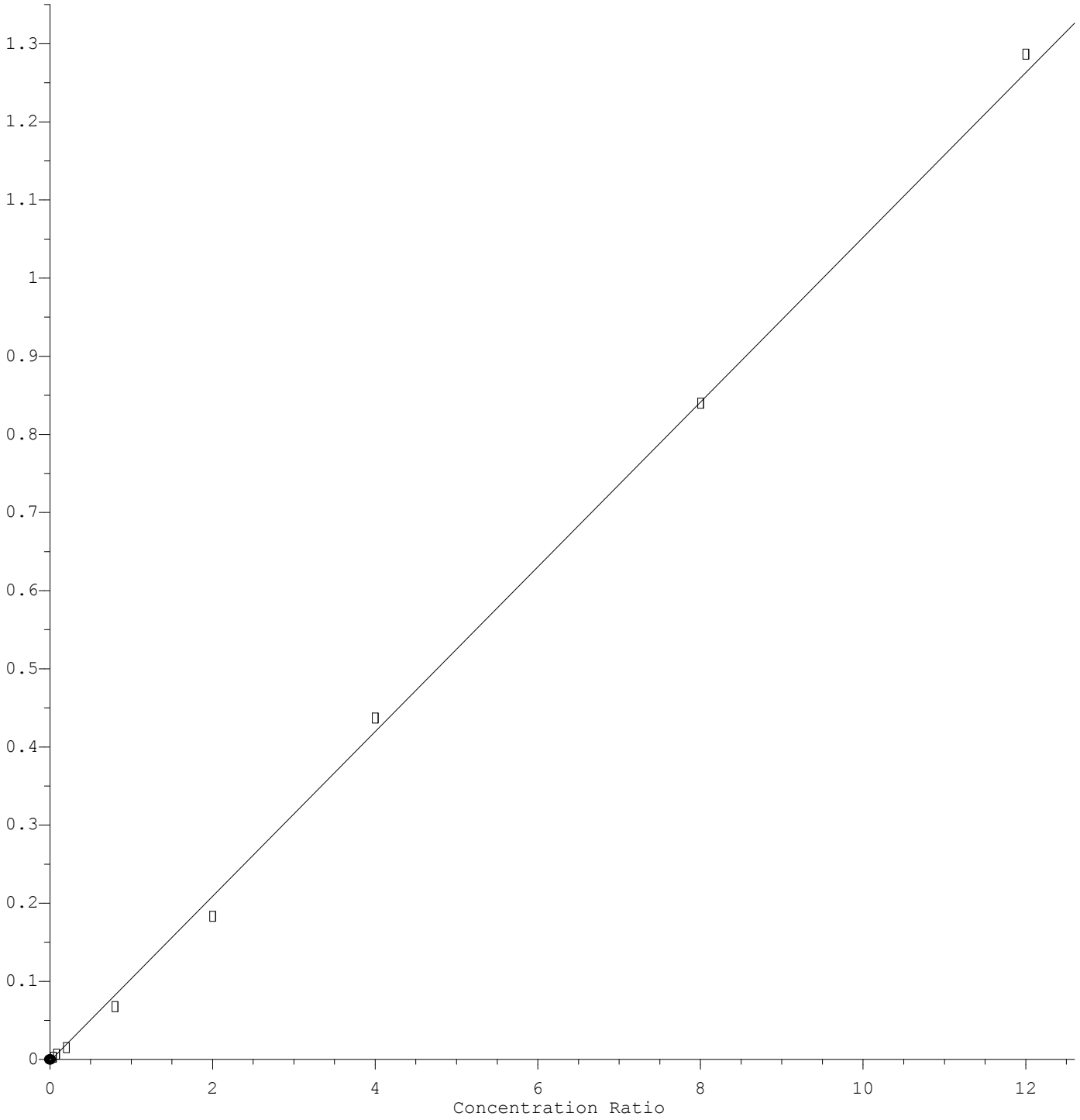


Response = 3.884e-001 * Amt - 1.685e-002
Coef of Det (r^2) = 0.998736 Curve Fit: wlr(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\826VMS.M
Calibration Table Last Updated: Sat May 21 11:03:39 2016



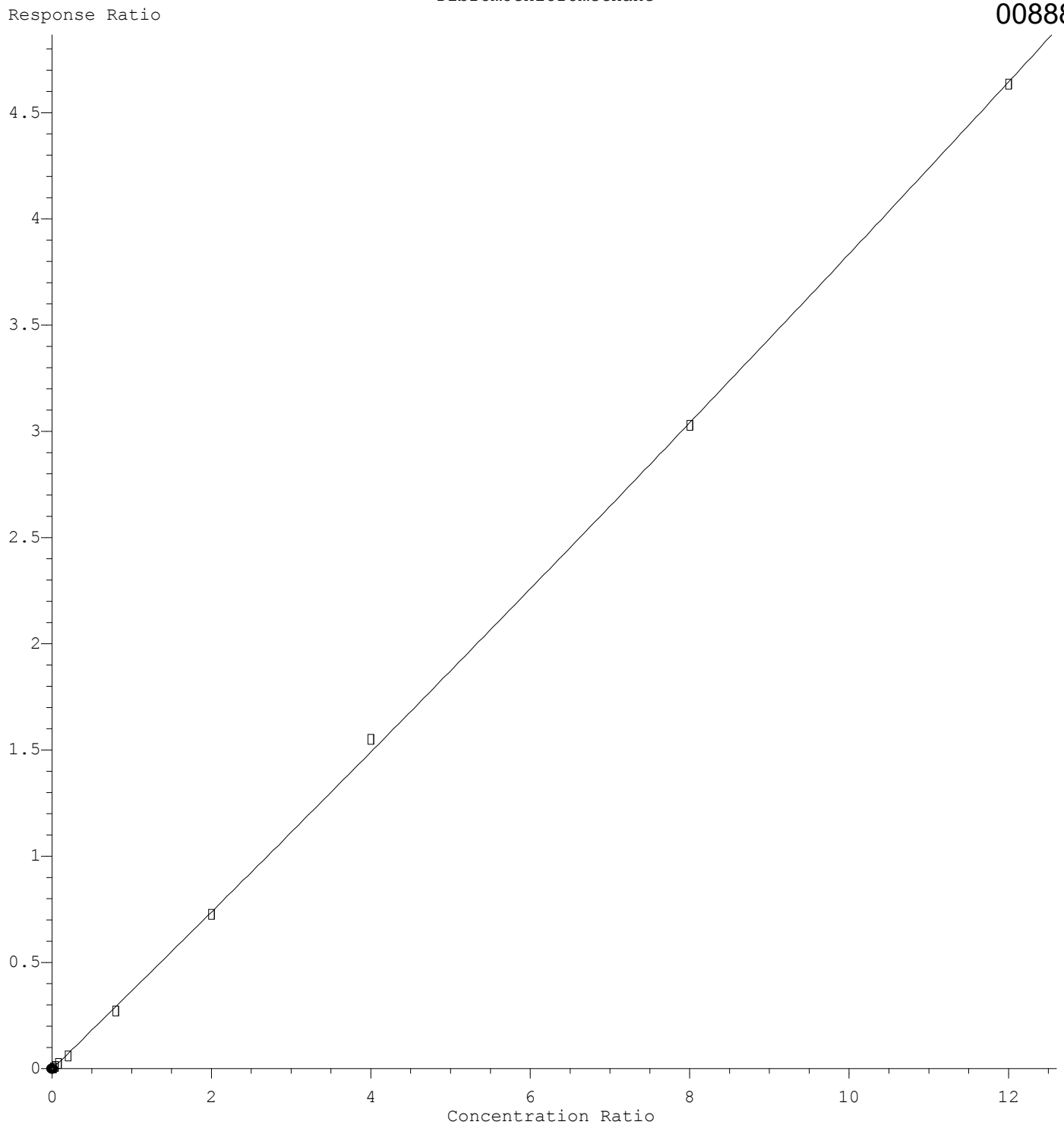
R = 7.568e-004 A*A + 1.750e-002 A - 3.595e-003
Coef of Det (r^2) = 0.996865 Curve Fit: Quadratic w(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\826VMS.M
Calibration Table Last Updated: Sat May 21 11:03:39 2016

2-Chloroethyl Vinyl Ether

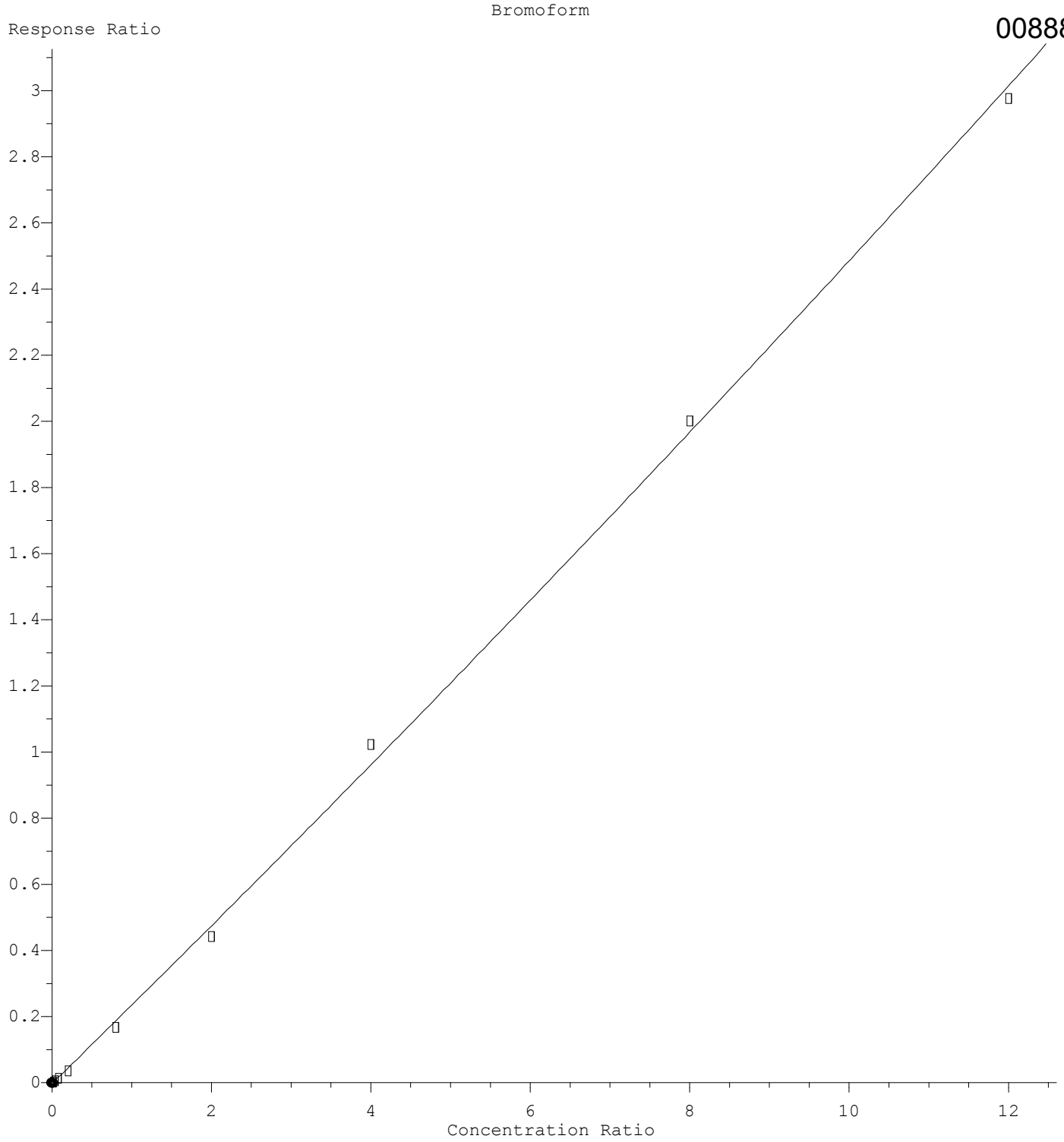


Response = 1.055e-001 * Amt - 2.590e-003
Coef of Det (r^2) = 0.997255 Curve Fit: wlr(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\826VMS.M
Calibration Table Last Updated: Sat May 21 11:03:39 2016

Dibromochloromethane



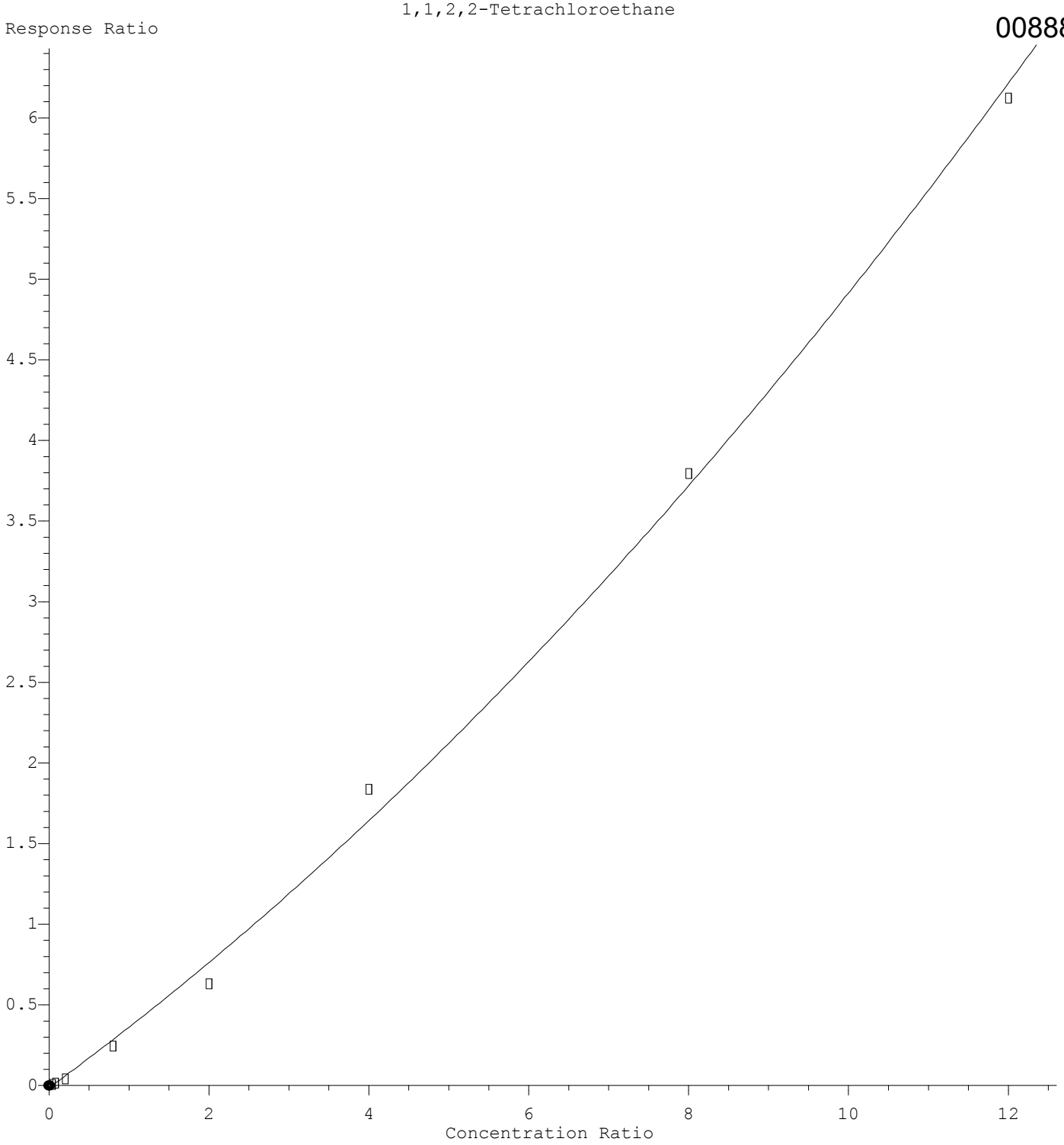
R = 1.742e-003 A*A + 3.664e-001 A - 3.394e-003
Coef of Det (r^2) = 0.999444 Curve Fit: Quadratic w(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\826VMS.M
Calibration Table Last Updated: Sat May 21 11:03:39 2016



R = 1.310e-003 A*A + 2.357e-001 A - 3.215e-003
Coef of Det (r^2) = 0.998279 Curve Fit: Quadratic w(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\826VMS.M
Calibration Table Last Updated: Sat May 21 11:03:39 2016

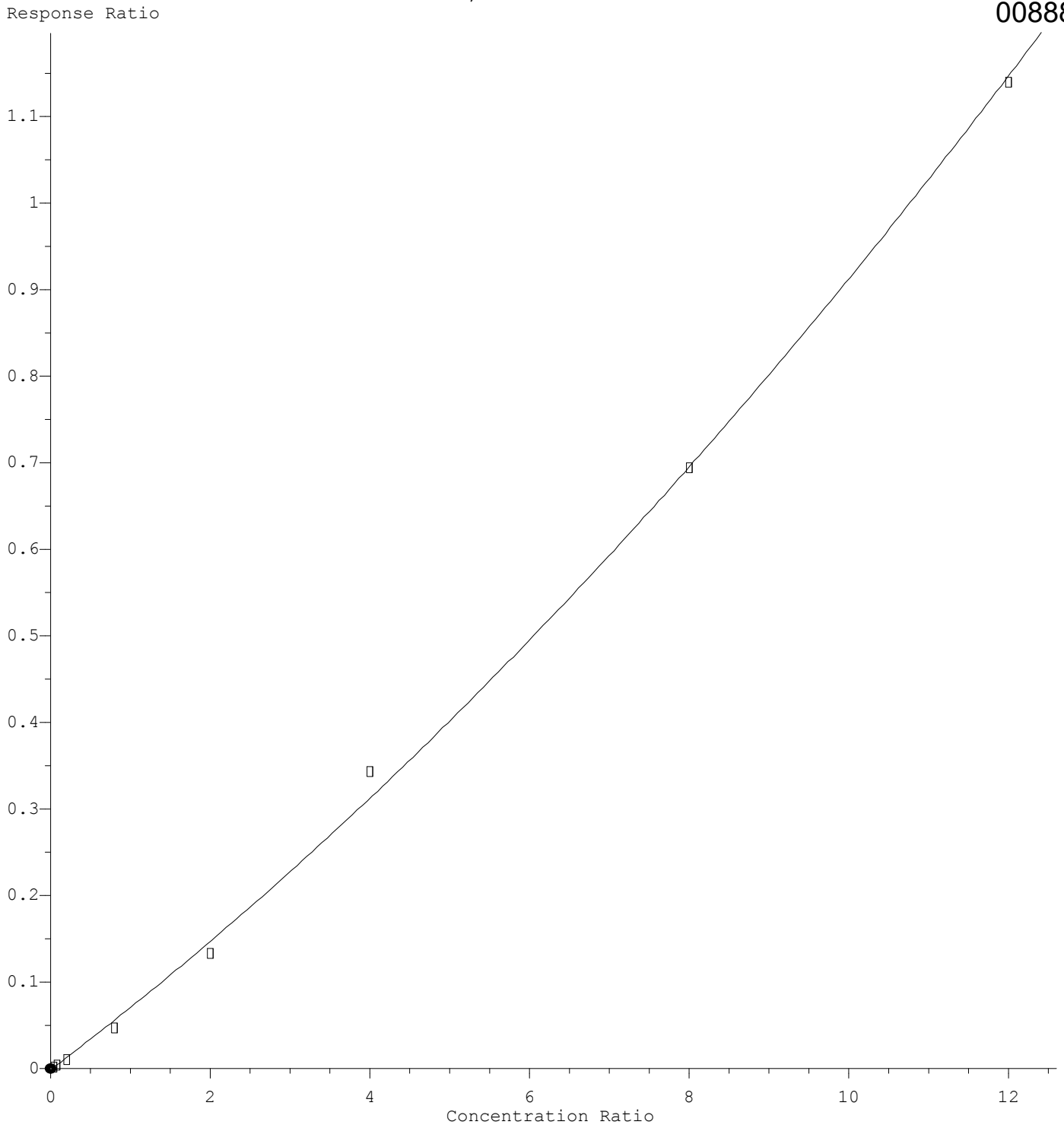
1,1,2,2-Tetrachloroethane

00888591



R = 1.314e-002 A*A + 3.614e-001 A - 1.428e-002
Coef of Det (r^2) = 0.995998 Curve Fit: Quadratic w(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\826VMS.M
Calibration Table Last Updated: Sat May 21 11:03:39 2016

trans-1,4-Dichloro-2-Butene



R = 2.156e-003 A*A + 6.983e-002 A - 1.678e-003
Coef of Det (r^2) = 0.997729 Curve Fit: Quadratic w(1/a)
Method Name: D:\MassHunter\GCMS\1\methods\826VMS.M
Calibration Table Last Updated: Sat May 21 11:03:39 2016

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021268.D Vial: 14
Acq On : 20 May 2016 20:08 Operator: ADC
Sample : WG569734-12 50.0ug/L ALT 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:10:57 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.982	96	383120	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	288625	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	152916	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.983	111	107630	26.5248 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.099%		
34) 1,2-Dichloroethane-d4	4.640	65	97405	25.9612 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.845%		
47) Toluene-d8	6.577	98	405616	26.3153 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.261%		
66) p-Bromofluorobenzene	8.633	95	139835	26.4484 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.794%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.995	85	189005	33.9145 ug/L	100
3) Chloromethane	1.102	50	215669	43.2599 ug/L	100
4) Vinyl Chloride	1.149	62	222042	44.5007 ug/L	100
5) 1,3-Butadiene	1.154	54	189069	47.0059 ug/L	100
6) Bromomethane	1.322	94	122488	38.7862 ug/L	100
7) Chloroethane	1.389	64	86679	38.7444 ug/L	100
8) Trichlorofluoromethane	1.458	101	201032	30.4558 ug/L	100
9) Diethyl ether	1.673	59	240218	93.8539 ug/L	99
10) 1,1-Dichloroethene	1.774	61	261017	41.7981 ug/L	99
11) Carbon Disulfide	1.788	76	599654	50.6635 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.803	101	179237	46.6745 ug/L	99
13) Iodomethane	1.869	142	210842	36.5060 ug/L	99
14) Acrolein	2.020	56	24745	54.5572 ug/L	100
15) Methylene Chloride	2.182	84	185673	44.4336 ug/L	100
16) Acetone	2.246	43	30789	50.8102 ug/L	96
17) trans-1,2-Dichloroethene	2.304	96	189604	46.5636 ug/L	99
18) Methyl acetate	2.367	43	279193	142.5846 ug/L #	72
19) Methyl Tert Butyl Ether	2.417	73	459751	52.1720 ug/L	96
20) 1,1-Dichloroethane	2.831	63	340833	44.6704 ug/L	99
21) Acrylonitrile	2.897	53	42578	51.1403 ug/L	100
22) Vinyl Acetate	3.120	86	14913	55.4311 ug/L #	1
23) cis-1,2-Dichloroethene	3.395	96	221956	48.8849 ug/L	99
24) 2,2-Dichloropropane	3.514	77	278193	46.0191 ug/L	99
25) Cyclohexane	3.604	56	339774	52.5459 ug/L #	75
26) Bromochloromethane	3.621	130	128919	46.6774 ug/L	99
27) Chloroform	3.746	83	354172	46.7292 ug/L	99
28) Carbon Tetrachloride	3.882	117	281104	49.0072 ug/L	99
30) 1,1,1-Trichloroethane	3.980	97	318571	47.0749 ug/L	99
31) 1,1-Dichloropropene	4.154	75	255921	46.2578 ug/L	99
32) 2-Butanone	4.189	43	49753	51.8786 ug/L #	66
33) Benzene	4.469	78	794220	47.3481 ug/L	100
35) 1,2-Dichloroethane	4.724	62	227234	47.8392 ug/L	100
36) Methylcyclohexane	5.135	83	342062	51.2364 ug/L	100
37) Trichloroethene	5.167	130	257707	45.4441 ug/L	99
38) Dibromomethane	5.596	93	105030	45.9936 ug/L	100
39) 1,2-Dichloropropane	5.706	63	219650	49.7012 ug/L	100
40) Bromodichloromethane	5.798	83	267210	49.8051 ug/L	100
41) 1,4-Dioxane	6.033	88	4257	192.9357 ug/L	99
42) 2-Chloroethyl Vinyl Ether	6.398	63	78416	49.1385 ug/L	98
43) cis-1,3-Dichloropropene	6.412	75	325481	55.3268 ug/L	100
44) 4-Methyl-2-Pentanone	7.006	58	43256	51.0296 ug/L	96
45) trans-1,3-Dichloropropene	7.017	75	247045	51.7484 ug/L	99
48) Toluene	6.624	91	893081	48.6623 ug/L	100
49) Tetrachloroethene	6.957	166	249706	46.7863 ug/L	100
50) 1,1,2-Trichloroethane	7.151	97	149061	49.0913 ug/L	99
51) Dibromochloromethane	7.290	129	204821	48.2128 ug/L	100

826VMS.M Mon May 23 11:52:41 2016 Page: 1

Data File : D:\MassHunter\GCMS\1\data\052016\17M021268.D Vial: 14
Acq On : 20 May 2016 20:08 Operator: ADC
Sample : WG569734-12 50.0ug/L ALT 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:10:57 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

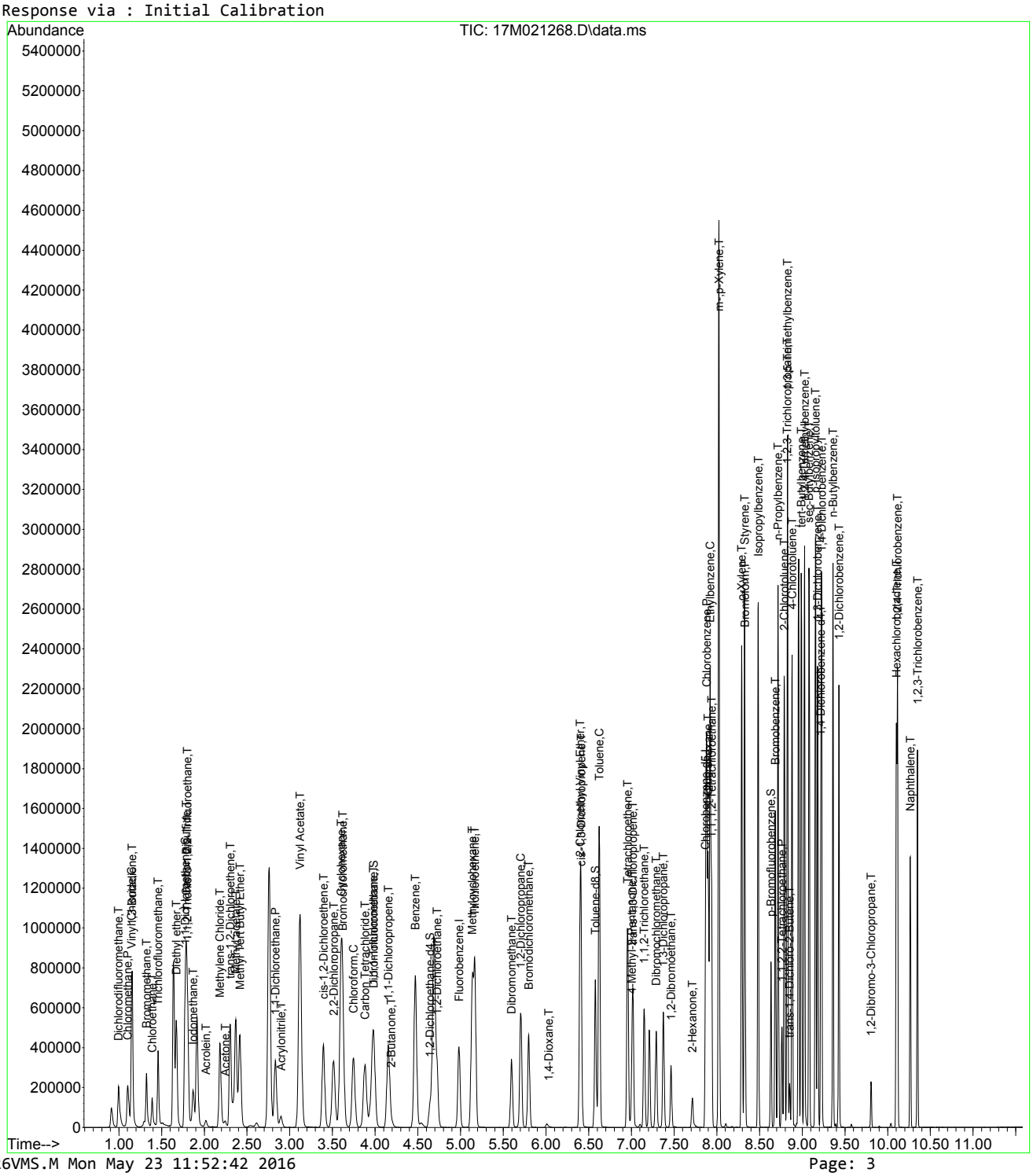
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,3-Dichloropropane	7.373	76	252212	51.6472	ug/L		99
53) 1,2-Dibromoethane	7.463	107	150235	49.4558	ug/L		99
54) 2-Hexanone	7.712	43	75357	49.7079	ug/L		100
55) Chlorobenzene	7.880	112	593687	49.2302	ug/L		99
56) 1-Chlorohexane	7.898	69	52342	52.4262	ug/L		96
57) Ethylbenzene	7.921	106	309826	48.8477	ug/L		100
58) 1,1,1,2-Tetrachloroethane	7.938	131	217700	51.7146	ug/L		100
59) m-,p-Xylene	8.025	106	757403	100.8503	ug/L		99
60) o-Xylene	8.291	106	372205	50.4984	ug/L		99
61) Styrene	8.326	104	595947	50.6975	ug/L		100
62) Bromoform	8.329	173	126534	46.3604	ug/L		99
63) Isopropylbenzene	8.485	105	962186	50.3916	ug/L		100
65) 1,3,5-Trimethylbenzene	8.827	105	811526	51.9888	ug/L		100
67) Bromobenzene	8.685	156	259431	48.6041	ug/L		100
68) n-Propylbenzene	8.717	91	1102619	52.9694	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.760	83	133847	56.8425	ug/L		100
70) 2-Chlorotoluene	8.789	91	650403	50.6535	ug/L		100
71) 1,2,3-Trichloropropane	8.824	110	45789	52.6220	ug/L		98
72) trans-1,4-Dichloro-2-B...	8.853	53	19752	44.4103	ug/L	#	96
73) 1,2,4-Trimethylbenzene	9.027	105	789352	50.5324	ug/L		100
74) 4-Chlorotoluene	8.882	91	689293	51.7815	ug/L		100
75) tert-Butylbenzene	8.989	134	152330	51.8554	ug/L		100
76) sec-Butylbenzene	9.079	105	999640	51.5143	ug/L		100
77) p-Isopropyltoluene	9.154	119	836169	51.7884	ug/L		100
78) 1,3-Dichlorobenzene	9.180	146	487820	50.2627	ug/L		99
79) 1,4-Dichlorobenzene	9.227	146	489661	48.8914	ug/L		100
80) n-Butylbenzene	9.360	91	771900	51.2925	ug/L		100
81) 1,2-Dichlorobenzene	9.429	146	460958	50.6659	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.806	75	26193	56.0907	ug/L		99
83) Hexachlorobutadiene	10.104	225	201707	57.0523	ug/L		100
84) 1,2,4-Trichlorobenzene	10.115	180	355539	52.7619	ug/L		100
85) Naphthalene	10.266	128	519733	50.5400	ug/L		100
86) 1,2,3-Trichlorobenzene	10.350	180	310981	52.6297	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021268.D Vial: 14
Acq On : 20 May 2016 20:08 Operator: ADC
Sample : WG569734-12 50.0ug/L ALT 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:10:57 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



826VMS.M Mon May 23 11:52:42 2016 Page: 3

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\052016\17M021268.D Vial: 14
Acq On : 20 May 2016 20:08 Operator: ADC
Sample : WG569734-12 50.0ug/L ALT 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:10:57 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	99	0.000
2	T	Dichlorodifluoromethane	0.364	0.247	32.1#	62	0.000
3	P	Chloromethane	0.325	0.281	13.5	85	0.000
4	C	Vinyl Chloride	0.326	0.290	11.0#	85	0.000
5	T	1,3-Butadiene	0.262	0.247	5.7	87	0.000
6	T	Bromomethane	0.206	0.160	22.3	78	0.000
7	T	Chloroethane	0.146	0.113	22.6	76	0.000
8	T	Trichlorofluoromethane	0.431	0.262	39.2#	56	-0.018
9	T	Diethyl ether	0.167	0.314	-88.0#	184#	0.000
10	C	1,1-Dichloroethene	0.407	0.341	16.2#	82	-0.012
11	T	Carbon Disulfide	0.772	0.783	-1.4	97	-0.012
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.251	0.234	6.8	88	-0.011
13	T	Iodomethane	0.294	0.275	6.5	77	0.000
14	T	Acrolein	0.030	0.032	-6.7	111	0.000
15	T	Methylene Chloride	0.273	0.242	11.4	89	0.000
16	T	Acetone	0.040	0.040	0.0	101	0.015
17	T	trans-1,2-Dichloroethene	0.266	0.247	7.1	93	0.000
18	T	Methyl acetate	0.128	0.364	-184.4#	275#	0.034
19	T	Methyl Tert Butyl Ether	0.575	0.600	-4.3	103	0.000
20	P	1,1-Dichloroethane	0.498	0.445	10.6	86	0.000
21	T	Acrylonitrile	0.054	0.056	-3.7	102	0.000
22	T	Vinyl Acetate	0.017	0.019	-11.8	126	0.000
23	T	cis-1,2-Dichloroethene	0.296	0.290	2.0	94	0.000
24	T	2,2-Dichloropropane	0.394	0.363	7.9	86	0.000
25	T	Cyclohexane	0.422	0.443	-5.0	97	0.000
26	T	Bromochloromethane	0.180	0.168	6.7	90	0.000
27	C	Chloroform	0.495	0.462	6.7#	91	0.000
28	T	Carbon Tetrachloride	0.374	0.367	1.9	88	0.000
29	S	Dibromofluoromethane	0.265	0.281	-6.0	103	0.000
30	T	1,1,1-Trichloroethane	0.442	0.416	5.9	90	0.000
31	T	1,1-Dichloropropene	0.361	0.334	7.5	89	0.000
32	T	2-Butanone	0.063	0.065	-3.2	108	0.012
33	T	Benzene	1.095	1.037	5.3	92	0.000
34	S	1,2-Dichloroethane-d4	0.245	0.254	-3.7	102	0.000
35	T	1,2-Dichloroethane	0.310	0.297	4.2	94	0.000
36	T	Methylcyclohexane	0.436	0.446	-2.3	96	0.000
37	T	Trichloroethene	0.370	0.336	9.2	91	0.000
38	T	Dibromomethane	0.149	0.137	8.1	91	0.000
39	C	1,2-Dichloropropane	0.288	0.287	0.3#	97	0.000
40	T	Bromodichloromethane	0.350	0.349	0.3	93	0.000
41	T	1,4-Dioxane	0.001	0.003	-200.0#	201#	0.023
42	T	2-Chloroethyl Vinyl Ether	0.091	0.102	-12.1	111	0.000
43	T	cis-1,3-Dichloropropene	0.384	0.425	-10.7	102	0.000
44	T	4-Methyl-2-Pentanone	0.055	0.056	-1.8	107	0.000
45	T	trans-1,3-Dichloropropene	0.312	0.322	-3.2	96	0.000
46	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.000
47	S	Toluene-d8	1.335	1.405	-5.2	100	0.000
48	C	Toluene	1.590	1.547	2.7#	94	0.000
49	T	Tetrachloroethene	0.462	0.433	6.3	92	0.000
50	T	1,1,2-Trichloroethane	0.263	0.258	1.9	97	0.000
51	T	Dibromochloromethane	0.331	0.355	-7.3	97	0.000
52	T	1,3-Dichloropropane	0.423	0.437	-3.3	102	0.000
53	T	1,2-Dibromoethane	0.263	0.260	1.1	98	0.000
54	T	2-Hexanone	0.131	0.131	0.0	107	0.000
55	P	Chlorobenzene	1.045	1.028	1.6	97	0.000
56	T	1-Chlorohexane	0.086	0.091	-5.8	97	0.000
57	C	Ethylbenzene	0.549	0.537	2.2#	95	0.000

Data File : D:\MassHunter\GCMS\1\data\052016\17M021268.D Vial: 14
Acq On : 20 May 2016 20:08 Operator: ADC
Sample : WG569734-12 50.0ug/L ALT 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:10:57 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58	T	1,1,1,2-Tetrachloroethane	0.365	0.377	-3.3	96	0.000
59	T	m-,p-Xylene	0.651	0.656	-0.8	97	0.000
60	T	o-Xylene	0.638	0.645	-1.1	99	0.000
61	T	Styrene	1.018	1.032	-1.4	96	0.000
62	P	Bromoform	0.201	0.219	-9.0	98	0.000
63	T	Isopropylbenzene	1.654	1.667	-0.8	97	0.000
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	97	0.000
65	T	1,3,5-Trimethylbenzene	2.552	2.654	-4.0	97	0.000
66	S	p-Bromofluorobenzene	0.864	0.914	-5.8	99	0.000
67	T	Bromobenzene	0.873	0.848	2.9	95	0.000
68	T	n-Propylbenzene	3.403	3.605	-5.9	98	0.000
69	P	1,1,2,2-Tetrachloroethane	0.326	0.438	-34.4#	134	0.000
70	T	2-Chlorotoluene	2.099	2.127	-1.3	97	0.000
71	T	1,2,3-Trichloropropane	0.142	0.150	-5.6	105	0.000
72	T	trans-1,4-Dichloro-2-Butene	0.068	0.065	4.4	94	0.000
73	T	1,2,4-Trimethylbenzene	2.554	2.581	-1.1	95	0.000
74	T	4-Chlorotoluene	2.176	2.254	-3.6	99	0.000
75	T	tert-Butylbenzene	0.480	0.498	-3.8	98	0.000
76	T	sec-Butylbenzene	3.173	3.269	-3.0	96	0.000
77	T	p-Isopropyltoluene	2.640	2.734	-3.6	95	0.000
78	T	1,3-Dichlorobenzene	1.587	1.595	-0.5	99	0.000
79	T	1,4-Dichlorobenzene	1.637	1.601	2.2	101	0.000
80	T	n-Butylbenzene	2.460	2.524	-2.6	96	0.000
81	T	1,2-Dichlorobenzene	1.487	1.507	-1.3	103	0.000
82	T	1,2-Dibromo-3-Chloropropane	0.076	0.086	-13.2	121	0.000
83	T	Hexachlorobutadiene	0.578	0.660	-14.2	107	0.000
84	T	1,2,4-Trichlorobenzene	1.102	1.163	-5.5	106	0.000
85	T	Naphthalene	1.681	1.699	-1.1	99	0.000
86	T	1,2,3-Trichlorobenzene	0.966	1.017	-5.3	107	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\052016\17M021268.D Vial: 14
Acq On : 20 May 2016 20:08 Operator: ADC
Sample : WG569734-13 50.0ug/L ALT 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 11:01:16 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:58:41 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	99	0.000
2	T	Dichlorodifluoromethane	50.000	33.915	32.2#	62	0.000
3	P	Chloromethane	50.000	43.260	13.5	85	0.000
4	C	Vinyl Chloride	50.000	44.501	11.0#	85	0.000
5	T	1,3-Butadiene	50.000	47.006	6.0	87	0.000
6	T	Bromomethane	50.000	38.786	22.4	78	0.000
7	T	Chloroethane	50.000	38.744	22.5	76	0.000
8	T	Trichlorofluoromethane	50.000	30.456	39.1#	56	-0.018
9	T	Diethyl ether	50.000	93.854	-87.7#	184	0.000
10	C	1,1-Dichloroethene	50.000	41.798	16.4#	82	-0.012
11	T	Carbon Disulfide	50.000	50.664	-1.3	97	-0.012
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	46.675	6.7	88	-0.011
13	T	Iodomethane	50.000	36.506	27.0#	77	0.000
14	T	Acrolein	50.000	54.557	-9.1	111	0.000
15	T	Methylene Chloride	50.000	44.434	11.1	89	0.000
16	T	Acetone	50.000	50.810	-1.6	101	0.015
17	T	trans-1,2-Dichloroethene	50.000	46.564	6.9	93	0.000
18	T	Methyl acetate	50.000	142.585	-185.2#	275	0.034
19	T	Methyl Tert Butyl Ether	50.000	52.172	-4.3	103	0.000
20	P	1,1-Dichloroethane	50.000	44.670	10.7	86	0.000
21	T	Acrylonitrile	50.000	51.140	-2.3	102	0.000
22	T	Vinyl Acetate	50.000	55.431	-10.9	126	0.000
23	T	cis-1,2-Dichloroethene	50.000	48.885	2.2	94	0.000
24	T	2,2-Dichloropropane	50.000	46.019	8.0	86	0.000
25	T	Cyclohexane	50.000	52.546	-5.1	97	0.000
26	T	Bromochloromethane	50.000	46.677	6.6	90	0.000
27	C	Chloroform	50.000	46.729	6.5#	91	0.000
28	T	Carbon Tetrachloride	50.000	49.007	2.0	88	0.000
29	S	Dibromofluoromethane	25.000	26.525	-6.1	103	0.000
30	T	1,1,1-Trichloroethane	50.000	47.075	5.8	90	0.000
31	T	1,1-Dichloropropene	50.000	46.258	7.5	89	0.000
32	T	2-Butanone	50.000	51.879	-3.8	108	0.012
33	T	Benzene	50.000	47.348	5.3	92	0.000
34	S	1,2-Dichloroethane-d4	25.000	25.961	-3.8	102	0.000
35	T	1,2-Dichloroethane	50.000	47.839	4.3	94	0.000
36	T	Methylcyclohexane	50.000	51.236	-2.5	96	0.000
37	T	Trichloroethene	50.000	45.444	9.1	91	0.000
38	T	Dibromomethane	50.000	45.994	8.0	91	0.000
39	C	1,2-Dichloropropane	50.000	49.701	0.6#	97	0.000
40	T	Bromodichloromethane	50.000	49.805	0.4	93	0.000
41	T	1,4-Dioxane	100.000	192.936	-92.9#	201	0.023
42	T	2-Chloroethyl Vinyl Ether	50.000	49.138	1.7	111	0.000
43	T	cis-1,3-Dichloropropene	50.000	55.327	-10.7	102	0.000
44	T	4-Methyl-2-Pentanone	50.000	51.030	-2.1	107	0.000
45	T	trans-1,3-Dichloropropene	50.000	51.748	-3.5	96	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	99	0.000
47	S	Toluene-d8	25.000	26.315	-5.3	100	0.000
48	C	Toluene	50.000	48.662	2.7#	94	0.000
49	T	Tetrachloroethene	50.000	46.786	6.4	92	0.000
50	T	1,1,2-Trichloroethane	50.000	49.091	1.8	97	0.000
51	T	Dibromochloromethane	50.000	47.661	4.7	97	0.000
52	T	1,3-Dichloropropane	50.000	51.647	-3.3	102	0.000
53	T	1,2-Dibromoethane	50.000	49.456	1.1	98	0.000
54	T	2-Hexanone	50.000	49.708	0.6	107	0.000
55	P	Chlorobenzene	50.000	49.230	1.5	97	0.000
56	T	1-Chlorohexane	50.000	52.426	-4.9	97	0.000
57	C	Ethylbenzene	50.000	48.848	2.3#	95	0.000

Data File : D:\MassHunter\GCMS\1\data\052016\17M021268.D Vial: 14
Acq On : 20 May 2016 20:08 Operator: ADC
Sample : WG569734-13 50.0ug/L ALT 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 11:01:16 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:58:41 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
58	T	1,1,1,2-Tetrachloroethane	50.000	51.715	-3.4	96	0.000
59	T	m-,p-Xylene	100.000	100.850	-0.8	97	0.000
60	T	o-Xylene	50.000	50.498	-1.0	99	0.000
61	T	Styrene	50.000	50.698	-1.4	96	0.000
62	P	Bromoform	50.000	46.360	7.3	98	0.000
63	T	Isopropylbenzene	50.000	50.392	-0.8	97	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	97	0.000
65	T	1,3,5-Trimethylbenzene	50.000	51.989	-4.0	97	0.000
66	S	p-Bromofluorobenzene	25.000	26.448	-5.8	99	0.000
67	T	Bromobenzene	50.000	48.604	2.8	95	0.000
68	T	n-Propylbenzene	50.000	52.969	-5.9	98	0.000
69	P	1,1,2,2-Tetrachloroethane	50.000	56.843	-13.7	134	0.000
70	T	2-Chlorotoluene	50.000	50.654	-1.3	97	0.000
71	T	1,2,3-Trichloropropane	50.000	52.622	-5.2	105	0.000
72	T	trans-1,4-Dichloro-2-Butene	50.000	44.410	11.2	94	0.000
73	T	1,2,4-Trimethylbenzene	50.000	50.532	-1.1	95	0.000
74	T	4-Chlorotoluene	50.000	51.782	-3.6	99	0.000
75	T	tert-Butylbenzene	50.000	51.855	-3.7	98	0.000
76	T	sec-Butylbenzene	50.000	51.514	-3.0	96	0.000
77	T	p-Isopropyltoluene	50.000	51.788	-3.6	95	0.000
78	T	1,3-Dichlorobenzene	50.000	50.263	-0.5	99	0.000
79	T	1,4-Dichlorobenzene	50.000	48.891	2.2	101	0.000
80	T	n-Butylbenzene	50.000	51.292	-2.6	96	0.000
81	T	1,2-Dichlorobenzene	50.000	50.666	-1.3	103	0.000
82	T	1,2-Dibromo-3-Chloropropane	50.000	56.091	-12.2	121	0.000
83	T	Hexachlorobutadiene	50.000	57.052	-14.1	107	0.000
84	T	1,2,4-Trichlorobenzene	50.000	52.762	-5.5	106	0.000
85	T	Naphthalene	50.000	50.540	-1.1	99	0.000
86	T	1,2,3-Trichlorobenzene	50.000	52.630	-5.3	107	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data File : C:\MSDCHEM\1\DATA\052116\11M12016.D Vial: 2
Acq On : 21 May 2016 12:00 Operator: JDS
Sample : WG569785-02 50ug/L CCV STD 8260 Inst : hpms11
Misc : 1,1 STD76227 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 21 12:27:38 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	413643	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.25	117	376545	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	235964	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.63	111	129156	28.5303	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 114.12%			
43) 1,2-Dichloroethane-d4	10.23	65	147652	28.6049	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 114.40%			
57) Toluene-d8	12.47	98	425940	26.0341	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.12%			
78) p-Bromofluorobenzene	15.64	95	179172	24.6324	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	408570	63.0409	ug/L	99
3) Chloromethane	3.72	50	264929	51.0401	ug/L	99
4) Vinyl Chloride	3.96	62	250947	58.2170	ug/L	100
5) 1,3-Butadiene	4.00	54	273078	63.7112	ug/L	99
6) Bromomethane	4.85	94	139240	46.9811	ug/L	100
7) Chloroethane	5.00	64	145147	52.4071	ug/L	99
8) Trichlorofluoromethane	5.48	101	518432	60.3413	ug/L	100
9) Diethyl ether	6.01	59	272217	85.6703	ug/L	98
10) Isoprene	6.04	67	273024	51.5562	ug/L	97
11) Acrolein	6.23	56	14637	35.4878	ug/L	95
12) 1,1,2-Trichloro-1,2,2-Trif	6.26	101	232928	55.8720	ug/L	100
13) Acetone	6.34	43	47454	48.3132	ug/L	100
14) 1,1-Dichloroethene	6.56	61	424152	56.0124	ug/L	96
15) Tert-Butyl Alcohol	6.66	59	54657	201.1770	ug/L	99
16) Dimethyl Sulfide	6.81	62	153839	50.8704	ug/L	94
17) Iodomethane	7.06	142	191782	55.3681	ug/L	93
18) Methyl acetate	7.07	43	143097	46.8400	ug/L	98
19) Methylene Chloride	7.31	84	200493	51.1590	ug/L	96
20) Carbon Disulfide	7.36	76	676709	53.3796	ug/L	100
21) Acrylonitrile	7.49	53	66607	50.5773	ug/L	99
22) Methyl Tert Butyl Ether	7.52	73	530113	54.2336	ug/L	98
23) trans-1,2-Dichloroethene	7.75	96	221202	52.7807	ug/L	97
24) n-Hexane	7.82	57	359820	51.5481	ug/L	99
25) Diisopropyl ether	8.15	45	1750031	100.4738	ug/L	98
26) Vinyl Acetate	8.31	43	307516	45.7020	ug/L	99
27) 1,1-Dichloroethane	8.34	63	459365	54.6266	ug/L	100
28) Ethyl-Tert-Butyl ether	8.70	59	1454900	102.6270	ug/L	99
29) 2-Butanone	8.87	43	70028	47.1599	ug/L	97
30) Propionitrile	8.97	54	42233	97.1066	ug/L	98
31) 2,2-Dichloropropane	9.09	77	400336	60.8469	ug/L	99
32) cis-1,2-Dichloroethene	9.15	96	243707	52.7396	ug/L	93
33) Chloroform	9.35	83	455300	55.1344	ug/L	100
34) 1-Bromopropane	9.48	122	45123	54.9075	ug/L	97
35) Bromochloromethane	9.57	130	159331	58.0580	ug/L	98
36) Tetrahydrofuran	9.60	42	93141	88.8270	ug/L	99
38) 1,1,1-Trichloroethane	9.85	97	485326	59.7216	ug/L	99
39) Cyclohexane	9.88	56	477670	53.9349	ug/L	99
40) 1,1-Dichloropropene	10.04	75	318122	54.8262	ug/L	98
41) Carbon Tetrachloride	10.18	117	494665	62.3364	ug/L	99
42) Tert-Amyl-Methyl ether	10.13	73	1012564	102.7898	ug/L	98

(#) = qualifier out of range (m) = manual integration
11M12016.D 8260WT.M Sat May 21 12:27:39 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\052116\11M12016.D Vial: 2
Acq On : 21 May 2016 12:00 Operator: JDS
Sample : WG569785-02 50ug/L CCV STD 8260 Inst : hpms11
Misc : 1,1 STD76227 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 21 12:27:38 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

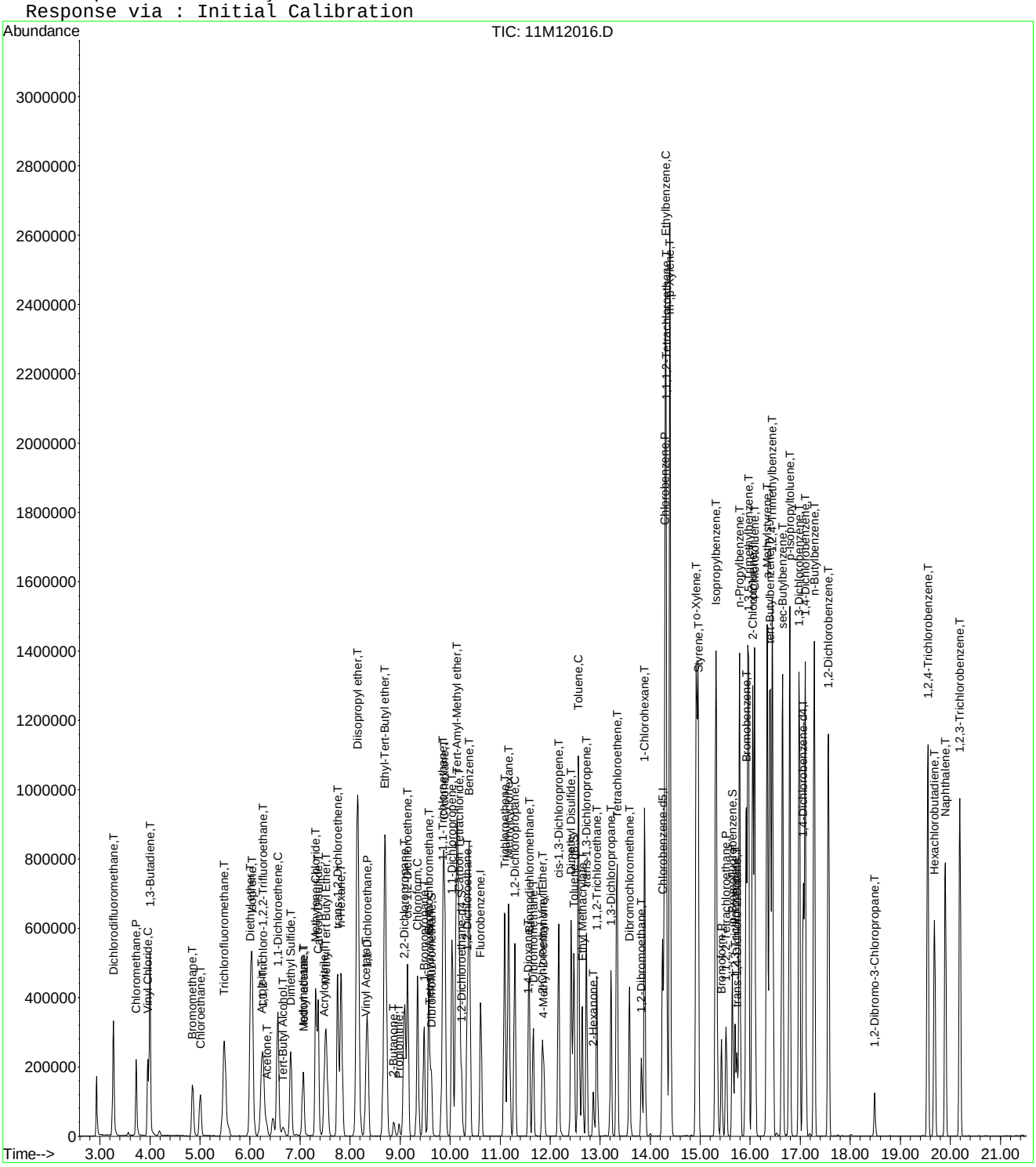
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	1,2-Dichloroethane	10.34	62	405475	60.4552	ug/L	98
45)	Benzene	10.38	78	815362	51.3314	ug/L	100
46)	Trichloroethene	11.09	130	279055	54.0493	ug/L	100
47)	Methylcyclohexane	11.17	83	336042	52.7391	ug/L	98
48)	1,2-Dichloropropane	11.29	63	224188	50.9868	ug/L	89
49)	1,4-Dioxane	11.56	88	4836	195.7259	ug/L	96
50)	Bromodichloromethane	11.58	83	364280	59.0149	ug/L	98
51)	Dibromomethane	11.66	93	131294	57.3013	ug/L	98
52)	2-Chloroethyl Vinyl Ether	11.85	63	107669	49.6837	ug/L	100
53)	4-Methyl-2-Pentanone	11.87	58	56948	46.5916	ug/L	95
54)	cis-1,3-Dichloropropene	12.17	75	348964	56.5220	ug/L	100
55)	Dimethyl Disulfide	12.42	79	198251	53.3618	ug/L	99
58)	Toluene	12.56	91	970374	50.9056	ug/L	99
59)	Ethyl Methacrylate	12.65	69	200898	49.3566	ug/L	96
60)	trans-1,3-Dichloropropene	12.73	75	331117	54.1166	ug/L	99
61)	1,1,2-Trichloroethane	12.93	97	165903	49.0813	ug/L	98
62)	2-Hexanone	12.86	43	115675	46.5956	ug/L	97
63)	1,3-Dichloropropane	13.21	76	273042	50.3016	ug/L	96
64)	Tetrachloroethene	13.34	164	230789	52.0631	ug/L	100
65)	Dibromochloromethane	13.59	129	290509	56.3472	ug/L	99
66)	1,2-Dibromoethane	13.82	107	170165	50.2469	ug/L	100
67)	1-Chlorohexane	13.89	91	324413	51.6195	ug/L	98
68)	Chlorobenzene	14.29	112	719943	51.5553	ug/L	99
69)	1,1,1,2-Tetrachloroethane	14.32	131	308548	54.6057	ug/L	100
70)	Ethylbenzene	14.31	106	362159	50.5757	ug/L	97
71)	m-,p-Xylene	14.39	106	883466	101.4853	ug/L	96
72)	o-Xylene	14.92	106	432666	51.0697	ug/L	96
73)	Styrene	14.96	104	745377	53.2512	ug/L	97
74)	Bromoform	15.43	173	170328	54.5086	ug/L	99
75)	Isopropylbenzene	15.31	105	1187192	52.9879	ug/L	100
77)	1,1,2,2-Tetrachloroethane	15.52	83	170406	46.3747	ug/L	99
79)	1,2,3-Trichloropropane	15.70	110	65413	47.4638	ug/L	91
80)	trans-1,4-Dichloro-2-Buten	15.74	53	79400	44.9086	ug/L	99
81)	n-Propylbenzene	15.79	91	1375145	50.3216	ug/L	100
82)	Bromobenzene	15.92	156	345704	48.2102	ug/L	99
83)	1,3,5-Trimethylbenzene	15.96	105	1042611	49.9970	ug/L	99
84)	2-Chlorotoluene	16.05	91	935282	48.8642	ug/L	100
85)	4-Chlorotoluene	16.09	91	864016	50.3941	ug/L	100
86)	a-Methylstyrene	16.34	118	555572	50.5014	ug/L	97
87)	tert-Butylbenzene	16.40	134	215949	48.8788	ug/L	96
88)	1,2,4-Trimethylbenzene	16.44	105	1082056	50.9562	ug/L	99
89)	sec-Butylbenzene	16.65	105	1219799	48.7146	ug/L	100
90)	p-Isopropyltoluene	16.79	119	1149769	49.9915	ug/L	99
91)	1,3-Dichlorobenzene	16.98	146	682398	49.2729	ug/L	99
92)	1,4-Dichlorobenzene	17.10	146	677185	48.2394	ug/L	99
93)	n-Butylbenzene	17.28	91	973067	48.0133	ug/L	100
94)	1,2-Dichlorobenzene	17.57	146	622864	49.3707	ug/L	99
95)	1,2-Dibromo-3-Chloropropan	18.49	75	37926	45.8395	ug/L	91
96)	1,2,4-Trichlorobenzene	19.55	180	437231	47.3622	ug/L	97
97)	Hexachlorobutadiene	19.69	225	158090	38.8718	ug/L	97
98)	Naphthalene	19.90	128	794840	46.3867	ug/L	99
99)	1,2,3-Trichlorobenzene	20.19	180	381020	44.9716	ug/L	97

(#) = qualifier out of range (m) = manual integration
11M12016.D 8260WT.M Sat May 21 12:27:39 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052116\11M12016.D Vial: 2
Acq On : 21 May 2016 12:00 Operator: JDS
Sample : WG569785-02 50ug/L CCV STD 8260 Inst : hpms11
Misc : 1,1 STD76227 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 21 12:27 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052116\11M12016.D Vial: 2
Acq On : 21 May 2016 12:00 Operator: JDS
Sample : WG569785-02 50ug/L CCV STD 8260 Inst : hpms11
Misc : 1,1 STD76227 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.0000	1.0000	0.0	79	0.00
2	T	Dichlorodifluoromethane	0.3917	0.4939	-26.1#	98	0.00
3	P	Chloromethane	0.3137	0.3202	-2.1	92	0.00
4	C	Vinyl Chloride	0.2605	0.3033	-16.4	96	0.00
5	T	1,3-Butadiene	0.2591	0.3301	-27.4#	97	0.00
6	T	Bromomethane	0.1791	0.1683	6.0	81	0.00
7	T	Chloroethane	0.1674	0.1754	-4.8	86	0.00
8	T	Trichlorofluoromethane	0.5193	0.6267	-20.7	100	0.00
9	T	Diethyl ether	0.1920	0.1645	14.3	69	0.00
10	T	Isoprene	0.3201	0.3300	-3.1	82	0.00
11	T	Acrolein	0.0228	0.0177	22.3	58	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.2520	0.2816	-11.7	91	0.01
13	T	Acetone	0.0594	0.0574	3.4	79	0.00
14	C	1,1-Dichloroethene	0.4577	0.5127	-12.0	92	0.00
15	T	Tert-Butyl Alcohol	0.0164	0.0165	-0.6	79	0.00
16	T	Dimethyl Sulfide	0.1828	0.1860	-1.7	79	0.00
17	T	Iodomethane	0.1615	0.2318	-43.5#	89	0.00
18	T	Methyl acetate	0.2006	0.1730	13.8	77	0.01
19	T	Methylene Chloride	0.2369	0.2424	-2.3	86	0.00
20	T	Carbon Disulfide	0.7662	0.8180	-6.8	83	0.00
21	T	Acrylonitrile	0.0796	0.0805	-1.2	79	0.00
22	T	Methyl Tert Butyl Ether	0.5908	0.6408	-8.5	87	0.00
23	T	trans-1,2-Dichloroethene	0.2533	0.2674	-5.6	88	0.01
24	T	n-Hexane	0.4219	0.4349	-3.1	80	0.00
25	T	Diisopropyl ether	1.0527	1.0577	-0.5	80	0.00
26	T	Vinyl Acetate	0.3793	0.3717	2.0	75	0.00
27	P	1,1-Dichloroethane	0.5082	0.5553	-9.3	89	0.00
28	T	Ethyl-Tert-Butyl ether	0.8568	0.8793	-2.6	82	0.00
29	T	2-Butanone	0.0897	0.0847	5.7	77	0.00
30	T	Propionitrile	0.0263	0.0255	2.9	75	0.00
31	T	2,2-Dichloropropane	0.3977	0.4839	-21.7	99	0.00
32	T	cis-1,2-Dichloroethene	0.2793	0.2946	-5.5	86	0.00
33	C	Chloroform	0.4991	0.5504	-10.3	93	0.00
34	T	1-Bromopropane	0.0432	0.0545	-26.3#	90	0.00
35	T	Bromochloromethane	0.1659	0.1926	-16.1	89	0.00
36	T	Tetrahydrofuran	0.0634	0.0563	11.2	73	0.00
37	S	Dibromofluoromethane	0.2736	0.3122	-14.1	92	0.00
38	T	1,1,1-Trichloroethane	0.4911	0.5867	-19.4	98	0.00
39	T	Cyclohexane	0.5353	0.5774	-7.9	83	0.00
40	T	1,1-Dichloropropene	0.3507	0.3845	-9.7	90	0.00
41	T	Carbon Tetrachloride	0.4796	0.5979	-24.7	100	0.00
42	T	Tert-Amyl-Methyl ether	0.5954	0.6120	-2.8	82	0.00
43	S	1,2-Dichloroethane-d4	0.3120	0.3570	-14.4	93	0.00
44	T	1,2-Dichloroethane	0.4054	0.4901	-20.9	97	0.00
45	T	Benzene	0.9600	0.9856	-2.7	86	0.00
46	T	Trichloroethene	0.3120	0.3373	-8.1	91	0.00
47	T	Methylcyclohexane	0.3851	0.4062	-5.5	80	0.00
48	C	1,2-Dichloropropane	0.2657	0.2710	-2.0	84	0.00
49	T	1,4-Dioxane	0.0014	0.0015	-4.3	82	0.01
50	T	Bromodichloromethane	0.3731	0.4403	-18.0	95	0.01
51	T	Dibromomethane	0.1385	0.1587	-14.6	92	0.01
52	T	2-Chloroethyl Vinyl Ether	0.1310	0.1301	0.6	81	0.01
53	T	4-Methyl-2-Pentanone	0.0739	0.0688	6.8	75	0.00
54	T	cis-1,3-Dichloropropene	0.3731	0.4218	-13.0	88	0.00

(#) = Out of Range
11M12016.D 8260WT.M Sat May 21 12:27:57 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\052116\11M12016.D Vial: 2
Acq On : 21 May 2016 12:00 Operator: JDS
Sample : WG569785-02 50ug/L CCV STD 8260 Inst : hpms11
Misc : 1,1 STD76227 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
55	T	Dimethyl Disulfide	0.2245	0.2396	-6.7	84	0.00
56	I	Chlorobenzene-d5	1.0000	1.0000	0.0	86	0.00
57	S	Toluene-d8	1.0862	1.1312	-4.1	92	0.00
58	C	Toluene	1.2656	1.2885	-1.8	89	0.00
59	T	Ethyl Methacrylate	0.2702	0.2668	1.3	80	0.00
60	T	trans-1,3-Dichloropropene	0.4062	0.4397	-8.2	90	0.00
61	T	1,1,2-Trichloroethane	0.2244	0.2203	1.8	85	0.00
62	T	2-Hexanone	0.1648	0.1536	6.8	80	0.00
63	T	1,3-Dichloropropane	0.3604	0.3626	-0.6	86	0.00
64	T	Tetrachloroethene	0.2943	0.3065	-4.1	92	0.00
65	T	Dibromochloromethane	0.3423	0.3858	-12.7	94	0.00
66	T	1,2-Dibromoethane	0.2248	0.2260	-0.5	87	0.00
67	T	1-Chlorohexane	0.4173	0.4308	-3.2	86	0.00
68	P	Chlorobenzene	0.9272	0.9560	-3.1	90	0.00
69	T	1,1,1,2-Tetrachloroethane	0.3751	0.4097	-9.2	95	0.00
70	C	Ethylbenzene	0.4754	0.4809	-1.2	89	0.00
71	T	m-,p-Xylene	0.5780	0.5866	-1.5	89	0.00
72	T	o-Xylene	0.5625	0.5745	-2.1	88	0.00
73	T	Styrene	0.9293	0.9898	-6.5	89	0.01
74	P	Bromoform	0.2075	0.2262	-9.0	93	0.00
75	T	Isopropylbenzene	1.4875	1.5764	-6.0	91	0.00
76	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	89	0.00
77	P	1,1,2,2-Tetrachloroethane	0.3893	0.3611	7.3	82	0.00
78	S	p-Bromofluorobenzene	0.7706	0.7593	1.5	95	0.00
79	T	1,2,3-Trichloropropane	0.1351	0.1386	-2.6	90	0.00
80	T	trans-1,4-Dichloro-2-Butene	0.1588	0.1683	-5.9	84	0.00
81	T	n-Propylbenzene	2.8953	2.9139	-0.6	90	0.00
82	T	Bromobenzene	0.7597	0.7325	3.6	91	0.00
83	T	1,3,5-Trimethylbenzene	2.2094	2.2093	0.0	91	0.00
84	T	2-Chlorotoluene	2.0279	1.9818	2.3	92	0.00
85	T	4-Chlorotoluene	1.8165	1.8308	-0.8	93	0.00
86	T	a-Methylstyrene	1.1656	1.1772	-1.0	85	0.00
87	T	tert-Butylbenzene	0.4681	0.4576	2.2	89	0.00
88	T	1,2,4-Trimethylbenzene	2.2498	2.2928	-1.9	92	0.00
89	T	sec-Butylbenzene	2.6529	2.5847	2.6	88	0.00
90	T	p-Isopropyltoluene	2.4367	2.4363	0.0	90	0.00
91	T	1,3-Dichlorobenzene	1.4673	1.4460	1.5	92	0.00
92	T	1,4-Dichlorobenzene	1.4873	1.4349	3.5	91	0.00
93	T	n-Butylbenzene	2.1472	2.0619	4.0	86	0.00
94	T	1,2-Dichlorobenzene	1.3366	1.3198	1.3	91	0.00
95	T	1,2-Dibromo-3-Chloropropane	0.0825	0.0804	2.6	89	0.00
96	T	1,2,4-Trichlorobenzene	0.9781	0.9265	5.3	85	0.00
97	T	Hexachlorobutadiene	0.4309	0.3350	22.3	72	0.00
98	T	Naphthalene	1.8154	1.6842	7.2	83	0.00
99	T	1,2,3-Trichlorobenzene	0.8976	0.8074	10.1	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
11M12016.D 8260WT.M Sat May 21 12:27:57 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\052116\11M12016.D Vial: 2
Acq On : 21 May 2016 12:00 Operator: JDS
Sample : WG569785-02 50ug/L CCV STD 8260 Inst : hpms11
Misc : 1,1 STD76227 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	79	0.00
2	T	Dichlorodifluoromethane	50.0000	63.0409	-26.1#	98	0.00
3	P	Chloromethane	50.0000	51.0401	-2.1	92	0.00
4	C	Vinyl Chloride	50.0000	58.2171	-16.4	96	0.00
5	T	1,3-Butadiene	50.0000	63.7112	-27.4#	97	0.00
6	T	Bromomethane	50.0000	46.9811	6.0	81	0.00
7	T	Chloroethane	50.0000	52.4072	-4.8	86	0.00
8	T	Trichlorofluoromethane	50.0000	60.3413	-20.7	100	0.00
9	T	Diethyl ether	100.0000	85.6703	14.3	69	0.00
10	T	Isoprene	50.0000	51.5562	-3.1	82	0.00
11	T	Acrolein	50.0000	35.4878	29.0#	58	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	55.8719	-11.7	91	0.01
13	T	Acetone	50.0000	48.3132	3.4	79	0.00
14	C	1,1-Dichloroethene	50.0000	56.0124	-12.0	92	0.00
15	T	Tert-Butyl Alcohol	200.0000	201.1770	-0.6	79	0.00
16	T	Dimethyl Sulfide	50.0000	50.8704	-1.7	79	0.00
17	T	Iodomethane	50.0000	55.3681	-10.7	89	0.00
18	T	Methyl acetate	50.0000	46.8400	6.3	77	0.01
19	T	Methylene Chloride	50.0000	51.1589	-2.3	86	0.00
20	T	Carbon Disulfide	50.0000	53.3796	-6.8	83	0.00
21	T	Acrylonitrile	50.0000	50.5773	-1.2	79	0.00
22	T	Methyl Tert Butyl Ether	50.0000	54.2336	-8.5	87	0.00
23	T	trans-1,2-Dichloroethene	50.0000	52.7807	-5.6	88	0.01
24	T	n-Hexane	50.0000	51.5481	-3.1	80	0.00
25	T	Diisopropyl ether	100.0000	100.4738	-0.5	80	0.00
26	T	Vinyl Acetate	50.0000	45.7020	8.6	75	0.00
27	P	1,1-Dichloroethane	50.0000	54.6266	-9.3	89	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	102.6270	-2.6	82	0.00
29	T	2-Butanone	50.0000	47.1599	5.7	77	0.00
30	T	Propionitrile	100.0000	97.1066	2.9	75	0.00
31	T	2,2-Dichloropropane	50.0000	60.8469	-21.7	99	0.00
32	T	cis-1,2-Dichloroethene	50.0000	52.7396	-5.5	86	0.00
33	C	Chloroform	50.0000	55.1344	-10.3	93	0.00
34	T	1-Bromopropane	50.0000	54.9075	-9.8	90	0.00
35	T	Bromochloromethane	50.0000	58.0580	-16.1	89	0.00
36	T	Tetrahydrofuran	100.0000	88.8269	11.2	73	0.00
37	S	Dibromofluoromethane	25.0000	28.5303	-14.1	92	0.00
38	T	1,1,1-Trichloroethane	50.0000	59.7216	-19.4	98	0.00
39	T	Cyclohexane	50.0000	53.9349	-7.9	83	0.00
40	T	1,1-Dichloropropene	50.0000	54.8262	-9.7	90	0.00
41	T	Carbon Tetrachloride	50.0000	62.3364	-24.7	100	0.00
42	T	Tert-Amyl-Methyl ether	100.0000	102.7898	-2.8	82	0.00
43	S	1,2-Dichloroethane-d4	25.0000	28.6049	-14.4	93	0.00
44	T	1,2-Dichloroethane	50.0000	60.4552	-20.9	97	0.00
45	T	Benzene	50.0000	51.3314	-2.7	86	0.00
46	T	Trichloroethene	50.0000	54.0493	-8.1	91	0.00
47	T	Methylcyclohexane	50.0000	52.7391	-5.5	80	0.00
48	C	1,2-Dichloropropane	50.0000	50.9868	-2.0	84	0.00
49	T	1,4-Dioxane	200.0000	195.7259	2.1	82	0.01
50	T	Bromodichloromethane	50.0000	59.0149	-18.0	95	0.01
51	T	Dibromomethane	50.0000	57.3013	-14.6	92	0.01
52	T	2-Chloroethyl Vinyl Ether	50.0000	49.6837	0.6	81	0.01
53	T	4-Methyl-2-Pentanone	50.0000	46.5916	6.8	75	0.00
54	T	cis-1,3-Dichloropropene	50.0000	56.5220	-13.0	88	0.00

(#) = Out of Range
11M12016.D 8260WT.M Sat May 21 12:27:59 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\052116\11M12016.D Vial: 2
Acq On : 21 May 2016 12:00 Operator: JDS
Sample : WG569785-02 50ug/L CCV STD 8260 Inst : hpms11
Misc : 1,1 STD76227 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	Dimethyl Disulfide	50.0000	53.3618	-6.7	84	0.00
56	I	Chlorobenzene-d5	25.0000	25.0000	0.0	86	0.00
57	S	Toluene-d8	25.0000	26.0341	-4.1	92	0.00
58	C	Toluene	50.0000	50.9056	-1.8	89	0.00
59	T	Ethyl Methacrylate	50.0000	49.3566	1.3	80	0.00
60	T	trans-1,3-Dichloropropene	50.0000	54.1165	-8.2	90	0.00
61	T	1,1,2-Trichloroethane	50.0000	49.0813	1.8	85	0.00
62	T	2-Hexanone	50.0000	46.5956	6.8	80	0.00
63	T	1,3-Dichloropropane	50.0000	50.3016	-0.6	86	0.00
64	T	Tetrachloroethene	50.0000	52.0631	-4.1	92	0.00
65	T	Dibromochloromethane	50.0000	56.3472	-12.7	94	0.00
66	T	1,2-Dibromoethane	50.0000	50.2469	-0.5	87	0.00
67	T	1-Chlorohexane	50.0000	51.6195	-3.2	86	0.00
68	P	Chlorobenzene	50.0000	51.5553	-3.1	90	0.00
69	T	1,1,1,2-Tetrachloroethane	50.0000	54.6057	-9.2	95	0.00
70	C	Ethylbenzene	50.0000	50.5757	-1.2	89	0.00
71	T	m-,p-Xylene	100.0000	101.4853	-1.5	89	0.00
72	T	o-Xylene	50.0000	51.0697	-2.1	88	0.00
73	T	Styrene	50.0000	53.2512	-6.5	89	0.01
74	P	Bromoform	50.0000	54.5086	-9.0	93	0.00
75	T	Isopropylbenzene	50.0000	52.9879	-6.0	91	0.00
76	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	89	0.00
77	P	1,1,2,2-Tetrachloroethane	50.0000	46.3747	7.3	82	0.00
78	S	p-Bromofluorobenzene	25.0000	24.6324	1.5	95	0.00
79	T	1,2,3-Trichloropropane	50.0000	47.4637	5.1	90	0.00
80	T	trans-1,4-Dichloro-2-Butene	50.0000	44.9085	10.2	84	0.00
81	T	n-Propylbenzene	50.0000	50.3216	-0.6	90	0.00
82	T	Bromobenzene	50.0000	48.2102	3.6	91	0.00
83	T	1,3,5-Trimethylbenzene	50.0000	49.9970	0.0	91	0.00
84	T	2-Chlorotoluene	50.0000	48.8642	2.3	92	0.00
85	T	4-Chlorotoluene	50.0000	50.3941	-0.8	93	0.00
86	T	a-Methylstyrene	50.0000	50.5014	-1.0	85	0.00
87	T	tert-Butylbenzene	50.0000	48.8788	2.2	89	0.00
88	T	1,2,4-Trimethylbenzene	50.0000	50.9562	-1.9	92	0.00
89	T	sec-Butylbenzene	50.0000	48.7146	2.6	88	0.00
90	T	p-Isopropyltoluene	50.0000	49.9915	0.0	90	0.00
91	T	1,3-Dichlorobenzene	50.0000	49.2729	1.5	92	0.00
92	T	1,4-Dichlorobenzene	50.0000	48.2394	3.5	91	0.00
93	T	n-Butylbenzene	50.0000	48.0133	4.0	86	0.00
94	T	1,2-Dichlorobenzene	50.0000	49.3707	1.3	91	0.00
95	T	1,2-Dibromo-3-Chloropropane	50.0000	45.8395	8.3	89	0.00
96	T	1,2,4-Trichlorobenzene	50.0000	47.3622	5.3	85	0.00
97	T	Hexachlorobutadiene	50.0000	38.8718	22.3	72	0.00
98	T	Naphthalene	50.0000	46.3867	7.2	83	0.00
99	T	1,2,3-Trichlorobenzene	50.0000	44.9716	10.1	84	0.00

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052116\17M021296.D Vial: 1
Acq On : 21 May 2016 14:41 Operator: jds
Sample : WG569788-02 50ug/L CCV STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:22:56 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	397986	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	300566	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	159477	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.980	111	110897	26.3090	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.236%			
34) 1,2-Dichloroethane-d4	4.643	65	98565	25.2891	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 101.156%			
47) Toluene-d8	6.577	98	413844	25.7824	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.130%			
66) p-Bromofluorobenzene	8.633	95	146902	26.6419	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 106.568%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.995	85	253055	43.7114	ug/L	100
3) Chloromethane	1.105	50	207370	40.0416	ug/L	100
4) Vinyl Chloride	1.146	62	230389	44.4489	ug/L	99
5) 1,3-Butadiene	1.154	54	193666	46.3503	ug/L	99
6) Bromomethane	1.322	94	115156	35.1025	ug/L	100
7) Chloroethane	1.392	64	100511	43.2490	ug/L	98
8) Trichlorofluoromethane	1.473	101	315153	45.9614	ug/L	100
9) Diethyl ether	1.667	59	123585	46.4815	ug/L	99
10) 1,1-Dichloroethene	1.783	61	285853	44.0654	ug/L	100
11) Carbon Disulfide	1.797	76	560337	45.5734	ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.815	101	175122	43.8995	ug/L	100
13) Iodomethane	1.875	142	205464	34.3131	ug/L	98
14) Acrolein	2.014	56	21450	45.5259	ug/L	100
15) Methylene Chloride	2.185	84	191312	44.0730	ug/L	100
16) Acetone	2.232	43	29790	47.3252	ug/L	99
17) trans-1,2-Dichloroethene	2.307	96	188793	44.6326	ug/L	99
18) Methyl acetate	2.330	43	94219	46.3206	ug/L #	99
19) Methyl Tert Butyl Ether	2.408	73	420797	45.9679	ug/L	100
20) 1,1-Dichloroethane	2.834	63	363206	45.8246	ug/L	100
21) Acrylonitrile	2.889	53	40329	46.6297	ug/L	98
22) Vinyl Acetate	3.117	86	17669	61.9281	ug/L	96
23) cis-1,2-Dichloroethene	3.395	96	220039	46.6525	ug/L	99
24) 2,2-Dichloropropane	3.514	77	301721	48.0468	ug/L	99
25) Cyclohexane	3.613	56	304357	45.3105	ug/L	99
26) Bromochloromethane	3.624	130	134144	46.7550	ug/L	100
27) Chloroform	3.743	83	362549	46.0477	ug/L	100
28) Carbon Tetrachloride	3.882	117	288706	48.4524	ug/L	100
30) 1,1,1-Trichloroethane	3.980	97	319933	45.5103	ug/L	100
31) 1,1-Dichloropropene	4.157	75	261063	45.4246	ug/L	100
32) 2-Butanone	4.180	43	46915	47.0920	ug/L	96
33) Benzene	4.472	78	796974	45.7375	ug/L	100
35) 1,2-Dichloroethane	4.727	62	225443	45.6893	ug/L	100
36) Methylcyclohexane	5.138	83	301838	43.5226	ug/L	99
37) Trichloroethene	5.170	130	244054	41.4289	ug/L	99
38) Dibromomethane	5.596	93	108971	45.9370	ug/L	99
39) 1,2-Dichloropropane	5.703	63	211287	46.0231	ug/L	100
40) Bromodichloromethane	5.796	83	270395	48.5162	ug/L	100
41) 1,4-Dioxane	6.013	88	2212	96.5075	ug/L	99
42) 2-Chloroethyl Vinyl Ether	6.395	63	76771	46.3460	ug/L	99
43) cis-1,3-Dichloropropene	6.412	75	305650	50.0151	ug/L	100
44) 4-Methyl-2-Pentanone	7.003	58	40908	46.4570	ug/L	98
45) trans-1,3-Dichloropropene	7.018	75	250033	50.4179	ug/L	99
48) Toluene	6.624	91	881618	46.1293	ug/L	100
49) Tetrachloroethene	6.957	166	243641	43.8364	ug/L	100
50) 1,1,2-Trichloroethane	7.148	97	148128	46.8459	ug/L	99
51) Dibromochloromethane	7.290	129	205255	46.4199	ug/L	100

Data File : D:\MassHunter\GCMS\1\data\052116\17M021296.D Vial: 1
Acq On : 21 May 2016 14:41 Operator: jds
Sample : WG569788-02 50ug/L CCV STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:22:56 2016

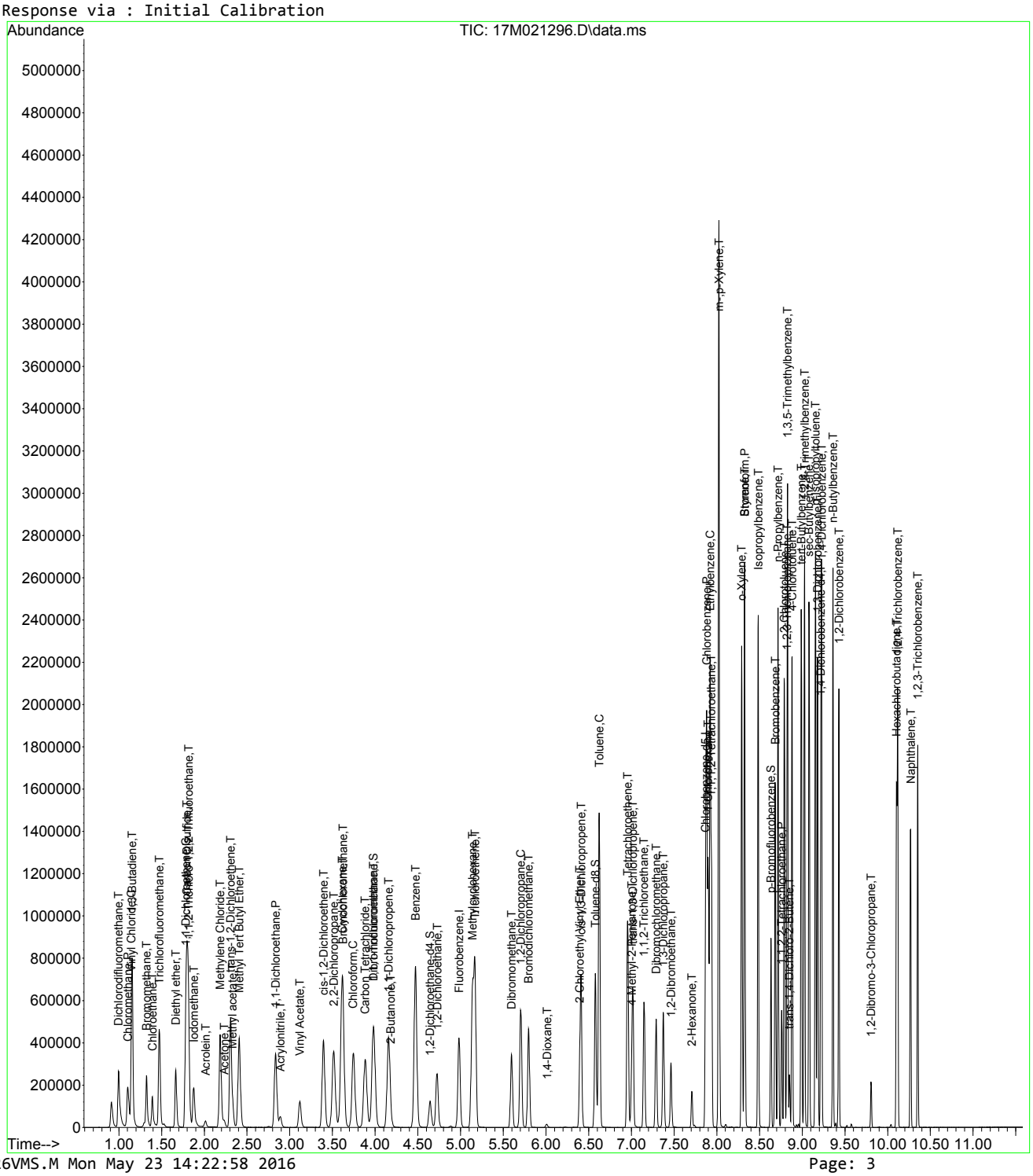
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,3-Dichloropropane	7.374	76	235533	46.3156	ug/L		99
53) 1,2-Dibromoethane	7.463	107	148130	46.8256	ug/L		100
54) 2-Hexanone	7.707	43	73192	46.3617	ug/L		100
55) Chlorobenzene	7.880	112	573808	45.6914	ug/L		99
56) 1-Chlorohexane	7.898	69	49298	47.4156	ug/L		99
57) Ethylbenzene	7.921	106	296165	44.8388	ug/L		100
58) 1,1,1,2-Tetrachloroethane	7.935	131	213698	48.7471	ug/L		100
59) m-,p-Xylene	8.025	106	718078	91.8154	ug/L		99
60) o-Xylene	8.291	106	346387	45.1286	ug/L		99
61) Styrene	8.326	104	585168	47.8028	ug/L		100
62) Bromoform	8.326	173	129042	45.4174	ug/L		99
63) Isopropylbenzene	8.485	105	877256	44.1184	ug/L		100
65) 1,3,5-Trimethylbenzene	8.827	105	741711	45.5614	ug/L		100
67) Bromobenzene	8.685	156	257886	46.3270	ug/L		100
68) n-Propylbenzene	8.717	91	993896	45.7820	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.760	83	137533	56.0762	ug/L		100
70) 2-Chlorotoluene	8.789	91	613231	45.7937	ug/L		100
71) 1,2,3-Trichloropropane	8.821	110	42990	47.3727	ug/L		98
72) trans-1,4-Dichloro-2-B...	8.850	53	22583	48.4053	ug/L	#	92
73) 1,2,4-Trimethylbenzene	9.027	105	749237	45.9910	ug/L		100
74) 4-Chlorotoluene	8.882	91	642871	46.3073	ug/L		99
75) tert-Butylbenzene	8.989	134	135195	44.1290	ug/L		99
76) sec-Butylbenzene	9.079	105	884339	43.6976	ug/L		100
77) p-Isopropyltoluene	9.154	119	760130	45.1420	ug/L		100
78) 1,3-Dichlorobenzene	9.180	146	462894	45.7322	ug/L		100
79) 1,4-Dichlorobenzene	9.227	146	452953	43.3656	ug/L		100
80) n-Butylbenzene	9.360	91	705001	44.9197	ug/L		100
81) 1,2-Dichlorobenzene	9.429	146	422707	44.5501	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.806	75	24497	50.3006	ug/L		97
83) Hexachlorobutadiene	10.104	225	163516	44.3473	ug/L		100
84) 1,2,4-Trichlorobenzene	10.118	180	327933	46.6631	ug/L		99
85) Naphthalene	10.269	128	541113	50.4543	ug/L		100
86) 1,2,3-Trichlorobenzene	10.353	180	286798	46.5402	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052116\17M021296.D Vial: 1
Acq On : 21 May 2016 14:41 Operator: jds
Sample : WG569788-02 50ug/L CCV STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:22:56 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\052116\17M021296.D Vial: 1
Acq On : 21 May 2016 14:41 Operator: jds
Sample : WG569788-02 50ug/L CCV STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 14:53:27 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:56:06 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	103	0.000
2	T	Dichlorodifluoromethane	0.364	0.318	12.6	83	0.000
3	P	Chloromethane	0.325	0.261	19.7	82	0.000
4	C	Vinyl Chloride	0.326	0.289	11.3#	88	0.000
5	T	1,3-Butadiene	0.262	0.243	7.3	89	0.000
6	T	Bromomethane	0.206	0.145	29.6#	74	0.000
7	T	Chloroethane	0.146	0.126	13.7	88	0.000
8	T	Trichlorofluoromethane	0.431	0.396	8.1	87	0.000
9	T	Diethyl ether	0.167	0.155	7.2	95	0.000
10	C	1,1-Dichloroethene	0.407	0.359	11.8#	90	0.000
11	T	Carbon Disulfide	0.772	0.704	8.8	90	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.251	0.220	12.4	86	0.000
13	T	Iodomethane	0.294	0.258	12.2	75	0.000
14	T	Acrolein	0.030	0.027	10.0	96	0.000
15	T	Methylene Chloride	0.273	0.240	12.1	92	0.000
16	T	Acetone	0.040	0.037	7.5	98	0.000
17	T	trans-1,2-Dichloroethene	0.266	0.237	10.9	92	0.000
18	T	Methyl acetate	0.128	0.118	7.8	93	0.000
19	T	Methyl Tert Butyl Ether	0.575	0.529	8.0	95	0.000
20	P	1,1-Dichloroethane	0.498	0.456	8.4	92	0.000
21	T	Acrylonitrile	0.054	0.051	5.6	97	0.000
22	T	Vinyl Acetate	0.017	0.022	-29.4#	149	0.000
23	T	cis-1,2-Dichloroethene	0.296	0.276	6.8	94	0.000
24	T	2,2-Dichloropropane	0.394	0.379	3.8	93	0.000
25	T	Cyclohexane	0.422	0.382	9.5	87	0.000
26	T	Bromochloromethane	0.180	0.169	6.1	94	0.000
27	C	Chloroform	0.495	0.455	8.1#	93	0.000
28	T	Carbon Tetrachloride	0.374	0.363	2.9	90	0.000
29	S	Dibromofluoromethane	0.265	0.279	-5.3	106	0.000
30	T	1,1,1-Trichloroethane	0.442	0.402	9.0	91	0.000
31	T	1,1-Dichloropropene	0.361	0.328	9.1	91	0.000
32	T	2-Butanone	0.063	0.059	6.3	102	0.000
33	T	Benzene	1.095	1.001	8.6	92	0.000
34	S	1,2-Dichloroethane-d4	0.245	0.248	-1.2	104	0.000
35	T	1,2-Dichloroethane	0.310	0.283	8.7	94	0.000
36	T	Methylcyclohexane	0.436	0.379	13.1	84	0.000
37	T	Trichloroethene	0.370	0.307	17.0	86	0.000
38	T	Dibromomethane	0.149	0.137	8.1	94	0.000
39	C	1,2-Dichloropropane	0.288	0.265	8.0#	93	0.000
40	T	Bromodichloromethane	0.350	0.340	2.9	95	0.000
41	T	1,4-Dioxane	0.001	0.001	0.0	105	0.000
42	T	2-Chloroethyl Vinyl Ether	0.091	0.096	-5.5	108	0.000
43	T	cis-1,3-Dichloropropene	0.384	0.384	0.0	96	0.000
44	T	4-Methyl-2-Pentanone	0.055	0.051	7.3	101	0.000
45	T	trans-1,3-Dichloropropene	0.312	0.314	-0.6	97	0.000
46	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.000
47	S	Toluene-d8	1.335	1.377	-3.1	102	0.000
48	C	Toluene	1.590	1.467	7.7#	92	0.000
49	T	Tetrachloroethene	0.462	0.405	12.3	90	0.000
50	T	1,1,2-Trichloroethane	0.263	0.246	6.5	97	0.000
51	T	Dibromochloromethane	0.331	0.341	-3.0	97	0.000
52	T	1,3-Dichloropropane	0.423	0.392	7.3	96	0.000
53	T	1,2-Dibromoethane	0.263	0.246	6.5	96	0.000
54	T	2-Hexanone	0.131	0.122	6.9	104	0.000
55	P	Chlorobenzene	1.045	0.955	8.6	94	0.000
56	T	1-Chlorohexane	0.086	0.082	4.7	91	0.000
57	C	Ethylbenzene	0.549	0.493	10.2#	91	0.000

Data File : D:\MassHunter\GCMS\1\data\052116\17M021296.D Vial: 1
Acq On : 21 May 2016 14:41 Operator: jds
Sample : WG569788-02 50ug/L CCV STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 14:53:27 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:56:06 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
58	T	1,1,1,2-Tetrachloroethane	0.365	0.355	2.7	95	0.000
59	T	m-,p-Xylene	0.651	0.597	8.3	92	0.000
60	T	o-Xylene	0.638	0.576	9.7	92	0.000
61	T	Styrene	1.018	0.973	4.4	95	0.000
62	P	Bromoform	0.201	0.215	-7.0	100	0.000
63	T	Isopropylbenzene	1.654	1.459	11.8	88	0.000
64	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.000
65	T	1,3,5-Trimethylbenzene	2.552	2.325	8.9	89	0.000
66	S	p-Bromofluorobenzene	0.864	0.921	-6.6	104	0.000
67	T	Bromobenzene	0.873	0.809	7.3	95	0.000
68	T	n-Propylbenzene	3.403	3.116	8.4	89	0.000
69	P	1,1,2,2-Tetrachloroethane	0.326	0.431	-32.2#	138	0.000
70	T	2-Chlorotoluene	2.099	1.923	8.4	91	0.000
71	T	1,2,3-Trichloropropane	0.142	0.135	4.9	99	0.000
72	T	trans-1,4-Dichloro-2-Butene	0.068	0.071	-4.4	108	0.000
73	T	1,2,4-Trimethylbenzene	2.554	2.349	8.0	90	0.000
74	T	4-Chlorotoluene	2.176	2.016	7.4	92	0.000
75	T	tert-Butylbenzene	0.480	0.424	11.7	87	0.000
76	T	sec-Butylbenzene	3.173	2.773	12.6	85	0.000
77	T	p-Isopropyltoluene	2.640	2.383	9.7	87	0.000
78	T	1,3-Dichlorobenzene	1.587	1.451	8.6	94	0.000
79	T	1,4-Dichlorobenzene	1.637	1.420	13.3	94	0.000
80	T	n-Butylbenzene	2.460	2.210	10.2	87	0.000
81	T	1,2-Dichlorobenzene	1.487	1.325	10.9	95	0.000
82	T	1,2-Dibromo-3-Chloropropane	0.076	0.077	-1.3	113	0.000
83	T	Hexachlorobutadiene	0.578	0.513	11.2	87	0.000
84	T	1,2,4-Trichlorobenzene	1.102	1.028	6.7	98	0.000
85	T	Naphthalene	1.681	1.697	-1.0	103	0.000
86	T	1,2,3-Trichlorobenzene	0.966	0.899	6.9	98	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

Data File : D:\MassHunter\GCMS\1\data\052116\17M021296.D Vial: 1
Acq On : 21 May 2016 14:41 Operator: jds
Sample : WG569788-02 50ug/L CCV STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 14:53:27 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:56:06 2016
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.000	25.000	0.0	103	0.000
2	T	Dichlorodifluoromethane	50.000	43.711	12.6	83	0.000
3	P	Chloromethane	50.000	40.042	19.9	82	0.000
4	C	Vinyl Chloride	50.000	44.449	11.1#	88	0.000
5	T	1,3-Butadiene	50.000	46.350	7.3	89	0.000
6	T	Bromomethane	50.000	35.102	29.8#	74	0.000
7	T	Chloroethane	50.000	43.249	13.5	88	0.000
8	T	Trichlorofluoromethane	50.000	45.961	8.1	87	0.000
9	T	Diethyl ether	50.000	46.481	7.0	95	0.000
10	C	1,1-Dichloroethene	50.000	44.065	11.9#	90	0.000
11	T	Carbon Disulfide	50.000	45.573	8.9	90	0.000
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	43.900	12.2	86	0.000
13	T	Iodomethane	50.000	34.313	31.4#	75	0.000
14	T	Acrolein	50.000	45.526	8.9	96	0.000
15	T	Methylene Chloride	50.000	44.073	11.9	92	0.000
16	T	Acetone	50.000	47.325	5.3	98	0.000
17	T	trans-1,2-Dichloroethene	50.000	44.633	10.7	92	0.000
18	T	Methyl acetate	50.000	46.321	7.4	93	0.000
19	T	Methyl Tert Butyl Ether	50.000	45.968	8.1	95	0.000
20	P	1,1-Dichloroethane	50.000	45.825	8.3	92	0.000
21	T	Acrylonitrile	50.000	46.630	6.7	97	0.000
22	T	Vinyl Acetate	50.000	61.928	-23.9	149	0.000
23	T	cis-1,2-Dichloroethene	50.000	46.652	6.7	94	0.000
24	T	2,2-Dichloropropane	50.000	48.047	3.9	93	0.000
25	T	Cyclohexane	50.000	45.311	9.4	87	0.000
26	T	Bromochloromethane	50.000	46.755	6.5	94	0.000
27	C	Chloroform	50.000	46.048	7.9#	93	0.000
28	T	Carbon Tetrachloride	50.000	48.452	3.1	90	0.000
29	S	Dibromofluoromethane	25.000	26.309	-5.2	106	0.000
30	T	1,1,1-Trichloroethane	50.000	45.510	9.0	91	0.000
31	T	1,1-Dichloropropene	50.000	45.425	9.2	91	0.000
32	T	2-Butanone	50.000	47.092	5.8	102	0.000
33	T	Benzene	50.000	45.738	8.5	92	0.000
34	S	1,2-Dichloroethane-d4	25.000	25.289	-1.2	104	0.000
35	T	1,2-Dichloroethane	50.000	45.689	8.6	94	0.000
36	T	Methylcyclohexane	50.000	43.523	13.0	84	0.000
37	T	Trichloroethene	50.000	41.429	17.1	86	0.000
38	T	Dibromomethane	50.000	45.937	8.1	94	0.000
39	C	1,2-Dichloropropane	50.000	46.023	8.0#	93	0.000
40	T	Bromodichloromethane	50.000	48.516	3.0	95	0.000
41	T	1,4-Dioxane	100.000	96.507	3.5	105	0.000
42	T	2-Chloroethyl Vinyl Ether	50.000	46.346	7.3	108	0.000
43	T	cis-1,3-Dichloropropene	50.000	50.015	-0.0	96	0.000
44	T	4-Methyl-2-Pentanone	50.000	46.457	7.1	101	0.000
45	T	trans-1,3-Dichloropropene	50.000	50.418	-0.8	97	0.000
46	I	Chlorobenzene-d5	25.000	25.000	0.0	103	0.000
47	S	Toluene-d8	25.000	25.782	-3.1	102	0.000
48	C	Toluene	50.000	46.129	7.7#	92	0.000
49	T	Tetrachloroethene	50.000	43.836	12.3	90	0.000
50	T	1,1,2-Trichloroethane	50.000	46.846	6.3	97	0.000
51	T	Dibromochloromethane	50.000	45.385	9.2	97	0.000
52	T	1,3-Dichloropropane	50.000	46.316	7.4	96	0.000
53	T	1,2-Dibromoethane	50.000	46.826	6.3	96	0.000
54	T	2-Hexanone	50.000	46.362	7.3	104	0.000
55	P	Chlorobenzene	50.000	45.691	8.6	94	0.000
56	T	1-Chlorohexane	50.000	47.416	5.2	91	0.000
57	C	Ethylbenzene	50.000	44.839	10.3#	91	0.000

Data File : D:\MassHunter\GCMS\1\data\052116\17M021296.D Vial: 1
Acq On : 21 May 2016 14:41 Operator: jds
Sample : WG569788-02 50ug/L CCV STD 8260 Inst : HPMS17
Misc : 1,1 STD76229 Multiplr: 1.00
Integrator: RTE
Quant Time: May 21 14:53:27 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 10:56:06 2016
Response via : Initial Calibration

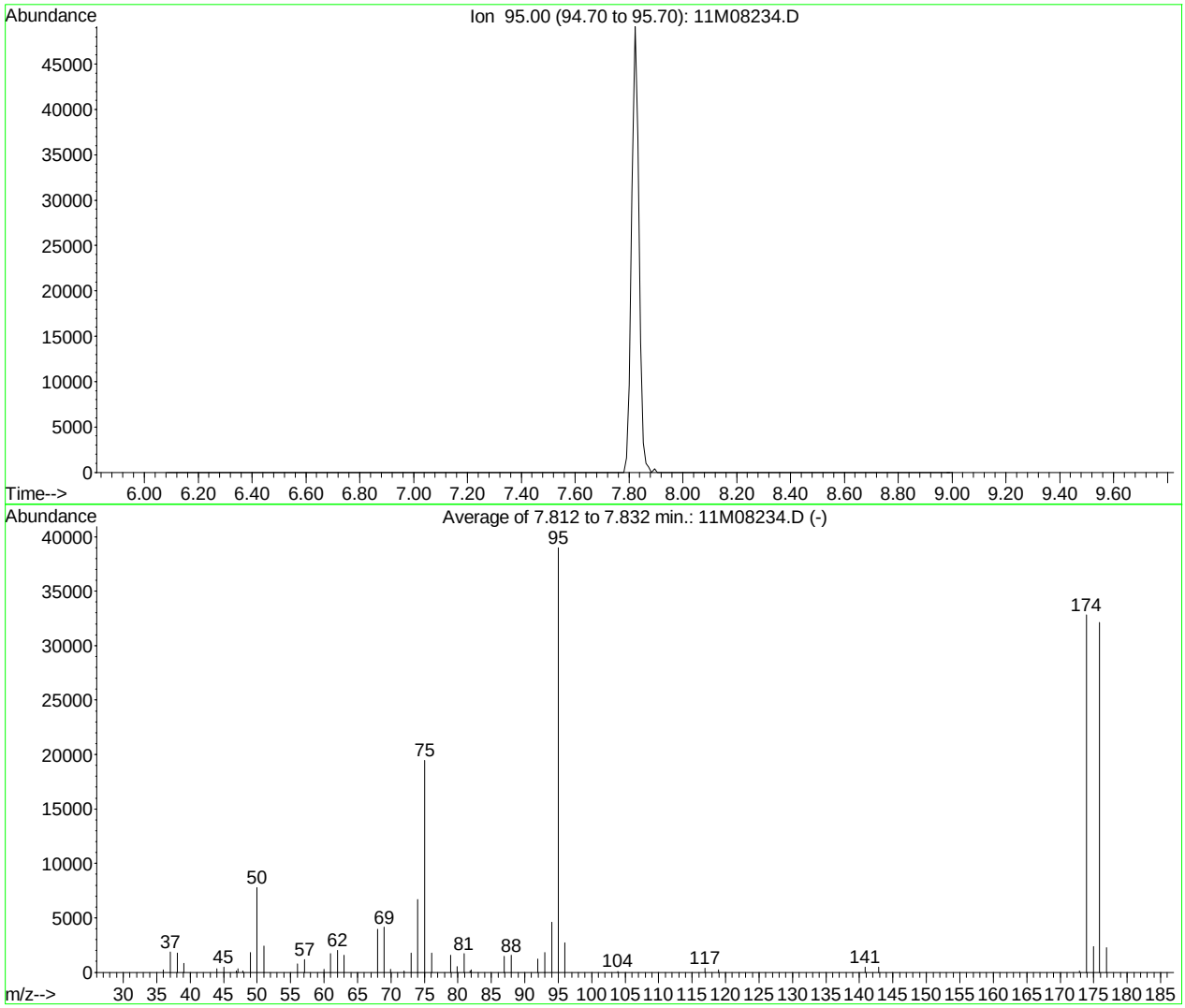
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.500min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
58	T	1,1,1,2-Tetrachloroethane	50.000	48.747	2.5	95	0.000
59	T	m-,p-Xylene	100.000	91.815	8.2	92	0.000
60	T	o-Xylene	50.000	45.129	9.7	92	0.000
61	T	Styrene	50.000	47.803	4.4	95	0.000
62	P	Bromoform	50.000	43.849	12.3	100	0.000
63	T	Isopropylbenzene	50.000	44.118	11.8	88	0.000
64	I	1,4-Dichlorobenzene-d4	25.000	25.000	0.0	101	0.000
65	T	1,3,5-Trimethylbenzene	50.000	45.561	8.9	89	0.000
66	S	p-Bromofluorobenzene	25.000	26.642	-6.6	104	0.000
67	T	Bromobenzene	50.000	46.327	7.3	95	0.000
68	T	n-Propylbenzene	50.000	45.782	8.4	89	0.000
69	P	1,1,2,2-Tetrachloroethane	50.000	56.076	-12.2	138	0.000
70	T	2-Chlorotoluene	50.000	45.794	8.4	91	0.000
71	T	1,2,3-Trichloropropane	50.000	47.373	5.3	99	0.000
72	T	trans-1,4-Dichloro-2-Butene	50.000	48.405	3.2	108	0.000
73	T	1,2,4-Trimethylbenzene	50.000	45.991	8.0	90	0.000
74	T	4-Chlorotoluene	50.000	46.307	7.4	92	0.000
75	T	tert-Butylbenzene	50.000	44.129	11.7	87	0.000
76	T	sec-Butylbenzene	50.000	43.698	12.6	85	0.000
77	T	p-Isopropyltoluene	50.000	45.142	9.7	87	0.000
78	T	1,3-Dichlorobenzene	50.000	45.732	8.5	94	0.000
79	T	1,4-Dichlorobenzene	50.000	43.366	13.3	94	0.000
80	T	n-Butylbenzene	50.000	44.920	10.2	87	0.000
81	T	1,2-Dichlorobenzene	50.000	44.550	10.9	95	0.000
82	T	1,2-Dibromo-3-Chloropropane	50.000	50.301	-0.6	113	0.000
83	T	Hexachlorobutadiene	50.000	44.347	11.3	87	0.000
84	T	1,2,4-Trichlorobenzene	50.000	46.663	6.7	98	0.000
85	T	Naphthalene	50.000	50.454	-0.9	103	0.000
86	T	1,2,3-Trichlorobenzene	50.000	46.540	6.9	98	0.000

(#) = Out of Range SPCC's out = 0 CCC's out = 6

2.1.1.5 Raw QC Data

Data File : C:\MSDCHEM\1\DATA\061415\11M08234.D Vial: 1
Acq On : 14 Jun 2015 9:34 Operator: TMB /DLW
Sample : WG527475-01 50ng BFB STD Inst : hpms11
Misc : 1,1 STD70707 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 06/13/15 HPMS11



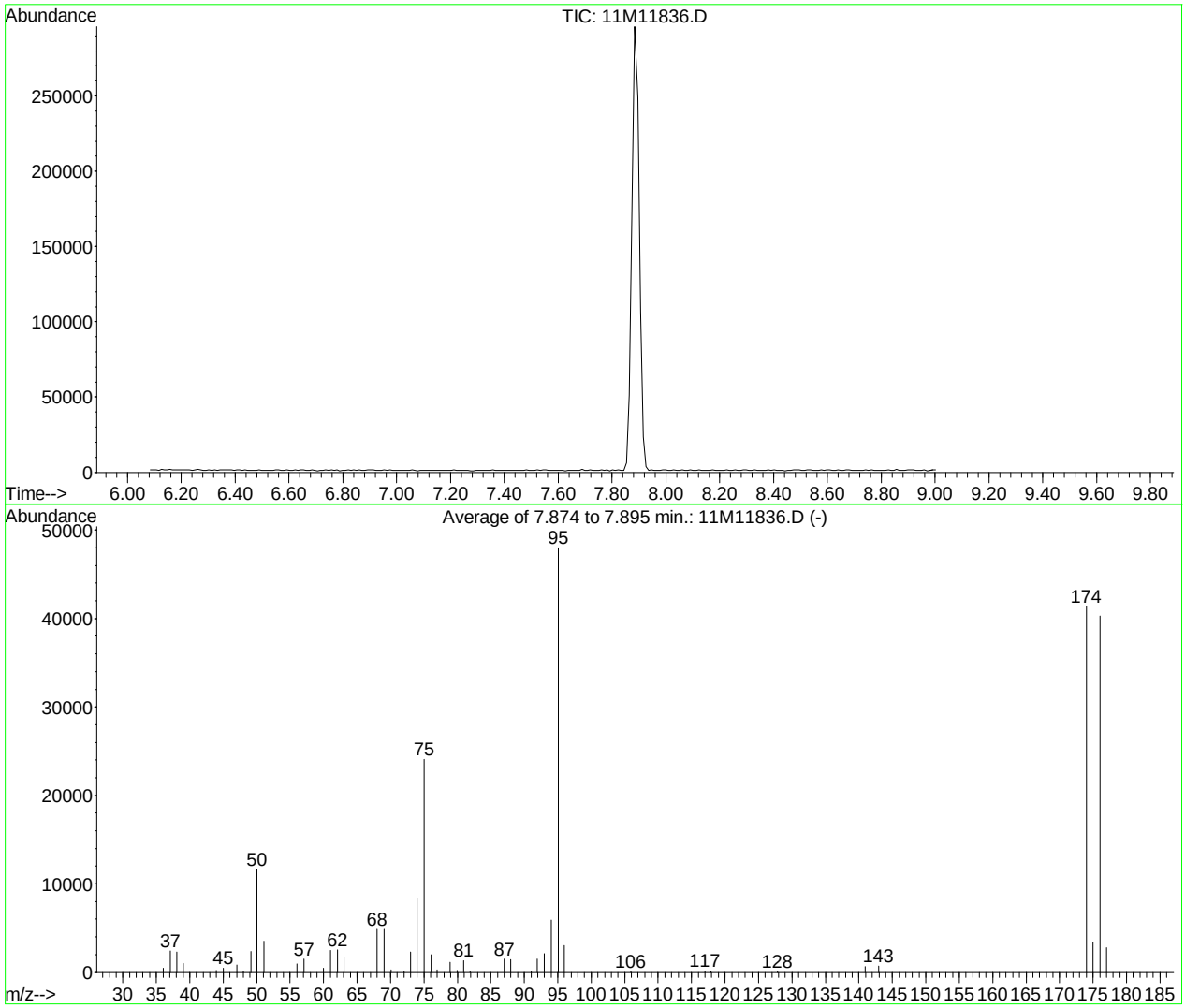
AutoFind: Scans 168, 169, 170; Background Corrected with Scan 163

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	7754	PASS
75	95	30	60	49.9	19472	PASS
95	95	100	100	100.0	38997	PASS
96	95	5	9	7.0	2731	PASS
173	174	0.00	2	0.3	111	PASS
174	95	50	100	84.2	32837	PASS
175	174	5	9	7.2	2357	PASS
176	174	95	101	97.9	32146	PASS
177	176	5	9	7.1	2284	PASS

11M08234.D 8260WTR.M Sun Jun 14 09:44:09 2015

BFB

Data File : C:\MSDCHEM\1\DATA\051316\11M11836.D Vial: 2
Acq On : 13 May 2016 14:15 Operator: JDS
Sample : WG568769-01 50ng BFB STD 8260 Inst : hpms11
Misc : 1,1 STD76034 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11



AutoFind: Scans 174, 175, 176; Background Corrected with Scan 169

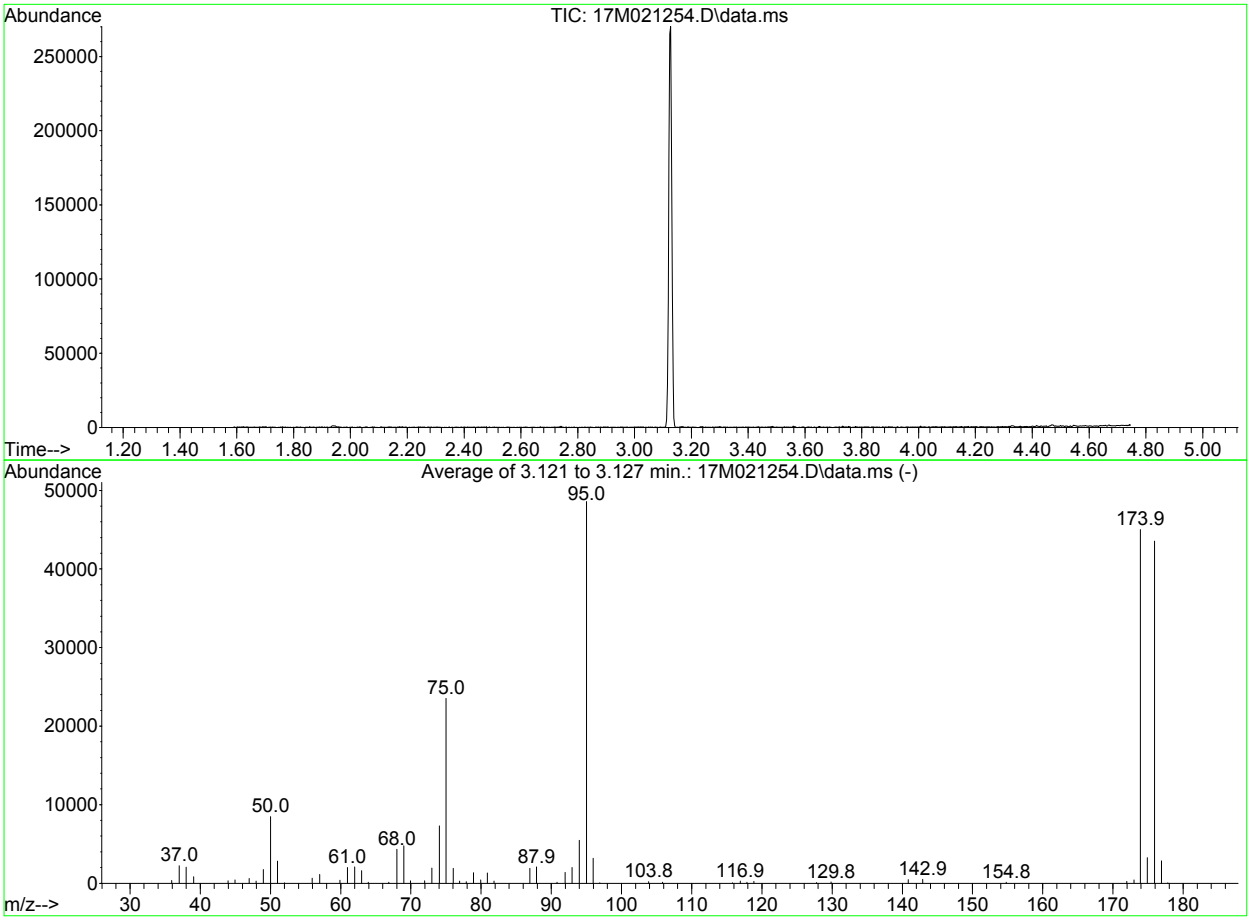
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.2	11638	PASS
75	95	30	60	50.2	24088	PASS
95	95	100	100	100.0	48016	PASS
96	95	5	9	6.3	3008	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	86.2	41402	PASS
175	174	5	9	8.3	3421	PASS
176	174	95	101	97.3	40288	PASS
177	176	5	9	6.9	2789	PASS

11M11836.D 8260WT.M Tue May 17 14:18:03 2016

Data Path : D:\MassHunter\GCMS\1\data\052016\
Data File : 17M021254.D
Acq On : 20 May 2016 15:35
Operator : ADC
Sample : WG569734-01 50ng BFB STD 8260
Misc : 1,1 STD76034
ALS Vial : 1 Sample Multiplier: 1

Integration File: lscint.p

Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
Last Update : Sat May 21 11:03:39 2016



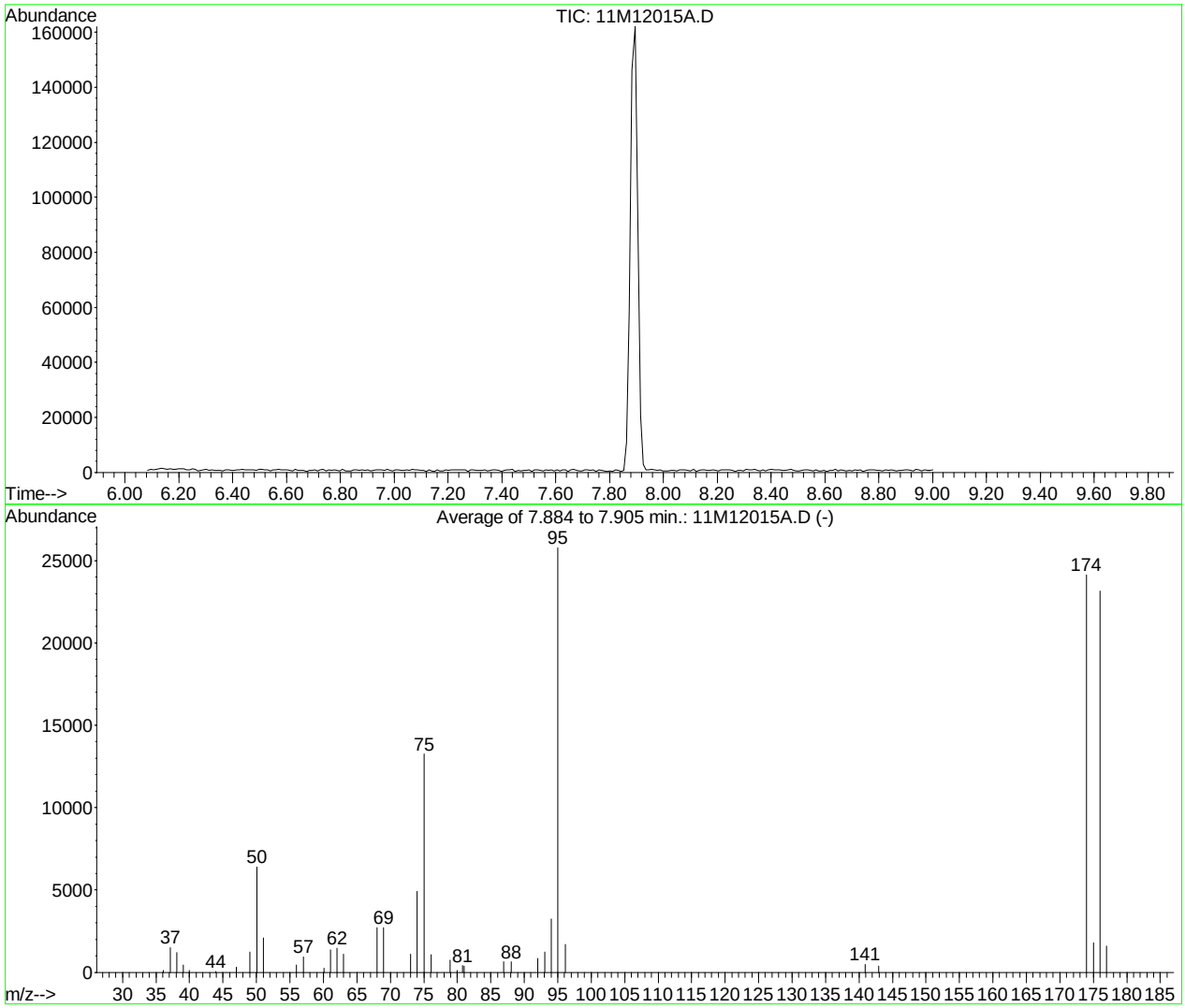
AutoFind: Scans 530, 531, 532; Background Corrected with Scan 522

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	8486	PASS
75	95	30	60	48.4	23525	PASS
95	95	100	100	100.0	48608	PASS
96	95	5	9	6.5	3178	PASS
173	174	0.00	2	1.0	436	PASS
174	95	50	100	92.6	45024	PASS
175	174	5	9	7.3	3274	PASS
176	174	95	101	96.7	43557	PASS
177	176	5	9	6.5	2838	PASS

826VMS.M Mon May 23 09:51:33 2016 Page: 1

BFB

Data File : C:\MSDCHEM\1\DATA\052116\11M12015A.D Vial: 1
Acq On : 21 May 2016 11:36 Operator: JDS
Sample : WG569785-01 50ng BFB STD 8260 Inst : hpms11
Misc : 1,1 STD76034 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11



AutoFind: Scans 175, 176, 177; Background Corrected with Scan 169

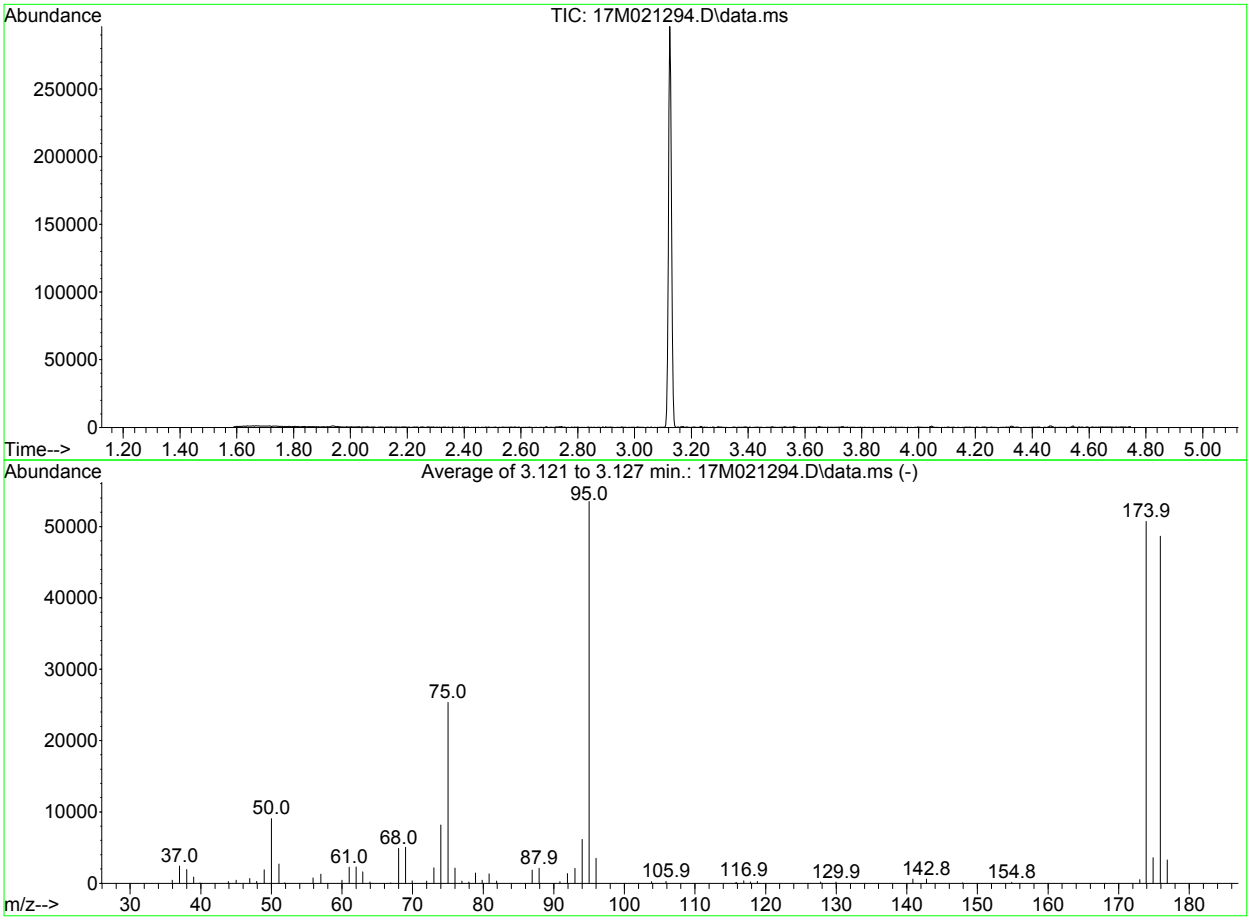
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.8	6408	PASS
75	95	30	60	51.4	13250	PASS
95	95	100	100	100.0	25788	PASS
96	95	5	9	6.5	1682	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	93.6	24141	PASS
175	174	5	9	7.4	1789	PASS
176	174	95	101	95.9	23154	PASS
177	176	5	9	7.0	1611	PASS

11M12015A.D 8260WT.M Tue May 24 12:01:04 2016

Data Path : D:\MassHunter\GCMS\1\data\052116\
Data File : 17M021294.D
Acq On : 21 May 2016 13:56
Operator : jds
Sample : WG569788-01 50ng BFB STD 8260
Misc : 1,1 STD76034
ALS Vial : 1 Sample Multiplier: 1

Integration File: lscint.p

Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
Last Update : Sat May 21 11:03:39 2016



AutoFind: Scans 530, 531, 532; Background Corrected with Scan 522

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	9055	PASS
75	95	30	60	47.3	25336	PASS
95	95	100	100	100.0	53523	PASS
96	95	5	9	6.6	3511	PASS
173	174	0.00	2	1.0	525	PASS
174	95	50	100	94.7	50707	PASS
175	174	5	9	7.1	3582	PASS
176	174	95	101	95.9	48648	PASS
177	176	5	9	6.7	3263	PASS

826VMS.M Sun May 22 12:43:26 2016 Page: 1

Data File : C:\MSDCHEM\1\DATA\052116\11M12018.D Vial: 4
Acq On : 21 May 2016 13:05 Operator: JDS
Sample : WG569786-01 BLANK STD 8260 Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 09:25:58 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

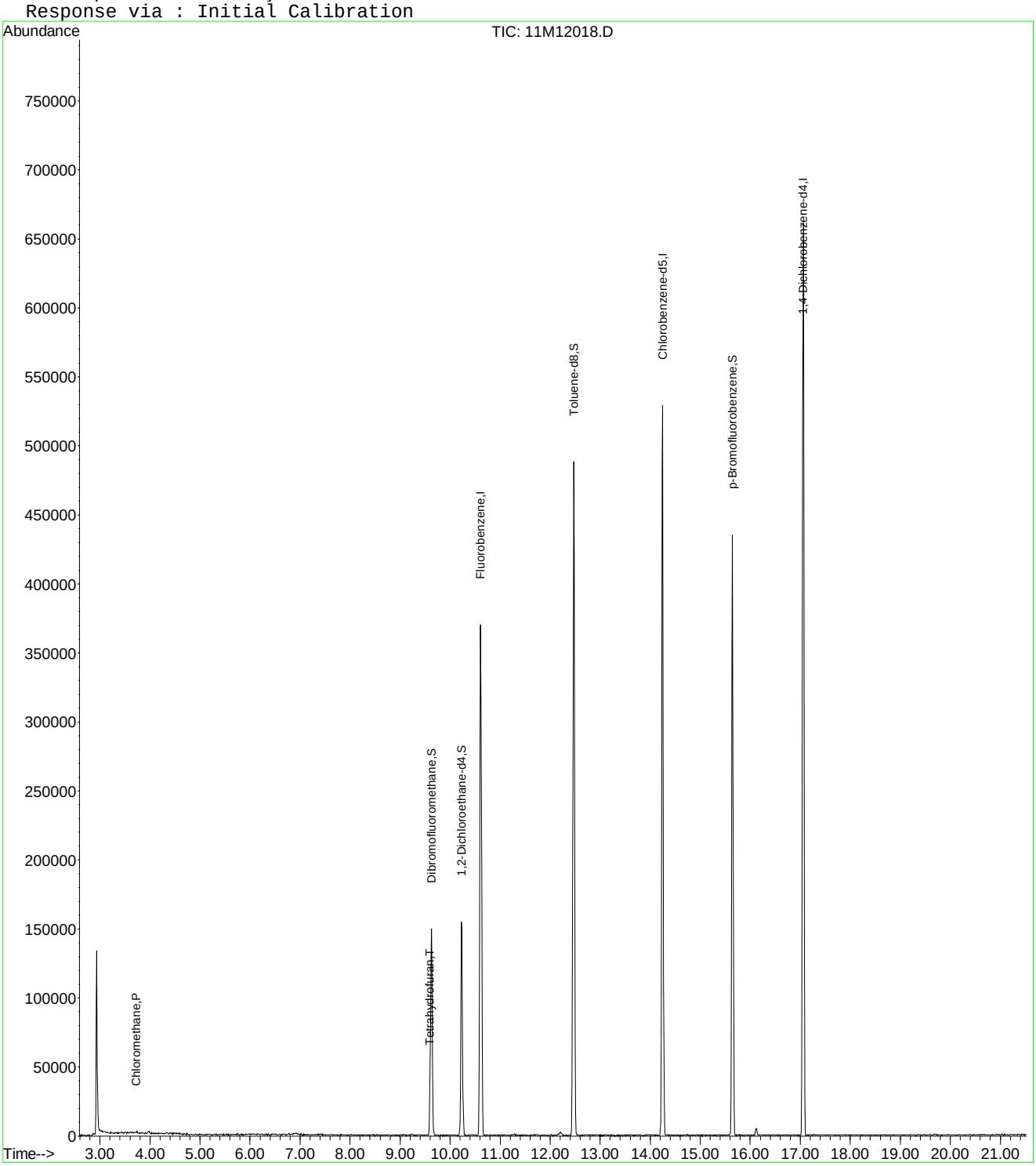
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.61	96	396619	25.00 ug/L	0.00
56) Chlorobenzene-d5	14.25	117	358331	25.00 ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	212645	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.63	111	120194	27.6902 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 110.76%		
43) 1,2-Dichloroethane-d4	10.23	65	145928	29.4844 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 117.92%		
57) Toluene-d8	12.47	98	397363	25.5219 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.08%		
78) p-Bromofluorobenzene	15.64	95	165089	25.1852 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.76%		
Target Compounds					Qvalue
3) Chloromethane	3.72	50	1208	0.2427 ug/L #	41
18) Methyl acetate	7.02	43	433	Below Cal #	71
36) Tetrahydrofuran	9.60	42	993	0.9877 ug/L #	47

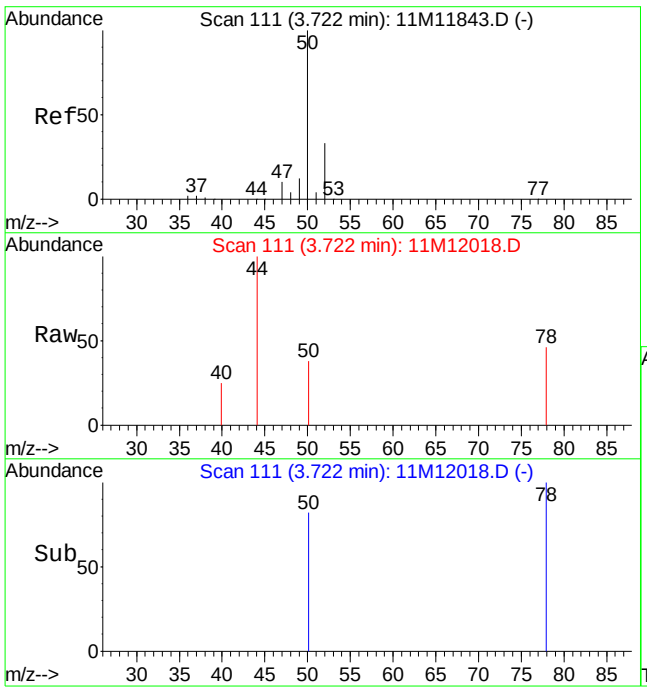
(#) = qualifier out of range (m) = manual integration
11M12018.D 8260WT.M Wed May 25 09:25:59 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052116\11M12018.D Vial: 4
Acq On : 21 May 2016 13:05 Operator: JDS
Sample : WG569786-01 BLANK STD 8260 Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 9:25 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration

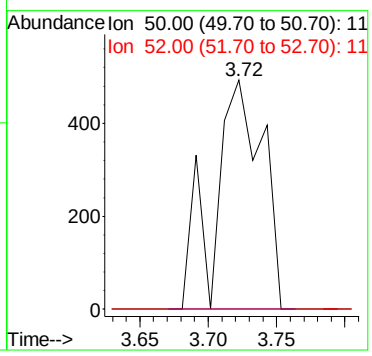


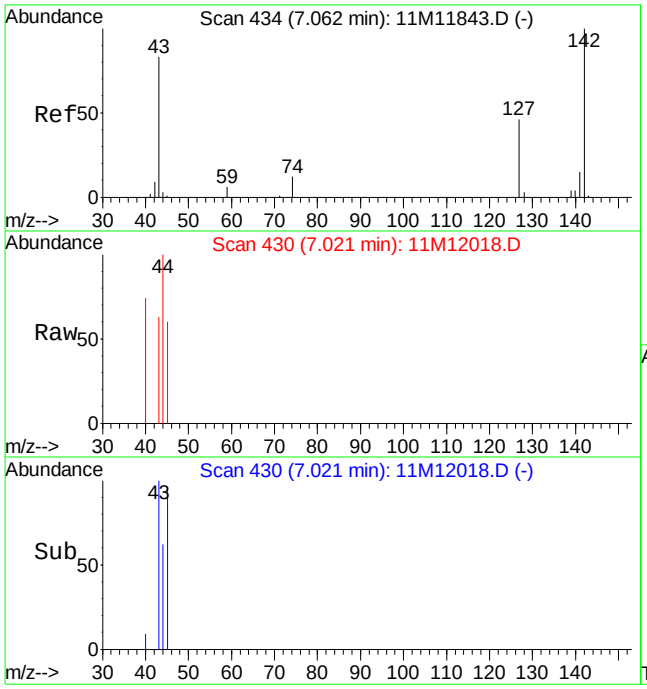


#3
Chloromethane
Concen: 0.24 ug/L
RT: 3.72 min Scan# 111
Delta R.T. -0.00 min
Lab File: 11M12018.D
Acq: 21 May 2016 13:05

Tgt Ion: 50 Resp: 1208

Ion	Ratio	Lower	Upper
50	100		
52	0.0	20.0	46.6#

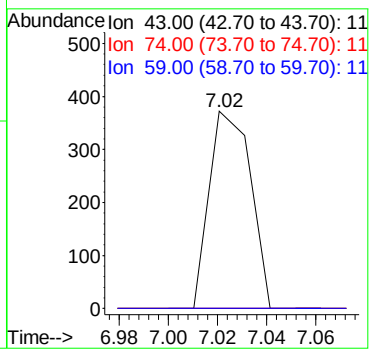


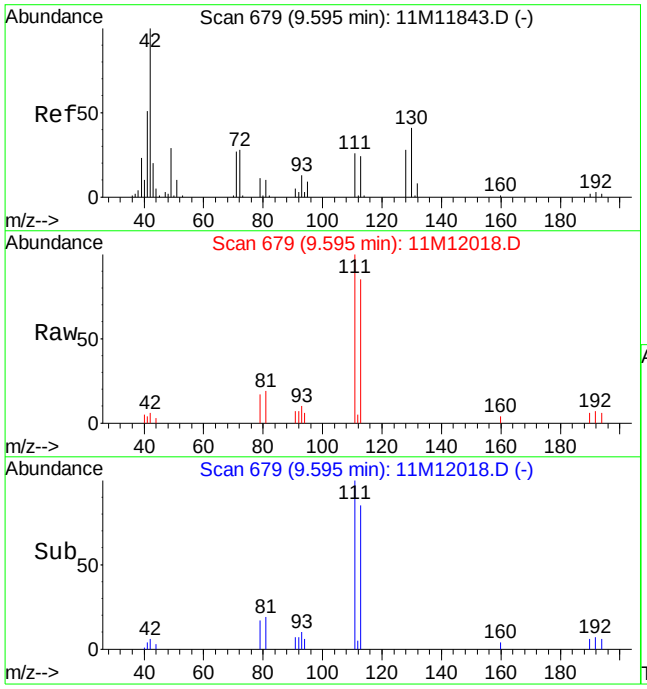


#18
Methyl acetate
Concen: Below Cal
RT: 7.02 min Scan# 430
Delta R.T. -0.04 min
Lab File: 11M12018.D
Acq: 21 May 2016 13:05

Tgt Ion: 43 Resp: 433

Ion	Ratio	Lower	Upper
43	100		
74	0.0	8.2	19.0#
59	0.0	3.9	9.1#

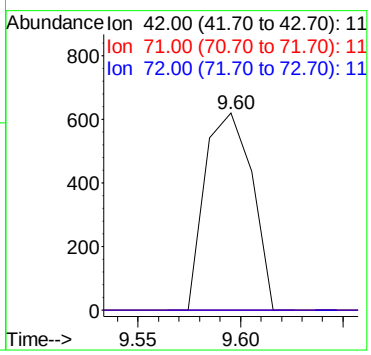




#36
Tetrahydrofuran
Concen: 0.99 ug/L
RT: 9.60 min Scan# 679
Delta R.T. -0.00 min
Lab File: 11M12018.D
Acq: 21 May 2016 13:05

Tgt Ion: 42 Resp: 993

Ion	Ratio	Lower	Upper
42	100		
71	0.0	16.4	38.2#
72	0.0	16.6	38.8#



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\052116\11M12018.D Vial: 4
Acq On : 21 May 2016 13:05 Operator: JDS
Sample : WG569786-01 BLANK STD 8260 Inst : hpms11
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

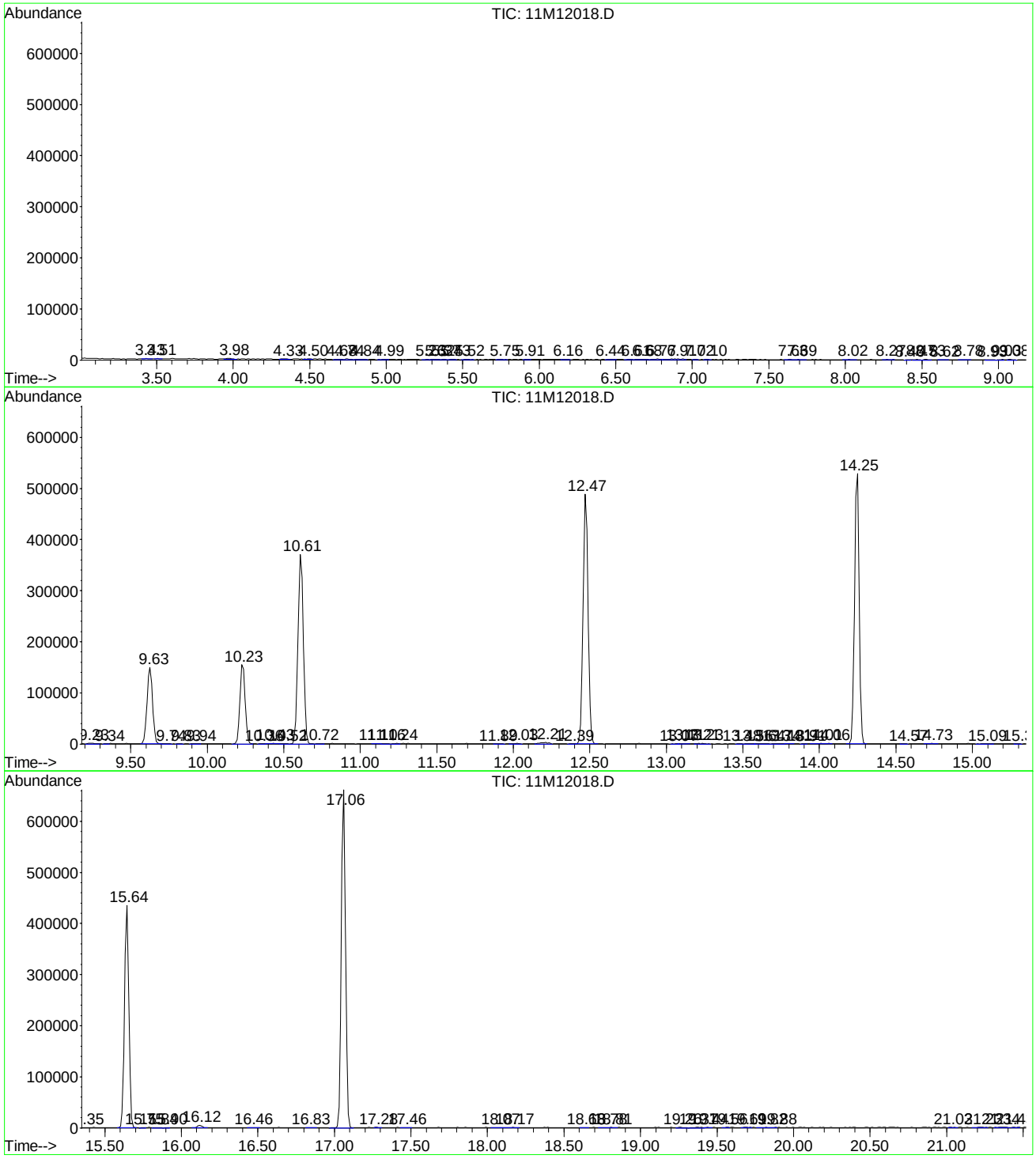
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.433	80	83	87	rVB3	804	2154	0.17%	0.035%
2	3.505	88	90	93	rVB2	851	1770	0.14%	0.028%
3	3.981	132	136	140	rVB3	1855	3886	0.30%	0.062%
4	4.332	167	170	174	rVB2	1018	2080	0.16%	0.033%
5	4.498	182	186	188	rBV2	1014	2924	0.23%	0.047%
6	4.684	201	204	208	rVB	1238	3170	0.25%	0.051%
7	4.736	208	209	214	rBV	1763	3376	0.26%	0.054%
8	4.839	214	219	223	rVV3	629	2103	0.16%	0.034%
9	4.994	229	234	236	rBV	756	1537	0.12%	0.025%
10	5.263	257	260	262	rBV	800	1983	0.16%	0.032%
11	5.325	262	266	269	rVB	829	2201	0.17%	0.035%
12	5.366	269	270	274	rBV2	668	1509	0.12%	0.024%
13	5.428	274	276	279	rVB3	838	1915	0.15%	0.031%
14	5.521	282	285	290	rVB	1062	3272	0.26%	0.053%
15	5.749	304	307	311	rVB	1159	2377	0.19%	0.038%
16	5.914	321	323	326	rBV2	773	1625	0.13%	0.026%
17	6.162	345	347	351	rVB2	734	1619	0.13%	0.026%
18	6.442	373	374	380	rBV2	642	1876	0.15%	0.030%
19	6.607	385	390	391	rVB2	896	2246	0.18%	0.036%
20	6.679	391	397	401	rBV2	1065	4304	0.34%	0.069%
21	6.772	401	406	409	rBV3	1540	4313	0.34%	0.069%
22	6.907	409	419	424	rVV4	1296	6773	0.53%	0.109%
23	7.021	428	430	432	rVB2	1328	1765	0.14%	0.028%
24	7.103	435	438	440	rBV2	896	1820	0.14%	0.029%
25	7.631	486	489	493	rVB2	884	1964	0.15%	0.032%
26	7.693	493	495	500	rVB2	551	1680	0.13%	0.027%
27	8.024	523	527	532	rBV2	625	2394	0.19%	0.038%
28	8.272	548	551	556	rBV2	595	1764	0.14%	0.028%
29	8.396	562	563	566	rBV	834	1928	0.15%	0.031%
30	8.468	567	570	573	rVB2	1197	2403	0.19%	0.039%
31	8.530	573	576	579	rBV2	1114	2888	0.23%	0.046%
32	8.623	583	585	590	rVV	611	1716	0.13%	0.028%
33	8.778	596	600	604	rVB2	618	1937	0.15%	0.031%
34	8.933	613	615	620	rVB	799	2536	0.20%	0.041%
35	9.027	620	624	625	rBV	929	2201	0.17%	0.035%
36	9.078	627	629	633	rVB	1254	2790	0.22%	0.045%
37	9.233	641	644	650	rBV	1484	4671	0.37%	0.075%
38	9.337	652	654	656	rBV	861	1830	0.14%	0.029%
39	9.626	676	682	689	rVB	149818	381264	29.83%	6.120%
40	9.740	689	693	696	rVB2	823	2650	0.21%	0.043%
41	9.833	698	702	703	rBB2	816	1695	0.13%	0.027%
42	9.936	707	712	714	rBV	731	2380	0.19%	0.038%

43	10.226	734	740	747	rBV	155181	366534	28.68%	5.884%
44	10.360	750	753	755	rBV	839	1666	0.13%	0.027%
45	10.433	755	760	764	rVB	575	2172	0.17%	0.035%
46	10.515	764	768	770	rVB2	847	2223	0.17%	0.036%
47	10.608	770	777	786	rBB	370505	904302	70.76%	14.516%
48	10.722	786	788	792	rBV2	902	2353	0.18%	0.038%
49	11.105	822	825	828	rVB2	596	1419	0.11%	0.023%
50	11.156	828	830	834	rVB2	924	1810	0.14%	0.029%
51	11.239	834	838	840	rBV	1049	2830	0.22%	0.045%
52	11.891	899	901	906	rVB	741	2087	0.16%	0.034%
53	12.025	909	914	917	rVB2	1070	2480	0.19%	0.040%
54	12.211	925	932	936	rVB3	2759	10997	0.86%	0.177%
55	12.387	946	949	951	rBV	833	1854	0.15%	0.030%
56	12.470	951	957	965	rVV	488413	1095475	85.72%	17.585%
57	13.069	1011	1015	1016	rBV	739	1490	0.12%	0.024%
58	13.111	1016	1019	1023	rVV2	907	2892	0.23%	0.046%
59	13.214	1026	1029	1030	rVB2	989	1510	0.12%	0.024%
60	13.235	1030	1031	1036	rBB	940	1774	0.14%	0.028%
61	13.483	1052	1055	1057	rBB	893	1824	0.14%	0.029%
62	13.555	1057	1062	1064	rBV2	743	2601	0.20%	0.042%
63	13.638	1064	1070	1074	rVB2	767	3765	0.29%	0.060%
64	13.741	1074	1080	1083	rBV	814	3462	0.27%	0.056%
65	13.814	1083	1087	1089	rVV	602	1560	0.12%	0.025%
66	13.907	1093	1096	1097	rBV2	859	1679	0.13%	0.027%
67	14.010	1099	1106	1107	rVV2	663	2443	0.19%	0.039%
68	14.062	1107	1111	1113	rVV	705	1690	0.13%	0.027%
69	14.248	1122	1129	1135	rBV	529237	1119683	87.61%	17.973%
70	14.569	1156	1160	1161	rVB	706	1521	0.12%	0.024%
71	14.734	1171	1176	1180	rVB2	680	1707	0.13%	0.027%
72	15.086	1204	1210	1215	rBV2	854	4058	0.32%	0.065%
73	15.313	1228	1232	1233	rVB2	790	1745	0.14%	0.028%
74	15.354	1233	1236	1242	rBV2	909	3809	0.30%	0.061%
75	15.644	1258	1264	1270	rVB	435220	851354	66.62%	13.666%
76	15.747	1272	1274	1276	rBV	761	1444	0.11%	0.023%
77	15.840	1280	1283	1287	rVB	802	2085	0.16%	0.033%
78	15.902	1287	1289	1291	rBV	750	1743	0.14%	0.028%
79	16.119	1305	1310	1315	rBV2	5023	11042	0.86%	0.177%
80	16.461	1340	1343	1348	rVB	552	1626	0.13%	0.026%
81	16.833	1377	1379	1384	rBV	603	1810	0.14%	0.029%
82	17.060	1392	1401	1407	rBV	662062	1277966	100.00%	20.514%
83	17.278	1420	1422	1425	rVB	937	1457	0.11%	0.023%
84	17.464	1437	1440	1444	rVB2	517	1715	0.13%	0.028%
85	18.074	1494	1499	1505	rVB2	528	2615	0.20%	0.042%
86	18.167	1505	1508	1512	rBV2	561	1831	0.14%	0.029%
87	18.632	1550	1553	1556	rBV2	557	1845	0.14%	0.030%
88	18.777	1562	1567	1568	rBV2	546	1527	0.12%	0.025%
89	18.808	1568	1570	1574	rVB	611	1497	0.12%	0.024%
90	19.263	1611	1614	1619	rVB	969	3635	0.28%	0.058%
91	19.366	1619	1624	1629	rBV2	1139	5296	0.41%	0.085%
92	19.438	1629	1631	1634	rBV2	653	1736	0.14%	0.028%
93	19.563	1640	1643	1645	rBV2	593	1491	0.12%	0.024%
94	19.687	1652	1655	1659	rBV	1214	2648	0.21%	0.043%
95	19.821	1662	1668	1669	rVB2	588	1866	0.15%	0.030%
96	19.883	1669	1674	1675	rBV	636	1691	0.13%	0.027%
97	21.031	1783	1785	1789	rVB	1266	2127	0.17%	0.034%
98	21.227	1798	1804	1808	rBV2	914	3333	0.26%	0.054%
99	21.341	1812	1815	1822	rBV2	601	2114	0.17%	0.034%
100	21.434	1823	1824	1828	rBV	978	1548	0.12%	0.025%

Sum of corrected areas: 6229746

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\052116\11M12018.D
Operator : JDS
Acquired : 21 May 2016 13:05 using AcqMethod 8260WT
Instrument : hpms11
Sample Name: WG569786-01 BLANK STD 8260
Misc Info : 1,1
Vial Number: 4
Quant File :8260WT.RES (RTE Integrator)



Tentatively Identified Compound (LSC) summary

Operator ID: JDS Date Acquired: 21 May 2016 13:05
Data File: C:\MSDCHEM\1\DATA\052116\11M12018.D
Name: WG569786-01 BLANK STD 8260
Misc: 1,1
Method: C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title: 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Library Searched: C:\DATABASE\NIST02.L

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021270.D Vial: 16
Acq On : 20 May 2016 20:48 Operator: ADC
Sample : WG569773-01 BLK 8260 Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:14 2016

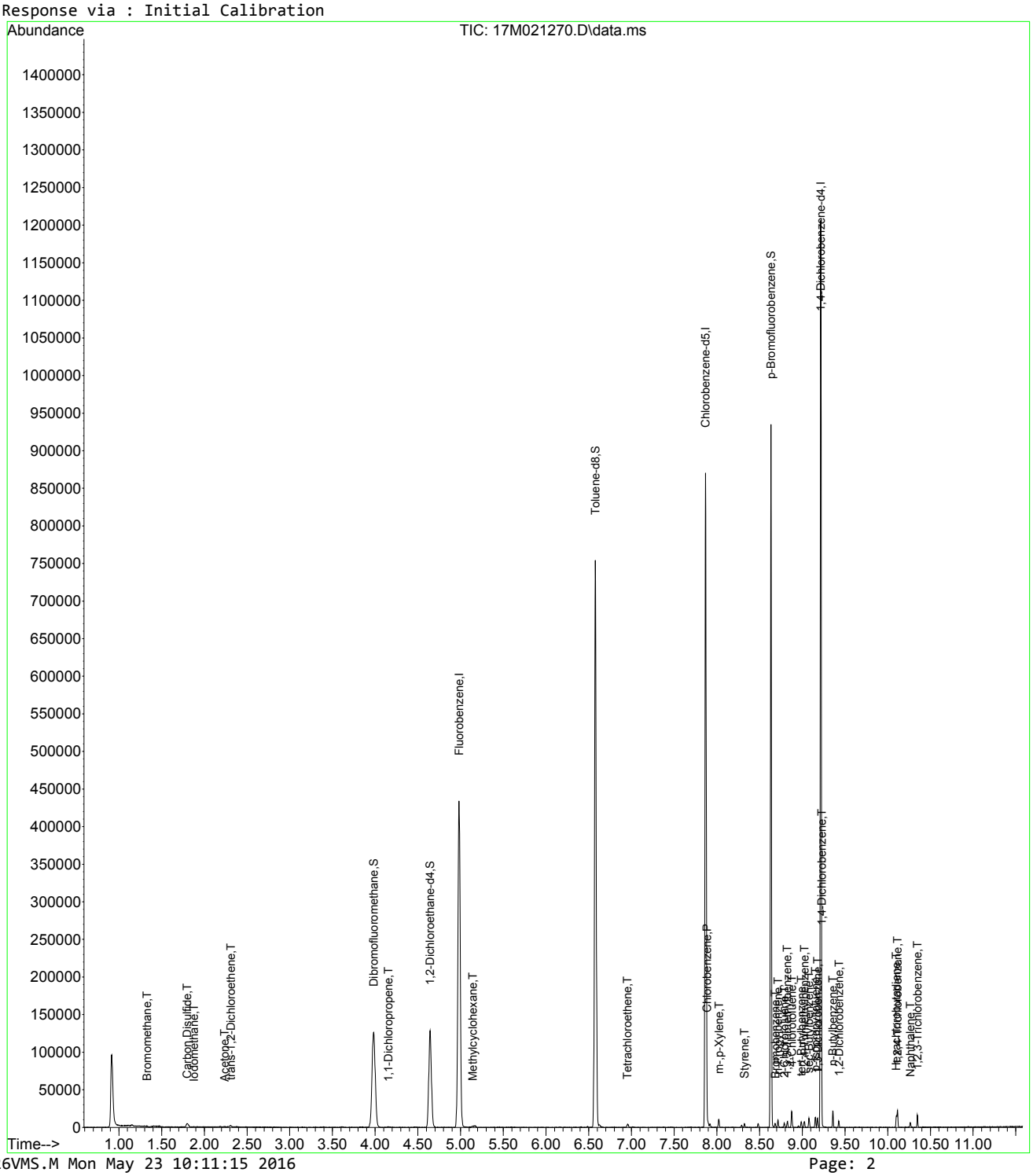
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	402325	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.868	117	303563	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	160464	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.983	111	103326	24.2485	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 96.994%			
34) 1,2-Dichloroethane-d4	4.643	65	103038	26.1516	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.606%			
47) Toluene-d8	6.577	98	417129	25.7305	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.922%			
66) p-Bromofluorobenzene	8.633	95	150004	27.0372	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 108.149%			
Target Compounds						Qvalue
6) Bromomethane	1.328	94	555	0.1674	ug/L	95
11) Carbon Disulfide	1.800	76	5257	0.4230	ug/L	98
13) Iodomethane	1.878	142	359	1.1422	ug/L #	34
16) Acetone	2.234	43	199	0.3127	ug/L #	45
17) trans-1,2-Dichloroethene	2.309	96	682	0.1595	ug/L	90
31) 1,1-Dichloropropene	4.154	75	718	0.1236	ug/L #	73
36) Methylcyclohexane	5.144	83	977	0.1394	ug/L #	89
49) Tetrachloroethene	6.954	166	1200	0.2138	ug/L #	85
55) Chlorobenzene	7.883	112	1761	0.1388	ug/L #	1
59) m-,p-Xylene	8.025	106	1941	0.2457	ug/L	96
61) Styrene	8.323	104	1527	0.1235	ug/L	96
65) 1,3,5-Trimethylbenzene	8.824	105	2540	0.1551	ug/L	99
67) Bromobenzene	8.685	156	887	0.1584	ug/L	96
68) n-Propylbenzene	8.717	91	4531	0.2074	ug/L #	96
70) 2-Chlorotoluene	8.789	91	1983	0.1472	ug/L	97
73) 1,2,4-Trimethylbenzene	9.024	105	2651	0.1617	ug/L	99
74) 4-Chlorotoluene	8.879	91	3243	0.2322	ug/L	97
75) tert-Butylbenzene	8.989	134	450	0.1460	ug/L	89
76) sec-Butylbenzene	9.079	105	4697	0.2307	ug/L	99
77) p-Isopropyltoluene	9.154	119	4201	0.2480	ug/L	99
78) 1,3-Dichlorobenzene	9.180	146	3091	0.3035	ug/L	98
79) 1,4-Dichlorobenzene	9.226	146	3477	0.3308	ug/L	85
80) n-Butylbenzene	9.357	91	6446	0.4082	ug/L	99
81) 1,2-Dichlorobenzene	9.429	146	1734	0.1816	ug/L	97
83) Hexachlorobutadiene	10.101	225	1737	0.4682	ug/L	98
84) 1,2,4-Trichlorobenzene	10.115	180	4063	0.5746	ug/L	96
85) Naphthalene	10.266	128	3298	0.3056	ug/L	93
86) 1,2,3-Trichlorobenzene	10.347	180	2861	0.4614	ug/L	98

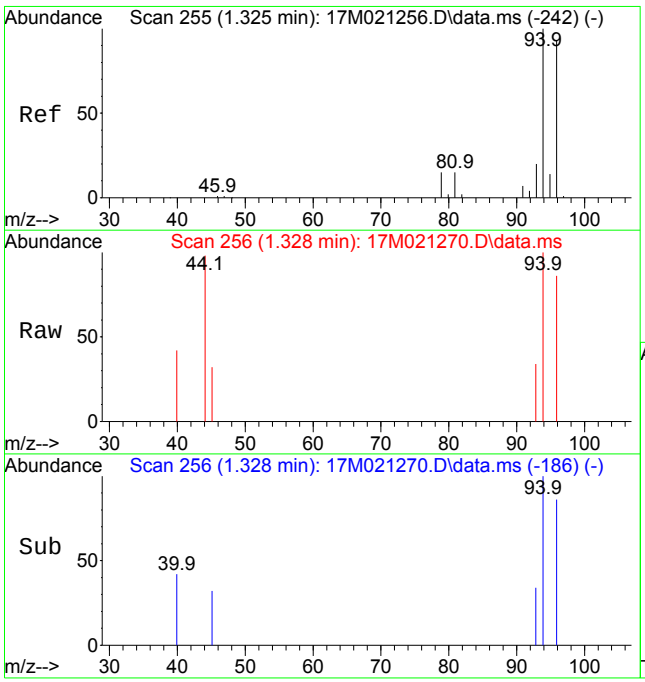
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021270.D Vial: 16
Acq On : 20 May 2016 20:48 Operator: ADC
Sample : WG569773-01 BLK 8260 Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:14 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



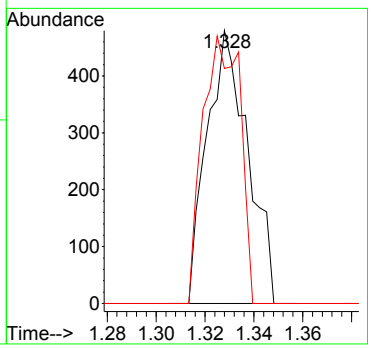
826VMS.M Mon May 23 10:11:15 2016 Page: 2

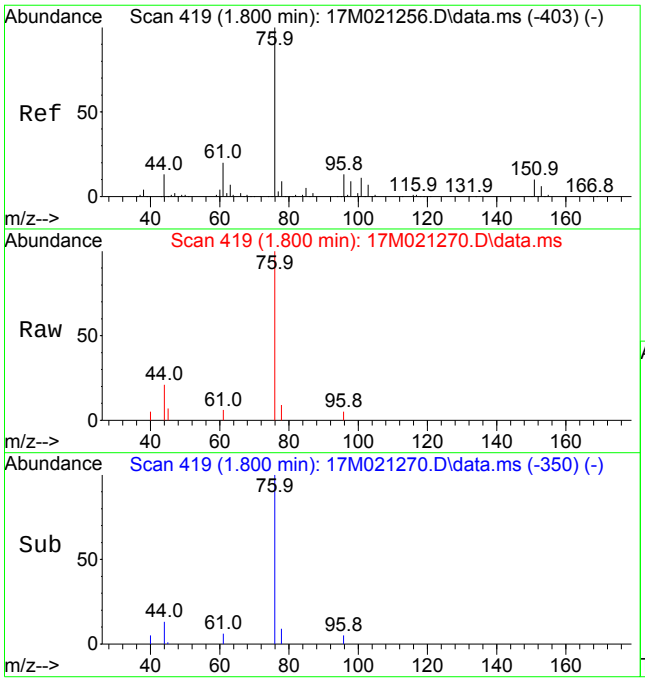


#6
Bromomethane
Concen: 0.1674 ug/L
RT: 1.328 min Scan# 256
Delta R.T. 0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion: 94 Resp: 555

Ion	Ratio	Lower	Upper
94	100		
96	89.7	56.6	132.0

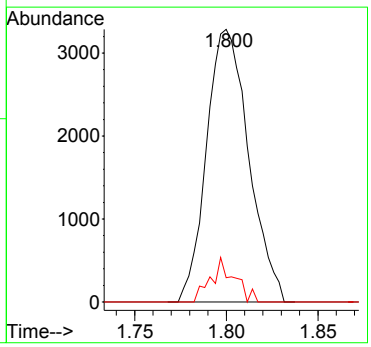


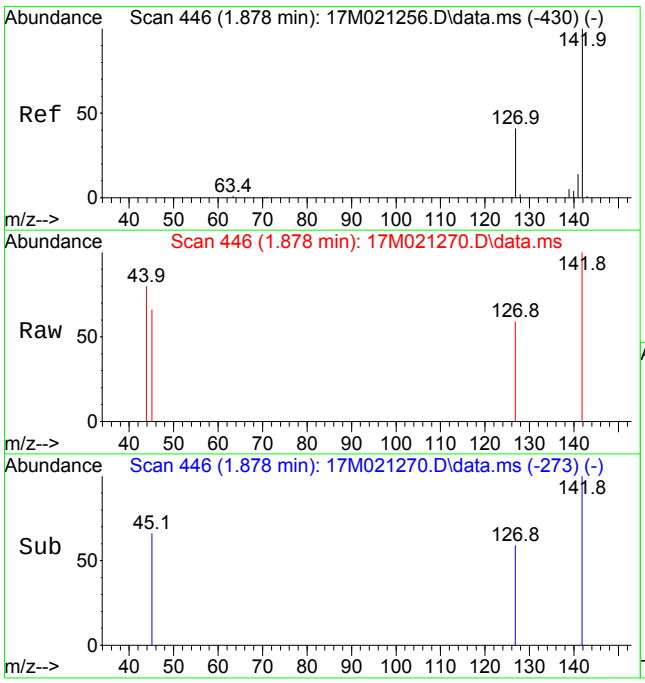


#11
Carbon Disulfide
Concen: 0.4230 ug/L
RT: 1.800 min Scan# 419
Delta R.T. -0.000 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion: 76 Resp: 5257

Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.9	11.9

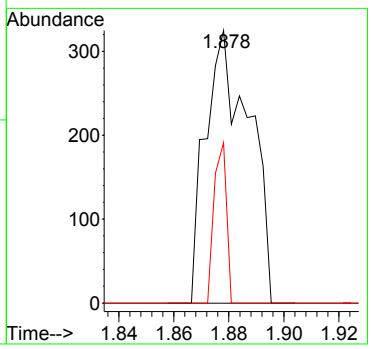


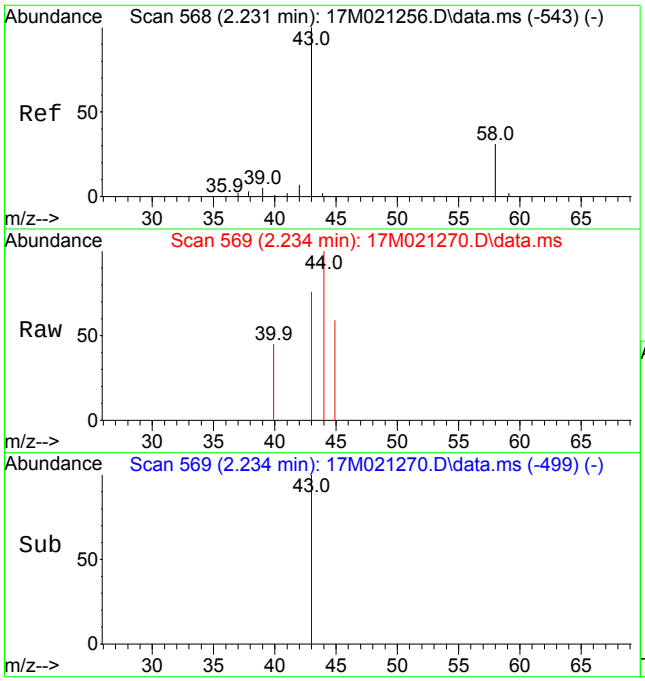


#13
Iodomethane
Concen: 1.1422 ug/L
RT: 1.878 min Scan# 446
Delta R.T. 0.000 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:142 Resp: 359

Ion	Ratio	Lower	Upper
142	100		
127	0.0	33.3	49.9#

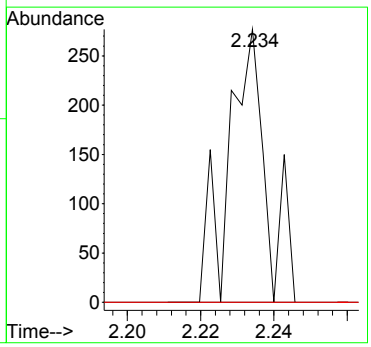


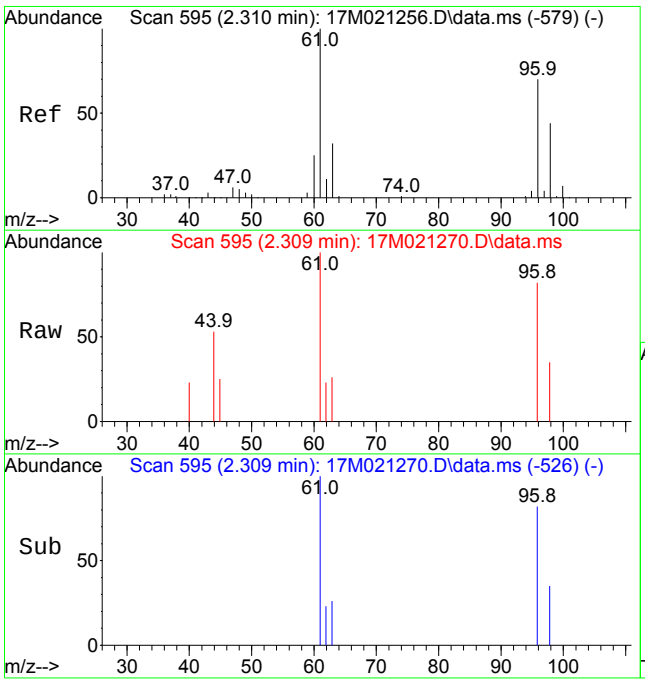


#16
Acetone
Concen: 0.3127 ug/L
RT: 2.234 min Scan# 569
Delta R.T. 0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion: 43 Resp: 199

Ion	Ratio	Lower	Upper
43	100		
58	0.0	17.6	41.2#

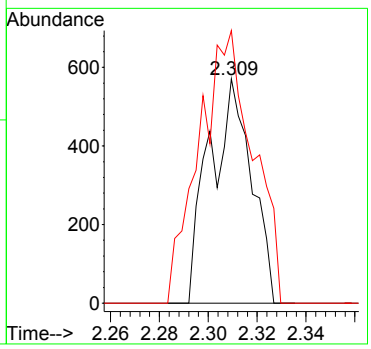


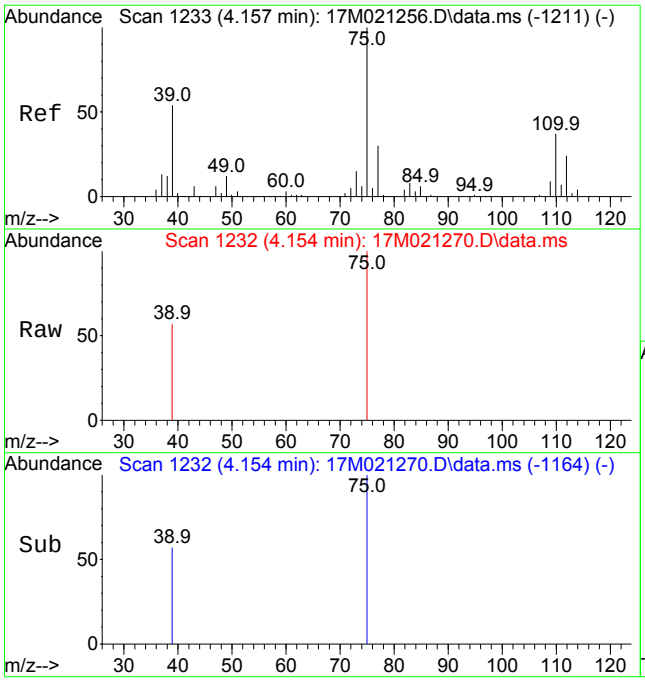


#17
trans-1,2-Dichloroethene
Concen: 0.1595 ug/L
RT: 2.309 min Scan# 595
Delta R.T. -0.001 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion: 96 Resp: 682

Ion	Ratio	Lower	Upper
96	100		
61	156.3	115.4	173.0

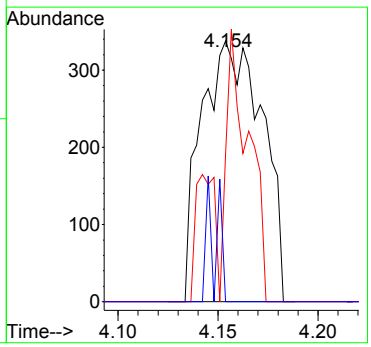


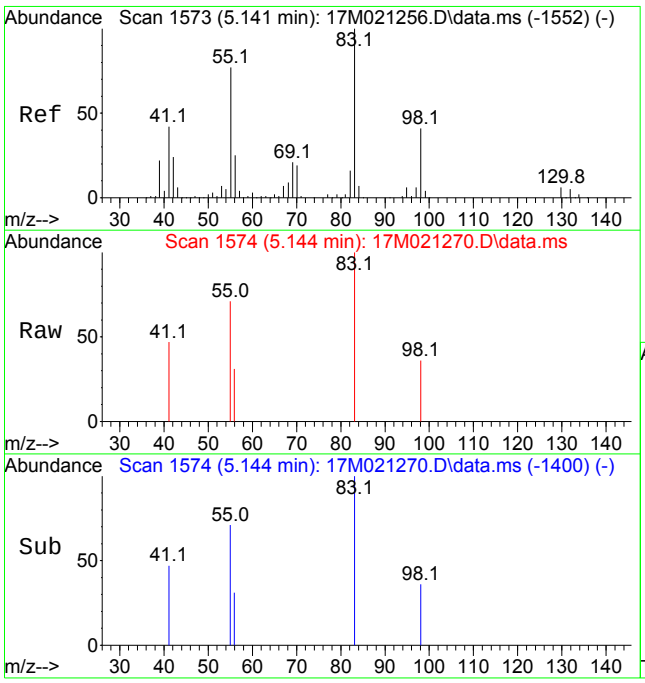


#31
1,1-Dichloropropene
Concen: 0.1236 ug/L
RT: 4.154 min Scan# 1232
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion: 75 Resp: 718

Ion	Ratio	Lower	Upper
75	100		
39	53.5	32.8	76.6
110	0.0	22.8	53.2#

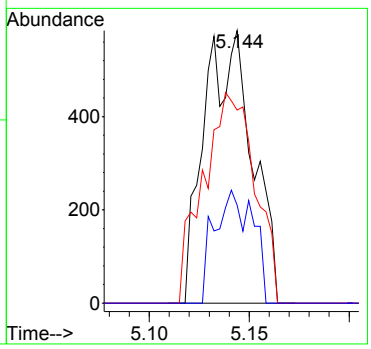


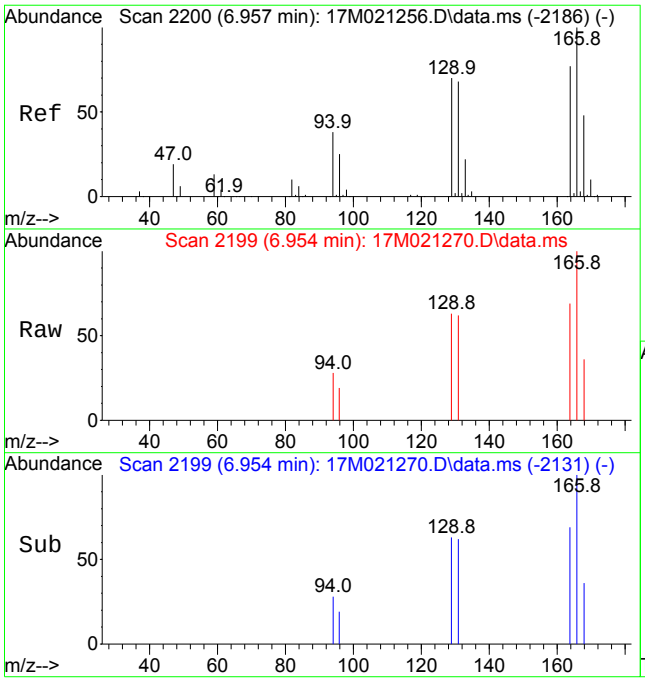


#36
Methylcyclohexane
Concen: 0.1394 ug/L
RT: 5.144 min Scan# 1574
Delta R.T. 0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion: 83 Resp: 977

Ion	Ratio	Lower	Upper
83	100		
55	83.4	60.5	90.7
98	33.1	33.4	50.2#

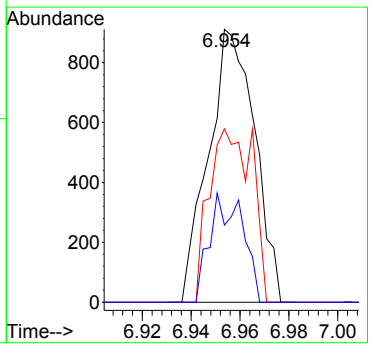


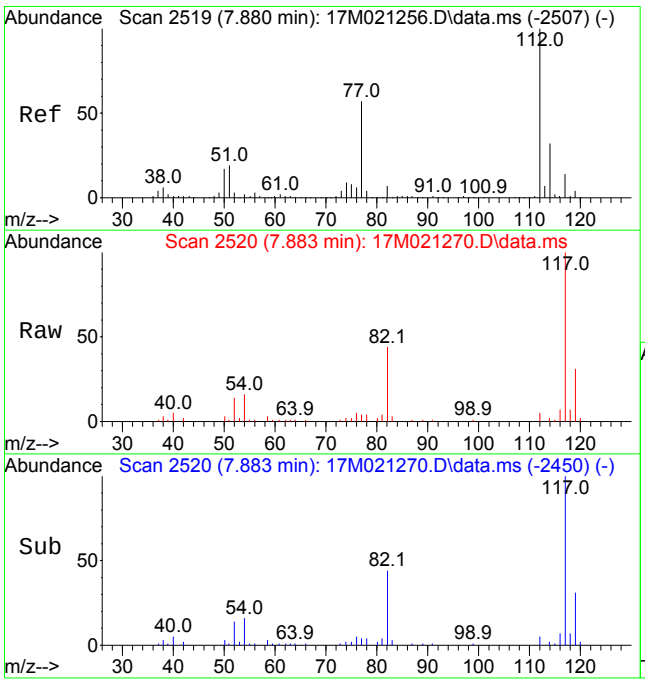


#49
Tetrachloroethene
Concen: 0.2138 ug/L
RT: 6.954 min Scan# 2199
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:166 Resp: 1200

Ion	Ratio	Lower	Upper
166	100		
129	59.3	56.7	85.1
94	28.4	30.7	46.1#

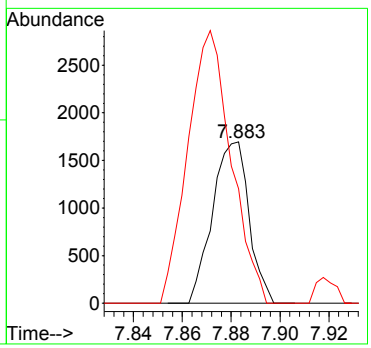


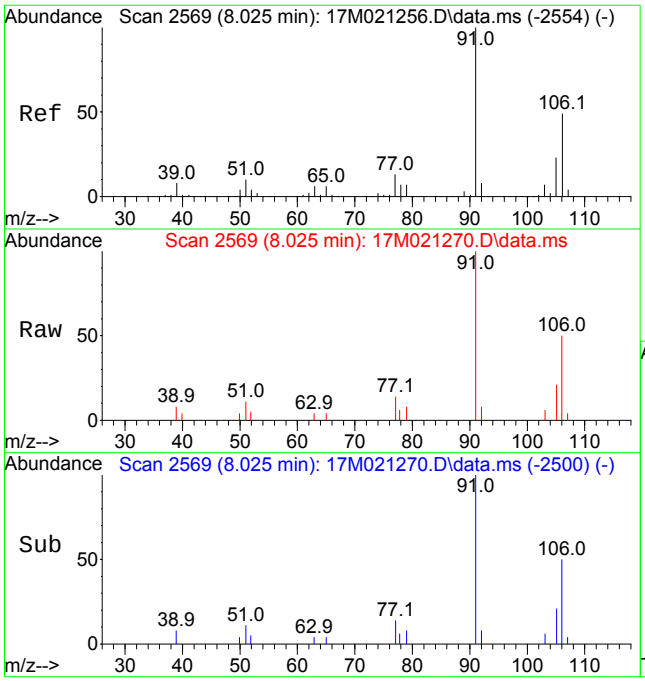


#55
Chlorobenzene
Concen: 0.1388 ug/L
RT: 7.883 min Scan# 2520
Delta R.T. 0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:112 Resp: 1761

Ion	Ratio	Lower	Upper
112	100		
77	200.1	34.3	80.1#

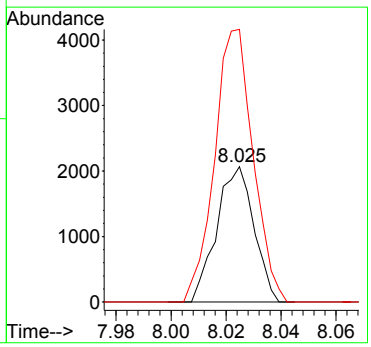


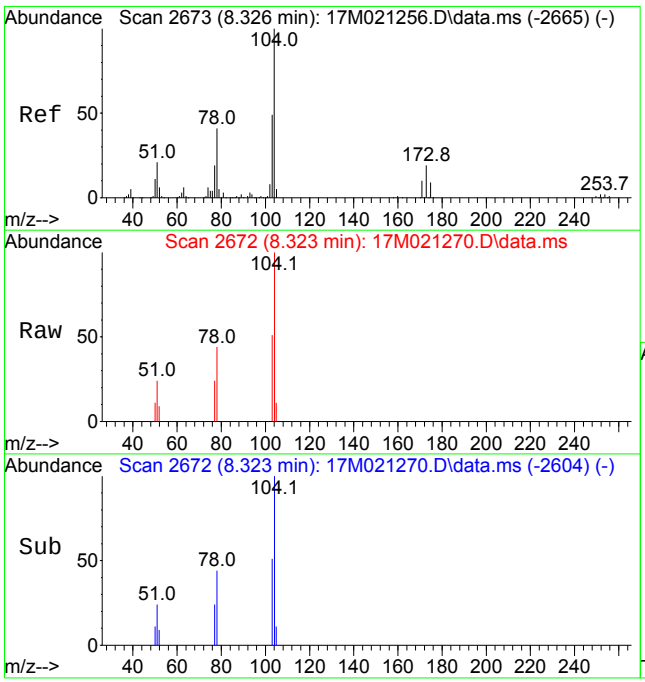


#59
m-,p-Xylene
Concen: 0.2457 ug/L
RT: 8.025 min Scan# 2569
Delta R.T. -0.000 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:106 Resp: 1941

Ion	Ratio	Lower	Upper
106	100		
91	208.6	121.7	283.9

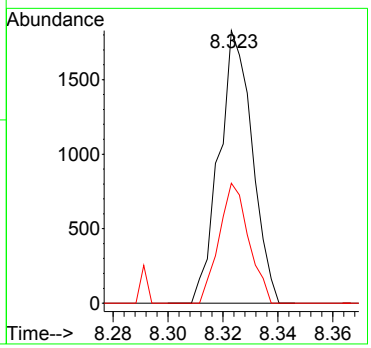


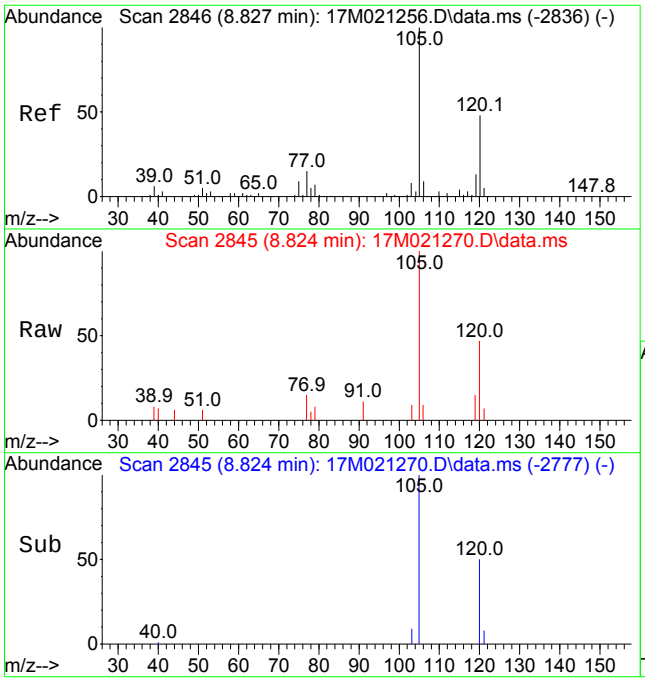


#61
Styrene
Concen: 0.1235 ug/L
RT: 8.323 min Scan# 2672
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:104 Resp: 1527

Ion	Ratio	Lower	Upper
104	100		
78	39.5	25.3	58.9

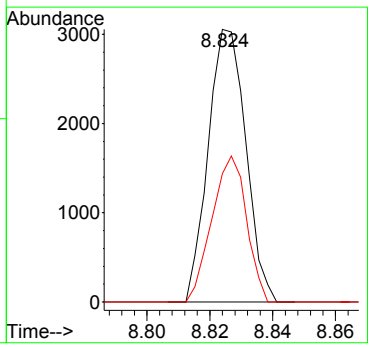


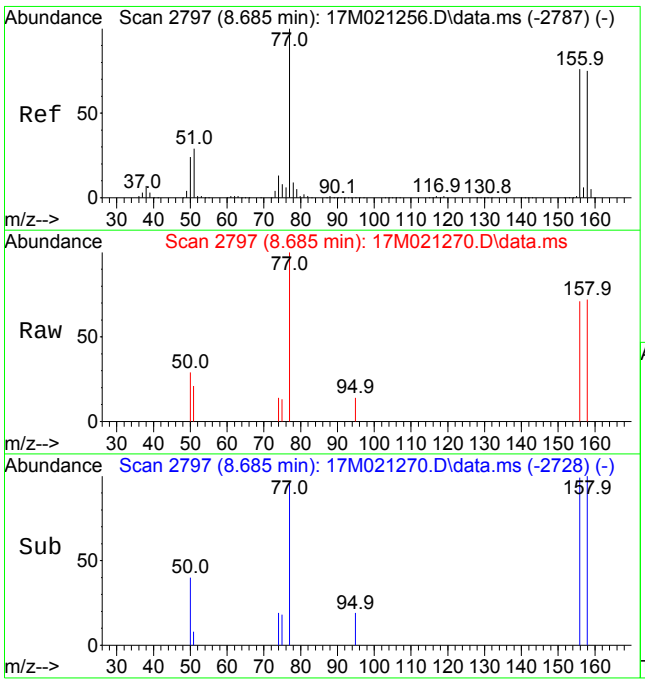


#65
1,3,5-Trimethylbenzene
Concen: 0.1551 ug/L
RT: 8.824 min Scan# 2845
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:105 Resp: 2540

Ion	Ratio	Lower	Upper
105	100		
120	49.1	38.7	58.1

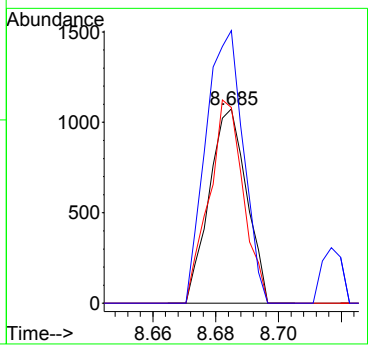


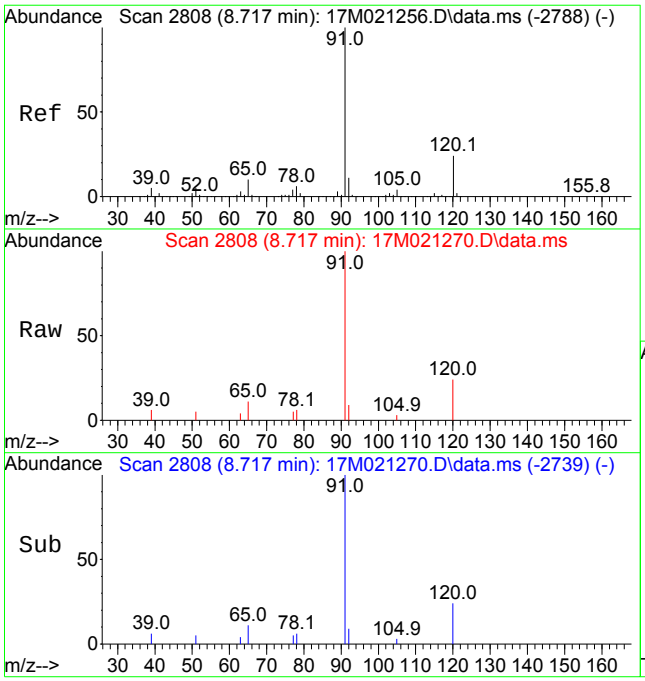


#67
Bromobenzene
Concen: 0.1584 ug/L
RT: 8.685 min Scan# 2797
Delta R.T. -0.000 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:156 Resp: 887

Ion	Ratio	Lower	Upper
156	100		
158	95.8	78.4	117.6
77	140.7	108.0	162.0

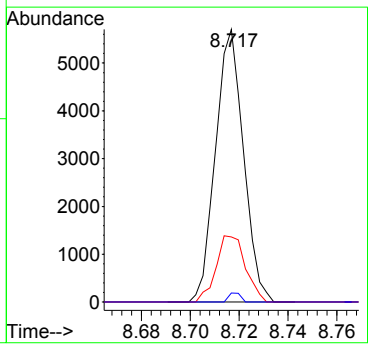


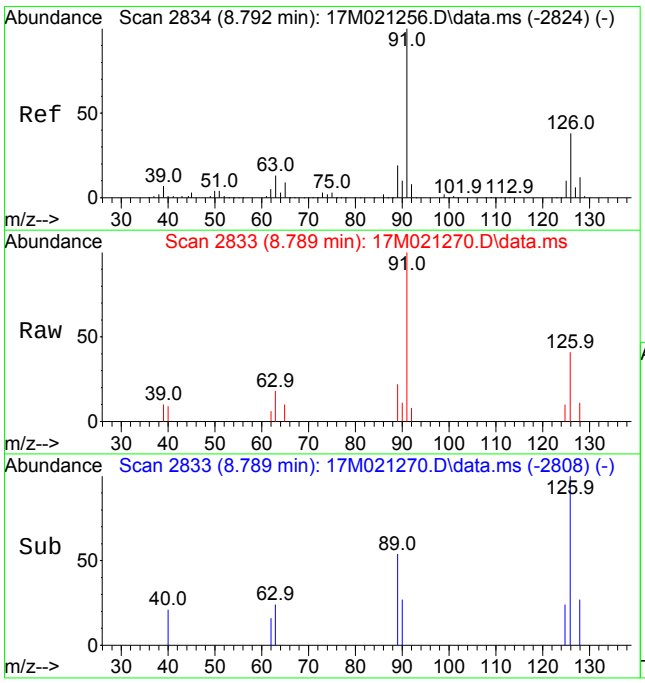


#68
n-Propylbenzene
Concen: 0.2074 ug/L
RT: 8.717 min Scan# 2808
Delta R.T. -0.000 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion: 91 Resp: 4531

Ion	Ratio	Lower	Upper
91	100		
120	25.5	14.3	33.5
105	0.0	2.1	4.9#

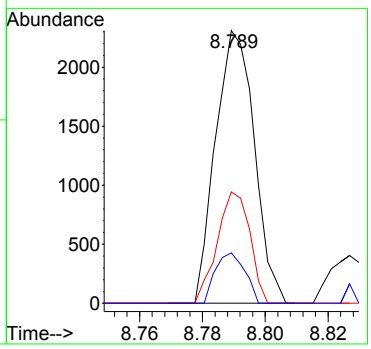


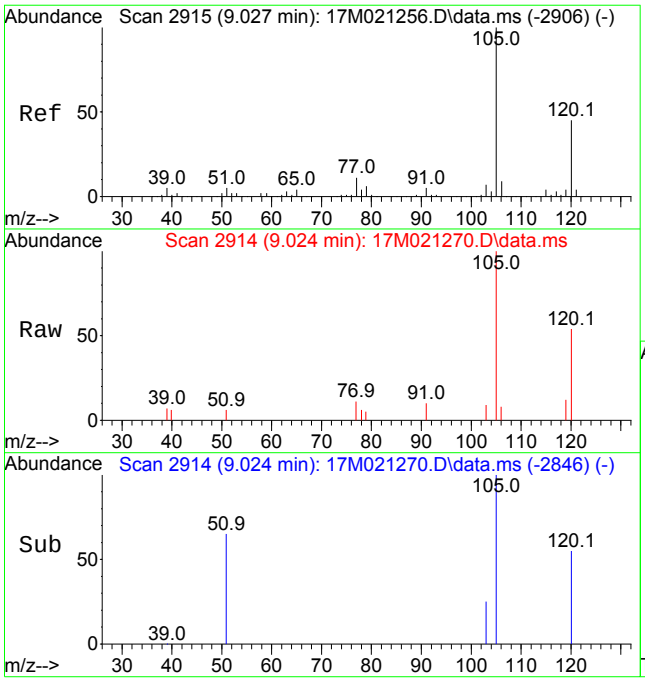


#70
2-Chlorotoluene
Concen: 0.1472 ug/L
RT: 8.789 min Scan# 2833
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion: 91 Resp: 1983

Ion	Ratio	Lower	Upper
91	100		
126	34.3	22.1	51.5
63	14.1	8.2	19.0

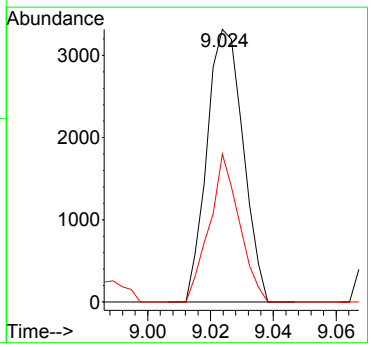


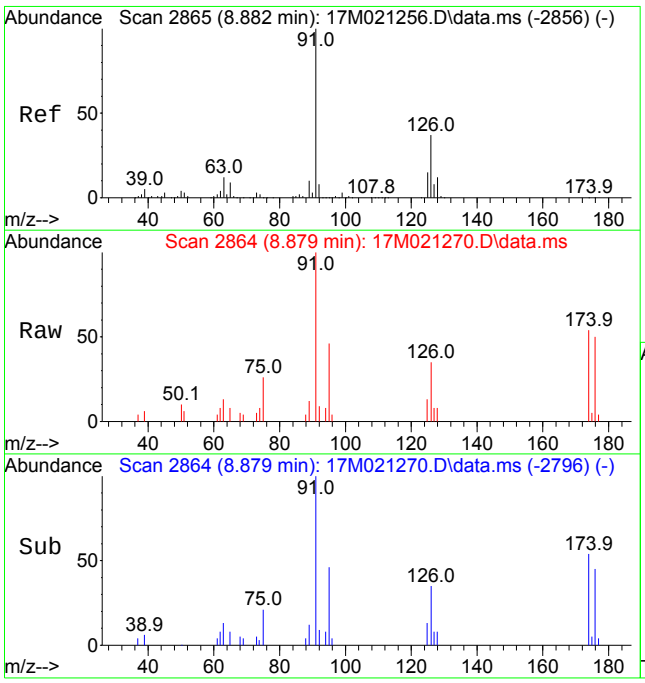


#73
1,2,4-Trimethylbenzene
Concen: 0.1617 ug/L
RT: 9.024 min Scan# 2914
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:105 Resp: 2651

Ion	Ratio	Lower	Upper
105	100		
120	44.8	36.6	54.8

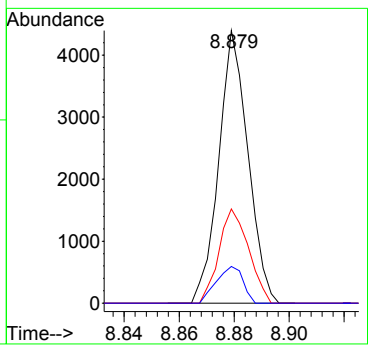


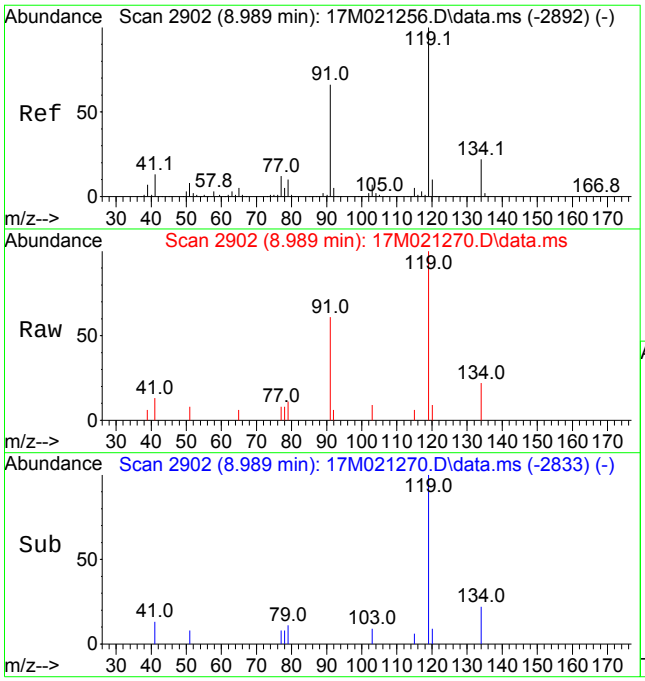


#74
4-Chlorotoluene
Concen: 0.2322 ug/L
RT: 8.879 min Scan# 2864
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion: 91 Resp: 3243

Ion	Ratio	Lower	Upper
91	100		
126	35.1	22.3	51.9
63	12.3	7.2	16.8

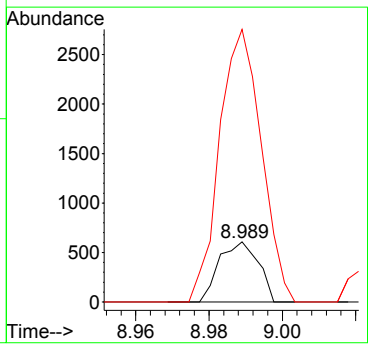


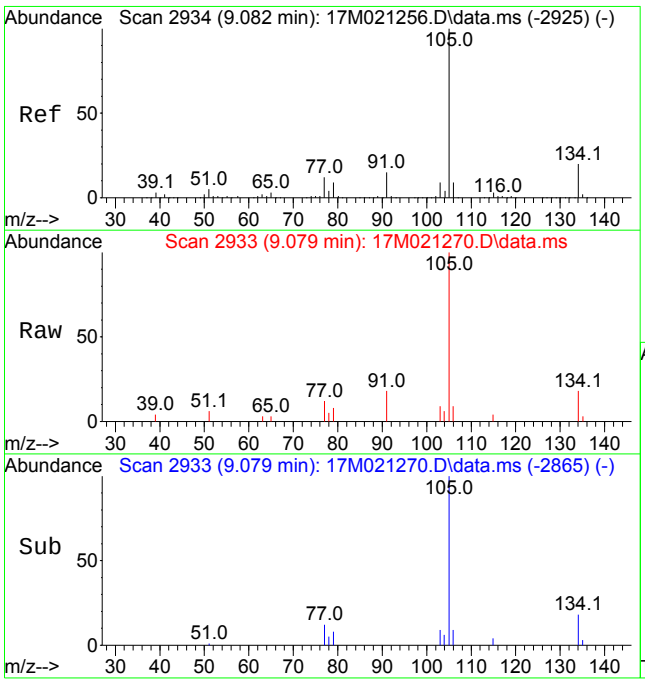


#75
tert-Butylbenzene
Concen: 0.1460 ug/L
RT: 8.989 min Scan# 2902
Delta R.T. -0.000 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:134 Resp: 450

Ion	Ratio	Lower	Upper
134	100		
119	485.8	274.2	639.8

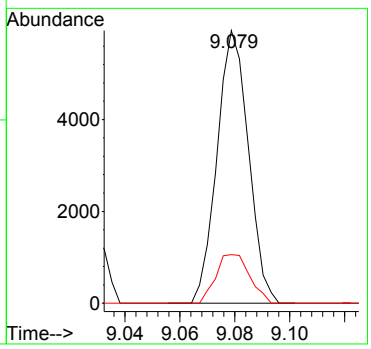


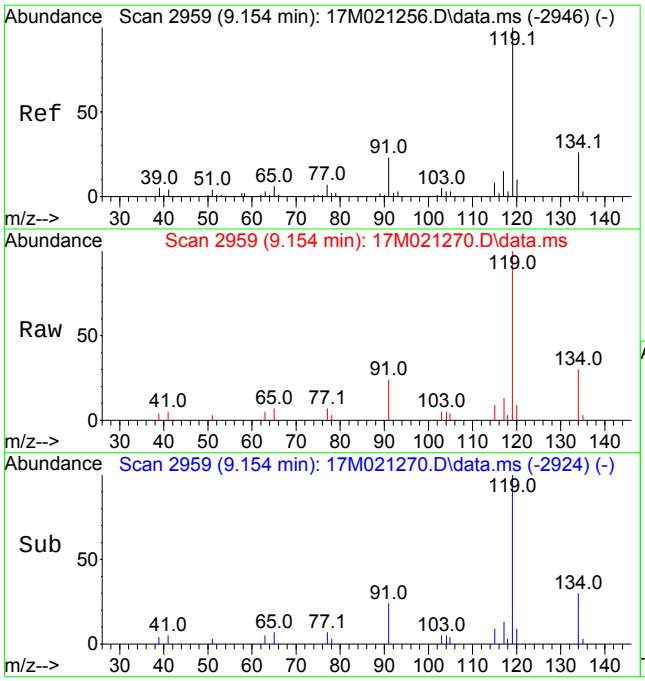


#76
sec-Butylbenzene
Concen: 0.2307 ug/L
RT: 9.079 min Scan# 2933
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:105 Resp: 4697

Ion	Ratio	Lower	Upper
105	100		
134	19.3	11.9	27.9

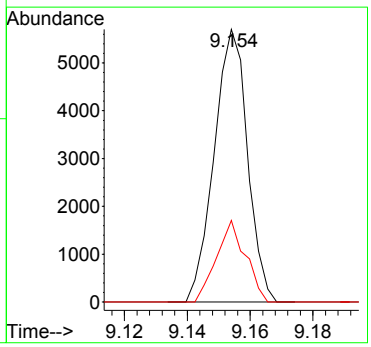


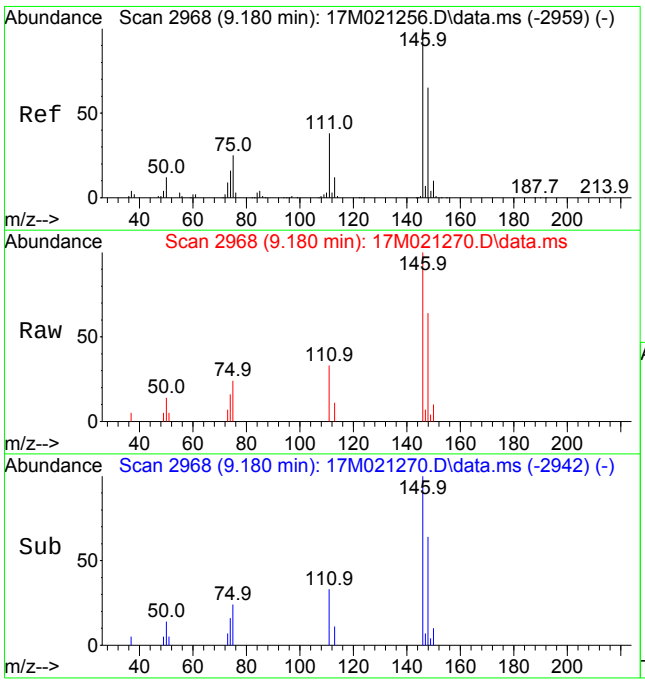


#77
p-Isopropyltoluene
Concen: 0.2480 ug/L
RT: 9.154 min Scan# 2959
Delta R.T. 0.000 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:119 Resp: 4201

Ion	Ratio	Lower	Upper
119	100		
134	26.1	16.0	37.4

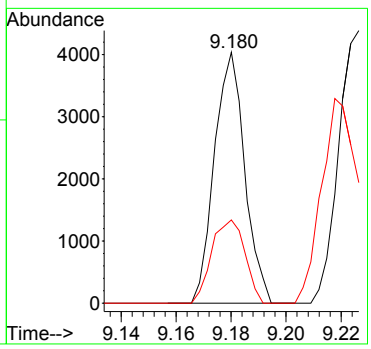


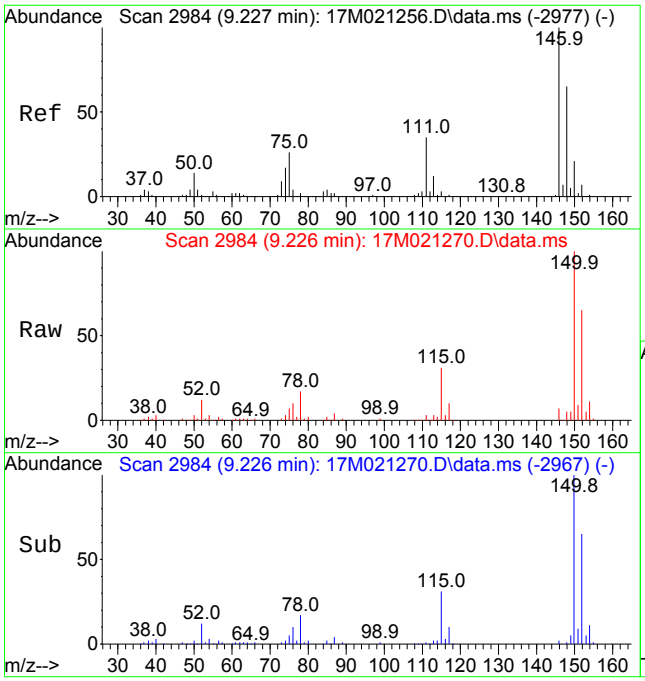


#78
1,3-Dichlorobenzene
Concen: 0.3035 ug/L
RT: 9.180 min Scan# 2968
Delta R.T. 0.000 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:146 Resp: 3091

Ion	Ratio	Lower	Upper
146	100		
111	36.3	22.4	52.2

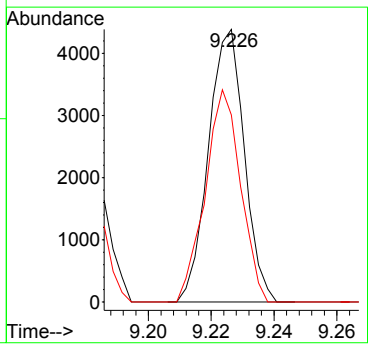


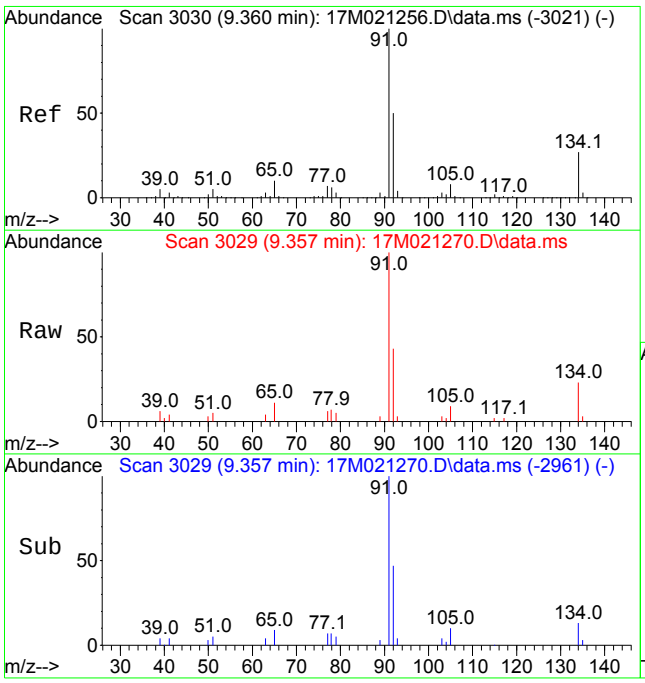


#79
1,4-Dichlorobenzene
Concen: 0.3308 ug/L
RT: 9.226 min Scan# 2984
Delta R.T. -0.001 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:146 Resp: 3477

Ion	Ratio	Lower	Upper
146	100		
148	76.6	51.6	77.4

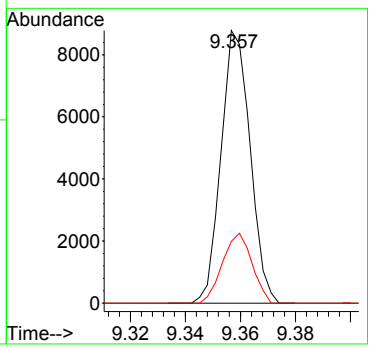


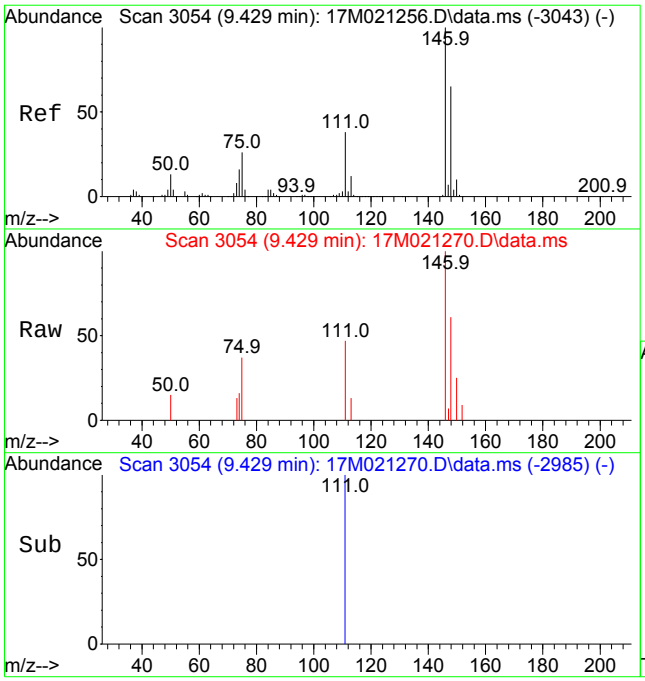


#80
n-Butylbenzene
Concen: 0.4082 ug/L
RT: 9.357 min Scan# 3029
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion: 91 Resp: 6446

Ion	Ratio	Lower	Upper
91	100		
134	26.0	16.1	37.5

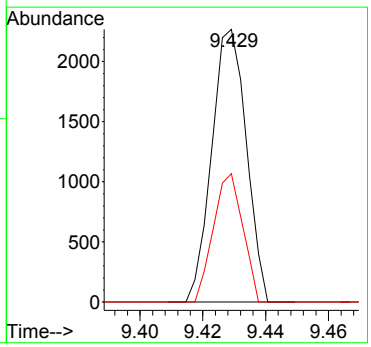


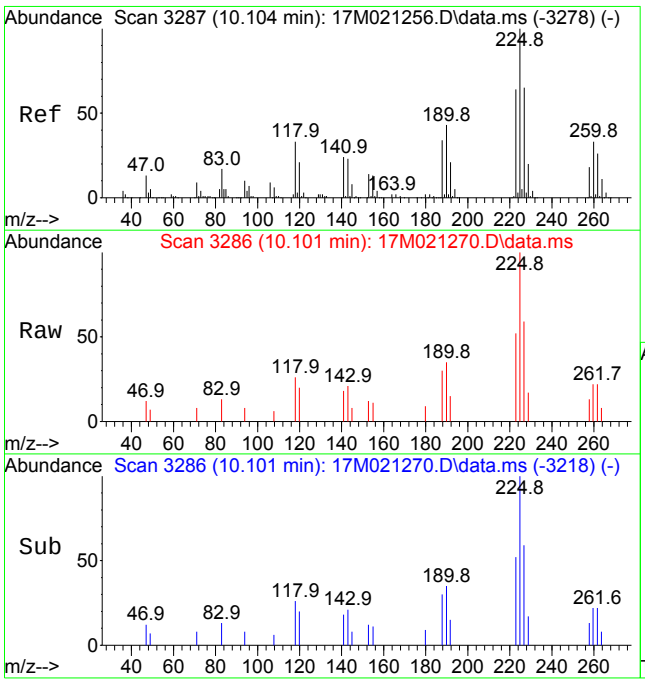


#81
1,2-Dichlorobenzene
Concen: 0.1816 ug/L
RT: 9.429 min Scan# 3054
Delta R.T. 0.000 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:146 Resp: 1734

Ion	Ratio	Lower	Upper
146	100		
111	40.1	23.1	53.9

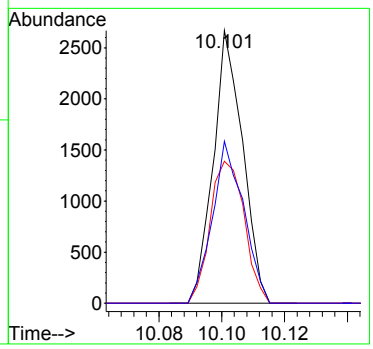


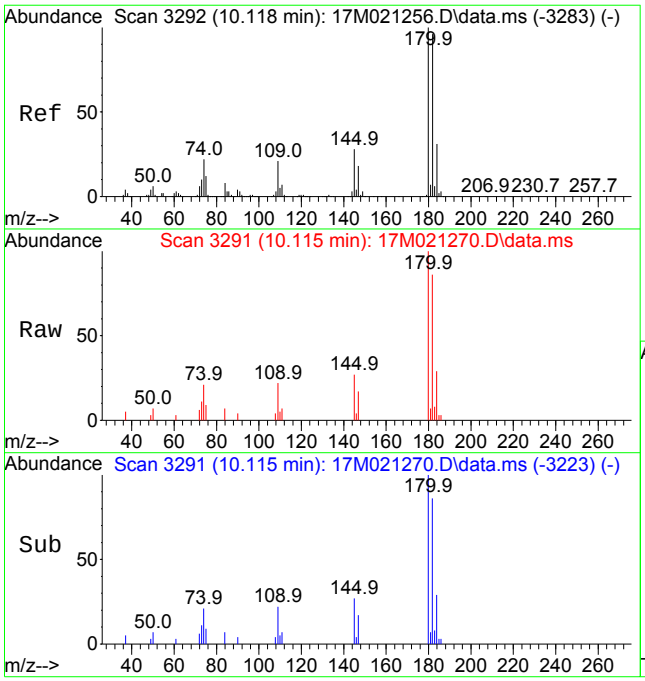


#83
Hexachlorobutadiene
Concen: 0.4682 ug/L
RT: 10.101 min Scan# 3286
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:225 Resp: 1737

Ion	Ratio	Lower	Upper
225	100		
223	60.5	50.1	75.1
227	63.2	51.8	77.8

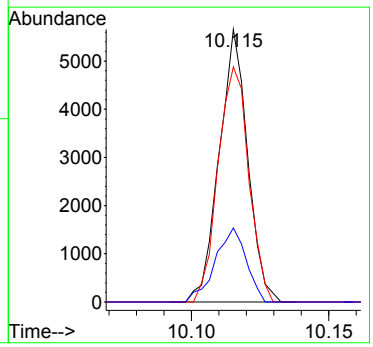


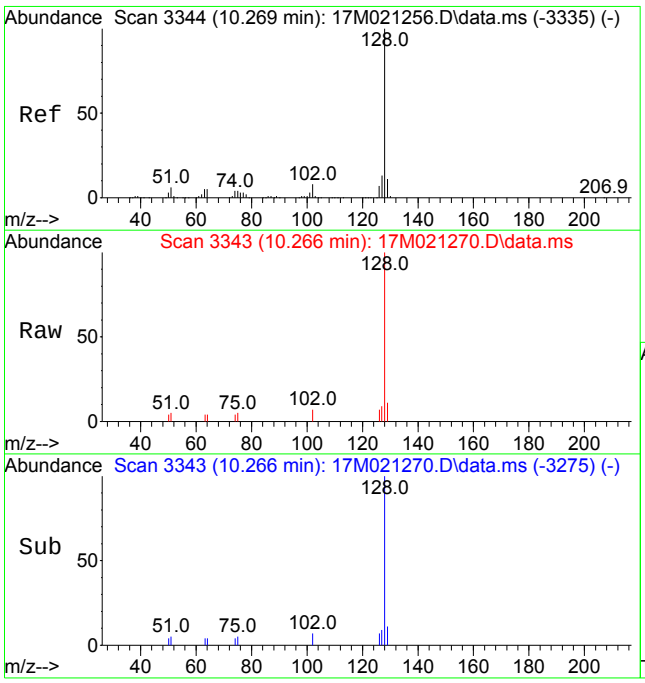


#84
1,2,4-Trichlorobenzene
Concen: 0.5746 ug/L
RT: 10.115 min Scan# 3291
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:180 Resp: 4063

Ion	Ratio	Lower	Upper
180	100		
182	92.6	57.5	134.1
145	29.5	19.4	45.2

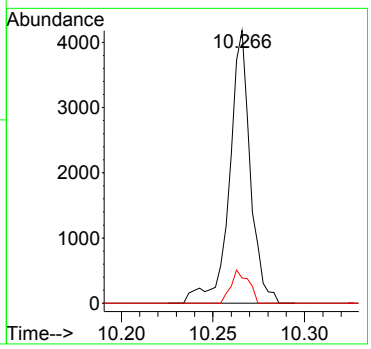


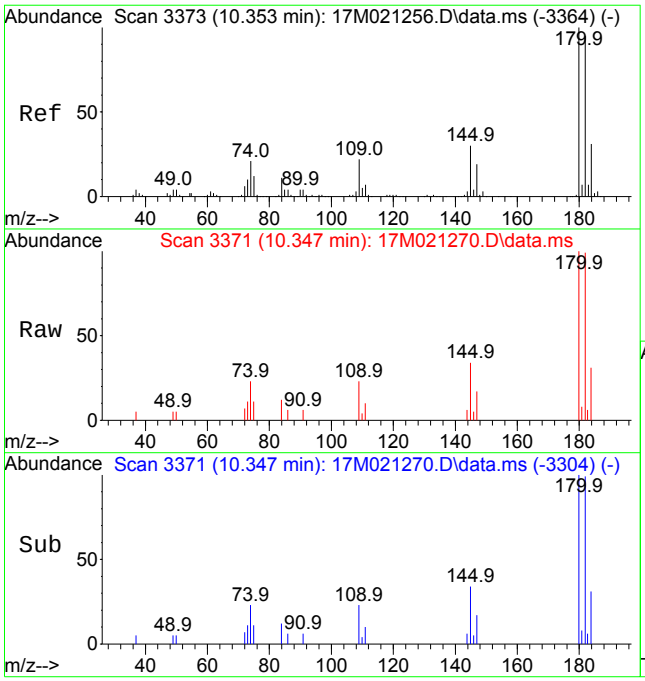


#85
Naphthalene
Concen: 0.3056 ug/L
RT: 10.266 min Scan# 3343
Delta R.T. -0.003 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:128 Resp: 3298

Ion	Ratio	Lower	Upper
128	100		
127	10.2	7.8	18.2

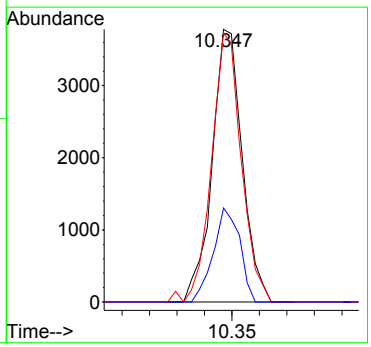




#86
1,2,3-Trichlorobenzene
Concen: 0.4614 ug/L
RT: 10.347 min Scan# 3371
Delta R.T. -0.006 min
Lab File: 17M021270.D
Acq: 20 May 2016 20:48

Tgt Ion:180 Resp: 2861

Ion	Ratio	Lower	Upper
180	100		
182	97.8	57.4	134.0
145	30.4	17.8	41.4



Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052116\17M021298.D Vial: 3
Acq On : 21 May 2016 15:23 Operator: jds
Sample : WG569789-01 BLK 8260 Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:24:31 2016

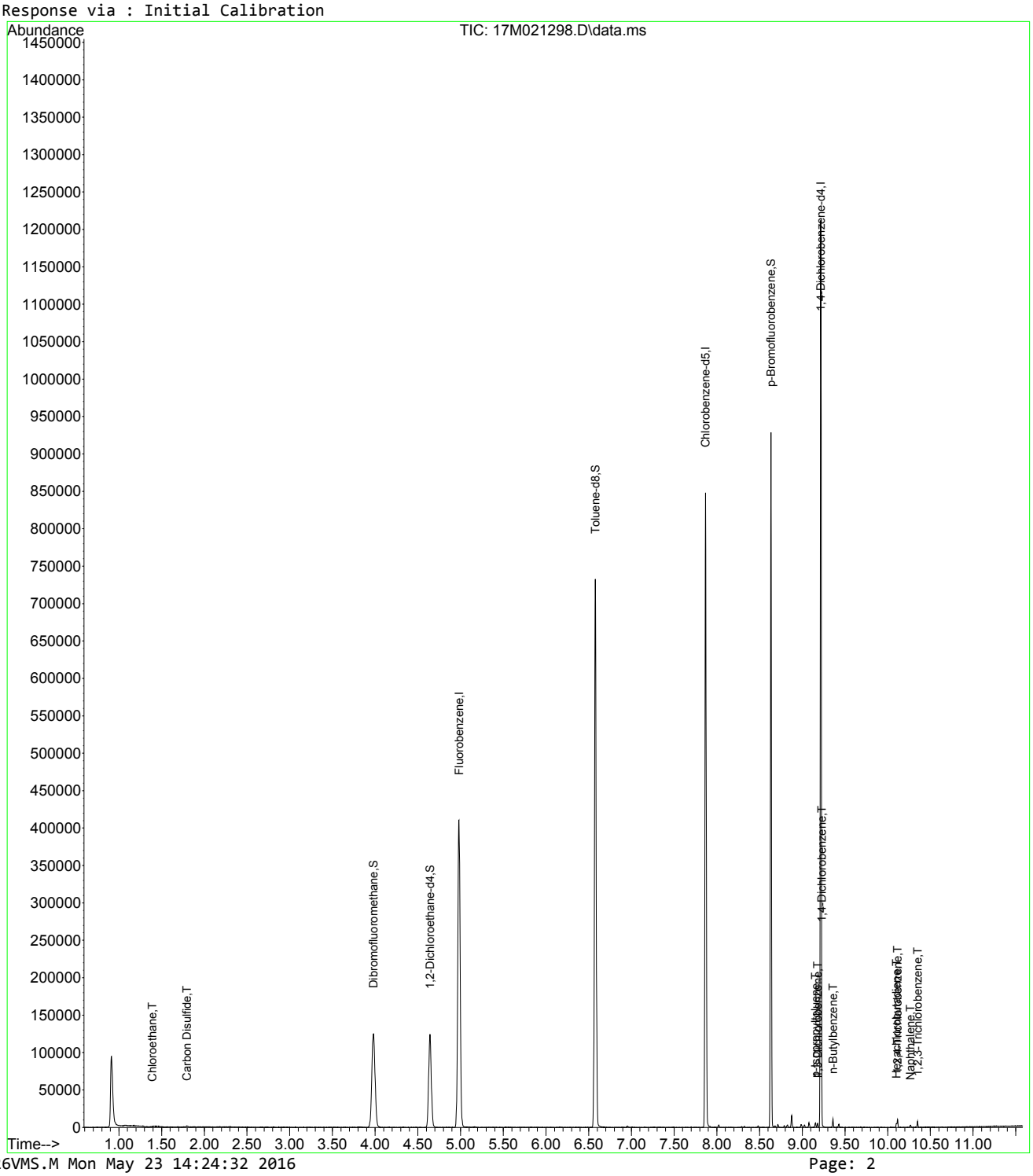
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

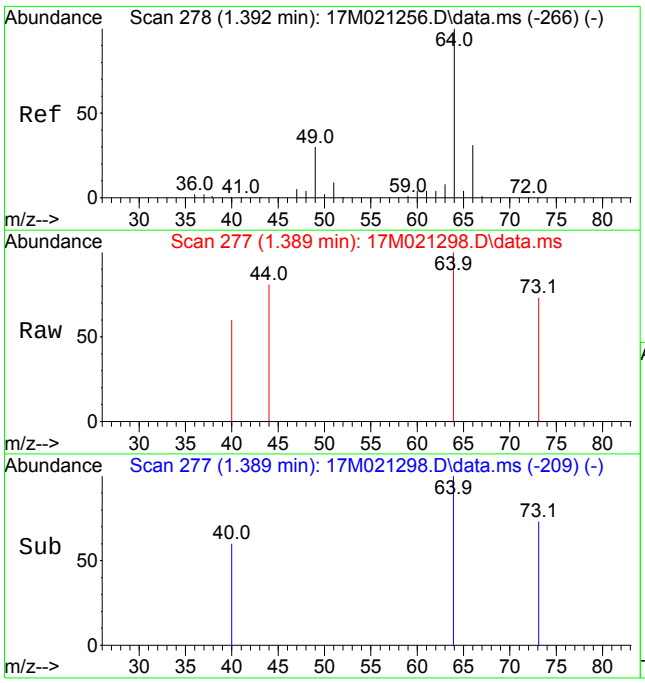
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.982	96	388402	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	293268	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	162257	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.980	111	102074	24.8134 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.254%		
34) 1,2-Dichloroethane-d4	4.640	65	99435	26.1419 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 104.568%		
47) Toluene-d8	6.577	98	409266	26.1317 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.527%		
66) p-Bromofluorobenzene	8.633	95	147759	26.3382 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.353%		
Target Compounds					Qvalue
7) Chloroethane	1.389	64	334	0.1473 ug/L #	45
11) Carbon Disulfide	1.797	76	1706	0.1422 ug/L #	73
77) p-Isopropyltoluene	9.154	119	2174	0.1269 ug/L	100
78) 1,3-Dichlorobenzene	9.180	146	1303	0.1265 ug/L	97
79) 1,4-Dichlorobenzene	9.226	146	1529	0.1439 ug/L #	66
80) n-Butylbenzene	9.360	91	3174	0.1988 ug/L	98
83) Hexachlorobutadiene	10.104	225	606	0.1615 ug/L	99
84) 1,2,4-Trichlorobenzene	10.115	180	2011	0.2813 ug/L	93
85) Naphthalene	10.266	128	1626	0.1490 ug/L	89
86) 1,2,3-Trichlorobenzene	10.350	180	1513	0.2413 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052116\17M021298.D Vial: 3
Acq On : 21 May 2016 15:23 Operator: jds
Sample : WG569789-01 BLK 8260 Inst : HPMS17
Misc : 1,1 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:24:31 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

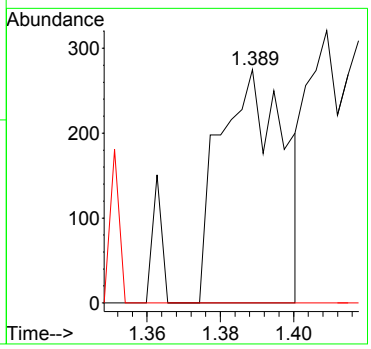


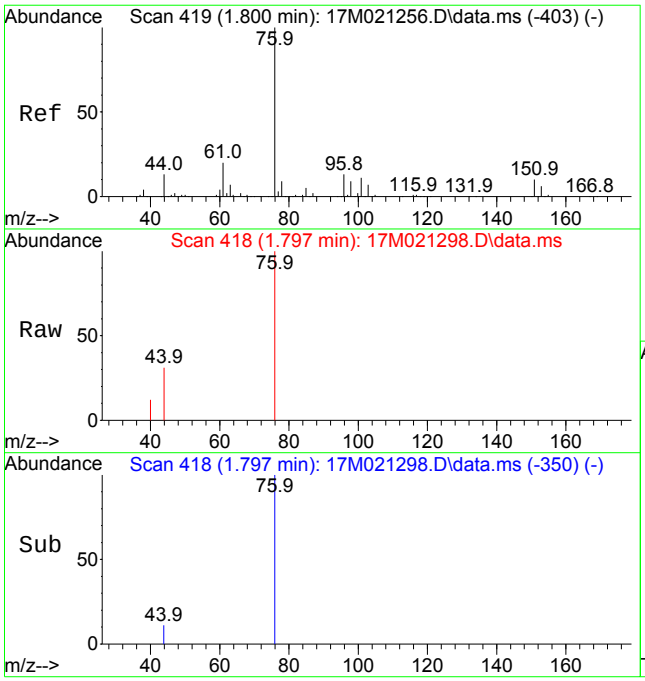


#7
Chloroethane
Concen: 0.1473 ug/L
RT: 1.389 min Scan# 277
Delta R.T. -0.003 min
Lab File: 17M021298.D
Acq: 21 May 2016 15:23

Tgt Ion: 64 Resp: 334

Ion	Ratio	Lower	Upper
64	100		
49	0.0	17.6	41.0#

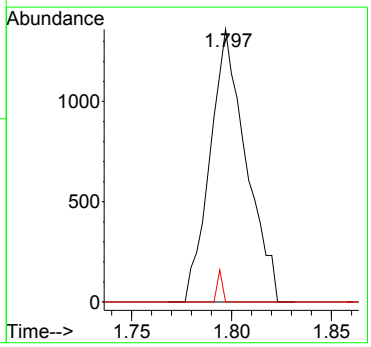


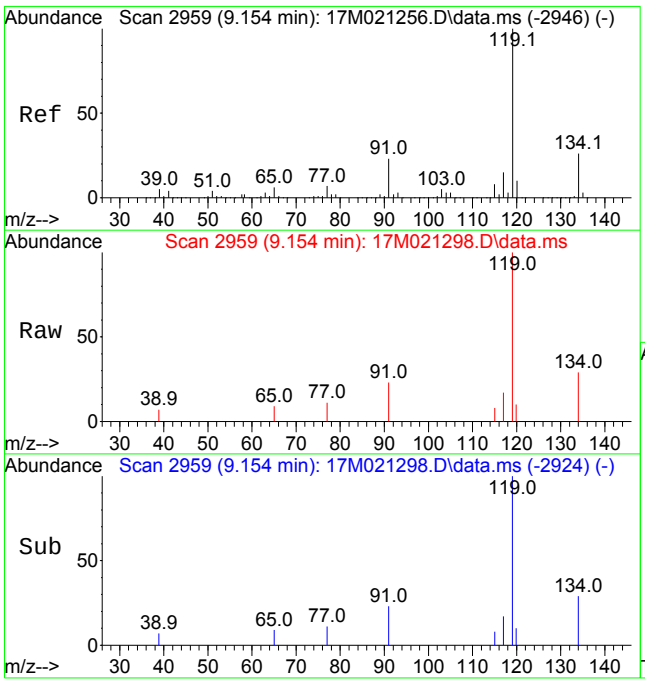


#11
Carbon Disulfide
Concen: 0.1422 ug/L
RT: 1.797 min Scan# 418
Delta R.T. -0.003 min
Lab File: 17M021298.D
Acq: 21 May 2016 15:23

Tgt Ion: 76 Resp: 1706

Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.9	11.9#

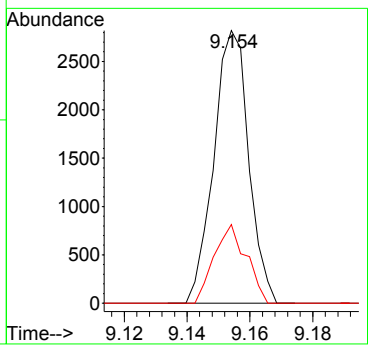


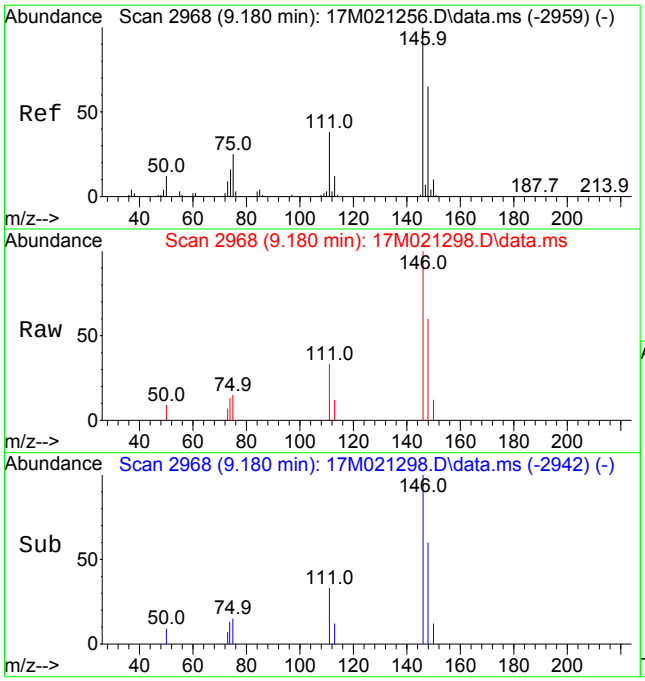


#77
p-Isopropyltoluene
Concen: 0.1269 ug/L
RT: 9.154 min Scan# 2959
Delta R.T. 0.000 min
Lab File: 17M021298.D
Acq: 21 May 2016 15:23

Tgt Ion:119 Resp: 2174

Ion	Ratio	Lower	Upper
119	100		
134	26.6	16.0	37.4

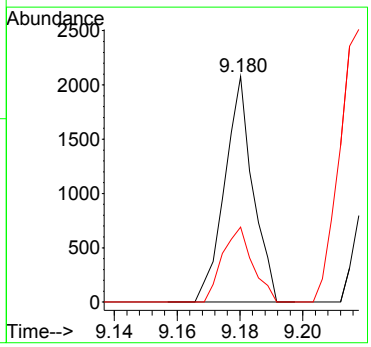


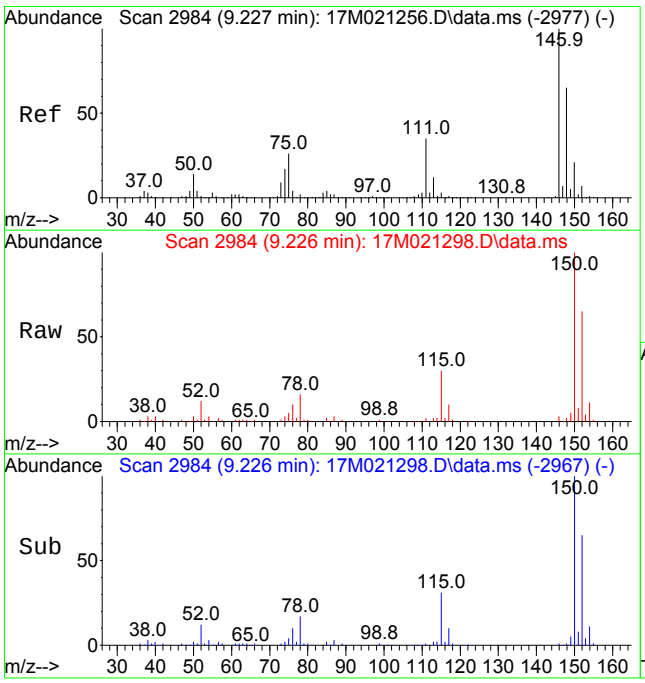


#78
1,3-Dichlorobenzene
Concen: 0.1265 ug/L
RT: 9.180 min Scan# 2968
Delta R.T. 0.000 min
Lab File: 17M021298.D
Acq: 21 May 2016 15:23

Tgt Ion:146 Resp: 1303

Ion	Ratio	Lower	Upper
146	100		
111	35.5	22.4	52.2

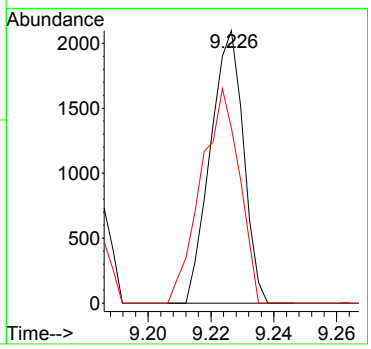


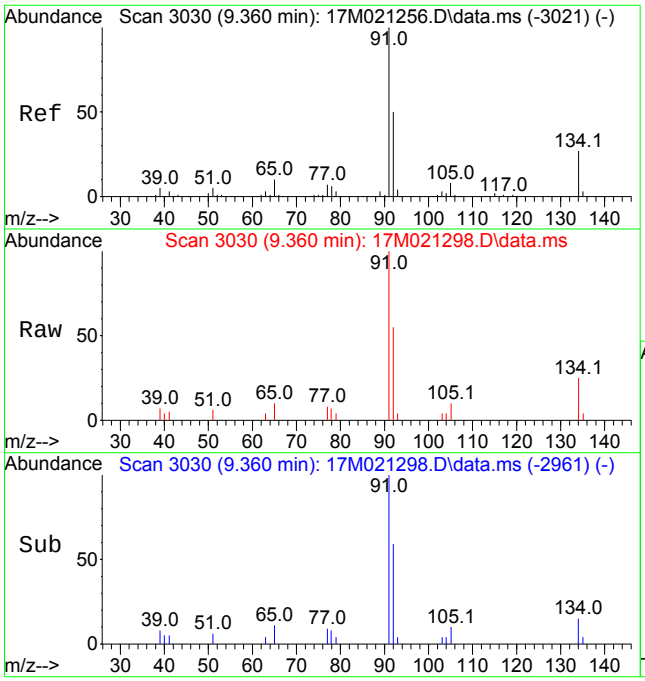


#79
1,4-Dichlorobenzene
Concen: 0.1439 ug/L
RT: 9.226 min Scan# 2984
Delta R.T. -0.001 min
Lab File: 17M021298.D
Acq: 21 May 2016 15:23

Tgt Ion:146 Resp: 1529

Ion	Ratio	Lower	Upper
146	100		
148	91.5	51.6	77.4#

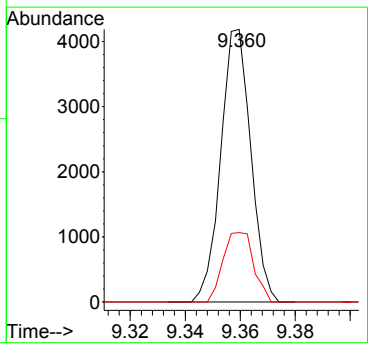


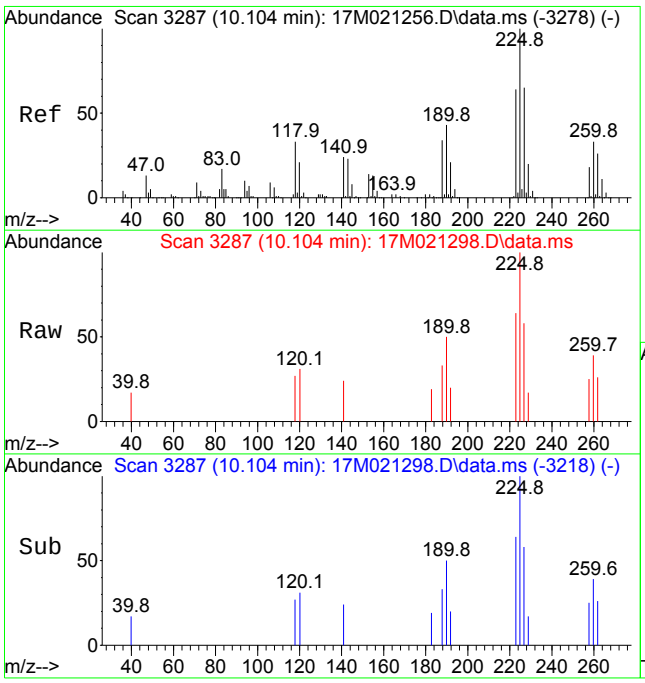


#80
n-Butylbenzene
Concen: 0.1988 ug/L
RT: 9.360 min Scan# 3030
Delta R.T. -0.000 min
Lab File: 17M021298.D
Acq: 21 May 2016 15:23

Tgt Ion: 91 Resp: 3174

Ion	Ratio	Lower	Upper
91	100		
134	25.9	16.1	37.5

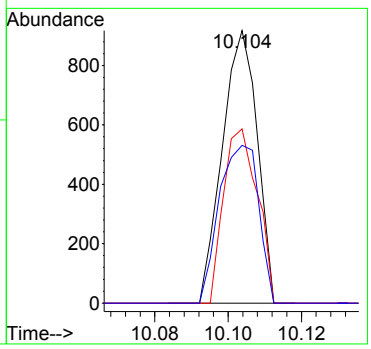


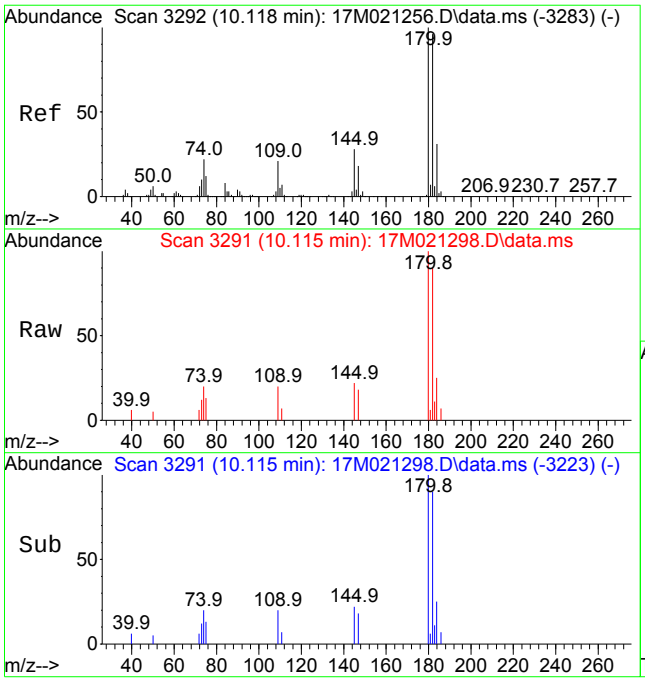


#83
Hexachlorobutadiene
Concen: 0.1615 ug/L
RT: 10.104 min Scan# 3287
Delta R.T. -0.000 min
Lab File: 17M021298.D
Acq: 21 May 2016 15:23

Tgt Ion:225 Resp: 606

Ion	Ratio	Lower	Upper
225	100		
223	62.0	50.1	75.1
227	65.5	51.8	77.8

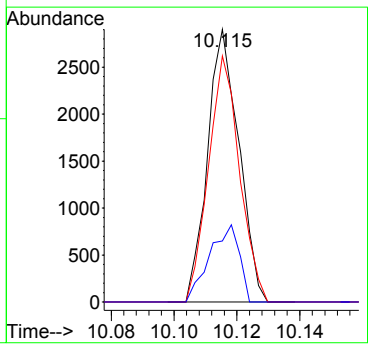


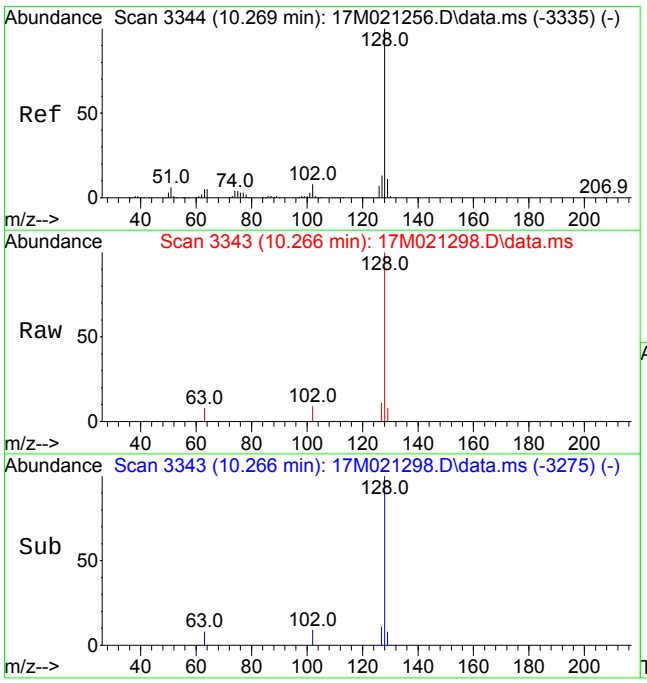


#84
1,2,4-Trichlorobenzene
Concen: 0.2813 ug/L
RT: 10.115 min Scan# 3291
Delta R.T. -0.003 min
Lab File: 17M021298.D
Acq: 21 May 2016 15:23

Tgt Ion:180 Resp: 2011

Ion	Ratio	Lower	Upper
180	100		
182	89.3	57.5	134.1
145	26.9	19.4	45.2

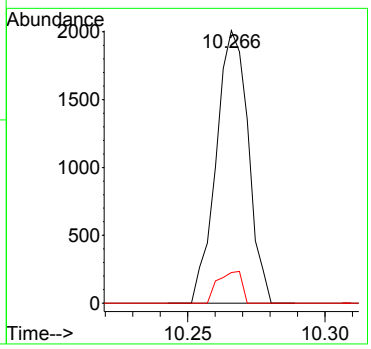


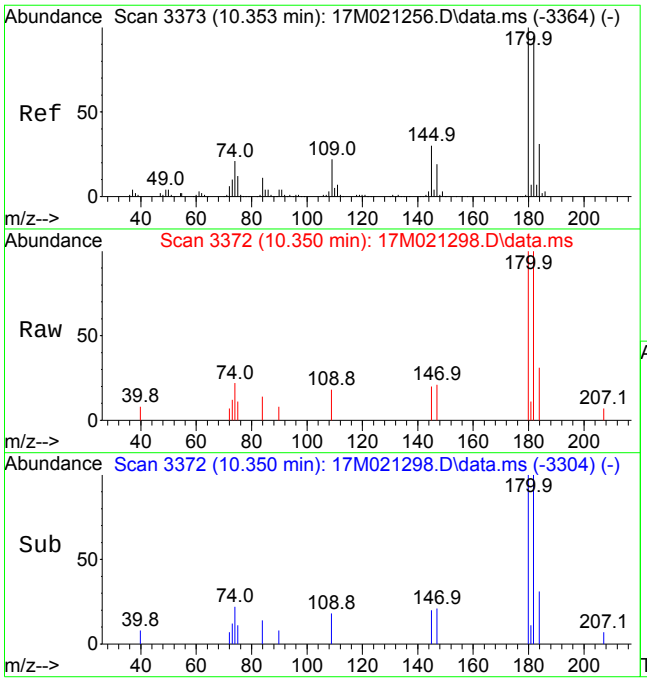


#85
Naphthalene
Concen: 0.1490 ug/L
RT: 10.266 min Scan# 3343
Delta R.T. -0.003 min
Lab File: 17M021298.D
Acq: 21 May 2016 15:23

Tgt Ion:128 Resp: 1626

Ion	Ratio	Lower	Upper
128	100		
127	8.7	7.8	18.2

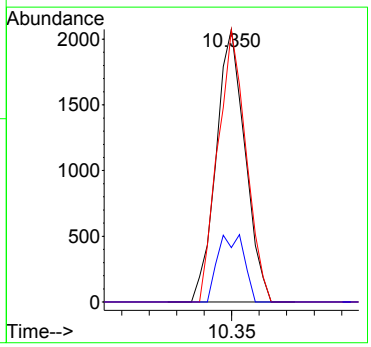




#86
1,2,3-Trichlorobenzene
Concen: 0.2413 ug/L
RT: 10.350 min Scan# 3372
Delta R.T. -0.003 min
Lab File: 17M021298.D
Acq: 21 May 2016 15:23

Tgt Ion:180 Resp: 1513

Ion	Ratio	Lower	Upper
180	100		
182	97.3	57.4	134.0
145	22.5	17.8	41.4



Data File : C:\MSDCHEM\1\DATA\052116\11M12019.D Vial: 5
Acq On : 21 May 2016 13:37 Operator: JDS
Sample : WG569786-02 20ug/L LCS STD 8260 Inst : hpms11
Misc : 1,1 STD76207 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 09:25:38 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.61	96	398729	25.00	ug/L	0.00
56) Chlorobenzene-d5	14.25	117	369904	25.00	ug/L	0.00
76) 1,4-Dichlorobenzene-d4	17.06	152	229064	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.63	111	127737	29.2722	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 117.08%			
43) 1,2-Dichloroethane-d4	10.23	65	148886	29.9229	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 119.68%			
57) Toluene-d8	12.47	98	403392	25.0985	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 100.40%			
78) p-Bromofluorobenzene	15.64	95	169752	24.0404	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 96.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.27	85	109272	17.4909	ug/L	99
3) Chloromethane	3.72	50	91195	18.2264	ug/L	99
4) Vinyl Chloride	3.96	62	90055	21.6732	ug/L	99
5) 1,3-Butadiene	3.99	54	85283	20.6414	ug/L	98
6) Bromomethane	4.85	94	57424	20.1002	ug/L	99
7) Chloroethane	5.00	64	55871	20.9275	ug/L	97
8) Trichlorofluoromethane	5.48	101	183616	22.1708	ug/L	99
9) Diethyl ether	6.01	59	311991	101.8603	ug/L	98
10) Isoprene	6.04	67	120839	23.6720	ug/L	95
11) Acrolein	6.23	56	33794	82.8970	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.25	101	86211	21.4527	ug/L	99
13) Acetone	6.34	43	22090	23.3311	ug/L	98
14) 1,1-Dichloroethene	6.56	61	144558	19.8040	ug/L	96
15) Tert-Butyl Alcohol	6.66	59	60428	230.7377	ug/L	100
16) Dimethyl Sulfide	6.81	62	115485	39.6161	ug/L	95
17) Iodomethane	7.06	142	96643	29.9577	ug/L	94
18) Methyl acetate	7.06	43	61719	20.1471	ug/L	99
19) Methylene Chloride	7.31	84	76843	20.3411	ug/L	99
20) Carbon Disulfide	7.36	76	254973	20.8648	ug/L	100
21) Acrylonitrile	7.49	53	30578	24.0876	ug/L	99
22) Methyl Tert Butyl Ether	7.53	73	230959	24.5122	ug/L	97
23) trans-1,2-Dichloroethene	7.74	96	82875	20.5143	ug/L	97
24) n-Hexane	7.82	57	131893	19.6018	ug/L	99
25) Diisopropyl ether	8.15	45	1823431	108.6036	ug/L	98
26) Vinyl Acetate	8.31	43	108549	18.2774	ug/L	99
27) 1,1-Dichloroethane	8.34	63	166362	20.5234	ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	1463524	107.0967	ug/L	99
29) 2-Butanone	8.87	43	32958	23.0255	ug/L	98
30) Propionitrile	8.97	54	46302	110.4446	ug/L	97
31) 2,2-Dichloropropane	9.09	77	139253	21.9567	ug/L	100
32) cis-1,2-Dichloroethene	9.15	96	92232	20.7061	ug/L	96
33) Chloroform	9.35	83	168906	21.2187	ug/L	100
34) 1-Bromopropane	9.48	122	24050	30.6414	ug/L	94
35) Bromochloromethane	9.57	130	61262	23.1580	ug/L	96
36) Tetrahydrofuran	9.60	42	96860	95.8288	ug/L	98
38) 1,1,1-Trichloroethane	9.85	97	180983	23.1038	ug/L	98
39) Cyclohexane	9.88	56	183715	21.5196	ug/L	100
40) 1,1-Dichloropropene	10.04	75	116391	20.8095	ug/L	96
41) Carbon Tetrachloride	10.18	117	176701	23.1003	ug/L	98
42) Tert-Amyl-Methyl ether	10.13	73	1079570	113.6911	ug/L	98

(#) = qualifier out of range (m) = manual integration
11M12019.D 8260WT.M Wed May 25 09:25:39 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\052116\11M12019.D Vial: 5
Acq On : 21 May 2016 13:37 Operator: JDS
Sample : WG569786-02 20ug/L LCS STD 8260 Inst : hpms11
Misc : 1,1 STD76207 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 09:25:38 2016 Quant Results File: 8260WT.RES

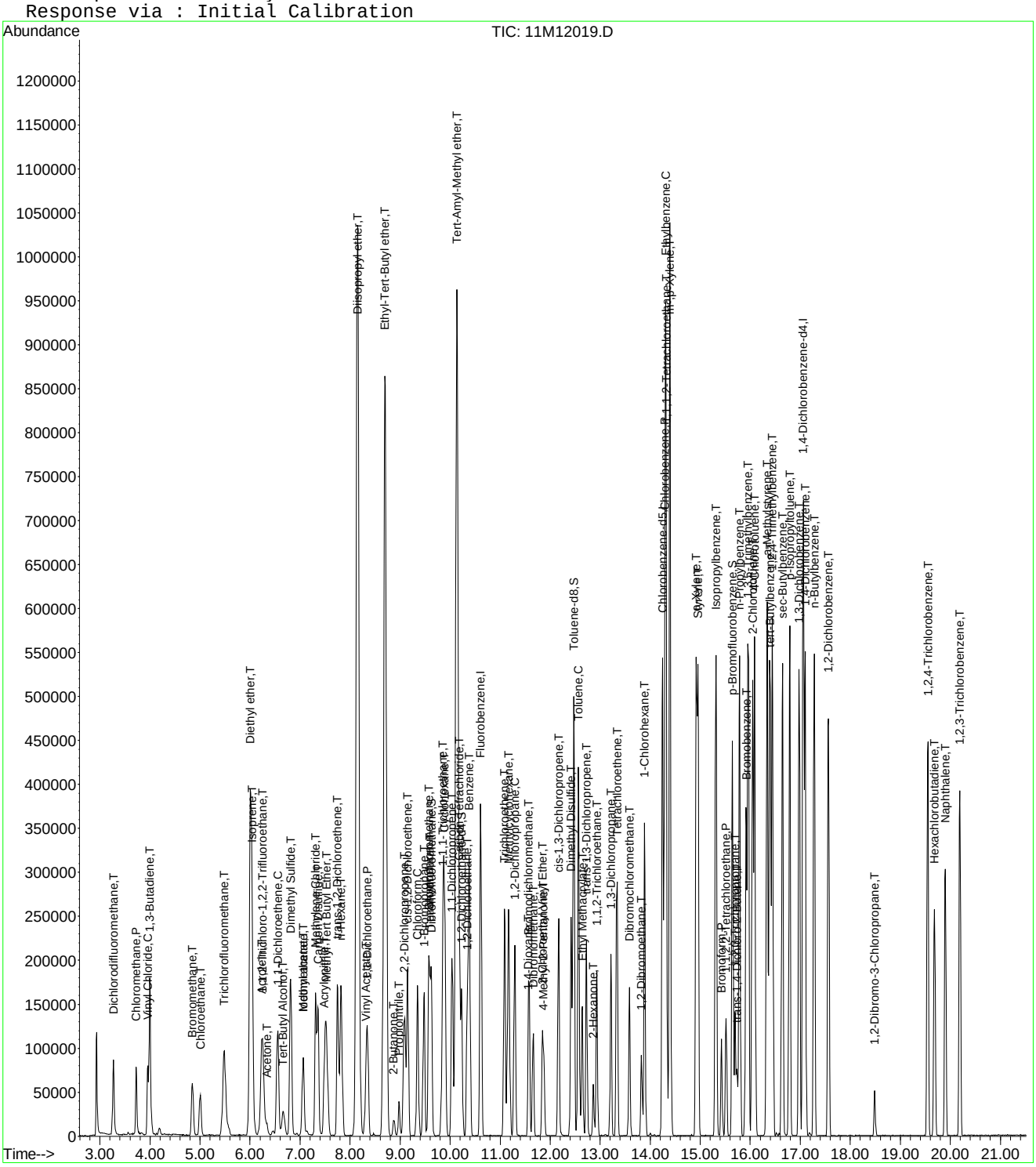
Quant Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44)	1,2-Dichloroethane	10.34	62	160464	24.8196	ug/L	96
45)	Benzene	10.38	78	303821	19.8426	ug/L	99
46)	Trichloroethene	11.08	130	109453	21.9925	ug/L	99
47)	Methylcyclohexane	11.17	83	126638	20.6182	ug/L	97
48)	1,2-Dichloropropane	11.29	63	87023	20.5318	ug/L	90
49)	1,4-Dioxane	11.56	88	3970	170.1410	ug/L	90
50)	Bromodichloromethane	11.57	83	137135	23.0474	ug/L	99
51)	Dibromomethane	11.66	93	50113	22.6891	ug/L	98
52)	2-Chloroethyl Vinyl Ether	11.85	63	45194	21.6348	ug/L	98
53)	4-Methyl-2-Pentanone	11.87	58	27019	22.9322	ug/L	97
54)	cis-1,3-Dichloropropene	12.17	75	143205	24.0626	ug/L	99
55)	Dimethyl Disulfide	12.42	79	79882	22.3055	ug/L	96
58)	Toluene	12.56	91	369623	19.7385	ug/L	100
59)	Ethyl Methacrylate	12.65	69	86036	21.5168	ug/L	99
60)	trans-1,3-Dichloropropene	12.73	75	128657	21.4047	ug/L	98
61)	1,1,2-Trichloroethane	12.93	97	70629	21.2703	ug/L	97
62)	2-Hexanone	12.86	43	50187	20.5790	ug/L	97
63)	1,3-Dichloropropane	13.21	76	114622	21.4955	ug/L	93
64)	Tetrachloroethene	13.34	164	83685	19.2172	ug/L	98
65)	Dibromochloromethane	13.59	129	113224	22.3552	ug/L	100
66)	1,2-Dibromoethane	13.82	107	71098	21.3710	ug/L	97
67)	1-Chlorohexane	13.89	91	119389	19.3378	ug/L	95
68)	Chlorobenzene	14.29	112	287897	20.9865	ug/L	100
69)	1,1,1,2-Tetrachloroethane	14.32	131	119422	21.5143	ug/L	100
70)	Ethylbenzene	14.31	106	139554	19.8387	ug/L	97
71)	m-,p-Xylene	14.39	106	345097	40.3536	ug/L	95
72)	o-Xylene	14.92	106	171999	20.6664	ug/L	96
73)	Styrene	14.95	104	288228	20.9613	ug/L	96
74)	Bromoform	15.43	173	66844	21.7756	ug/L	98
75)	Isopropylbenzene	15.31	105	470433	21.3738	ug/L	99
77)	1,1,2,2-Tetrachloroethane	15.52	83	72484	20.3202	ug/L	99
79)	1,2,3-Trichloropropane	15.70	110	29272	22.0761	ug/L	82
80)	trans-1,4-Dichloro-2-Buten	15.74	53	26147	15.7252	ug/L	80
81)	n-Propylbenzene	15.79	91	544441	20.5232	ug/L	99
82)	Bromobenzene	15.92	156	135917	19.5253	ug/L	99
83)	1,3,5-Trimethylbenzene	15.95	105	412692	20.3862	ug/L	99
84)	2-Chlorotoluene	16.05	91	376846	20.2815	ug/L	99
85)	4-Chlorotoluene	16.09	91	348784	20.9558	ug/L	99
86)	a-Methylstyrene	16.34	118	227945	21.3443	ug/L	99
87)	tert-Butylbenzene	16.40	134	88369	20.6043	ug/L	98
88)	1,2,4-Trimethylbenzene	16.44	105	425730	20.6524	ug/L	98
89)	sec-Butylbenzene	16.65	105	483706	19.8995	ug/L	99
90)	p-Isopropyltoluene	16.79	119	450552	20.1799	ug/L	99
91)	1,3-Dichlorobenzene	16.98	146	276262	20.5485	ug/L	99
92)	1,4-Dichlorobenzene	17.10	146	280034	20.5492	ug/L	98
93)	n-Butylbenzene	17.28	91	377513	19.1884	ug/L	99
94)	1,2-Dichlorobenzene	17.57	146	259328	21.1746	ug/L	100
95)	1,2-Dibromo-3-Chloropropan	18.49	75	16399	20.7736	ug/L	91
96)	1,2,4-Trichlorobenzene	19.55	180	175441	19.5768	ug/L	98
97)	Hexachlorobutadiene	19.69	225	64744	16.3990	ug/L	96
98)	Naphthalene	19.90	128	311051	18.6997	ug/L	100
99)	1,2,3-Trichlorobenzene	20.19	180	158398	19.2588	ug/L	99

(#) = qualifier out of range (m) = manual integration
11M12019.D 8260WT.M Wed May 25 09:25:39 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\052116\11M12019.D Vial: 5
Acq On : 21 May 2016 13:37 Operator: JDS
Sample : WG569786-02 20ug/L LCS STD 8260 Inst : hpms11
Misc : 1,1 STD76207 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 9:25 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\1\METHODS\8260WT.M (RTE Integrator)
Title : 8260B/624 (SOP: OVL MSV01) Water 051316 HPMS11
Last Update : Sat May 14 18:45:57 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\MassHunter\GCMS\1\data\052016\17M021271.D Vial: 17
Acq On : 20 May 2016 21:07 Operator: ADC
Sample : WG569773-02 20ug/L LCS 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:20 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	4.982	96	357568	25.00000 ug/L	0.0000
46) Chlorobenzene-d5	7.869	117	273038	25.00000 ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	151540	25.00000 ug/L	0.0000
System Monitoring Compounds					
29) Dibromofluoromethane	3.983	111	100746	26.6025 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.410%		
34) 1,2-Dichloroethane-d4	4.640	65	95101	27.1585 ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 108.634%		
47) Toluene-d8	6.577	98	376023	25.7880 ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.152%		
66) p-Bromofluorobenzene	8.633	95	138324	26.4001 ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 105.600%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	0.995	85	73654	14.1607 ug/L	100
3) Chloromethane	1.102	50	81618	17.5412 ug/L	99
4) Vinyl Chloride	1.146	62	85399	18.3384 ug/L	99
5) 1,3-Butadiene	1.154	54	71546	19.0587 ug/L	98
6) Bromomethane	1.322	94	51717	17.5466 ug/L	99
7) Chloroethane	1.389	64	33871	16.2218 ug/L	94
8) Trichlorofluoromethane	1.461	101	83681	13.5834 ug/L	96
9) Diethyl ether	1.670	59	230265	96.3942 ug/L	99
10) 1,1-Dichloroethene	1.780	61	100922	17.3161 ug/L	99
11) Carbon Disulfide	1.794	76	225200	20.3863 ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.809	101	68512	19.1159 ug/L	99
13) Iodomethane	1.872	142	66489	13.0531 ug/L	100
14) Acrolein	2.014	56	23729	56.0557 ug/L	100
15) Methylene Chloride	2.182	84	73232	18.7776 ug/L	100
16) Acetone	2.240	43	14449	25.5487 ug/L	99
17) trans-1,2-Dichloroethene	2.304	96	72064	18.9624 ug/L	99
18) Methyl acetate	2.336	43	48155	26.3503 ug/L #	90
19) Methyl Tert Butyl Ether	2.414	73	186874	22.7216 ug/L #	38
20) 1,1-Dichloroethane	2.834	63	130523	18.3291 ug/L	100
21) Acrylonitrile	2.892	53	18206	23.4298 ug/L	100
22) Vinyl Acetate	3.115	86	6031	27.8873 ug/L #	1
23) cis-1,2-Dichloroethene	3.395	96	85141	20.0920 ug/L	99
24) 2,2-Dichloropropane	3.514	77	101925	18.0655 ug/L	100
25) Cyclohexane	3.607	56	128412	21.2780 ug/L #	75
26) Bromochloromethane	3.621	130	50955	19.7676 ug/L	99
27) Chloroform	3.743	83	135415	19.1433 ug/L	99
28) Carbon Tetrachloride	3.882	117	105343	19.6777 ug/L	99
30) 1,1,1-Trichloroethane	3.977	97	120924	19.1457 ug/L	100
31) 1,1-Dichloropropene	4.154	75	97428	18.8686 ug/L	100
32) 2-Butanone	4.186	43	22090	24.6797 ug/L	91
33) Benzene	4.470	78	303614	19.3936 ug/L	100
35) 1,2-Dichloroethane	4.724	62	91320	20.5993 ug/L	100
36) Methylcyclohexane	5.138	83	130749	20.9840 ug/L	100
37) Trichloroethene	5.167	130	103853	19.6221 ug/L	99
38) Dibromomethane	5.596	93	42557	19.9679 ug/L	99
39) 1,2-Dichloropropane	5.703	63	84132	20.3973 ug/L	100
40) Bromodichloromethane	5.796	83	101369	20.2443 ug/L	100
41) 1,4-Dioxane	6.021	88	4732	229.7893 ug/L	99
42) 2-Chloroethyl Vinyl Ether	6.395	63	31947	21.7957 ug/L	98
43) cis-1,3-Dichloropropene	6.409	75	125121	22.7885 ug/L	100
44) 4-Methyl-2-Pentanone	7.003	58	19646	24.8328 ug/L	95
45) trans-1,3-Dichloropropene	7.017	75	96455	21.6482 ug/L	100
48) Toluene	6.624	91	341034	19.6431 ug/L	99
49) Tetrachloroethene	6.954	166	95498	18.9145 ug/L	99
50) 1,1,2-Trichloroethane	7.148	97	61786	21.5101 ug/L	99
51) Dibromochloromethane	7.290	129	80898	20.3702 ug/L	100

Data File : D:\MassHunter\GCMS\1\data\052016\17M021271.D Vial: 17
Acq On : 20 May 2016 21:07 Operator: ADC
Sample : WG569773-02 20ug/L LCS 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:20 2016

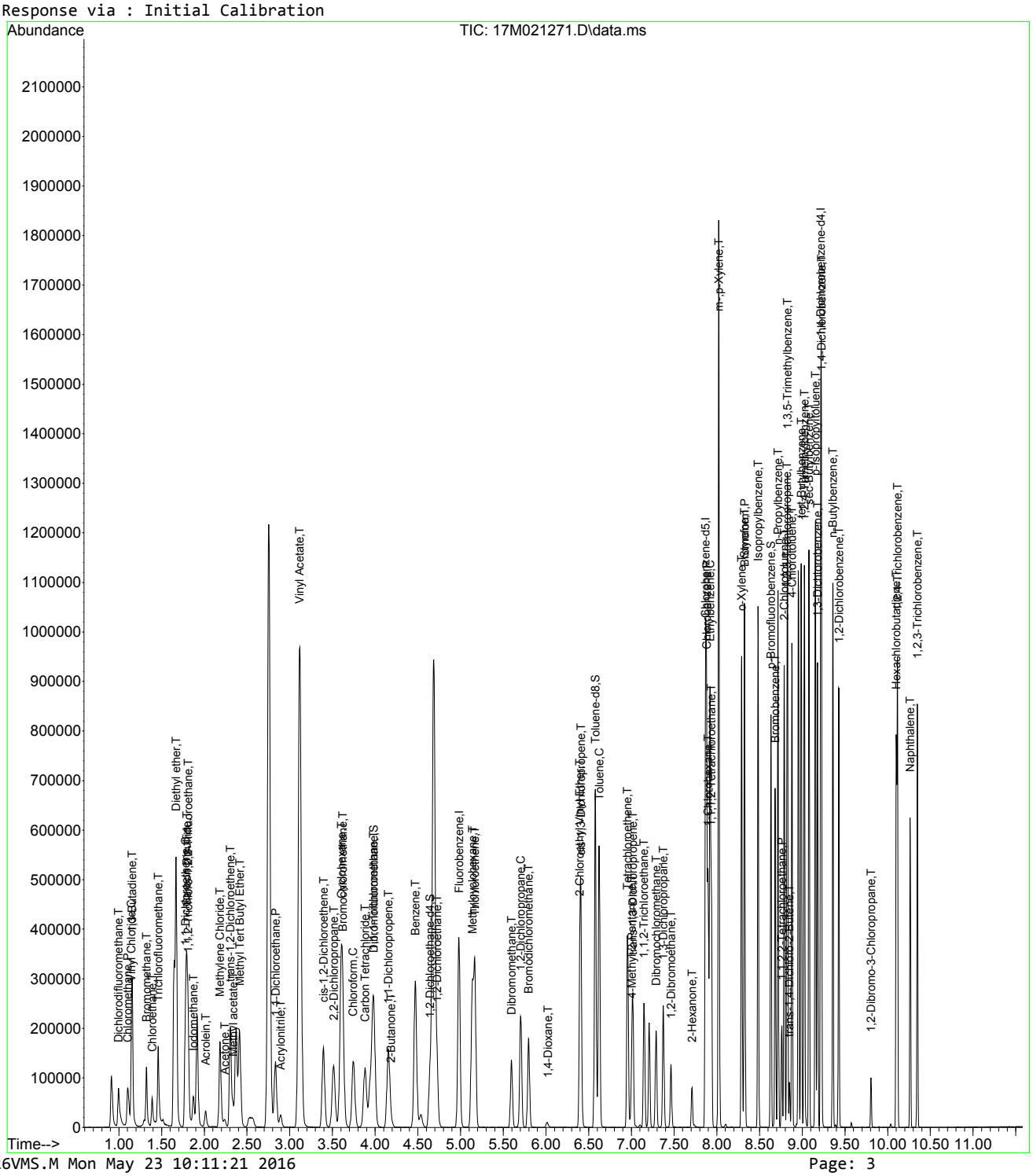
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52) 1,3-Dichloropropane	7.374	76	103155	22.3297	ug/L		100
53) 1,2-Dibromoethane	7.463	107	61184	21.2910	ug/L		99
54) 2-Hexanone	7.709	43	34993	24.4002	ug/L		98
55) Chlorobenzene	7.880	112	229976	20.1589	ug/L		100
56) 1-Chlorohexane	7.898	69	19681	20.8380	ug/L		99
57) Ethylbenzene	7.921	106	119475	19.9120	ug/L		99
58) 1,1,1,2-Tetrachloroethane	7.935	131	83469	20.9600	ug/L		99
59) m-,p-Xylene	8.022	106	292366	41.1517	ug/L		100
60) o-Xylene	8.291	106	143433	20.5710	ug/L		100
61) Styrene	8.323	104	233943	21.0378	ug/L		100
62) Bromoform	8.326	173	51223	20.1481	ug/L		100
63) Isopropylbenzene	8.482	105	378208	20.9383	ug/L		100
65) 1,3,5-Trimethylbenzene	8.827	105	322727	20.8626	ug/L		100
67) Bromobenzene	8.682	156	104864	19.8246	ug/L		100
68) n-Propylbenzene	8.717	91	436941	21.1811	ug/L		100
69) 1,1,2,2-Tetrachloroethane	8.760	83	51836	23.8266	ug/L		99
70) 2-Chlorotoluene	8.789	91	259731	20.4116	ug/L		100
71) 1,2,3-Trichloropropane	8.821	110	19557	22.6795	ug/L		98
72) trans-1,4-Dichloro-2-B...	8.850	53	8738	20.7149	ug/L	#	91
73) 1,2,4-Trimethylbenzene	9.024	105	318971	20.6052	ug/L		100
74) 4-Chlorotoluene	8.879	91	277617	21.0447	ug/L		100
75) tert-Butylbenzene	8.989	134	62384	21.4293	ug/L		99
76) sec-Butylbenzene	9.079	105	407893	21.2107	ug/L		100
77) p-Isopropyltoluene	9.154	119	338728	21.1697	ug/L		100
78) 1,3-Dichlorobenzene	9.180	146	199216	20.7127	ug/L		100
79) 1,4-Dichlorobenzene	9.224	146	199529	20.1034	ug/L		100
80) n-Butylbenzene	9.357	91	311813	20.9080	ug/L		100
81) 1,2-Dichlorobenzene	9.429	146	190087	21.0830	ug/L		100
82) 1,2-Dibromo-3-Chloropr...	9.806	75	11841	25.5870	ug/L		99
83) Hexachlorobutadiene	10.101	225	78913	22.5230	ug/L		100
84) 1,2,4-Trichlorobenzene	10.115	180	149384	22.3699	ug/L		100
85) Naphthalene	10.263	128	230248	22.5931	ug/L		100
86) 1,2,3-Trichlorobenzene	10.347	180	133878	22.8629	ug/L		99

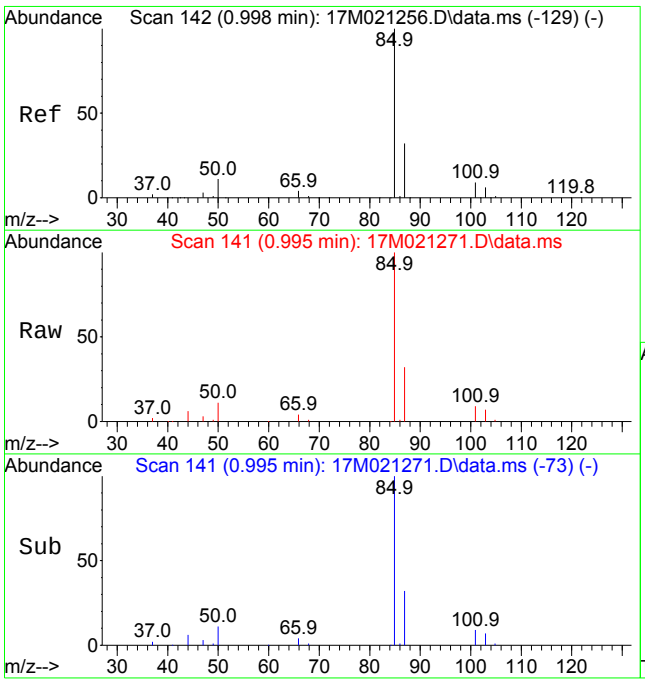
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052016\17M021271.D Vial: 17
Acq On : 20 May 2016 21:07 Operator: ADC
Sample : WG569773-02 20ug/L LCS 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 10:11:20 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



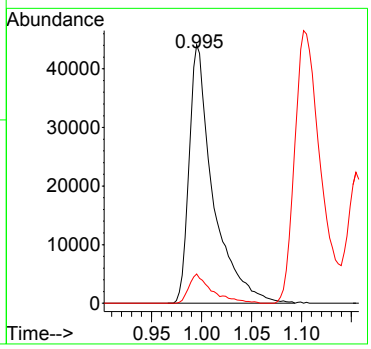
826VMS.M Mon May 23 10:11:21 2016 Page: 3

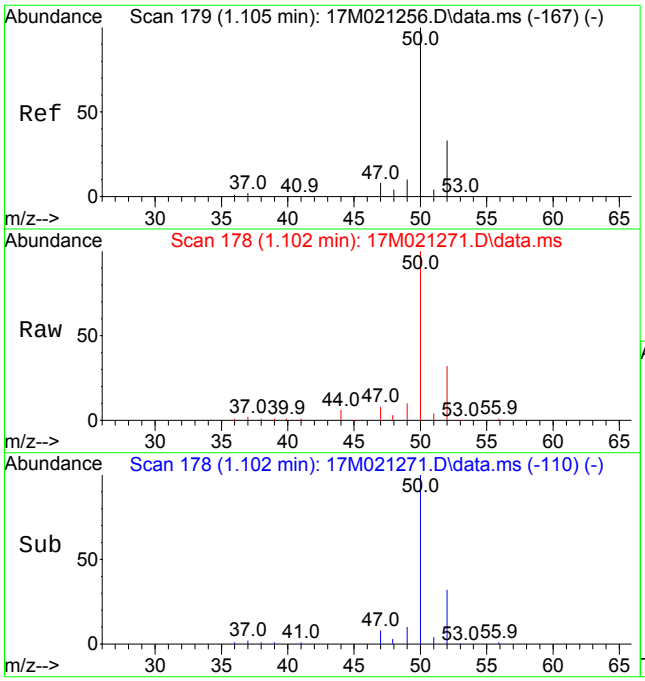


#2
Dichlorodifluoromethane
Concen: 14.1607 ug/L
RT: 0.995 min Scan# 141
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 85 Resp: 73654

Ion	Ratio	Lower	Upper
85	100		
50	10.9	6.5	15.3

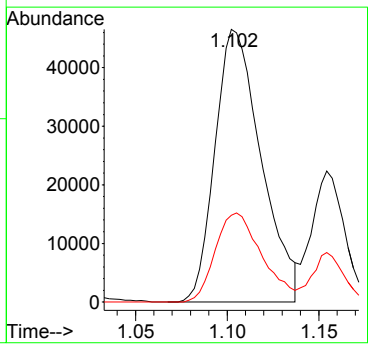


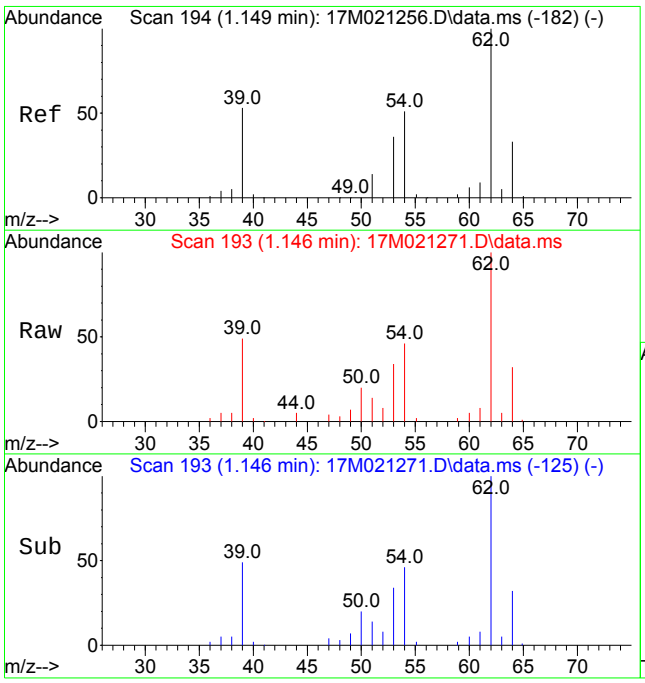


#3
Chloromethane
Concen: 17.5412 ug/L
RT: 1.102 min Scan# 178
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 50 Resp: 81618

Ion	Ratio	Lower	Upper
50	100		
52	32.9	19.4	45.4

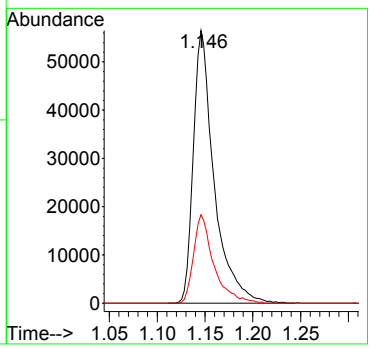


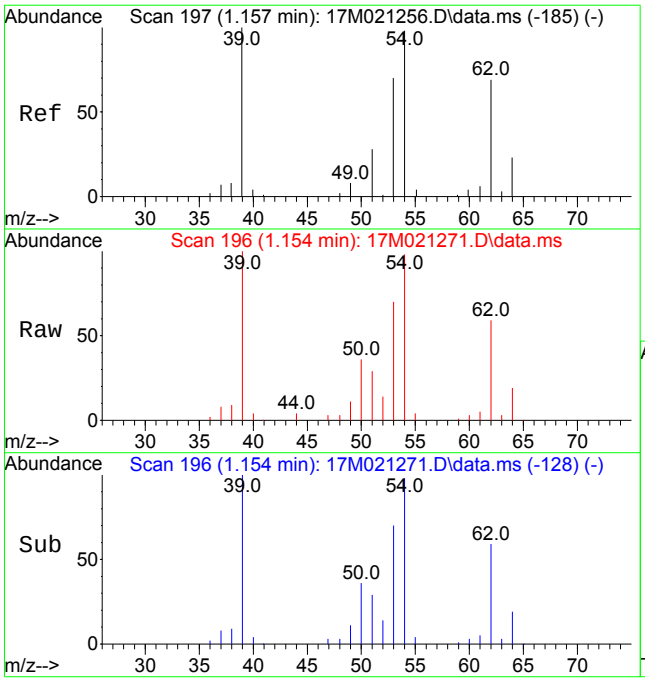


#4
Vinyl Chloride
Concen: 18.3384 ug/L
RT: 1.146 min Scan# 193
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 62 Resp: 85399

Ion	Ratio	Lower	Upper
62	100		
64	31.6	19.2	44.8

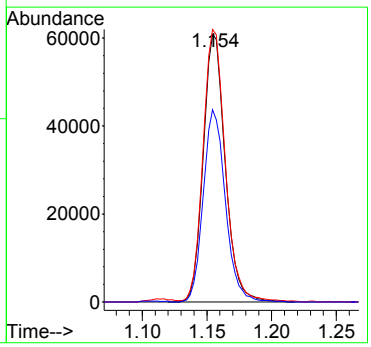


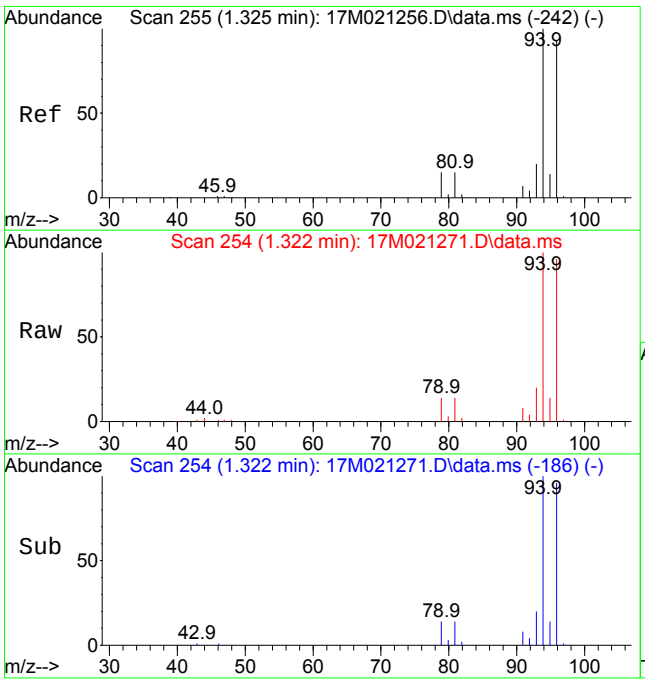


#5
1,3-Butadiene
Concen: 19.0587 ug/L
RT: 1.154 min Scan# 196
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 54 Resp: 71546

Ion	Ratio	Lower	Upper
54	100		
39	104.1	61.6	143.8
53	72.6	42.7	99.7

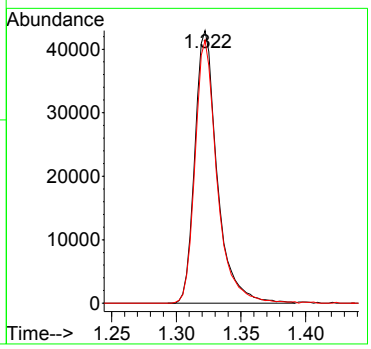


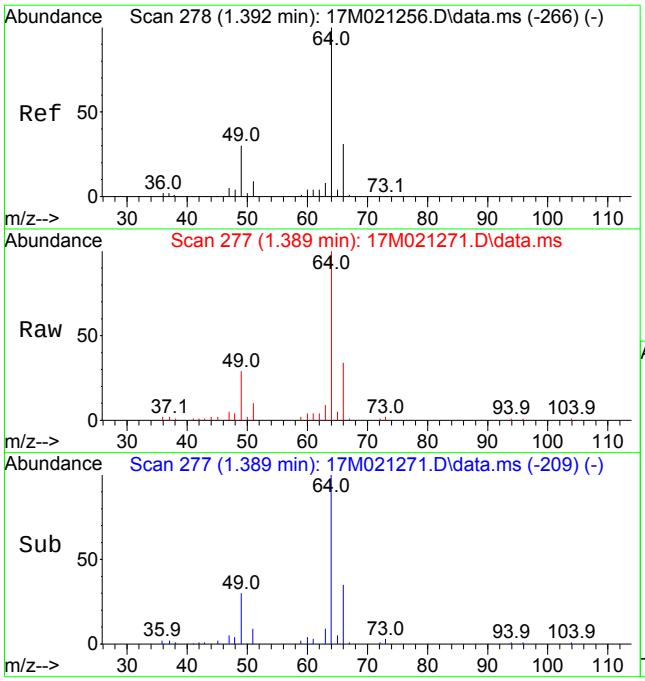


#6
Bromomethane
Concen: 17.5466 ug/L
RT: 1.322 min Scan# 254
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 94 Resp: 51717

Ion	Ratio	Lower	Upper
94	100		
96	95.1	56.6	132.0

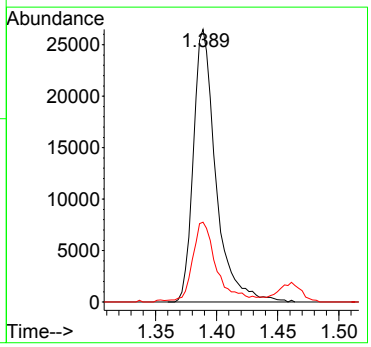


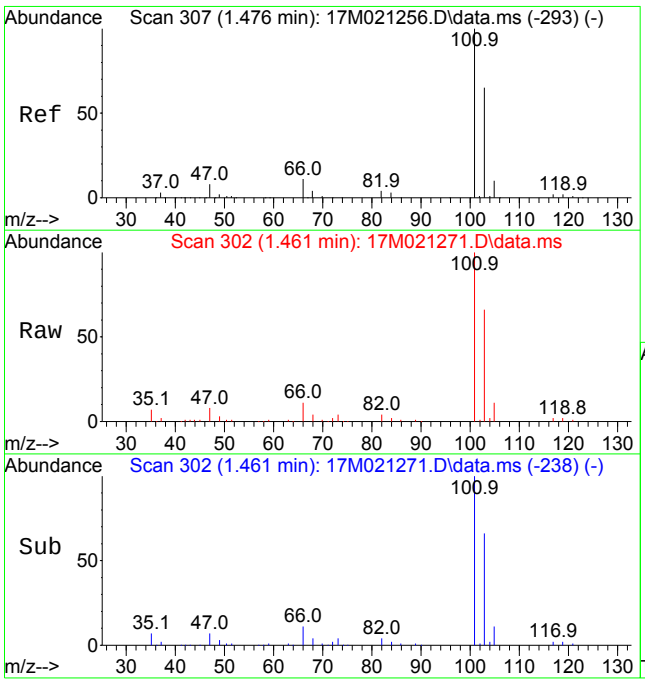


#7
Chloroethane
Concen: 16.2218 ug/L
RT: 1.389 min Scan# 277
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 64 Resp: 33871

Ion	Ratio	Lower	Upper
64	100		
49	32.5	17.6	41.0

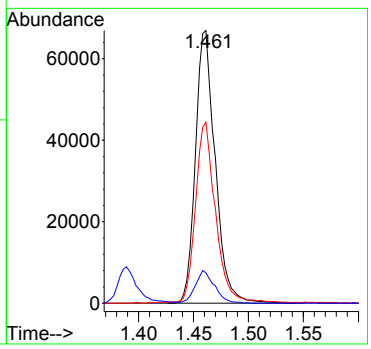


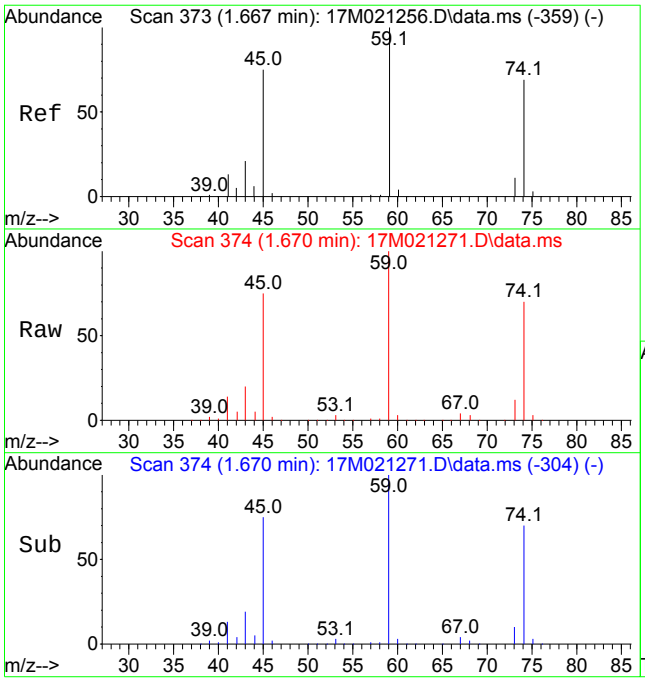


#8
Trichlorofluoromethane
Concen: 13.5834 ug/L
RT: 1.461 min Scan# 302
Delta R.T. -0.015 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:101 Resp: 83681

Ion	Ratio	Lower	Upper
101	100		
103	68.4	39.0	91.0
66	11.7	7.0	16.2

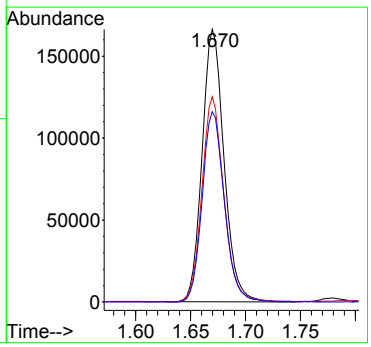


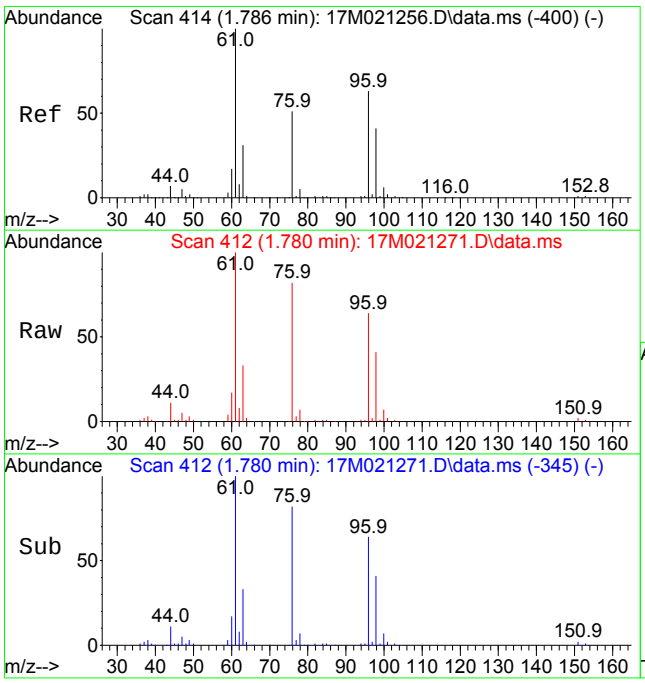


#9
Diethyl ether
Concen: 96.3942 ug/L
RT: 1.670 min Scan# 374
Delta R.T. 0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 59 Resp: 230265

Ion	Ratio	Lower	Upper
59	100		
45	74.9	45.8	107.0
74	70.8	42.4	98.8

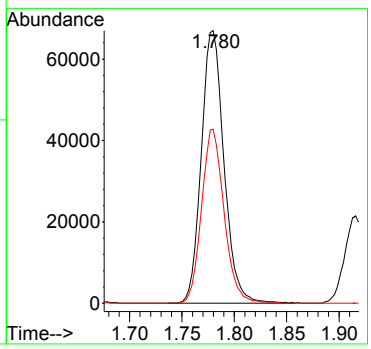


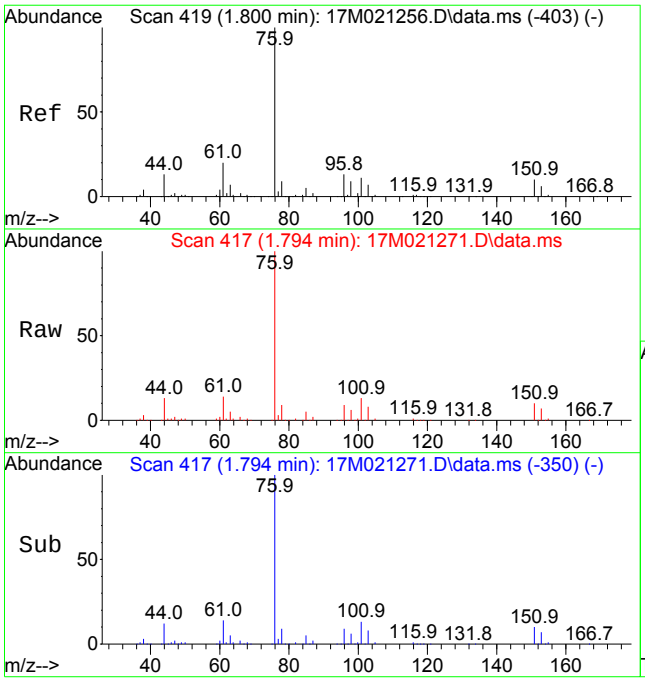


#10
1,1-Dichloroethene
Concen: 17.3161 ug/L
RT: 1.780 min Scan# 412
Delta R.T. -0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 61 Resp: 100922

Ion	Ratio	Lower	Upper
61	100		
96	63.3	50.2	75.4

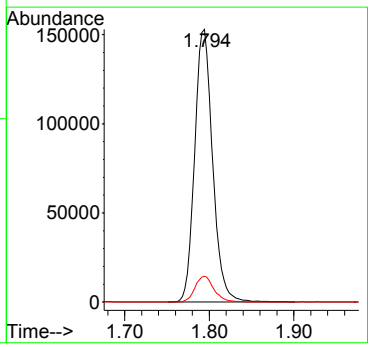


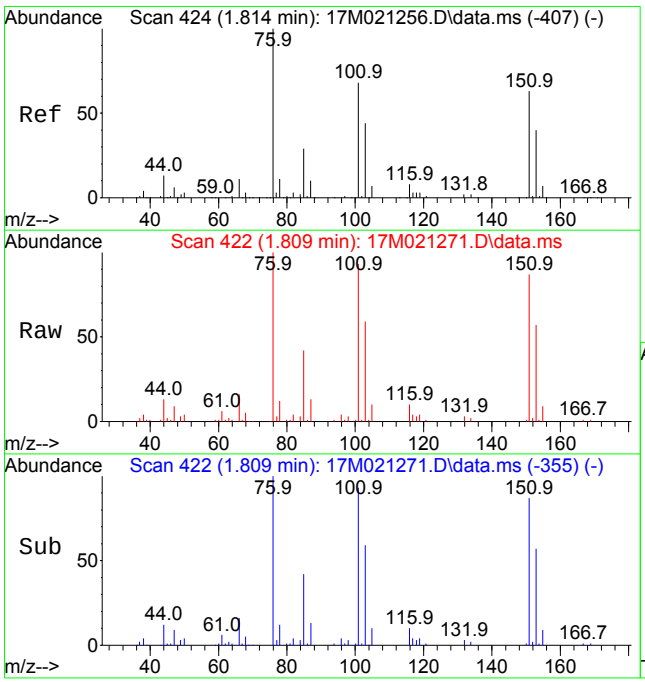


#11
Carbon Disulfide
Concen: 20.3863 ug/L
RT: 1.794 min Scan# 417
Delta R.T. -0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 76 Resp: 225200

Ion	Ratio	Lower	Upper
76	100		
78	9.9	7.9	11.9

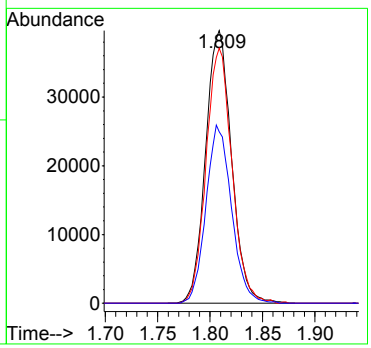


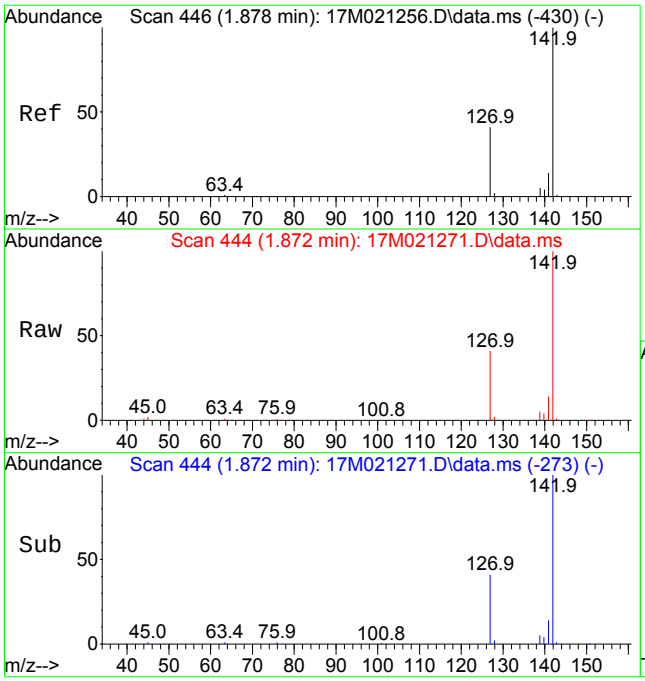


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 19.1159 ug/L
RT: 1.809 min Scan# 422
Delta R.T. -0.005 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:101 Resp: 68512

Ion	Ratio	Lower	Upper
101	100		
151	93.2	73.5	110.3
103	64.3	51.8	77.6

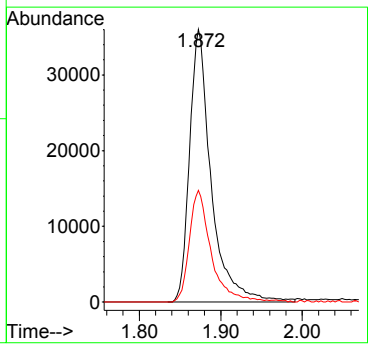


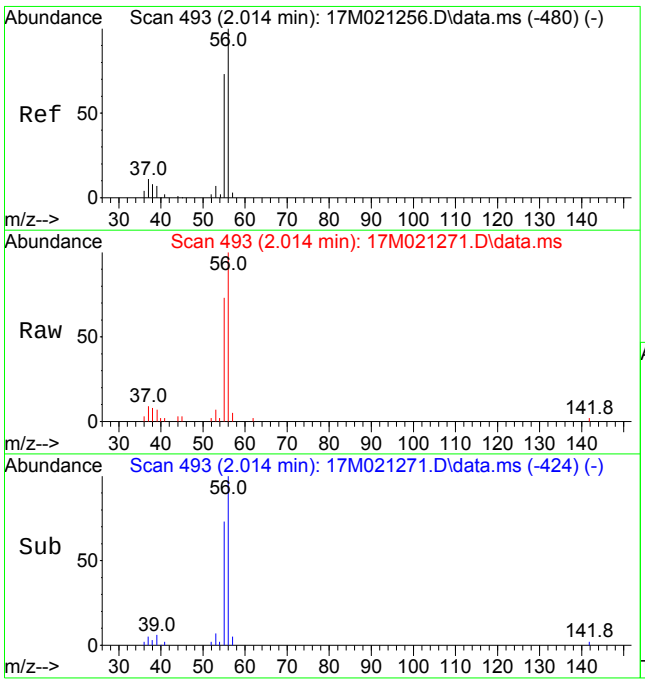


#13
Iodomethane
Concen: 13.0531 ug/L
RT: 1.872 min Scan# 444
Delta R.T. -0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:142 Resp: 66489

Ion	Ratio	Lower	Upper
142	100		
127	41.6	33.3	49.9

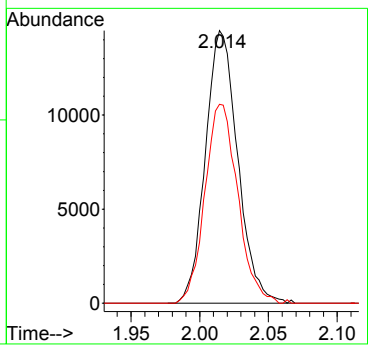


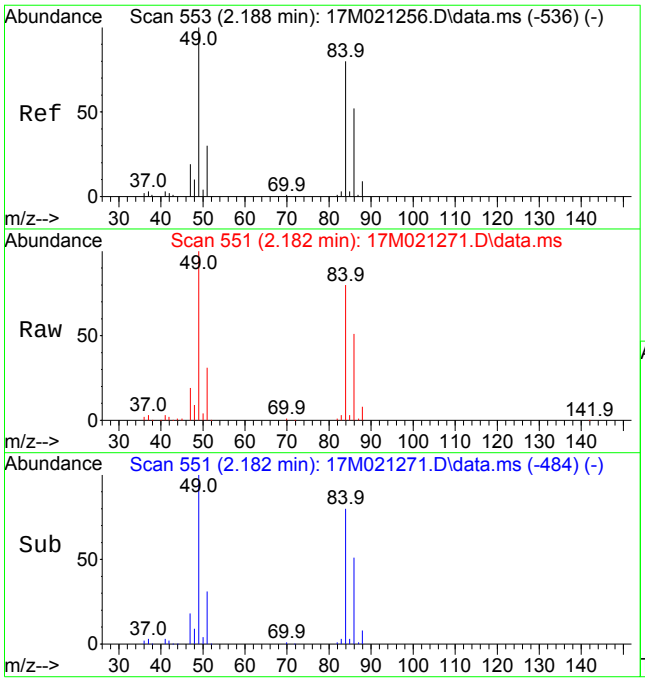


#14
Acrolein
Concen: 56.0557 ug/L
RT: 2.014 min Scan# 493
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 56 Resp: 23729

Ion	Ratio	Lower	Upper
56	100		
55	74.2	44.3	103.5

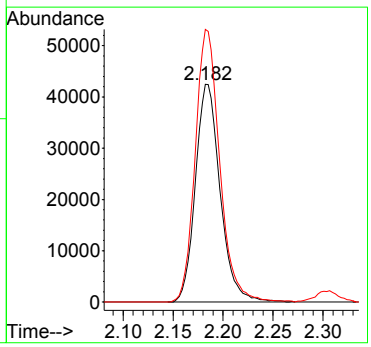


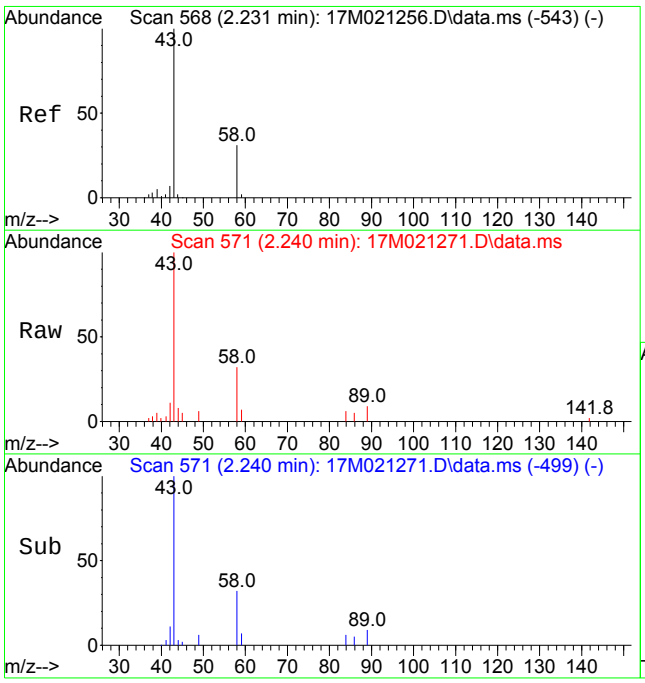


#15
Methylene Chloride
Concen: 18.7776 ug/L
RT: 2.182 min Scan# 551
Delta R.T. -0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 84 Resp: 73232

Ion	Ratio	Lower	Upper
84	100		
49	124.2	99.0	148.6

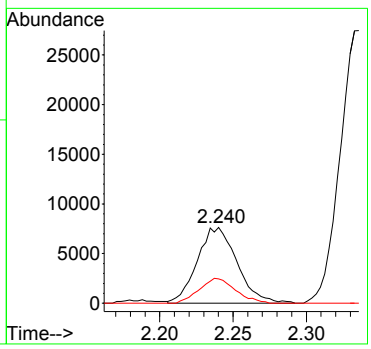


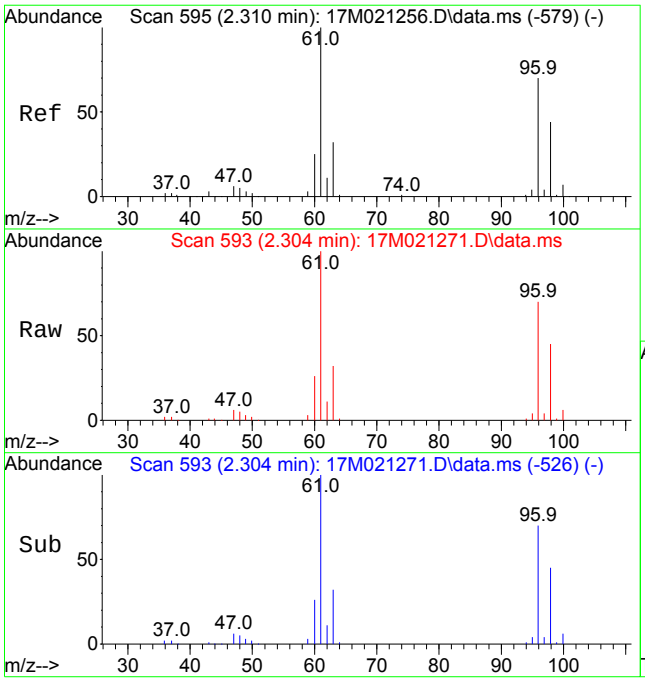


#16
Acetone
Concen: 25.5487 ug/L
RT: 2.240 min Scan# 571
Delta R.T. 0.009 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 43 Resp: 14449

Ion	Ratio	Lower	Upper
43	100		
58	29.7	17.6	41.2

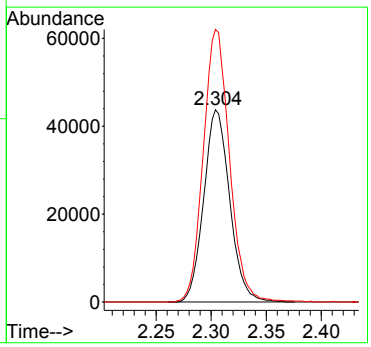


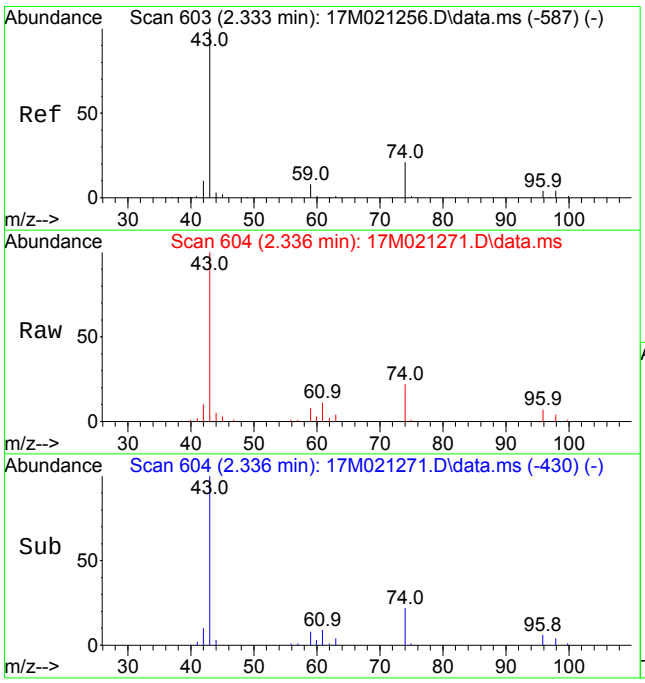


#17
trans-1,2-Dichloroethene
Concen: 18.9624 ug/L
RT: 2.304 min Scan# 593
Delta R.T. -0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 96 Resp: 72064

Ion	Ratio	Lower	Upper
96	100		
61	143.1	115.4	173.0

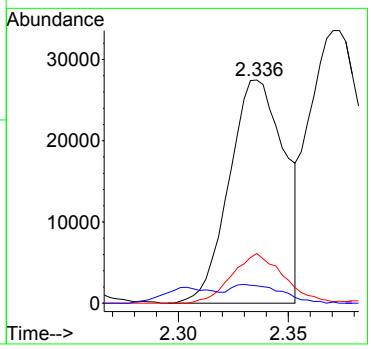


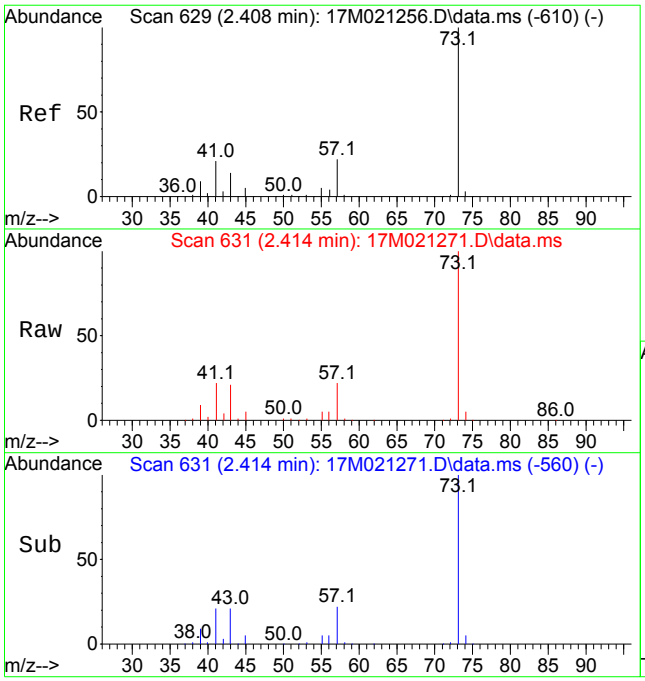


#18
Methyl acetate
Concen: 26.3503 ug/L
RT: 2.336 min Scan# 604
Delta R.T. 0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 43 Resp: 48155

Ion	Ratio	Lower	Upper
43	100		
74	20.9	21.3	21.3#
59	8.1	13.6	20.4#

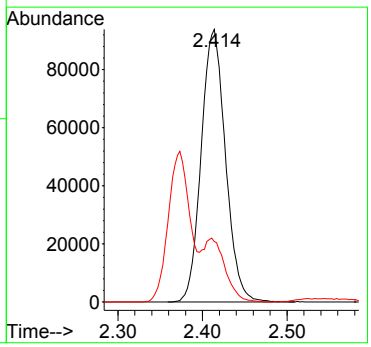


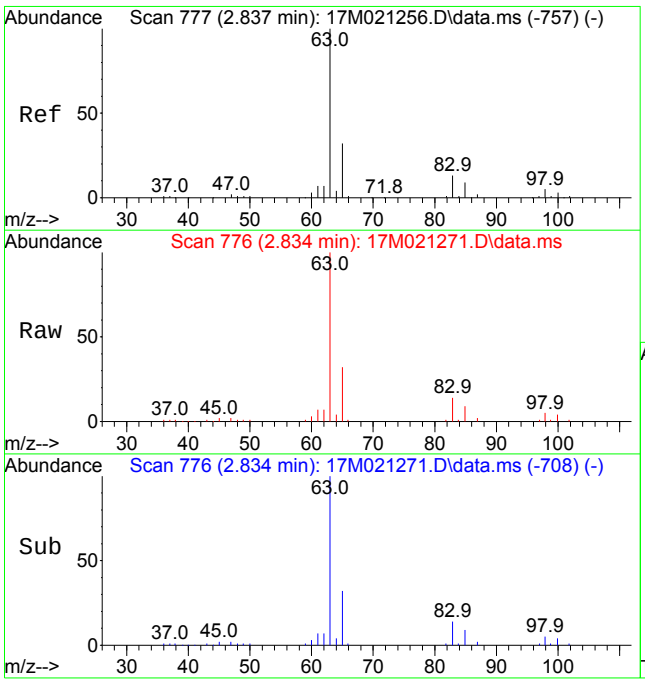


#19
Methyl Tert Butyl Ether
Concen: 22.7216 ug/L
RT: 2.414 min Scan# 631
Delta R.T. 0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 73 Resp: 186874

Ion	Ratio	Lower	Upper
73	100		
57	52.0	17.8	26.6#

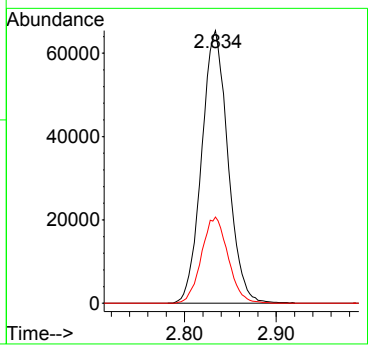


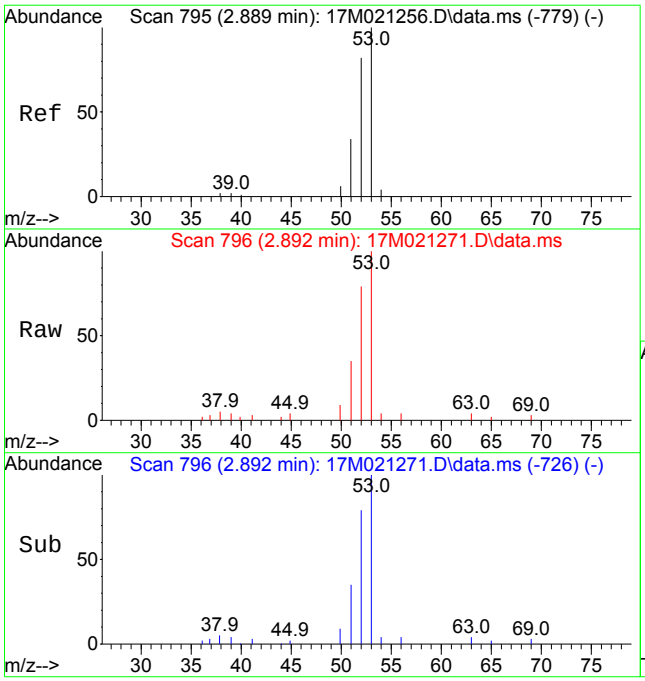


#20
1,1-Dichloroethane
Concen: 18.3291 ug/L
RT: 2.834 min Scan# 776
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 63 Resp: 130523

Ion	Ratio	Lower	Upper
63	100		
65	32.0	25.4	38.2

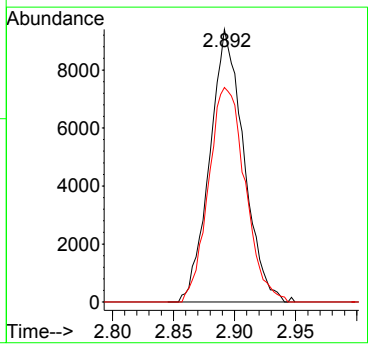


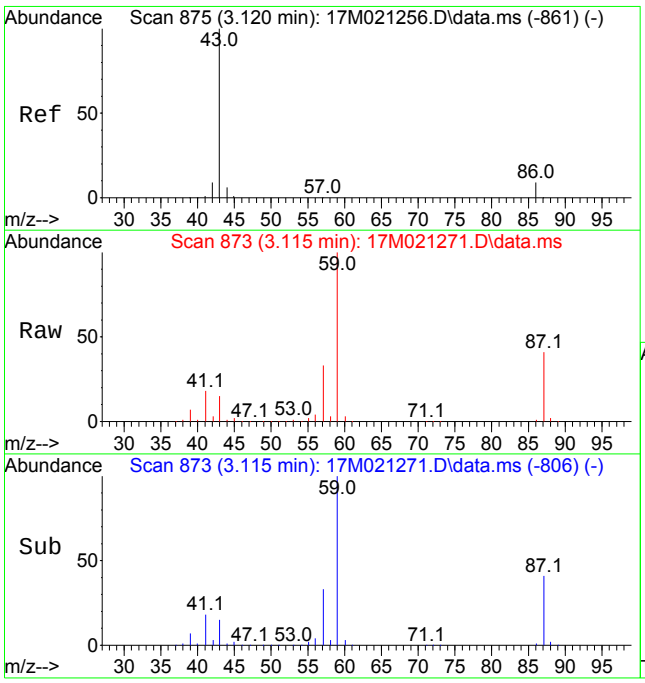


#21
Acrylonitrile
Concen: 23.4298 ug/L
RT: 2.892 min Scan# 796
Delta R.T. 0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 53 Resp: 18206

Ion	Ratio	Lower	Upper
53	100		
52	84.7	50.8	118.4

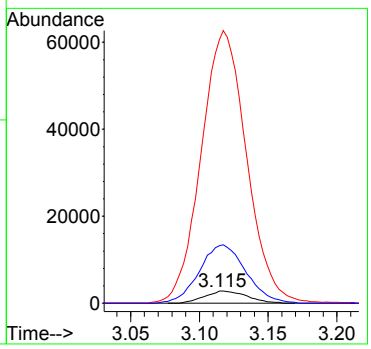


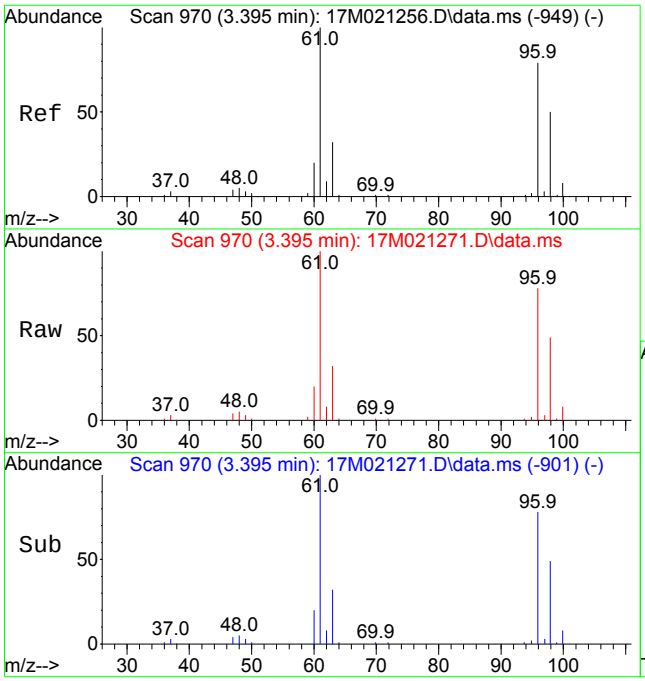


#22
Vinyl Acetate
Concen: 27.8873 ug/L
RT: 3.115 min Scan# 873
Delta R.T. -0.005 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 86 Resp: 6031

Ion	Ratio	Lower	Upper
86	100		
43	2396.9	682.7	1592.9#
42	524.6	77.1	115.7#

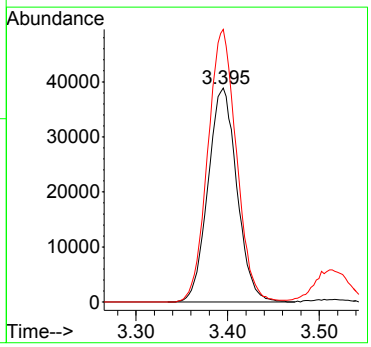


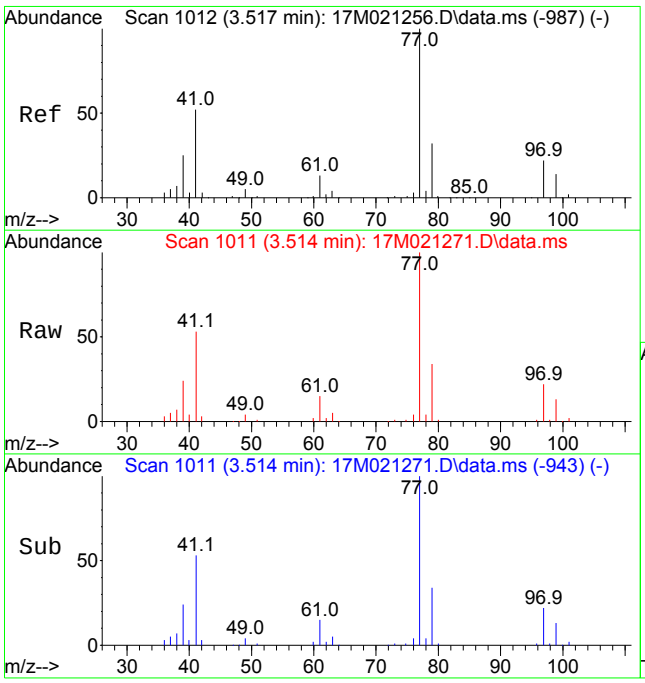


#23
cis-1,2-Dichloroethene
Concen: 20.0920 ug/L
RT: 3.395 min Scan# 970
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 96 Resp: 85141

Ion	Ratio	Lower	Upper
96	100		
61	126.7	102.6	154.0

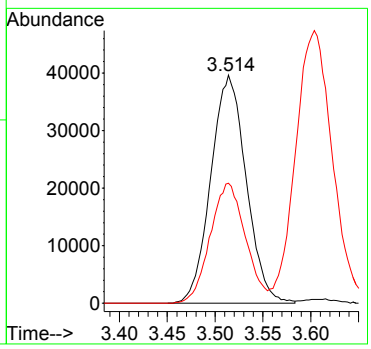


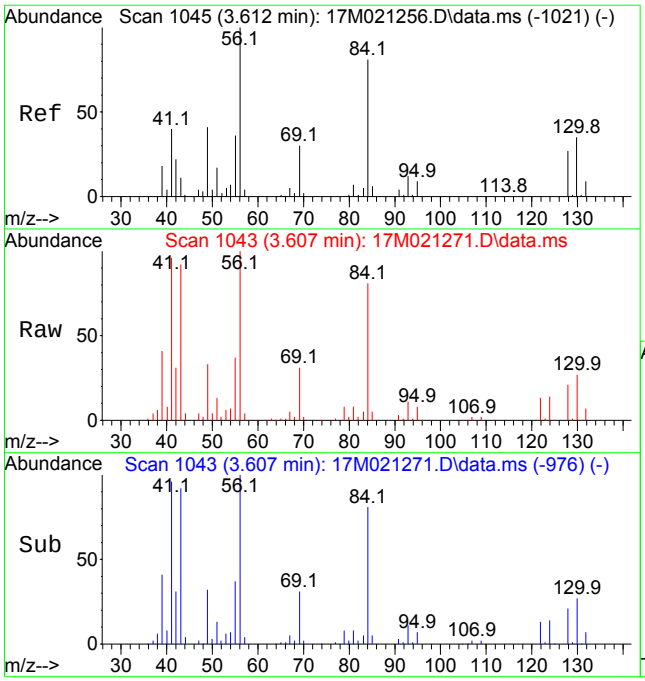


#24
2,2-Dichloropropane
Concen: 18.0655 ug/L
RT: 3.514 min Scan# 1011
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 77 Resp: 101925

Ion	Ratio	Lower	Upper
77	100		
41	52.4	42.0	63.0

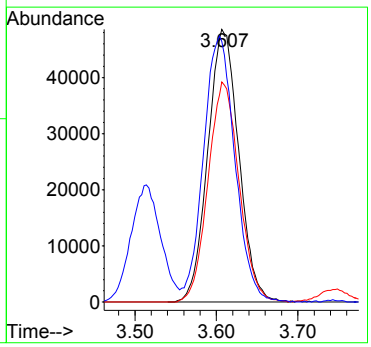


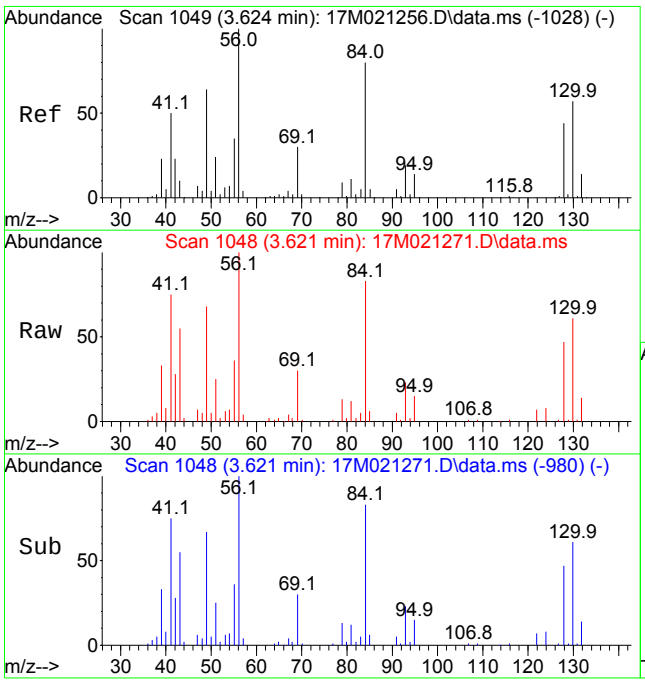


#25
Cyclohexane
Concen: 21.2780 ug/L
RT: 3.607 min Scan# 1043
Delta R.T. -0.005 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 56 Resp: 128412

Ion	Ratio	Lower	Upper
56	100		
84	80.8	64.1	96.1
41	98.9	44.2	66.4#

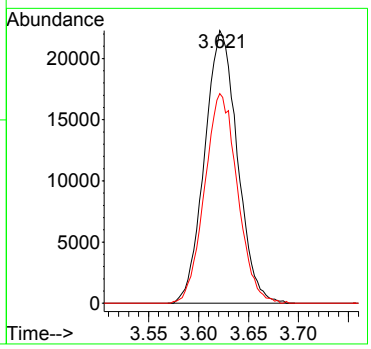


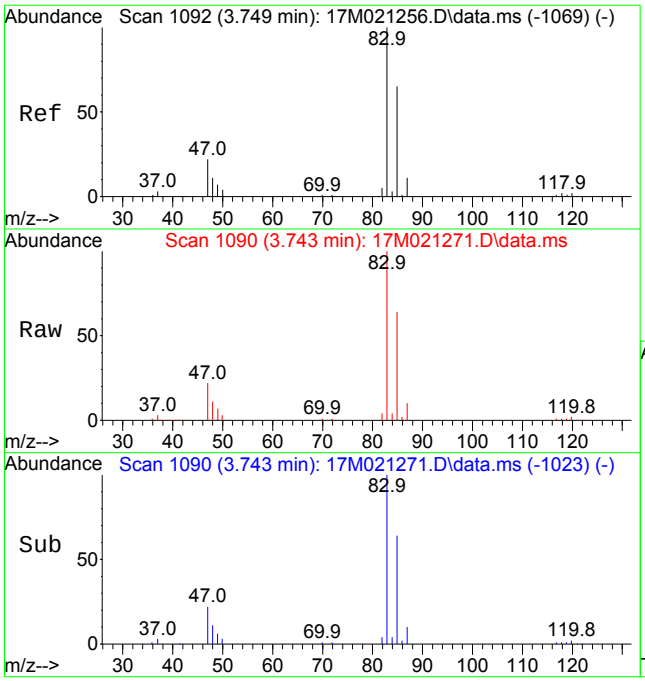


#26
Bromochloromethane
Concen: 19.7676 ug/L
RT: 3.621 min Scan# 1048
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:130 Resp: 50955

Ion	Ratio	Lower	Upper
130	100		
128	77.1	62.1	93.1

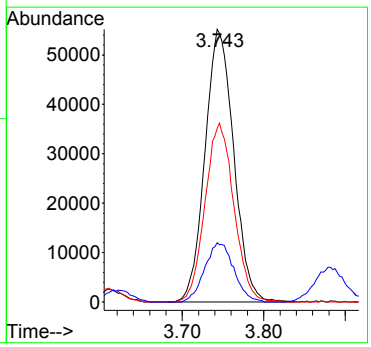


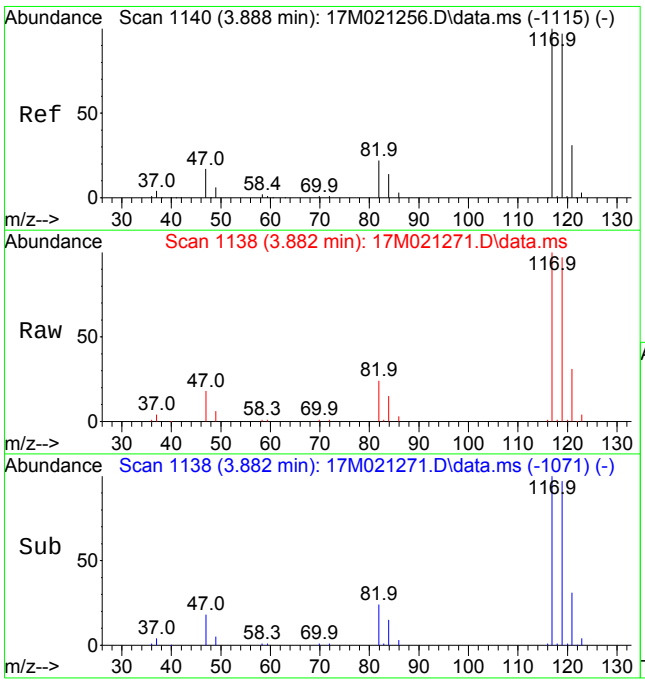


#27
Chloroform
Concen: 19.1433 ug/L
RT: 3.743 min Scan# 1090
Delta R.T. -0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 83 Resp: 135415

Ion	Ratio	Lower	Upper
83	100		
85	65.7	39.0	91.0
47	22.0	13.3	30.9

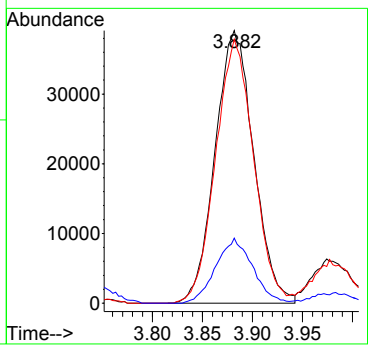


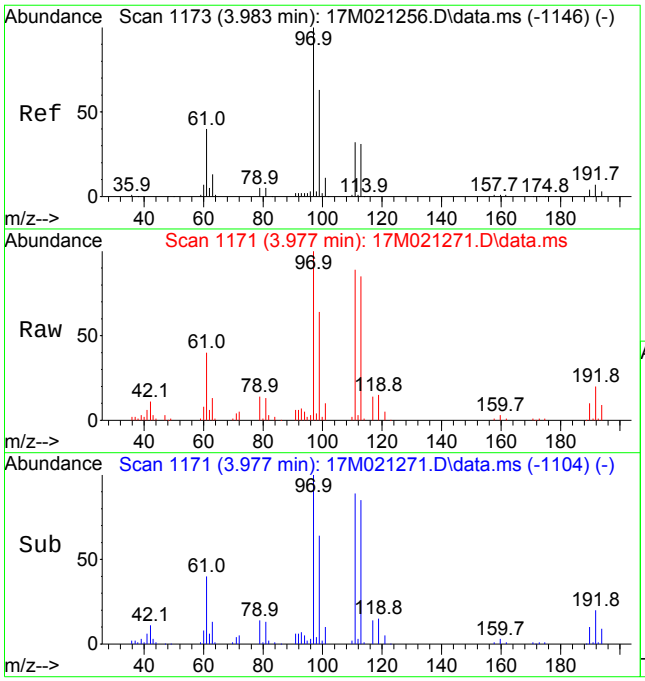


#28
Carbon Tetrachloride
Concen: 19.6777 ug/L
RT: 3.882 min Scan# 1138
Delta R.T. -0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:117 Resp: 105343

Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.3	115.9
82	22.7	18.1	27.1

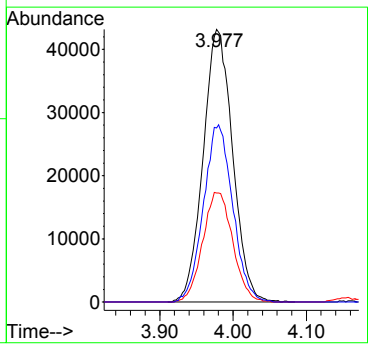


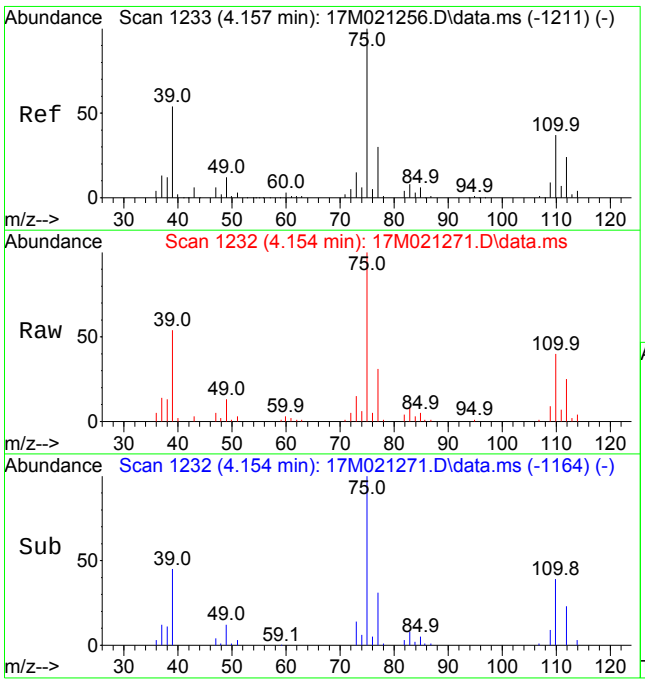


#30
1,1,1-Trichloroethane
Concen: 19.1457 ug/L
RT: 3.977 min Scan# 1171
Delta R.T. -0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 97 Resp: 120924

Ion	Ratio	Lower	Upper
97	100		
61	40.8	24.6	57.4
99	64.4	51.7	77.5

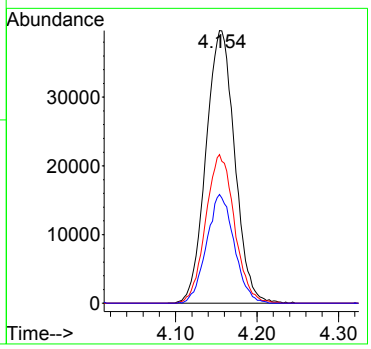


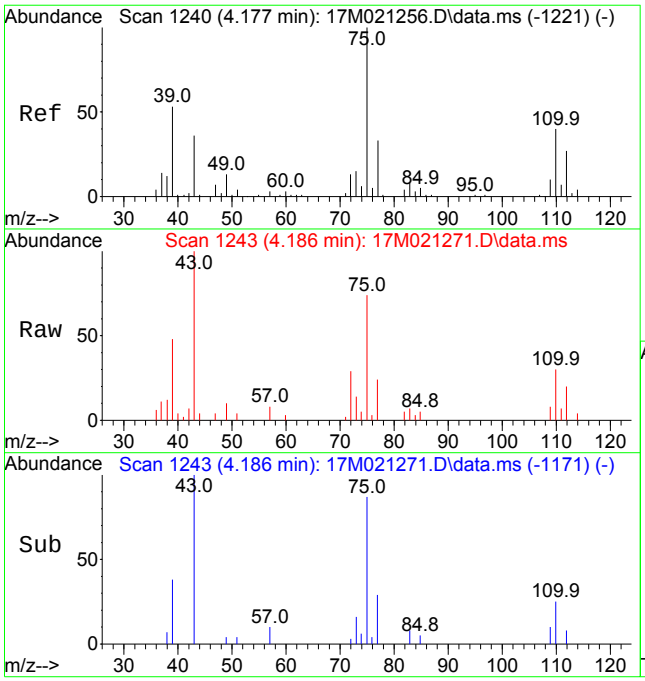


#31
1,1-Dichloropropene
Concen: 18.8686 ug/L
RT: 4.154 min Scan# 1232
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 75 Resp: 97428

Ion	Ratio	Lower	Upper
75	100		
39	54.6	32.8	76.6
110	38.4	22.8	53.2

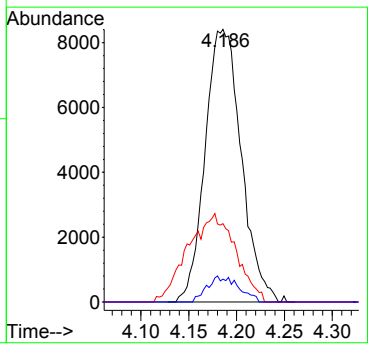


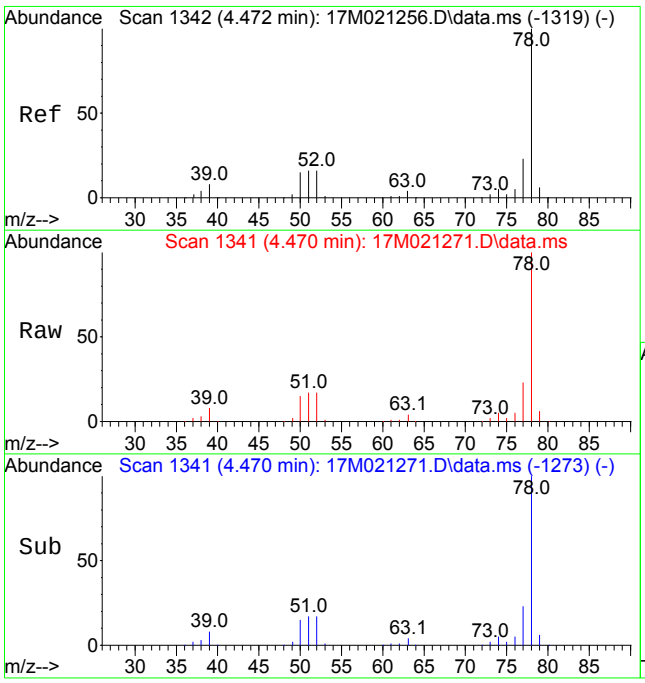


#32
2-Butanone
Concen: 24.6797 ug/L
RT: 4.186 min Scan# 1243
Delta R.T. 0.009 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 43 Resp: 22090

Ion	Ratio	Lower	Upper
43	100		
72	42.9	40.0	60.0
57	8.2	6.4	9.6

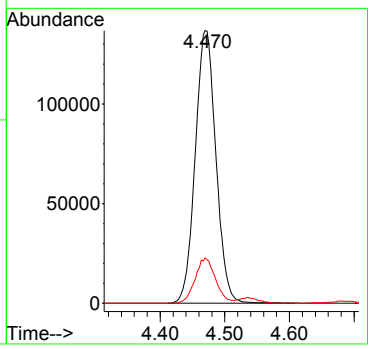


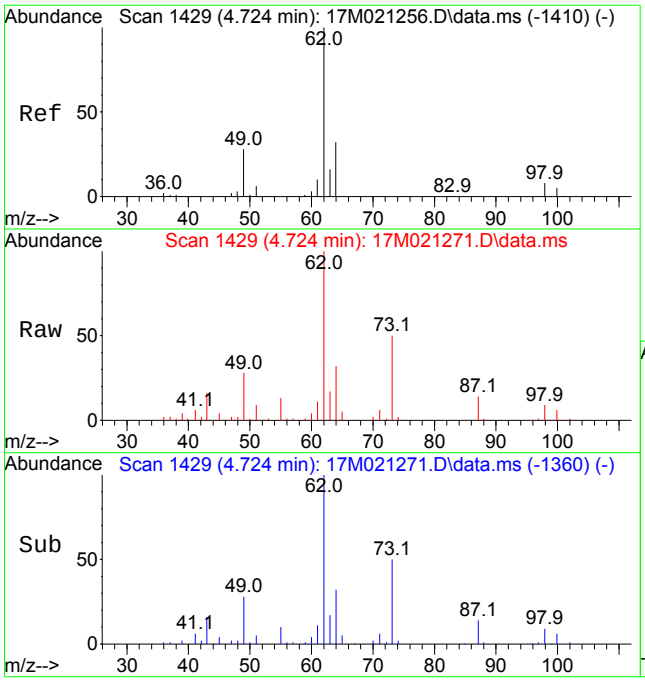


#33
Benzene
Concen: 19.3936 ug/L
RT: 4.470 min Scan# 1341
Delta R.T. -0.002 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 78 Resp: 303614

Ion	Ratio	Lower	Upper
78	100		
52	16.3	13.0	19.4

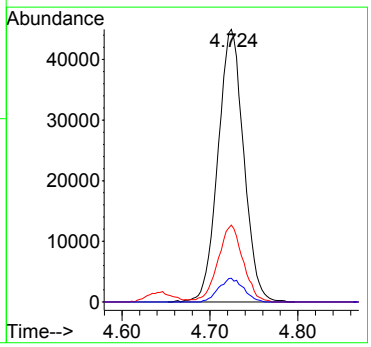


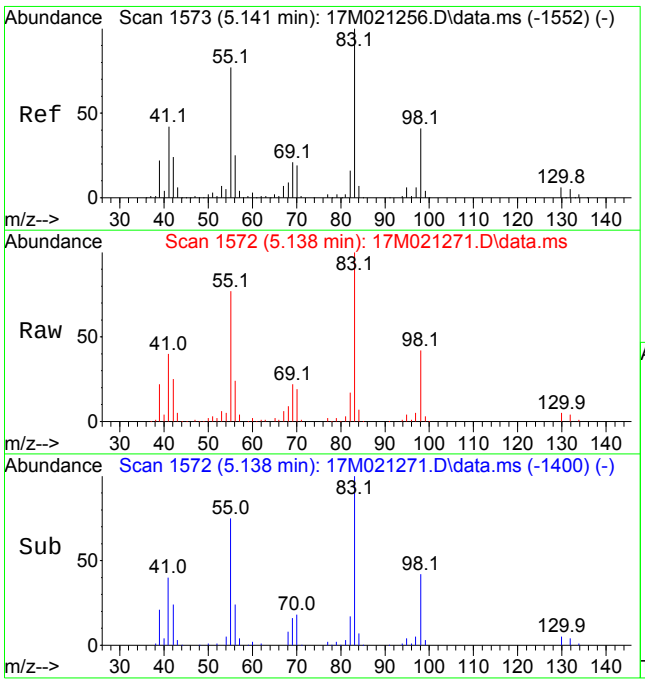


#35
1,2-Dichloroethane
Concen: 20.5993 ug/L
RT: 4.724 min Scan# 1429
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 62 Resp: 91320

Ion	Ratio	Lower	Upper
62	100		
49	27.7	16.7	38.9
98	8.4	5.0	11.6

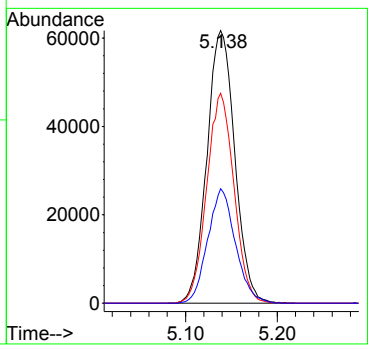


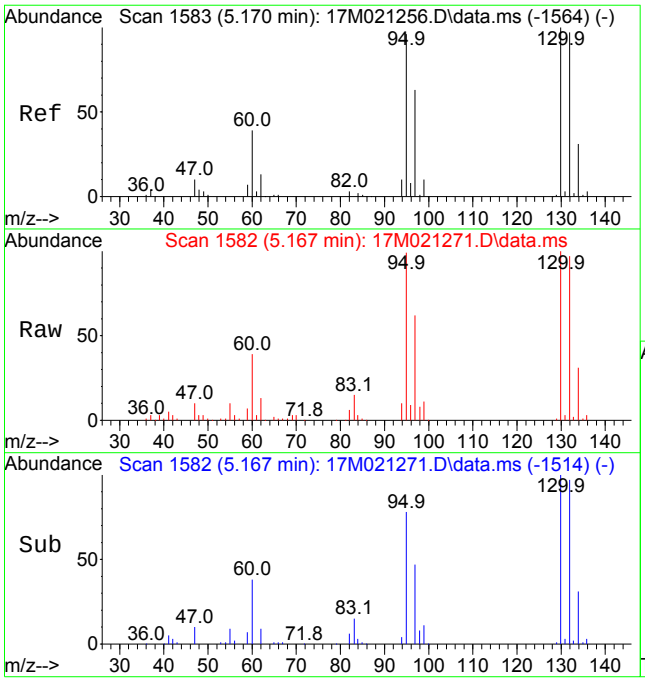


#36
Methylcyclohexane
Concen: 20.9840 ug/L
RT: 5.138 min Scan# 1572
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 83 Resp: 130749

Ion	Ratio	Lower	Upper
83	100		
55	75.1	60.5	90.7
98	41.7	33.4	50.2

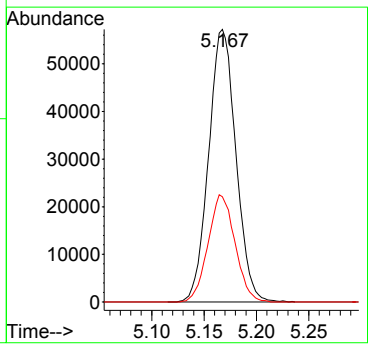


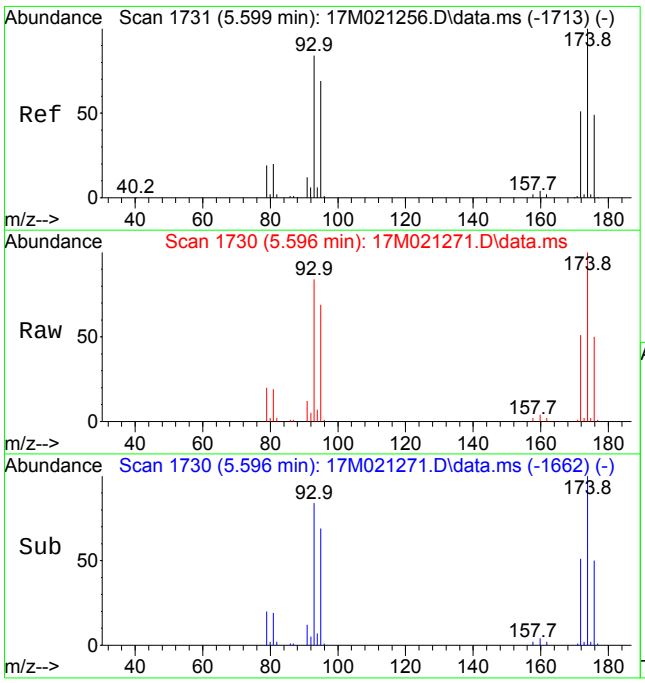


#37
Trichloroethene
Concen: 19.6221 ug/L
RT: 5.167 min Scan# 1582
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:130 Resp: 103853

Ion	Ratio	Lower	Upper
130	100		
60	38.9	23.6	55.2

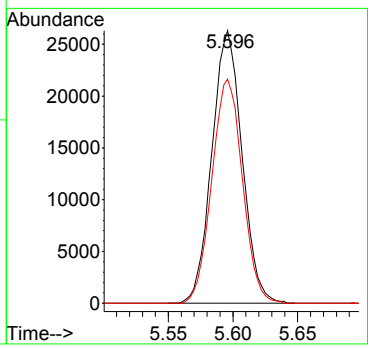


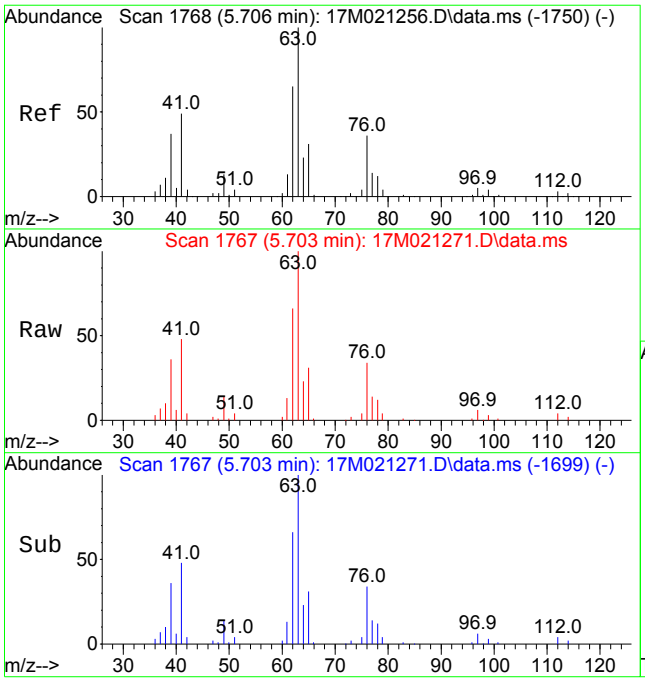


#38
Dibromomethane
Concen: 19.9679 ug/L
RT: 5.596 min Scan# 1730
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 93 Resp: 42557

Ion	Ratio	Lower	Upper
93	100		
95	83.2	67.0	100.4

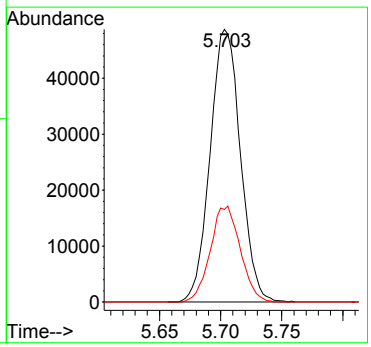


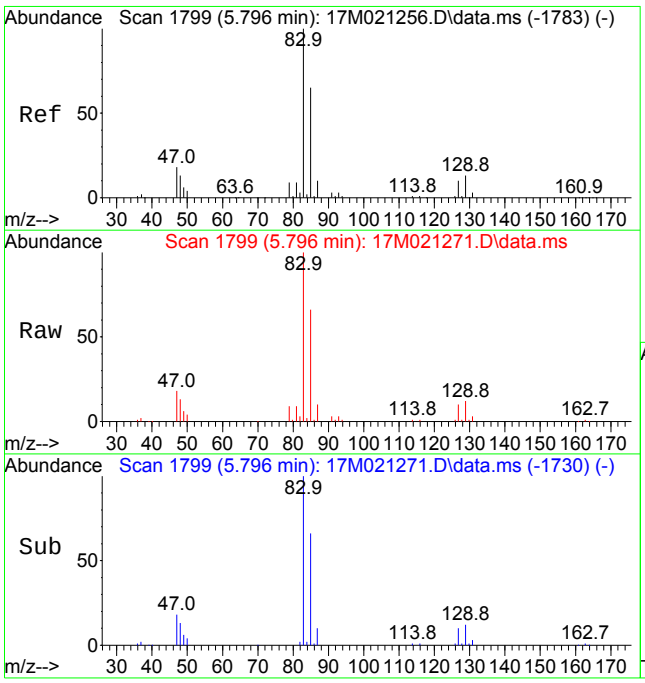


#39
1,2-Dichloropropane
Concen: 20.3973 ug/L
RT: 5.703 min Scan# 1767
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 63 Resp: 84132

Ion	Ratio	Lower	Upper
63	100		
76	34.7	20.8	48.6

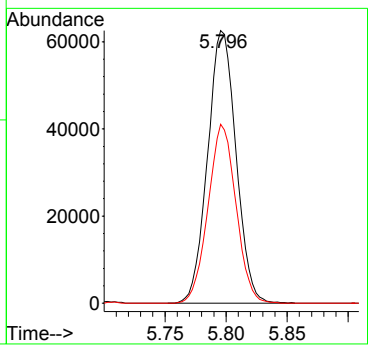


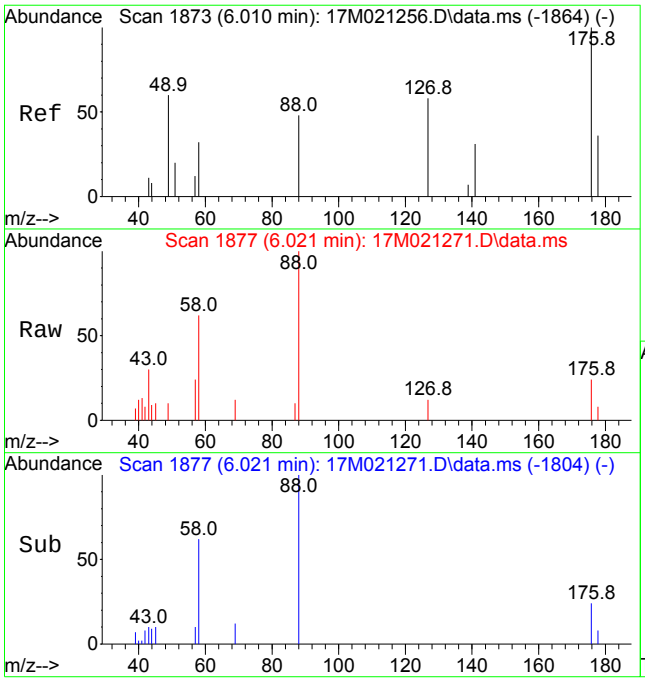


#40
Bromodichloromethane
Concen: 20.2443 ug/L
RT: 5.796 min Scan# 1799
Delta R.T. -0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 83 Resp: 101369

Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.7	77.5

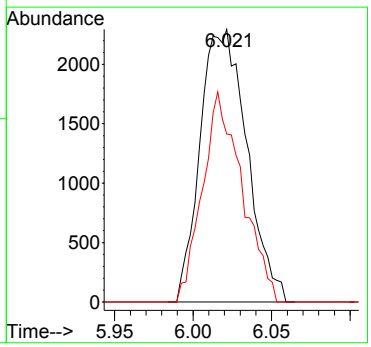


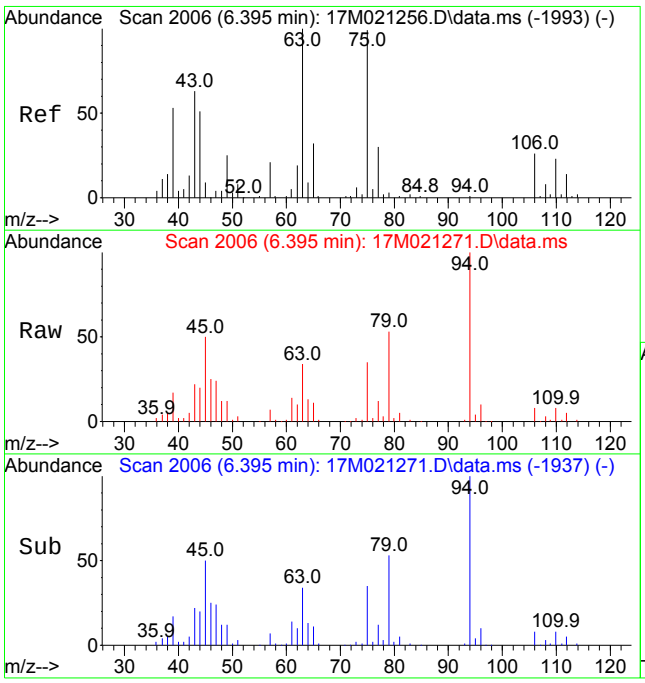


#41
1,4-Dioxane
Concen: 229.7893 ug/L
RT: 6.021 min Scan# 1877
Delta R.T. 0.011 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 88 Resp: 4732

Ion	Ratio	Lower	Upper
88	100		
58	65.4	39.5	92.3

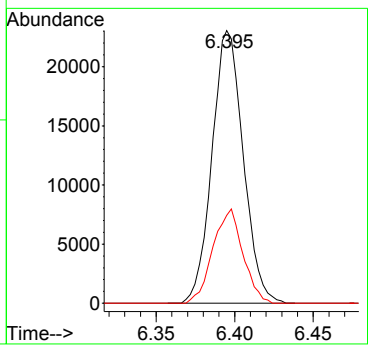


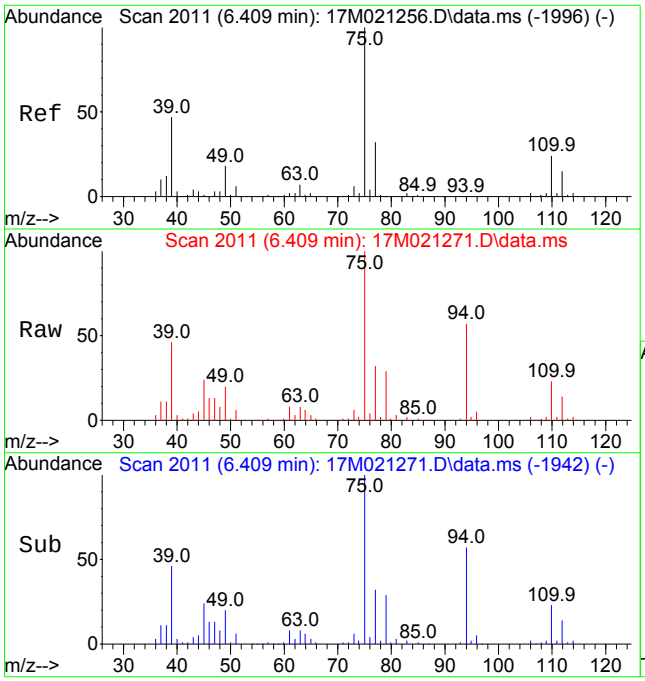


#42
2-Chloroethyl Vinyl Ether
Concen: 21.7957 ug/L
RT: 6.395 min Scan# 2006
Delta R.T. -0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 63 Resp: 31947

Ion	Ratio	Lower	Upper
63	100		
65	33.1	19.1	44.7

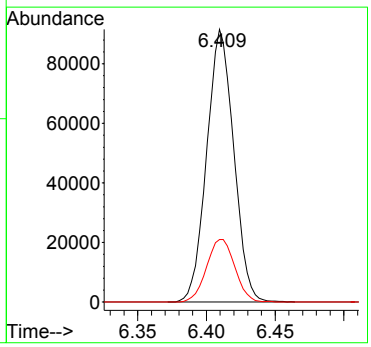


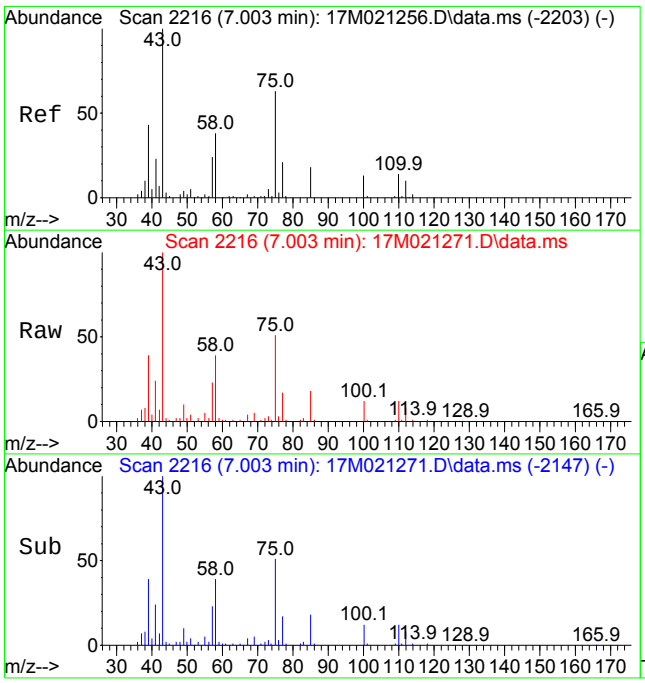


#43
cis-1,3-Dichloropropene
Concen: 22.7885 ug/L
RT: 6.409 min Scan# 2011
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 75 Resp: 125121

Ion	Ratio	Lower	Upper
75	100		
110	24.0	19.4	29.0

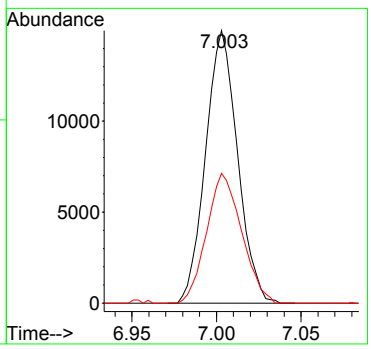


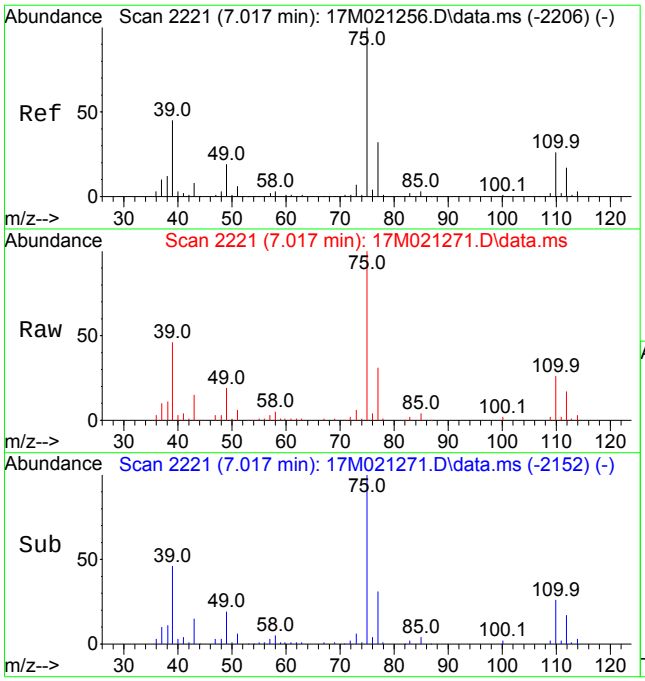


#44
4-Methyl-2-Pentanone
Concen: 24.8328 ug/L
RT: 7.003 min Scan# 2216
Delta R.T. -0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 58 Resp: 19646

Ion	Ratio	Lower	Upper
58	100		
85	52.2	33.6	78.4

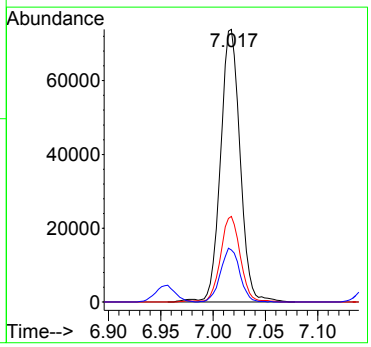


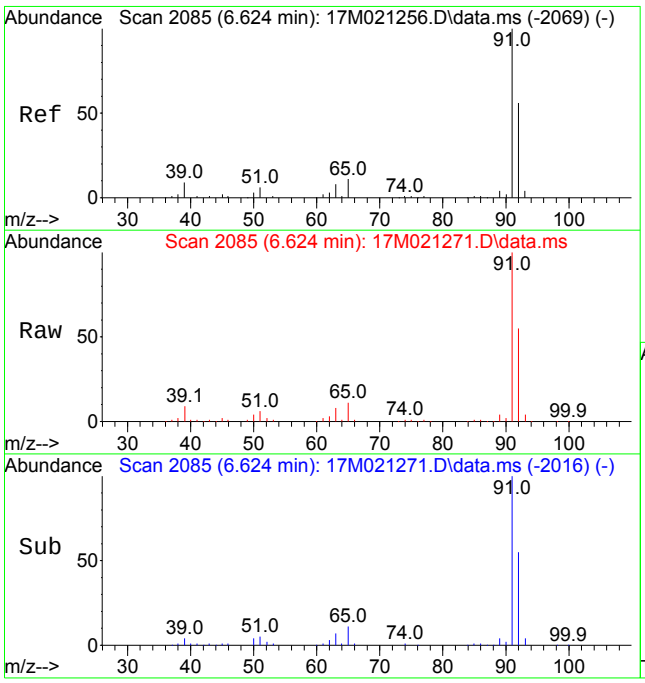


#45
trans-1,3-Dichloropropene
Concen: 21.6482 ug/L
RT: 7.017 min Scan# 2221
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 75 Resp: 96455

Ion	Ratio	Lower	Upper
75	100		
77	32.0	19.4	45.2
49	19.4	11.8	27.4

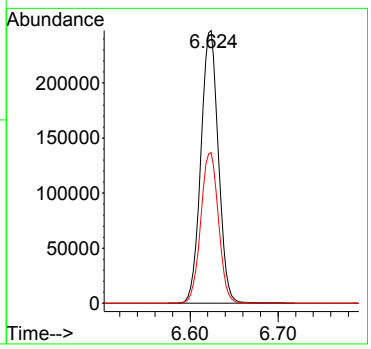


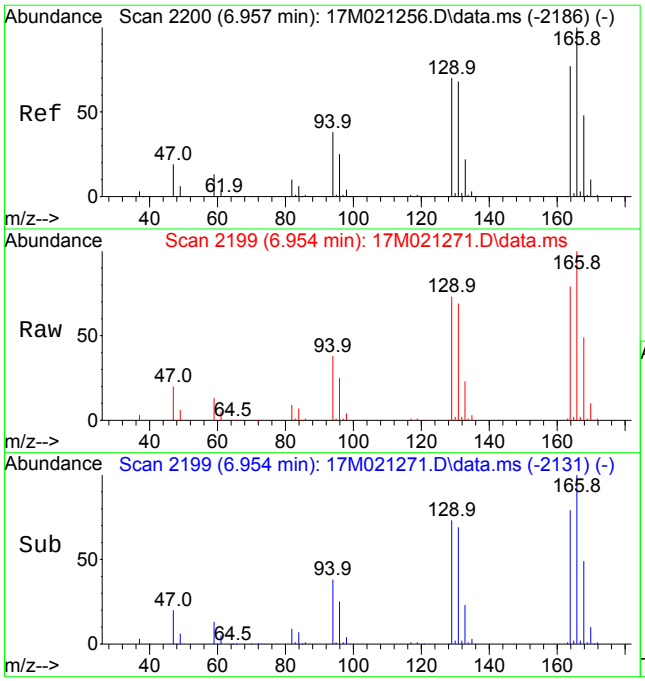


#48
Toluene
Concen: 19.6431 ug/L
RT: 6.624 min Scan# 2085
Delta R.T. -0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 91 Resp: 341034

Ion	Ratio	Lower	Upper
91	100		
92	56.1	33.4	78.0

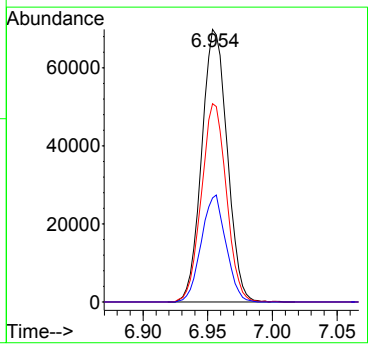


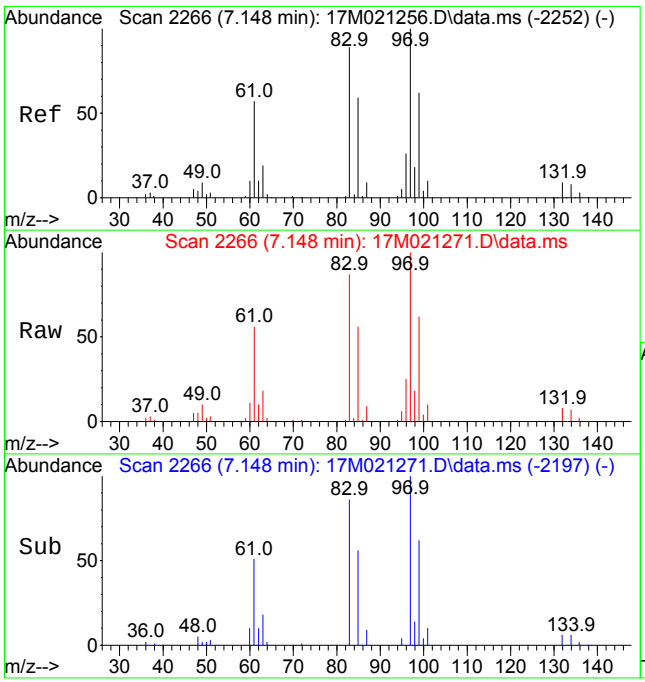


#49
Tetrachloroethene
Concen: 18.9145 ug/L
RT: 6.954 min Scan# 2199
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:166 Resp: 95498

Ion	Ratio	Lower	Upper
166	100		
129	71.3	56.7	85.1
94	37.9	30.7	46.1

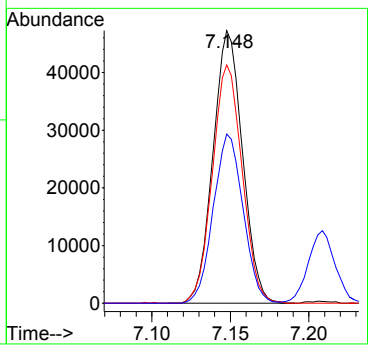


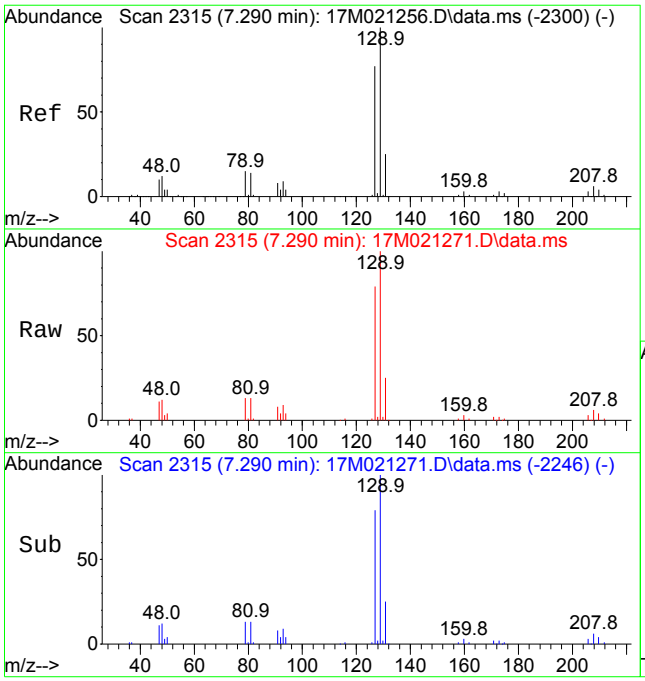


#50
1,1,2-Trichloroethane
Concen: 21.5101 ug/L
RT: 7.148 min Scan# 2266
Delta R.T. -0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 97 Resp: 61786

Ion	Ratio	Lower	Upper
97	100		
83	88.3	53.5	124.9
99	62.6	37.8	88.2

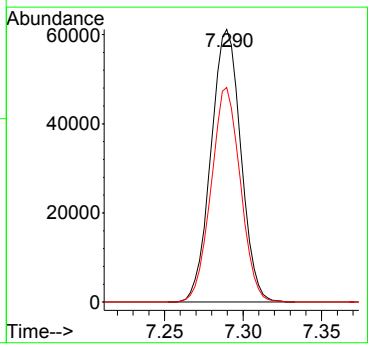


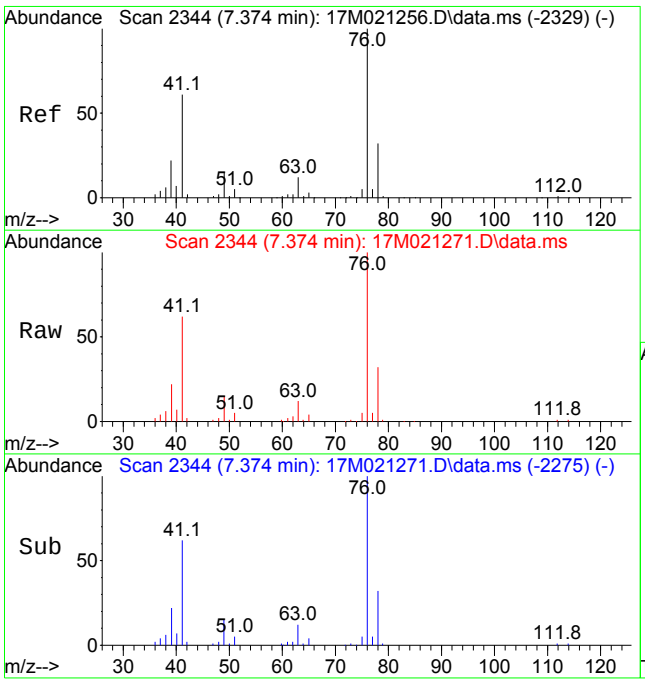


#51
Dibromochloromethane
Concen: 20.3702 ug/L
RT: 7.290 min Scan# 2315
Delta R.T. -0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:129 Resp: 80898

Ion	Ratio	Lower	Upper
129	100		
127	77.0	61.4	92.2

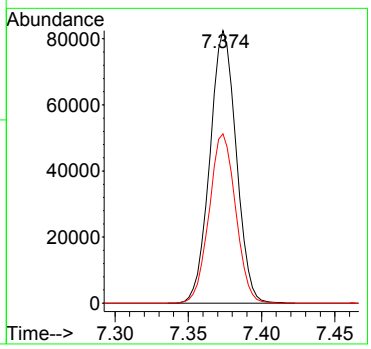


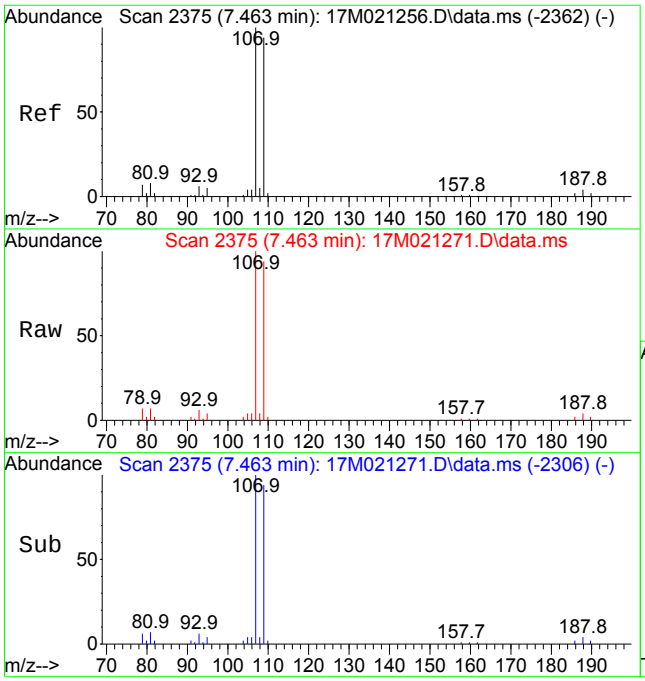


#52
1,3-Dichloropropane
Concen: 22.3297 ug/L
RT: 7.374 min Scan# 2344
Delta R.T. -0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 76 Resp: 103155

Ion	Ratio	Lower	Upper
76	100		
41	62.5	37.4	87.2

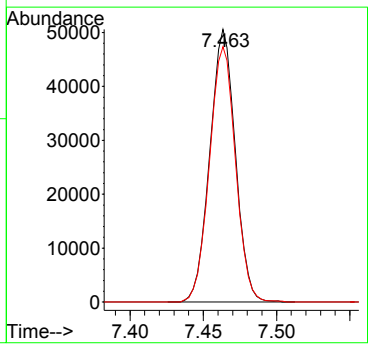


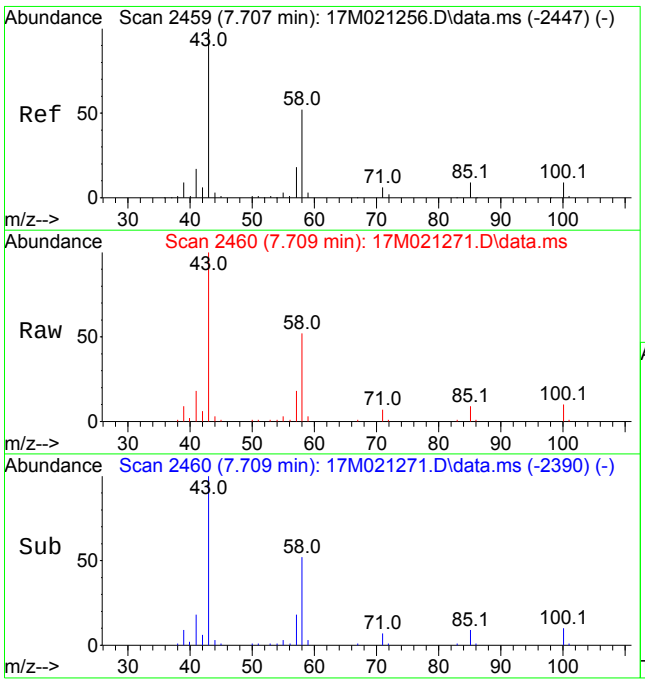


#53
1,2-Dibromoethane
Concen: 21.2910 ug/L
RT: 7.463 min Scan# 2375
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:107 Resp: 61184

Ion	Ratio	Lower	Upper
107	100		
109	95.6	56.6	132.2

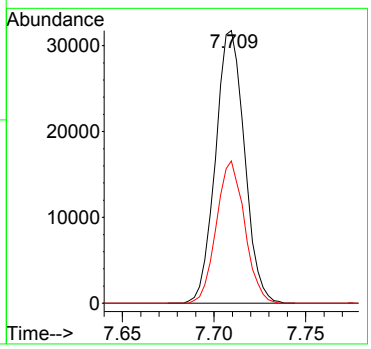


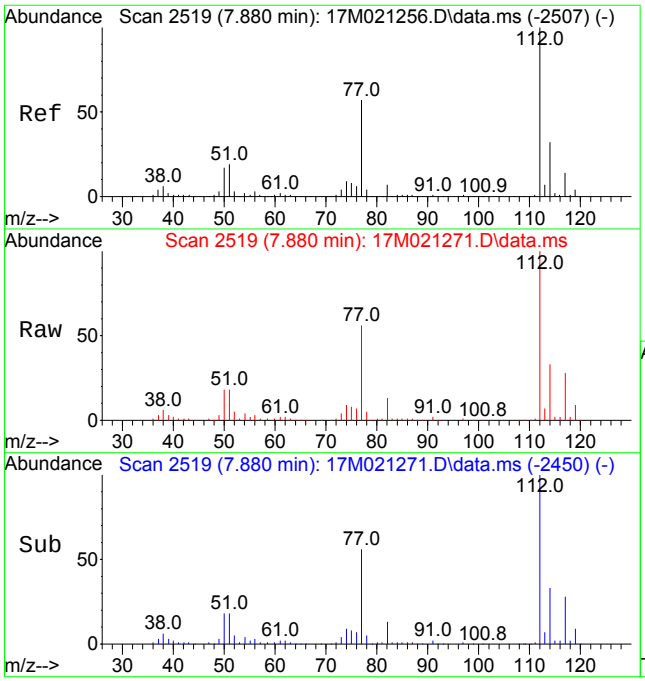


#54
2-Hexanone
Concen: 24.4002 ug/L
RT: 7.709 min Scan# 2460
Delta R.T. 0.002 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 43 Resp: 34993

Ion	Ratio	Lower	Upper
43	100		
58	50.7	41.4	62.2

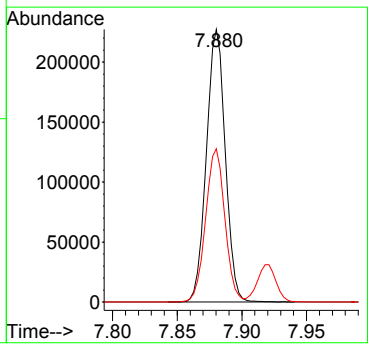


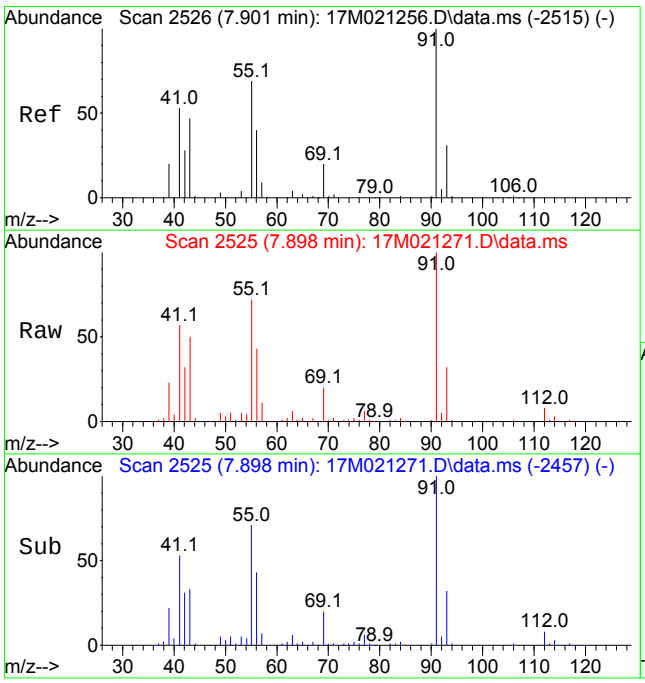


#55
Chlorobenzene
Concen: 20.1589 ug/L
RT: 7.880 min Scan# 2519
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:112 Resp: 229976

Ion	Ratio	Lower	Upper
112	100		
77	57.2	34.3	80.1

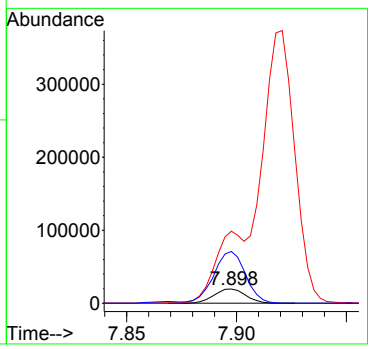


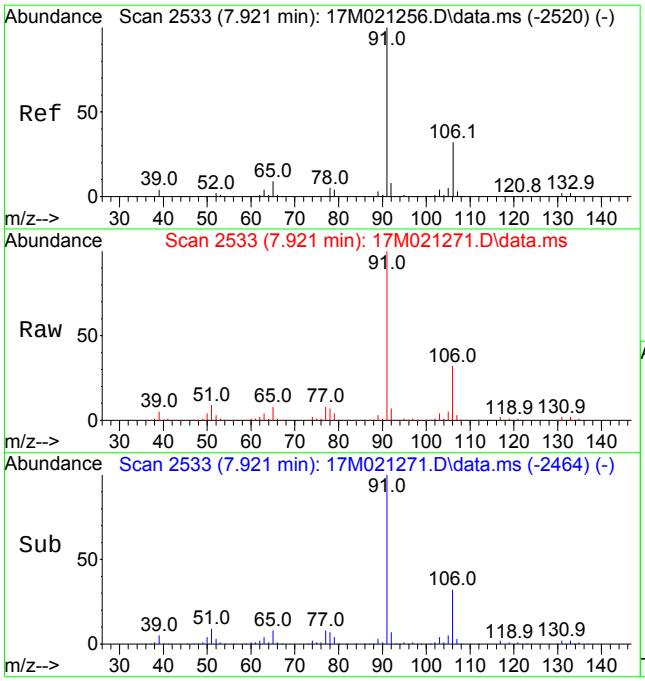


#56
1-Chlorohexane
Concen: 20.8380 ug/L
RT: 7.898 min Scan# 2525
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 69 Resp: 19681

Ion	Ratio	Lower	Upper
69	100		
91	2395.9	1913.8	2870.6
55	374.2	297.2	445.8

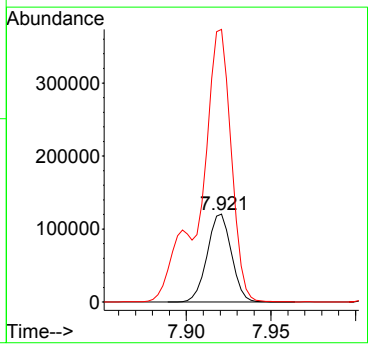


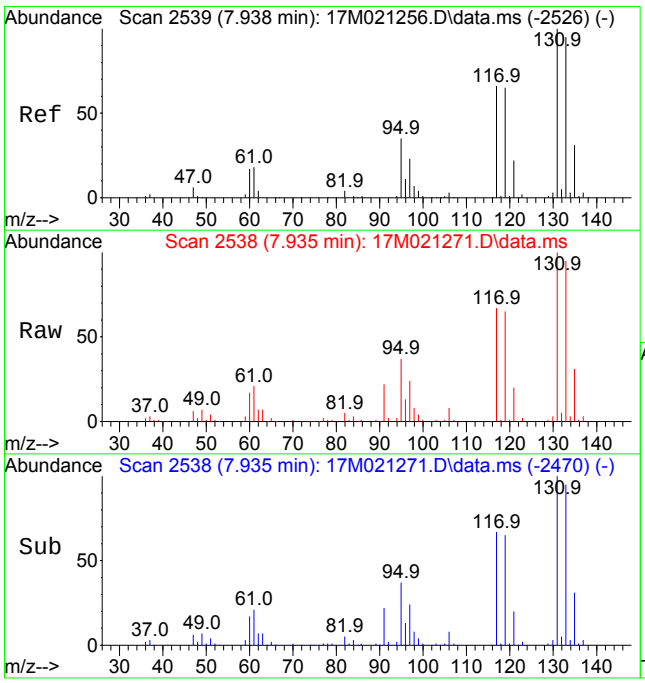


#57
Ethylbenzene
Concen: 19.9120 ug/L
RT: 7.921 min Scan# 2533
Delta R.T. -0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:106 Resp: 119475

Ion	Ratio	Lower	Upper
106	100		
91	394.7	318.2	477.2

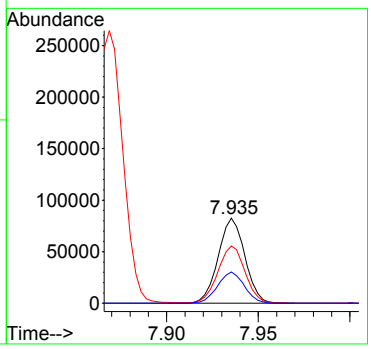


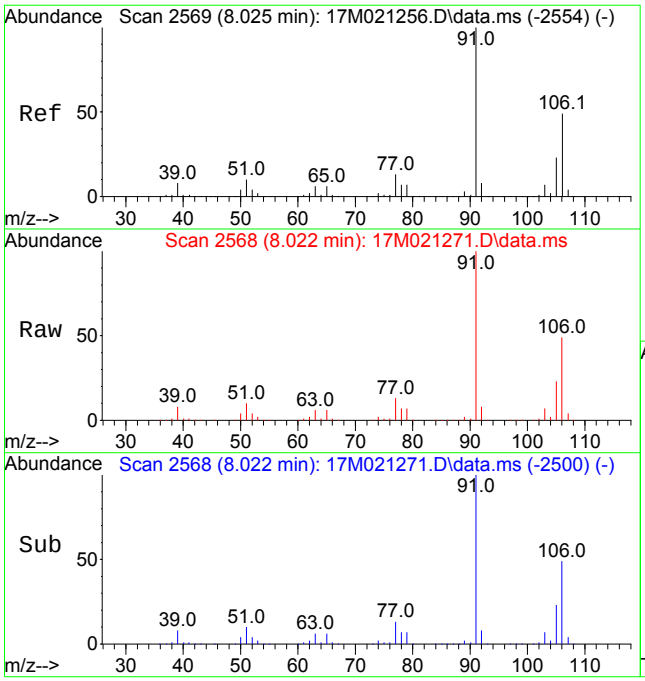


#58
1,1,1,2-Tetrachloroethane
Concen: 20.9600 ug/L
RT: 7.935 min Scan# 2538
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:131 Resp: 83469

Ion	Ratio	Lower	Upper
131	100		
117	68.6	40.9	95.5
95	36.7	21.7	50.5

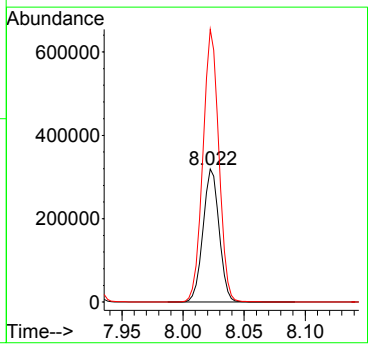


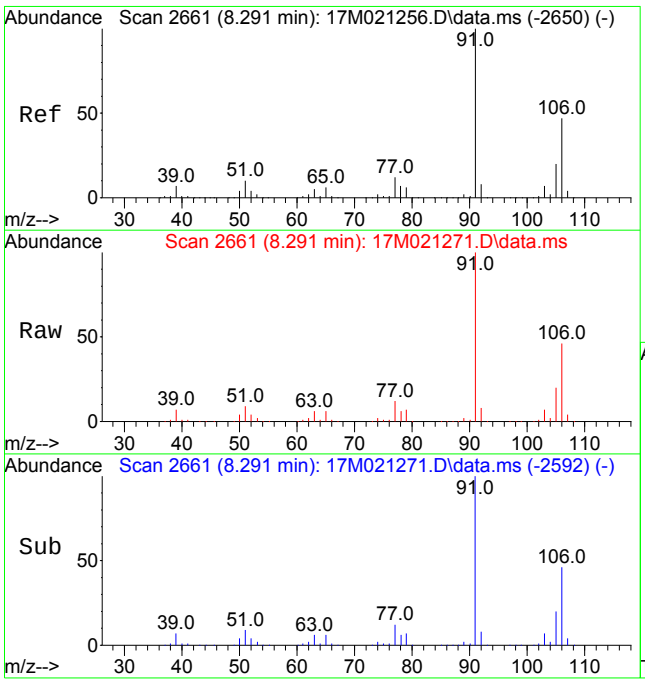


#59
m-,p-Xylene
Concen: 41.1517 ug/L
RT: 8.022 min Scan# 2568
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:106 Resp: 292366

Ion	Ratio	Lower	Upper
106	100		
91	202.8	121.7	283.9

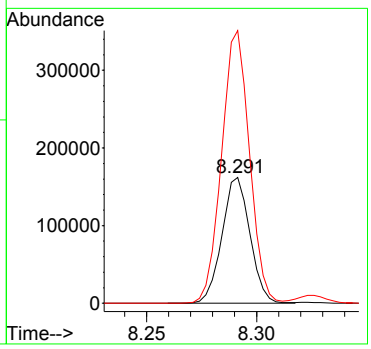


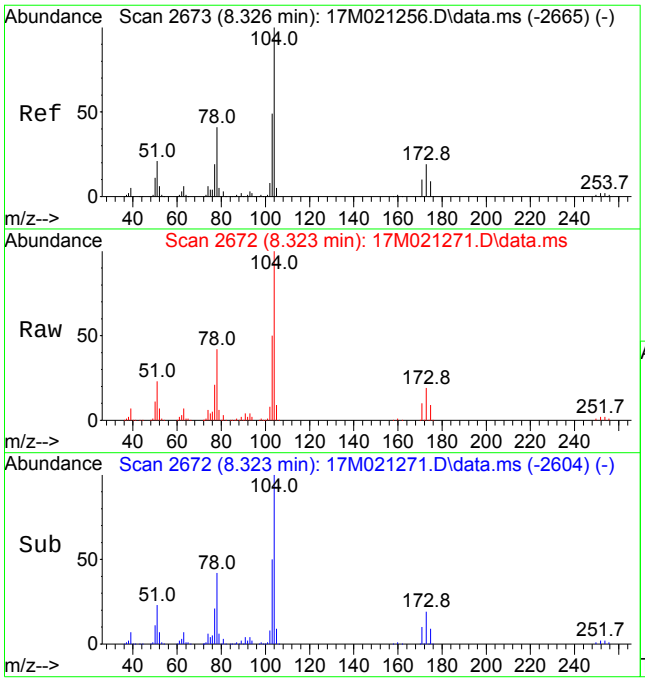


#60
o-Xylene
Concen: 20.5710 ug/L
RT: 8.291 min Scan# 2661
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:106 Resp: 143433

Ion	Ratio	Lower	Upper
106	100		
91	215.8	129.8	302.8

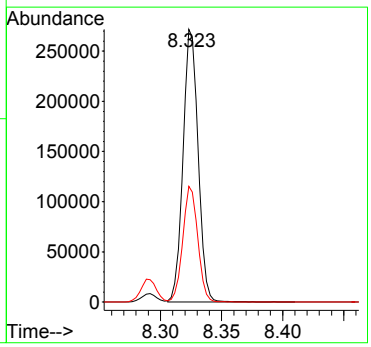


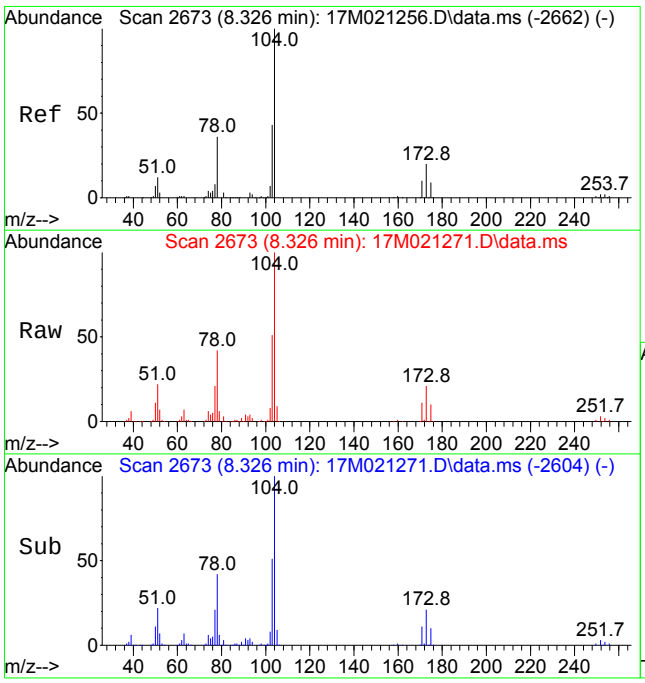


#61
Styrene
Concen: 21.0378 ug/L
RT: 8.323 min Scan# 2672
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:104 Resp: 233943

Ion	Ratio	Lower	Upper
104	100		
78	42.2	25.3	58.9

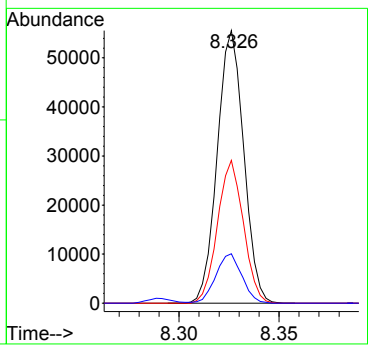


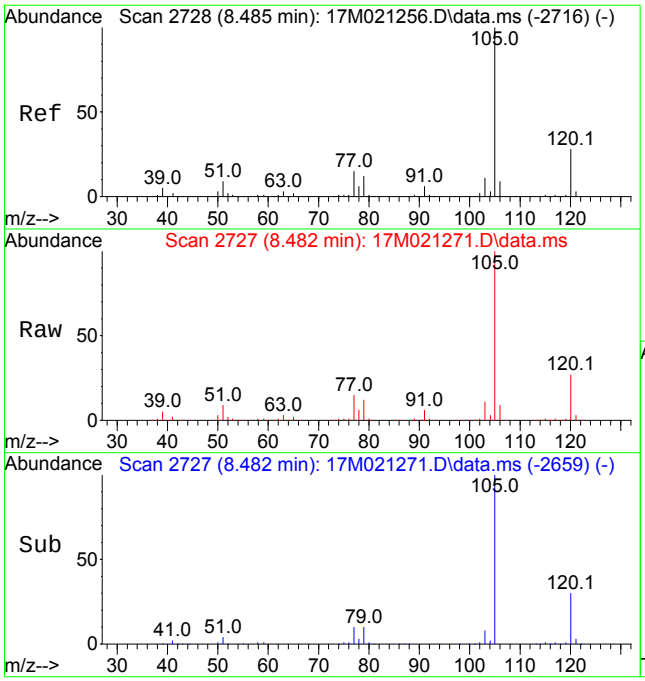


#62
Bromoform
Concen: 20.1481 ug/L
RT: 8.326 min Scan# 2673
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:173 Resp: 51223

Ion	Ratio	Lower	Upper
173	100		
171	51.1	30.8	72.0
93	17.8	10.6	24.8

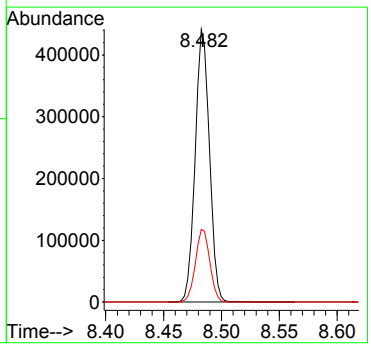


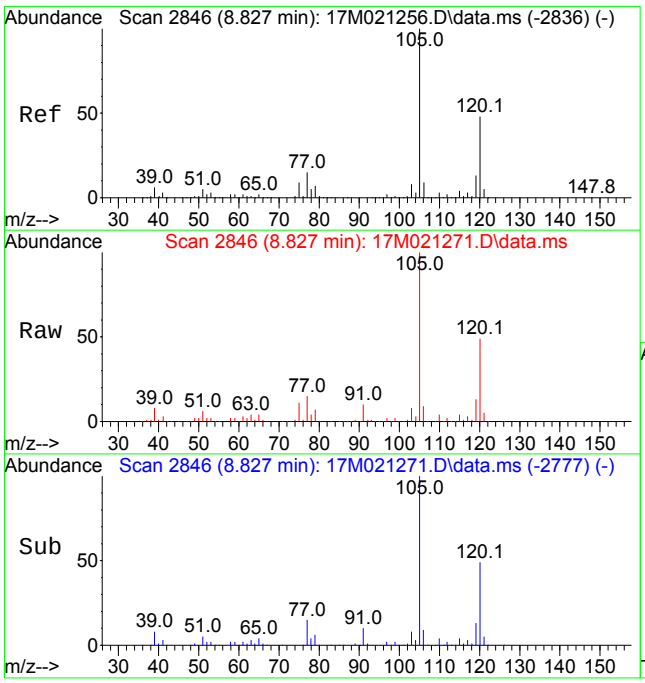


#63
Isopropylbenzene
Concen: 20.9383 ug/L
RT: 8.482 min Scan# 2727
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:105 Resp: 378208

Ion	Ratio	Lower	Upper
105	100		
120	26.8	16.1	37.5

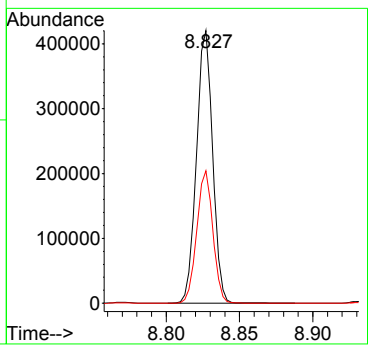


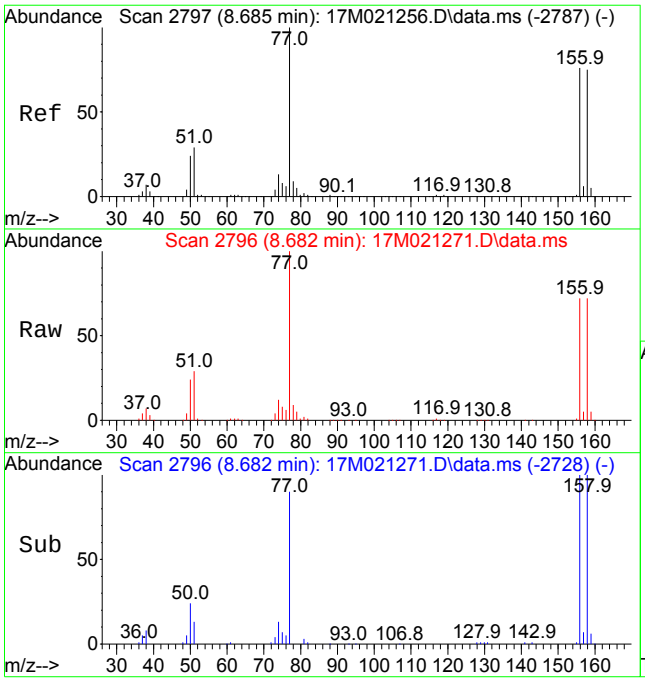


#65
1,3,5-Trimethylbenzene
Concen: 20.8626 ug/L
RT: 8.827 min Scan# 2846
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:105 Resp: 322727

Ion	Ratio	Lower	Upper
105	100		
120	48.4	38.7	58.1

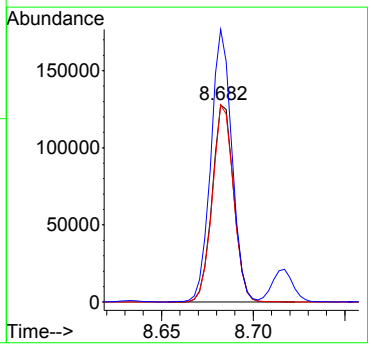


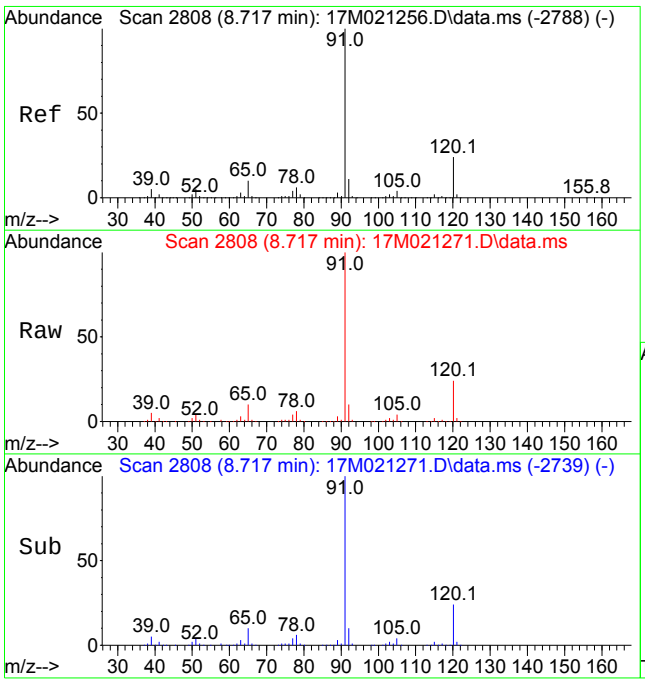


#67
Bromobenzene
Concen: 19.8246 ug/L
RT: 8.682 min Scan# 2796
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:156 Resp: 104864

Ion	Ratio	Lower	Upper
156	100		
158	98.0	78.4	117.6
77	134.7	108.0	162.0

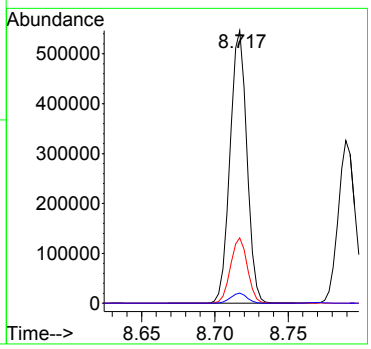


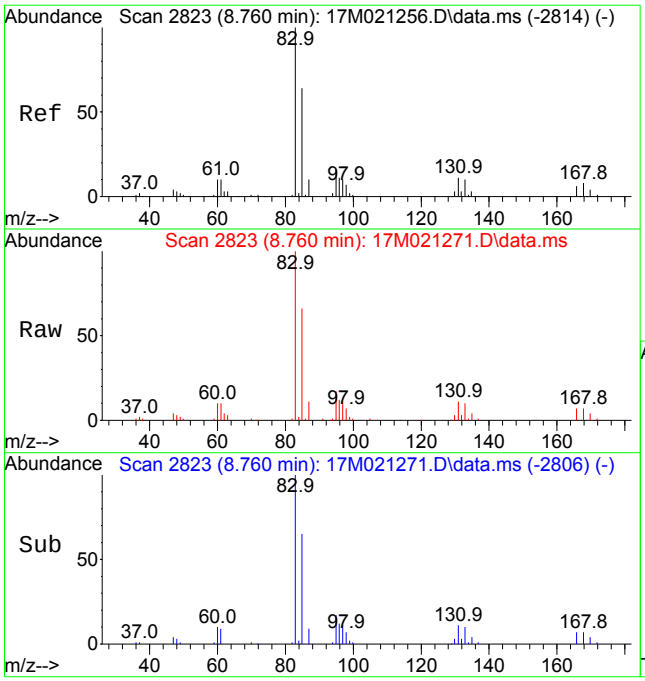


#68
n-Propylbenzene
Concen: 21.1811 ug/L
RT: 8.717 min Scan# 2808
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 91 Resp: 436941

Ion	Ratio	Lower	Upper
91	100		
120	23.9	14.3	33.5
105	3.6	2.1	4.9

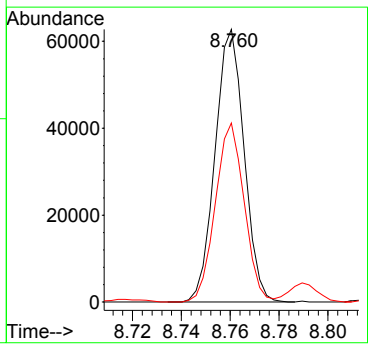


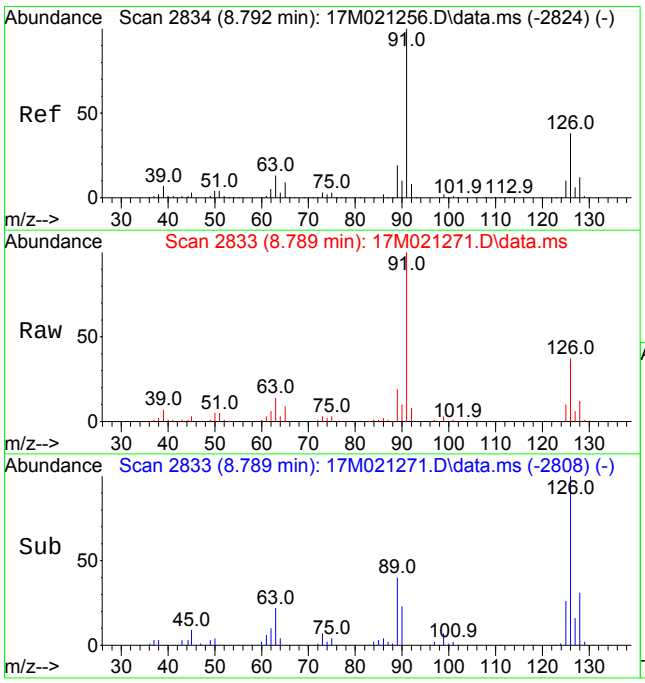


#69
1,1,2,2-Tetrachloroethane
Concen: 23.8266 ug/L
RT: 8.760 min Scan# 2823
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 83 Resp: 51836

Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.8	77.6

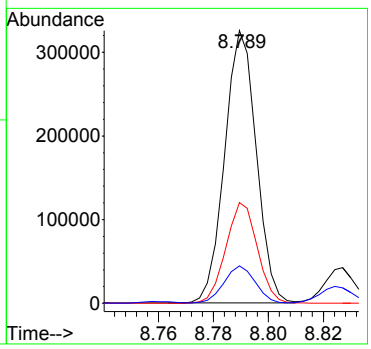


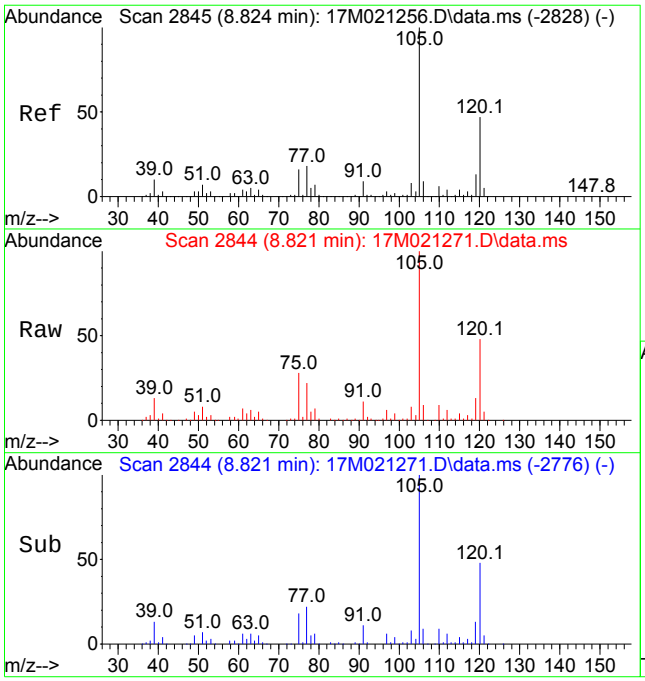


#70
2-Chlorotoluene
Concen: 20.4116 ug/L
RT: 8.789 min Scan# 2833
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 91 Resp: 259731

Ion	Ratio	Lower	Upper
91	100		
126	36.8	22.1	51.5
63	13.5	8.2	19.0

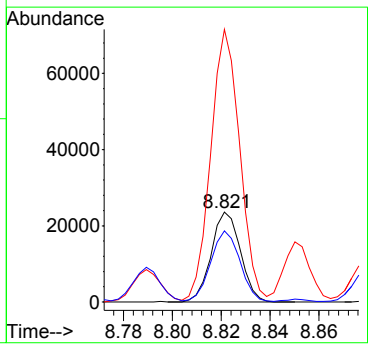


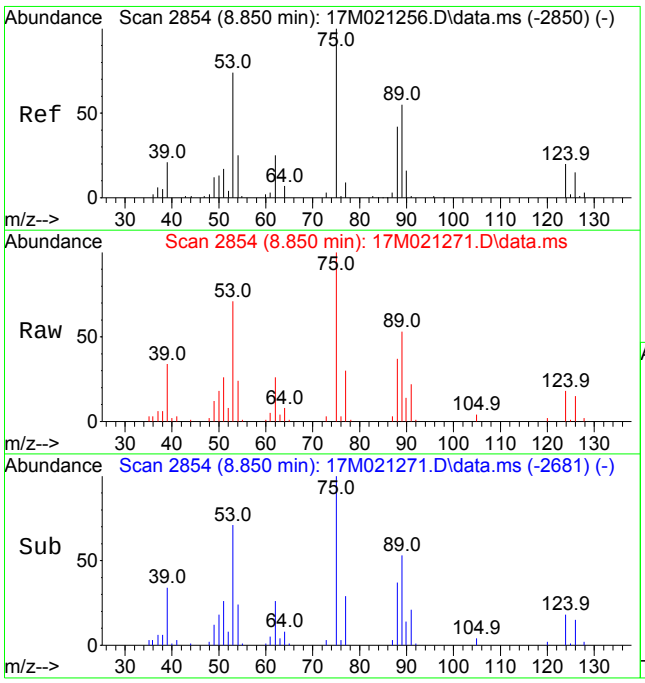


#71
1,2,3-Trichloropropane
Concen: 22.6795 ug/L
RT: 8.821 min Scan# 2844
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:110 Resp: 19557

Ion	Ratio	Lower	Upper
110	100		
75	301.6	239.0	358.6
61	80.4	63.0	94.4

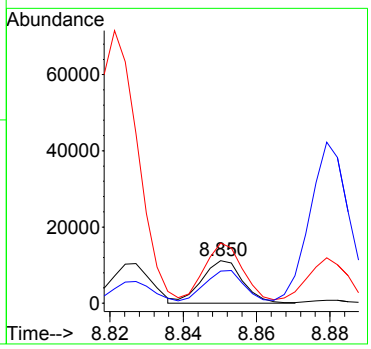


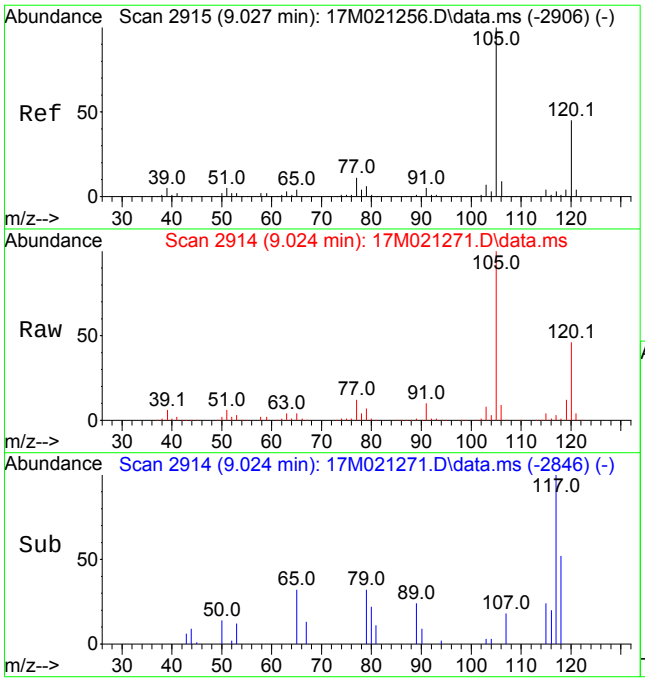


#72
trans-1,4-Dichloro-2-Butene
Concen: 20.7149 ug/L
RT: 8.850 min Scan# 2854
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 53 Resp: 8738

Ion	Ratio	Lower	Upper
53	100		
75	124.5	142.1	142.1#
89	77.4	62.3	93.5

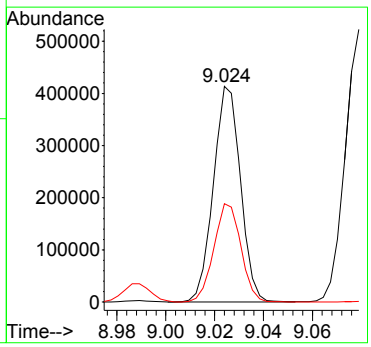


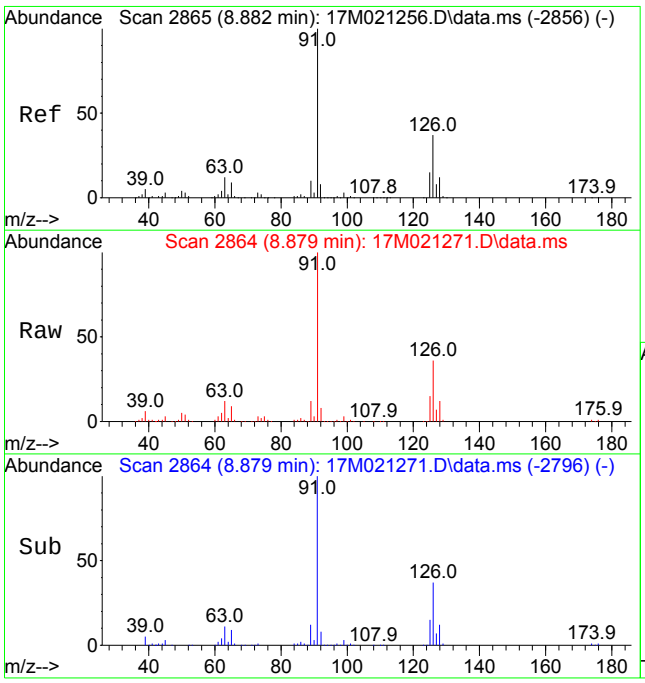


#73
1,2,4-Trimethylbenzene
Concen: 20.6052 ug/L
RT: 9.024 min Scan# 2914
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:105 Resp: 318971

Ion	Ratio	Lower	Upper
105	100		
120	45.5	36.6	54.8

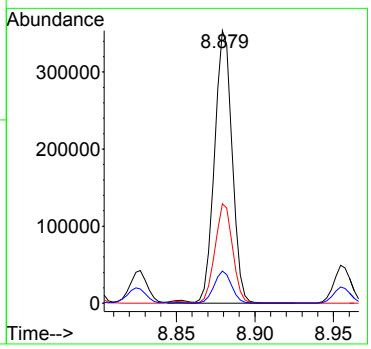


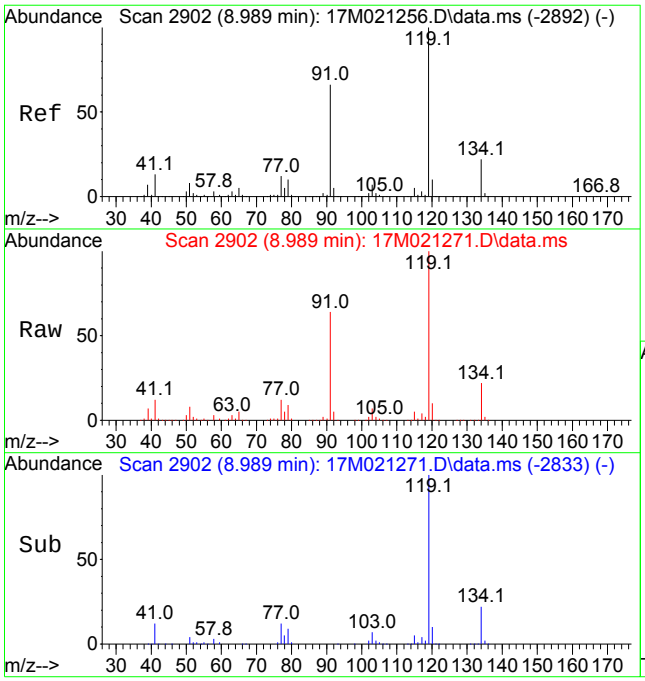


#74
4-Chlorotoluene
Concen: 21.0447 ug/L
RT: 8.879 min Scan# 2864
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 91 Resp: 277617

Ion	Ratio	Lower	Upper
91	100		
126	36.9	22.3	51.9
63	11.6	7.2	16.8

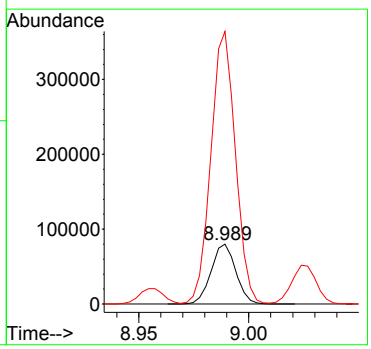


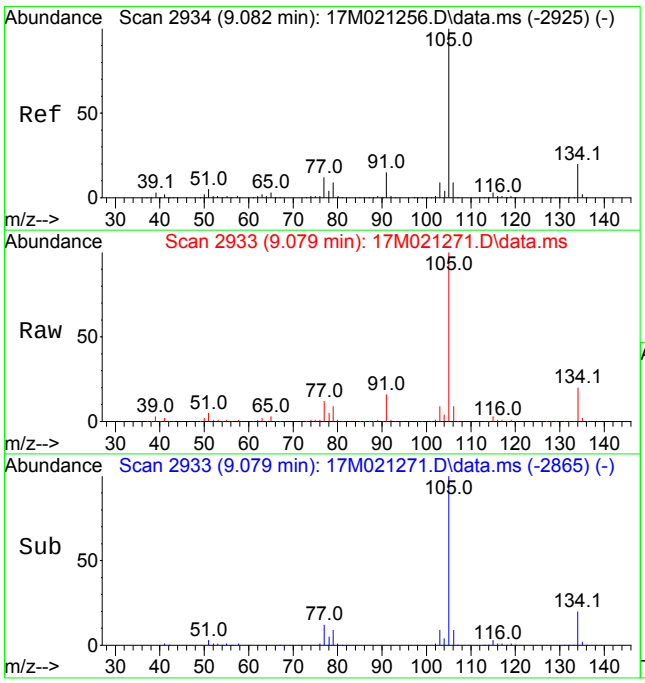


#75
tert-Butylbenzene
Concen: 21.4293 ug/L
RT: 8.989 min Scan# 2902
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:134 Resp: 62384

Ion	Ratio	Lower	Upper
134	100		
119	454.0	274.2	639.8

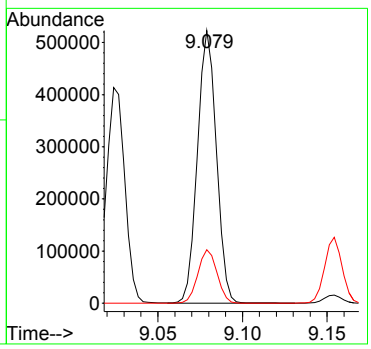


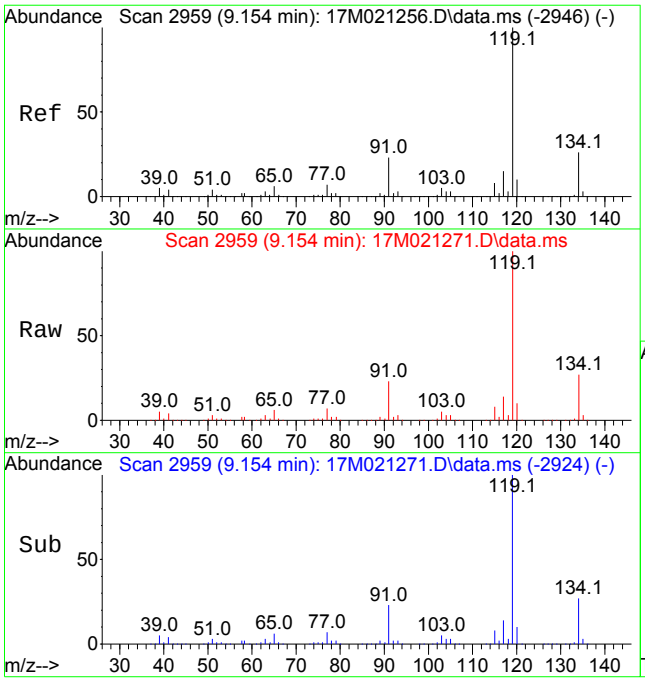


#76
sec-Butylbenzene
Concen: 21.2107 ug/L
RT: 9.079 min Scan# 2933
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:105 Resp: 407893

Ion	Ratio	Lower	Upper
105	100		
134	19.7	11.9	27.9

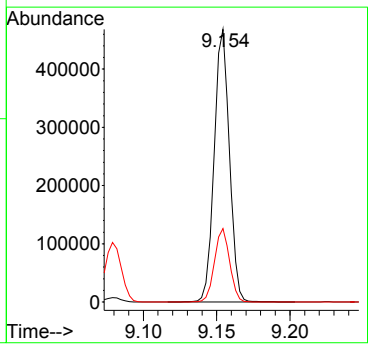


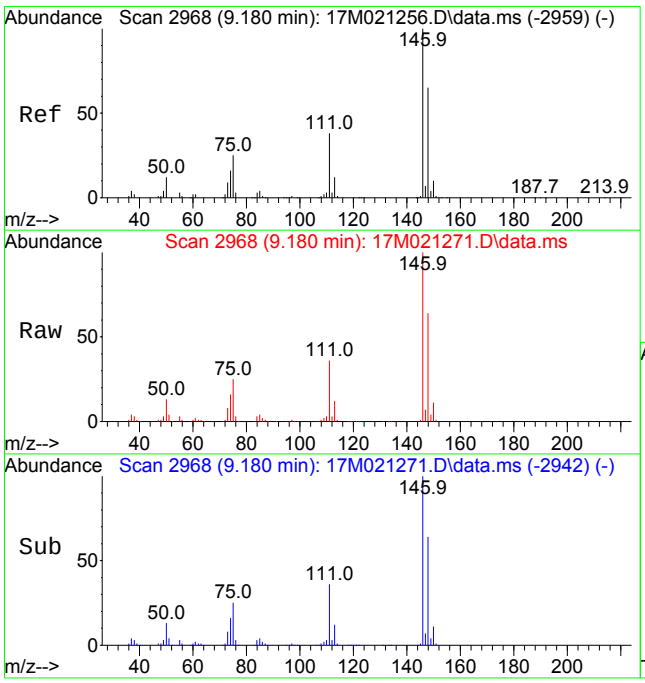


#77
p-Isopropyltoluene
Concen: 21.1697 ug/L
RT: 9.154 min Scan# 2959
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:119 Resp: 338728

Ion	Ratio	Lower	Upper
119	100		
134	26.8	16.0	37.4

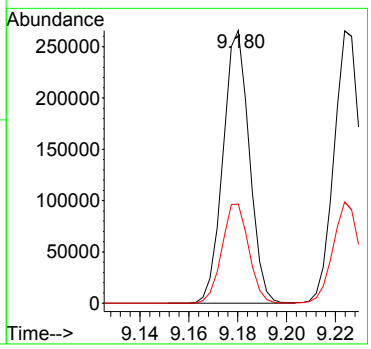


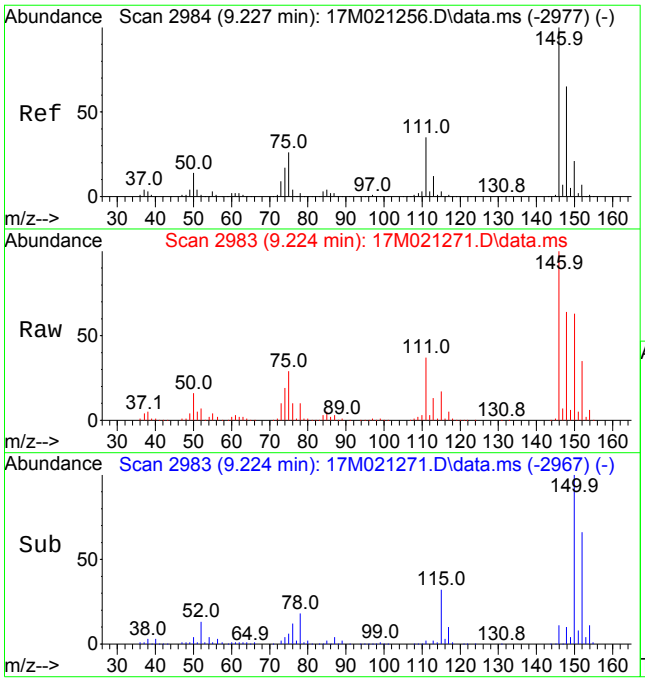


#78
1,3-Dichlorobenzene
Concen: 20.7127 ug/L
RT: 9.180 min Scan# 2968
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:146 Resp: 199216

Ion	Ratio	Lower	Upper
146	100		
111	37.2	22.4	52.2

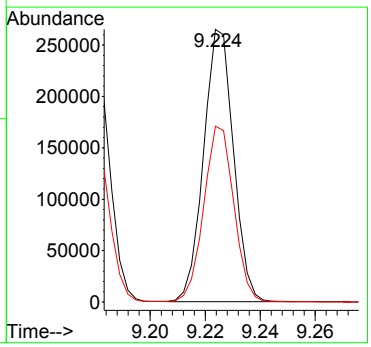


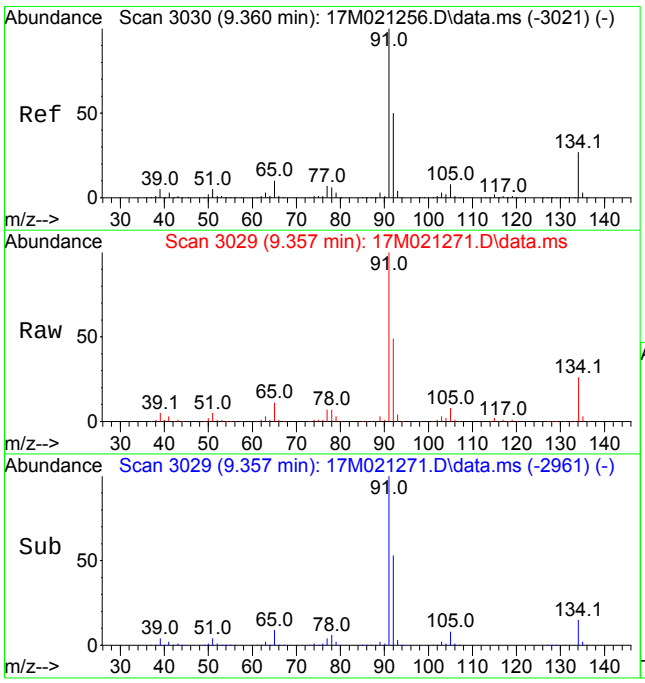


#79
1,4-Dichlorobenzene
Concen: 20.1034 ug/L
RT: 9.224 min Scan# 2983
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:146 Resp: 199529

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.6	77.4

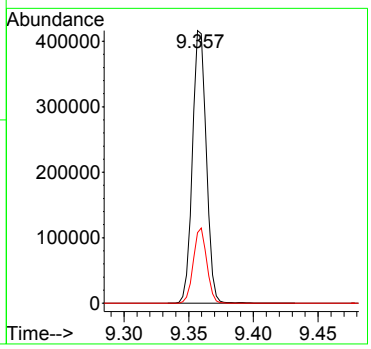


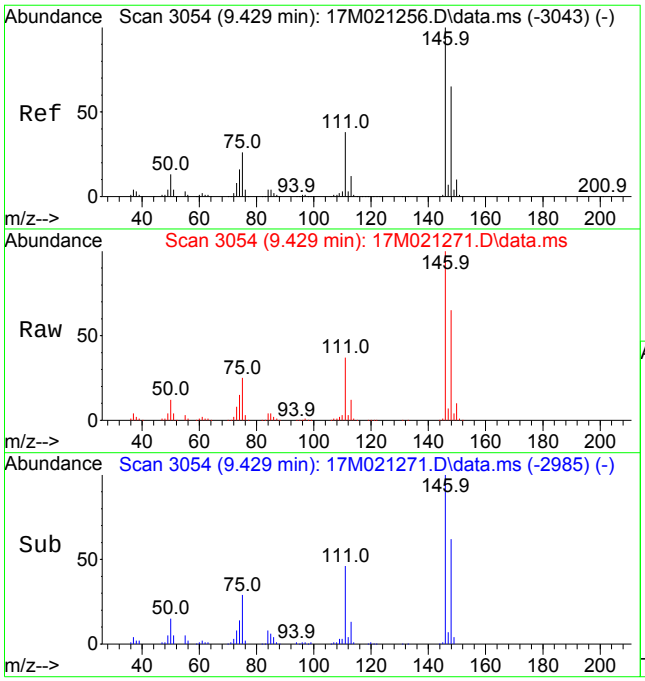


#80
n-Butylbenzene
Concen: 20.9080 ug/L
RT: 9.357 min Scan# 3029
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 91 Resp: 311813

Ion	Ratio	Lower	Upper
91	100		
134	26.6	16.1	37.5

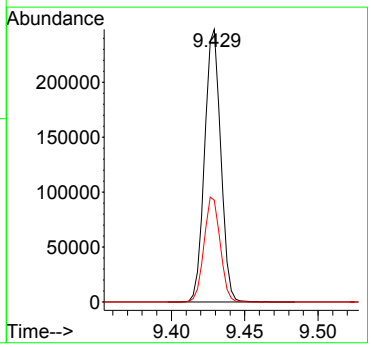


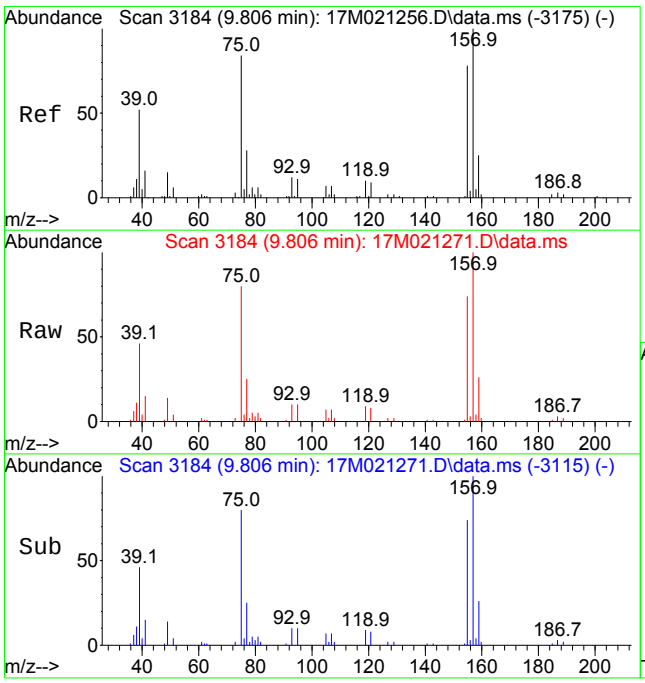


#81
1,2-Dichlorobenzene
Concen: 21.0830 ug/L
RT: 9.429 min Scan# 3054
Delta R.T. 0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:146 Resp: 190087

Ion	Ratio	Lower	Upper
146	100		
111	38.5	23.1	53.9

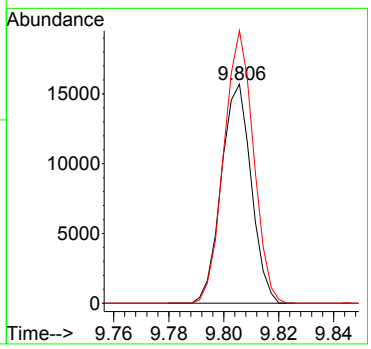


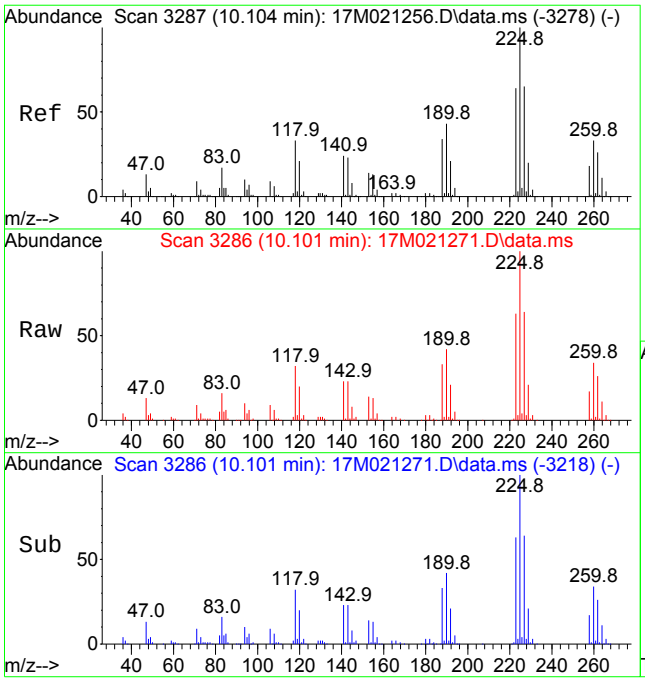


#82
1,2-Dibromo-3-Chloropropane
Concen: 25.5870 ug/L
RT: 9.806 min Scan# 3184
Delta R.T. -0.000 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion: 75 Resp: 11841

Ion	Ratio	Lower	Upper
75	100		
157	123.0	74.8	174.4

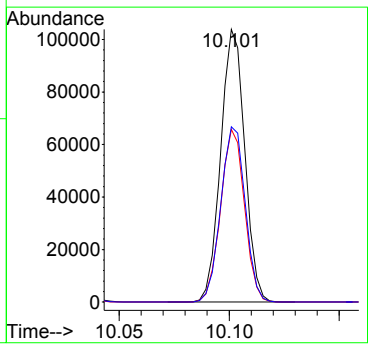


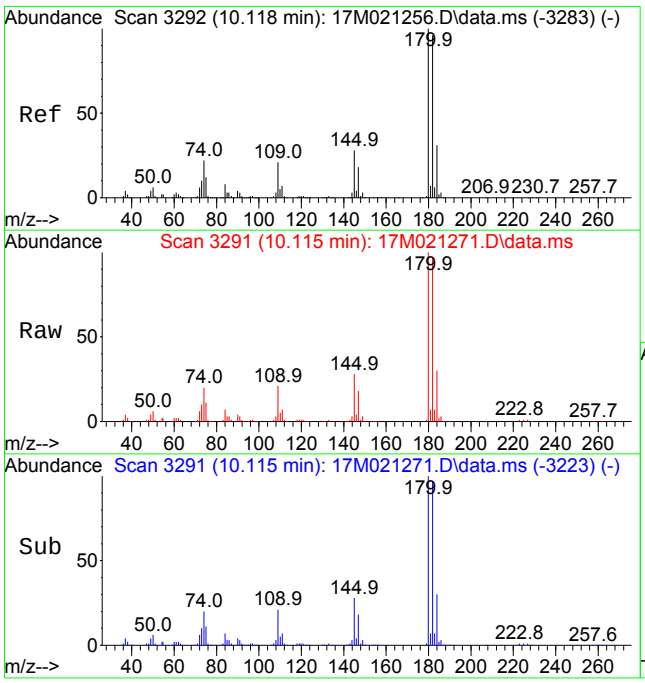


#83
Hexachlorobutadiene
Concen: 22.5230 ug/L
RT: 10.101 min Scan# 3286
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:225 Resp: 78913

Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.1	75.1
227	65.3	51.8	77.8

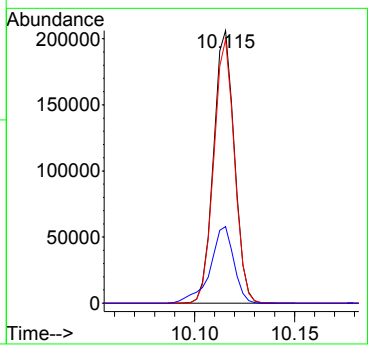


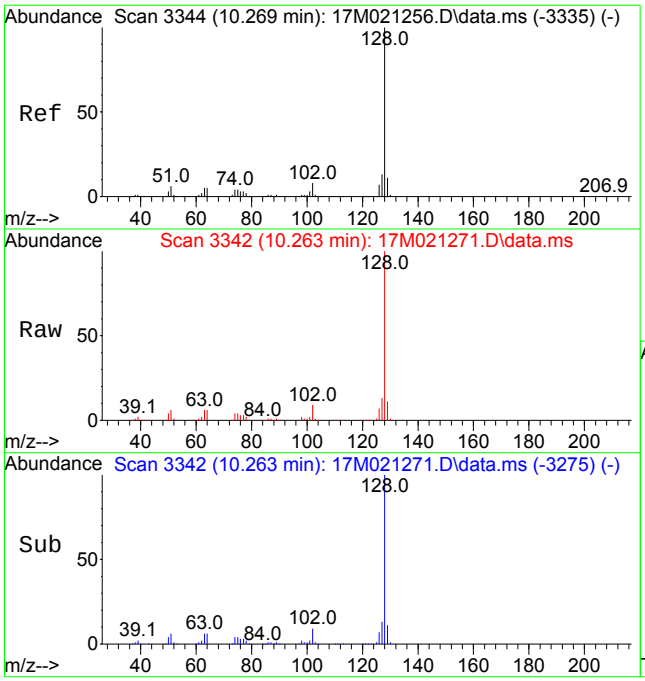


#84
1,2,4-Trichlorobenzene
Concen: 22.3699 ug/L
RT: 10.115 min Scan# 3291
Delta R.T. -0.003 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:180 Resp: 149384

Ion	Ratio	Lower	Upper
180	100		
182	95.7	57.5	134.1
145	32.0	19.4	45.2

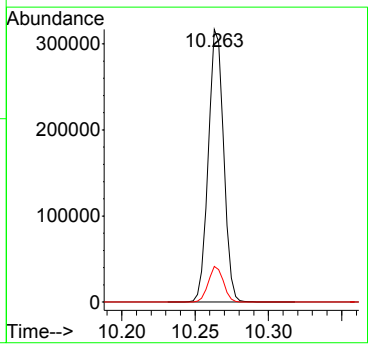


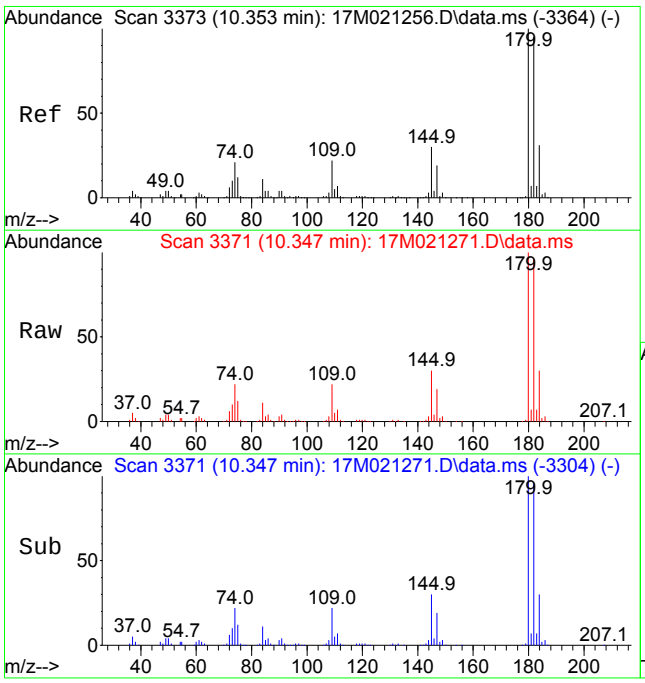


#85
Naphthalene
Concen: 22.5931 ug/L
RT: 10.263 min Scan# 3342
Delta R.T. -0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:128 Resp: 230248

Ion	Ratio	Lower	Upper
128	100		
127	12.8	7.8	18.2

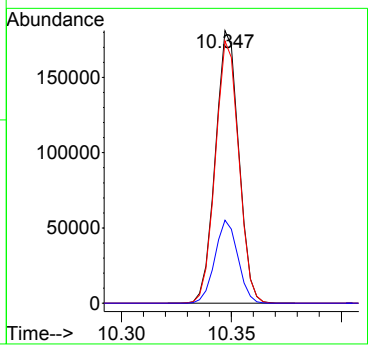




#86
1,2,3-Trichlorobenzene
Concen: 22.8629 ug/L
RT: 10.347 min Scan# 3371
Delta R.T. -0.006 min
Lab File: 17M021271.D
Acq: 20 May 2016 21:07

Tgt Ion:180 Resp: 133878

Ion	Ratio	Lower	Upper
180	100		
182	96.3	57.4	134.0
145	30.0	17.8	41.4



Data File : D:\MassHunter\GCMS\1\data\052116\17M021300.D Vial: 5
Acq On : 21 May 2016 16:02 Operator: jds
Sample : WG569789-02 20ug/L LCS 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:23:03 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	4.982	96	346468	25.00000	ug/L	0.0000
46) Chlorobenzene-d5	7.868	117	265267	25.00000	ug/L	0.0000
64) 1,4-Dichlorobenzene-d4	9.218	152	146844	25.00000	ug/L	0.0000
System Monitoring Compounds						
29) Dibromofluoromethane	3.983	111	96450	26.2840	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.136%			
34) 1,2-Dichloroethane-d4	4.643	65	87384	25.7542	ug/L	0.0000
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.017%			
47) Toluene-d8	6.577	98	364337	25.7186	ug/L	0.0000
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.874%			
66) p-Bromofluorobenzene	8.633	95	132784	26.1532	ug/L	0.0000
Spiked Amount 25.000	Range 86 - 115		Recovery = 104.613%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	0.995	85	65206	12.9381	ug/L	100
3) Chloromethane	1.105	50	66950	14.8498	ug/L	100
4) Vinyl Chloride	1.145	62	77063	17.0785	ug/L	99
5) 1,3-Butadiene	1.154	54	65898	18.1166	ug/L	100
6) Bromomethane	1.322	94	41511	14.5351	ug/L	100
7) Chloroethane	1.389	64	31548	15.5933	ug/L	92
8) Trichlorofluoromethane	1.461	101	90610	15.1793	ug/L	99
9) Diethyl ether	1.670	59	202275	87.3898	ug/L	100
10) 1,1-Dichloroethene	1.780	61	92321	16.3478	ug/L	100
11) Carbon Disulfide	1.791	76	211313	19.7421	ug/L	100
12) 1,1,2-Trichloro-1,2,2-...	1.806	101	62719	18.0602	ug/L	100
13) Iodomethane	1.872	142	56569	11.5937	ug/L	99
14) Acrolein	2.017	56	22339	54.4628	ug/L	100
15) Methylene Chloride	2.182	84	68462	18.1169	ug/L	98
16) Acetone	2.240	43	12274	22.3982	ug/L	98
17) trans-1,2-Dichloroethene	2.307	96	68552	18.6162	ug/L	99
18) Methyl acetate	2.335	43	39953	22.5626	ug/L #	91
19) Methyl Tert Butyl Ether	2.411	73	165403	20.7553	ug/L	96
20) 1,1-Dichloroethane	2.833	63	121480	17.6058	ug/L	99
21) Acrylonitrile	2.894	53	15680	20.8255	ug/L	99
22) Vinyl Acetate	3.117	86	6485	30.2896	ug/L #	1
23) cis-1,2-Dichloroethene	3.395	96	78767	19.1833	ug/L	99
24) 2,2-Dichloropropane	3.514	77	97134	17.7679	ug/L	99
25) Cyclohexane	3.607	56	120429	20.5945	ug/L #	74
26) Bromochloromethane	3.621	130	46631	18.6697	ug/L	100
27) Chloroform	3.745	83	126585	18.4683	ug/L	100
28) Carbon Tetrachloride	3.882	117	97566	18.8089	ug/L	99
30) 1,1,1-Trichloroethane	3.977	97	112940	18.4545	ug/L	99
31) 1,1-Dichloropropene	4.157	75	89904	17.9692	ug/L	99
32) 2-Butanone	4.186	43	18980	21.8845	ug/L	92
33) Benzene	4.472	78	281639	18.5663	ug/L	100
35) 1,2-Dichloroethane	4.727	62	82254	19.1487	ug/L	99
36) Methylcyclohexane	5.138	83	122467	20.2845	ug/L	99
37) Trichloroethene	5.167	130	93110	18.1559	ug/L	99
38) Dibromomethane	5.596	93	37899	18.3520	ug/L	100
39) 1,2-Dichloropropane	5.706	63	78582	19.6621	ug/L	100
40) Bromodichloromethane	5.795	83	94241	19.4237	ug/L	100
41) 1,4-Dioxane	6.015	88	4114	206.1792	ug/L	100
42) 2-Chloroethyl Vinyl Ether	6.395	63	29697	20.9347	ug/L	99
43) cis-1,3-Dichloropropene	6.409	75	115994	21.8030	ug/L	99
44) 4-Methyl-2-Pentanone	7.003	58	16104	21.0078	ug/L	96
45) trans-1,3-Dichloropropene	7.017	75	87127	20.1811	ug/L	100
48) Toluene	6.623	91	320954	19.0281	ug/L	100
49) Tetrachloroethene	6.956	166	89823	18.3117	ug/L	99
50) 1,1,2-Trichloroethane	7.148	97	55763	19.9819	ug/L	99
51) Dibromochloromethane	7.289	129	73640	19.1050	ug/L	100

Data File : D:\MassHunter\GCMS\1\data\052116\17M021300.D Vial: 5
Acq On : 21 May 2016 16:02 Operator: jds
Sample : WG569789-02 20ug/L LCS 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:23:03 2016

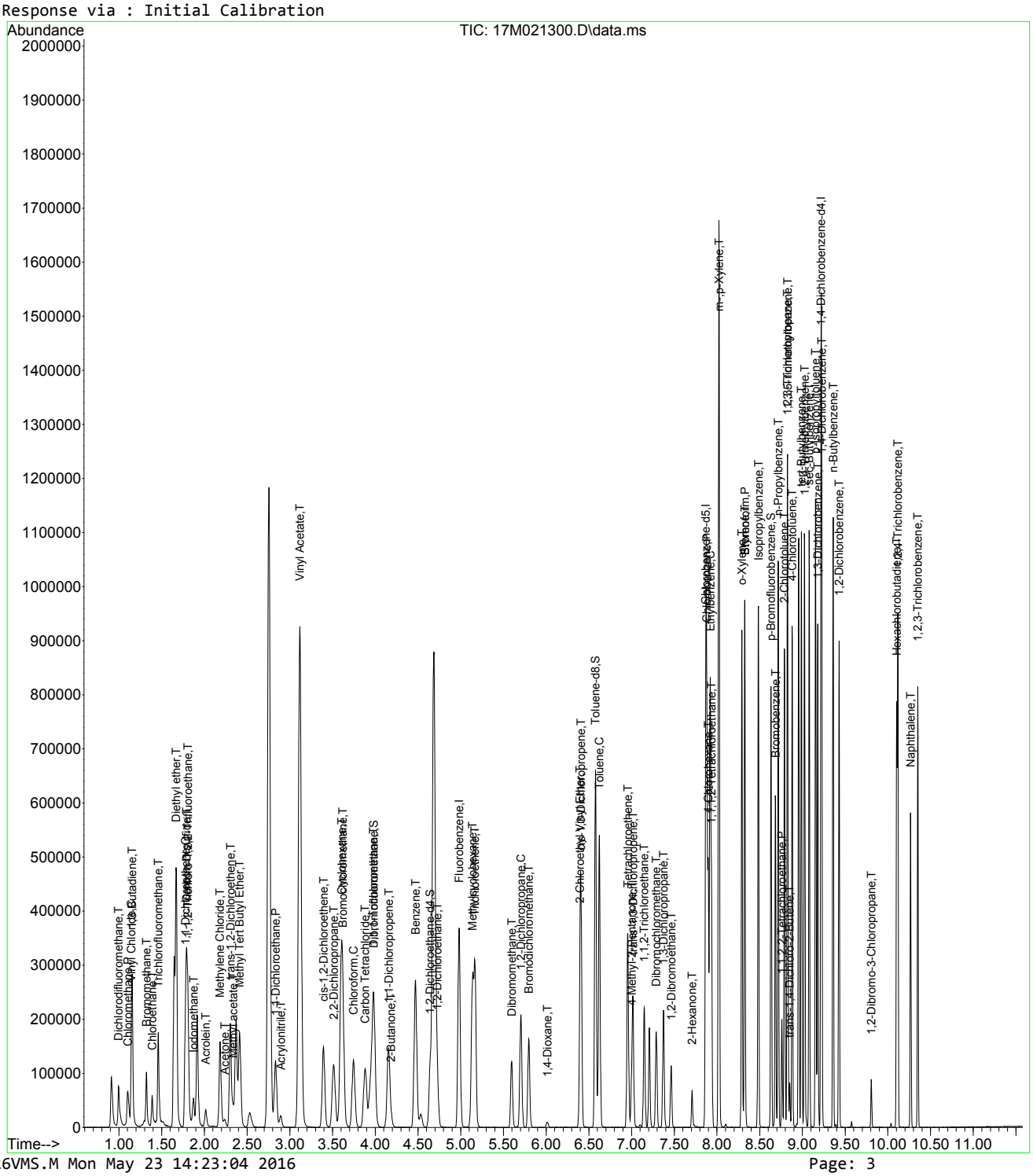
Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
52) 1,3-Dichloropropane	7.373	76	91942	20.4855 ug/L	99
53) 1,2-Dibromoethane	7.463	107	55337	19.8204 ug/L	100
54) 2-Hexanone	7.709	43	29013	20.8231 ug/L	99
55) Chlorobenzene	7.880	112	218035	19.6721 ug/L	100
56) 1-Chlorohexane	7.897	69	18755	20.4393 ug/L	99
57) Ethylbenzene	7.921	106	112728	19.3379 ug/L	99
58) 1,1,1,2-Tetrachloroethane	7.935	131	78602	20.3160 ug/L	99
59) m-,p-Xylene	8.022	106	277377	40.1857 ug/L	100
60) o-Xylene	8.291	106	137006	20.2249 ug/L	99
61) Styrene	8.326	104	223111	20.6515 ug/L	100
62) Bromoform	8.326	173	45690	18.5327 ug/L	99
63) Isopropylbenzene	8.485	105	359092	20.4624 ug/L	100
65) 1,3,5-Trimethylbenzene	8.827	105	310790	20.7334 ug/L	100
67) Bromobenzene	8.685	156	99163	19.3463 ug/L	100
68) n-Propylbenzene	8.717	91	418972	20.9595 ug/L	100
69) 1,1,2,2-Tetrachloroethane	8.760	83	49421	23.4701 ug/L	99
70) 2-Chlorotoluene	8.789	91	249103	20.2024 ug/L	100
71) 1,2,3-Trichloropropane	8.824	110	17457	20.8916 ug/L	99
72) trans-1,4-Dichloro-2-B...	8.850	53	7404	18.2416 ug/L #	97
73) 1,2,4-Trimethylbenzene	9.027	105	309755	20.6497 ug/L	99
74) 4-Chlorotoluene	8.879	91	265496	20.7695 ug/L	100
75) tert-Butylbenzene	8.989	134	59698	21.1624 ug/L	100
76) sec-Butylbenzene	9.079	105	393956	21.1411 ug/L	100
77) p-Isopropyltoluene	9.154	119	328634	21.1957 ug/L	100
78) 1,3-Dichlorobenzene	9.180	146	193285	20.7387 ug/L	100
79) 1,4-Dichlorobenzene	9.226	146	193588	20.1285 ug/L	100
80) n-Butylbenzene	9.360	91	309883	21.4431 ug/L	100
81) 1,2-Dichlorobenzene	9.429	146	182818	20.9252 ug/L	99
82) 1,2-Dibromo-3-Chloropr...	9.805	75	10379	23.1450 ug/L	99
83) Hexachlorobutadiene	10.104	225	77783	22.9105 ug/L	99
84) 1,2,4-Trichlorobenzene	10.115	180	146108	22.5790 ug/L	100
85) Naphthalene	10.266	128	216551	21.9287 ug/L	100
86) 1,2,3-Trichlorobenzene	10.350	180	131129	23.1096 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : D:\MassHunter\GCMS\1\data\052116\17M021300.D Vial: 5
Acq On : 21 May 2016 16:02 Operator: jds
Sample : WG569789-02 20ug/L LCS 8260 Inst : HPMS17
Misc : 1,1 STD75977 Multiplr: 1.00
Integrator: RTE
Quant Time: May 23 14:23:03 2016

Quant Method : D:\MassHunter\GCMS\1\methods\826VMS.M
Quant Title : 8260B/624 SOP:OVL MSV01 WATER 05/20/16 HPMS17
QLast Update : Sat May 21 11:03:39 2016
Response via : Initial Calibration



826VMS.M Mon May 23 14:23:04 2016 Page: 3

2.2 General Chromatography Data

2.2.1 6850 LC/MS Data

2.2.1.1 Summary Data

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-01	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW07-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 15:14
Collect Date:	05/11/2016 07:50	**Dilution:**	1	**File ID:**	1LM.LM35059
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	1.08		0.400	0.200	0.100

Certificate of Analysis

Sample #:	L16050763-02	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW07MS-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 15:33
Collect Date:	05/11/2016 07:50	**Dilution:**	1	**File ID:**	1LM.LM35060
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	1.29		0.400	0.200	0.100

Certificate of Analysis

Sample #:	L16050763-03	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW07MSD-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 15:52
Collect Date:	05/11/2016 07:50	**Dilution:**	1	**File ID:**	1LM.LM35061
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	1.28		0.400	0.200	0.100

Certificate of Analysis

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Sample #:	L16050763-04	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW28-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 16:10
Collect Date:	05/11/2016 11:20	**Dilution:**	1	**File ID:**	1LM.LM35062
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	1.12		0.400	0.200	0.100

Certificate of Analysis

Sample #:	L16050763-05	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW20-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 16:29
Collect Date:	05/11/2016 13:25	**Dilution:**	1	**File ID:**	1LM.LM35063
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-06	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW05-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 16:48
Collect Date:	05/11/2016 14:25	**Dilution:**	1	**File ID:**	1LM.LM35064
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.134	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-07	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW05FD-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 17:07
Collect Date:	05/11/2016 14:25	**Dilution:**	1	**File ID:**	1LM.LM35065
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.276	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-08	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW16-051116	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 18:23
Collect Date:	05/11/2016 15:25	**Dilution:**	1	**File ID:**	1LM.LM35069
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.101	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-09	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW01-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 18:42
Collect Date:	05/12/2016 07:20	**Dilution:**	1	**File ID:**	1LM.LM35070
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-10	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW09-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 19:01
Collect Date:	05/12/2016 08:25	**Dilution:**	1	**File ID:**	1LM.LM35071
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-11	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW10-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 19:20
Collect Date:	05/12/2016 09:25	**Dilution:**	1	**File ID:**	1LM.LM35072
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-12	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW10FD-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 19:39
Collect Date:	05/12/2016 09:25	**Dilution:**	1	**File ID:**	1LM.LM35073
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-13	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW15-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 19:58
Collect Date:	05/12/2016 10:30	**Dilution:**	1	**File ID:**	1LM.LM35074
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-14	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW27-05126	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 20:17
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	1LM.LM35075
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-15	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW27MS-05126	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 20:36
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	1LM.LM35076
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.195	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-16	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW27MSD-05126	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 20:55
Collect Date:	05/12/2016 13:40	**Dilution:**	1	**File ID:**	1LM.LM35077
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.195	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-17	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW21-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 22:29
Collect Date:	05/12/2016 14:40	**Dilution:**	1	**File ID:**	1LM.LM35082
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.398	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050763-18	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW21FD-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 22:48
Collect Date:	05/12/2016 14:40	**Dilution:**	1	**File ID:**	1LM.LM35083
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.418		0.400	0.200	0.100

Certificate of Analysis

Sample #:	L16050763-19	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW26-051216	**Prep Method:**	6850	**Prep Date:**	05/23/2016 13:00
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG569894	**Analyst:**	JWR	**Run Date:**	05/23/2016 21:14
Collect Date:	05/12/2016 15:35	**Dilution:**	1	**File ID:**	1LM.LM35078
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050763
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

2.2.1.2 QC Summary Data

Example Calculation 6850 - Perchlorate

Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of internal standard (IS) = Rx/Ristd

x = amount ratio = concentration analyte/concentration internal standard (IS) = Cx / Cistd

m = slope from curve (1.45)

b = intercept from curve (-0.00242)

y = 1.45x + -0.00242

Step 2: Substitute the value for y

where y = 12600/226000 = 0.055752

Step 3: Solve for x

x = (y - b)/m = 0.0040119

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(x) = (5 ug/L)(0.040119) = 0.200594 ug/L

Example Calculation - Water:

Slope from curve, m:	1.45
Intercept from curve, b:	-0.00242
Response of analyte, Rx:	12600
Response of Internal Standard , Ristd:	226000
Concentration of IS, Cistd (ug/L):	5.00
Response Ratio:	0.05575
Amount Ratio:	0.04012
Analyte Concentration, Cx (ug/L) :	0.200594

Example Calculation - Soil:

Analyte Concentration, Cx (ug/L):	0.20059
Amount of soil extracted (g):	5.00
Final volume of extract (mL):	50.00
Percent solids (Pct wt.)	100
Concentration in soil (ug/kg):	2.005938

Perchlorate Conductivity Check
(perchlorate1)

Conductivity Probe Calibration Check: 1409 /1410 µs/cm

Working MCT Level: 10,000 µs/cm

Sample	Conductivity (µs/cm)	Pretreatment or Dilution Needed
WG569894-01 MCT	9,870.	
-02 Blank	0.33	
-03 LCS	0.58	
L16050763-01 RS	1,385.	
-02 MS	1,382.	
-03 MSD	1,380.	
-04	127.3	
-05	1,663.	
-06	1,596.	
-07	1,606.	
-08	309.	
-09	930.	
-10	2,660.	
-11	1,282.	
-12	1,303.	
-13	1,989.	
-14 RS	1,643.	
-15 MS	1,638.	
-16 MSD	1,642.	
-17	9,260.	
-18	9,290.	
-19	5,410.	

Analyst: John Richards

Date/Time: 05/24/16 / 10:15

DCN#118647

Microbac Laboratories Inc.

Instrument Run Log

Instrument: LCMS1 Dataset: 050316_JWR.TXT
Analyst1: JWR Analyst2: NA
Method: 6850 SOP: HPLC06 Rev: 8

Maintenance Log ID: Syringe Filter Lot#: 151125254
Eluent ID#:

Workgroups: Column 1 ID: KP-RPPX250 Column 2 ID: NA
Analytical WG567013 (soils)
Internal STD: COA18071 Surrogate STD: NA Calibration STD STD75510 (05/03/2016)
CCV STD: STD75510 LCS STD: STD75512 MS/MSD STD: STD75512

Comments: ICAL WG567320 : Alternate Source STD75512
Analytical Column : RPPX 5um (250x4.6mm)
K'Prime S/N RPPX250-02115

Samples L16041363(-05 and -10) were analyzed at dilutions based on their pre-run screen results.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	1LM.LM34686	WG567320-01 CCB	1	1		05/03/16 15:06
2	1LM.LM34687	WG567320-02 STD (0.1 ug/L)	1	1	STD75510	05/03/16 15:25
3	1LM.LM34688	WG567320-03 STD (0.2 ug/L)	1	1	STD75510	05/03/16 15:43
4	1LM.LM34689	WG567320-04 STD (0.5 ug/L)	1	1	STD75510	05/03/16 16:02
5	1LM.LM34690	WG567320-05 STD (1.0 ug/L)	1	1	STD75510	05/03/16 16:21
6	1LM.LM34691	WG567320-06 STD (2.0 ug/L)	1	1	STD75510	05/03/16 16:40
7	1LM.LM34692	WG567320-07 STD (5.0 ug/L)	1	1	STD75510	05/03/16 16:59
8	1LM.LM34693	WG567320-08 STD (10 ug/L)	1	1	STD75510	05/03/16 17:18
9	1LM.LM34694	WG567320-09 SSCV (1.0 ug/L)	1	1	STD75512	05/03/16 17:37
10	1LM.LM34695	WG567321-01 CCB	1	1		05/03/16 17:56
11	1LM.LM34696	WG567321-02 CCV (1.0ug/L)	1	1	STD75510	05/03/16 18:15
12	1LM.LM34697	WG567013-07 MRL (2.0ug/kg)	7	1	STD75510	05/03/16 18:34
13	1LM.LM34698	WG567013-01 MCT (2.0ug/kg)	7	1	STD75512	05/03/16 18:53
14	1LM.LM34699	WG567013-02 BLANK	7	1		05/03/16 19:12
15	1LM.LM34700	WG567013-03 LCS (2.0ug/kg)	7	1	STD75512	05/03/16 19:31
16	1LM.LM34701	L16041363-07 RS	7	1		05/03/16 19:50
17	1LM.LM34702	L16041363-08 MS	7	1	STD75512	05/03/16 20:09
18	1LM.LM34703	L16041363-09 MSD	7	1	STD75512	05/03/16 20:28
19	1LM.LM34704	L16041363-01	7	1		05/03/16 20:46
20	1LM.LM34705	L16041363-02	7	1		05/03/16 21:05
21	1LM.LM34706	L16041363-03	7	1		05/03/16 21:24
22	1LM.LM34707	L16041363-04	7	1		05/03/16 21:43
23	1LM.LM34708	WG567321-03 CCV (1.0ug/L)	1	1	STD75510	05/03/16 22:02
24	1LM.LM34709	WG567013-08 MRL (2.0ug/kg)	7	1	STD75510	05/03/16 22:21
25	1LM.LM34710	WG567321-04 CCB	1	1		05/03/16 22:40
26	1LM.LM34711	L16041363-05 (5x)	7	5		05/03/16 22:59
27	1LM.LM34712	L16041363-06	7	1		05/03/16 23:18
28	1LM.LM34713	L16041363-10 (5x)	7	5		05/03/16 23:37
29	1LM.LM34714	WG567321-05 CCV (1.0ug/L)	1	1	STD75510	05/03/16 23:56
30	1LM.LM34715	WG567013-09 MRL (2.0ug/kg)	7	1	STD75510	05/04/16 00:15
31	1LM.LM34716	WG567321-06 CCB	1	1		05/04/16 00:34

Comments

Page: 1 Approved: 05-MAY-16

Microbac Laboratories Inc.

Instrument Run Log

Instrument: LCMS1 Dataset: 050316_JWR.TXT

Analyst1: JWR Analyst2: NA

Method: 6850 SOP: HPLC06 Rev: 8

Maintenance Log ID: Syringe Filter Lot#: 151125254

Eluent ID#:

Workgroups: Column 1 ID: KP-RPPX250 Column 2 ID: NA

Analytical WG567013 (soils)

Internal STD: COA18071 Surrogate STD: NA STD75510 (05/03/2016)

CCV STD: STD75510 LCS STD: STD75512 STD75512

Comments

Seq.	Rerun	Dil.	Reason	Analytes
17				
	L16041363-08 MS : The MS %Rec is 129%. This is above the advisory limit of 120%. The parent sample to this MS had responses that passed the ion-ratio criteria, but had a quantified value below the method's detection limit, resulting in an assigned value of zero. If the quantified value for the parent sample were used in the %Rec calculation, the MS %Rec would be 93.9%.			
18				
	L16041363-09 MSD : The MSD %Rec is 131%. This is above the advisory limit of 120%. The parent sample to this MSD had responses that passed the ion-ratio criteria, but had a quantified value below the method's detection limit, resulting in an assigned value of zero. If the quantified value for the parent sample were used in the %Rec calculation, the MSD %Rec would be 95.4%.			

Page: 2 Approved: 05-MAY-16

Microbac Laboratories Inc.

Instrument Run Log

Instrument: LCMS1 Dataset: 052316_JWR.TXT
Analyst1: JWR Analyst2: NA
Method: 6850 SOP: HPLC06 Rev: 8

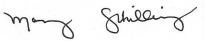
Maintenance Log ID: Syringe Filter Lot#: 151125254
Eluent ID#:

Workgroups: Column 1 ID: KP-RPPX250 Column 2 ID: NA
Analytical WG569894 (waters)
Internal STD: COA18071 Surrogate STD: NA Calibration STD STD75510 (05/03/2016)
CCV STD: STD75510 LCS STD: STD75512 MS/MSD STD: STD75512

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	1LM.LM35053	WG569899-01 CCB	1	1		05/23/16 13:20
2	1LM.LM35054	WG569899-02 CCV (1.0ug/L)	1	1	STD75510	05/23/16 13:39
3	1LM.LM35055	WG569894-10 MRL (0.2ug/L)	1	1	STD75510	05/23/16 13:58
4	1LM.LM35056	WG569894-01 MCT (0.2ug/L)	1	1	STD75512	05/23/16 14:17
5	1LM.LM35057	WG569894-02 BLANK	1	1		05/23/16 14:36
6	1LM.LM35058	WG569894-03 LCS (0.2ug/L)	1	1	STD75512	05/23/16 14:55
7	1LM.LM35059	L16050763-01 RS	1	1		05/23/16 15:14
8	1LM.LM35060	L16050763-02 MS	1	1	STD75512	05/23/16 15:33
9	1LM.LM35061	L16050763-03 MSD	1	1	STD75512	05/23/16 15:52
10	1LM.LM35062	L16050763-04	1	1		05/23/16 16:10
11	1LM.LM35063	L16050763-05	1	1		05/23/16 16:29
12	1LM.LM35064	L16050763-06	1	1		05/23/16 16:48
13	1LM.LM35065	L16050763-07	1	1		05/23/16 17:07
14	1LM.LM35066	WG569899-03 CCV (1.0ug/L)	1	1	STD75510	05/23/16 17:26
15	1LM.LM35067	WG569894-11 MRL (0.2ug/L)	1	1	STD75510	05/23/16 17:45
16	1LM.LM35068	WG569899-04 CCB	1	1		05/23/16 18:04
17	1LM.LM35069	L16050763-08	1	1		05/23/16 18:23
18	1LM.LM35070	L16050763-09	1	1		05/23/16 18:42
19	1LM.LM35071	L16050763-10	1	1		05/23/16 19:01
20	1LM.LM35072	L16050763-11	1	1		05/23/16 19:20
21	1LM.LM35073	L16050763-12	1	1		05/23/16 19:39
22	1LM.LM35074	L16050763-13	1	1		05/23/16 19:58
23	1LM.LM35075	L16050763-14 RS	1	1		05/23/16 20:17
24	1LM.LM35076	L16050763-15 MS	1	1	STD75512	05/23/16 20:36
25	1LM.LM35077	L16050763-16 MSD	1	1	STD75512	05/23/16 20:55
26	1LM.LM35078	L16050763-19	1	1		05/23/16 21:14
27	1LM.LM35079	WG569899-05 CCV (1.0ug/L)	1	1	STD75510	05/23/16 21:32
28	1LM.LM35080	WG569894-12 MRL (0.2ug/L)	1	1	STD75510	05/23/16 21:51
29	1LM.LM35081	WG569899-06 CCB	1	1		05/23/16 22:10
30	1LM.LM35082	L16050763-17	1	1		05/23/16 22:29
31	1LM.LM35083	L16050763-18	1	1		05/23/16 22:48
32	1LM.LM35084	WG569899-07 CCV (1.0ug/L)	1	1	STD75510	05/23/16 23:07
33	1LM.LM35085	WG569894-13 MRL (0.2ug/L)	1	1	STD75510	05/23/16 23:26

Page: 1 Approved: 24-MAY-16



Microbac Laboratories Inc.

Instrument Run Log

Instrument: LCMS1 Dataset: 052316_JWR.TXT

Analyst1: JWR Analyst2: NA

Method: 6850 SOP: HPLC06 Rev: 8

Maintenance Log ID: Syringe Filter Lot#: 151125254

Eluent ID#:

Column 1 ID: KP-RPPX250 Column 2 ID: NA

Workgroups: Analytical WG569894 (waters)

Internal STD: COA18071 Surrogate STD: NA STD75510 (05/03/2016)

CCV STD: STD75510 LCS STD: STD75512 STD75512

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
34	1LM.LM35086	WG569899-08 CCB	1	1		05/23/16 23:45

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 2 Approved: 24-MAY-16

Microbac Laboratories Inc.

Data Checklist

Date: 03-MAY-2016
Analyst: JWR
Analyst: NA
Method: 6850
Instrument: LCMS1
Curve Workgroup: WG567320
Runlog ID: 74891
Analytical Workgroups: L16041363 (SOILS)

ANALYTICAL	
System Performance Check	NA
DFTPP (GCMS)	NA
Endrin/DDT breakdown (8081/GCMS)	NA
Pentachlorophenol/benzidine tailing (GCMS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	X
Average RF	NA
Linear regression or higher order curve	X
Alternate source standard (ICV) % Difference	X
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (GCMS)	X
Continuing calibration blank (CCB) (IC/LCMS)	X
Limit of quantitation verification (LOQV) (LCMS)	X
Special standards	NA
Blanks	X
TCL hits	ND
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	NA
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Interference check sample (ICS) (LCMS)	MCT
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	NA
Internal standard areas (MS)	X
Library searches (GCMS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	NA
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	
Check for completeness	X
Primary Reviewer	JWR
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	WTD

Primary Reviewer:
04-MAY-2016
John Richards

Secondary Reviewer:
05-MAY-2016
Wade D

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-05-2016 16:23:46

Microbac Laboratories Inc.

Data Checklist

Date: 23-MAY-2016
Analyst: JWR
Analyst: NA
Method: 6850
Instrument: LCMS1
Curve Workgroup: NA
Runlog ID: 75268
Analytical Workgroups: L16050763 (WATERS)

ANALYTICAL	
System Performance Check	NA
DFTPP (GCMS)	NA
Endrin/DDT breakdown (8081/GCMS)	NA
Pentachlorophenol/benzidine tailing (GCMS)	NA
Eluent check (IC)/system pressure (HPLC)	NA
Window standard (FID)	NA
Initial Calibration	NA
Average RF	NA
Linear regression or higher order curve	NA
Alternate source standard (ICV) % Difference	NA
Continuing Calibration (CCV)	X
% D/% Drift	X
Minimum response factors (GCMS)	X
Continuing calibration blank (CCB) (IC/LCMS)	X
Limit of quantitation verification (LOQV) (LCMS)	X
Special standards	NA
Blanks	X
TCL hits	ND
Surrogate recoveries	NA
LCS/LCSD (Laboratory Control Sample)	X
Recoveries	X
Surrogate recoveries	NA
MS/MSD/Sample duplicates	X
Recoveries	X
%RPD	X
Interference check sample (ICS) (LCMS)	MCT
Samples	X
TCL hits	X
Mass spectra (MS/HPLC)/2nd column confirmations (ECD/FID/HPLC)	NA
Surrogate recoveries	NA
Internal standard areas (MS)	X
Library searches (GCMS)	NA
Calculations & correct factors	X
Compounds above calibration range	NA
Reruns	NA
Manual integrations	NA
Project/client specific requirements	X
REPORTING	
Upload batch form	X
KOBRA workgroup data/forms/bench sheets	X
Case narratives	
Check for completeness	X
Primary Reviewer	JWR
SUPERVISORY/SECONDARY REVIEW	
Check for compliance with method and project specific requirements	X
Check the completeness/accuracy of reported information	X
Data qualifiers	X
Secondary Reviewer	MES

Primary Reviewer:
24-MAY-2016

Secondary Reviewer:
24-MAY-2016

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-24-2016 11:54:48

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 6850 AAB#: WG569894

Login Number: L16050763

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
50WW07-051116	01	05/11/16					05/23/2016	12.2	28		05/23/16	.1	28	
50WW07MS-051116	02	05/11/16					05/23/2016	12.2	28		05/23/16	.1	28	
50WW07MSD-051116	03	05/11/16					05/23/2016	12.2	28		05/23/16	.1	28	
50WW28-051116	04	05/11/16					05/23/2016	12.1	28		05/23/16	.1	28	
50WW20-051116	05	05/11/16					05/23/2016	12	28		05/23/16	.1	28	
50WW05-051116	06	05/11/16					05/23/2016	11.9	28		05/23/16	.2	28	
50WW05FD-051116	07	05/11/16					05/23/2016	11.9	28		05/23/16	.2	28	
50WW16-051116	08	05/11/16					05/23/2016	11.9	28		05/23/16	.2	28	
50WW01-051216	09	05/12/16					05/23/2016	11.2	28		05/23/16	.2	28	
50WW09-051216	10	05/12/16					05/23/2016	11.2	28		05/23/16	.3	28	
50WW10-051216	11	05/12/16					05/23/2016	11.1	28		05/23/16	.3	28	
50WW10FD-051216	12	05/12/16					05/23/2016	11.1	28		05/23/16	.3	28	
50WW15-051216	13	05/12/16					05/23/2016	11.1	28		05/23/16	.3	28	
50WW27-05126	14	05/12/16					05/23/2016	11	28		05/23/16	.3	28	
50WW27MS-05126	15	05/12/16					05/23/2016	11	28		05/23/16	.3	28	
50WW27MSD-05126	16	05/12/16					05/23/2016	11	28		05/23/16	.3	28	
50WW21-051216	17	05/12/16					05/23/2016	10.9	28		05/23/16	.4	28	
50WW21FD-051216	18	05/12/16					05/23/2016	10.9	28		05/23/16	.4	28	
50WW26-051216	19	05/12/16					05/23/2016	10.9	28		05/23/16	.3	28	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4777039
Report generated 05/24/2016 11:58

METHOD BLANK SUMMARY

Login Number: L16050763
Work Group: WG569894
Blank File ID: 1LM.LM35057
Blank Sample ID: WG569894-02
Prep Date: 05/23/16 13:00
Instrument ID: LCMS1
Analyzed Date: 05/23/16 14:36
Method: 6850
Analyst: JWR

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
QCMRL	WG569894-10	1LM.LM35055	05/23/16 13:58	01
MCT	WG569894-01	1LM.LM35056	05/23/16 14:17	01
LCS	WG569894-03	1LM.LM35058	05/23/16 14:55	01
50WW07-051116	L16050763-01	1LM.LM35059	05/23/16 15:14	01
50WW07MS-051116	L16050763-02	1LM.LM35060	05/23/16 15:33	01
50WW07MSD-051116	L16050763-03	1LM.LM35061	05/23/16 15:52	01
50WW28-051116	L16050763-04	1LM.LM35062	05/23/16 16:10	01
50WW20-051116	L16050763-05	1LM.LM35063	05/23/16 16:29	01
50WW05-051116	L16050763-06	1LM.LM35064	05/23/16 16:48	01
50WW05FD-051116	L16050763-07	1LM.LM35065	05/23/16 17:07	01
QCMRL	WG569894-11	1LM.LM35067	05/23/16 17:45	01
50WW16-051116	L16050763-08	1LM.LM35069	05/23/16 18:23	01
50WW01-051216	L16050763-09	1LM.LM35070	05/23/16 18:42	01
50WW09-051216	L16050763-10	1LM.LM35071	05/23/16 19:01	01
50WW10-051216	L16050763-11	1LM.LM35072	05/23/16 19:20	01
50WW10FD-051216	L16050763-12	1LM.LM35073	05/23/16 19:39	01
50WW15-051216	L16050763-13	1LM.LM35074	05/23/16 19:58	01
50WW27-05126	L16050763-14	1LM.LM35075	05/23/16 20:17	01
50WW27MS-05126	L16050763-15	1LM.LM35076	05/23/16 20:36	01
50WW27MSD-05126	L16050763-16	1LM.LM35077	05/23/16 20:55	01
50WW26-051216	L16050763-19	1LM.LM35078	05/23/16 21:14	01
QCMRL	WG569894-12	1LM.LM35080	05/23/16 21:51	01
50WW21-051216	L16050763-17	1LM.LM35082	05/23/16 22:29	01
50WW21FD-051216	L16050763-18	1LM.LM35083	05/23/16 22:48	01
QCMRL	WG569894-13	1LM.LM35085	05/23/16 23:26	01

Report Name: BLANK_SUMMARY
PDF File ID: 4777040
Report generated 05/24/2016 11:58

Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L16050763 Prep Date: 05/23/16 13:00 Sample ID: WG569894-02
Instrument ID: LCMS1 Run Date: 05/23/16 14:36 Prep Method: 6850
File ID: 1LM.LM35057 Analyst: JWR Method: 6850
Workgroup (AAB#): WG569894 Matrix: Water Units: ug/L
Contract #: Cal ID: LCMS1-03-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Perchlorate	0.100	0.400	0.100	1	U

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
PDF ID: 4777041
24-MAY-2016 11:58

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050763 **Run Date:** 05/23/2016 **Sample ID:** WG569894-03
Instrument ID: LCMS1 **Run Time:** 14:55 **Prep Method:** 6850
File ID: 1LM.LM35058 **Analyst:** JWR **Method:** 6850
Workgroup (AAB#): WG569894 **Matrix:** Water **Units:** ug/L
QC Key: DOD4 **Lot#:** STD75512 **Cal ID:** LCMS1-03-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Perchlorate	0.200	0.202	101	80 - 120	

LCS - Modified 03/06/2008
PDF File ID: 4777042
Report generated: 05/24/2016 11:58

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L16050763 Cal ID:LCMS1- 03-MAY-16 Worknum:WG569894

Instrument ID:LCMS1 Contract #: Prep Method:6850

Parent ID:L16050763-01 File ID:1LM.LM35059 Dil:1 Method:6850

Sample ID:L16050763-02 MS File ID:1LM.LM35060 Dil:1 Matrix:Water

Sample ID:L16050763-03 MSD File ID:1LM.LM35061 Dil:1 Units:ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Perchlorate	1.08	0.200	1.29	105	0.200	1.28	100	0.778	80 - 120	15	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 4777043

Report generated 05/24/2016 11:58

Microbac Laboratories Inc.

MS/MSD REPORT

Loginnum:L16050763 Cal ID:LCMS1- 03-MAY-16 Worknum:WG569894

Instrument ID:LCMS1 Contract #: Prep Method:6850

Parent ID:L16050763-14 File ID:1LM.LM35075 Dil:1 Method:6850

Sample ID:L16050763-15 MS File ID:1LM.LM35076 Dil:1 Matrix:Water

Sample ID:L16050763-16 MSD File ID:1LM.LM35077 Dil:1 Units:ug/L

Analyte	Parent	MS Spiked	MS Found	MS %Rec	MSD Spiked	MSD Found	MSD %Rec	%RPD	%Rec Limits	RPD Limit	Q
Perchlorate	U	0.200	0.195	97.5	0.200	0.195	97.5	0	80 - 120	15	

* FAILS %REC LIMIT

FAILS RPD LIMIT

MS_MSD - Modified 03/06/2008

PDF File ID: 4777043

Report generated 05/24/2016 11:58

Microbac Laboratories Inc.
INITIAL CALIBRATION SUMMARY

Login Number: L16050763
Analytical Method: 6850
ICAL Workgroup: WG567320

Instrument ID: LCMS1
Initial Calibration Date: 03-MAY-16 17:18
Column ID: F

Analyte		AVG RF	% RSD	LINEAR (R)	QUAD (R^2)
Perchlorate		1.699	4.81	1.00000	

R = Correlation coefficient; 0.995 minimum
R^2 = Coefficient of determination; 0.99 minimum

INT_CAL - Modified 03/06/2008
PDF File ID: 4777266
Report generated 05/24/2016 11:58

Login Number: L16050763
Analytical Method: 6850
Instrument ID: LCMS1
Initial Calibration Date: 03-MAY-16 17:18
Column ID: F

Analyte	WG567320-02			WG567320-03			WG567320-04		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Perchlorate	0.100	17900.0000	1.792	0.200	34100.0000	1.718	0.500	82200.0000	1.637

INT_CAL - Modified 03/06/2008
PDF File ID: 4777266
Report generated 05/24/2016 11:58

Login Number: L16050763
Analytical Method: 6850
Instrument ID: LCMS1
Initial Calibration Date: 03-MAY-16 17:18
Column ID: F

Analyte	WG567320-05			WG567320-06			WG567320-07		
	CONC	RESP	RF	CONC	RESP	RF	CONC	RESP	RF
Perchlorate	1.00	168000.000	1.697	2.00	330000.000	1.672	5.00	810000.000	1.695

INT_CAL - Modified 03/06/2008
PDF File ID: 4777266
Report generated 05/24/2016 11:58

Login Number: L16050763
Analytical Method: 6850
Instrument ID: LCMS1
Initial Calibration Date: 03-MAY-16 17:18
Column ID: F

Analyte	WG567320-08		
	CONC	RESP	RF
Perchlorate	10.0	1530000.00	1.680

INT_CAL - Modified 03/06/2008
PDF File ID: 4777266
Report generated 05/24/2016 11:58

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L16050763 Run Date: 05/03/2016 Sample ID: WG567320-09
Instrument ID: LCMS1 Run Time: 17:37 Method: 6850
File ID: 1LM.LM34694 Analyst: JWR QC Key: DOD4
ICal Workgroup: WG567320 Cal ID: LCMS1 - 03-MAY-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Perchlorate		1.00	0.985	ug/L	1.66	1.50	15	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4777267
Report generated 05/24/2016 11:58

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L16050763	Run Date:	05/23/2016	Sample ID:	WG569899-01
Instrument ID:	LCMS1	Run Time:	13:20	Method:	6850
File ID:	1LM.LM35053	Analyst:	JWR	Units:	ug/L
Workgroup (AAB#):	WG569894	Cal ID:	LCMS1 - 03-MAY-16		
Matrix:	WATER	QAPP:	DOD4		

Analytes	MDL	RDL	Concentration	Qualifier
Perchlorate	0.100	0.400	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 4777048
Report generated 05/24/2016 11:58

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L16050763 Run Date: 05/23/2016 Sample ID: WG569899-04
Instrument ID: LCMS1 Run Time: 18:04 Method: 6850
File ID: 1LM.LM35068 Analyst: JWR Units: ug/L
Workgroup (AAB#): WG569894 Cal ID: LCMS1 - 03-MAY-16
Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Perchlorate	0.100	0.400	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 4777048
Report generated 05/24/2016 11:58

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L16050763 Run Date: 05/23/2016 Sample ID: WG569899-06
Instrument ID: LCMS1 Run Time: 22:10 Method: 6850
File ID: 1LM.LM35081 Analyst: JWR Units: ug/L
Workgroup (AAB#): WG569894 Cal ID: LCMS1 - 03-MAY-16
Matrix: WATER QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Perchlorate	0.100	0.400	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 4777048
Report generated 05/24/2016 11:58

Microbac Laboratories Inc.
CONTINUING CALIBRATION BLANK (CCB)

Login Number: L16050763 | Run Date: 05/23/2016 | Sample ID: WG569899-08
Instrument ID: LCMS1 | Run Time: 23:45 | Method: 6850
File ID: 1LM.LM35086 | Analyst: JWR | Units: ug/L
Workgroup (AAB#): WG569894 | Cal ID: LCMS1 - 03-MAY-16
Matrix: WATER | QAPP: DOD4

Analytes	MDL	RDL	Concentration	Qualifier
Perchlorate	0.100	0.400	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 4777048
Report generated 05/24/2016 11:58

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L16050763 Run Date: 05/23/2016 Sample ID: WG569899-02
Instrument ID: LCMS1 Run Time: 13:39 Method: 6850
File ID: 1LM.LM35054 Analyst: JWR QC Key: DOD4
Workgroup (AAB#): WG569894 Cal ID: LCMS1 - 03-MAY-16
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Perchlorate		1.00	1.01	ug/L	1.70	1.00	15	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 4777045
Report generated 05/24/2016 11:58

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L16050763 Run Date: 05/23/2016 Sample ID: WG569899-03

Instrument ID: LCMS1 Run Time: 17:26 Method: 6850

File ID: 1LM.LM35066 Analyst: JWR QC Key: DOD4

Workgroup (AAB#): WG569894 Cal ID: LCMS1 - 03-MAY-16

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Perchlorate		1.00	1.02	ug/L	1.73	2.00	15	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 4777045

Report generated 05/24/2016 11:58

Login Number: L16050763 Run Date: 05/23/2016 Sample ID: WG569899-05
Instrument ID: LCMS1 Run Time: 21:32 Method: 6850
File ID: 1LM.LM35079 Analyst: JWR QC Key: DOD4
Workgroup (AAB#): WG569894 Cal ID: LCMS1 - 03-MAY-16
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Perchlorate		1.00	1.02	ug/L	1.73	2.00	15	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 4777045
Report generated 05/24/2016 11:58

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L16050763 Run Date: 05/23/2016 Sample ID: WG569899-07

Instrument ID: LCMS1 Run Time: 23:07 Method: 6850

File ID: 1LM.LM35084 Analyst: JWR QC Key: DOD4

Workgroup (AAB#): WG569894 Cal ID: LCMS1 - 03-MAY-16

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Perchlorate		1.00	1.01	ug/L	1.71	1.00	15	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 4777045

Report generated 05/24/2016 11:58

Login Number: L16050763 Run Date: 05/23/2016 Sample ID: WG569894-10
Instrument ID: LCMS1 Run Time: 13:58 Prep Method: 6850
File ID: 1LM.LM35055 Analyst: JWR Method: 6850
Workgroup (AAB#): WG569894 Matrix: Water Units: ug/L
Contract #: Cal ID: LCMS1-03-MAY-16

Analytes	Expected	Found	% Rec	Limits	Q
Perchlorate	0.200	0.207	104	70 - 130	

QCMRL - Modified 03/06/2007
PDF File ID: 4777044
Report generated 05/24/2016 11:58

Login Number: L16050763 Run Date: 05/23/2016 Sample ID: WG569894-11
Instrument ID: LCMS1 Run Time: 17:45 Prep Method: 6850
File ID: 1LM.LM35067 Analyst: JWR Method: 6850
Workgroup (AAB#): WG569894 Matrix: Water Units: ug/L
Contract #: Cal ID: LCMS1-03-MAY-16

Analytes	Expected	Found	% Rec	Limits	Q
Perchlorate	0.200	0.205	103	70 - 130	

QCMRL - Modified 03/06/2007
PDF File ID: 4777044
Report generated 05/24/2016 11:58

Login Number: L16050763 Run Date: 05/23/2016 Sample ID: WG569894-12
Instrument ID: LCMS1 Run Time: 21:51 Prep Method: 6850
File ID: 1LM.LM35080 Analyst: JWR Method: 6850
Workgroup (AAB#): WG569894 Matrix: Water Units: ug/L
Contract #: Cal ID: LCMS1-03-MAY-16

Analytes	Expected	Found	% Rec	Limits	Q
Perchlorate	0.200	0.209	105	70 - 130	

QCMRL - Modified 03/06/2007
PDF File ID: 4777044
Report generated 05/24/2016 11:58

Login Number: L16050763 Run Date: 05/23/2016 Sample ID: WG569894-13
Instrument ID: LCMS1 Run Time: 23:26 Prep Method: 6850
File ID: 1LM.LM35085 Analyst: JWR Method: 6850
Workgroup (AAB#): WG569894 Matrix: Water Units: ug/L
Contract #: Cal ID: LCMS1-03-MAY-16

Analytes	Expected	Found	% Rec	Limits	Q
Perchlorate	0.200	0.196	98.0	70 - 130	

QCMRL - Modified 03/06/2007
PDF File ID: 4777044
Report generated 05/24/2016 11:58

Microbac Laboratories Inc.
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO AVERAGE OF ICAL)

Login Number: L16050763
Instrument ID: LCMS1
Workgroup (AAB#): WG569894

ICAL CCV Number: WG567320-05
CAL ID: LCMS1-03-MAY-16
Matrix: WATER

Sample Number	Dilution	Tag	IS-1
WG567320	NA	NA	489000
Upper Limit	NA	NA	733500
Lower Limit	NA	NA	244500
L16050763-01	1.00	01	399000
L16050763-02	1.00	01	398000
L16050763-03	1.00	01	398000
L16050763-04	1.00	01	519000
L16050763-05	1.00	01	419000
L16050763-06	1.00	01	411000
L16050763-07	1.00	01	418000
L16050763-08	1.00	01	558000
L16050763-09	1.00	01	444000
L16050763-10	1.00	01	431000
L16050763-11	1.00	01	376000
L16050763-12	1.00	01	348000
L16050763-13	1.00	01	437000
L16050763-14	1.00	01	443000
L16050763-15	1.00	01	440000
L16050763-16	1.00	01	445000
L16050763-17	1.00	01	440000
L16050763-18	1.00	01	449000
L16050763-19	1.00	01	446000
WG569894-02	1.00	01	474000
WG569894-03	1.00	01	476000

IS-1 - O18LP

Underline = Response outside limits

INTERNAL_STD_AVG_ICAL - Modified 03/10/2010
PDF File ID: 4777051
Report generated 05/24/2016 11:58

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-01
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35059
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 15:14	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	145000	51400	2.82	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-02
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35060
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 15:33	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	173000	59600	2.90	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-03
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35061
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 15:52	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	171000	60500	2.83	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-04
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35062
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 16:10	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	197000	69300	2.84	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-05
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35063
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 16:29	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	10900	3500	3.11	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-06
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35064
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 16:48	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	19100	6180	3.09	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-07
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35065
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 17:07	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	39300	12700	3.09	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-08
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35069
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 18:23	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	19600	7490	2.62	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-09
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35070
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 18:42	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	0.000	0.000	0.000	2.3	3.8	*

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-10
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35071
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 19:01	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	12200	3980	3.07	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-11
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35072
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 19:20	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	1590	653	2.43	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-12
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35073
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 19:39	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	1540	543	2.84	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-13
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35074
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 19:58	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	0.000	1420	0.000	2.3	3.8	*

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-14
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35075
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 20:17	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	0.000	0.000	0.000	2.3	3.8	*

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-15
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35076
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 20:36	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	29400	10000	2.94	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-16
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35077
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 20:55	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	29800	9990	2.98	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-17
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35082
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 22:29	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	59400	21000	2.83	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-18
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35083
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 22:48	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	63700	22000	2.90	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	L16050763-19
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35078
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 21:14	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	4410	1560	2.83	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG567320-02
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM34687
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/03/2016 15:25	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	17900	6950	2.58	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG567320-03
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM34688
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/03/2016 15:43	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	34100	11900	2.87	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG567320-04
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM34689
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/03/2016 16:02	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	82200	29400	2.80	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG567320-05
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM34690
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/03/2016 16:21	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	168000	56600	2.97	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG567320-06
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM34691
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/03/2016 16:40	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	330000	108000	3.06	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG567320-07
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM34692
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/03/2016 16:59	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	810000	269000	3.01	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG567320-08
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM34693
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/03/2016 17:18	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	1530000	512000	2.99	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG567320-09
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM34694
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/03/2016 17:37	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	169000	56300	3.00	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	WG569894-01
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35056
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 14:17	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	30900	11400	2.71	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	WG569894-02
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35057
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 14:36	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	0.000	0.000	0.000	2.3	3.8	*

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	WG569894-03
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35058
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 14:55	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	33000	11100	2.97	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	WG569894-10
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35055
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 13:58	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	33600	11300	2.97	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	WG569894-11
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35067
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 17:45	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	38700	14300	2.71	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	WG569894-12
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35080
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 21:51	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	40800	14100	2.89	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**	6850	**Samplenum:**	WG569894-13
Instrument:	LCMS1	**Prep Date:**	05/23/2016 13:00	**File ID:**	1LM.LM35085
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 23:26	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	39600	13700	2.89	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG569899-01
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM35053
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 13:20	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	0.000	907	0.000	2.3	3.8	*

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG569899-02
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM35054
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 13:39	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	160000	55900	2.86	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG569899-03
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM35066
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 17:26	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	182000	60100	3.03	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG569899-04
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM35068
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 18:04	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	0.000	0.000	0.000	2.3	3.8	*

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG569899-05
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM35079
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 21:32	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	194000	65000	2.98	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG569899-06
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM35081
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 22:10	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	0.000	0.000	0.000	2.3	3.8	*

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG569899-07
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM35084
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 23:07	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	189000	61000	3.10	2.3	3.8	

Perchlorate Ion Ratios

Microbac Laboratories Inc.

Login #:	L16050763	**Prep Method:**		**Samplenum:**	WG569899-08
Instrument:	LCMS1	**Prep Date:**		**File ID:**	1LM.LM35086
Analyst:	JWR	**Anal Method:**	6850	**Matrix:**	Water
Worknum:	WG569894	**Analysis Date:**	05/23/2016 23:45	**Units:**	ug/L

Analyte	Res #1	Res #2	Ratio	Lower	Upper	Q
PERCHLORATE	0.000	358	0.000	2.3	3.8	*

2.2.1.3 Sample Data

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Data File	LM35059.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 3:14:09 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

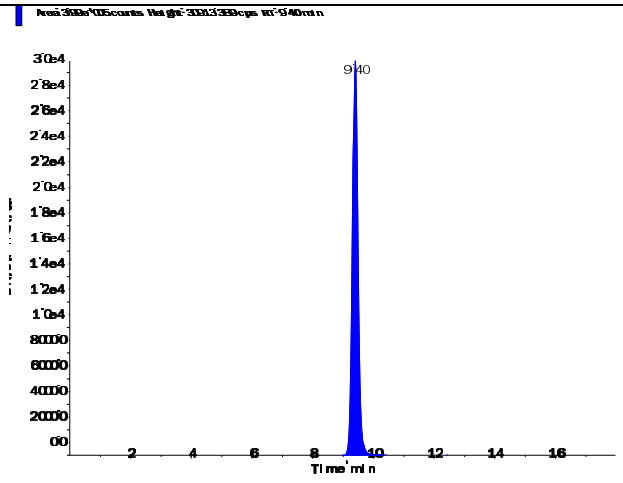
Sample Name	L16050763-01 RS	**Injection Vial**	7.00
Data File	LM35059.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 3:14:09 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-04	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

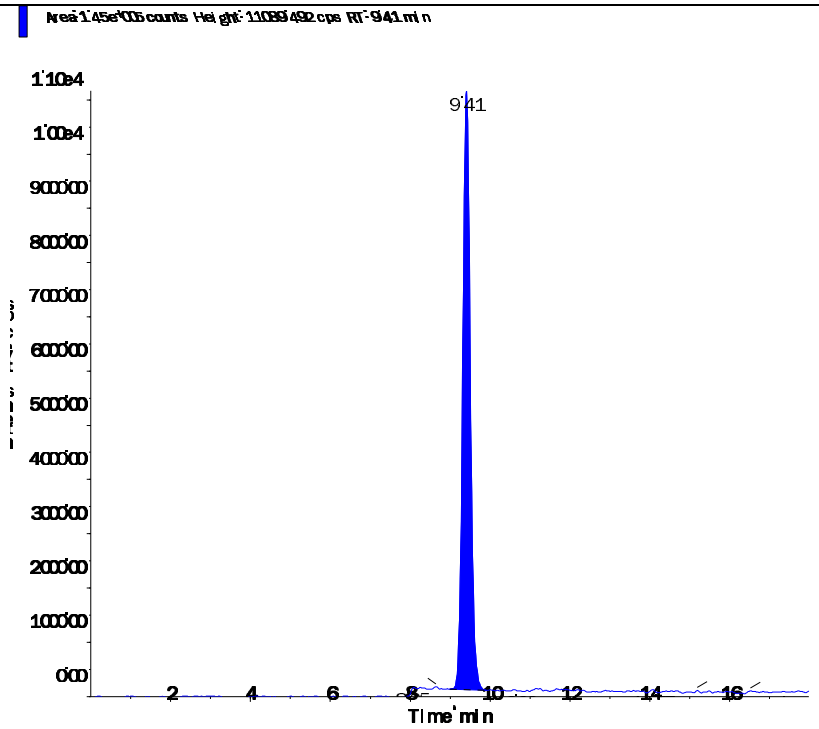
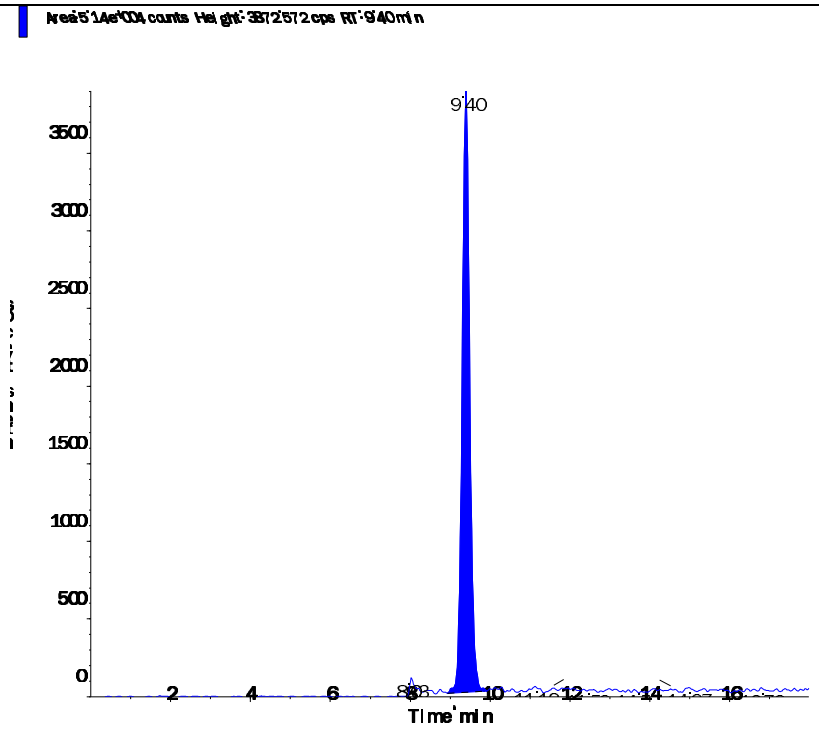
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	3.990e+05	9.40	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.450e+05	9.41	N/A	1.08
Perchlorate conf	5.140e+04	9.40	N/A	1.13

O18LP (Internal Standard)

RT (Exp. RT): 9.40(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 9.41 (9.84) min Calculated conc: 1.08 ng/ml Area Ratio: 0.364 Sample Type: (Unknown)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 9.40 (9.84) min Calculated conc: 1.13 ng/ml Area Ratio: 0.129 Sample Type: (Unknown)	

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Data File	LM35060.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 3:33:06 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

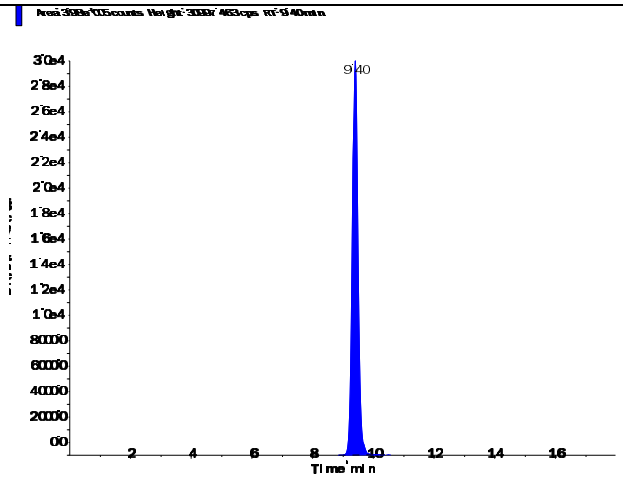
Sample Name	L16050763-02 MS	**Injection Vial**	8.00
Data File	LM35060.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 3:33:06 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-05	**Dilution Factor**	1.00
Sample Comment	1,1 STD75512	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	3.980e+05	9.40	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.730e+05	9.41	N/A	1.29
Perchlorate conf	5.960e+04	9.39	N/A	1.32

O18LP (Internal Standard)

RT (Exp. RT): 9.40(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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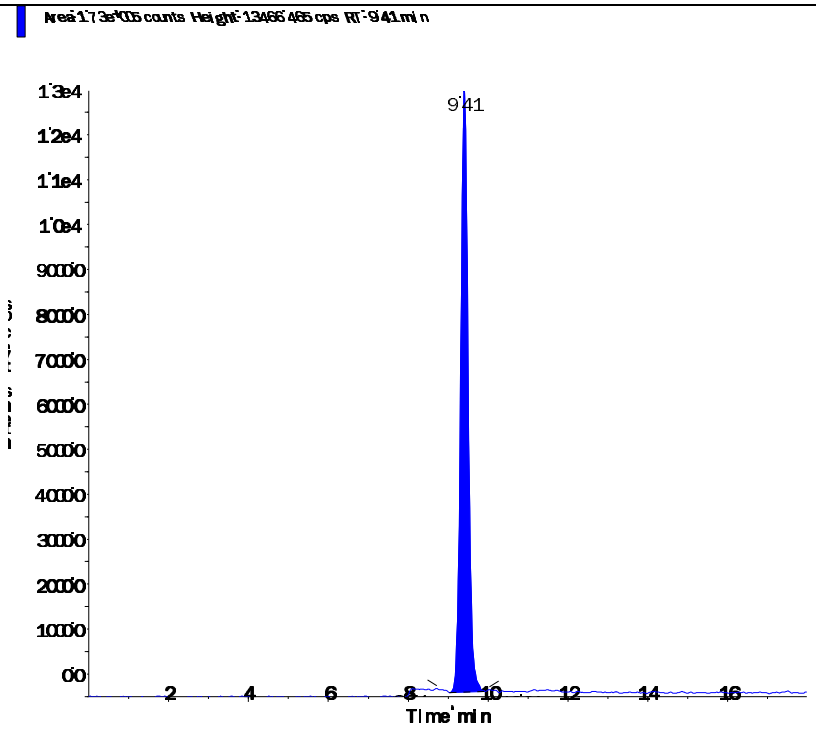
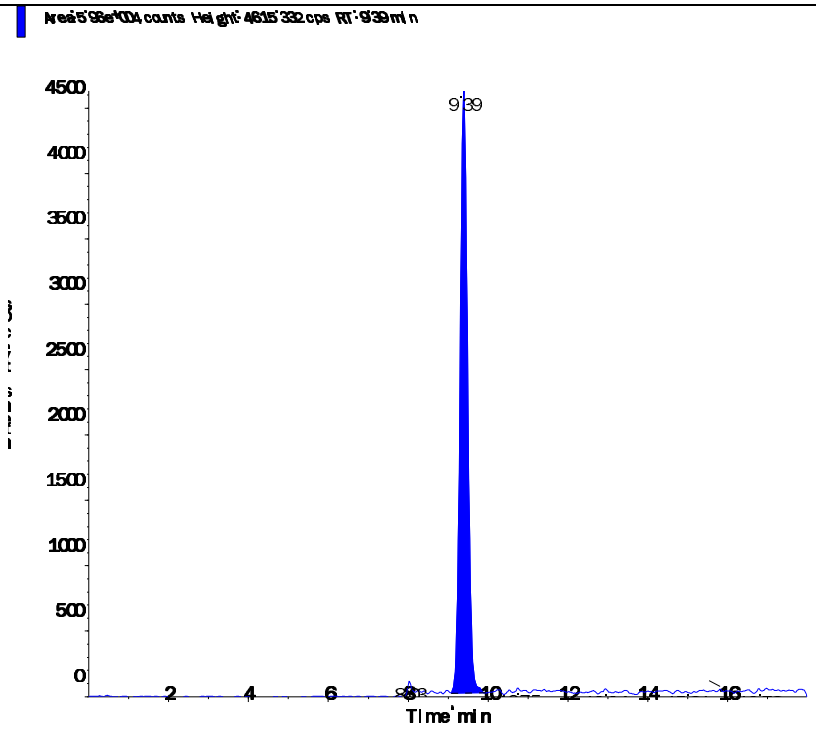
Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.41 (9.84) min 1.29 ng/ml 0.434 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.39 (9.84) min 1.32 ng/ml 0.15 (Unknown)



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Data File	LM35061.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 3:52:02 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

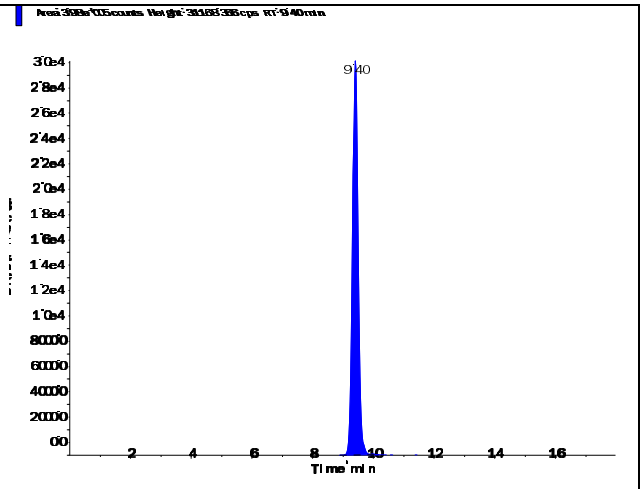
Sample Name	L16050763-03 MSD	**Injection Vial**	9.00
Data File	LM35061.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 3:52:02 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-06	**Dilution Factor**	1.00
Sample Comment	1,1 STD75512	**Weight to Volume**	0.00

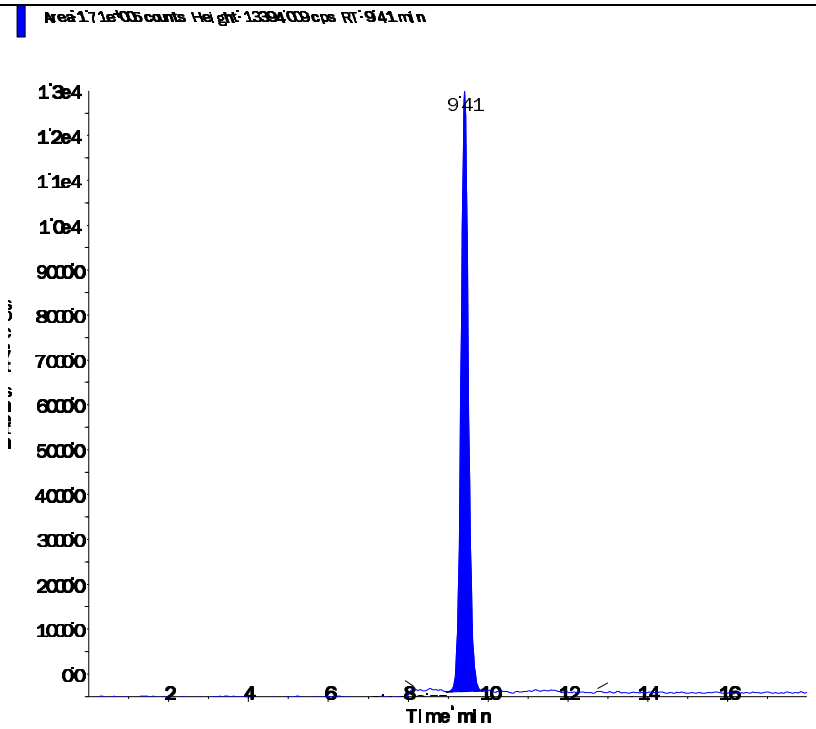
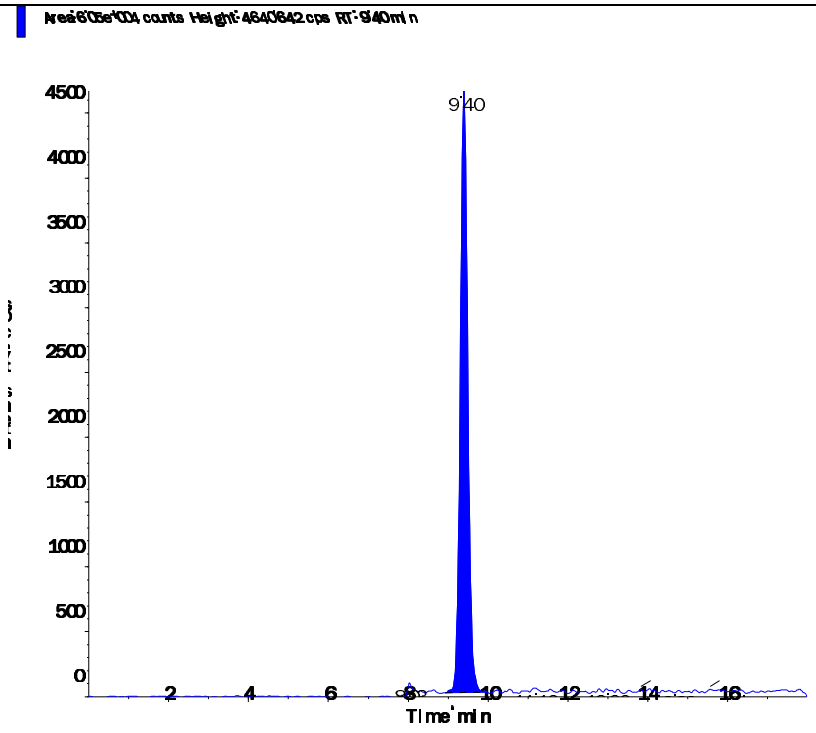
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	3.980e+05	9.40	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.710e+05	9.41	N/A	1.28
Perchlorate conf	6.050e+04	9.40	N/A	1.34

O18LP (Internal Standard)

RT (Exp. RT): 9.40(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 9.41 (9.84) min Calculated conc: 1.28 ng/ml Area Ratio: 0.43 Sample Type: (Unknown)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 9.40 (9.84) min Calculated conc: 1.34 ng/ml Area Ratio: 0.152 Sample Type: (Unknown)	

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Data File	LM35062.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 4:10:59 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

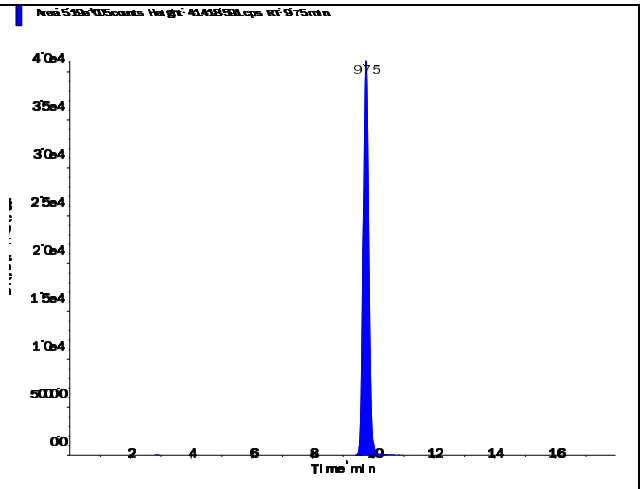
Sample Name	L16050763-04	**Injection Vial**	10.00
Data File	LM35062.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 4:10:59 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-04	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

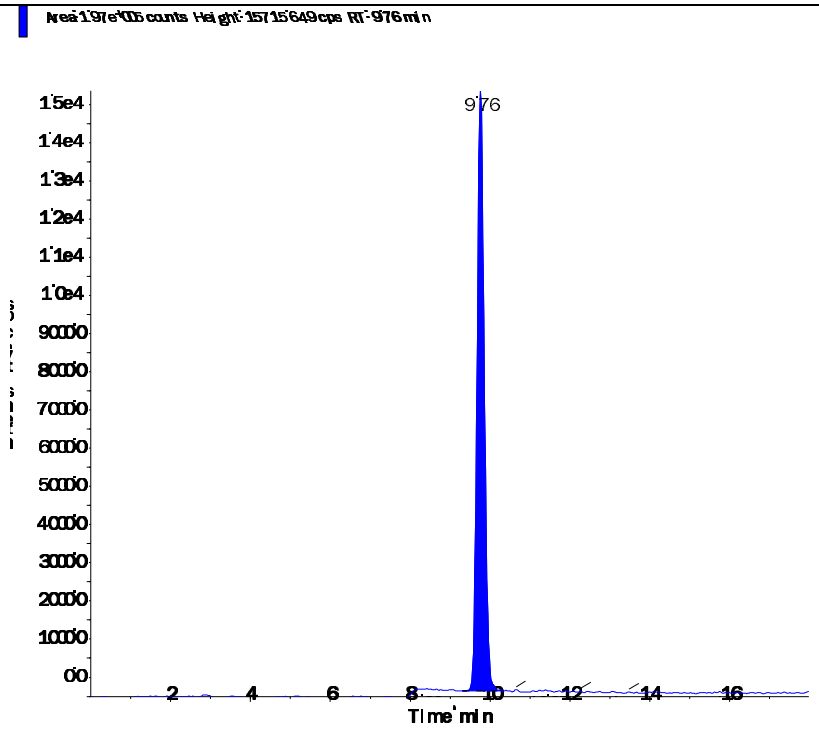
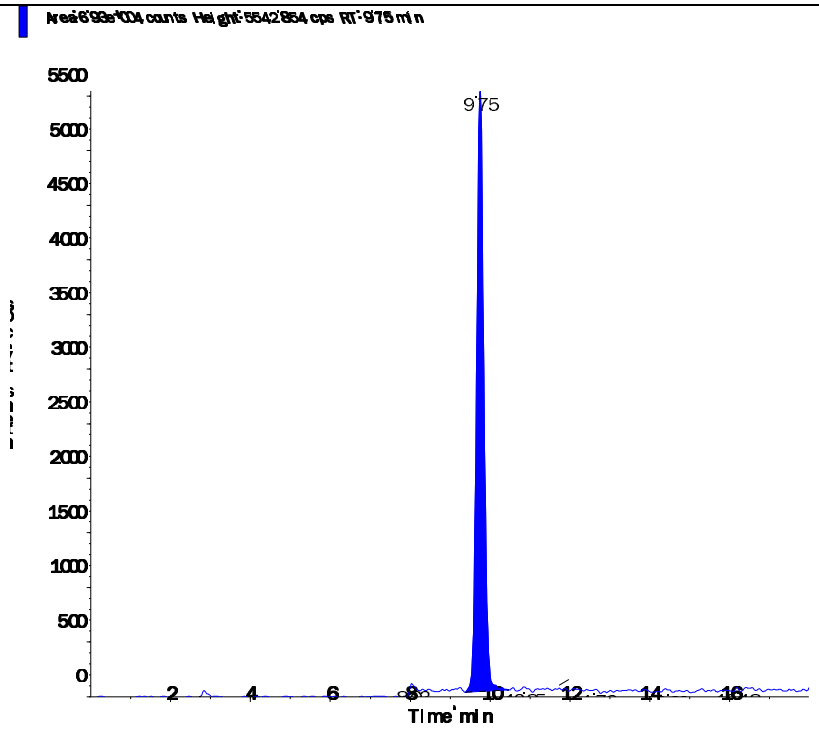
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.190e+05	9.75	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.970e+05	9.76	N/A	1.12
Perchlorate conf	6.930e+04	9.75	N/A	1.18

O18LP (Internal Standard)

RT (Exp. RT): 9.75(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 9.76 (9.84) min Calculated conc: 1.12 ng/ml Area Ratio: 0.379 Sample Type: (Unknown)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 9.75 (9.84) min Calculated conc: 1.18 ng/ml Area Ratio: 0.134 Sample Type: (Unknown)	

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Data File	LM35063.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 4:29:57 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

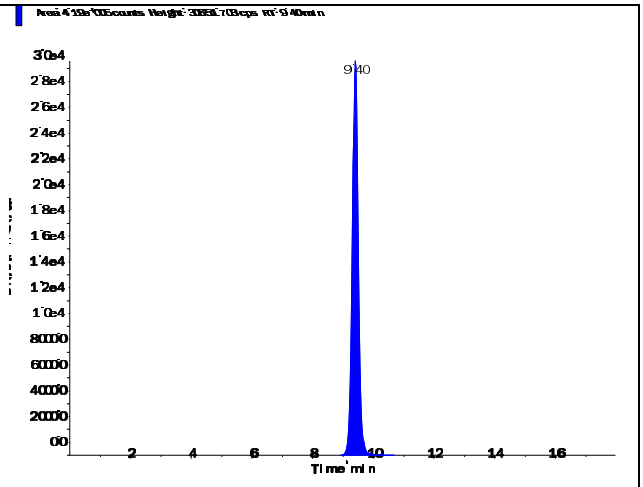
Sample Name	L16050763-05	**Injection Vial**	11.00
Data File	LM35063.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 4:29:57 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-05	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.190e+05	9.40	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.090e+04	9.43	N/A	0.0736
Perchlorate conf	3.500e+03	9.41	N/A	0.0546

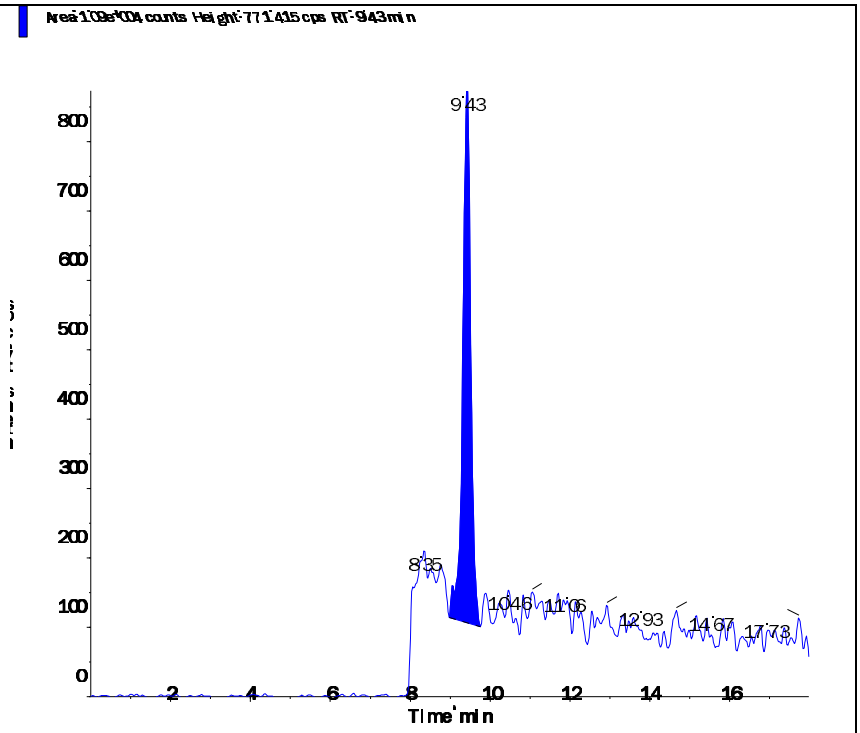
O18LP (Internal Standard)

RT (Exp. RT): 9.40(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)

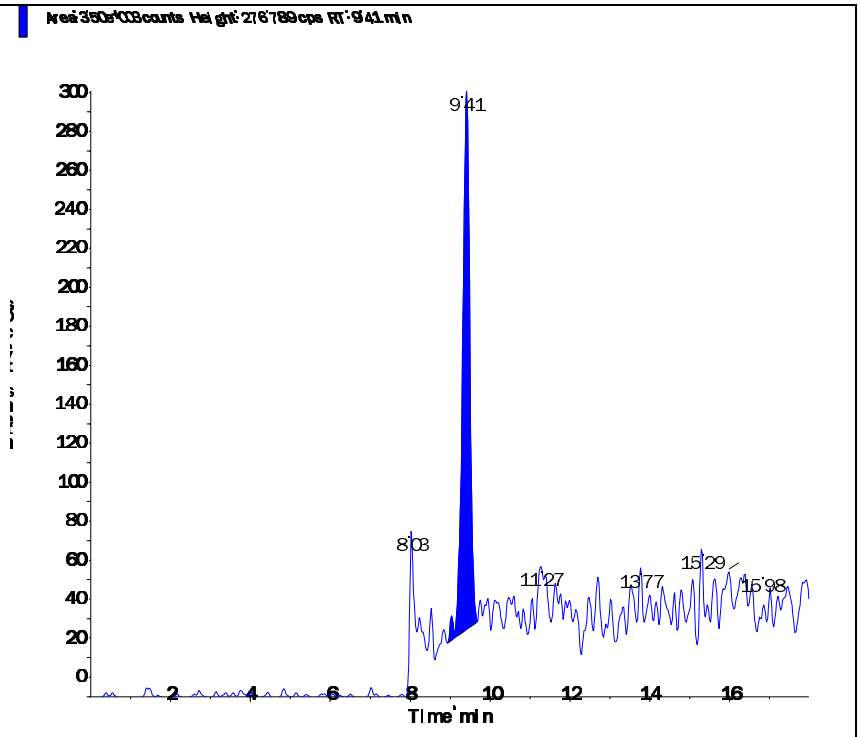


s.dataFile Page 1 of 2

Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.43 (9.84) min 0.0736 ng/ml 0.026 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.41 (9.84) min 0.0546 ng/ml 0.008 (Unknown)



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Data File	LM35064.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 4:48:55 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

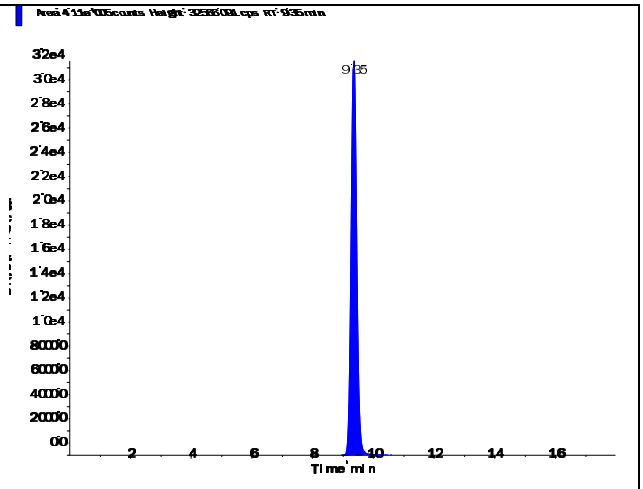
Sample Name	L16050763-06	**Injection Vial**	12.00
Data File	LM35064.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 4:48:55 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-06	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

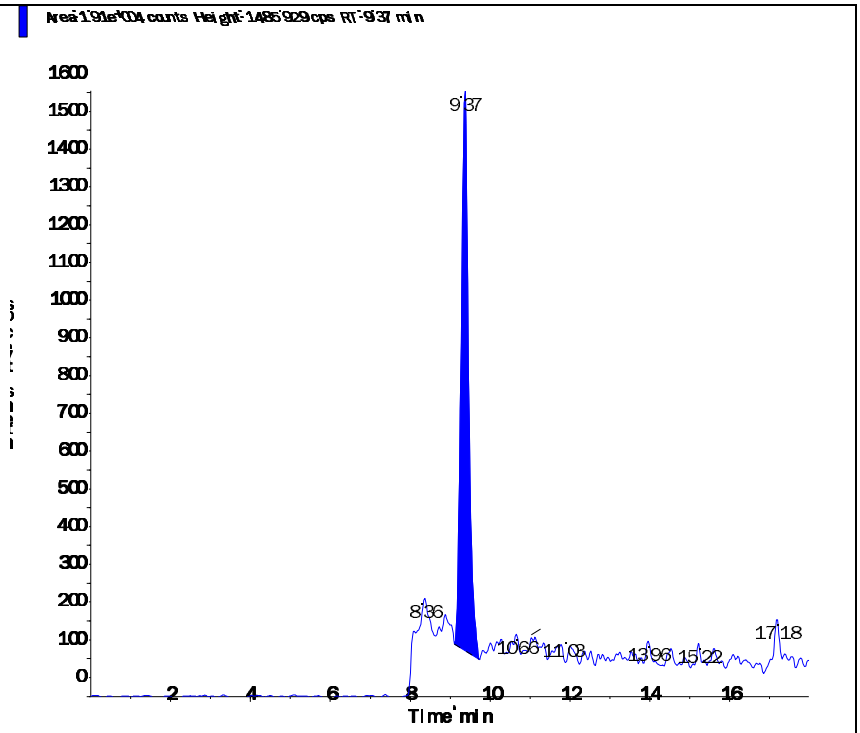
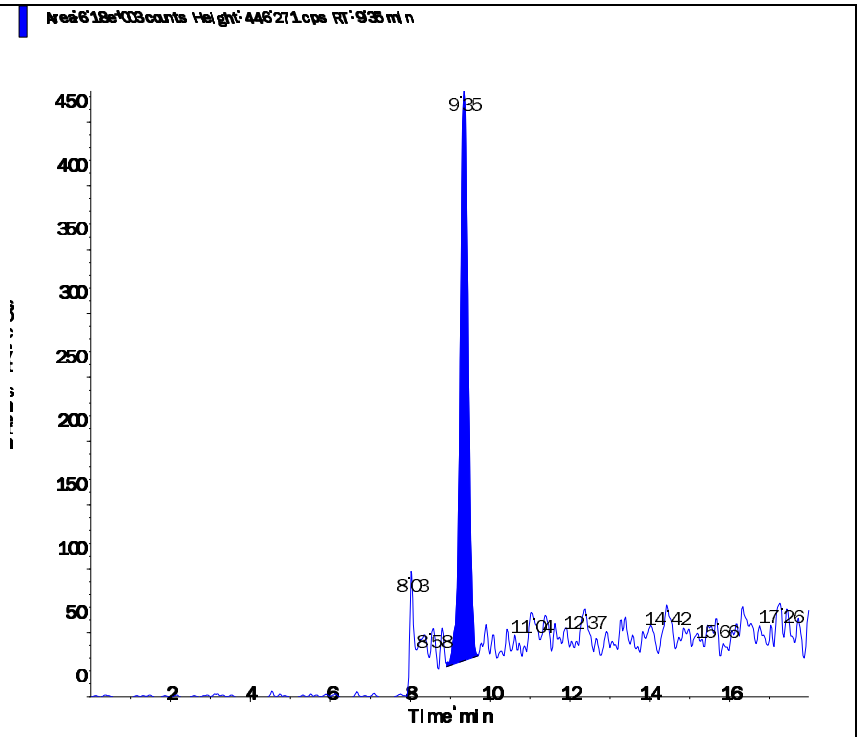
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.110e+05	9.35	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.910e+04	9.37	N/A	0.134
Perchlorate conf	6.180e+03	9.35	N/A	0.114

O18LP (Internal Standard)

RT (Exp. RT): 9.35(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 9.37 (9.84) min Calculated conc: 0.134 ng/ml Area Ratio: 0.046 Sample Type: (Unknown)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 9.35 (9.84) min Calculated conc: 0.114 ng/ml Area Ratio: 0.015 Sample Type: (Unknown)	

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Data File	LM35065.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 5:07:51 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

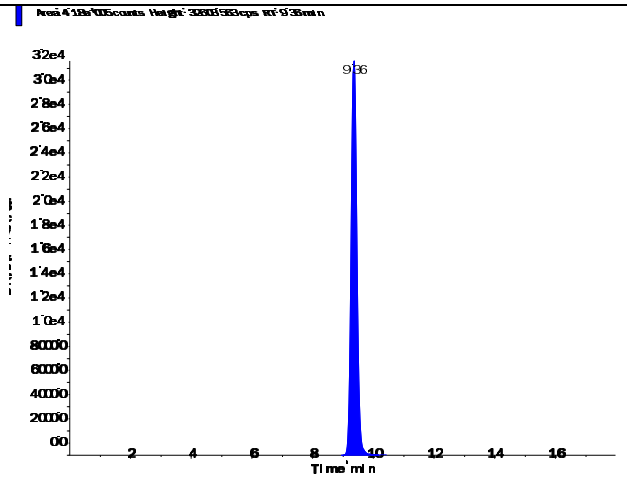
Sample Name	L16050763-07	**Injection Vial**	13.00
Data File	LM35065.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 5:07:51 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-07	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.180e+05	9.36	5.00	-

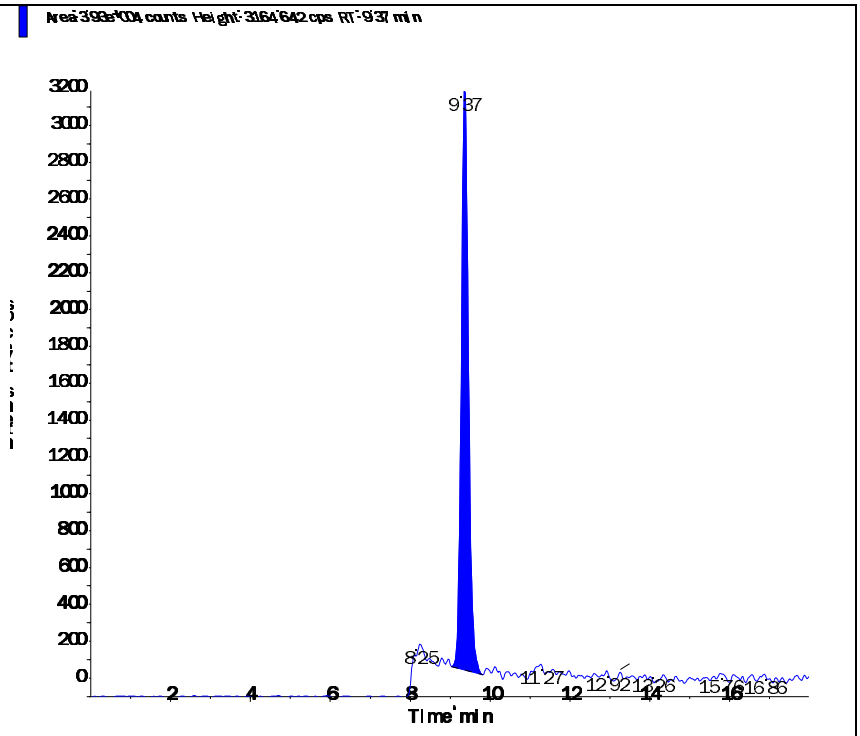
Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	3.930e+04	9.37	N/A	0.276
Perchlorate conf	1.270e+04	9.36	N/A	0.253

O18LP (Internal Standard)

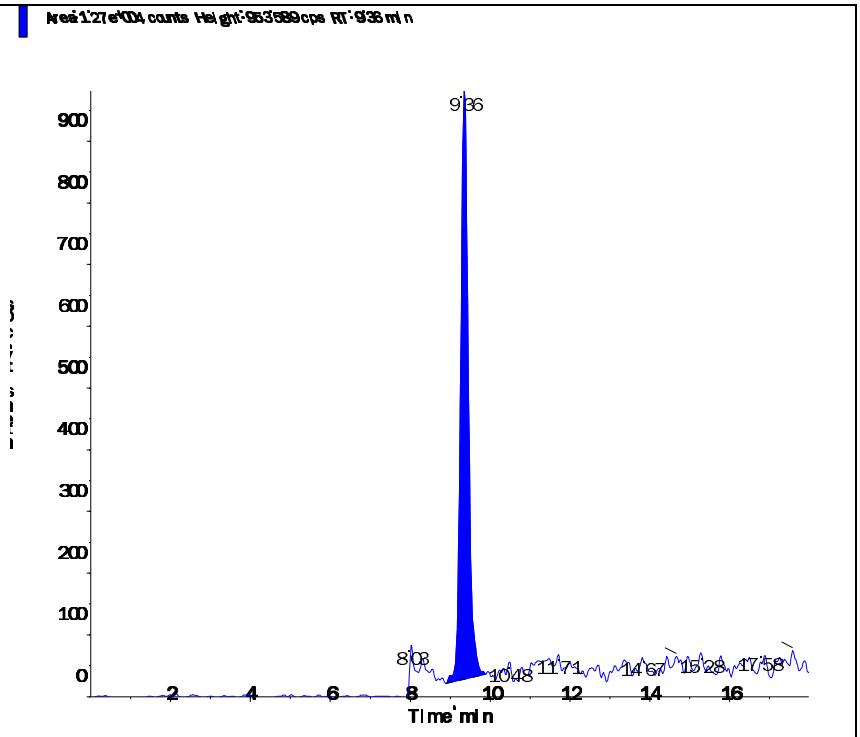
RT (Exp. RT): 9.36(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.37 (9.84) min 0.276 ng/ml 0.094 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.36 (9.84) min 0.253 ng/ml 0.03 (Unknown)



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Data File	LM35069.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 6:23:36 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

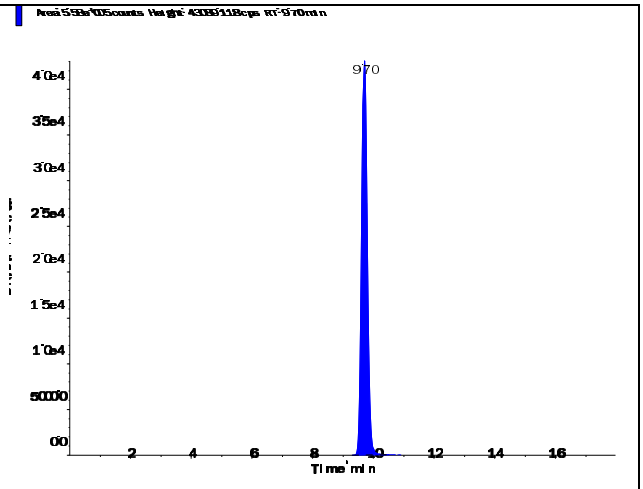
Sample Name	L16050763-08	**Injection Vial**	14.00
Data File	LM35069.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 6:23:36 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-08	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

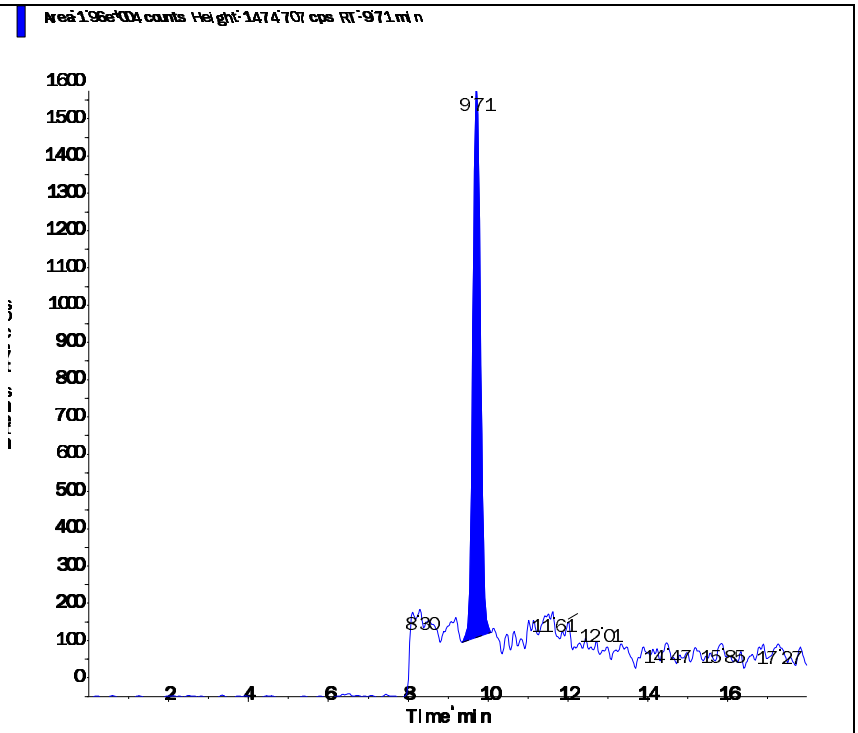
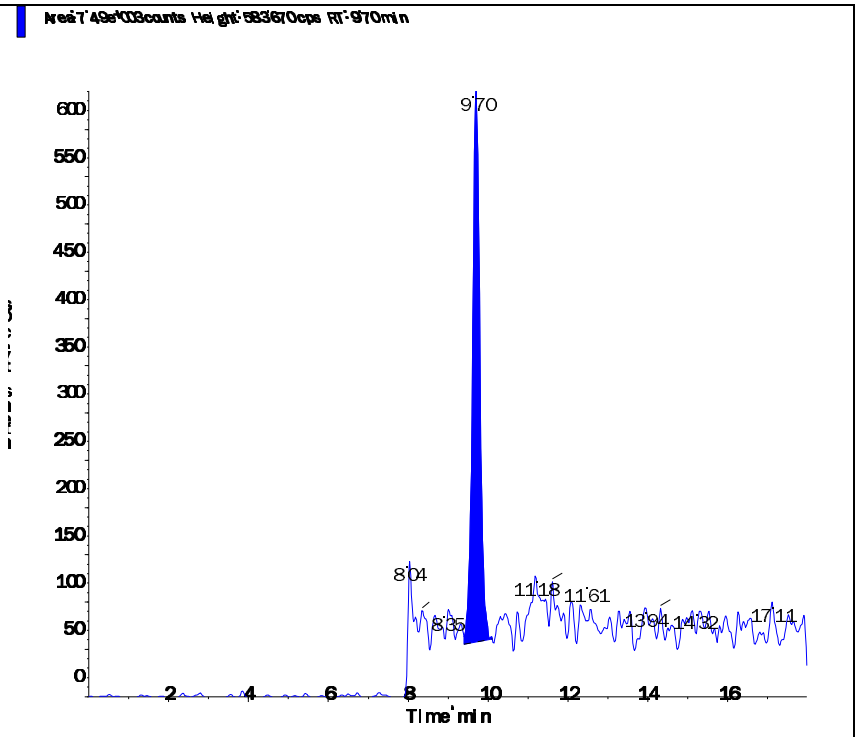
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.580e+05	9.70	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.960e+04	9.71	N/A	0.101
Perchlorate conf	7.490e+03	9.70	N/A	0.0998

O18LP (Internal Standard)

RT (Exp. RT): 9.70(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 9.71 (9.84) min Calculated conc: 0.101 ng/ml Area Ratio: 0.035 Sample Type: (Unknown)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 9.70 (9.84) min Calculated conc: 0.0998 ng/ml Area Ratio: 0.013 Sample Type: (Unknown)	

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Data File	LM35070.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 6:42:33 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

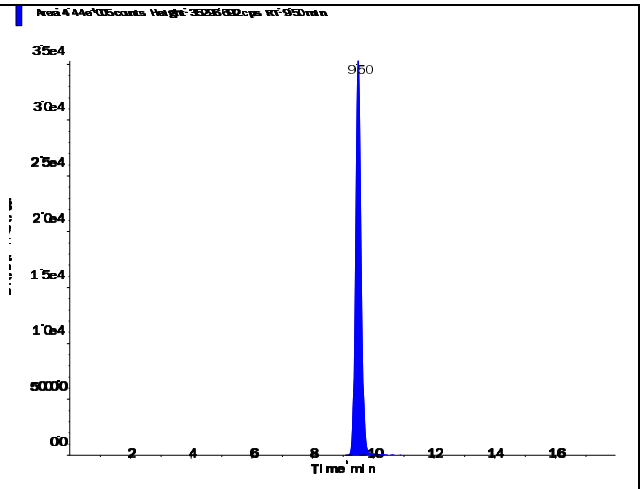
Sample Name	L16050763-09	**Injection Vial**	15.00
Data File	LM35070.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 6:42:33 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-09	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.440e+05	9.50	5.00	-

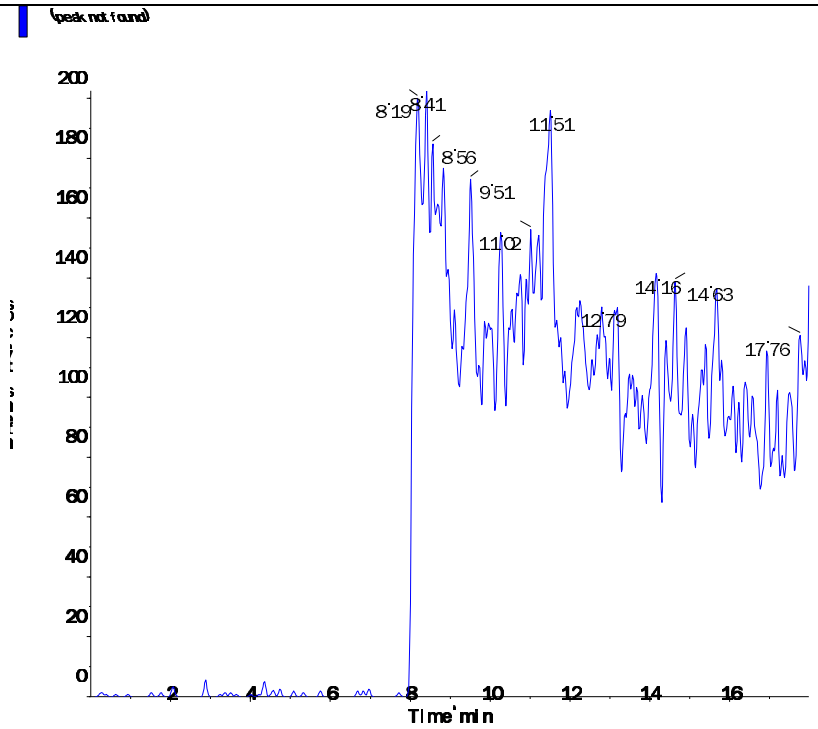
Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	0.000e+00	0.00	N/A	No Peak
Perchlorate conf	0.000e+00	0.00	N/A	No Peak

O18LP (Internal Standard)

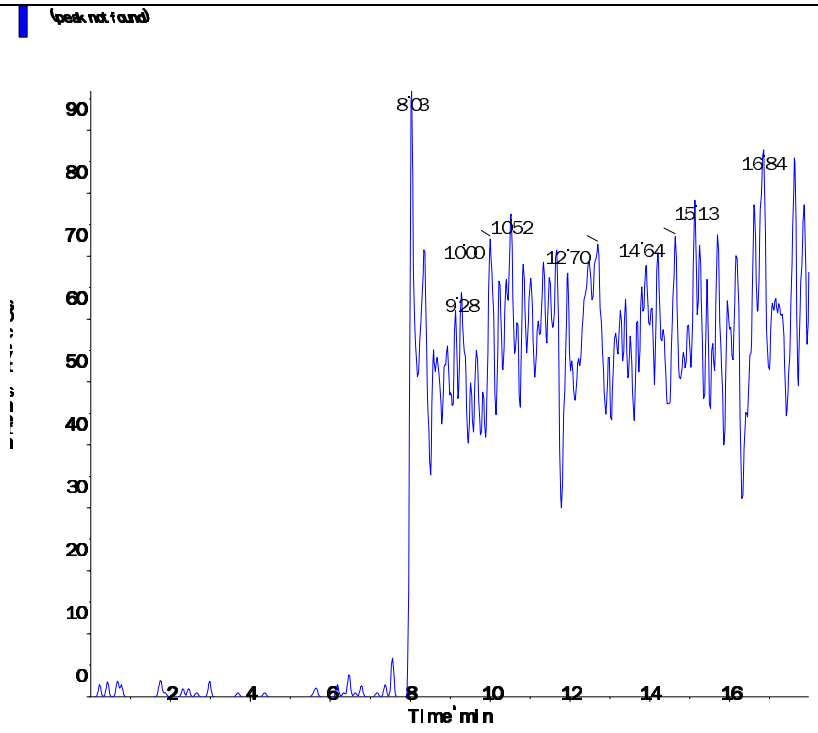
RT (Exp. RT): 9.50(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 0.00 (9.84) min No Peak ng/ml 0.00 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 0.00 (9.84) min No Peak ng/ml 0.00 (Unknown)



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Data File	LM35071.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 7:01:28 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

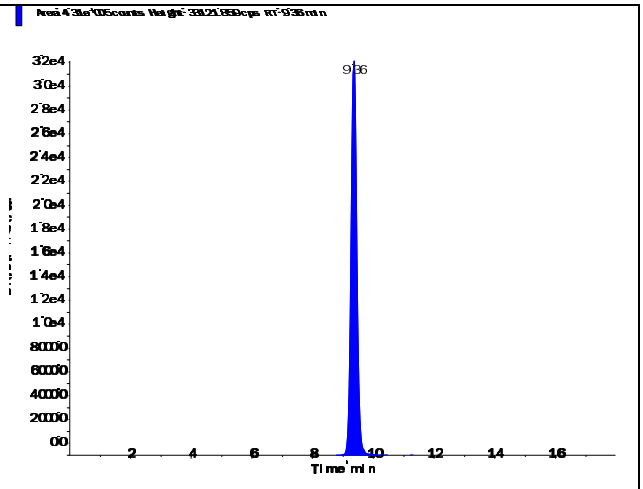
Sample Name	L16050763-10	**Injection Vial**	16.00
Data File	LM35071.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 7:01:28 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-10	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

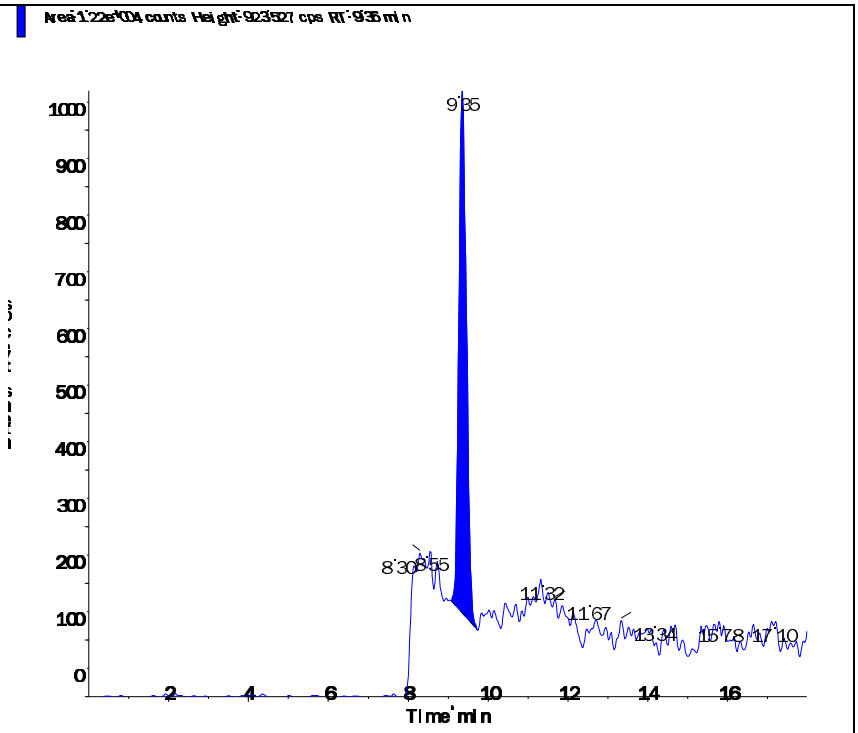
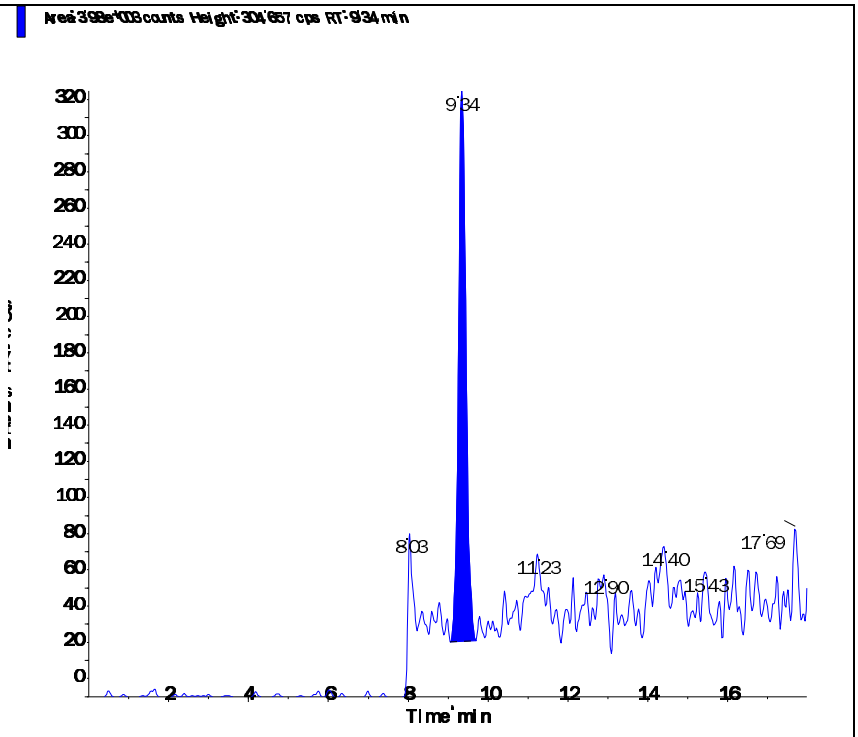
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.310e+05	9.36	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.220e+04	9.35	N/A	0.0804
Perchlorate conf	3.980e+03	9.34	N/A	0.0622

O18LP (Internal Standard)

RT (Exp. RT): 9.36(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 9.35 (9.84) min Calculated conc: 0.0804 ng/ml Area Ratio: 0.028 Sample Type: (Unknown)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 9.34 (9.84) min Calculated conc: 0.0622 ng/ml Area Ratio: 0.009 Sample Type: (Unknown)	

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Data File	LM35072.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 7:20:23 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

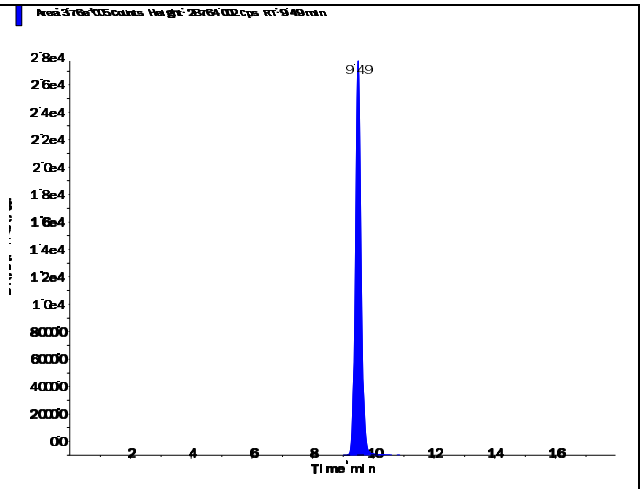
Sample Name	L16050763-11	**Injection Vial**	17.00
Data File	LM35072.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 7:20:23 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-11	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	3.760e+05	9.49	5.00	-

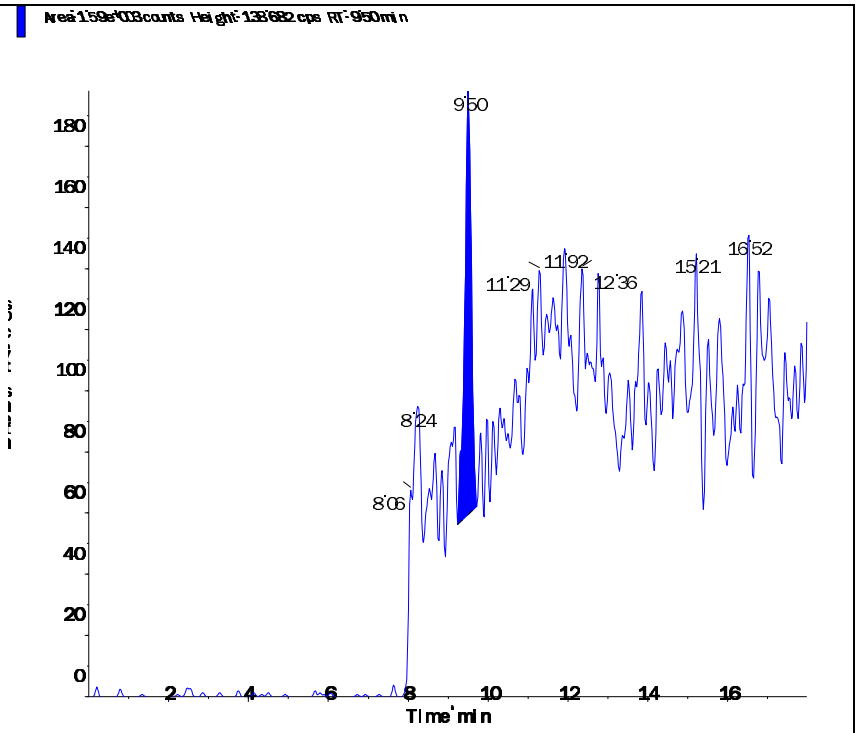
Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.590e+03	9.50	N/A	0.0088
Perchlorate conf	6.530e+02	9.51	N/A	< 0

O18LP (Internal Standard)

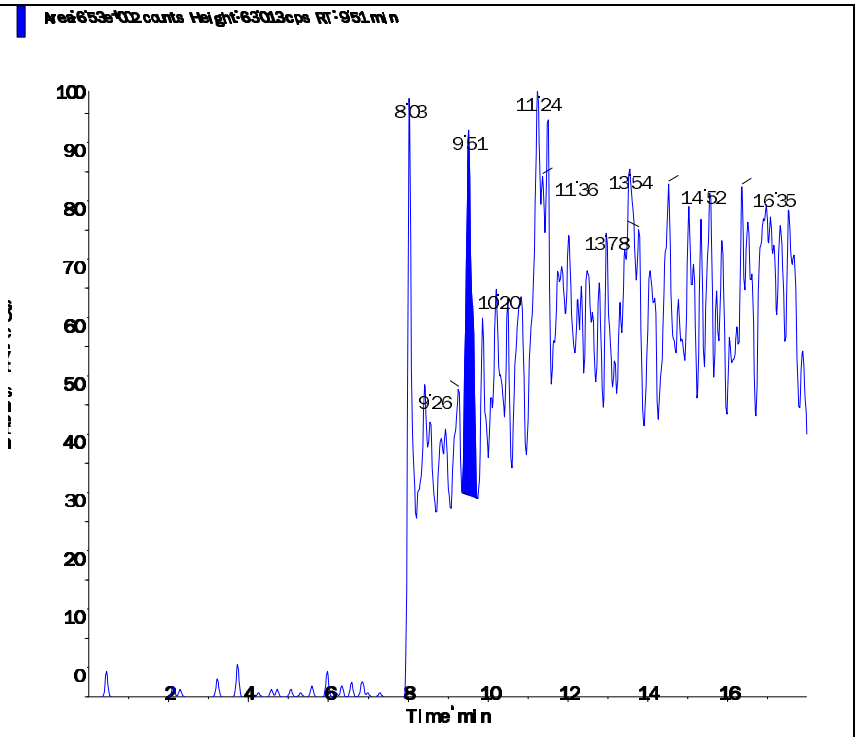
RT (Exp. RT): 9.49(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.50 (9.84) min 0.0088 ng/ml 0.004 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.51 (9.84) min < 0 ng/ml 0.002 (Unknown)



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Data File	LM35073.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 7:39:19 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

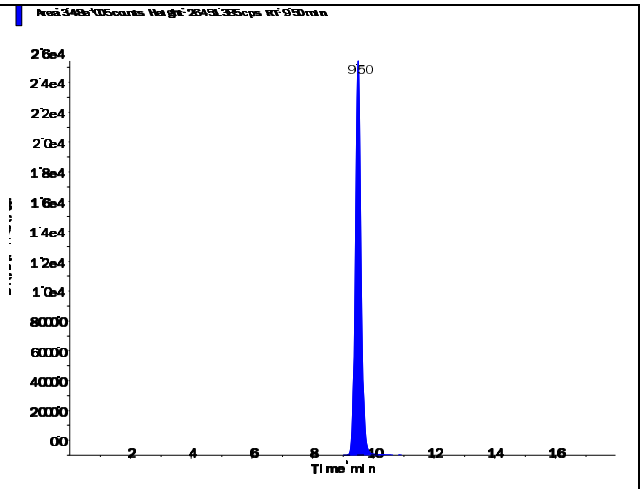
Sample Name	L16050763-12	**Injection Vial**	18.00
Data File	LM35073.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 7:39:19 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-12	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	3.480e+05	9.50	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.540e+03	9.52	N/A	0.0094
Perchlorate conf	5.430e+02	9.49	N/A	< 0

O18LP (Internal Standard)

RT (Exp. RT): 9.50(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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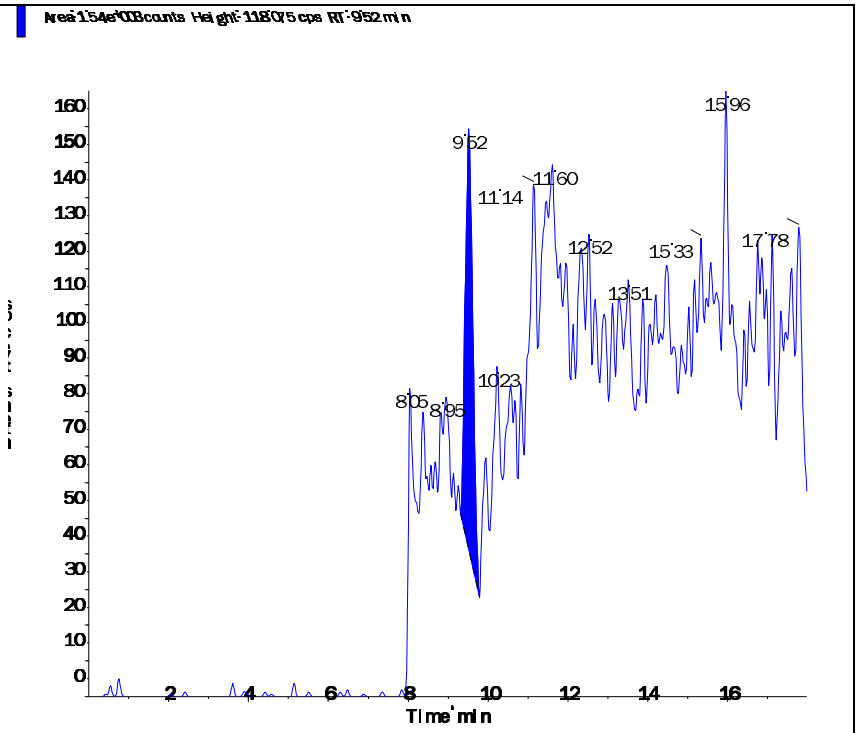
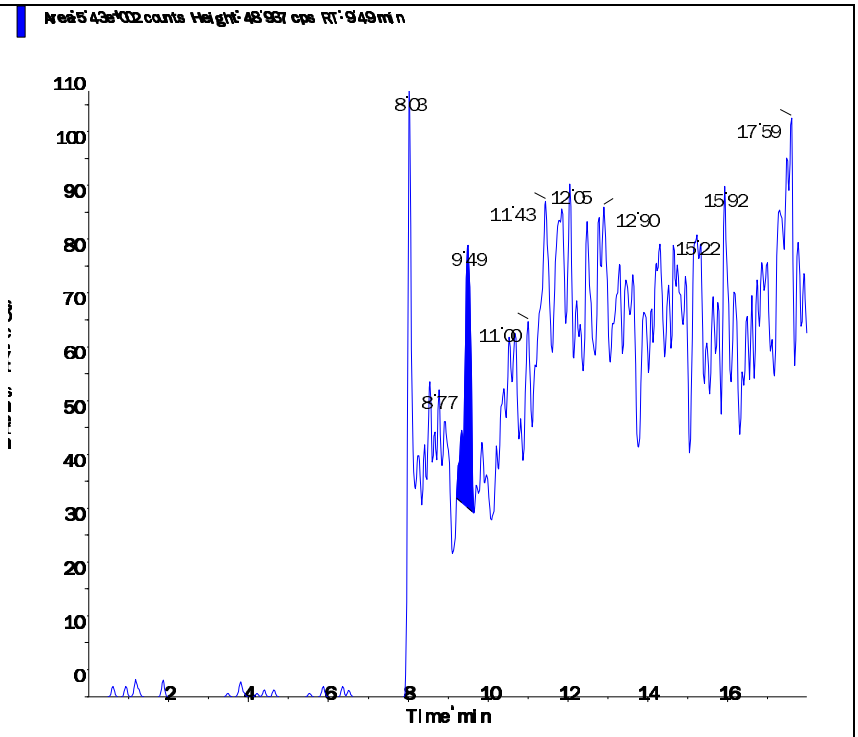
Perchlorate (98.8/83.3 amu)	
RT (Exp. RT):	9.52 (9.84) min
Calculated conc:	0.0094 ng/ml
Area Ratio:	0.004
Sample Type:	(Unknown)



Perchlorate conf (100.8/85.2 amu)	
RT (Exp. RT):	9.49 (9.84) min
Calculated conc:	< 0 ng/ml
Area Ratio:	0.002
Sample Type:	(Unknown)



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Printed: 5/24/2016 10:09 AM

Data File	LM35074.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 7:58:15 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

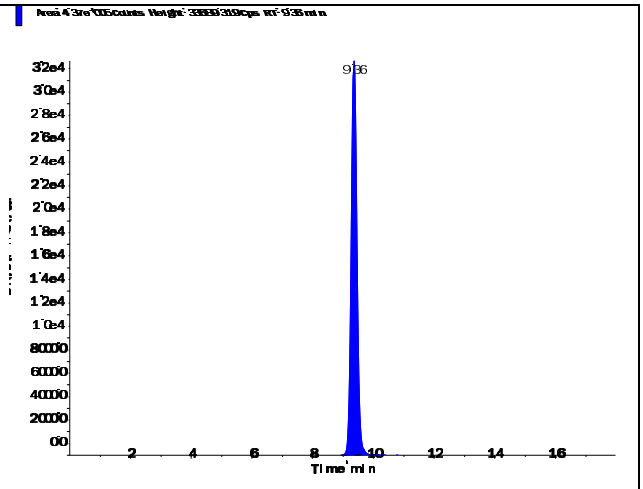
Sample Name	L16050763-13	**Injection Vial**	19.00
Data File	LM35074.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 7:58:15 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-13	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.370e+05	9.36	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	0.000e+00	0.00	N/A	No Peak
Perchlorate conf	1.420e+03	9.35	N/A	0.0086

O18LP (Internal Standard)

RT (Exp. RT): 9.36(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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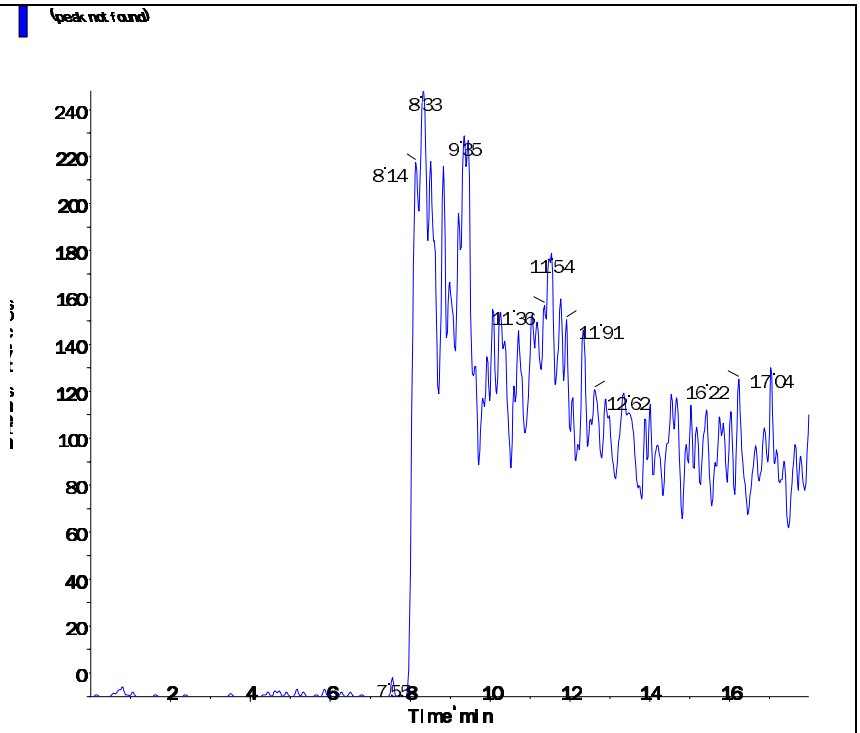
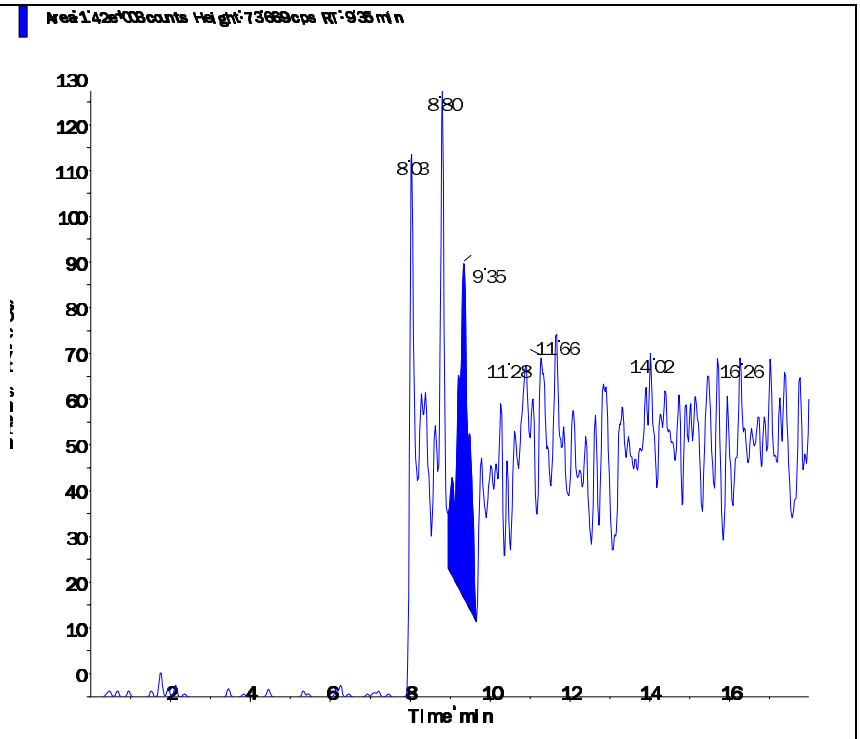
Perchlorate (98.8/83.3 amu)	
RT (Exp. RT): 0.00 (9.84) min	
Calculated conc: No Peak ng/ml	
Area Ratio: 0.00	
Sample Type: (Unknown)	

Perchlorate conf (100.8/85.2 amu)	
RT (Exp. RT): 9.35 (9.84) min	
Calculated conc: 0.0086 ng/ml	
Area Ratio: 0.003	
Sample Type: (Unknown)	

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Data File	LM35075.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 8:17:12 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

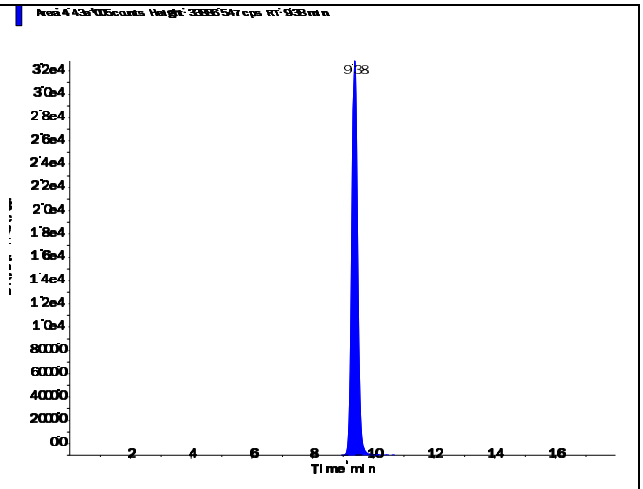
Sample Name	L16050763-14 RS	**Injection Vial**	20.00
Data File	LM35075.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 8:17:12 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-07	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.430e+05	9.38	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	0.000e+00	0.00	N/A	No Peak
Perchlorate conf	0.000e+00	0.00	N/A	No Peak

O18LP (Internal Standard)

RT (Exp. RT): 9.38(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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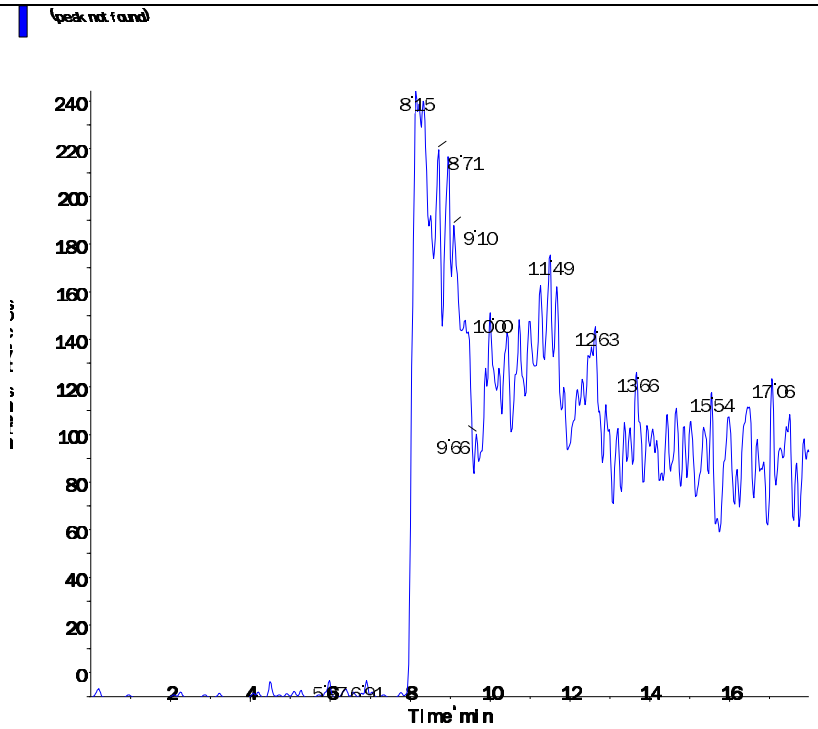
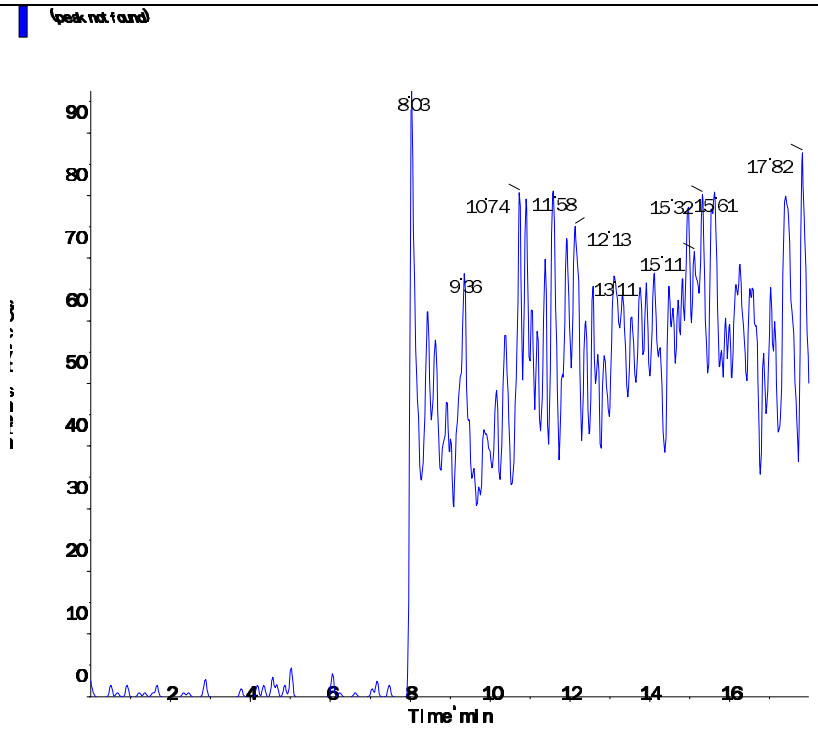
Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 0.00 (9.84) min No Peak ng/ml 0.00 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 0.00 (9.84) min No Peak ng/ml 0.00 (Unknown)



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Data File	LM35076.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 8:36:11 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

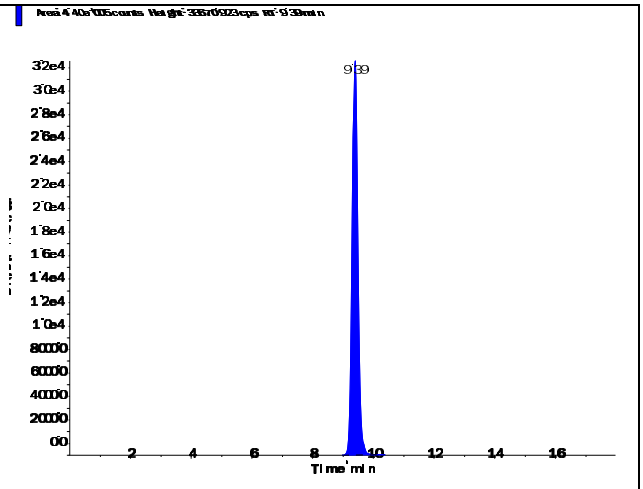
Sample Name	L16050763-15 MS	**Injection Vial**	21.00
Data File	LM35076.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 8:36:11 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-08	**Dilution Factor**	1.00
Sample Comment	1,1 STD75512	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.400e+05	9.39	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	2.940e+04	9.40	N/A	0.195
Perchlorate conf	1.000e+04	9.39	N/A	0.184

O18LP (Internal Standard)

RT (Exp. RT): 9.39(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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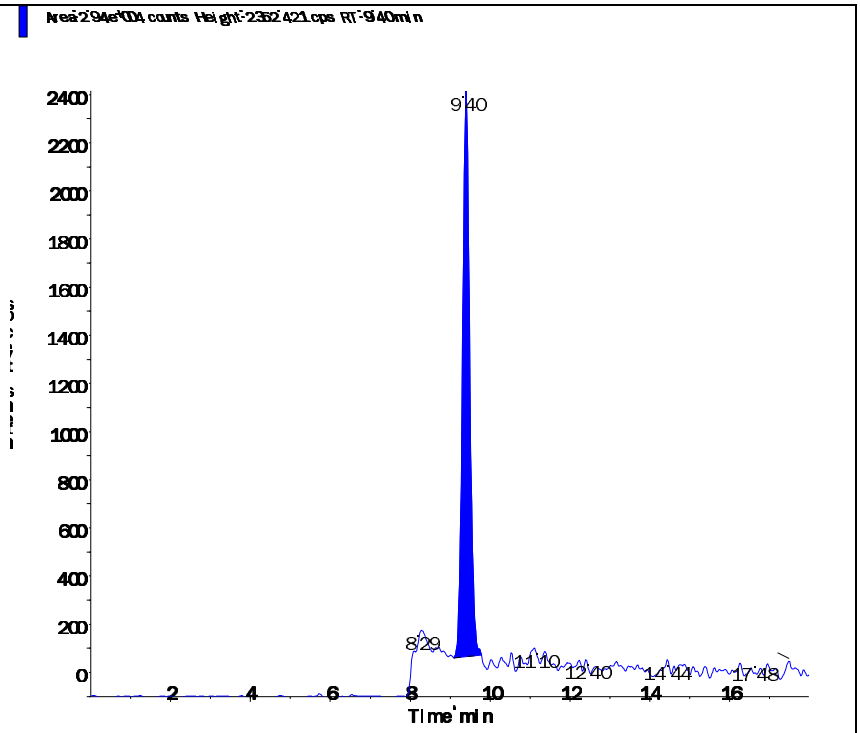
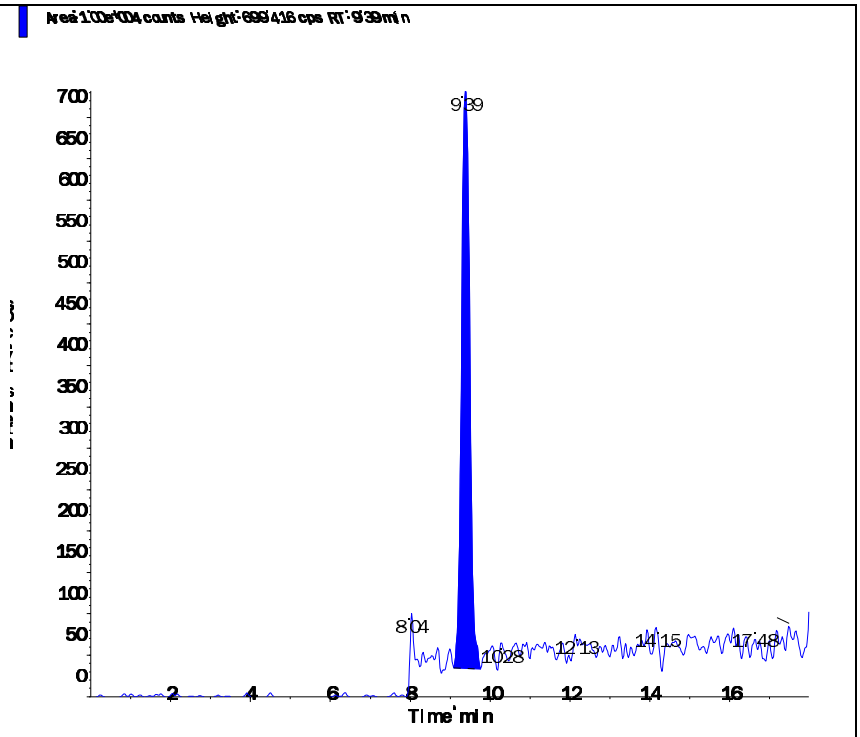
Perchlorate (98.8/83.3 amu)	
RT (Exp. RT):	9.40 (9.84) min
Calculated conc:	0.195 ng/ml
Area Ratio:	0.067
Sample Type:	(Unknown)



Perchlorate conf (100.8/85.2 amu)	
RT (Exp. RT):	9.39 (9.84) min
Calculated conc:	0.184 ng/ml
Area Ratio:	0.023
Sample Type:	(Unknown)



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Data File	LM35077.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 8:55:05 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

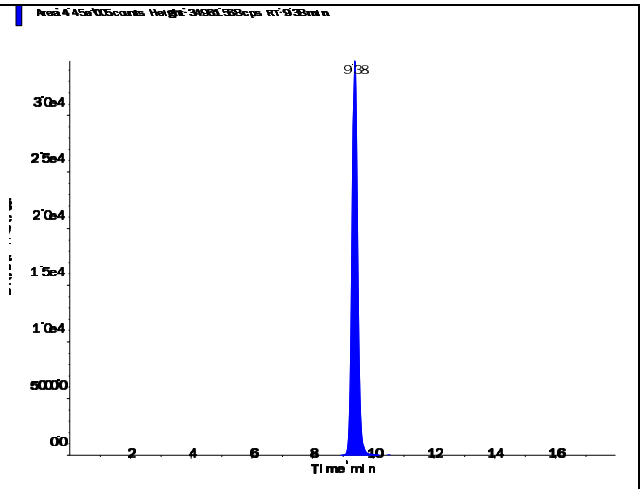
Sample Name	L16050763-16 MSD	**Injection Vial**	22.00
Data File	LM35077.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 8:55:05 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-09	**Dilution Factor**	1.00
Sample Comment	1,1 STD75512	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.450e+05	9.38	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	2.980e+04	9.40	N/A	0.195
Perchlorate conf	9.990e+03	9.39	N/A	0.181

O18LP (Internal Standard)

RT (Exp. RT): 9.38(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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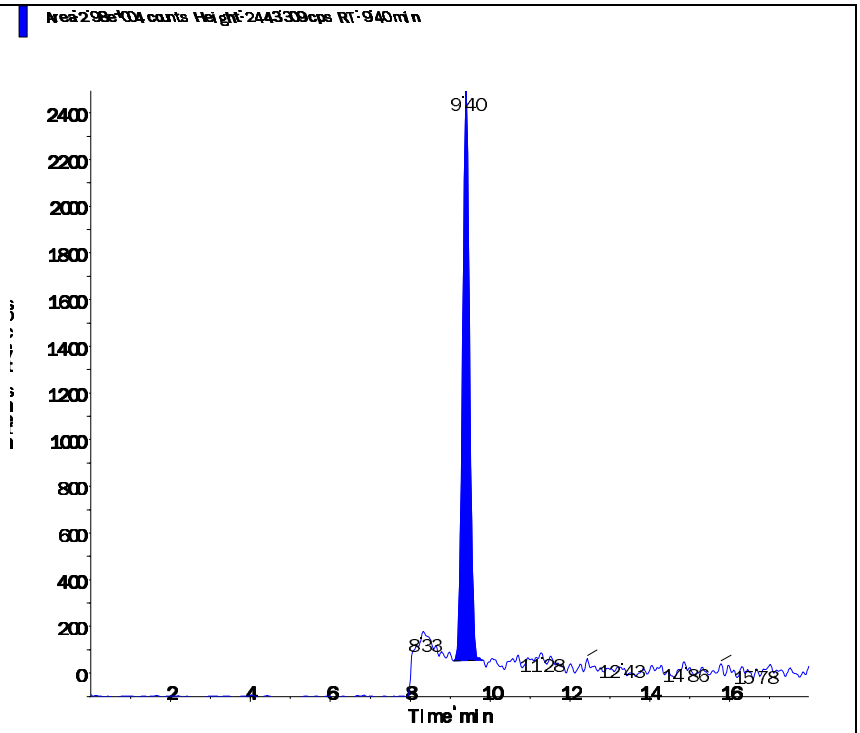
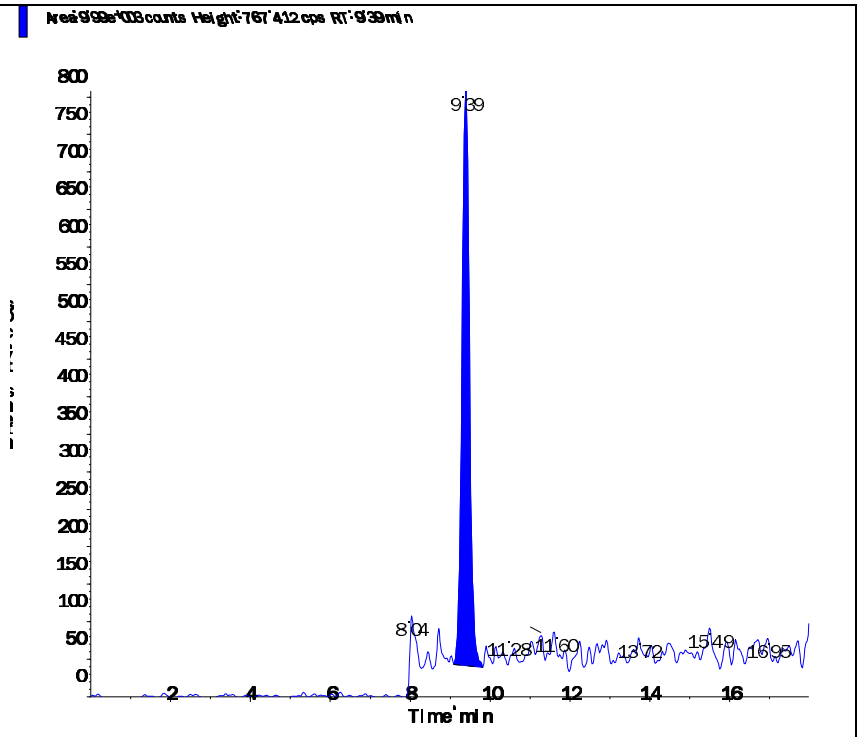
Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.40 (9.84) min 0.195 ng/ml 0.067 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.39 (9.84) min 0.181 ng/ml 0.022 (Unknown)



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Printed: 5/24/2016 10:12 AM

Data File	LM35082.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 10:29:48 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

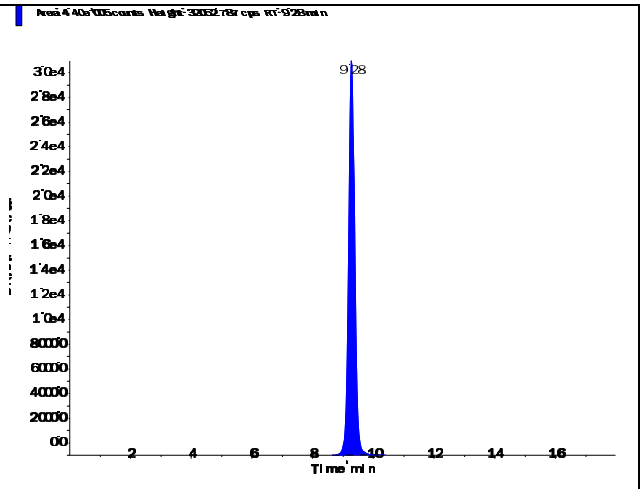
Sample Name	L16050763-17	**Injection Vial**	24.00
Data File	LM35082.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 10:29:48 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-17	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.400e+05	9.28	5.00	-

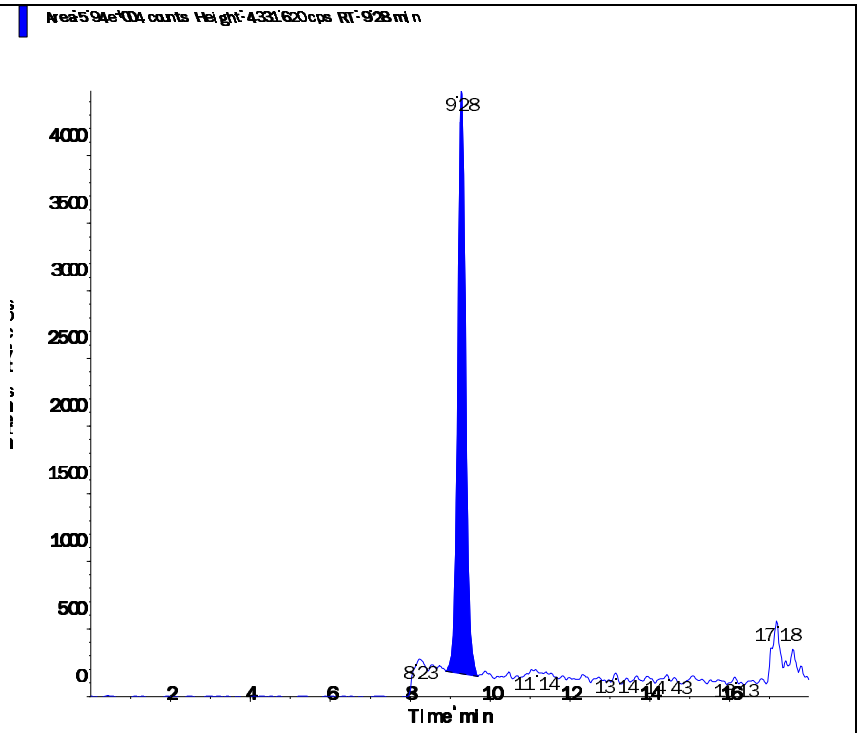
Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	5.940e+04	9.28	N/A	0.398
Perchlorate conf	2.100e+04	9.27	N/A	0.408

O18LP (Internal Standard)

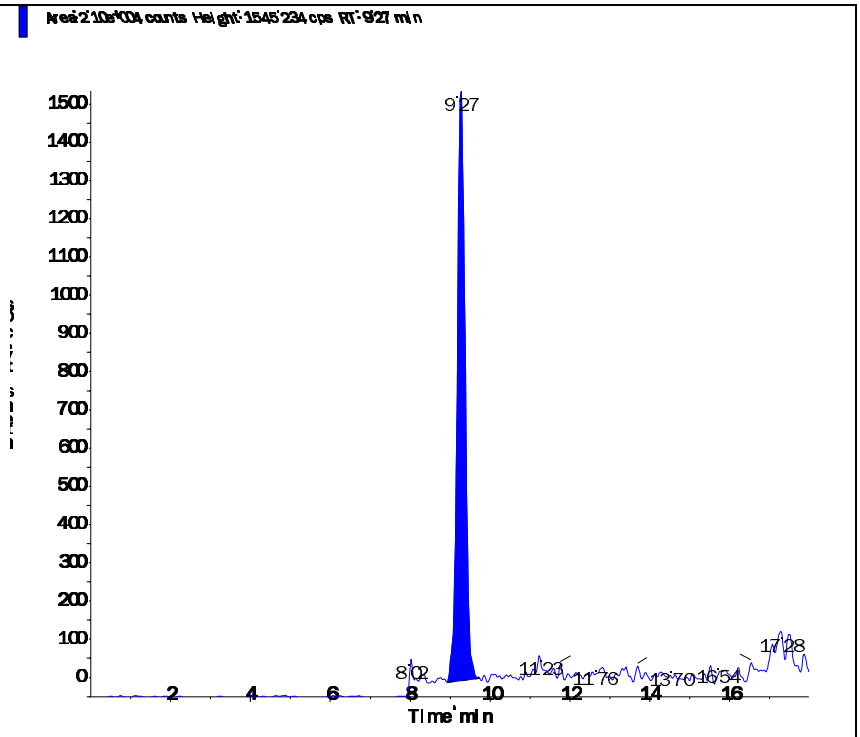
RT (Exp. RT): 9.28(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.28 (9.84) min 0.398 ng/ml 0.135 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.27 (9.84) min 0.408 ng/ml 0.048 (Unknown)



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Data File	LM35083.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 10:48:44 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

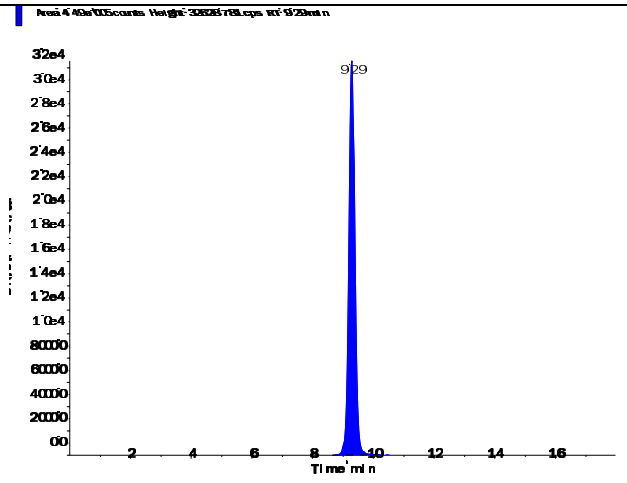
Sample Name	L16050763-18	**Injection Vial**	25.00
Data File	LM35083.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 10:48:44 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-18	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.490e+05	9.29	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	6.370e+04	9.30	N/A	0.418
Perchlorate conf	2.200e+04	9.28	N/A	0.418

O18LP (Internal Standard)

RT (Exp. RT): 9.29(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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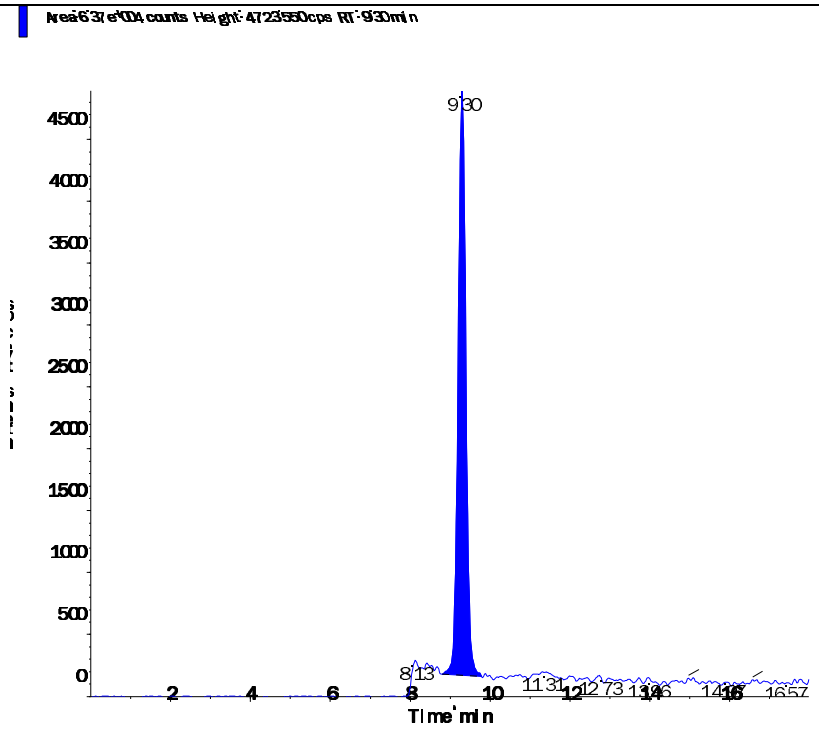
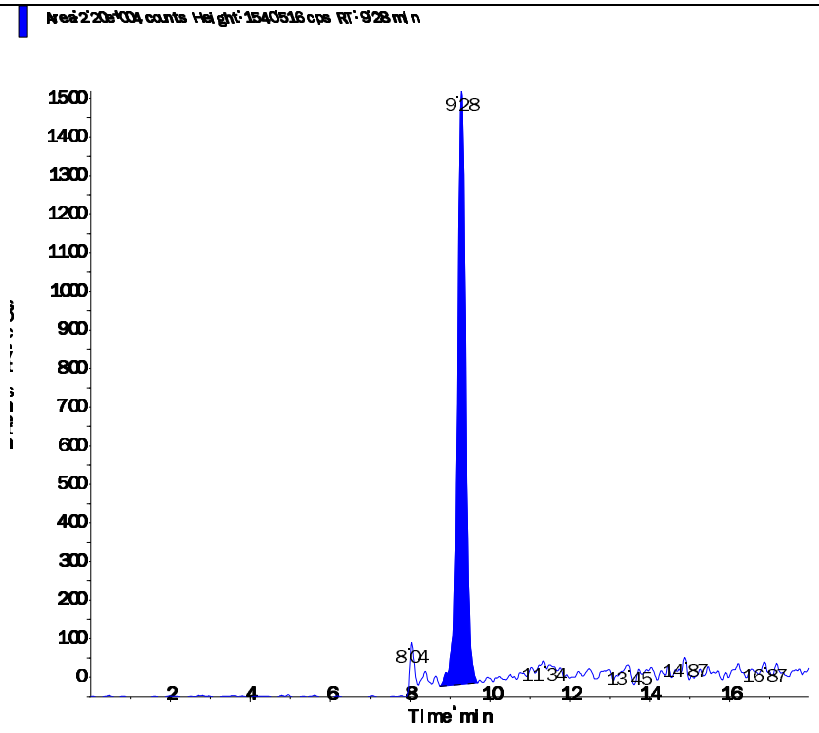
Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.30 (9.84) min 0.418 ng/ml 0.142 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.28 (9.84) min 0.418 ng/ml 0.049 (Unknown)



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Data File	LM35078.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 9:14:01 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

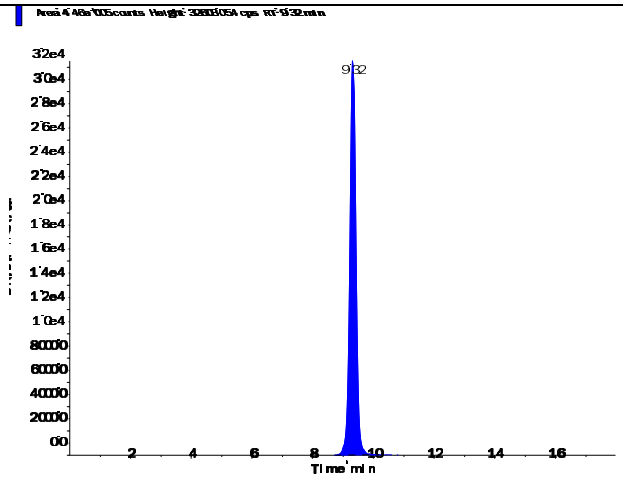
Sample Name	L16050763-19	**Injection Vial**	23.00
Data File	LM35078.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 9:14:01 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	L16050763-19	**Dilution Factor**	1.00
Sample Comment	1,1 (Hist)	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.460e+05	9.32	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	4.410e+03	9.32	N/A	0.0256
Perchlorate conf	1.560e+03	9.33	N/A	0.011

O18LP (Internal Standard)

RT (Exp. RT): 9.32(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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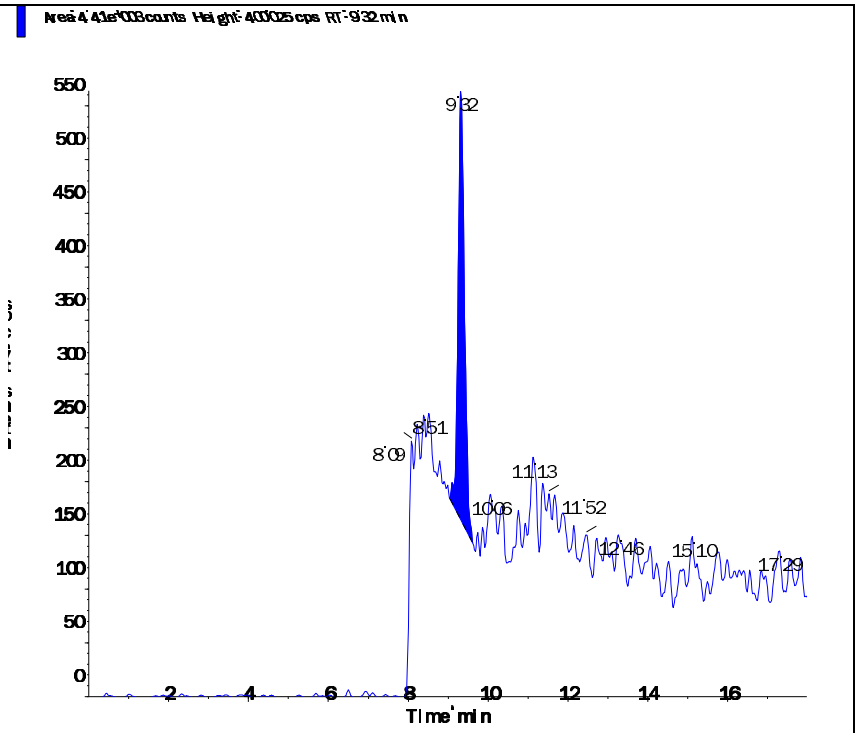
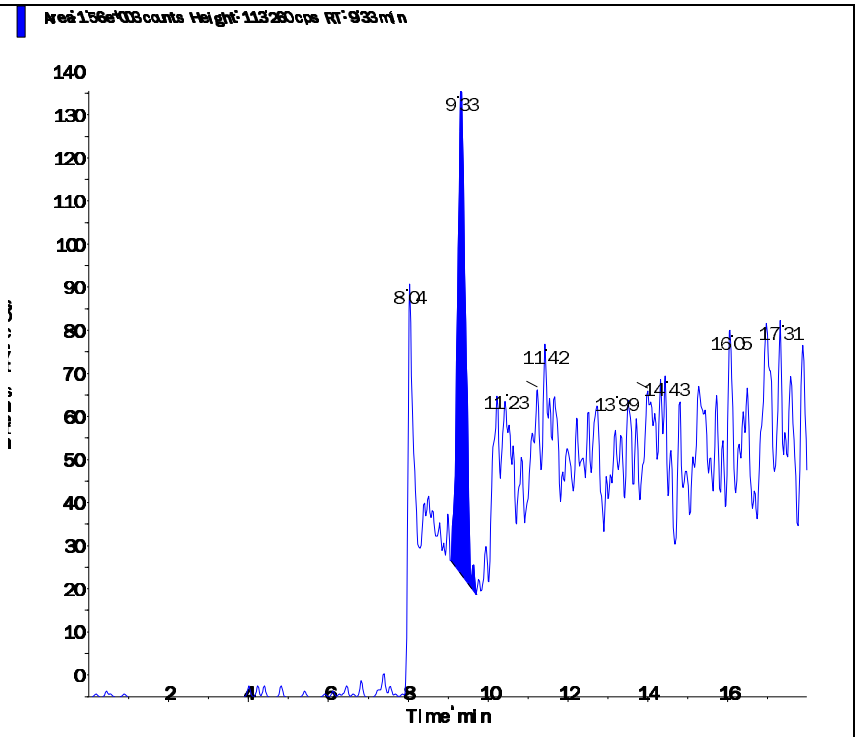
Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.32 (9.84) min 0.0256 ng/ml 0.01 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.33 (9.84) min 0.011 ng/ml 0.004 (Unknown)



s.dataFile Page 2 of 2

2.2.1.4 Standards Data

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Data File	LM34686.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/3/2016 3:06:05 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

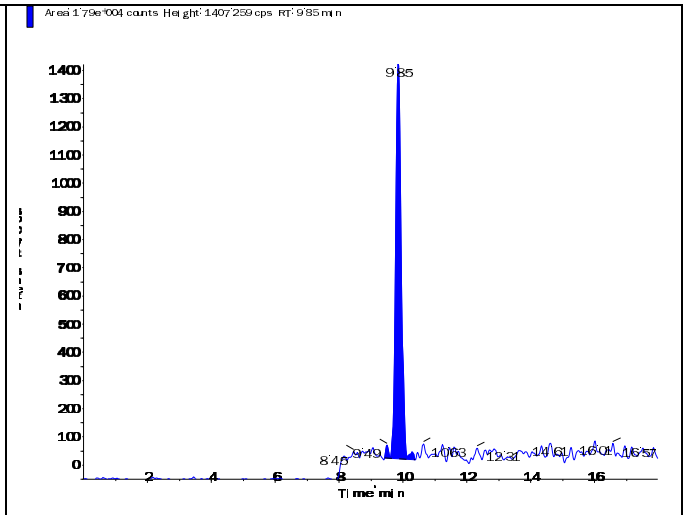
Sample Name	WG567320-01 CCB	**Injection Vial**	1.00
Data File	LM34686.wiff	**Injection Volume**	10.00
Acquisition Date	5/3/2016 3:06:05 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG567320-01	**Dilution Factor**	1.00
Sample Comment	11.00	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.020e+05	9.84	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	0.000e+00	0.00	N/A	No Peak
Perchlorate conf	0.000e+00	0.00	N/A	No Peak

O18LP (Internal Standard)

RT (Exp. RT): 9.84(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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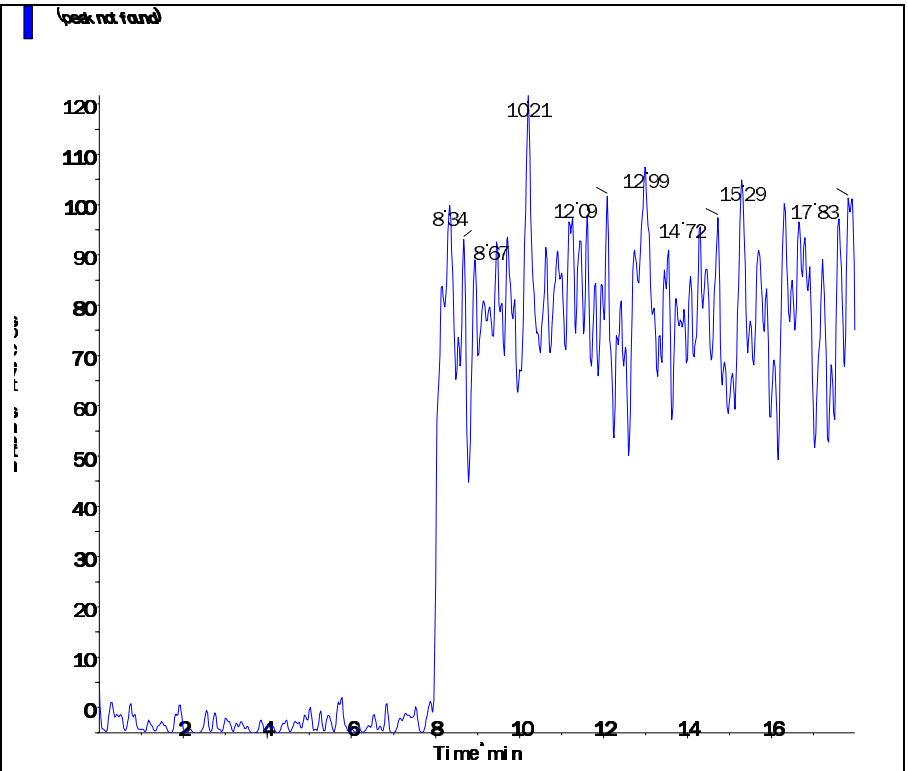
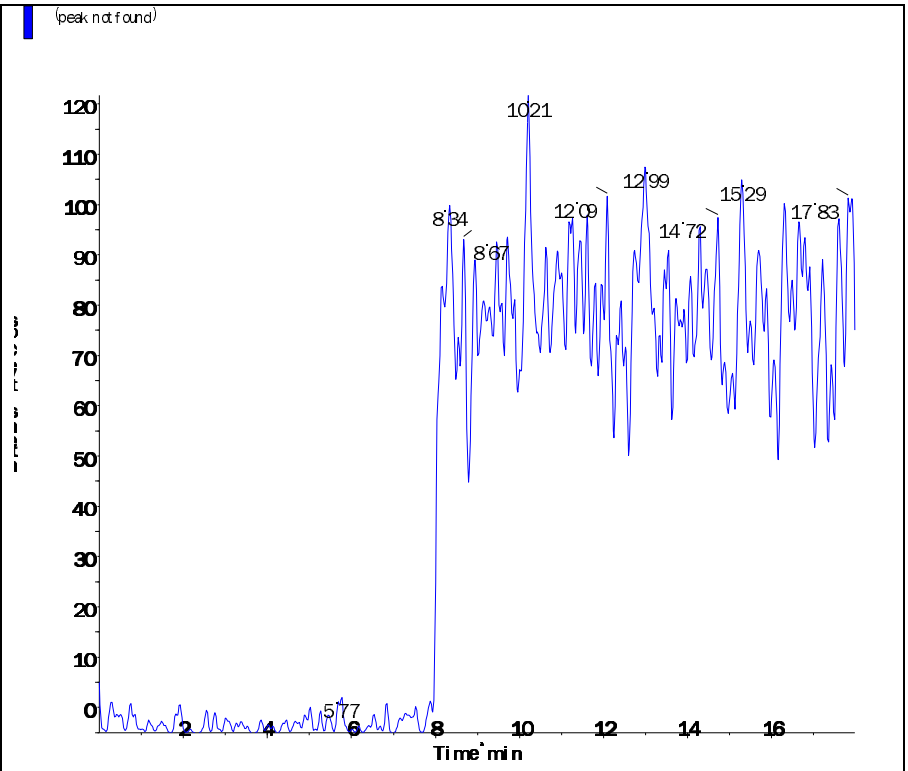
Printed: 5/24/2016 9:58 AM

Perchlorate (98.8/83.3 amu)	
RT (Exp. RT):	0.00 (9.84) min
Calculated conc:	No Peak ng/ml
Area Ratio:	0.00
Sample Type:	(Unknown)



Perchlorate conf (100.8/85.2 amu)	
RT (Exp. RT):	0.00 (9.84) min
Calculated conc:	No Peak ng/ml
Area Ratio:	0.00
Sample Type:	(Unknown)



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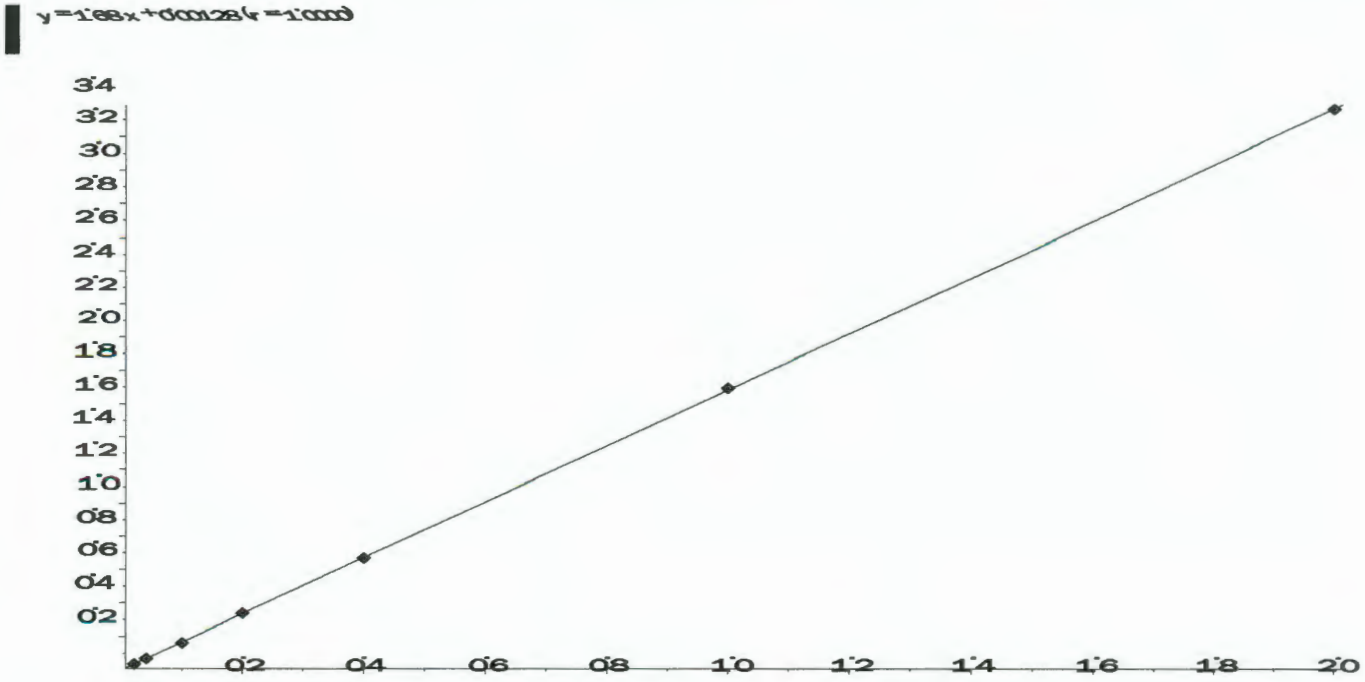
Created with Analyst Reporter
Printed: 5/4/2016 1:20 PM

Analyte Name: **Perchlorate**
Internal Standard: O18LP

Data File	LM34686.wiff	**Result Table**	050316_JWR.rdb
Acquisition Date	5/3/2016 3:06:05 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

Regression Equation: y = 1.68 x + 0.00128 (r = 1.0000)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
0.10	1	0.10	102.8	N/A	N/A
0.20	1	0.20	100.3	N/A	N/A
0.50	1	0.48	96.6	N/A	N/A
1.00	1	1.01	100.5	N/A	N/A
2.00	1	1.99	99.3	N/A	N/A
5.00	1	5.04	100.7	N/A	N/A
10.00	1	9.99	99.9	N/A	N/A



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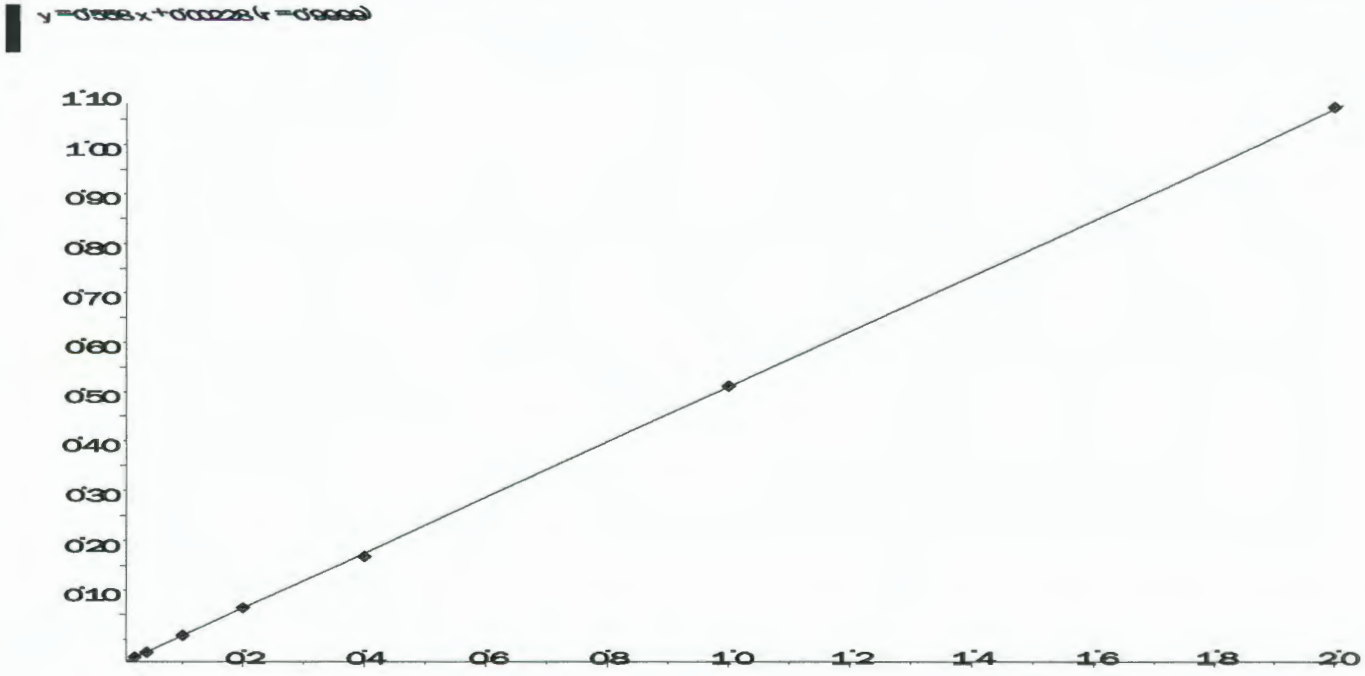
Analyte Name: **Perchlorate conf**
Internal Standard: O18LP

Data File	LM34686.wiff	**Result Table**	050316_JWR.rdb
Acquisition Date	5/3/2016 3:06:05 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

Regression Equation: y = 0.558 x + 0.00228 (r = 0.9999)

Expected Concentration	Number of Values	Mean Calculated Concentration	% Accuracy	Std. Deviation	%CV
0.10	1	0.10	104.3	N/A	N/A
0.20	1	0.19	96.8	N/A	N/A
0.50	1	0.50	100.6	N/A	N/A
1.00	1	1.00	100.5	N/A	N/A
2.00	1	1.94	97.2	N/A	N/A
5.00	1	5.02	100.4	N/A	N/A
10.00	1	10.03	100.3	N/A	N/A



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Printed: 5/24/2016 9:58 AM

Data File	LM34687.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/3/2016 3:25:04 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

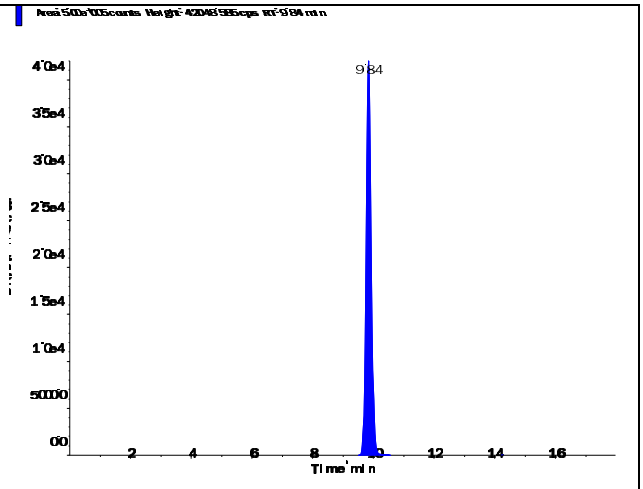
Sample Name	WG567320-02 STD (0.1 ug/L)	**Injection Vial**	2.00
Data File	LM34687.wiff	**Injection Volume**	10.00
Acquisition Date	5/3/2016 3:25:04 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Standard
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG567320-02	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.000e+05	9.84	5.00	-

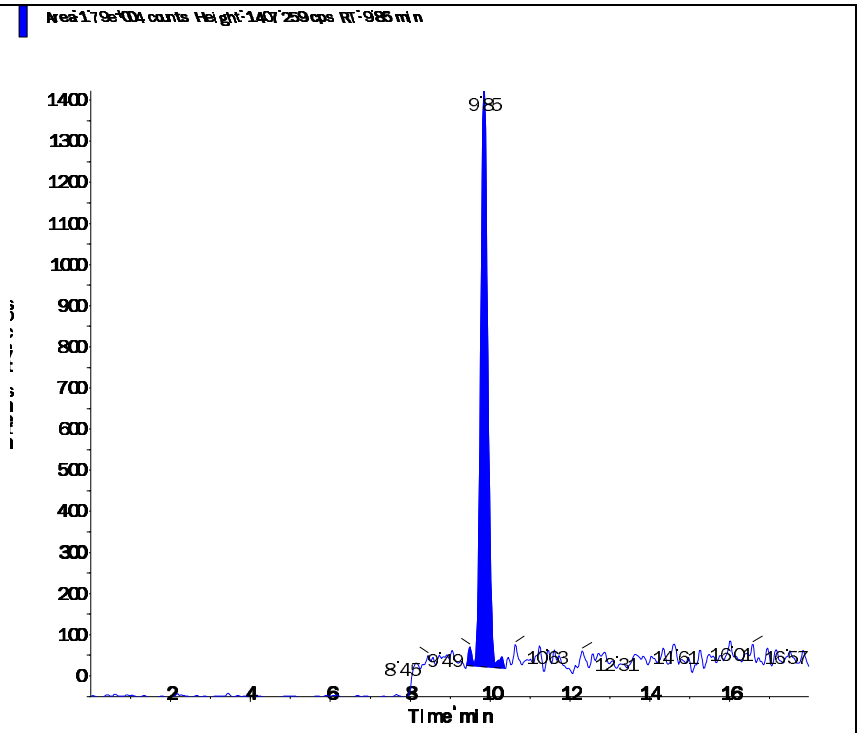
Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.790e+04	9.85	0.10	0.103
Perchlorate conf	6.950e+03	9.83	0.10	0.104

O18LP (Internal Standard)

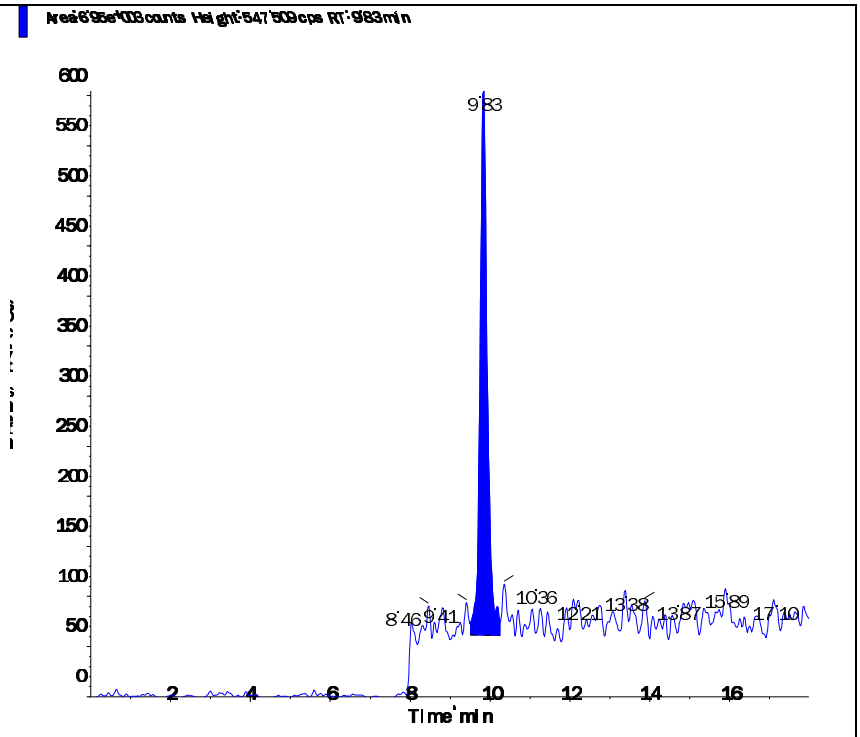
RT (Exp. RT): 9.84(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Standard)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.85 (9.84) min 0.103 ng/ml 0.036 (Standard)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.83 (9.84) min 0.104 ng/ml 0.014 (Standard)



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Data File	LM34688.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/3/2016 3:43:59 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

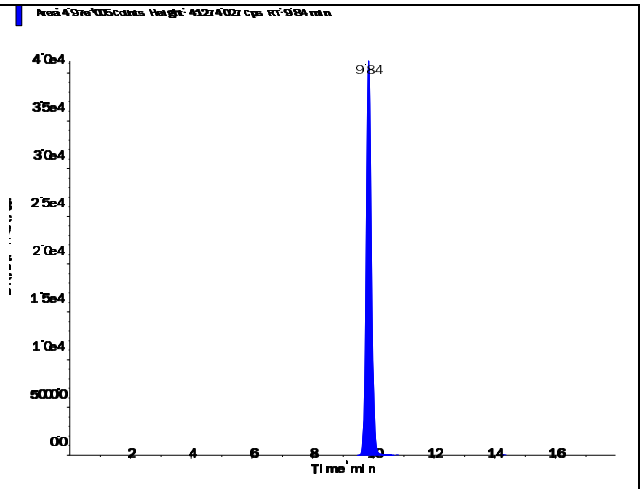
Sample Name	WG567320-03 STD (0.2 ug/L)	**Injection Vial**	3.00
Data File	LM34688.wiff	**Injection Volume**	10.00
Acquisition Date	5/3/2016 3:43:59 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Standard
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG567320-03	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.970e+05	9.84	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	3.410e+04	9.85	0.20	0.201
Perchlorate conf	1.190e+04	9.84	0.20	0.194

O18LP (Internal Standard)

RT (Exp. RT): 9.84(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Standard)



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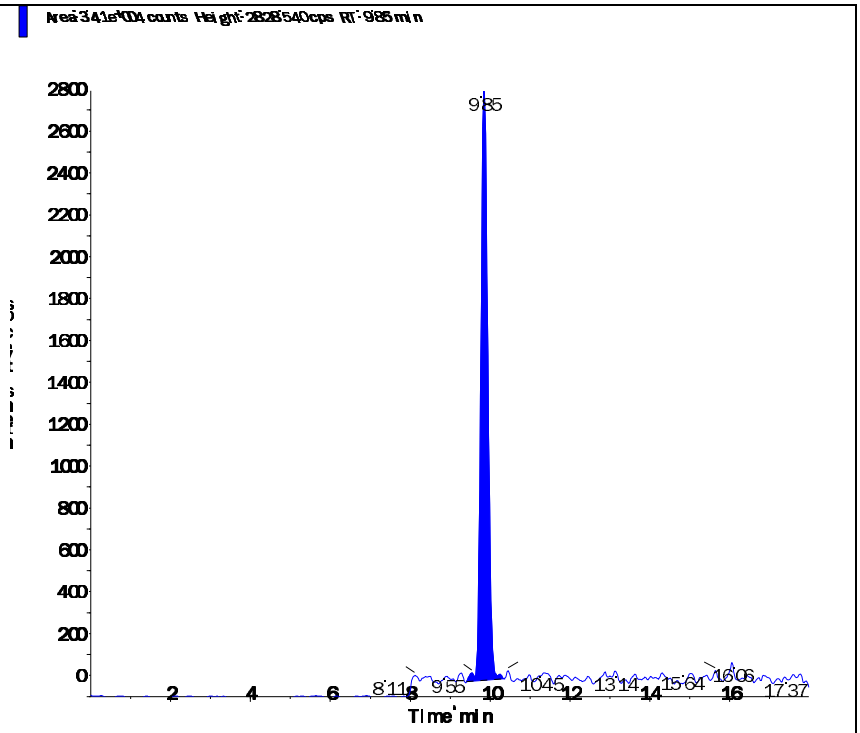
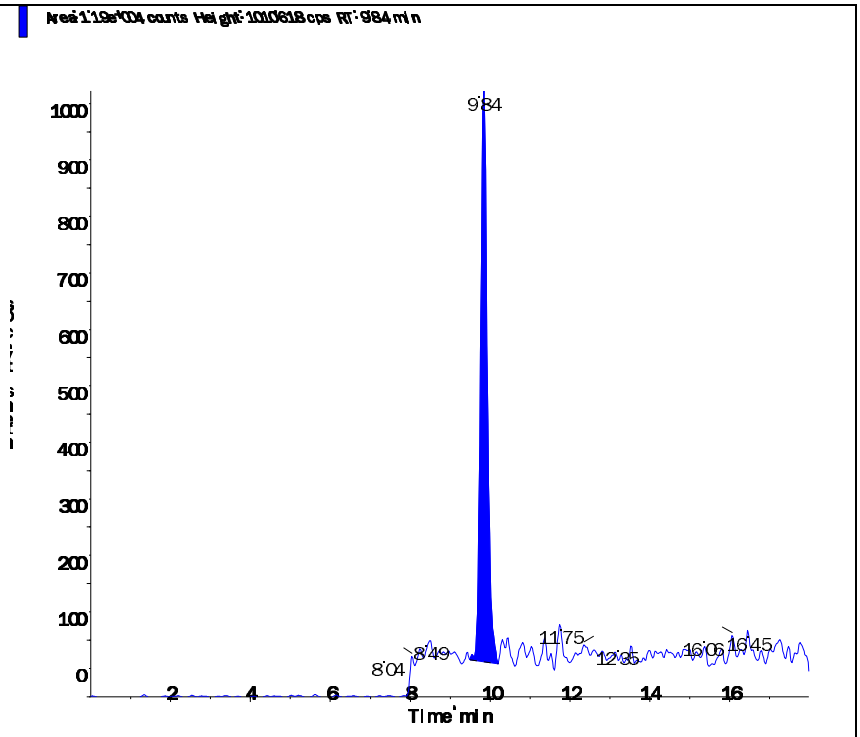
Perchlorate (98.8/83.3 amu)	
RT (Exp. RT):	9.85 (9.84) min
Calculated conc:	0.201 ng/ml
Area Ratio:	0.069
Sample Type:	(Standard)



Perchlorate conf (100.8/85.2 amu)	
RT (Exp. RT):	9.84 (9.84) min
Calculated conc:	0.194 ng/ml
Area Ratio:	0.024
Sample Type:	(Standard)



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Data File	LM34689.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/3/2016 4:02:52 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

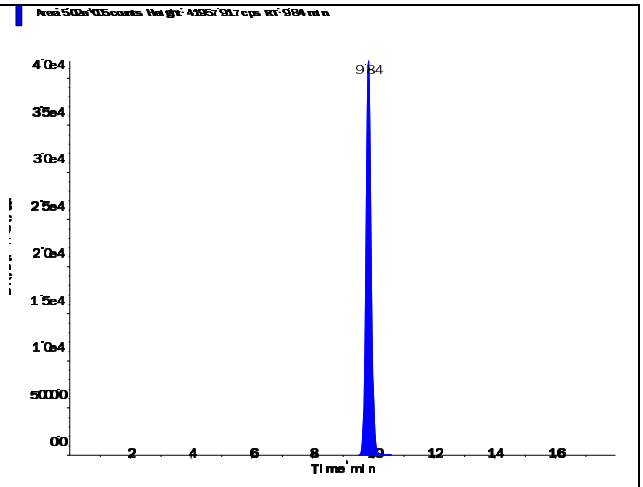
Sample Name	WG567320-04 STD (0.5 ug/L)	**Injection Vial**	4.00
Data File	LM34689.wiff	**Injection Volume**	10.00
Acquisition Date	5/3/2016 4:02:52 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Standard
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG567320-04	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.020e+05	9.84	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	8.220e+04	9.85	0.50	0.483
Perchlorate conf	2.940e+04	9.84	0.50	0.503

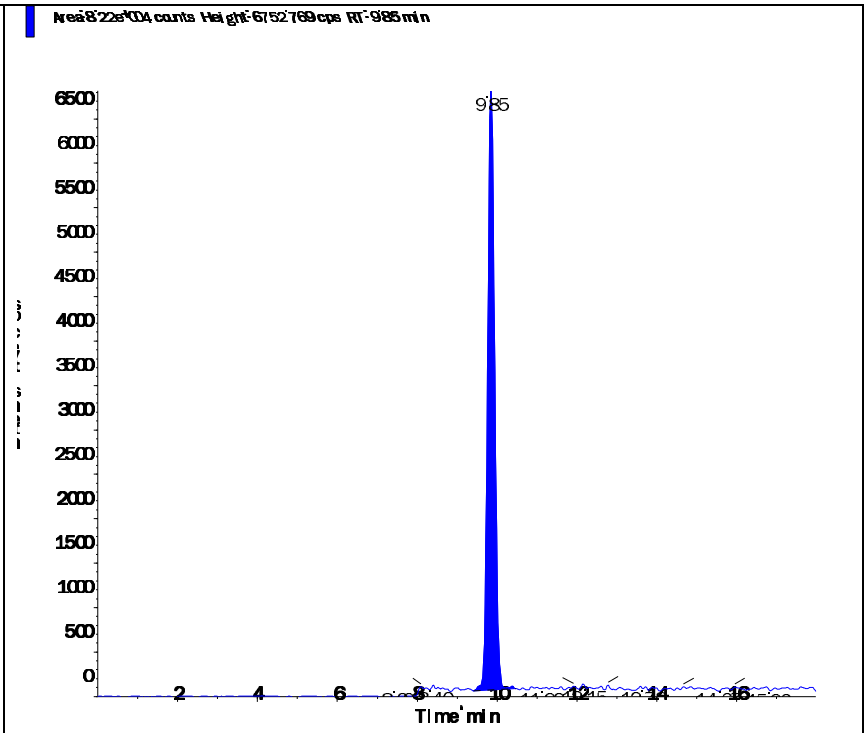
O18LP (Internal Standard)

RT (Exp. RT): 9.84(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Standard)



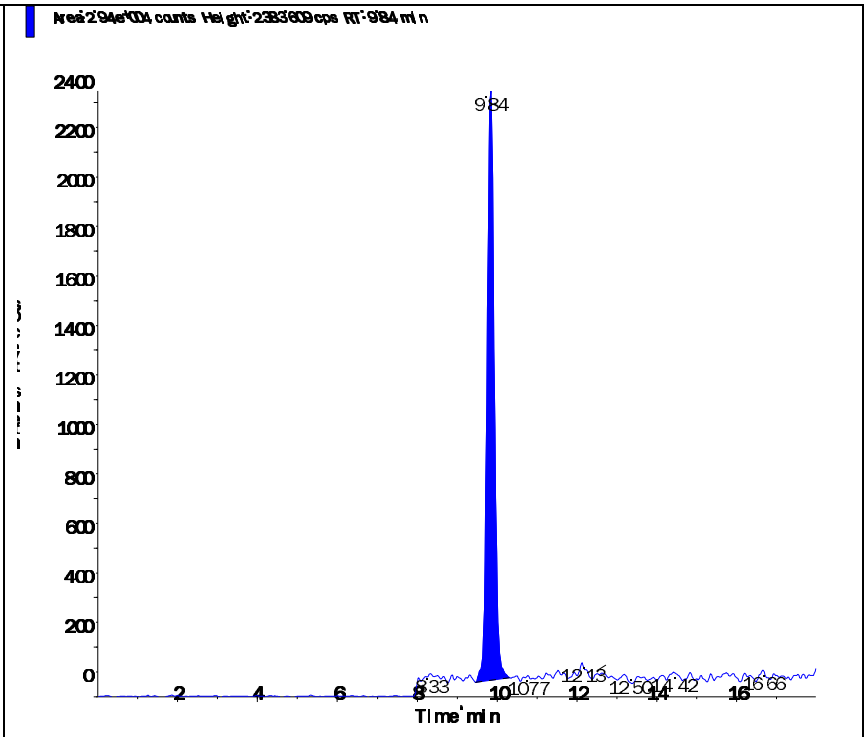
Perchlorate (98.8/83.3 amu)

RT (Exp. RT):	9.85 (9.84) min
Calculated conc:	0.483 ng/ml
Area Ratio:	0.164
Sample Type:	(Standard)



Perchlorate conf (100.8/85.2 amu)

RT (Exp. RT):	9.84 (9.84) min
Calculated conc:	0.503 ng/ml
Area Ratio:	0.058
Sample Type:	(Standard)



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Data File	LM34690.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/3/2016 4:21:49 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

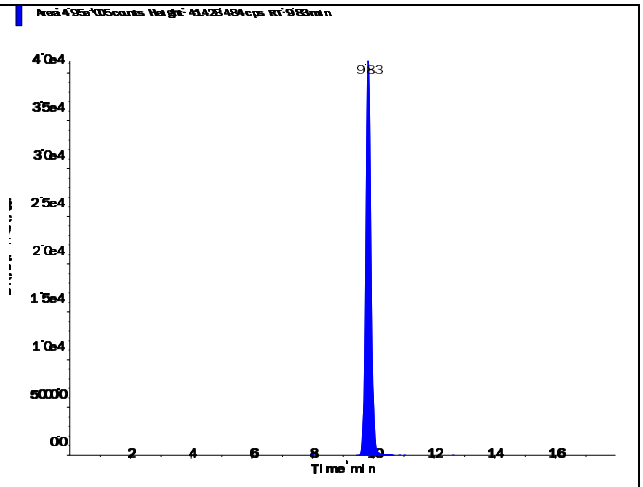
Sample Name	WG567320-05 STD (1.0 ug/L)	**Injection Vial**	5.00
Data File	LM34690.wiff	**Injection Volume**	10.00
Acquisition Date	5/3/2016 4:21:49 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Standard
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG567320-05	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

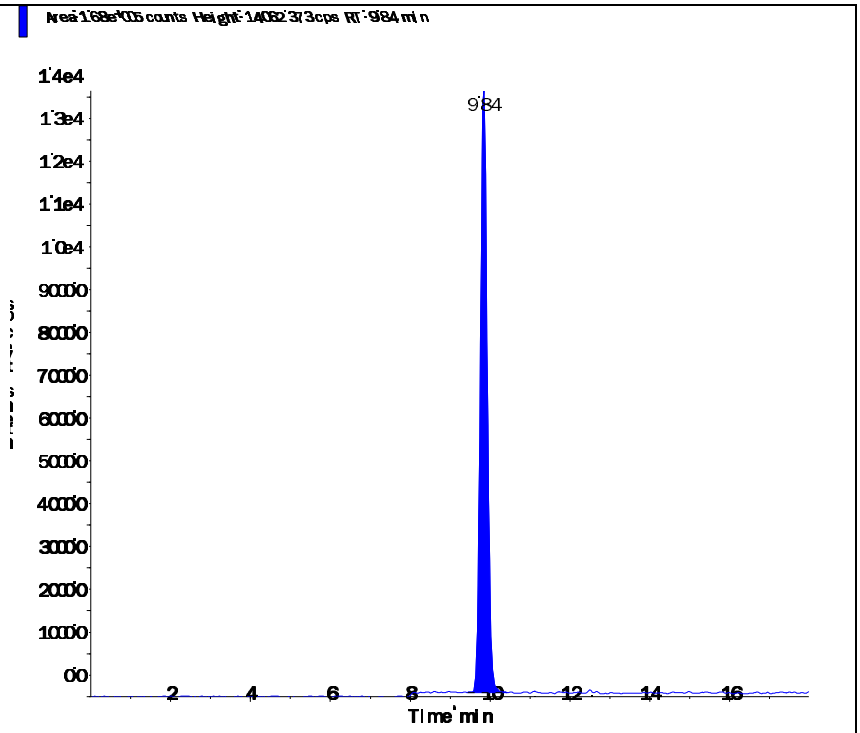
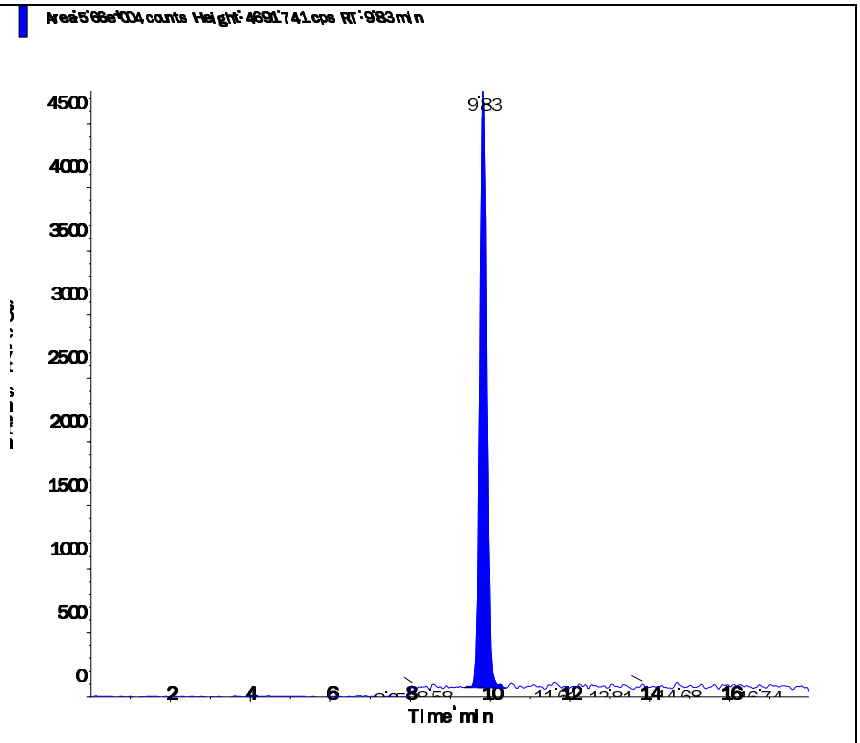
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.950e+05	9.83	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.680e+05	9.84	1.00	1.01
Perchlorate conf	5.660e+04	9.83	1.00	1.00

O18LP (Internal Standard)

RT (Exp. RT): 9.83(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Standard)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 9.84 (9.84) min Calculated conc: 1.01 ng/ml Area Ratio: 0.339 Sample Type: (Standard)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 9.83 (9.84) min Calculated conc: 1.00 ng/ml Area Ratio: 0.114 Sample Type: (Standard)	

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Data File	LM34691.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/3/2016 4:40:45 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

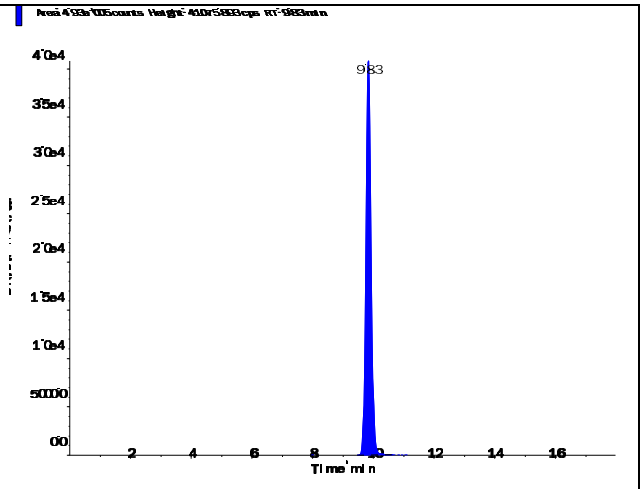
Sample Name	WG567320-06 STD (2.0 ug/L)	**Injection Vial**	6.00
Data File	LM34691.wiff	**Injection Volume**	10.00
Acquisition Date	5/3/2016 4:40:45 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Standard
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG567320-06	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.930e+05	9.83	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	3.300e+05	9.84	2.00	1.99
Perchlorate conf	1.080e+05	9.83	2.00	1.94

O18LP (Internal Standard)

RT (Exp. RT): 9.83(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Standard)



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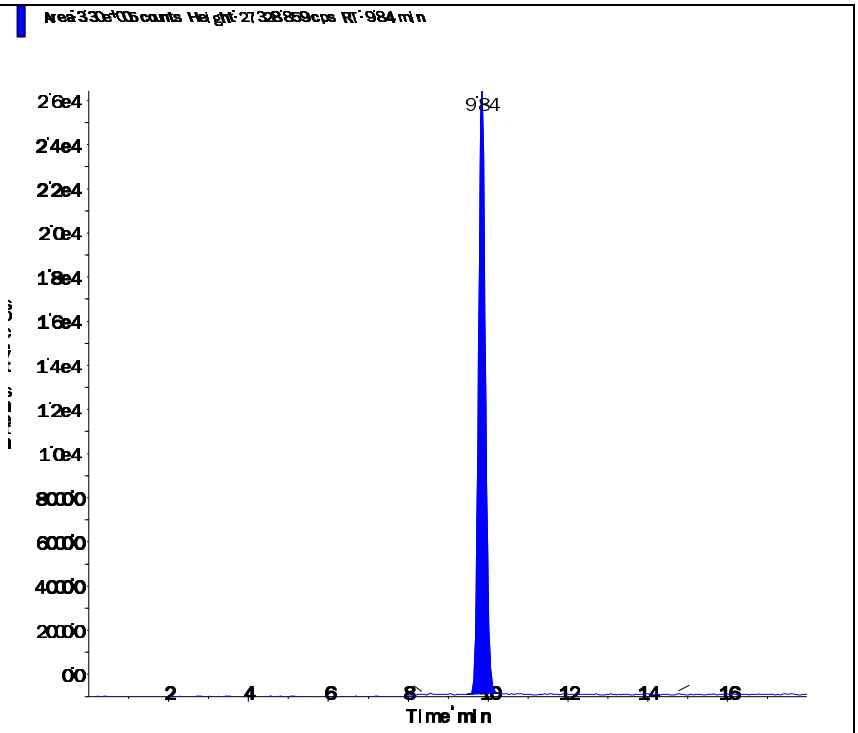
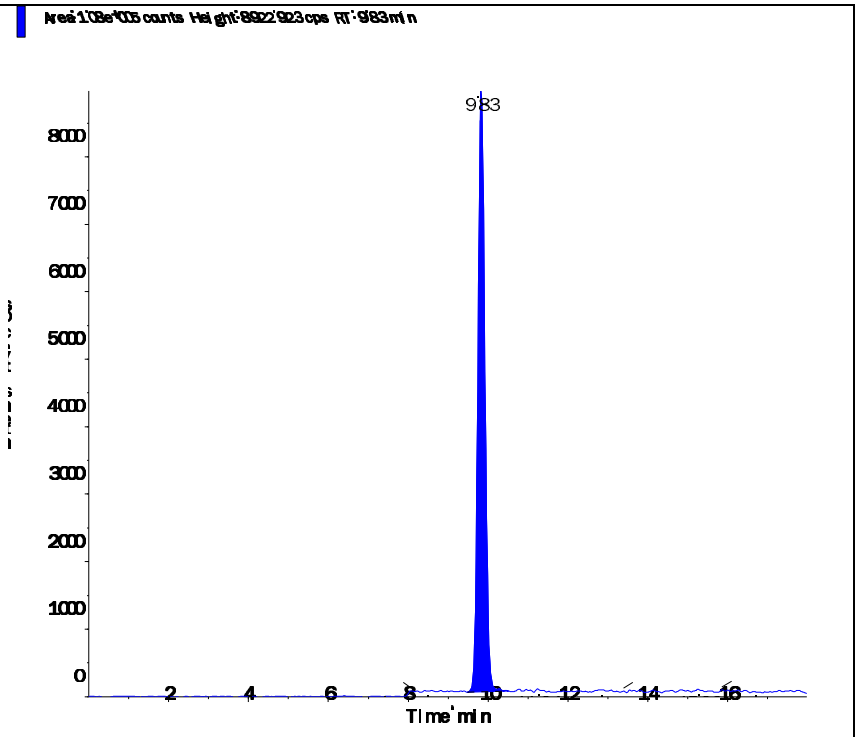
Perchlorate (98.8/83.3 amu)	
RT (Exp. RT):	9.84 (9.84) min
Calculated conc:	1.99 ng/ml
Area Ratio:	0.669
Sample Type:	(Standard)



Perchlorate conf (100.8/85.2 amu)	
RT (Exp. RT):	9.83 (9.84) min
Calculated conc:	1.94 ng/ml
Area Ratio:	0.219
Sample Type:	(Standard)



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Data File	LM34692.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/3/2016 4:59:42 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

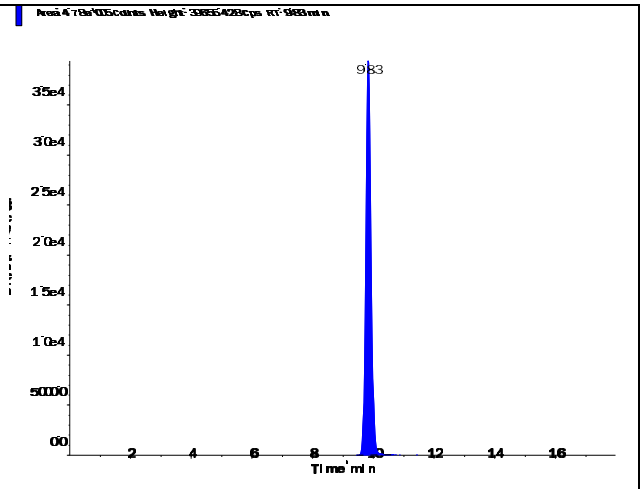
Sample Name	WG567320-07 STD (5.0 ug/L)	**Injection Vial**	7.00
Data File	LM34692.wiff	**Injection Volume**	10.00
Acquisition Date	5/3/2016 4:59:42 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Standard
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG567320-07	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

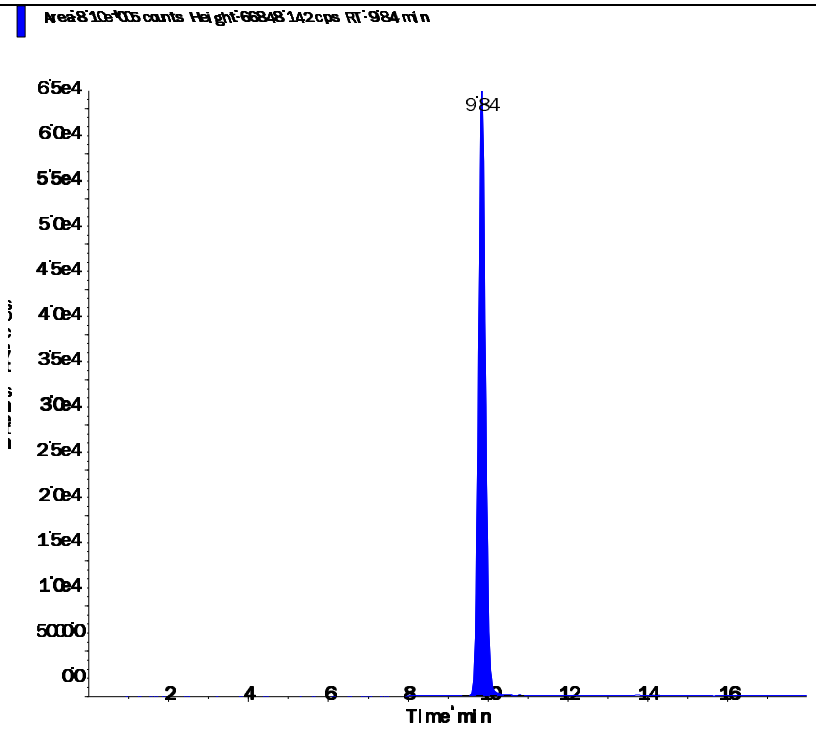
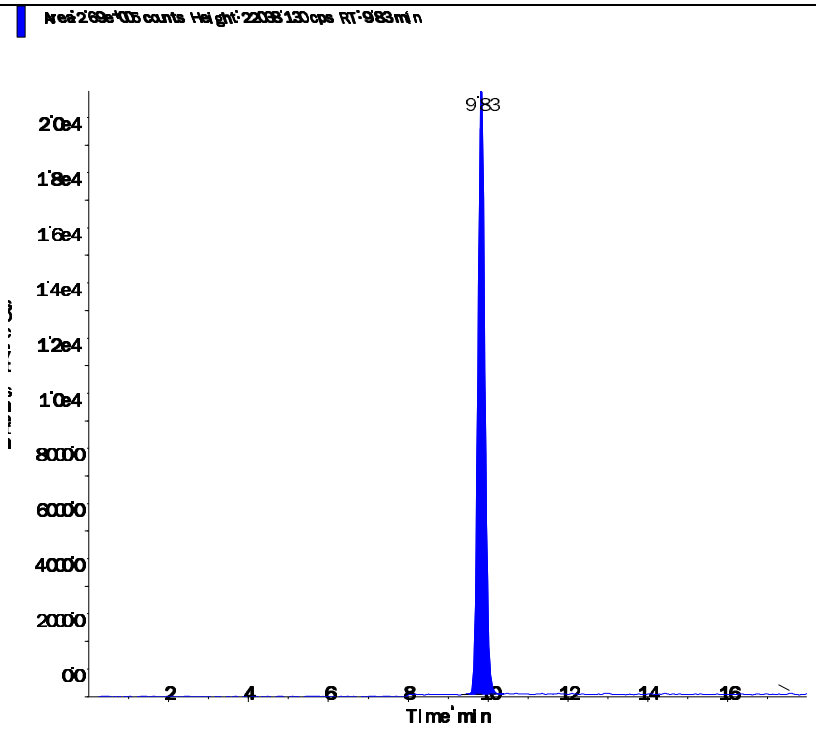
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.780e+05	9.83	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	8.100e+05	9.84	5.00	5.04
Perchlorate conf	2.690e+05	9.83	5.00	5.02

O18LP (Internal Standard)

RT (Exp. RT): 9.83(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Standard)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 9.84 (9.84) min Calculated conc: 5.04 ng/ml Area Ratio: 1.695 Sample Type: (Standard)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 9.83 (9.84) min Calculated conc: 5.02 ng/ml Area Ratio: 0.562 Sample Type: (Standard)	

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Data File	LM34693.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/3/2016 5:18:37 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

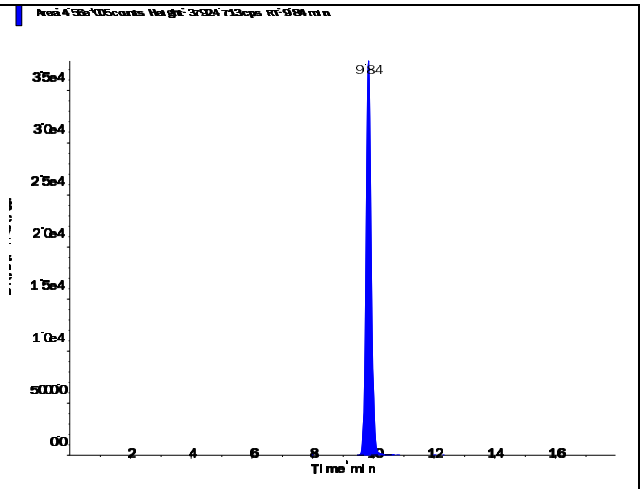
Sample Name	WG567320-08 STD (10 ug/L)	**Injection Vial**	8.00
Data File	LM34693.wiff	**Injection Volume**	10.00
Acquisition Date	5/3/2016 5:18:37 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Standard
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG567320-08	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

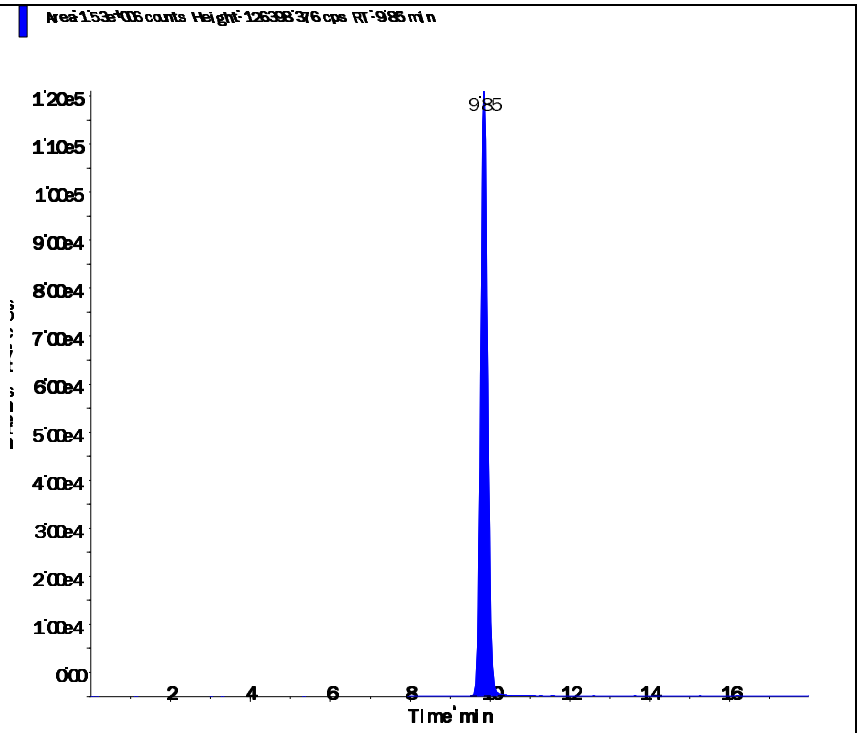
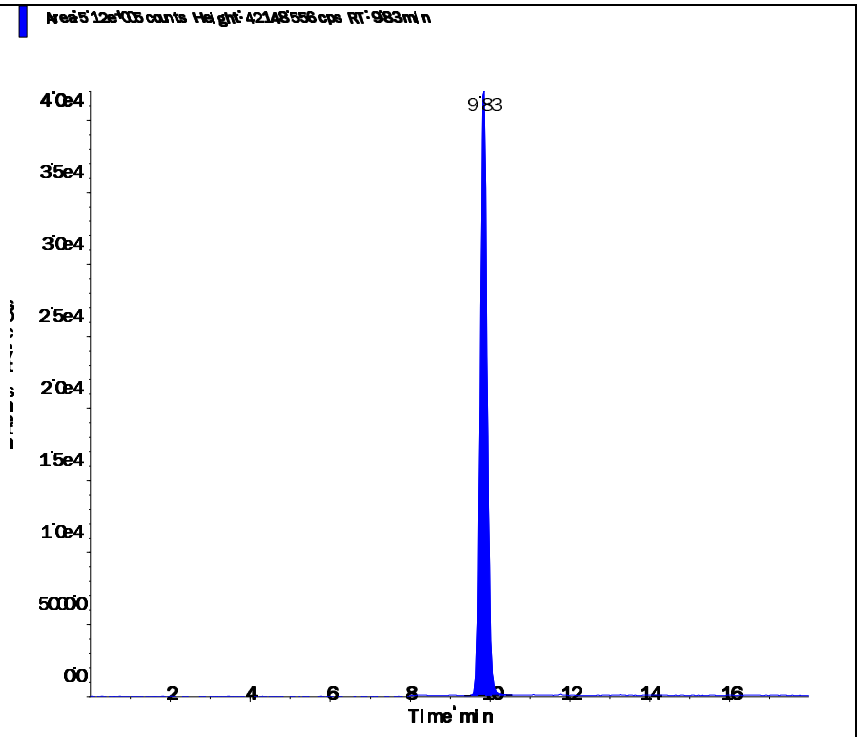
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.560e+05	9.84	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.530e+06	9.85	10.00	9.99
Perchlorate conf	5.120e+05	9.83	10.00	10.00

O18LP (Internal Standard)

RT (Exp. RT): 9.84(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Standard)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 9.85 (9.84) min Calculated conc: 9.99 ng/ml Area Ratio: 3.36 Sample Type: (Standard)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 9.83 (9.84) min Calculated conc: 10.00 ng/ml Area Ratio: 1.122 Sample Type: (Standard)	

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Data File	LM34694.wiff	**Result Table**	050316_JWR.rdb
Acquisition Date	5/3/2016 5:37:34 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

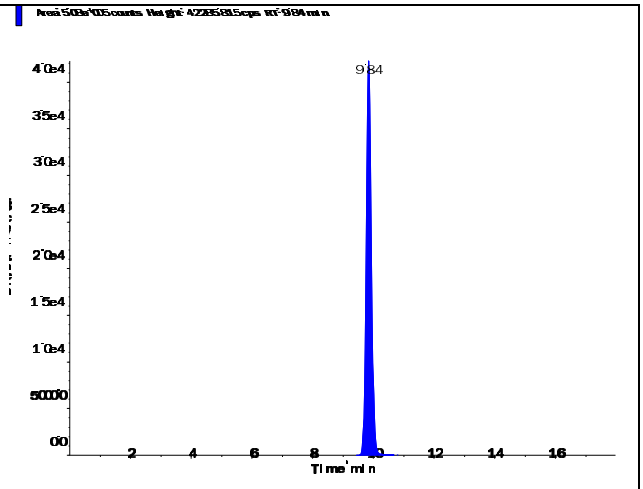
Sample Name	WG567320-09 SSCV (1.0 ug/L)	**Injection Vial**	9.00
Data File	LM34694.wiff	**Injection Volume**	10.00
Acquisition Date	5/3/2016 5:37:34 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Quality Control
Instrument Name	API 4000	**Result Table**	050316_JWR.rdb
Sample ID	WG567320-09	**Dilution Factor**	1.00
Sample Comment	1,1 STD75512	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.080e+05	9.84	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.690e+05	9.85	1.00	0.985
Perchlorate conf	5.630e+04	9.84	1.00	0.973

O18LP (Internal Standard)

RT (Exp. RT): 9.84(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Quality Control)



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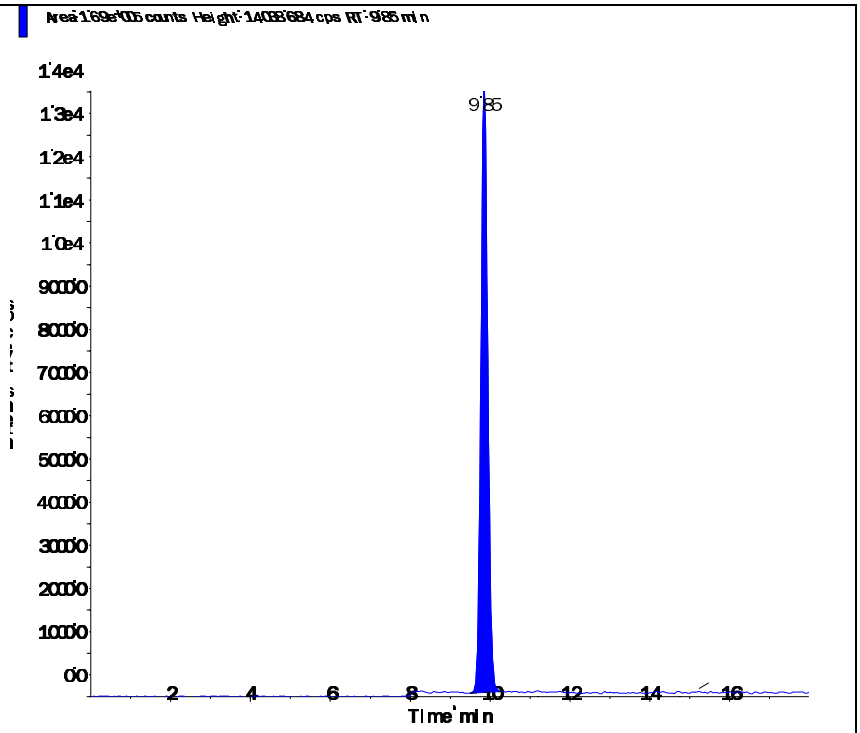
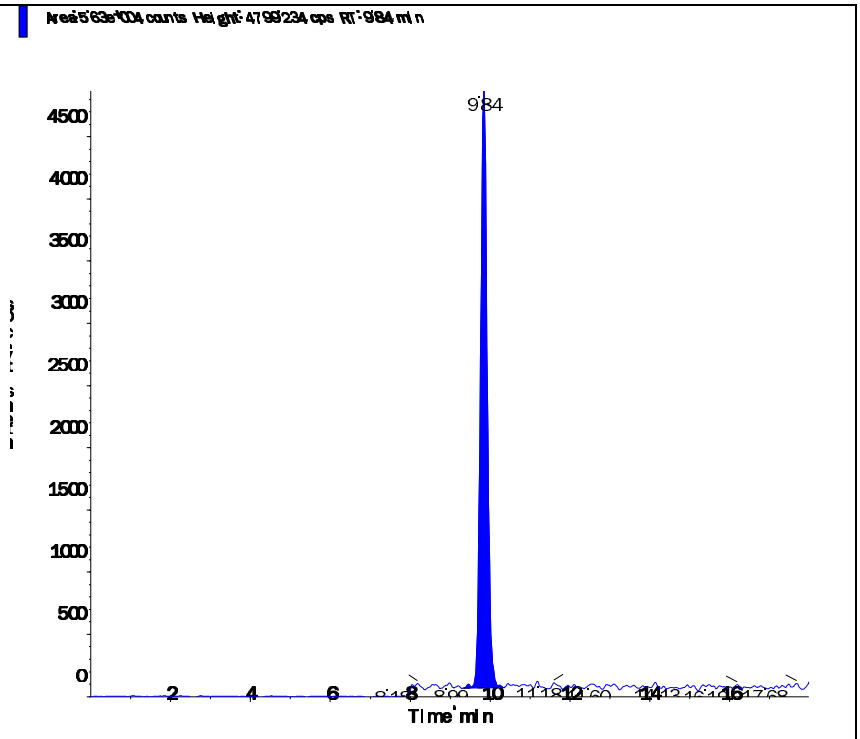
Printed: 5/4/2016 1:23 PM

Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.85 (9.84) min 0.985 ng/ml 0.332 (Quality Control)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.84 (9.84) min 0.973 ng/ml 0.111 (Quality Control)



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Data File	LM35054.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 1:39:32 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

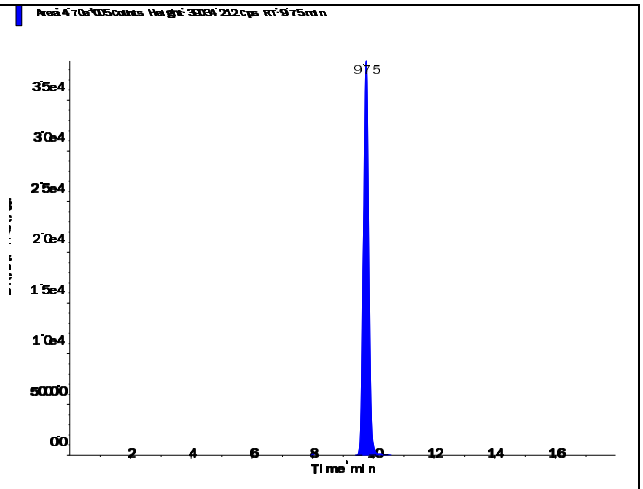
Sample Name	WG569899-02 CCV (1.0ug/L)	**Injection Vial**	3.00
Data File	LM35054.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 1:39:32 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Quality Control
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569899-02	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.700e+05	9.75	5.00	-

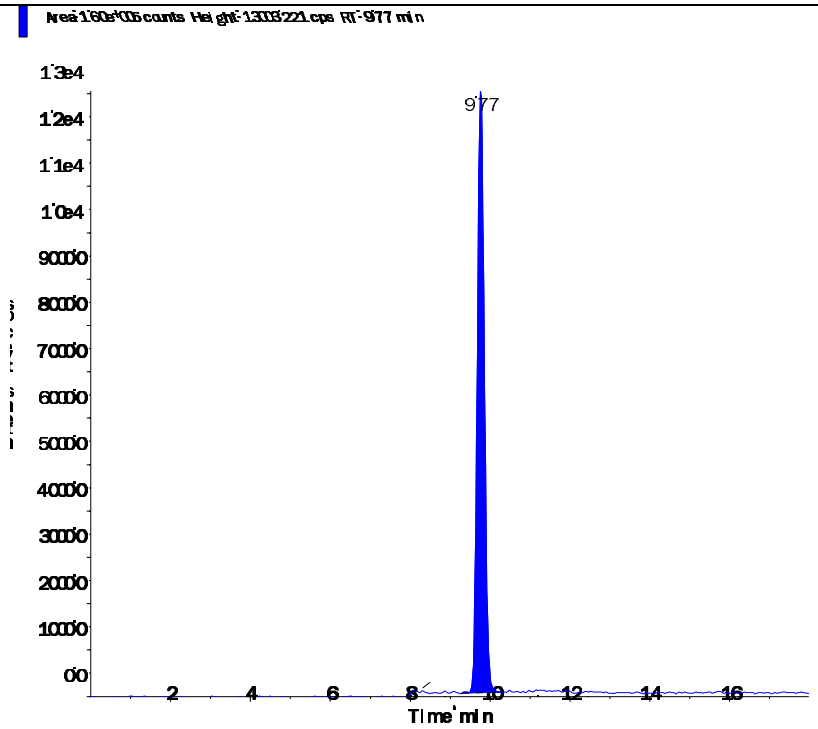
Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.600e+05	9.77	1.00	1.01
Perchlorate conf	5.590e+04	9.75	1.00	1.05

O18LP (Internal Standard)

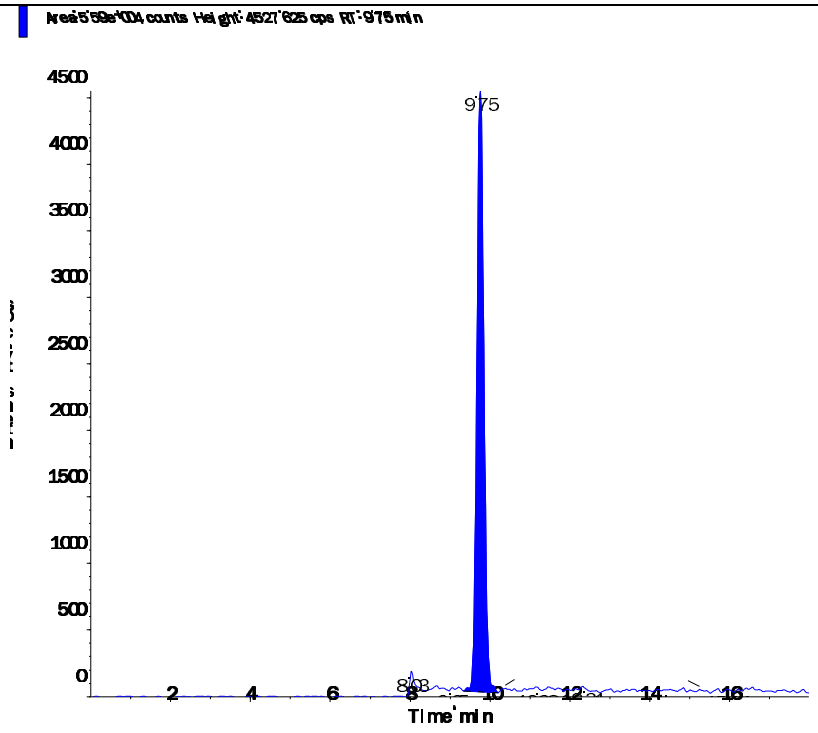
RT (Exp. RT): 9.75(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Quality Control)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.77 (9.84) min 1.01 ng/ml 0.34 (Quality Control)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.75 (9.84) min 1.05 ng/ml 0.119 (Quality Control)



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Data File	LM35066.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 5:26:47 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

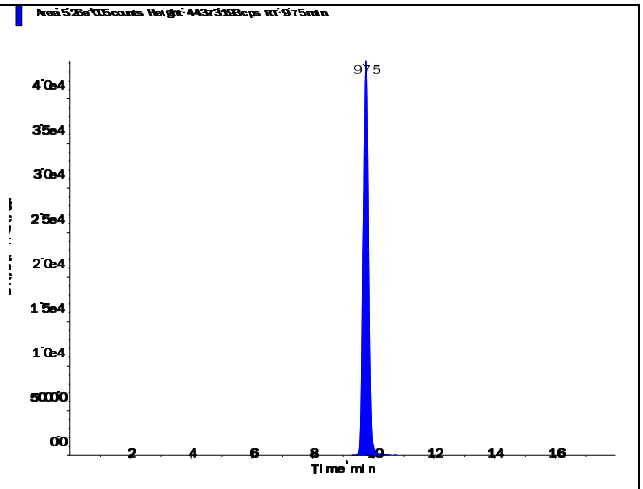
Sample Name	WG569899-03 CCV (1.0ug/L)	**Injection Vial**	3.00
Data File	LM35066.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 5:26:47 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Quality Control
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569899-03	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.260e+05	9.75	5.00	-

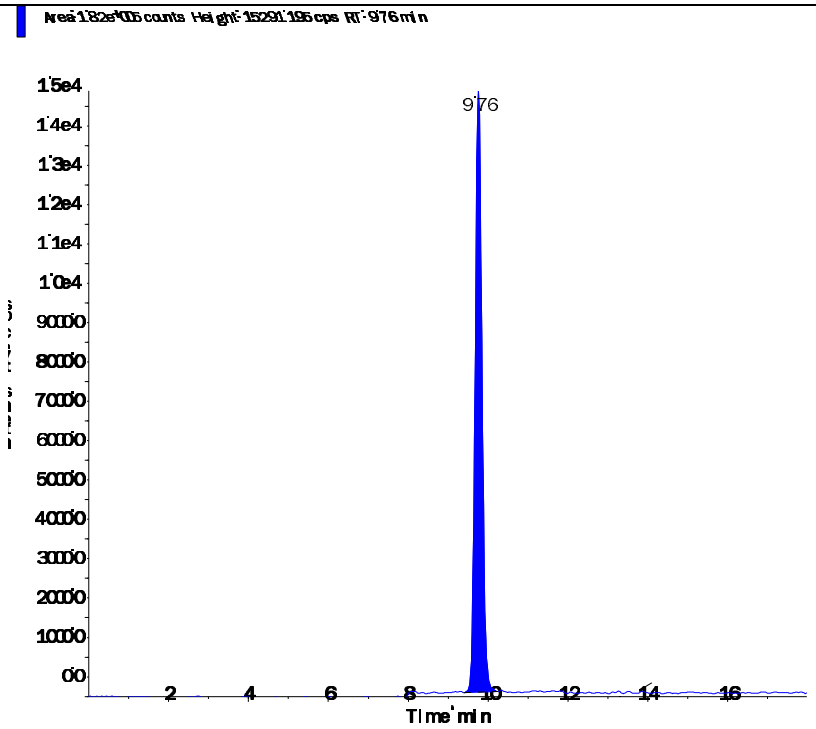
Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.820e+05	9.76	1.00	1.02
Perchlorate conf	6.010e+04	9.75	1.00	1.00

O18LP (Internal Standard)

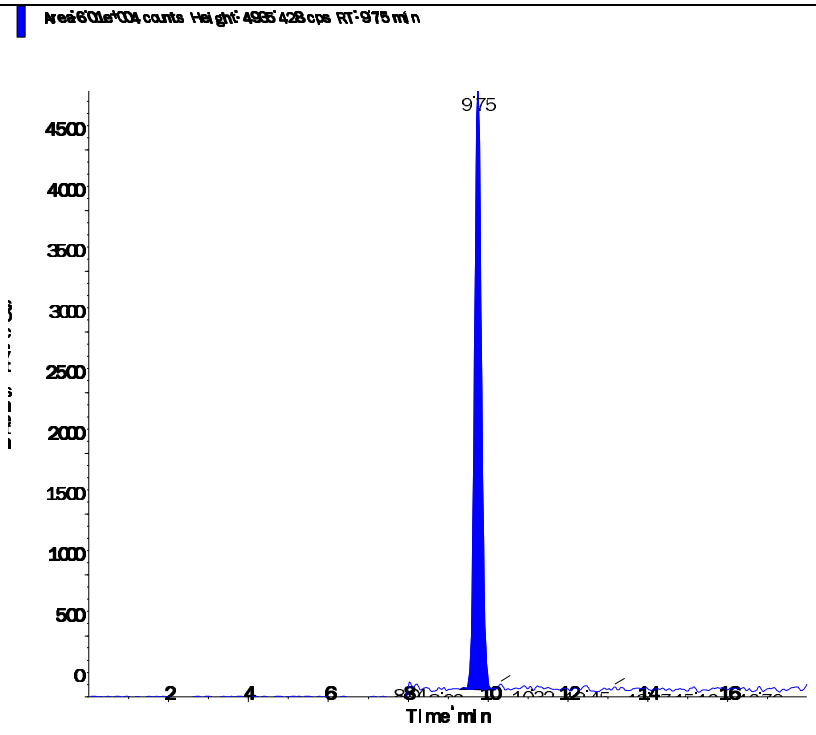
RT (Exp. RT): 9.75(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Quality Control)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.76 (9.84) min 1.02 ng/ml 0.346 (Quality Control)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.75 (9.84) min 1.00 ng/ml 0.114 (Quality Control)



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Data File	LM35079.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 9:32:58 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

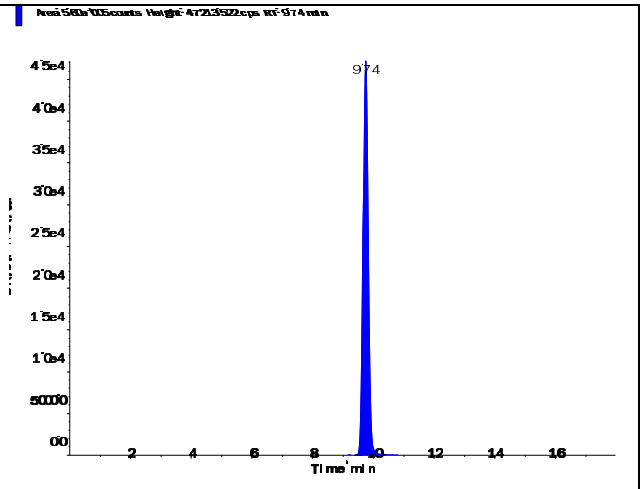
Sample Name	WG569899-05 CCV (1.0ug/L)	**Injection Vial**	3.00
Data File	LM35079.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 9:32:58 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Quality Control
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569899-05	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.600e+05	9.74	5.00	-

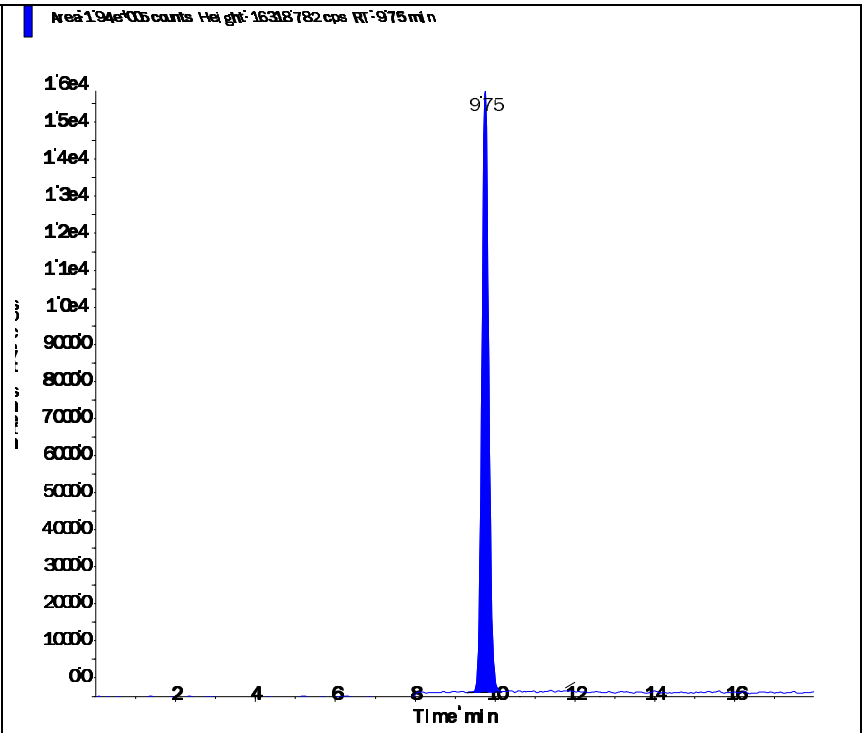
Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.940e+05	9.75	1.00	1.02
Perchlorate conf	6.500e+04	9.74	1.00	1.02

O18LP (Internal Standard)

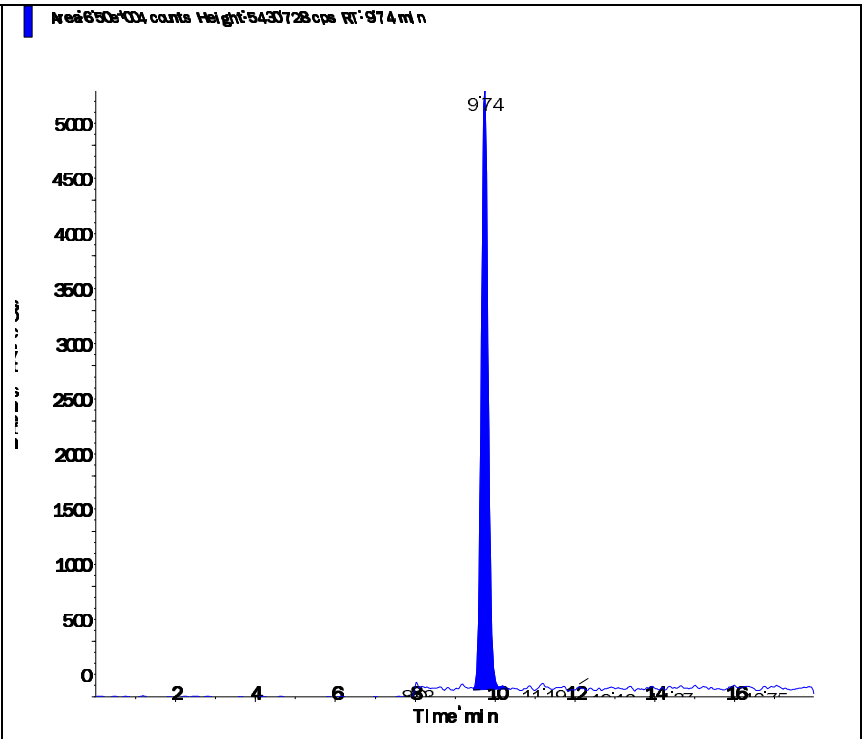
RT (Exp. RT): 9.74(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Quality Control)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.75 (9.84) min 1.02 ng/ml 0.346 (Quality Control)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.74 (9.84) min 1.02 ng/ml 0.116 (Quality Control)



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Data File	LM35084.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 11:07:40 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

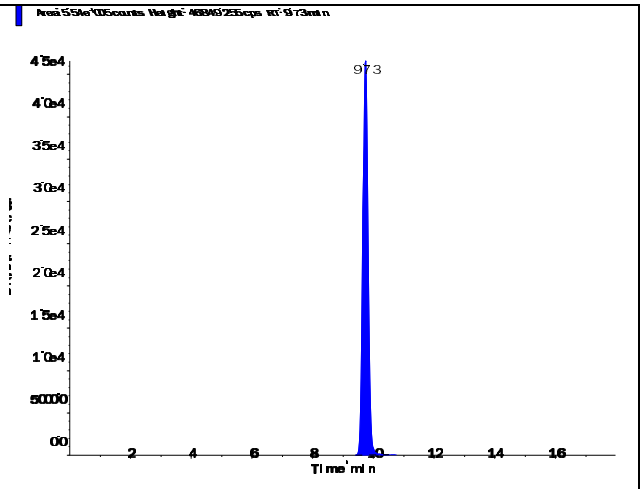
Sample Name	WG569899-07 CCV (1.0ug/L)	**Injection Vial**	3.00
Data File	LM35084.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 11:07:40 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Quality Control
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569899-07	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.540e+05	9.73	5.00	-

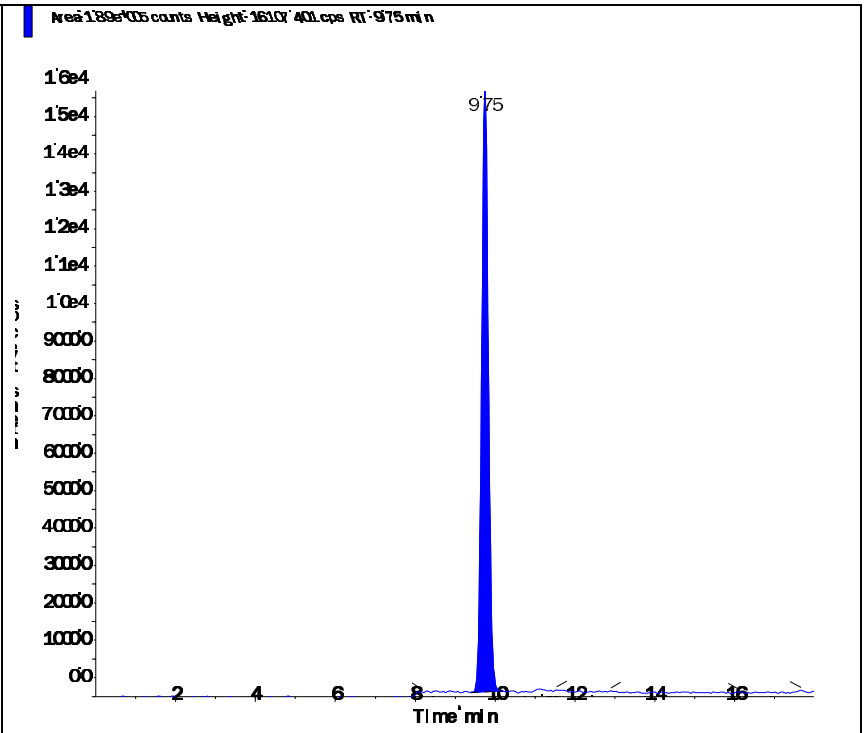
Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	1.890e+05	9.75	1.00	1.01
Perchlorate conf	6.100e+04	9.73	1.00	0.966

O18LP (Internal Standard)

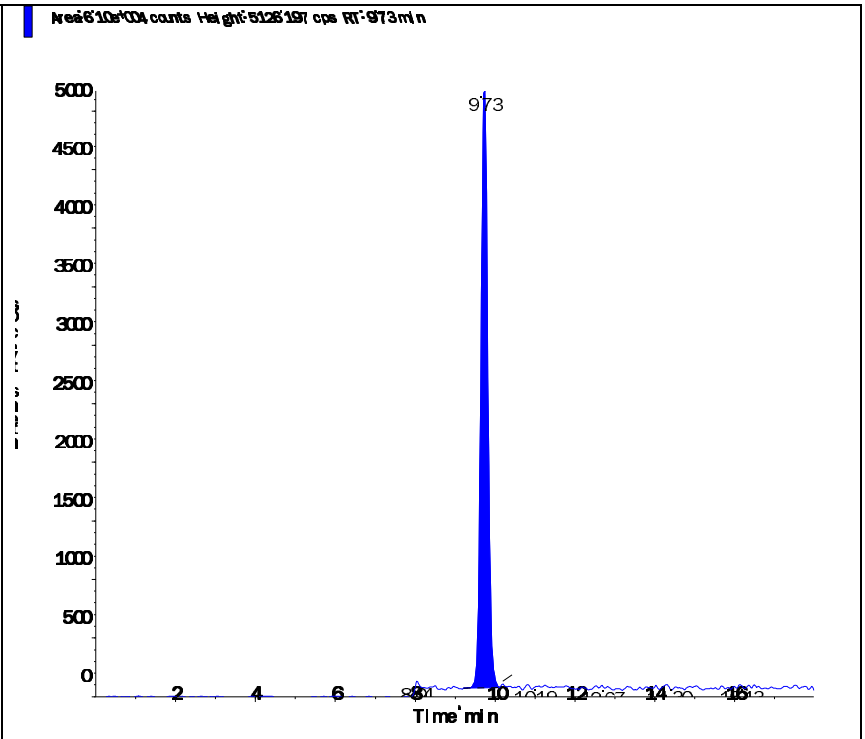
RT (Exp. RT): 9.73(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Quality Control)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.75 (9.84) min 1.01 ng/ml 0.342 (Quality Control)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.73 (9.84) min 0.966 ng/ml 0.11 (Quality Control)



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Data File	LM35055.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 1:58:27 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

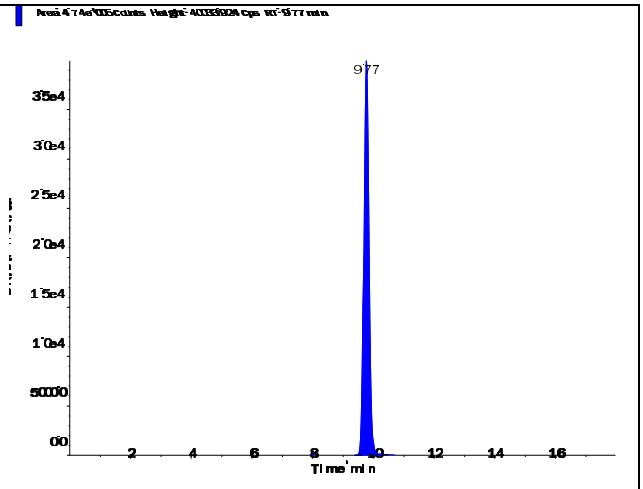
Sample Name	WG569894-10 MRL (0.2ug/L)	**Injection Vial**	2.00
Data File	LM35055.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 1:58:27 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-10	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.740e+05	9.77	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	3.360e+04	9.78	N/A	0.207
Perchlorate conf	1.130e+04	9.76	N/A	0.194

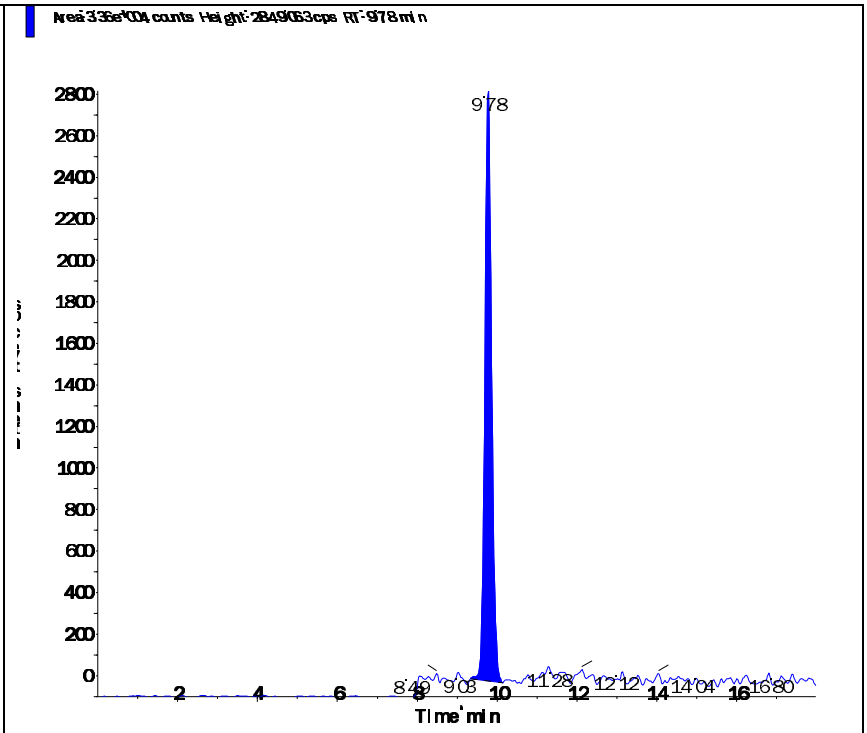
O18LP (Internal Standard)

RT (Exp. RT): 9.77(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



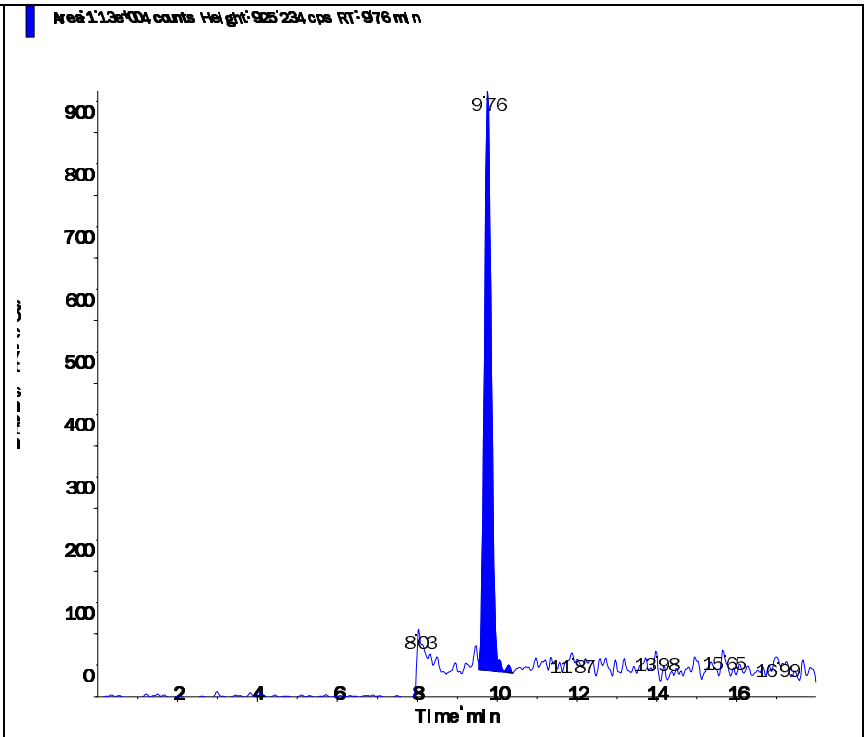
Perchlorate (98.8/83.3 amu)

RT (Exp. RT):	9.78 (9.84) min
Calculated conc:	0.207 ng/ml
Area Ratio:	0.071
Sample Type:	(Unknown)



Perchlorate conf (100.8/85.2 amu)

RT (Exp. RT):	9.76 (9.84) min
Calculated conc:	0.194 ng/ml
Area Ratio:	0.024
Sample Type:	(Unknown)



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Data File	LM35067.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 5:45:42 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

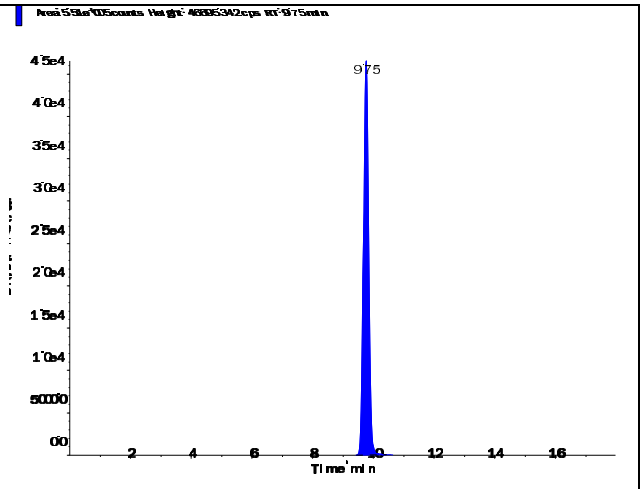
Sample Name	WG569894-11 MRL (0.2ug/L)	**Injection Vial**	2.00
Data File	LM35067.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 5:45:42 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-11	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.510e+05	9.75	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	3.870e+04	9.77	N/A	0.205
Perchlorate conf	1.430e+04	9.76	N/A	0.212

O18LP (Internal Standard)

RT (Exp. RT): 9.75(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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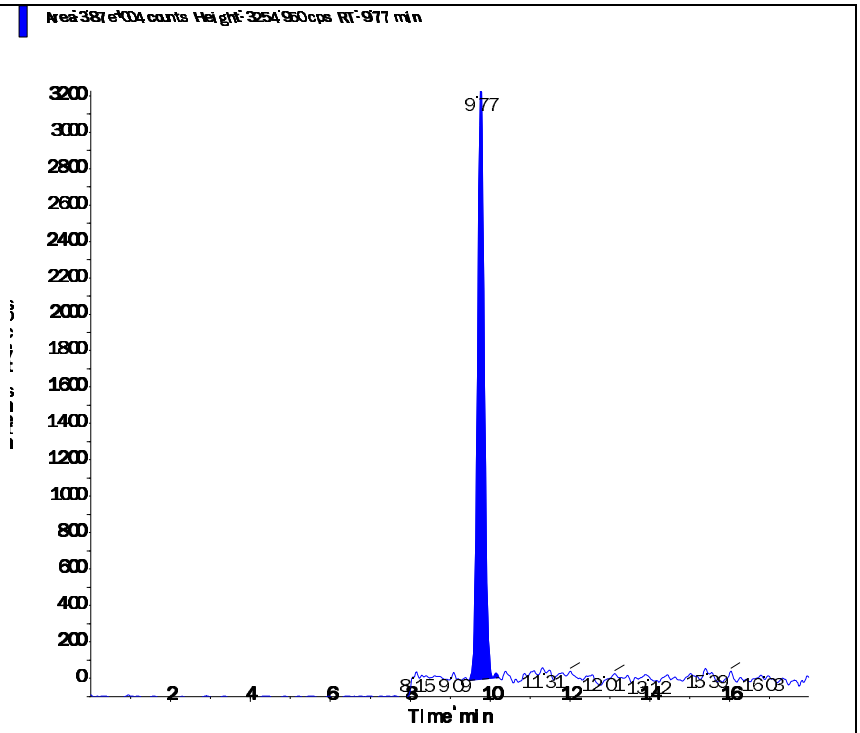
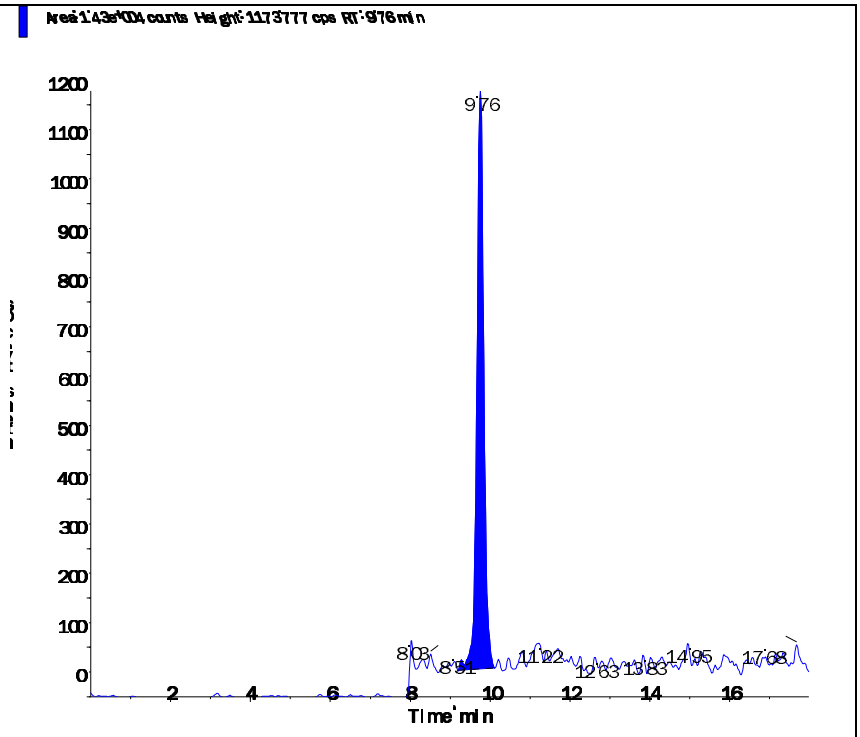
Perchlorate (98.8/83.3 amu)	
RT (Exp. RT):	9.77 (9.84) min
Calculated conc:	0.205 ng/ml
Area Ratio:	0.07
Sample Type:	(Unknown)



Perchlorate conf (100.8/85.2 amu)	
RT (Exp. RT):	9.76 (9.84) min
Calculated conc:	0.212 ng/ml
Area Ratio:	0.026
Sample Type:	(Unknown)



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Data File	LM35080.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 9:51:54 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

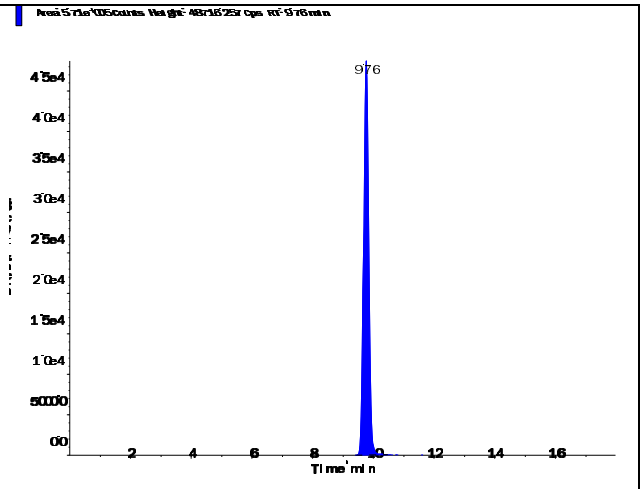
Sample Name	WG569894-12 MRL (0.2ug/L)	**Injection Vial**	2.00
Data File	LM35080.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 9:51:54 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-12	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.710e+05	9.76	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	4.080e+04	9.77	N/A	0.209
Perchlorate conf	1.410e+04	9.76	N/A	0.202

O18LP (Internal Standard)

RT (Exp. RT): 9.76(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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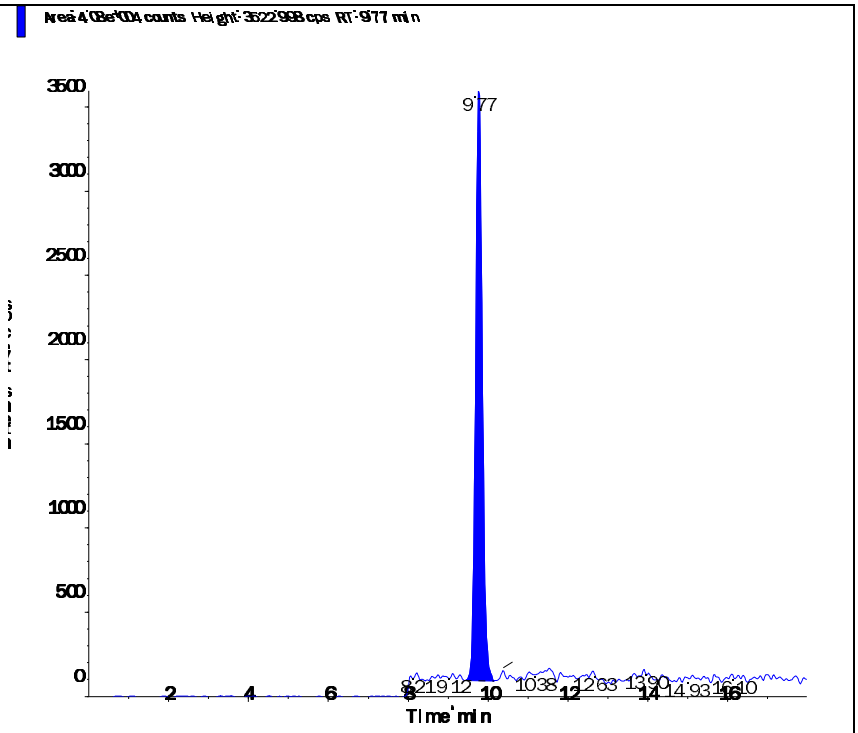
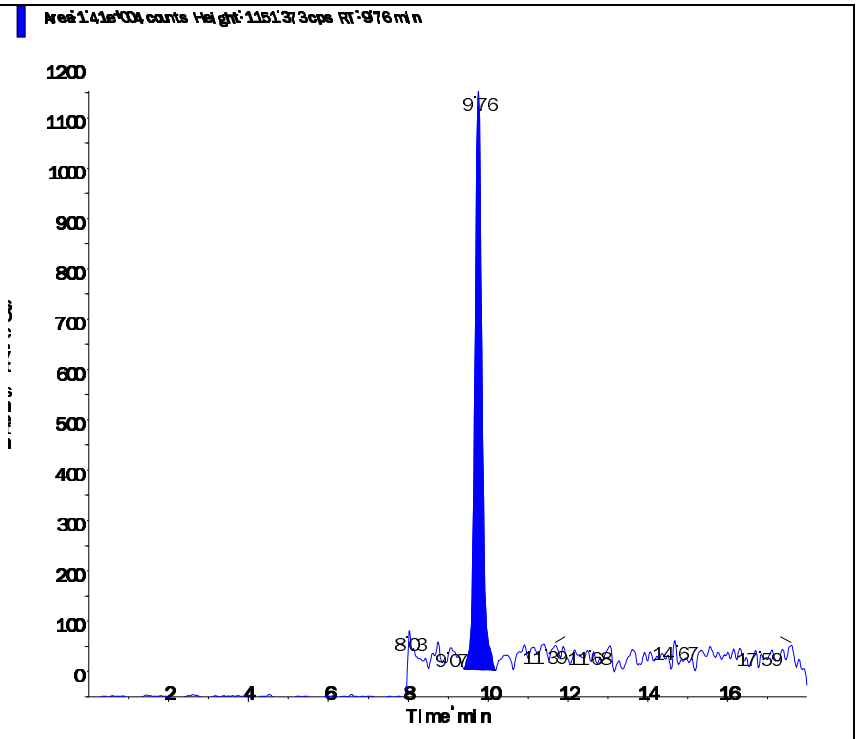
Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.77 (9.84) min 0.209 ng/ml 0.072 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.76 (9.84) min 0.202 ng/ml 0.025 (Unknown)



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Data File	LM35085.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 11:26:35 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

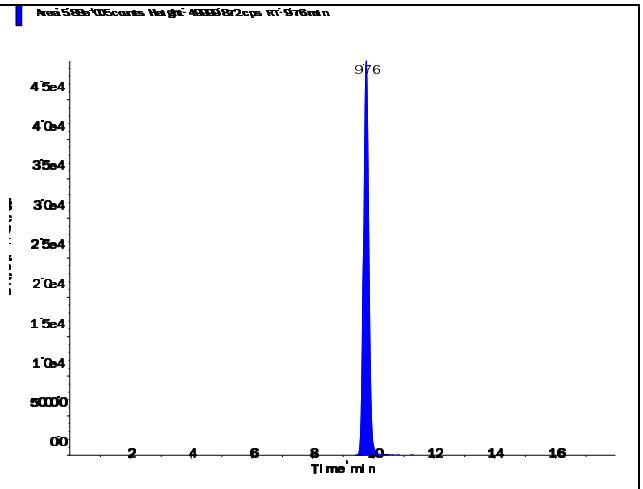
Sample Name	WG569894-13 MRL (0.2ug/L)	**Injection Vial**	2.00
Data File	LM35085.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 11:26:35 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-13	**Dilution Factor**	1.00
Sample Comment	1,1 STD75510	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.880e+05	9.76	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	3.960e+04	9.78	N/A	0.196
Perchlorate conf	1.370e+04	9.76	N/A	0.189

O18LP (Internal Standard)

RT (Exp. RT): 9.76(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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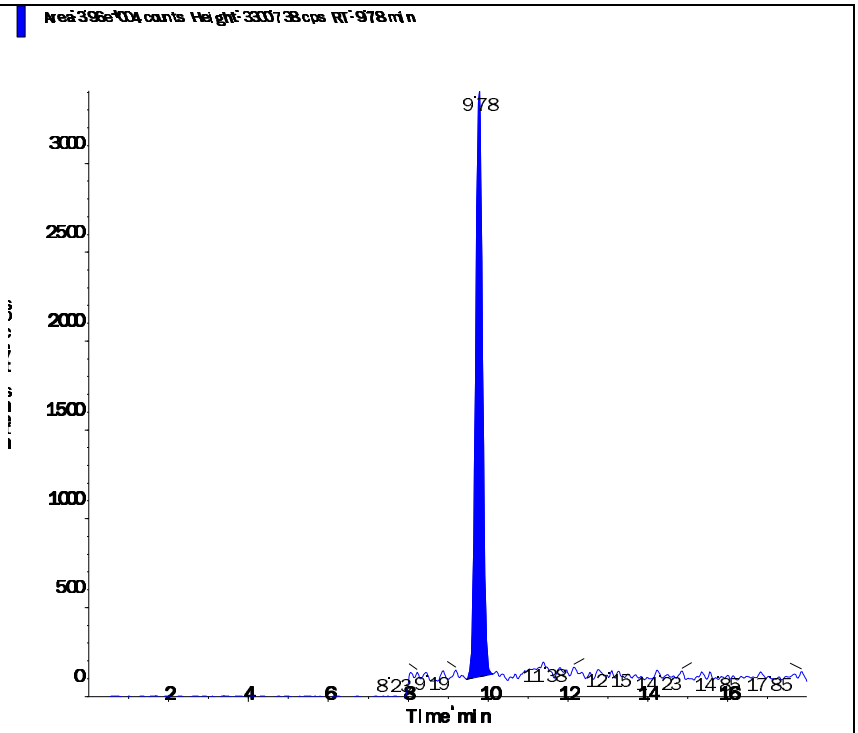
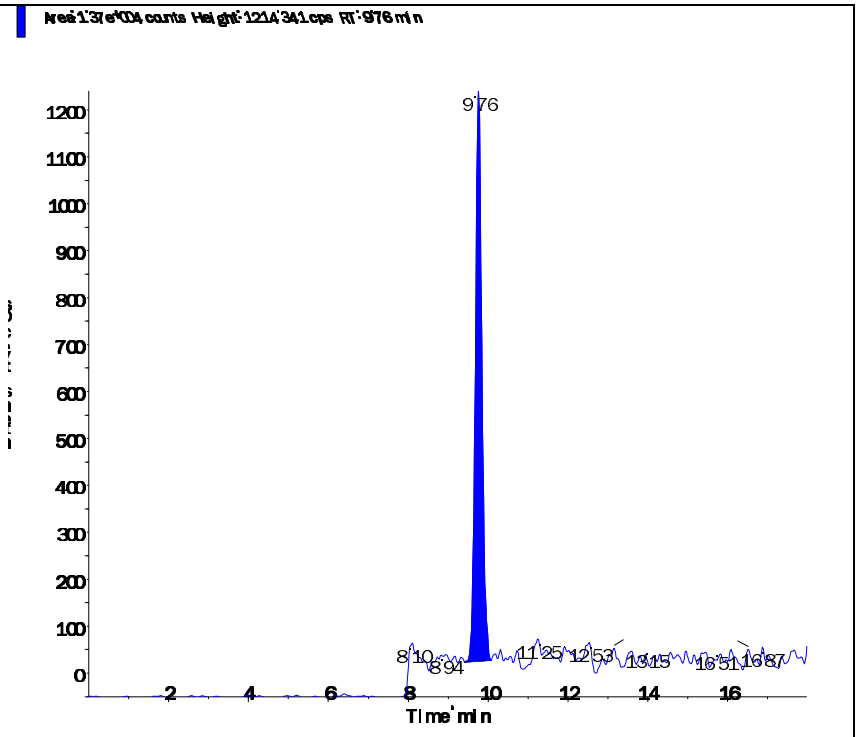
Perchlorate (98.8/83.3 amu)	
RT (Exp. RT):	9.78 (9.84) min
Calculated conc:	0.196 ng/ml
Area Ratio:	0.067
Sample Type:	(Unknown)



Perchlorate conf (100.8/85.2 amu)	
RT (Exp. RT):	9.76 (9.84) min
Calculated conc:	0.189 ng/ml
Area Ratio:	0.023
Sample Type:	(Unknown)



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Data File	LM35053.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 1:20:38 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

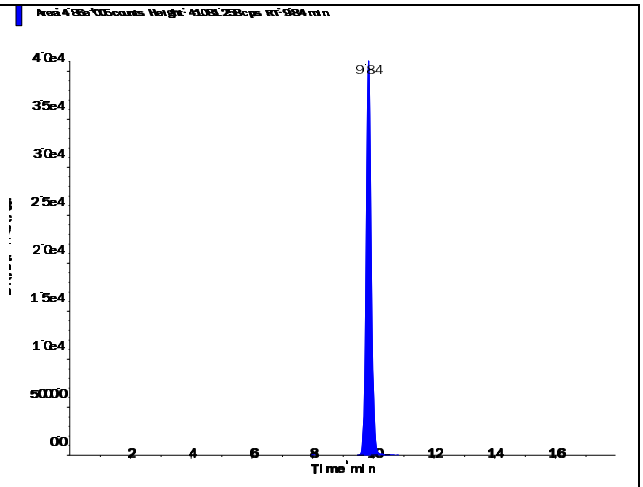
Sample Name	WG569899-01 CCB	**Injection Vial**	1.00
Data File	LM35053.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 1:20:38 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569899-01	**Dilution Factor**	1.00
Sample Comment	11.00	**Weight to Volume**	0.00

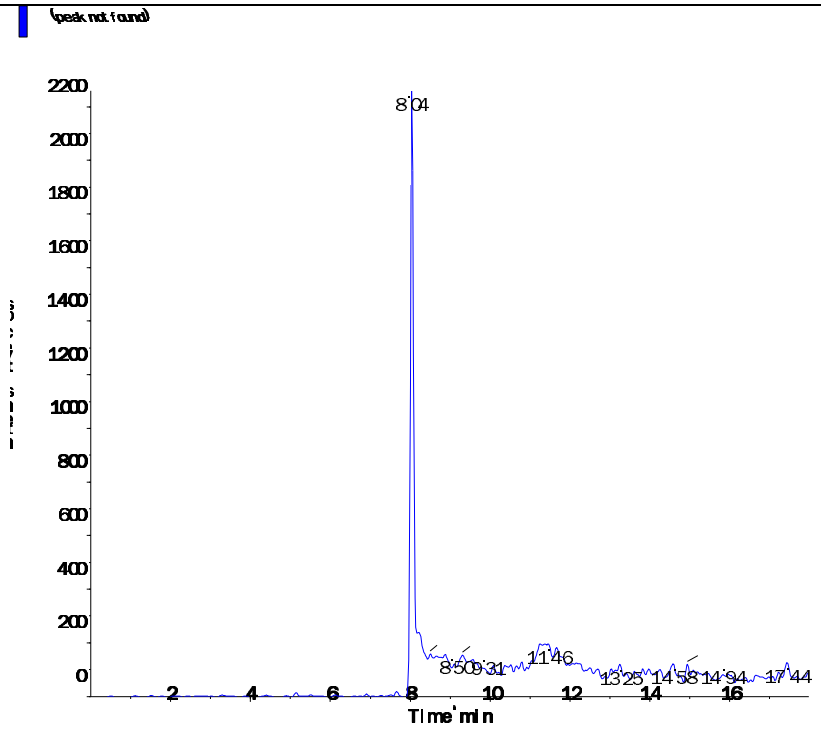
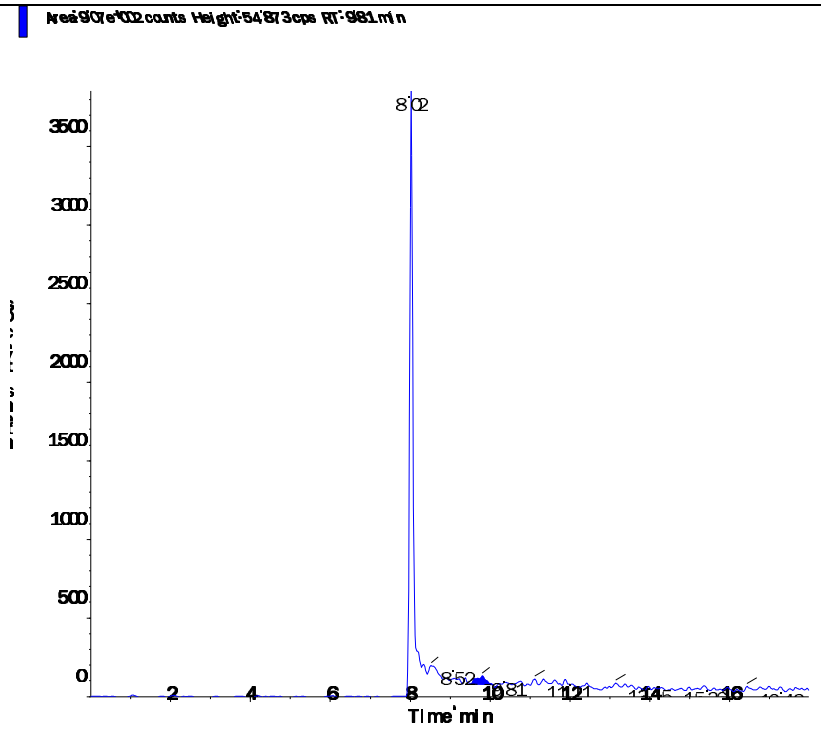
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.860e+05	9.84	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	0.000e+00	0.00	N/A	No Peak
Perchlorate conf	9.070e+02	9.81	N/A	< 0

O18LP (Internal Standard)

RT (Exp. RT): 9.84(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 0.00 (9.84) min Calculated conc: No Peak ng/ml Area Ratio: 0.00 Sample Type: (Unknown)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 9.81 (9.84) min Calculated conc: < 0 ng/ml Area Ratio: 0.002 Sample Type: (Unknown)	

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Data File	LM35068.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 6:04:41 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

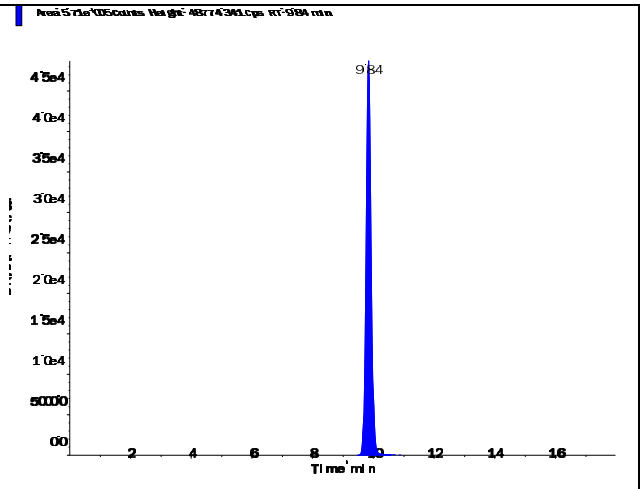
Sample Name	WG569899-04 CCB	**Injection Vial**	1.00
Data File	LM35068.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 6:04:41 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569899-04	**Dilution Factor**	1.00
Sample Comment	11.00	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	5.710e+05	9.84	5.00	-

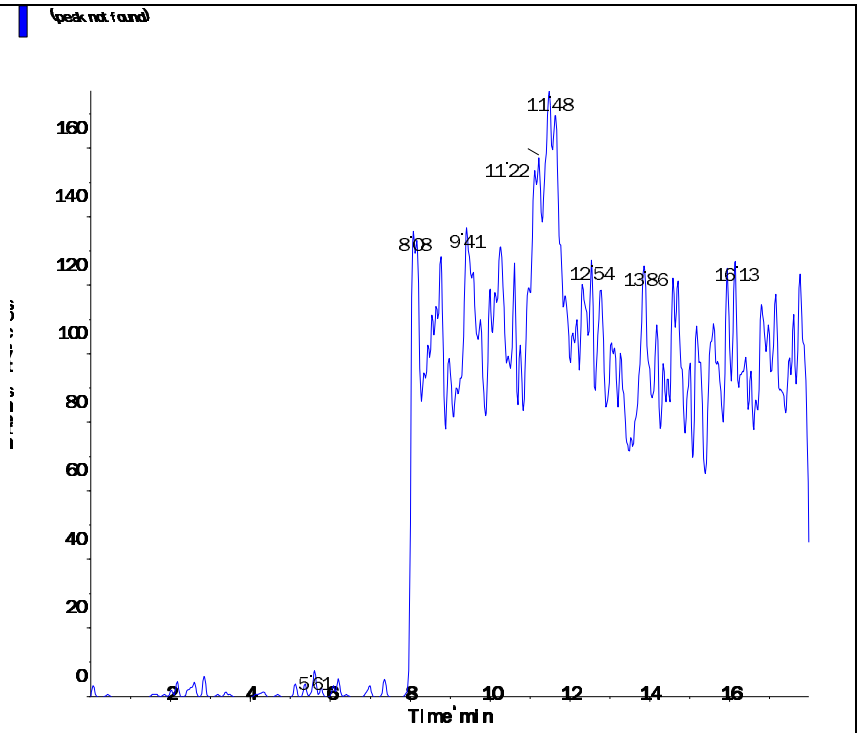
Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	0.000e+00	0.00	N/A	No Peak
Perchlorate conf	0.000e+00	0.00	N/A	No Peak

O18LP (Internal Standard)

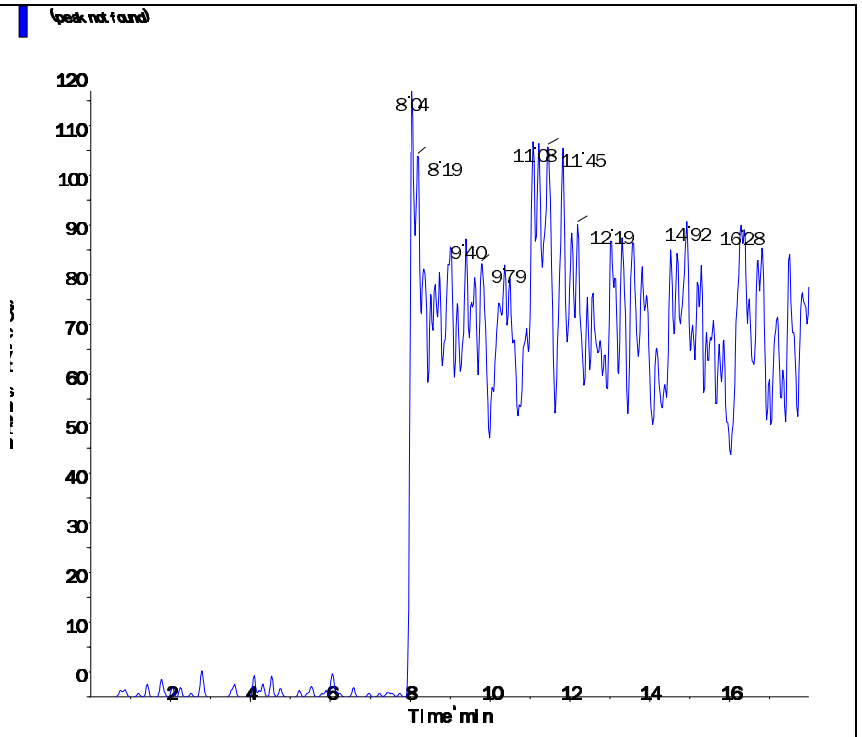
RT (Exp. RT): 9.84(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	0.00 (9.84) min No Peak ng/ml 0.00 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	0.00 (9.84) min No Peak ng/ml 0.00 (Unknown)



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Data File	LM35081.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 10:10:49 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

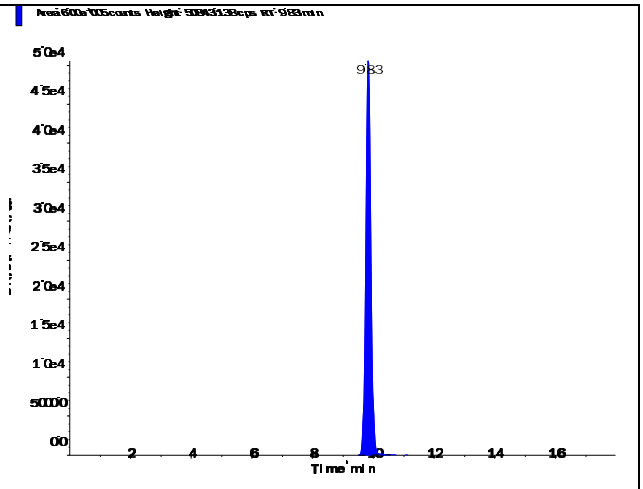
Sample Name	WG569899-06 CCB	**Injection Vial**	1.00
Data File	LM35081.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 10:10:49 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569899-06	**Dilution Factor**	1.00
Sample Comment	11.00	**Weight to Volume**	0.00

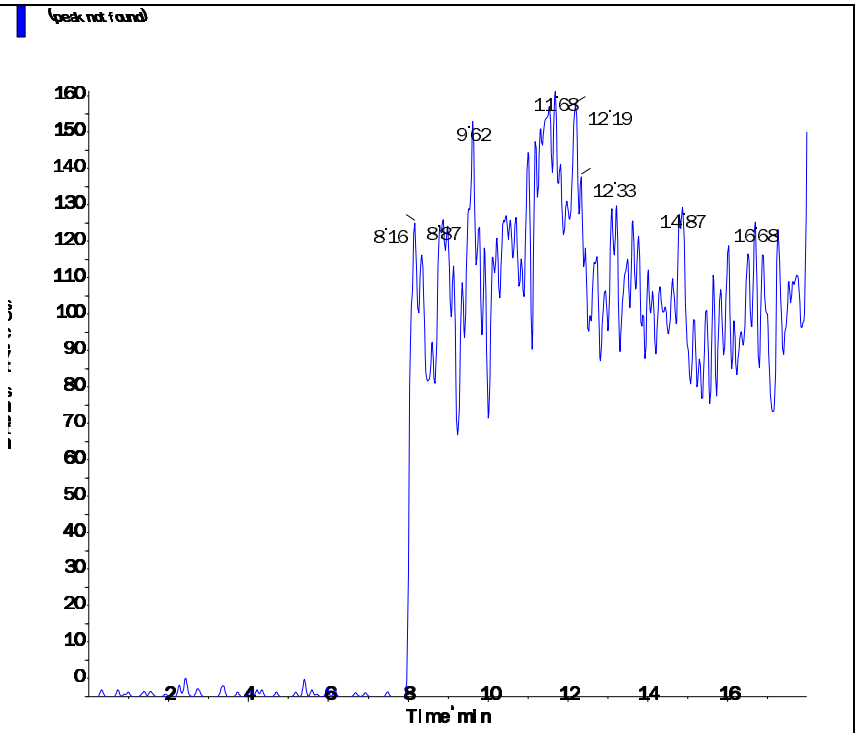
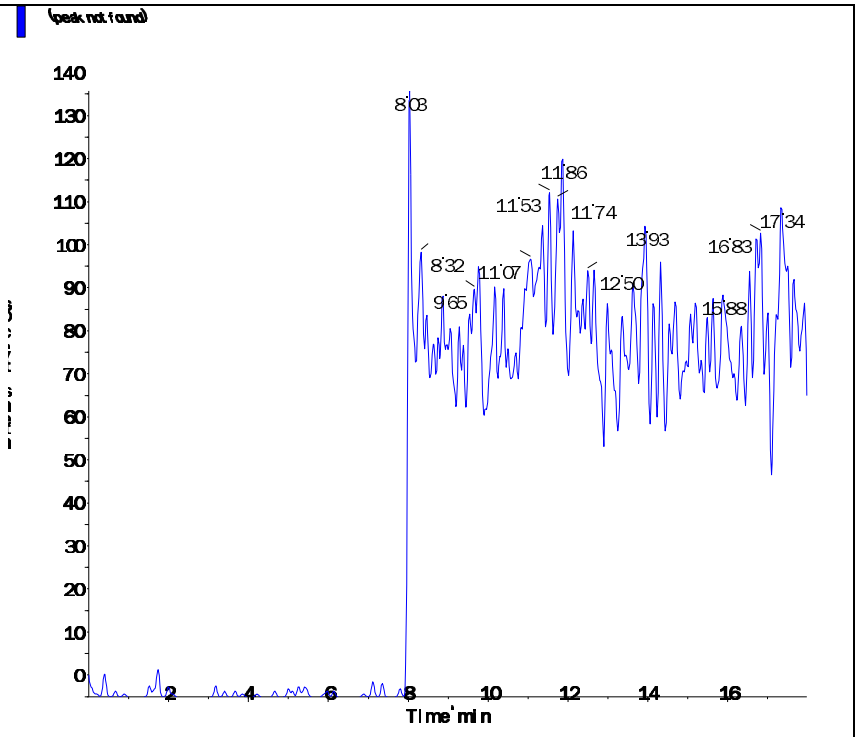
Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	6.000e+05	9.83	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	0.000e+00	0.00	N/A	No Peak
Perchlorate conf	0.000e+00	0.00	N/A	No Peak

O18LP (Internal Standard)

RT (Exp. RT): 9.83(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): 0.00 (9.84) min Calculated conc: No Peak ng/ml Area Ratio: 0.00 Sample Type: (Unknown)	
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): 0.00 (9.84) min Calculated conc: No Peak ng/ml Area Ratio: 0.00 Sample Type: (Unknown)	

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Data File	LM35086.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 11:45:32 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

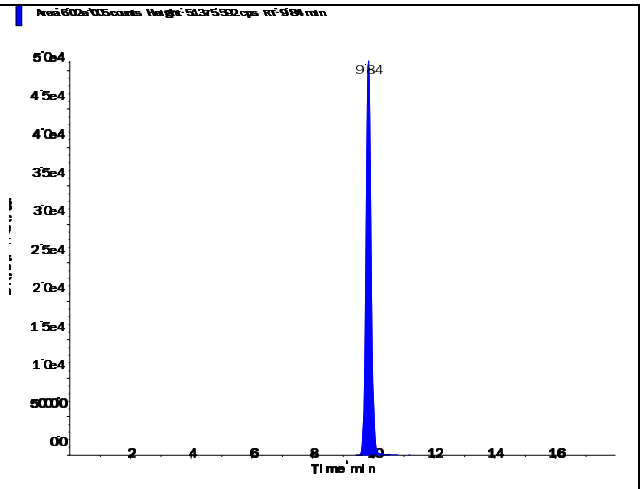
Sample Name	WG569899-08 CCB	**Injection Vial**	1.00
Data File	LM35086.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 11:45:32 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569899-08	**Dilution Factor**	1.00
Sample Comment	11.00	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	6.020e+05	9.84	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	0.000e+00	0.00	N/A	No Peak
Perchlorate conf	3.580e+02	9.85	N/A	< 0

O18LP (Internal Standard)

RT (Exp. RT): 9.84(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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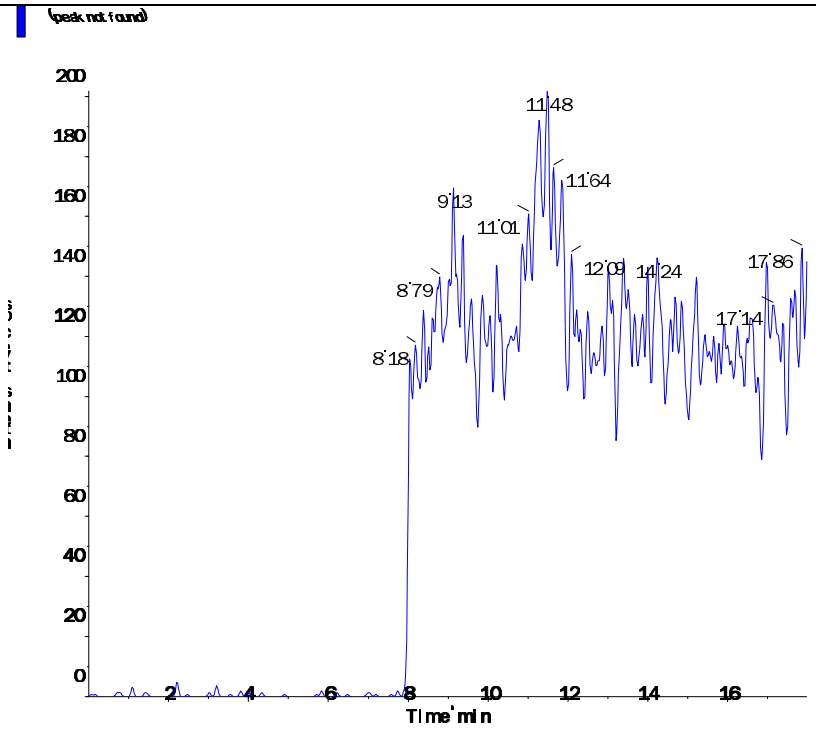
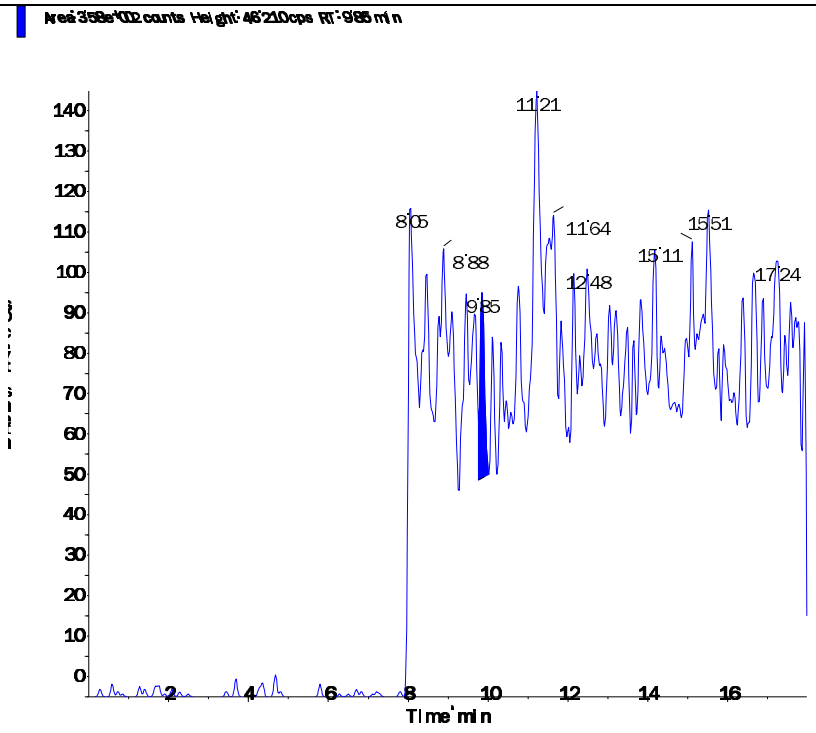
Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 0.00 (9.84) min No Peak ng/ml 0.00 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 9.85 (9.84) min < 0 ng/ml 0.001 (Unknown)



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Data File	LM35056.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 2:17:23 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

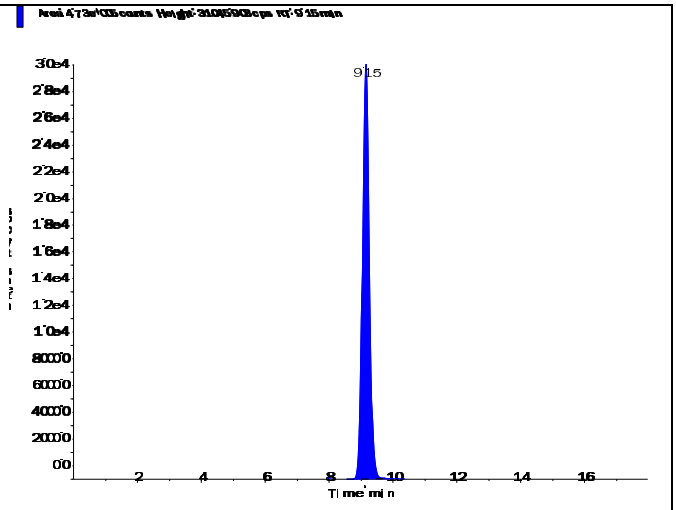
Sample Name	WG569894-01 MCT (0.2ug/L)	**Injection Vial**	4.00
Data File	LM35056.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 2:17:23 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-01	**Dilution Factor**	1.00
Sample Comment	1,1 STD75512	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.730e+05	9.15	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	3.090e+04	9.16	N/A	0.19
Perchlorate conf	1.140e+04	9.15	N/A	0.196

O18LP (Internal Standard)

RT (Exp. RT): 9.15(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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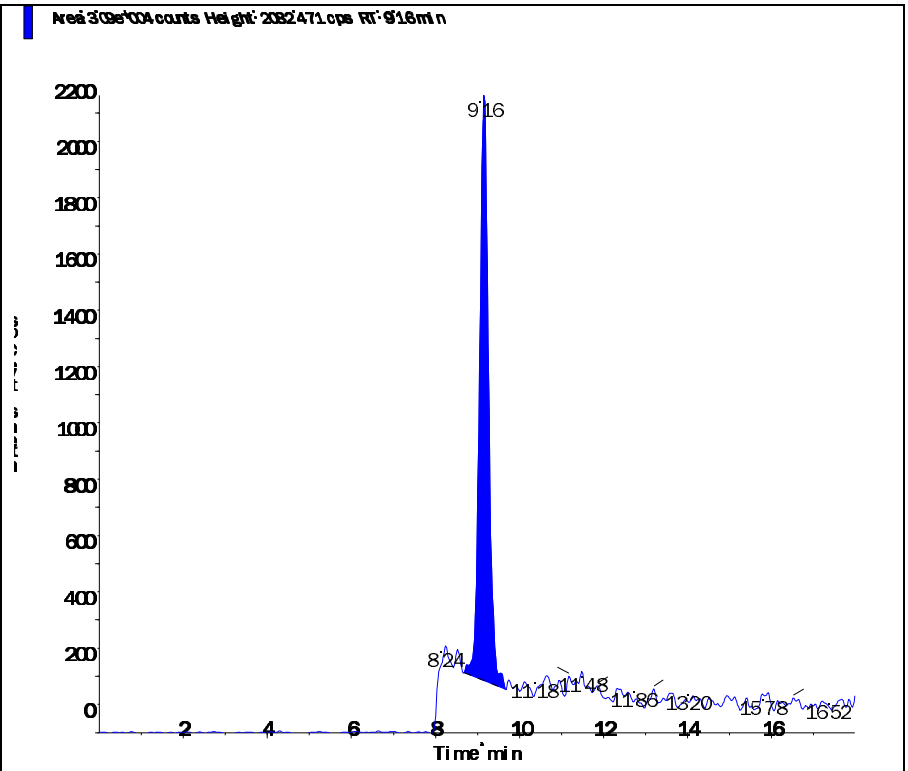
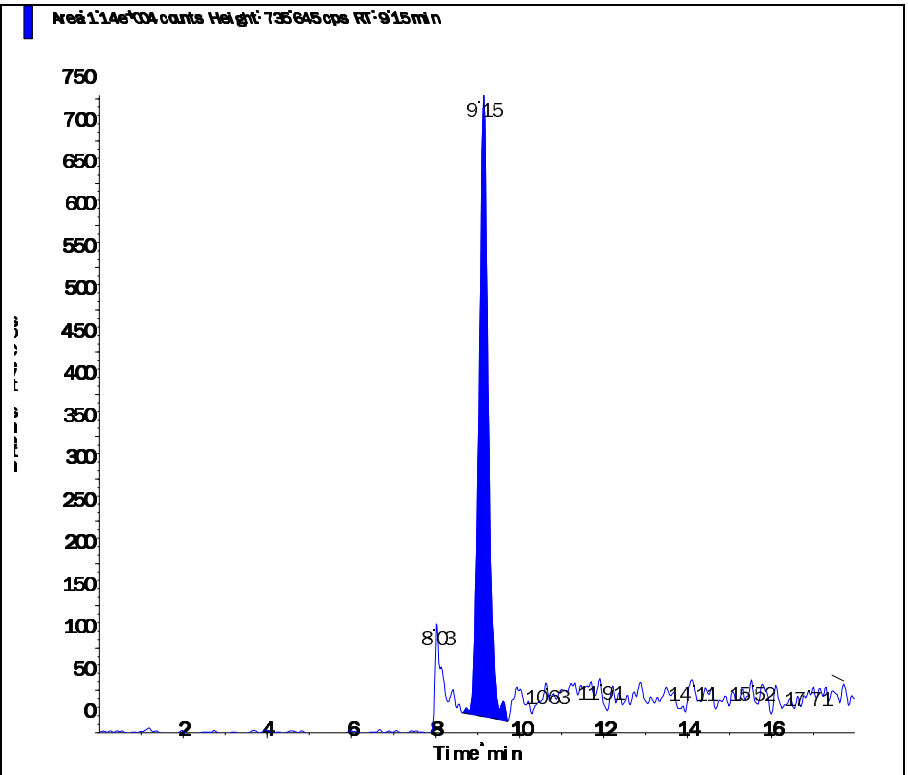
Perchlorate (98.8/83.3 amu)	
RT (Exp. RT): 9.16 (9.84) min Calculated conc: 0.19 ng/ml Area Ratio: 0.065 Sample Type: (Unknown)	
Perchlorate conf (100.8/85.2 amu)	
RT (Exp. RT): 9.15 (9.84) min Calculated conc: 0.196 ng/ml Area Ratio: 0.024 Sample Type: (Unknown)	

2.2.1.5 Raw QC Data

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Data File	LM35057.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 2:36:18 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

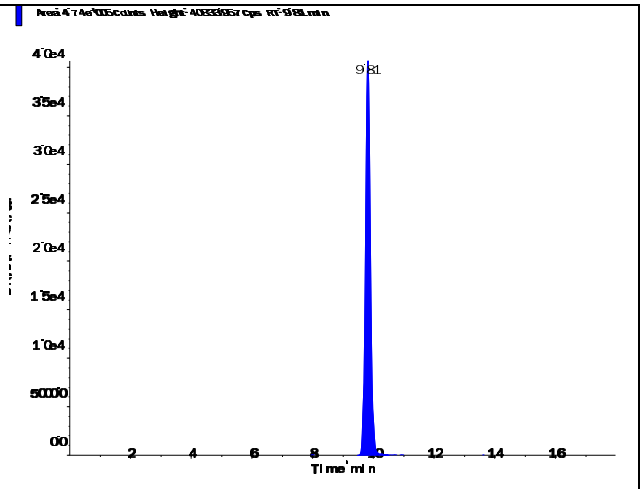
Sample Name	WG569894-02 BLANK	**Injection Vial**	5.00
Data File	LM35057.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 2:36:18 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-02	**Dilution Factor**	1.00
Sample Comment	11.00	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.740e+05	9.81	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	0.000e+00	0.00	N/A	No Peak
Perchlorate conf	0.000e+00	0.00	N/A	No Peak

O18LP (Internal Standard)

RT (Exp. RT): 9.81(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



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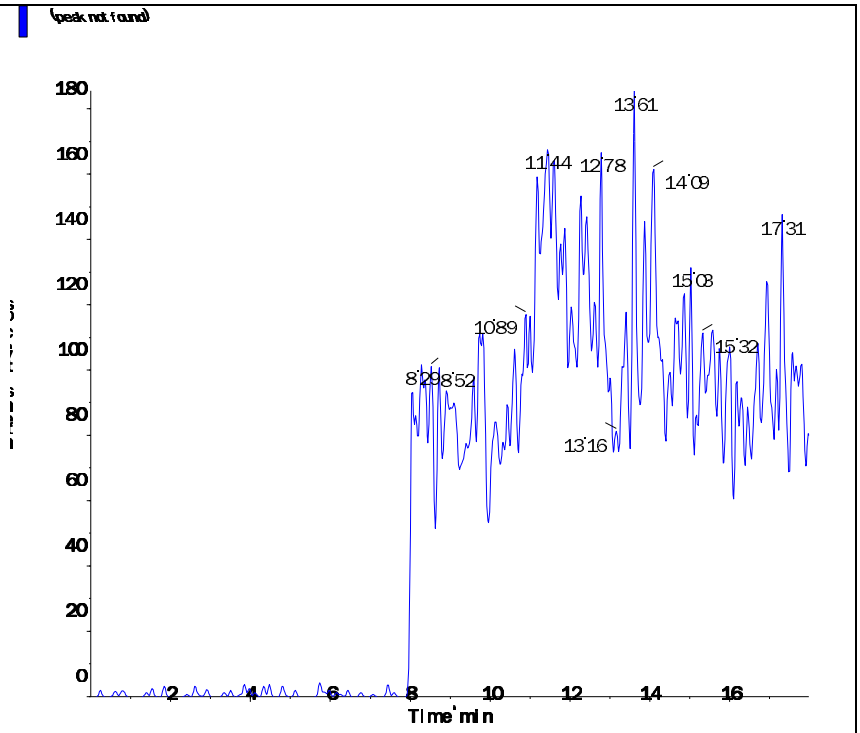
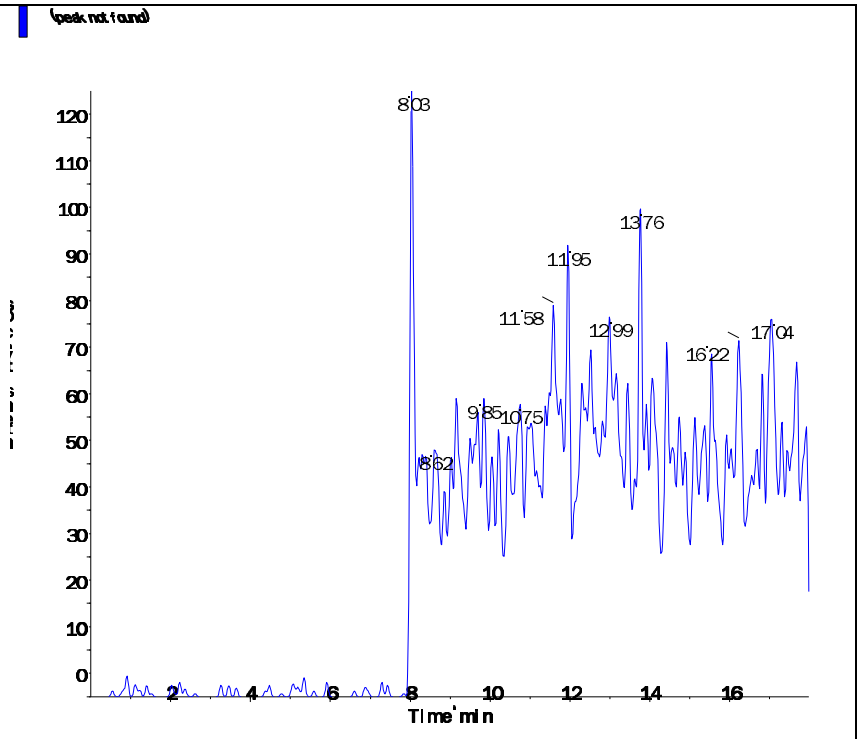
Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 0.00 (9.84) min No Peak ng/ml 0.00 (Unknown)



Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	 0.00 (9.84) min No Peak ng/ml 0.00 (Unknown)



Applied Biosystems | MDS SCIEX

Created with Analyst Reporter
Printed: 5/24/2016 10:03 AM

Data File	LM35058.wiff	**Result Table**	052316_JWR.rdb
Acquisition Date	5/23/2016 2:55:14 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Instrument Name**	API 4000
Project	Perchlorate\2009_07_22		

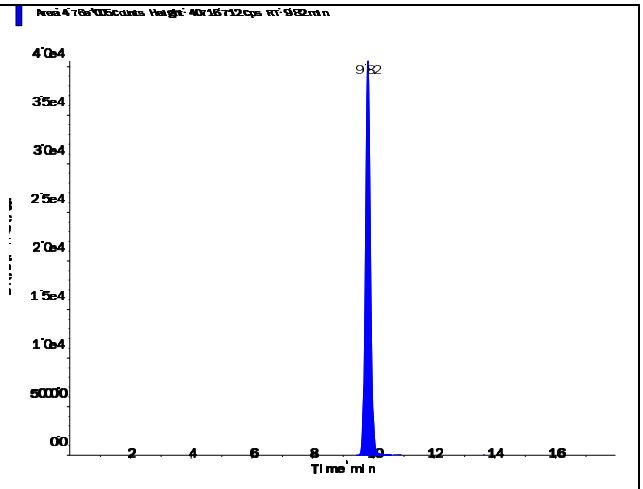
Sample Name	WG569894-03 LCS (0.2ug/L)	**Injection Vial**	6.00
Data File	LM35058.wiff	**Injection Volume**	10.00
Acquisition Date	5/23/2016 2:55:14 PM	**Algorithm Used**	Analyst Classic
Acquisition Method	062911.dam	**Sample Type**	Unknown
Instrument Name	API 4000	**Result Table**	052316_JWR.rdb
Sample ID	WG569894-03	**Dilution Factor**	1.00
Sample Comment	1,1 STD75512	**Weight to Volume**	0.00

Internal Standard	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
O18LP	4.760e+05	9.82	5.00	-

Target Analyte	Area (cps)	RT (min)	Target conc. (ug/L)	Calc. Conc. (ug/L)
Perchlorate	3.300e+04	9.83	N/A	0.202
Perchlorate conf	1.110e+04	9.81	N/A	0.189

O18LP (Internal Standard)

RT (Exp. RT): 9.82(9.84) min
Concentration: 5.00 ug/L
Sample Type: (Unknown)



Perchlorate (98.8/83.3 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.83 (9.84) min 0.202 ng/ml 0.069 (Unknown)
Perchlorate conf (100.8/85.2 amu) RT (Exp. RT): Calculated conc: Area Ratio: Sample Type:	9.81 (9.84) min 0.189 ng/ml 0.023 (Unknown)

3.0 Attachments

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
May 26, 2016

001 – BIO-CHEM TESTING WVDEP 220	002 – REIC Consultants, Inc. WVDEP 060
003 – Sturm Environmental	004 – MICROBAC PITTSBURGH
005 – ES LABORATORIES	006 – ALCOSAN LABORATORIES
007 – ALS LABORATORIES	008 – BENCHMARK LABORATORIES
010 – MICROBAC CHICAGOLAND	AC – AMBER R. CARMICHAEL
ADC – ANTHONY D. CANTER	ADG – APRIL D. GREENE
AED – ALLEN E. DAVIS	ALS – ADRIANE L. STEED
AMA – ALEXANDRA M. ALFRED	AWE – ANDREW W. ESSIG
AZH – AFTER HOURS	BJO – BRIAN J. OGDEN
BKT – BRENDAN TORRENCE	BLG – BRENDA L. GREENWALT
BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES
CJR – COURTNEY J. REXROAD	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS
CPD – CHAD P. DAVIS	CSH – CHRIS S. HILL
DAK – DEAN A. KETELSEN	DCM – DAVID C. MERCKLE
DEV – DAVID E. VANDENBERG	DIH – DEANNA I. HESSON
DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE
DLW – DIANA L. WRIGHT	DSM – DAVID S. MOSSOR
ECL – ERIC C. LAWSON	EMW – ERIC M. WILKEN
ENY – EMILY N. YOAK	ERP – ERIN R. PORTER
FJB – FRANCES J. BOLDEN	JBK – JEREMY B. KINNEY
JDH – JUSTIN D. HESSON	JDS – JARED D. SMITH
JJS – JOHN J. STE MARIE	JKP – JACQUELINE K. PARSONS
JLD – JESSICA L. DELONG	JLL – JOHN L. LENT
JMW – JEANA M. WHITE	JTP – JOSHUA T. PEMBERTON
JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KAJ – KELLIE A. JOHNSON
KAT – KATHY A. TUCKER	KDW – KATHRYN D. WELCH
KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KKB – KERRI K. BUCK	KRA – KATHY R. ALBERTSON
KRB – KAELY R. BECKER	KRP – KATHY R. PARSONS
LEC – LAURA E. CARPENTER	LKN – LINDA K. NEDEFF
LLS – LARRY L. STEPHENS	LSB – LESLIE S. BUCINA
MAP – MARLA A. PORTER	MBK – MORGAN B. KNOWLTON
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN
MES – MARY E. SCHILLING	MLB – MEGAN L. BACHE
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR
MSW – MATT S. WILSON	PDM – PIERCE D. MORRIS
PIT – MICROBAC WARRENDALE	PRL – PAIGE R. LAMB
PSW – PEGGY S. WEBB	QX – QIN XU
RAH – ROY A. HALSTEAD	REK – BOB E. KYER
RLB – BOB BUCHANAN	RM – RAYMOND MALEKE
RNP – RICK N. PETTY	RST – ROBIN S. TURNER
SAV – SARAH A. VANDENBERG	SCB – SARAH C. BOGOLIN
SDC – SHALYN D. CONLEY	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TB – TODD BOYLE
TGF – TIM G. FELTON	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER
WJB – WILL J. BEASLEY	WRR – WESLEY R. RICHARDS
WTD – WADE T. DELONG	XXX – UNAVAILABLE OR SUBCONTRACT

Microbac Laboratories Inc.
List of Valid Qualifiers
May 26, 2016

Qualkey: DOD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Greater than
A	See the report narrative
B	The reported result is associated with a contaminated method blank.
B,H1	Analyte present in method blank. Sample analysis performed past holding time.
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
CT1	Cooler temperature at sample reciept exceeded regulatory limit.
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
E,CT1	Estimated results. The cooler temperature at receipt exceeded regulatory guidelines for requested testing.
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
F,CT1	Estimated value; the analyte concentration was less than the RL/LOQ. The cooler temperature at receipt exceeded regula
FL	Free Liquid
FP1	Did not ignite.
H1	Sample analysis performed past holding time.
H1,CT1	Sample analysis performed past holding time. The cooler temperature at receipt exceeded regulatory guidelines for reque
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration; sample matrix interference.
J	Estimated value ; the analyte concentration was greater than the highest standard
J	Estimated value ; the analyte concentration was less than the LOQ.
J	The reported result is an estimated value.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,CT1	Estimated value ; the analyte concentration was less than the LOQ. Cooler temperature at sample reciept exceeded regu
J,H1	Estimated value ; the analyte concentration was less than the LOQ. Sample analysis performed past holding time.
J,H1	The reported result is an estimated value. Sample was analyzed past holding time.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
JB	The reported result is an estimated value. The reported result is also associated with a contaminated method blank.
JQ	The reported result is an estimated value and one or more quality control criteria failed. See narrative.
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Nontarget analyte; the analyte is a tentativlely identified compound (TIC) by GC/MS
NA	Not applicable
ND	Not detected at or above the reporting limit (RL)
ND, B	Not detected at or above the reporting limit (RL). Analyte present in method blank.
ND, CT1	Analyte was not detected. The concentration is below the reported LOD. The cooler temperature at receipt exceeded reg
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
ND,H1	Not detected; Sample analysis performed past holding time.
ND,H1,CT1	Not detected; Sample analysis performed past holding time. The cooler temperature at receipt exceeded regulatory guide
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
Q,H1	One or more quality control criteria failed. Sample analyzed past holding time. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
T5	Laboratory not licensed for this parameter
TIC	Library Search Compound
TNTC	Too numerous to count

Microbac Laboratories Inc.
List of Valid Qualifiers
May 26, 2016

Qualkey: DOD

TNTC, B	Too numerous to count. Analyte present in method blank.
TNTC,CT1	Too numerous to count. The cooler temperature at receipt exceeded regulatory guidelines for requested testing.
TNTC,H1	Too numerous to count. Sample analysis performed past holding time.
U	Analyte was not detected. The concentration is below the reported LOD.
U,CT1	Analyte was not detected. The concentration is below the reported LOD. Cooler temperature at sample reciept exceeded
U,H1	Not detected; Sample analysis performed past holding time.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

AECOM

Chain of Custody Record

COC Number:

Laboratory: Microbac POC: Stephanie Mossburg	Project Manager: Debra Richmann	Mail to: Linda Raabe
Address: 158 Starlite Drive	Phone/Fax Number: 210-296-2000	112 East Pecan STE. 400
Marietta, OH 45750	Sampler (print): Scott Beesinger	San Antonio, TX 78205
Phone: 1-800-373-4071		210-296-2000
Client: AECOM	Signature: Scott Beesinger	Fed Ex Airbill No:
Address: 112 East Pecan Ste. 400		
San Antonio, TX 78205	pH:	Program:
Turn Around Time: STANDARD		
Project Name/Location: Longhorn		
Project Number: 60256135.0002GA		

Site Name	Sample ID/Location ID	SBD	SED	Date	Time	Comp	Grab	Matrix	Number of Containers	VOC	Perchlorate	SA CODE	Cooler ID	LOT CONTROL NUMBERS ABLOT	EBLOT	TBLOT
SITE 50	50WW07-051116			5/11/16	0750		✓	W	3	✓	✓					
	50WW07MS-051116			5/11/16	0750		✓	W	3	✓	✓					
	50WW07MSD-051116			5/11/16	0750		✓	W	3	✓	✓					
	50WW19-051116			5/11/16	0910		✓	W	3	✓	✓					
	50WW17-051116			5/11/16	1015		✓	W	3	✓	✓					
	50WW28-051116			5/11/16	1120		✓	W	3	✓	✓					
	50WW20-051116			5/11/16	1325		✓	W	3	✓	✓					
	50WW05-051116			5/11/16	1425		✓	W	3	✓	✓					
	50WW05FD-051116			5/11/16	1425		✓	W	3	✓	✓					
	50WW16-051116			5/11/16	1525		✓	W	3	✓	✓					
	50WW01-051216			5/12/16	0720		✓	W	3	✓	✓					
	50WW09-051216			5/12/16	0825		✓	W	3	✓	✓					
	50WW10-051216			5/12/16	0925		✓	W	3	✓	✓					
	50WW10FD-051216			5/12/16	0925		✓	W	3	✓	✓					

ERPIMS REQUIRED FIELDS

Comments: **STANDARD TAT**

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Received by: (Signature)	Date	Time	Relinquished by: (Signature)
Scott Beesinger	5/12/16	163	Microbac OVD Received: 05/13/2016 10:25 By: BRENDA GREGORY 221000085891				
Relinquished by: (Signature)	Date	Tin				Time	Remarks:

Brenda Gregory

•Homogenize all composite samples prior to analysis

...iect Manager, Pink QA/QC Manager

AECOM

Chain of Custody Record

COC Number:

Laboratory: Microbac POC: Stephanie Mossburg	Project Manager: Debra Richmann	Mail to: Linda Raabe
Address: 158 Starlite Drive	Phone/Fax Number: 210-296-2000	112 East Pecan STE. 400
Marietta, OH 45750	Sampler (print): Scott Beesinger	San Antonio, TX 78205
Phone: 1-800-373-4071		210-296-2000
Client: AECOM	Signature: Scott Beesinger	Fed Ex Airbill No:
Address: 112 East Pecan Ste. 400		
San Antonio, TX 78205	pH:	Program:
Turn Around Time: STANDARD		
Project Name/Location: Longhorn		
Project Number: 60256135.0002GA		

Site Name	Sample ID/Location ID	SBD	SED	Date	Time	Comp*	Grab	Matrix	Number of Containers	VOC	Perchlorate	SA CODE	Cooler ID	LOT CONTROL NUMBERS ABLOT	EBLOT	TBLOT
SITE 50	50WW15-051216			5/12/16	1030		✓	W	4	✓	✓					
	50WW27-051216			5/12/16	1340		✓	W	4	✓	✓					
	50WW27MS-051216			5/12/16	1340		✓	W	4	✓	✓					
	50WW27MSD-051216			5/12/16	1340		✓	W	4	✓	✓					
	50WW21-051216			5/12/16	1440		✓	W	4	✓	✓					
	50WW21FD-051216			5/12/16	1440		✓	W	4	✓	✓					
	50WW26-051216			5/12/16	1535		✓	W	4	✓	✓					
	TRIP BLANK			5/12/16			✓	W	2	✓						

ERPIMS REQUIRED FIELDS

Comments: **STANDARD TAT**

Relinquished by: (Signature) Scott Beesinger	Date 5/12/16	Time 1630	Received by: (Signature)	Received by: (Signature)	Date	Time	Relinquished by: (Signature)
Relinquished by: (Signature)	Date	Time	Rec (Sig			Time	Remarks:

Microbac OVD
Received: 05/13/2016 10:25
By: BRENDA GREGORY 221000085891
Brenda Gregory

*Homogenize all composite samples prior to analysis

nager, Pink QA/QC Manager

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-01	744072	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Samplenum	Container ID	Products
L16050763-01	744073	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-02	744074	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Samplenum	Container ID	Products
L16050763-02	744075	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-03	744076	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Samplenum	Container ID	Products
L16050763-03	744077	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-04	744078	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:08	CLS	AWE	

Samplenum	Container ID	Products
L16050763-04	744079	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-05	744080	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-05	744081	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

Samplenum	Container ID	Products
L16050763-06	744082	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-06	744083	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

Samplenum	Container ID	Products
L16050763-07	744084	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	ORG4	13-MAY-2016 13:10	CLS		
2	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-07	744085	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-08	744086	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-08	744087	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-09	744088	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-09	744089	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-10	744090	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:08	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-10	744091	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-11	744092	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-11	744093	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-12	744094	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	ORG4	13-MAY-2016 13:10	CLS		
2	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-12	744095	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:05	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-13	744096	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	ORG4	13-MAY-2016 13:10	CLS		
2	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-13	744097	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:06	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-14	744098	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-14	744099	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:06	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-15	744100	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	ORG4	13-MAY-2016 13:10	CLS		
2	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-15	744101	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:06	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-16	744102	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-16	744103	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:06	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-17	744104	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	

Samplenum	Container ID	Products
L16050763-17	744105	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:06	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-18	744106	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-18	744107	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:06	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L16050763
Account: 2551
Project: 2551.096
Samples: 20
Due Date: 24-MAY-2016

Samplenum	Container ID	Products
L16050763-19	744108	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Samplenum	Container ID	Products
L16050763-19	744109	6850

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	13-MAY-2016 13:10	CLS		
2	ANALYZ	W1	SEM	23-MAY-2016 12:06	JWR	CLS	
3	STORE	SEM	A1	24-MAY-2016 12:27	CLS	JWR	

Samplenum	Container ID	Products
L16050763-20	744110	826-LOW

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	13-MAY-2016 13:10	CLS		
2	ANALYZ	V1	ORG4	13-MAY-2016 16:07	AWE	CLS	
3	STORE	ORG4	A1	26-MAY-2016 08:07	CLS	AWE	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

NELAP Addendum - January 4, 2016

Non-NELAP LIMS Product and Description

The following is a list of those tests that are not included in the Microbac – OVD NELAP Scope of Accreditation:

Heat of Combustion (BTU)
Total Halide by Bomb Combustion (TX)
Particle Sizing - 200 Mesh (PS200)
Specific Gravity/Density (SPGRAV)
Total Residual Chlorine (CL-TRL)
Total Volatile Solids (all forms) (TVS)
Total Coliform Bacteria (all methods)
Fecal Coliform Bacteria (all methods)
Sulfite (SO3)
Propionaldehyde (HPLC-UV)

SOLID AND HAZARDOUS CHEMICALS
Nitrogen, Ammonia by Method 350.1
Chromium, Hexavalent, Leachable by SM3500 Cr-B 2009
Phenolics, Total by Method 420.1
ASTM D3987-06

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVD HPLC02/HPLC-UV

Nitroglycerin
Acetic acid
Butyric acid
Lactic acid
Propionic acid
Pyruvic acid

OVD MSS01/GC-MS

1,4-Phenylenediamine
1-Methylnaphthalene
1,4-Dioxane
Atrazine
Benzaldehyde
Biphenyl
Caprolactam
Hexamethylphosphoramide (HMPA)
Pentachlorobenzene
Pentachloroethane

NELAP Accreditation by Laboratory SOP

NONPOTABLE WATER

OVD MSV01/GC-MS

1, 1, 2-Trichloro-1,2,2-trifluoroethane
1,3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
Isoprene
Methylacetate
Methylcyclohexane
T-amylmethylether (TAME)
Tetrahydrofuran (THF)

OVD HPLC07/HPLC-MS-MS

Hexamethylphosphoramide (XMPA-LCMS)

OVD HPLC12/HPLC/UV

Acetate
Formate

OVD RSK01/GC-FID

Acetylene
Propane

OVD K9305/ISE

Fluoroborate

SOLID AND HAZARDOUS CHEMICALS

OVD MSS0I/GC-MS

1-Methylnaphthalene
Benzaldehyde
Biphenyl
Caprolactam
Pentachloroethane

NELAP Accreditation by Laboratory SOP

SOLID AND HAZARDOUS CHEMICALS

OVD MSV0I/GC-MS

1.3-Butadiene
Cyclohexane
Cyclohexanone
Dimethyl disulfide
Dimethylsulfide
Ethyl-t-butylether (ETBE)
Isoprene
Methylacetate
Methylcyclohexane
n-Hexane
T-amylmethylether (TAME)

Microbac

Laboratory Report Number: L16050972

Kayla Teague
AECOM Technical Services, Inc.
16000 Dallas Parkway
Dallas, TX 75248

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

Laboratory Contact:
Stephanie Mossburg – Team Chemist/Data Specialist
(740) 373-4071
Stephanie.Mossburg@microbac.com

I certify that all test results meet all of the requirements of the DoD QSM and other applicable contract terms and conditions. Any exceptions are attached to this cover page or addressed in the method narratives presented in the report. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories, DoD ELAP certification number 2936.01. The reported results are related only to the samples analyzed as received.

This report was certified on May 27 2016

David L. Vandenberg

David Vandenberg – Managing Director

State of Origin: TX
Accrediting Authority: Texas Commission on Environmental Quality ID:T104704252-07-TX
QAPP: DOD Ver 4.1

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #	Temp Required?
00113229	I	4.0		J2317165250	X

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	All samples were checked for pH and met the standard. Exceptions are noted above under discrepancy. (water only)	Yes
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	Yes

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
50WW19T-051316	L16050972-01	05/13/2016 09:45	05/17/2016 10:05
50WW19M-051316	L16050972-02	05/13/2016 10:25	05/17/2016 10:05
50WW19B-051316	L16050972-03	05/13/2016 11:10	05/17/2016 10:05
50WW17T-051316	L16050972-04	05/13/2016 13:30	05/17/2016 10:05
50WW17M-051316	L16050972-05	05/13/2016 14:05	05/17/2016 10:05
50WW17B-051316	L16050972-06	05/13/2016 14:35	05/17/2016 10:05
50WW13T-051316	L16050972-07	05/13/2016 15:40	05/17/2016 10:05
50WW13B-051316	L16050972-08	05/13/2016 16:10	05/17/2016 10:05
TRIP BLANK	L16050972-09	05/13/2016 00:01	05/17/2016 10:05

Microbac REPORT L16050972
PREPARED FOR AECOM Technical Services, Inc.
WORK ID:

1.0 Summary Data

1.1 Narratives

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	8260
Prep Batch Number(s):	569796,569852,569794	**Reviewer Name:**	Sarah Vandenberg
LRC Date:	2016-05-24 00:00:00		

Laboratory Data Package Cover Page

X	R1	Field chain-of-custody documentation;
X	R2	Sample identification cross-reference;
X	R3	Test reports (analytical data sheets) for each environmental sample that includes: (a) Items consistent with NELAC Chapter 5, (b) dilution factors, (c) preparation methods, (d) cleanup methods, and (e) a.if required for the project, tentatively identified compounds (TICs).
X	R4	Surrogate recovery data including: (a) Calculated recovery (%R), and (b) the laboratory's surrogate QC limits.
X	R5	Test reports/summary forms for blank samples;
X	R6	Test reports/summary forms for laboratory control samples (LCSs) including: (a) LCS spiking amounts, (b) calculated %R for each analyte, and (c) the laboratory's LCS QC limits.
X	R7	Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including: (a) samples associated with the MS/MSD clearly identified, (b) MS/MSD spiking compounds, (c) concentration of each MS/MSD analyte measured in the parent and spiked samples, (d) calculated %Rs and relative percent differences (RPDs), and (e) the laboratory's MS/MSD QC limits.
X	R8	Laboratory analytical duplicate (if applicable) recovery and precision: (a) the amount of analyte measured in the duplicate, (b) the calculated RPD, and (c) the laboratory's QC limits for analytical duplicates.
X	R9	List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
X	R10	Other problems or anomalies.

Name (Printed)	Signature	Official Title (Printed)	Date
Sarah Vandenberg	Sarah Vandenberg		2016-05-24 18:40:21

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	8260
Prep Batch Number(s):	569796,569852,569794	**Reviewer Name:**	Sarah Vandenberg
LRC Date:	2016-05-24 00:00:00		

Description	Yes	No	NA	NR	ER#
Chain-of-custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
Were all departures from standard conditions described in an exception report?	X				
Sample and quality control (QC) identification	X				
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
Test reports					
Were all samples prepared and analyzed within holding times?	X				
Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
Were calculations checked by a peer or supervisor?	X				
Were all analyte identifications checked by a peer or supervisor?	X				
Were sample detection limits reported for all analytes not detected?	X				
Were all results for soil and sediment samples reported on a dry weight basis?	X				
Were % moisture (or solids) reported for all soil and sediment samples?	X				
Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
If required for the project, are TICs reported?			X		
Surrogate recovery data					
Were surrogates added prior to extraction?	X				
Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
Test reports/summary forms for blank samples	X				
Were appropriate type(s) of blanks analyzed?	X				
Were blanks analyzed at the appropriate frequency?	X				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
Were blank concentrations < MQL?	X				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	X				

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	8260
Prep Batch Number(s):	569796,569852,569794	**Reviewer Name:**	Sarah Vandenberg
LRC Date:	2016-05-24 00:00:00		

Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
Were LCSs analyzed at the required frequency?	X				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
Was the LCSD RPD within QC limits?	X				
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?			X		
Were MS/MSD analyzed at the appropriate frequency?			X		
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
Were MS/MSD RPDs within laboratory QC limits?			X		
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			X		
Were analytical duplicates analyzed at the appropriate frequency?			X		
Were RPDs or relative standard deviations within the laboratory QC limits?			X		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	X				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				
Initial calibration (ICAL)					
Were response factors and/or relative response factors for each analyte within QC limits?	X				
Were percent RSDs or correlation coefficient criteria met?	X				

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	8260
Prep Batch Number(s):	569796,569852,569794	**Reviewer Name:**	Sarah Vandenberg
LRC Date:	2016-05-24 00:00:00		

Was the number of standards recommended in the method used for all analytes?	X				
Were all points generated between the lowest and highest standard used to calculate the curve?	X				
Are ICAL data available for all instruments used?	X				
Has the initial calibration curve been verified using an appropriate second source standard?	X				
Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	X				
Were percent differences for each analyte within the method-required QC limits?		X			2
Was the ICAL curve verified for each analyte?		X			1
Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
Mass spectral tuning					
Was the appropriate compound for the method used for tuning?	X				
Were ion abundance data within the method-required QC limits?	X				
Internal standards (IS)					
Were IS area counts and retention times within the method-required QC limits?	X				
Raw data (NELAC Section 5.5.10)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
Were data associated with manual integrations flagged on the raw data?	X				
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			X		
Tentatively identified compounds (TICs)					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
Interference Check Sample (ICS) results					
Were percent recoveries within method QC limits?			X		
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
Method detection limit (MDL) studies					

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	8260
Prep Batch Number(s):	569796,569852,569794	**Reviewer Name:**	Sarah Vandenberg
LRC Date:	2016-05-24 00:00:00		

Was a MDL study performed for each reported analyte?	X				
Is the MDL either adjusted or supported by the analysis of DCSs?	X				
Proficiency test reports					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	X				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5?	X				
Is documentation of the analyst's competency up-to-date and on file?	X				
Verification/validation documentation for methods (NELAC Chapter 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
Laboratory standard operating procedures (SOPs)					
Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter “R” must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period;

2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked).

The Exception Report for each “No” or “Not Reviewed (NR)” item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	8260
Prep Batch Number(s):	569796,569852,569794	**Reviewer Name:**	Sarah Vandenberg
LRC Date:	2016-05-24 00:00:00		

below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC §25.6 and was last inspection by [ ] TCEQ or [ ] _____ on **(enter date of last inspection**). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Exceptions Report

1)Carbon Disulfide and Dichlorodifluoromethane exceeded the UCL in the ICV analyzed 05/11/16 on HPMS6.

2) Carbon Tetrachloride, Dichlorodifluoromethane, 2,2-Dichloropropane, 1,1,1-Trichloroethane, and Trichlorofluoromethane excceeded the UCL in the CCV analyzed 05/22/16 on HPMS8.

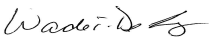
Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG570422	**Reviewer Name:**	Wade DeLong
LRC Date:	2016-05-27 00:00:00		

Laboratory Data Package Cover Page

	R1	Field chain-of-custody documentation;
	R2	Sample identification cross-reference;
	R3	Test reports (analytical data sheets) for each environmental sample that includes: (a) Items consistent with NELAC Chapter 5, (b) dilution factors, (c) preparation methods, (d) cleanup methods, and (e) a.if required for the project, tentatively identified compounds (TICs).
	R4	Surrogate recovery data including: (a) Calculated recovery (%R), and (b) the laboratory's surrogate QC limits.
	R5	Test reports/summary forms for blank samples;
	R6	Test reports/summary forms for laboratory control samples (LCSs) including: (a) LCS spiking amounts, (b) calculated %R for each analyte, and (c) the laboratory's LCS QC limits.
	R7	Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including: (a) samples associated with the MS/MSD clearly identified, (b) MS/MSD spiking compounds, (c) concentration of each MS/MSD analyte measured in the parent and spiked samples, (d) calculated %Rs and relative percent differences (RPDs), and (e) the laboratory's MS/MSD QC limits.
	R8	Laboratory analytical duplicate (if applicable) recovery and precision: (a) the amount of analyte measured in the duplicate, (b) the calculated RPD, and (c) the laboratory's QC limits for analytical duplicates.
	R9	List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
	R10	Other problems or anomalies.

Name (Printed)	Signature	Official Title (Printed)	Date
Wade DeLong		Chemist I	2016-05-27 18:01:03

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG570422	**Reviewer Name:**	Wade DeLong
LRC Date:	2016-05-27 00:00:00		

Description	Yes	No	NA	NR	ER#
Chain-of-custody (C-O-C)					
Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
Were all departures from standard conditions described in an exception report?	X				
Sample and quality control (QC) identification	X				
Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
Test reports					
Were all samples prepared and analyzed within holding times?	X				
Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
Were calculations checked by a peer or supervisor?	X				
Were all analyte identifications checked by a peer or supervisor?	X				
Were sample detection limits reported for all analytes not detected?	X				
Were all results for soil and sediment samples reported on a dry weight basis?			X		
Were % moisture (or solids) reported for all soil and sediment samples?			X		
Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
If required for the project, are TICs reported?	X				
Surrogate recovery data					
Were surrogates added prior to extraction?			X		
Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
Test reports/summary forms for blank samples	X				
Were appropriate type(s) of blanks analyzed?	X				
Were blanks analyzed at the appropriate frequency?	X				
Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
Were blank concentrations < MQL?	X				
Laboratory control samples (LCS):					
Were all COCs included in the LCS?	X				

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG570422	**Reviewer Name:**	Wade DeLong
LRC Date:	2016-05-27 00:00:00		

Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
Were LCSs analyzed at the required frequency?	X				
Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
Was the LCSD RPD within QC limits?			X		
Matrix spike (MS) and matrix spike duplicate (MSD) data					
Were the project/method specified analytes included in the MS and MSD?	X				
Were MS/MSD analyzed at the appropriate frequency?	X				
Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
Were MS/MSD RPDs within laboratory QC limits?	X				
Analytical duplicate data					
Were appropriate analytical duplicates analyzed for each matrix?			X		
Were analytical duplicates analyzed at the appropriate frequency?			X		
Were RPDs or relative standard deviations within the laboratory QC limits?			X		
Method quantitation limits (MQLs):					
Are the MQLs for each method analyte included in the laboratory data package?	X				
Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
Other problems/anomalies					
Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?			X		
Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				
Initial calibration (ICAL)					
Were response factors and/or relative response factors for each analyte within QC limits?	X				
Were percent RSDs or correlation coefficient criteria met?	X				

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG570422	**Reviewer Name:**	Wade DeLong
LRC Date:	2016-05-27 00:00:00		

Was the number of standards recommended in the method used for all analytes?	X				
Were all points generated between the lowest and highest standard used to calculate the curve?	X				
Are ICAL data available for all instruments used?	X				
Has the initial calibration curve been verified using an appropriate second source standard?	X				
Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
Was the CCV analyzed at the method-required frequency?	X				
Were percent differences for each analyte within the method-required QC limits?	X				
Was the ICAL curve verified for each analyte?	X				
Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
Mass spectral tuning					
Was the appropriate compound for the method used for tuning?	X				
Were ion abundance data within the method-required QC limits?			X		
Internal standards (IS)					
Were IS area counts and retention times within the method-required QC limits?	X				
Raw data (NELAC Section 5.5.10)					
Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
Were data associated with manual integrations flagged on the raw data?	X				
Dual column confirmation					
Did dual column confirmation results meet the method-required QC?			X		
Tentatively identified compounds (TICs)					
If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
Interference Check Sample (ICS) results					
Were percent recoveries within method QC limits?	X				
Serial dilutions, post digestion spikes, and method of standard additions					
Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
Method detection limit (MDL) studies					

Microbac

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG570422	**Reviewer Name:**	Wade DeLong
LRC Date:	2016-05-27 00:00:00		

Was a MDL study performed for each reported analyte?	X				
Is the MDL either adjusted or supported by the analysis of DCSs?	X				
Proficiency test reports					
Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
Standards documentation					
Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
Compound/analyte identification procedures					
Are the procedures for compound/analyte identification documented?	X				
Demonstration of analyst competency (DOC)					
Was DOC conducted consistent with NELAC Chapter 5?	X				
Is documentation of the analyst's competency up-to-date and on file?	X				
Verification/validation documentation for methods (NELAC Chapter 5)					
Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
Laboratory standard operating procedures (SOPs)					
Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter “R” must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period;

2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);

3. NA = Not applicable;

4. NR = Not reviewed;

5. ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked).

The Exception Report for each “No” or “Not Reviewed (NR)” item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature

Texas Risk Reduction Program (TRRP) Checklist

Laboratory Name:	Microbac OVD	**Laboratory Log Number:**	L16050972
Project Name:		**Method:**	6850
Prep Batch Number(s):	WG570422	**Reviewer Name:**	Wade DeLong
LRC Date:	2016-05-27 00:00:00		

below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [ ] This laboratory meets an exception under 30 TAC §25.6 and was last inspection by [ ] TCEQ or [ ] _____ on **(enter date of last inspection**). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Exceptions Report

1.2 Certificate of Analysis

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	50WW19T-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 17:50
Workgroup #:	WG569794	**Analyst:**	FJB	**Run Date:**	05/22/2016 22:37
Collect Date:	05/13/2016 09:45	**Dilution:**	1	**File ID:**	8M412494
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	Q	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	Q	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	Q	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	Q	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	107	85	115	
1,2-Dichloroethane-d4	109	70	120	
Toluene-d8	104	85	120	
4-Bromofluorobenzene	99.6	75	120	

Q	One or more quality control criteria failed. See narrative.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-01	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW19T-051316	**Prep Method:**	6850	**Prep Date:**	05/26/2016 13:30
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG570422	**Analyst:**	JWR	**Run Date:**	05/26/2016 17:46
Collect Date:	05/13/2016 09:45	**Dilution:**	1	**File ID:**	1LM.LM35102
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.338	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-02	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	50WW19M-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 17:50
Workgroup #:	WG569794	**Analyst:**	FJB	**Run Date:**	05/22/2016 23:05
Collect Date:	05/13/2016 10:25	**Dilution:**	1	**File ID:**	8M412495
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	Q	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	Q	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	Q	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	Q	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	108	85	115	
1,2-Dichloroethane-d4	110	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	99.6	75	120	

Q	One or more quality control criteria failed. See narrative.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-02	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW19M-051316	**Prep Method:**	6850	**Prep Date:**	05/26/2016 13:30
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG570422	**Analyst:**	JWR	**Run Date:**	05/26/2016 18:05
Collect Date:	05/13/2016 10:25	**Dilution:**	1	**File ID:**	1LM.LM35103
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-03	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	50WW19B-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 17:50
Workgroup #:	WG569794	**Analyst:**	FJB	**Run Date:**	05/22/2016 23:35
Collect Date:	05/13/2016 11:10	**Dilution:**	1	**File ID:**	8M412496
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	Q	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	Q	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	Q	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	Q	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	107	85	115	
1,2-Dichloroethane-d4	109	70	120	
Toluene-d8	104	85	120	
4-Bromofluorobenzene	98.5	75	120	

Q	One or more quality control criteria failed. See narrative.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-03	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW19B-051316	**Prep Method:**	6850	**Prep Date:**	05/26/2016 13:30
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG570422	**Analyst:**	JWR	**Run Date:**	05/26/2016 18:24
Collect Date:	05/13/2016 11:10	**Dilution:**	1	**File ID:**	1LM.LM35104
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	50WW17T-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 17:50
Workgroup #:	WG569794	**Analyst:**	FJB	**Run Date:**	05/23/2016 00:04
Collect Date:	05/13/2016 13:30	**Dilution:**	1	**File ID:**	8M412497
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	Q	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	Q	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	Q	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	Q	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	109	85	115	
1,2-Dichloroethane-d4	112	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	100	75	120	

Q	One or more quality control criteria failed. See narrative.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-04	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW17T-051316	**Prep Method:**	6850	**Prep Date:**	05/26/2016 13:30
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG570422	**Analyst:**	JWR	**Run Date:**	05/26/2016 18:43
Collect Date:	05/13/2016 13:30	**Dilution:**	1	**File ID:**	1LM.LM35105
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.149	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-05	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW17M-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569796	**Analyst:**	FJB	**Run Date:**	05/22/2016 22:31
Collect Date:	05/13/2016 14:05	**Dilution:**	1	**File ID:**	6M139535
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	98.3	70	120	
Toluene-d8	98.3	85	120	
4-Bromofluorobenzene	97.4	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-05	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW17M-051316	**Prep Method:**	6850	**Prep Date:**	05/26/2016 13:30
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG570422	**Analyst:**	JWR	**Run Date:**	05/26/2016 19:59
Collect Date:	05/13/2016 14:05	**Dilution:**	1	**File ID:**	1LM.LM35109
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.119	J	0.400	0.200	0.100

J	Estimated value ; the analyte concentration was less than the LOQ.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-06	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW17B-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569796	**Analyst:**	FJB	**Run Date:**	05/22/2016 23:03
Collect Date:	05/13/2016 14:35	**Dilution:**	1	**File ID:**	6M139536
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	98.7	70	120	
Toluene-d8	98.3	85	120	
4-Bromofluorobenzene	97.3	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-06	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW17B-051316	**Prep Method:**	6850	**Prep Date:**	05/26/2016 13:30
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG570422	**Analyst:**	JWR	**Run Date:**	05/26/2016 20:18
Collect Date:	05/13/2016 14:35	**Dilution:**	1	**File ID:**	1LM.LM35110
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	0.200	U	0.400	0.200	0.100

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW13T-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569796	**Analyst:**	FJB	**Run Date:**	05/22/2016 23:35
Collect Date:	05/13/2016 15:40	**Dilution:**	1	**File ID:**	6M139537
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.316	J	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.150	J	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.675	J	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	4.31		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.23	J	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	25.0		1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.846	J	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.259	J	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	98.2	70	120	
Toluene-d8	98.4	85	120	
4-Bromofluorobenzene	96.4	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
J	Estimated value ; the analyte concentration was greater than the highest standard

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW13T-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569852	**Analyst:**	TMB	**Run Date:**	05/23/2016 16:11
Collect Date:	05/13/2016 15:40	**Dilution:**	10	**File ID:**	6M139554
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Trichloroethene	79-01-6	529		10.0	5.00	2.50

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.6	85	115	
1,2-Dichloroethane-d4	96.2	70	120	
Toluene-d8	99.0	85	120	
4-Bromofluorobenzene	96.9	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-07	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW13T-051316	**Prep Method:**	6850	**Prep Date:**	05/26/2016 13:30
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG570422	**Analyst:**	JWR	**Run Date:**	05/26/2016 20:37
Collect Date:	05/13/2016 15:40	**Dilution:**	100	**File ID:**	1LM.LM35111
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	493		40.0	20.0	10.0

Certificate of Analysis

Sample #:	L16050972-08	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW13B-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569796	**Analyst:**	FJB	**Run Date:**	05/23/2016 00:07
Collect Date:	05/13/2016 16:10	**Dilution:**	1	**File ID:**	6M139538
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.131	J	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.397	J	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	2.24		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	0.740	J	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	15.8		1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.555	J	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250

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Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	97.7	70	120	
Toluene-d8	98.3	85	120	
4-Bromofluorobenzene	96.8	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
J	Estimated value ; the analyte concentration was greater than the highest standard
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-08	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW13B-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569852	**Analyst:**	TMB	**Run Date:**	05/23/2016 18:19
Collect Date:	05/13/2016 16:10	**Dilution:**	5	**File ID:**	6M139558
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Trichloroethene	79-01-6	322		5.00	2.50	1.25

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	97.6	70	120	
Toluene-d8	98.0	85	120	
4-Bromofluorobenzene	98.1	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-08	**PrePrep Method:**	N/A	**Instrument:**	LCMS1
Client ID:	50WW13B-051316	**Prep Method:**	6850	**Prep Date:**	05/26/2016 13:30
Matrix:	Water	**Analytical Method:**	6850	**Cal Date:**	05/03/2016 17:18
Workgroup #:	WG570422	**Analyst:**	JWR	**Run Date:**	05/26/2016 20:56
Collect Date:	05/13/2016 16:10	**Dilution:**	100	**File ID:**	1LM.LM35112
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Perchlorate	14797-73-0	256		40.0	20.0	10.0

Certificate of Analysis

Sample #:	L16050972-09	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	TRIP BLANK	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569796	**Analyst:**	FJB	**Run Date:**	05/22/2016 16:37
Collect Date:	05/13/2016 00:01	**Dilution:**	1	**File ID:**	6M139524
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250

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Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.8	85	115	
1,2-Dichloroethane-d4	96.3	70	120	
Toluene-d8	98.5	85	120	
4-Bromofluorobenzene	98.1	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

2.0 Full Sample Data Package

2.1 Volatiles Data

2.1.1 Volatiles GCMS Data (8260)

2.1.1.1 Summary Data

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-01	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	50WW19T-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 17:50
Workgroup #:	WG569794	**Analyst:**	FJB	**Run Date:**	05/22/2016 22:37
Collect Date:	05/13/2016 09:45	**Dilution:**	1	**File ID:**	8M412494
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	Q	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	Q	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	Q	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	Q	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	107	85	115	
1,2-Dichloroethane-d4	109	70	120	
Toluene-d8	104	85	120	
4-Bromofluorobenzene	99.6	75	120	

Q	One or more quality control criteria failed. See narrative.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-02	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	50WW19M-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 17:50
Workgroup #:	WG569794	**Analyst:**	FJB	**Run Date:**	05/22/2016 23:05
Collect Date:	05/13/2016 10:25	**Dilution:**	1	**File ID:**	8M412495
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	Q	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

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Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	Q	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	Q	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	Q	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	108	85	115	
1,2-Dichloroethane-d4	110	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	99.6	75	120	

Q	One or more quality control criteria failed. See narrative.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-03	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	50WW19B-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 17:50
Workgroup #:	WG569794	**Analyst:**	FJB	**Run Date:**	05/22/2016 23:35
Collect Date:	05/13/2016 11:10	**Dilution:**	1	**File ID:**	8M412496
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	Q	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	Q	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	Q	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	Q	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	107	85	115	
1,2-Dichloroethane-d4	109	70	120	
Toluene-d8	104	85	120	
4-Bromofluorobenzene	98.5	75	120	

Q	One or more quality control criteria failed. See narrative.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-04	**PrePrep Method:**	N/A	**Instrument:**	HPMS8
Client ID:	50WW17T-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/13/2016 17:50
Workgroup #:	WG569794	**Analyst:**	FJB	**Run Date:**	05/23/2016 00:04
Collect Date:	05/13/2016 13:30	**Dilution:**	1	**File ID:**	8M412497
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	Q	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	Q	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	Q	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	Q	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	Q	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	109	85	115	
1,2-Dichloroethane-d4	112	70	120	
Toluene-d8	103	85	120	
4-Bromofluorobenzene	100	75	120	

Q	One or more quality control criteria failed. See narrative.

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-05	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW17M-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569796	**Analyst:**	FJB	**Run Date:**	05/22/2016 22:31
Collect Date:	05/13/2016 14:05	**Dilution:**	1	**File ID:**	6M139535
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	98.3	70	120	
Toluene-d8	98.3	85	120	
4-Bromofluorobenzene	97.4	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-06	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW17B-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569796	**Analyst:**	FJB	**Run Date:**	05/22/2016 23:03
Collect Date:	05/13/2016 14:35	**Dilution:**	1	**File ID:**	6M139536
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	98.7	70	120	
Toluene-d8	98.3	85	120	
4-Bromofluorobenzene	97.3	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW13T-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569796	**Analyst:**	FJB	**Run Date:**	05/22/2016 23:35
Collect Date:	05/13/2016 15:40	**Dilution:**	1	**File ID:**	6M139537
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.316	J	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.150	J	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.675	J	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	4.31		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.23	J	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	25.0		1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.846	J	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.259	J	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	98.2	70	120	
Toluene-d8	98.4	85	120	
4-Bromofluorobenzene	96.4	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
J	Estimated value ; the analyte concentration was greater than the highest standard

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-07	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW13T-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569852	**Analyst:**	TMB	**Run Date:**	05/23/2016 16:11
Collect Date:	05/13/2016 15:40	**Dilution:**	10	**File ID:**	6M139554
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Trichloroethene	79-01-6	529		10.0	5.00	2.50

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	99.6	85	115	
1,2-Dichloroethane-d4	96.2	70	120	
Toluene-d8	99.0	85	120	
4-Bromofluorobenzene	96.9	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-08	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW13B-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569796	**Analyst:**	FJB	**Run Date:**	05/23/2016 00:07
Collect Date:	05/13/2016 16:10	**Dilution:**	1	**File ID:**	6M139538
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.131	J	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.397	J	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	2.24		1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	0.740	J	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	15.8		1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.555	J	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	97.7	70	120	
Toluene-d8	98.3	85	120	
4-Bromofluorobenzene	96.8	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
J	Estimated value ; the analyte concentration was greater than the highest standard

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-08	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	50WW13B-051316	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569852	**Analyst:**	TMB	**Run Date:**	05/23/2016 18:19
Collect Date:	05/13/2016 16:10	**Dilution:**	5	**File ID:**	6M139558
Sample Tag:	DL01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Trichloroethene	79-01-6	322		5.00	2.50	1.25

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	101	85	115	
1,2-Dichloroethane-d4	97.6	70	120	
Toluene-d8	98.0	85	120	
4-Bromofluorobenzene	98.1	75	120	

J	Estimated value ; the analyte concentration was less than the LOQ.
U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

Sample #:	L16050972-09	**PrePrep Method:**	N/A	**Instrument:**	HPMS6
Client ID:	TRIP BLANK	**Prep Method:**	5030B/5030C/5035A	**Prep Date:**	N/A
Matrix:	Water	**Analytical Method:**	8260B	**Cal Date:**	05/11/2016 15:29
Workgroup #:	WG569796	**Analyst:**	FJB	**Run Date:**	05/22/2016 16:37
Collect Date:	05/13/2016 00:01	**Dilution:**	1	**File ID:**	6M139524
Sample Tag:	01	**Units:**	ug/L		

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
Acetone	67-64-1	5.00	U	10.0	5.00	2.50
Benzene	71-43-2	0.250	U	1.00	0.250	0.125
Bromobenzene	108-86-1	0.250	U	1.00	0.250	0.125
Bromochloromethane	74-97-5	0.400	U	1.00	0.400	0.200
Bromodichloromethane	75-27-4	0.500	U	1.00	0.500	0.250
Bromoform	75-25-2	1.00	U	2.00	1.00	0.500
Bromomethane	74-83-9	1.00	U	2.00	1.00	0.500
2-Butanone	78-93-3	5.00	U	10.0	5.00	2.50
n-Butylbenzene	104-51-8	0.500	U	1.00	0.500	0.250
sec-Butylbenzene	135-98-8	0.500	U	1.00	0.500	0.250
tert-Butylbenzene	98-06-6	0.500	U	1.00	0.500	0.250
Carbon disulfide	75-15-0	1.00	U	2.00	1.00	0.500
Carbon tetrachloride	56-23-5	0.500	U	1.00	0.500	0.250
Chlorobenzene	108-90-7	0.250	U	1.00	0.250	0.125
Chlorodibromomethane	124-48-1	0.500	U	1.00	0.500	0.250
Chloroethane	75-00-3	1.00	U	2.00	1.00	0.500
Chloroform	67-66-3	0.250	U	1.00	0.250	0.125
Chloromethane	74-87-3	1.00	U	2.00	1.00	0.500
2-Chlorotoluene	95-49-8	0.250	U	1.00	0.250	0.125
4-Chlorotoluene	106-43-4	0.500	U	1.00	0.500	0.250
1,2-Dibromo-3-chloropropane	96-12-8	2.00	U	5.00	2.00	1.00
1,2-Dibromoethane	106-93-4	0.500	U	1.00	0.500	0.250
Dibromomethane	74-95-3	0.500	U	1.00	0.500	0.250
1,2-Dichlorobenzene	95-50-1	0.250	U	1.00	0.250	0.125
1,3-Dichlorobenzene	541-73-1	0.500	U	1.00	0.500	0.250
1,4-Dichlorobenzene	106-46-7	0.250	U	1.00	0.250	0.125
Dichlorodifluoromethane	75-71-8	0.500	U	1.00	0.500	0.250
1,1-Dichloroethane	75-34-3	0.250	U	1.00	0.250	0.125
1,2-Dichloroethane	107-06-2	0.500	U	1.00	0.500	0.250
1,1-Dichloroethene	75-35-4	1.00	U	2.00	1.00	0.500
cis-1,2-Dichloroethene	156-59-2	0.500	U	1.00	0.500	0.250

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Analyte	CAS #	Result	Qual	LOQ	LOD	DL
trans-1,2-Dichloroethene	156-60-5	0.500	U	1.00	0.500	0.250
1,2-Dichloropropane	78-87-5	0.400	U	1.00	0.400	0.200
1,3-Dichloropropane	142-28-9	0.400	U	1.00	0.400	0.200
2,2-Dichloropropane	594-20-7	0.500	U	1.00	0.500	0.250
cis-1,3-Dichloropropene	10061-01-5	0.500	U	1.00	0.500	0.250
trans-1,3-Dichloropropene	10061-02-6	1.00	U	2.00	1.00	0.500
1,1-Dichloropropene	563-58-6	0.500	U	1.00	0.500	0.250
Ethylbenzene	100-41-4	0.500	U	1.00	0.500	0.250
2-Hexanone	591-78-6	5.00	U	10.0	5.00	2.50
Hexachlorobutadiene	87-68-3	0.500	U	1.00	0.500	0.250
Isopropylbenzene	98-82-8	0.500	U	1.00	0.500	0.250
p-Isopropyltoluene	99-87-6	0.500	U	1.00	0.500	0.250
4-Methyl-2-pentanone	108-10-1	5.00	U	10.0	5.00	2.50
Methylene chloride	75-09-2	0.500	U	1.00	0.500	0.250
Naphthalene	91-20-3	0.400	U	1.00	0.400	0.200
n-Propylbenzene	103-65-1	0.250	U	1.00	0.250	0.125
Styrene	100-42-5	0.250	U	1.00	0.250	0.125
1,1,1,2-Tetrachloroethane	630-20-6	0.500	U	1.00	0.500	0.250
1,1,2,2-Tetrachloroethane	79-34-5	0.400	U	1.00	0.400	0.200
Tetrachloroethene	127-18-4	0.500	U	1.00	0.500	0.250
Toluene	108-88-3	0.500	U	1.00	0.500	0.250
1,2,3-Trichlorobenzene	87-61-6	0.300	U	1.00	0.300	0.150
1,2,4-Trichlorobenzene	120-82-1	0.400	U	1.00	0.400	0.200
1,1,1-Trichloroethane	71-55-6	0.500	U	1.00	0.500	0.250
1,1,2-Trichloroethane	79-00-5	0.500	U	1.00	0.500	0.250
Trichloroethene	79-01-6	0.500	U	1.00	0.500	0.250
Trichlorofluoromethane	75-69-4	0.500	U	1.00	0.500	0.250
1,2,3-Trichloropropane	96-18-4	1.00	U	2.00	1.00	0.500
1,2,4-Trimethylbenzene	95-63-6	0.500	U	1.00	0.500	0.250
1,3,5-Trimethylbenzene	108-67-8	0.500	U	1.00	0.500	0.250
Vinyl chloride	75-01-4	0.500	U	1.00	0.500	0.250
o-Xylene	95-47-6	0.500	U	1.00	0.500	0.250
m-,p-Xylene	179601-23-1	1.00	U	2.00	1.00	0.500

Surrogate	Recovery	Lower Limit	Upper Limit	Q
Dibromofluoromethane	98.8	85	115	
1,2-Dichloroethane-d4	96.3	70	120	
Toluene-d8	98.5	85	120	
4-Bromofluorobenzene	98.1	75	120	

U	Analyte was not detected. The concentration is below the reported LOD.

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Microbac

Lab Report #: L16050972
Lab Project #: 2551.096
Project Name: Longhorn Army Ammunition
Lab Contact: Stephanie Mossburg

Certificate of Analysis

2.1.1.2 QC Summary Data

Example 8260 Calculations

1.0 Calculating the Response Factor (RF) from the initial calibration (ICAL) data:

RF = [(Ax) (Cis)] / [(Ais) (Cx)]

where:	Example
Ax = Area of the characteristic ion for the compound being measured:	3399156
Cis = Concentration of the specific internal standard (ug/mL)	25
Ais = Area of the characteristic ion of the specific internal standard	846471
Cx = Concentration of the compound in the standard being measured (ug/mL)	100
RF = Calculated Response Factor	**1.0039**

2.0 Calculating the concentration (C) of a compound in water using the average RF: *

Cx = [(Ax) (Cis) (Vn)(D)] / [(Ais) (RF) (Vs)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Vs = Purge volume of sample (mL)	**10**
Vn = Nominal purge volume of sample (mL) (10.0 mL)	**10**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

3.0 Calculating the concentration (C) of a compound in soil using the average RF: *

Cx = [(Ax) (Cis) (Wn)(D)] / [(Ais) (RF) (Ws)]

where:	**Example**
Ax = Area of the characteristic ion for the compound being measured	**3122498**
Cis = Concentration of the specific internal standard (ug/L)	**25**
D = Dilution factor for sample as a multiplier (10x = 10)	**1**
Ais = Area of the characteristic ion of the specific internal standard	**611048**
RF = Average RF from the ICAL	**1.004**
Ws = Weight of sample purged (g)	**5**
Wn = Nominal purge weight (g) (5.0 g)	**5**
Cx = Concentration of the compound in the sample being measured (ug/L)	**127.2428**

Dry weight correction:

Percent solids (PCT_S)	**50**
Cd = (Cx) (100)/PCT_S	**254.4856**

* Concentrations appearing on the instrument quantitation reports are on-column results and do not take into account initial volume, final volume, and the dilution factor.

4.0 Concentration from Linear Regression

Step 1: Retrieve Curve Data From Plot, y = mx + b

y = response ratio = response of analyte / response of IS = Ax/Ais

x = amount ratio = concentration analyte/concentration internal standard = Cx / Cis

m = slope from curve = 0.213

b = intercept from curve = - 0.00642

Step 2: Calculate y from Quantitation Report

y = 86550/593147 = 0.1459

Step 3: Solve for x

x = (y - b)/m = [(0.1459 -(- 0.00642)]/ 0.213 = 0.7152

Step 4: Solve for analyte concentration Cx

Cx = Cis (x) = (25.0)(0.7152) = 17.88

Example Spreadsheet Calculation:

Slope from curve, m:	**0.213**
Intercept from curve, b:	**-0.00642**
Area of analyte, Ax:	**86550**
Area of Internal Standard , Ais:	**593147**
Concentration of IS, Cis	**25.00**
Response Ratio:	**0.145917**
Amount Ratio:	**0.715195**
Concentration:	**17.87988**
Units of Internal Standard:	**ug/L**

5.0 Concentration from Quadratic Regression

Step 1 - Retrieve Curve Data from Plot, y = Ax^2 + Bx + C
Where:
Ax^2 + Bx + (C - y) = 0
A, B, C = constants from the ICAL quadratic regression
y = Response ratio = Area of analyte/Area of internal standard (IS)
x = Amount ratio = Concentration of analyte/concentration of IS

Step 2: Calculate y from Quantitation Report

y = Ax/Ais

Step 3: Solve for x using the quadratic formula
Ax^2 + Bx + C - y = 0

$$x = \frac{b \pm \sqrt{\left(b^2 - 4a(c - y)\right)}}{2a}$$ (Two possible solutions)

Step 4: Solve for analyte concentration Cx

Cx = (Cis)(Amount ratio)

Example Spreadsheet Calculation:

Value of A from plot:	**-0.00629**	
Value of B from plot:	**0.511**	
Value of C from plot:	**-0.0276**	
Area of unknown from quantitation report:	**293821**	
Area of IS from quantiation report:	**784848**	
Response ratio, y:	**0.374367**	
C - y:	**-0.40197**	
Root 1 - Computed amount ratio , X1:	**80.44567**	
Root 2 - Computed amount ratio , X2:	**0.794396**	use this solution
Concentration of IS, Cis:	**25.00**	
Concentration of analyte, Cx:	**19.86**	ug/L

Analyst(s): CPD / AMA
Date: 5/19/2016
Filter Lot #: 9697607

Agitator Speed 30 ± 2 rpm ☑

Analyst / Date		Analyst / Date	
CPD/AMA 5/19/16		AMA	5/20/16
Time On	Temp On °C	Time Off	Temp Off °C
1534	22.8	0820	22.1

ZHE	Sample #	Pressure √	PSI ON	PSI OFF	Method	Fluid #	Matrix*	%Solid	Size Reduction Yes	Size Reduction No	Int. Wt. (g)	Fluid Vol. (mL)
A												
B												
C												
D												
E												
F												
G												
H												
I	05-1013-02	✓	10	10	1311	FI-177	S	100		✓	25.08	502
J												
K												
L												
~~M~~ M	05-1013-05	✓	10	10	1311	FI-177	S	100		✓	25.07	501
N												
O												
P												
Q												
R												
S												
	FBLK1	NA	NA	NA	1311	FI-177	NA	NA	NA	NA	40	40

CPD 5/19/16
AMA 5/19/16
CPD 5/19/16
CPD 5/19/16
CPD 5/19/16

*Matrix Code = (S-solid) (SS-sand, soil or sludge) (P-paint) (O-organic) (W-water or waste)

Comments: N/A

Peer Review By: Allie Alfred 5/20/2016

Analyst(s): AMA/
Date: 5/16/16
Filter Lot #: 96976007

Agitator Speed 30 ± 2 rpm ☑

Analyst / Date		Analyst / Date	
AMA/CPD 5/16/16		CPD 5/17/16	
Time On	Temp On °C	Time Off	Temp Off °C
1545	22.7	0811	22.0

ZHE	Sample #	Pressure √	PSI ON	PSI OFF	Method	Fluid #	Matrix*	%Solid	Size Reduction Yes	Size Reduction No	Int. Wt. (g)	Fluid Vol. (mL)
A												
B												
C												
D												
E												
F												
G												
H												
I												
J												
K												
L												
M												
N	05-0790-01	✓	10	10	1311	FI-177	S	100		✓	25.05	501
O	05-0795-01	✓	10	10	1311	〃	〃	〃		✓	25.06	501
P	05-0808-01	✓	10	10	1311	〃	〃	〃		✓	25.00	500
Q												
R												
S												
NA	FBIK1	NA	NA	NA	1311	FI177	NA	NA	NA	NA	40	40

CPD 5/16/16

CPD 5/16/16

CPD 5/16/16

*Matrix Code = (S-solid) (SS-sand, soil or sludge) (P-paint) (O-organic) (W-water or waste)

Comments: N/A

Peer Review By: [signature]

Analyst(s): CPD
Date: 5/17/16
Filter Lot #: 96976O7

Agitator Speed 30 ± 2 rpm ☑

Analyst / Date		Analyst / Date	
CPD	5/17/16	CPD	5/18/16
Time On	Temp On °C	Time Off	Temp Off °C
1530	21.5	0819	22.1

ZHE	Sample #	Pressure √	PSI ON	PSI OFF	Method	Fluid #	Matrix*	%Solid	Size Reduction Yes	Size Reduction No	Int. Wt. (g)	Fluid Vol. (mL)
A												
B												
C												
D	05-0921-01	✓	10	10	1311	FI-177	S	100		✓	25.26	505
E												
F												
G												
H												
I												
J												
K												
L												
M												
N												
O												
P												
Q												
R												
S												
NA	FBIK1	NA	NA	NA	1311	FI-177	NA	NA	NA	NA	40	40

CPD 5/17/16
CPD 5/17/16
CPD 5/17/16

*Matrix Code = (S-solid) (SS-sand, soil or sludge) (P-paint) (O-organic) (W-water or waste)

Comments: N/A

Peer Review By: Allie Alfred

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 042416
Analyst1: JDS Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 23
Method: 624 SOP: MSV10 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID:

Internal Standard: STD75498 Surrogate Standard: STD75498
CCV: STD75791 LCS: STD75801 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG566155

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
6M138749	RINSE	NA	1	1		04/24/16 16:05
6M138750	WG566155-01 50ng BFB 826-A9	NA	1	1	STD75485	04/24/16 16:33
6M138751	WG566155-02 5ug/L STD 826-A9	NA	1	1	STD75791	04/24/16 16:59
6M138752	WG566155-03 20ug/L STD 826-A	NA	1	1	STD75791	04/24/16 17:31
6M138753	WG566155-04 50ug/L STD 826-A9	NA	1	1	STD75791	04/24/16 18:03
6M138754	WG566155-05 100ug/L STD 826-A	NA	1	1	STD75791	04/24/16 18:36
6M138755	WG566155-06 200ug/L STD 826-A9	NA	1	1	STD75791	04/24/16 19:08
6M138756	WG566155-07 300ug/L STD 826-A9	NA	1	1	STD75791	04/24/16 19:40
6M138757	WG566155-08 400ug/L STD 826-A9	NA	1	1	STD75791	04/24/16 20:12
6M138758	WG566155-09 500ug/L STD 826-A9	NA	1	1	STD75791	04/24/16 20:44
6M138759	RINSE	NA	1	1		04/24/16 21:16
6M138760	RINSE	NA	1	1		04/24/16 21:49
6M138761	WG566155-10 100ug/L ALT SRC	NA	1	1	STD75801	04/24/16 22:21
6M138762	RINSE	NA	1	1		04/24/16 22:53
6M138763	RINSE	NA	1	1		04/24/16 23:25

Approved: April 29, 2016

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 051116
Analyst1: TMB Analyst2: FJB
Method: 8260B SOP: MSV01 Rev: 23
Method: 624 SOP: MSV10 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID: 53746

Internal Standard: STD75822 Surrogate Standard: STD75822
CCV: STD76070; STD76072 LCS: STD76109; STD75801 MS/MSD: STD76055

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG568265; WG568472

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
6M139171	bfb check	NA	1	1	STD76034	05/11/16 06:22
6M139172	bfb check	NA	1	1	STD76034	05/11/16 06:38
6M139173	WG568265-01 50ng BFB STD 8260	NA	1	1	STD76034	05/11/16 08:06
6M139174	WG568265-02 0.3ug/L STD 8260	NA	1	1	STD76070	05/11/16 08:32
6M139175	WG568265-03 0.4ug/L STD 8260	NA	1	1	STD76070	05/11/16 09:04
6M139176	WG568265-04 1ug/L STD 8260	NA	1	1	STD76070	05/11/16 09:38
6M139177	WG568265-01 50ng BFB STD 8260	NA	1	1	STD76034	05/11/16 10:08
6M139178	WG568265-02 0.3ug/L STD 8260	NA	1	1	STD76070	05/11/16 10:40
6M139179	WG568265-03 0.4ug/L STD 8260	NA	1	1	STD76070	05/11/16 11:12
6M139180	WG568265-04 1ug/L STD 8260	NA	1	1	STD76070	05/11/16 11:45
6M139181	WG568265-05 2ug/L STD 8260	NA	1	1	STD76070	05/11/16 12:16
6M139182	WG568265-06 5ug/L STD 8260	NA	1	1	STD76070	05/11/16 12:48
6M139183	WG568265-07 20ug/L STD 8260	NA	1	1	STD76070	05/11/16 13:20
6M139184	WG568265-08 50ug/L STD 8260	NA	1	1	STD76070	05/11/16 13:53
6M139185	WG568265-09 100ug/L STD 8260	NA	1	1	STD76070	05/11/16 14:25
6M139186	WG568265-10 200ug/L STD 8260	NA	1	1	STD76070	05/11/16 14:57
6M139187	WG568265-11 300ug/L STD 8260	NA	1	1	STD76070	05/11/16 15:29
6M139188	RINSE	NA	1	1		05/11/16 16:08
6M139189	RINSE	NA	1	1		05/11/16 16:40
6M139190	WG568265-12 50ug/L ALT SRC STD 8260	NA	1	1	STD76109	05/11/16 17:12
6M139191	WG568265-12 50ug/L ALT SRC STD 8260	NA	1	1	STD76109	05/11/16 18:17
6M139192	WG568470-01 BFB 50ng 8260	NA	1	1	STD76034	05/11/16 19:11
6M139193	WG568470-02 50ug/L CCV 8260	NA	1	1	STD76070	05/11/16 19:40
6M139194	WG568471-01 100ug/L CCV A9	NA	1	1	STD76072	05/11/16 20:12
6M139195	WG568472-01 VBLK0511 BLANK 8260	NA	1	1		05/11/16 20:44
6M139196	WG568472-02 20ug/L LCS 8260	NA	1	1	STD76109	05/11/16 21:16
6M139197	L16050479-08 2X MS A 826-A9-SPE	7	1	2	STD76055	05/11/16 21:49
6M139198	L16050479-09 2X MSD A 826-A9-SPE	7	1	2	STD76055	05/11/16 22:21
6M139199	WG568472-06 100ug/L LCS A9	NA	1	1	STD75801	05/11/16 22:53
6M139200	L16050479-07 2X REF A 826-A9-SPE	7	1	2		05/11/16 23:25
6M139201	L16050479-04 A 826-A9-SPE	7	1	1		05/11/16 23:57
6M139202	L16050418-05 A 826-A9-SPE	7	1	1		05/12/16 00:30
6M139203	L16050418-06 A 826-A9-SPE	7	1	1		05/12/16 01:02
6M139204	L16050418-07 A 826-A9-SPE	7	1	1		05/12/16 01:34

Approved: May 13, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 051116
Analyst1: TMB Analyst2: FJB
Method: 8260B SOP: MSV01 Rev: 23
Method: 624 SOP: MSV10 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID: 53746

Internal Standard: STD75822 Surrogate Standard: STD75822
CCV: STD76070; STD76072 LCS: STD76109; STD75801 MS/MSD: STD76055

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG568265; WG568472

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
6M139205	L16050418-08 A 826-A9-SPE	7	1	1		05/12/16 02:06
6M139206	L16050479-01 A 826-A9-SPE	7	1	1		05/12/16 02:38
6M139207	L16050479-12 A 826-A9-SPE	7	1	1		05/12/16 03:10
6M139208	L16050479-10 A 826-A9-SPE	7	1	1		05/12/16 03:42
6M139209	L16050479-02 10X A 826-A9-SPE	7	1	10		05/12/16 04:14
6M139210	L16050479-03 10X A 826-A9-SPE	7	1	10		05/12/16 04:46
6M139211	L16050479-05 10X A 826-A9-SPE	7	1	10		05/12/16 05:19
6M139212	L16050479-06 2X A 826-A9-SPE	7	1	2		05/12/16 05:51
6M139213	L16050479-14 2X A 826-A9-SPE	7	1	2		05/12/16 06:23
6M139214	L16050479-11 20X A 826-A9-SPE	7	1	20		05/12/16 06:55
6M139215	CCV	NA	1	1		05/12/16 07:27
6M139216	RINSE	NA	1	1		05/12/16 07:59

Comments

Seq.	Rerun	Dil.	Reason	Analytes
4	X		Internal standard failure	
File ID: 6M139174				
	First internal was over 1 million. Too high to start out with a curve.			
5	X		Internal standard failure	
File ID: 6M139175				
	First internal still too high. DNR.			
6	X		Internal standard failure	
File ID: 6M139176				
	First internal still too high. DNR. Restart.			
20	X			
File ID: 6M139190				
	Several compounds were high. DNR.			
31	X	10	Over Calibration Range	TCE
File ID: 6M139201				
32	X	1	Carry-over contamination	
File ID: 6M139202				
	Possible TCE carry over.			
38	X	1	Carry-over contamination	
File ID: 6M139208				

Approved: May 13, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 051116
Analyst1: TMB Analyst2: FJB
Method: 8260B SOP: MSV01 Rev: 23
Method: 624 SOP: MSV10 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID: 53746

Internal Standard: STD75822 Surrogate Standard: STD75822
CCV: STD76070; STD76072 LCS: STD76109; STD75801 MS/MSD: STD76055

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG568265; WG568472

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
42	X	10	Over Calibration Range	CIS12-DCE
File ID: 6M139212				
44	X	100	Over Calibration Range	TCE
File ID: 6M139214				

Approved: May 13, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 051316
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 23
Method: 624 SOP: MSV10 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID: 53752

Internal Standard: STD75899 Surrogate Standard: STD75899
CCV: STD76127 LCS: STD76109 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG568561

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M412209	WG568561-01 50ng BFB STD 8260	NA	1	1	STD76034	05/13/16 08:38
8M412210	WG568561-01 50ng BFB STD 8260	NA	1	1	STD76034	05/13/16 08:57
8M412211	WG568561-01 50ng BFB STD 8260	NA	1	1	STD76034	05/13/16 09:29
8M412212	WG568561-01 50ng BFB STD 8260	NA	1	1	STD76034	05/13/16 09:56
8M412213	WG568561-02 50ug/L CCV STD 8260	NA	1	1	STD76127	05/13/16 10:19
8M412214	WG568561-02 50ug/L CCV STD 8260	NA	1	1	STD76127	05/13/16 10:51
8M412215	WG568565-01 100ug/L A9 CCV STD 8260	NA	1	1	STD76072	05/13/16 11:36
8M412216	BFB CHECK	NA	1	1	STD76034	05/13/16 12:04
8M412217	BFB CHECK	NA	1	1	STD76034	05/13/16 12:18
8M412218	WG568561-01 50ng BFB STD 8260	NA	1	1	STD76034	05/13/16 12:36
8M412219	RINSE	NA	1	1		05/13/16 13:00
8M412220	WG568561-02 0.3ug/L STD 8260	NA	1	1	STD76127	05/13/16 13:29
8M412221	WG568561-03 0.4ug/L STD 8260	NA	1	1	STD76127	05/13/16 13:58
8M412222	WG568561-04 1ug/L STD 8260	NA	1	1	STD76127	05/13/16 14:27
8M412223	WG568561-05 2ug/L STD 8260	NA	1	1	STD76127	05/13/16 14:56
8M412224	WG568561-06 5ug/L STD 8260	NA	1	1	STD76127	05/13/16 15:25
8M412225	WG568561-07 20ug/L STD 8260	NA	1	1	STD76127	05/13/16 15:54
8M412226	WG568561-08 50ug/L STD 8260	NA	1	1	STD76127	05/13/16 16:23
8M412227	WG568561-09 100ug/L STD 8260	NA	1	1	STD76127	05/13/16 16:52
8M412228	WG568561-10 200ug/L STD 8260	NA	1	1	STD76127	05/13/16 17:21
8M412229	WG568561-11 300ug/L STD 8260	NA	1	1	STD76127	05/13/16 17:50
8M412230	RINSE	NA	1	1		05/13/16 18:19
8M412231	RINSE	NA	1	1		05/13/16 18:49
8M412232	WG568561-12 50ug/L ALT SRC STD 8260	NA	1	1	STD76109	05/13/16 19:17
8M412233	RINSE	NA	1	1		05/13/16 19:46

Comments

Seq.	Rerun	Dil.	Reason	Analytes
5	X			
File ID: 8M412213				
			Several compounds were low, DNR.	
6				
File ID: 8M412214				

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Microbac Laboratories Inc.

Instrument Run Log

Instrument:	HPMS8	Dataset:	051316		
Analyst1:	TMB	Analyst2:	NA		
Method:	8260B	SOP:	MSV01	Rev:	23
Method:	624	SOP:	MSV10	Rev:	14
Method:	5030B/5030C/5035A	SOP:	PAT01	Rev:	18
Maintenance Log ID:	53752				

Internal Standard: STD75899 Surrogate Standard: STD75899

CCV: STD76127 LCS: STD76109 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA

Workgroups: WG568561

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
			Two C compounds failed. DNR. Run a curve.	
7				
File ID: 8M412215				
			DNR.	

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 051716
Analyst1: TMB Analyst2: FJB
Method: 8260B SOP: MSV01 Rev: 23
Method: 624 SOP: MSV10 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID:

Internal Standard: STD75899 Surrogate Standard: STD75899
CCV: STD76072; STD76127 LCS: STD76109; STD75801 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG569079; WG569083

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M412319	WG569084-01 50ng BFB STD 8260	NA	1	1	STD76034	05/17/16 08:53
8M412320	WG569084-02 50ug/L CCV STD 8260	NA	1	1	STD76127	05/17/16 09:18
8M412321	WG569079-01 100ug/L A9 CCV STD 8260	NA	1	1	STD76072	05/17/16 09:47
8M412322	WG569079-03 50ug/L A9/FOO STD 8260	NA	1	1	STD76072	05/17/16 10:16
8M412323	WG569079-04 20ug/L A9/FOO STD 8260	NA	1	1	STD76072	05/17/16 10:44
8M412324	WG569079-05 5ug/L A9/FOO STD 8260	NA	1	1	STD76072	05/17/16 11:13
8M412325	WG569079-06 200ug/L A9/FOO STD 8260	NA	1	1	STD76072	05/17/16 11:42
8M412326	WG569079-07 300ug/L A9/FOO STD 8260	NA	1	1	STD76072	05/17/16 12:40
8M412327	WG569079-08 400ug/L A9/FOO STD 8260	NA	1	1	STD76072	05/17/16 13:10
8M412328	WG569079-09 500ug/L A9/FOO STD 8260	NA	1	1	STD76072	05/17/16 13:39
8M412329	RINSE	NA	1	1		05/17/16 14:08
8M412330	RINSE	NA	1	1		05/17/16 14:37
8M412331	WG569079-10 100ug/L ALT SRC STD 826	NA	1	1	STD75801	05/17/16 15:06
8M412332	WG569259-01 BFB 50ng 8260	NA	1	1	STD76034	05/17/16 18:27
8M412333	WG569259-02 50ug/L CCV 8260	NA	1	1	STD76034	05/17/16 18:53
8M412334	WG569260-01 100ug/L CCV A9	NA	1	1	STD76072	05/17/16 19:22
8M412335	WG569083-01 VBLK0517 BLANK 8260	NA	1	1		05/17/16 19:51
8M412336	WG569083-02 20ug/L LCS 8260	NA	1	1	STD76109	05/17/16 20:20
8M412337	WG569083-03 20ug/L LCS2 8260	NA	1	1	STD76109	05/17/16 20:49
8M412338	WG569083-04 100ug/L LCS A9	NA	1	1	STD75801	05/17/16 21:18
8M412339	WG569083-05 100ug/L LCS2 A9	NA	1	1	STD75801	05/17/16 21:46
8M412340	L16050844-01 TB A 826-A9-SPE	5	1	1		05/17/16 22:16
8M412341	L16050844-07 EB A 826-A9-SPE	5	1	1		05/17/16 22:45
8M412342	L16050844-11 AB A 826-A9-SPE	5	1	1		05/17/16 23:14
8M412343	L16050844-02 A 826-A9-SPE	6	1	1		05/17/16 23:43
8M412344	L16050844-05 A 826-A9-SPE	6	1	1		05/18/16 00:12
8M412345	L16050844-06 A 826-A9-SPE	6	1	1		05/18/16 00:41
8M412346	L16050844-12 A 826-A9-SPE	6	1	1		05/18/16 01:10
8M412347	L16050840-01 A 826-A9-SPE	7	1	1		05/18/16 01:38
8M412348	L16050844-08 A 826-A9-SPE	7	1	1		05/18/16 02:07
8M412349	L16050844-13 A 826-A9-SPE	7	1	1		05/18/16 02:36
8M412350	L16050844-15 A 826-A9-SPE	7	1	1		05/18/16 03:05
8M412351	L16050839-01 A 826-A9-SPE	7	1	1		05/18/16 03:33
8M412352	L16050844-03 2.5X A 826-A9-SPE	7	1	2.5		05/18/16 04:02

Approved: May 20, 2016

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Instrument Run Log

Instrument: HPMS8 Dataset: 051716
Analyst1: TMB Analyst2: FJB
Method: 8260B SOP: MSV01 Rev: 23
Method: 624 SOP: MSV10 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID:

Internal Standard: STD75899 Surrogate Standard: STD75899
CCV: STD76072; STD76127 LCS: STD76109; STD75801 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG569079; WG569083

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M412353	L16050844-04 5X A 826-A9-SPE	7	1	5		05/18/16 04:31
8M412354	L16050844-09 5X A 826-A9-SPE	7	1	5		05/18/16 05:01
8M412355	L16050844-10 5X A 826-A9-SPE	7	1	5		05/18/16 05:30
8M412356	L16050844-14 50X A 826-A9-SPE	7	1	50		05/18/16 05:59
8M412357	RINSE	NA	1	1		05/18/16 06:28

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2				
File ID: 8M412320				
DNR. Running an a9/foo curve.				
32	X	10	Over Calibration Range	CIS12-DCE
File ID: 8M412350				
40	X	2.5	Analyzed too dilute	
File ID: 8M412353				
DNR.				
37	X	25	Over Calibration Range	TCE
File ID: 8M412355				
38	X	20	Analyzed too dilute	
File ID: 8M412356				
DNR.				

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Sarah Vandenberg

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 052216
Analyst1: FJB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 23
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD76146 Surrogate Standard: STD76146
CCV: STD76214 LCS: STD76207 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG569796

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
6M139516	WG569795-01 BFB 50ng 8260	NA	1	1	STD76034	05/22/16 12:24
6M139517	WG569795-02 50ug/L CCV 8260	NA	1	1	STD76214	05/22/16 12:50
6M139518	WG569795-02 50ug/L CCV 8260	NA	1	1	STD76214	05/22/16 13:23
6M139519	WG569XXX-01 100ug/L CCV A9	NA	1	1	STDXXXXX	05/22/16 13:56
6M139520	WG569796-01 VBLK0522 BLANK 8260	NA	1	1		05/22/16 14:29
6M139521	WG569796-02 20ug/L LCS 8260	NA	1	1	STD76207	05/22/16 15:01
6M139522	WG569796-03 20ug/L LCS2 8260	NA	1	1	STD76207	05/22/16 15:33
6M139523	L16051064-01 2X B 826-SPE 00	<2	1	2		05/22/16 16:05
6M139524	L16050972-09 TB A 826-LOW	<2	1	1		05/22/16 16:37
6M139525	L16050658-01 TB B 826-SPE	<2	1	1		05/22/16 17:09
6M139526	L16050658-13 B 826-SPE	<2	1	1		05/22/16 17:41
6M139527	L16050658-07 50X B 826-SPE 00	<2	1	50		05/22/16 18:14
6M139528	L16050992-01 1000X B 826-SPE D1	7	1	1000		05/22/16 18:46
6M139529	L16050992-02 1000X B 826-SPE D1	7	1	1000		05/22/16 19:18
6M139530	L16050658-09 10X B 826-SPE D1	<2	1	10		05/22/16 19:50
6M139531	L16050658-03 1000X B 826-SPE D1	<2	1	1000		05/22/16 20:22
6M139532	L16050900-04 A 826-SPE	<2	1	1		05/22/16 20:54
6M139533	L16050900-05 A 826-SPE	<2	1	1		05/22/16 21:26
6M139534	L16050900-06 A 826-SPE	<2	1	1		05/22/16 21:59
6M139535	L16050972-05 A 826-SPE	<2	1	1		05/22/16 22:31
6M139536	L16050972-06 A 826-SPE	<2	1	1		05/22/16 23:03
6M139537	L16050972-07 A 826-SPE	<2	1	1		05/22/16 23:35
6M139538	L16050972-08 A 826-SPE	<2	1	1		05/23/16 00:07
6M139539	CCV	NA	1	1		05/23/16 00:39
6M139540	RINSE	NA	1	1		05/23/16 01:11
6M139541	RINSE	NA	1	1		05/23/16 01:43

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
File ID: 6M139517				
			Acetone was low, DNR.	
4				

Approved: May 23, 2016
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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 052216
Analyst1: FJB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 23
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD76146 Surrogate Standard: STD76146
CCV: STD76214 LCS: STD76207 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG569796

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 6M139519				
Not needed, DNR.				
22	X	10	Over Calibration Range	TCE
File ID: 6M139537				
23	X	5	Over Calibration Range	TCE
File ID: 6M139538				

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 052216
Analyst1: FJB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 23
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD75899 Surrogate Standard: STD75899
CCV: STD76232; STD76072 LCS: STD76207; STD75801 MS/MSD: STD76207

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG569794

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
8M412472	WG569792-01 BFB 50ng 8260	NA	1	1	STD76034	05/22/16 12:23
8M412473	WG569792-01 BFB 50ng 8260	NA	1	1	STD76034	05/22/16 12:36
8M412474	WG569792-02 50ug/L CCV 8260	NA	1	1	STD76232	05/22/16 12:59
8M412475	WG569793-01 100ug/L CCV A9	NA	1	1	STD76072	05/22/16 13:28
8M412476	WG569794-01 VBLK0522 BLANK 8260	NA	1	1		05/22/16 13:57
8M412477	WG569794-02 20ug/L LCS 8260	NA	1	1	STD76207	05/22/16 14:26
8M412478	L16050968-05 MS A 826-SPE	NA	1	1	STD76207	05/22/16 14:55
8M412479	L16050968-06 MSD A 826-SPE	NA	1	1	STD76207	05/22/16 15:24
8M412480	WG569794-03 100ug/L LCS A9	NA	1	1	STD75801	05/22/16 15:52
8M412481	L16050968-04 REF A 826-SPE	NA	1	1		05/22/16 16:21
8M412482	L16050995-02 10X B 826-A9-SPE D1	7	1	10		05/22/16 16:50
8M412483	L16050995-03 10X B 826-A9-SPE 00	7	1	10		05/22/16 17:19
8M412484	L16050995-05 5X B 826-A9-SPE 00	7	1	5		05/22/16 17:48
8M412485	L16050993-02 100X B 826-A9-SPE D1	7	1	100		05/22/16 18:17
8M412486	L16050968-11 TB A 826-SPE	<2	1	1		05/22/16 18:47
8M412487	L16050968-01 A 826-SPE	<2	1	1		05/22/16 19:15
8M412488	L16050968-02 A 826-SPE	<2	1	1		05/22/16 19:44
8M412489	L16050968-03 A 826-SPE	<2	1	1		05/22/16 20:13
8M412490	L16050968-07 A 826-SPE	<2	1	1		05/22/16 20:43
8M412491	L16050968-08 A 826-SPE	<2	1	1		05/22/16 21:11
8M412492	L16050968-09 A 826-SPE	<2	1	1		05/22/16 21:40
8M412493	L16050968-10 A 826-SPE	<2	1	1		05/22/16 22:09
8M412494	L16050972-01 A 826-LOW	<2	1	1		05/22/16 22:37
8M412495	L16050972-02 A 826-LOW	<2	1	1		05/22/16 23:05
8M412496	L16050972-03 A 826-LOW	<2	1	1		05/22/16 23:35
8M412497	L16050972-04 A 826-LOW	<2	1	1		05/23/16 00:04
8M412498	CCV	NA	1	1		05/23/16 00:33
8M412499	RINSE	NA	1	1		05/23/16 01:01
8M412500	RINSE	NA	1	1		05/23/16 01:31

Comments

Seq.	Rerun	Dil.	Reason	Analytes
1	X			

Approved: May 24, 2016
Sarah Vandenberg

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 052216
Analyst1: FJB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 23
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18

Maintenance Log ID:

Internal Standard: STD75899 Surrogate Standard: STD75899
CCV: STD76232; STD76072 LCS: STD76207; STD75801 MS/MSD: STD76207

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG569794

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
File ID: 8M412472				
			Tune failed, DNR.	
30				
File ID: 8M412478				
			One surrogate in marginally high.	

Approved: May 24, 2016

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS6 Dataset: 052316
Analyst1: TMB Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 23
Method: 624 SOP: MSV10 Rev: 14
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 18
Maintenance Log ID:

Internal Standard: STD76146 Surrogate Standard: STD76146
CCV: STD76214; STD76072 LCS: STD76254 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG569852

Comments:

File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
6M139542	WG569851-01 50ng BFB STD 8260	NA	1	1	STD76034	05/23/16 09:43
6M139543	WG569851-02 50ug/L CCV STD 8260	NA	1	1	STD76214	05/23/16 10:08
6M139544	WG569851-02 50ug/L CCV STD 8260	NA	1	1	STD76244	05/23/16 10:43
6M139545	WG000000-01 100ug/L a9 CCV STD 8260	NA	1	1	STD76072	05/23/16 11:21
6M139546	WG569852-01 VBLK0523 BLANK STD 826	NA	1	1		05/23/16 11:53
6M139547	L16050281-01 A 826-REF-BLK	<2	1	1		05/23/16 12:26
6M139548	L16050281-02 A 826-REF-BLK	<2	1	1		05/23/16 12:58
6M139549	L16050281-03 A 826-REF-BLK	<2	1	1		05/23/16 13:30
6M139550	L16050281-04 A 826-REF-BLK	<2	1	1		05/23/16 14:02
6M139551	L16050281-05 A 826-REF-BLK	<2	1	1		05/23/16 14:35
6M139552	WG569852-02 20ug/L LCS STD 8260	NA	1	1	STD76254	05/23/16 15:07
6M139553	WG569852-03 20ug/L LCS2 STD 8260	NA	1	1	STD76254	05/23/16 15:39
6M139554	L16050972-07 B 10X 826-LOW D1	<2	1	10		05/23/16 16:11
6M139555	L16050922-03 A TB 826-LOW	<2	1	1		05/23/16 16:44
6M139556	L16050922-01 A 826-LOW	<2	1	1		05/23/16 17:16
6M139557	L16050948-04 A 826-SPE	<2	1	1		05/23/16 17:47
6M139558	L16050972-08 B 5X 826-LOW D1	<2	1	5		05/23/16 18:19
6M139559	L16050795-01 A 10X 826-TC	NA	17	10		05/23/16 18:51
6M139560	L16050921-01 A 10X 826-TC	NA	17	10		05/23/16 19:24
6M139561	L16051013-02 A 10X 826-TC	NA	17	10		05/23/16 19:56
6M139562	L16051013-05 A 10X 826-TC	NA	17	10		05/23/16 20:28
6M139563	L16050808-01 A 10X 826-TC	NA	17	10		05/23/16 21:00
6M139564	RINSE	NA	1	1		05/23/16 21:32
6M139565	RINSE	NA	1	1		05/23/16 22:04
6M139566	RINSE	NA	1	1		05/23/16 22:36
6M139567	WG568953-01 A FBLK 10X 826-TC	NA	17	10		05/23/16 23:08
6M139568	WG569214-01 A FBLK 10X 826-TC	NA	17	10		05/23/16 23:41
6M139569	WG569536-01 A FBLK 10X 826-TC	NA	17	10		05/24/16 00:13

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
File ID: 6M139543				

Approved: May 24, 2016

Page: 1

Microbac Laboratories Inc.

Instrument Run Log

Instrument:	HPMS6	Dataset:	052316		
Analyst1:	TMB	Analyst2:	NA		
Method:	8260B	SOP:	MSV01	Rev:	23
Method:	624	SOP:	MSV10	Rev:	14
Method:	5030B/5030C/5035A	SOP:	PAT01	Rev:	18
Maintenance Log ID:					

Internal Standard: STD76146 Surrogate Standard: STD76146

CCV: STD76214; STD76072 LCS: STD76254 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA

Workgroups: WG569852

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
			Ketones were low, DNR.	
4				
File ID: 6M139545				
			Not needed, DNR.	

Approved: May 24, 2016

Microbac Laboratories Inc.

Data Checklist

Date: 24-APR-2016
Analyst: JDS
Analyst: NA
Method: 8260B/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 74754
Analytical Workgroups: WG566155

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	FJB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
27-APR-2016
Tiffany Bailey

Secondary Reviewer:
29-APR-2016

CHECKLIST1 - Modified 03/05/2008
Generated: APR-29-2016 12:29:57

Microbac Laboratories Inc.

Data Checklist

Date: 11-MAY-2016
Analyst: TMB
Analyst: FJB
Method: 8260B/624/OVAP
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 75043
Analytical Workgroups: WG568265; WG568472

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	WTD
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
12-MAY-2016
Tiffany Bailey

Secondary Reviewer:
13-MAY-2016
Wade D

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-13-2016 12:40:41

Microbac Laboratories Inc.

Data Checklist

Date: 13-MAY-2016
Analyst: TMB
Analyst: NA
Method: 8260B/624
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 75126
Analytical Workgroups: WG568561

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	X
Surrogates	TMB
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	FJB
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
17-MAY-2016
Tiffany Bailey

Secondary Reviewer:
20-MAY-2016

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-20-2016 11:18:36

Microbac Laboratories Inc.

Data Checklist

Date: 17-MAY-2016
Analyst: TMB
Analyst: FJB
Method: 8260B/624
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 75174
Analytical Workgroups: WG569079; WG569083

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	NA
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	SAV
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
19-MAY-2016
Tiffany Bailey

Secondary Reviewer:
20-MAY-2016
Sarah Vandenberg

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-20-2016 11:05:37

Microbac Laboratories Inc.

Data Checklist

Date: 22-MAY-2016
Analyst: FJB
Analyst: NA
Method: 8260B/624
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 75246
Analytical Workgroups: WG569796

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	X
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	X
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	SAV
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
23-MAY-2016
Tiffany Bailey

Secondary Reviewer:
23-MAY-2016
Sarah Vandenberg

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-23-2016 17:08:31

Microbac

Microbac Laboratories Inc.

Data Checklist

Date: 22-MAY-2016
Analyst: FJB
Analyst: NA
Method: 8260B
Instrument: HPMS8
Curve Workgroup: NA
Runlog ID: 75270
Analytical Workgroups: WG569794

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	X
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	X
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	SAV
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
24-MAY-2016
Tiffany Bailey

Secondary Reviewer:
24-MAY-2016
Sarah Vandenberg

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-24-2016 14:10:10

Microbac Laboratories Inc.

Data Checklist

Date: 23-MAY-2016
Analyst: TMB
Analyst: NA
Method: 8260B
Instrument: HPMS6
Curve Workgroup: NA
Runlog ID: 75274
Analytical Workgroups: WG569852

System Performance Check	NA
BFB	X
Initial Calibration	X
Average RF	X
Linear Reg or Higher Order Curve	X
Second Source standard % Difference	X
Continuing Calibration /Check Standards	X
Project/Client Specific Requirements	X
Special Standards	NA
Blanks	X
TCL's	X
Surrogates	X
LCS (Laboratory Control Sample)	X
Recoveries	X
Surrogates	X
MS/MSD/Duplicates	NA
Samples	X
TCL Hits	X
Spectra of TCL Hits	TMB
Surrogates	X
Internal Standards Criteria	X
Library Searches	NA
Calculations & Correct Factors	X
Dilutions Run	X
Reruns	NA
Manual Integrations	NA
Case Narrative	X
Results Reporting/Data Qualifiers	X
KOBRA Workgroup Data	X
Check for Completeness	X
Primary Reviewer	TMB
Secondary Reviewer	WTD
Check for compliance with method and project specific requirements	X
Check the completeness of reported information	X
Check the information for the report narrative	X
Check the reasonableness of the results	X

Primary Reviewer:
24-MAY-2016
Tiffany Bailey

Secondary Reviewer:
24-MAY-2016
Wade D

CHECKLIST1 - Modified 03/05/2008
Generated: MAY-24-2016 13:57:19

Microbac

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B AAB#: WG569794

Login Number: L16050972

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
50WW19T-051316	01	05/13/16					05/22/2016	9.5	14		05/22/16	9.5	14	
50WW19M-051316	02	05/13/16					05/22/2016	9.5	14		05/22/16	9.5	14	
50WW19B-051316	03	05/13/16					05/22/2016	9.5	14		05/22/16	9.5	14	
50WW17T-051316	04	05/13/16					05/23/2016	9.4	14		05/23/16	9.4	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4776135
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG569796

Login Number: L16050972

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
50WW17M-051316	05	05/13/16					05/22/2016	9.4	14		05/22/16	9.4	14	
50WW17B-051316	06	05/13/16					05/22/2016	9.4	14		05/22/16	9.4	14	
50WW13T-051316	07	05/13/16					05/22/2016	9.3	14		05/22/16	9.3	14	
50WW13B-051316	08	05/13/16					05/23/2016	9.3	14		05/23/16	9.3	14	
TRIP BLANK	09	05/13/16					05/22/2016	9.7	14		05/22/16	9.7	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4776135
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.

HOLDING TIMES
EQUIVALENT TO AFCEE FORM 9

Analytical Method: 8260B **AAB#:** WG569852

Login Number: L16050972

Client ID	ID	Date Collected	TCLP Date	Time Held	Max Hold	Q	Extract Date	Time Held	Max Hold	Q	Run Date	Time Held	Max Hold	Q
50WW13T-051316	07	05/13/16					05/23/2016	10	14		05/23/16	10	14	
50WW13B-051316	08	05/13/16					05/23/2016	10.1	14		05/23/16	10.1	14	

* = SEE PROJECT QAPP REQUIREMENTS

HOLD_TIMES - Modified 03/06/2008
PDF File ID: 4776135
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L16050972
Instrument Id: HPMS8
Workgroup (AAB#): WG569794

Method: 8260
CAL ID: HPMS8-13-MAY-16
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L16050972-01	1.00	01	109	107	99.6	104
L16050972-02	1.00	01	110	108	99.6	103
L16050972-03	1.00	01	109	107	98.5	104
L16050972-04	1.00	01	112	109	100	103
WG569794-01	1.00	01	107	105	99.7	104
WG569794-02	1.00	01	107	106	99.1	102
WG569794-03	1.00	02	101	105	97.6	102

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 4776141
Report generated: 05/24/2016 13:57

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L16050972
Instrument Id: HPMS6
Workgroup (AAB#): WG569796

Method: 8260
CAL ID: HPMS6-11-MAY-16
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L16050972-05	1.00	01	98.3	101	97.4	98.3
L16050972-06	1.00	01	98.7	101	97.3	98.3
L16050972-07	1.00	01	98.2	101	96.4	98.4
L16050972-08	1.00	01	97.7	101	96.8	98.3
L16050972-09	1.00	01	96.3	98.8	98.1	98.5
WG569796-01	1.00	01	97.0	99.8	98.2	97.7
WG569796-02	1.00	01	96.0	99.8	93.6	98.5
WG569796-03	1.00	01	96.4	100	93.6	97.9

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 4776141
Report generated: 05/24/2016 13:57

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L16050972
Instrument Id: HPMS6
Workgroup (AAB#): WG569852

Method: 8260
CAL ID: HPMS6-11-MAY-16
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L16050972-07	10.0	DL01	96.2	99.6	96.9	99.0
L16050972-08	5.00	DL01	97.6	101	98.1	98.0
WG569852-01	1.00	01	97.2	101	98.6	97.9
WG569852-02	1.00	01	96.0	99.7	93.9	98.9
WG569852-03	1.00	01	96.9	100	94.0	98.7

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	70	-	120
2 - Dibromofluoromethane	85	-	115
3 - 4-Bromofluorobenzene	75	-	120
4 - Toluene-d8	85	-	120

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 4776141
Report generated: 05/24/2016 13:57

METHOD BLANK SUMMARY

Login Number: L16050972
Work Group: WG569796
Blank File ID: 6M139520
Blank Sample ID: WG569796-01
Prep Date: 05/22/16 14:29
Instrument ID: HPMS6
Analyzed Date: 05/22/16 14:29
Method: 8260B
Analyst: FJB

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG569796-02	6M139521	05/22/16 15:01	01
LCS2	WG569796-03	6M139522	05/22/16 15:33	01
TRIP BLANK	L16050972-09	6M139524	05/22/16 16:37	01
50WW17M-051316	L16050972-05	6M139535	05/22/16 22:31	01
50WW17B-051316	L16050972-06	6M139536	05/22/16 23:03	01
50WW13T-051316	L16050972-07	6M139537	05/22/16 23:35	01
50WW13B-051316	L16050972-08	6M139538	05/23/16 00:07	01

Report Name: BLANK_SUMMARY
PDF File ID: 4777570
Report generated 05/24/2016 13:57

METHOD BLANK SUMMARY

Login Number:	L16050972	**Work Group:**	WG569852
Blank File ID:	6M139546	**Blank Sample ID:**	WG569852-01
Prep Date:	05/23/16 11:53	**Instrument ID:**	HPMS6
Analyzed Date:	05/23/16 11:53	**Method:**	8260B
Analyst:	TMB		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG569852-02	6M139552	05/23/16 15:07	01
LCS2	WG569852-03	6M139553	05/23/16 15:39	01
50WW13T-051316	L16050972-07	6M139554	05/23/16 16:11	DL01
50WW13B-051316	L16050972-08	6M139558	05/23/16 18:19	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 4777570
Report generated 05/24/2016 13:57

METHOD BLANK SUMMARY

Login Number: L16050972
Work Group: WG569794
Blank File ID: 8M412476
Blank Sample ID: WG569794-01
Prep Date: 05/22/16 13:57
Instrument ID: HPMS8
Analyzed Date: 05/22/16 13:57
Method: 8260B
Analyst: FJB

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG569794-02	8M412477	05/22/16 14:26	01
LCS	WG569794-03	8M412480	05/22/16 15:52	02
50WW19T-051316	L16050972-01	8M412494	05/22/16 22:37	01
50WW19M-051316	L16050972-02	8M412495	05/22/16 23:05	01
50WW19B-051316	L16050972-03	8M412496	05/22/16 23:35	01
50WW17T-051316	L16050972-04	8M412497	05/23/16 00:04	01

Report Name: BLANK_SUMMARY
PDF File ID: 4777570
Report generated 05/24/2016 13:57

Login Number:L16050972 Prep Date:05/22/16 14:29 Sample ID:WG569796-01
Instrument ID:HPMS6 Run Date:05/22/16 14:29 Prep Method:5030B/5030C/503
File ID:6M139520 Analyst:FJB Method:8260B
Workgroup (AAB#):WG569796 Matrix:Water Units:ug/L
Contract #: Cal ID: HPMS6-11-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	2.00	0.500	1	U
Bromomethane	0.500	2.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	2.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	2.00	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	2.00	0.500	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	2.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	2.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U
Isopropylbenzene	0.250	1.00	0.250	1	U

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METHOD BLANK REPORT

Login Number: L16050972 Prep Date: 05/22/16 14:29 Sample ID: WG569796-01
Instrument ID: HPMS6 Run Date: 05/22/16 14:29 Prep Method: 5030B/5030C/503
File ID: 6M139520 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG569796 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-11-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	1.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	2.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	2.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	99.8	85 - 115	PASS
1,2-Dichloroethane-d4	97.0	70 - 120	PASS
Toluene-d8	97.7	85 - 120	PASS
4-Bromofluorobenzene	98.2	75 - 120	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
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Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L16050972 Prep Date: 05/23/16 11:53 Sample ID: WG569852-01
Instrument ID: HPMS6 Run Date: 05/23/16 11:53 Prep Method: 5030B/5030C/503
File ID: 6M139546 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG569852 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS6-11-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Trichloroethene	0.250	1.00	0.250	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	101	85 - 115	PASS
1,2-Dichloroethane-d4	97.2	70 - 120	PASS
Toluene-d8	97.9	85 - 120	PASS
4-Bromofluorobenzene	98.6	75 - 120	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
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Login Number:L16050972 Prep Date:05/22/16 13:57 Sample ID:WG569794-01
Instrument ID:HPMS8 Run Date:05/22/16 13:57 Prep Method:5030B/5030C/503
File ID:8M412476 Analyst:FJB Method:8260B
Workgroup (AAB#):WG569794 Matrix:Water Units:ug/L
Contract #: Cal ID: HPMS8-13-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	1.00	0.125	1	U
Bromobenzene	0.125	1.00	0.125	1	U
Bromochloromethane	0.200	1.00	0.200	1	U
Bromodichloromethane	0.250	1.00	0.250	1	U
Bromoform	0.500	2.00	0.500	1	U
Bromomethane	0.500	2.00	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	1.00	0.250	1	U
sec-Butylbenzene	0.250	1.00	0.250	1	U
tert-Butylbenzene	0.250	1.00	0.250	1	U
Carbon disulfide	0.500	2.00	0.500	1	U
Carbon tetrachloride	0.250	1.00	0.250	1	U
Chlorobenzene	0.125	1.00	0.125	1	U
Chlorodibromomethane	0.250	1.00	0.250	1	U
Chloroethane	0.500	2.00	0.500	1	U
Chloroform	0.125	1.00	0.125	1	U
Chloromethane	0.500	2.00	0.500	1	U
2-Chlorotoluene	0.125	1.00	0.125	1	U
4-Chlorotoluene	0.250	1.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	1.00	0.250	1	U
Dibromomethane	0.250	1.00	0.250	1	U
1,2-Dichlorobenzene	0.125	1.00	0.125	1	U
1,3-Dichlorobenzene	0.250	1.00	0.250	1	U
1,4-Dichlorobenzene	0.125	1.00	0.125	1	U
Dichlorodifluoromethane	0.250	1.00	0.250	1	U
1,1-Dichloroethane	0.125	1.00	0.125	1	U
1,2-Dichloroethane	0.250	1.00	0.250	1	U
1,1-Dichloroethene	0.500	2.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	1.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	1.00	0.250	1	U
1,2-Dichloropropane	0.200	1.00	0.200	1	U
1,3-Dichloropropane	0.200	1.00	0.200	1	U
2,2-Dichloropropane	0.250	1.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	1.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	2.00	0.500	1	U
1,1-Dichloropropene	0.250	1.00	0.250	1	U
Ethylbenzene	0.250	1.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	1.00	0.250	1	U
Isopropylbenzene	0.250	1.00	0.250	1	U

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Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L16050972 Prep Date: 05/22/16 13:57 Sample ID: WG569794-01
Instrument ID: HPMS8 Run Date: 05/22/16 13:57 Prep Method: 5030B/5030C/503
File ID: 8M412476 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG569794 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-13-MAY-16

Analytes	DL	LOQ	Concentration	Dilution	Qualifier
p-Isopropyltoluene	0.250	1.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	1.00	0.250	1	U
Naphthalene	0.200	1.00	0.200	1	U
n-Propylbenzene	0.125	1.00	0.125	1	U
Styrene	0.125	1.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	1.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	1.00	0.200	1	U
Tetrachloroethene	0.250	1.00	0.250	1	U
Toluene	0.250	1.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	1.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	1.00	0.200	1	U
1,1,1-Trichloroethane	0.250	1.00	0.250	1	U
1,1,2-Trichloroethane	0.250	1.00	0.250	1	U
Trichloroethene	0.250	1.00	0.250	1	U
Trichlorofluoromethane	0.250	1.00	0.250	1	U
1,2,3-Trichloropropane	0.500	2.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	1.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	1.00	0.250	1	U
Vinyl chloride	0.250	1.00	0.250	1	U
o-Xylene	0.250	1.00	0.250	1	U
m-,p-Xylene	0.500	2.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	105	85 - 115	PASS
1,2-Dichloroethane-d4	107	70 - 120	PASS
Toluene-d8	104	85 - 120	PASS
4-Bromofluorobenzene	99.7	75 - 120	PASS

DL Method Detection Limit
LOQ Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > 1/2 RL

Report Name:BLANK
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050972 Run Date: 05/22/2016 Sample ID: WG569796-02
Instrument ID: HPMS6 Run Time: 15:01 Prep Method: 5030B/5030C/503
File ID: 6M139521 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG569796 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD76207 Cal ID: HPMS6-11-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	15.1	75.5	40 - 140	
Benzene	20.0	19.3	96.4	80 - 120	
Bromobenzene	20.0	19.0	94.9	75 - 125	
Bromochloromethane	20.0	19.8	98.9	65 - 130	
Bromodichloromethane	20.0	19.7	98.4	75 - 120	
Bromoform	20.0	19.5	97.5	70 - 130	
Bromomethane	20.0	15.4	76.8	30 - 145	
2-Butanone	20.0	18.4	91.9	30 - 150	
n-Butylbenzene	20.0	20.5	102	70 - 135	
sec-Butylbenzene	20.0	21.1	106	70 - 125	
tert-Butylbenzene	20.0	20.7	103	70 - 130	
Carbon disulfide	20.0	7.56	37.8	35 - 160	
Carbon tetrachloride	20.0	19.5	97.7	65 - 140	
Chlorobenzene	20.0	20.3	101	80 - 120	
Chlorodibromomethane	20.0	20.7	104	60 - 135	
Chloroethane	20.0	19.7	98.7	60 - 135	
Chloroform	20.0	19.0	94.8	65 - 135	
Chloromethane	20.0	15.5	77.4	40 - 125	
2-Chlorotoluene	20.0	20.2	101	75 - 125	
4-Chlorotoluene	20.0	20.2	101	75 - 130	
1,2-Dibromo-3-chloropropane	20.0	19.0	95.2	50 - 130	
1,2-Dibromoethane	20.0	19.6	98.1	80 - 120	
Dibromomethane	20.0	19.2	95.8	75 - 125	
1,2-Dichlorobenzene	20.0	20.5	102	70 - 120	
1,3-Dichlorobenzene	20.0	20.5	103	75 - 125	
1,4-Dichlorobenzene	20.0	20.4	102	75 - 125	
Dichlorodifluoromethane	20.0	14.8	73.8	30 - 155	
1,1-Dichloroethane	20.0	18.3	91.7	70 - 135	
1,2-Dichloroethane	20.0	19.4	96.8	70 - 130	
1,1-Dichloroethene	20.0	17.9	89.6	70 - 130	
cis-1,2-Dichloroethene	20.0	19.7	98.7	70 - 125	
trans-1,2-Dichloroethene	20.0	19.4	97.2	60 - 140	
1,2-Dichloropropane	20.0	19.7	98.3	75 - 125	
1,3-Dichloropropane	20.0	20.6	103	75 - 125	
2,2-Dichloropropane	20.0	19.7	98.6	70 - 135	
cis-1,3-Dichloropropene	20.0	20.9	105	70 - 130	
trans-1,3-Dichloropropene	20.0	19.6	97.9	55 - 140	
1,1-Dichloropropene	20.0	18.7	93.5	75 - 130	
Ethylbenzene	20.0	19.4	96.8	75 - 125	
2-Hexanone	20.0	18.3	91.3	55 - 130	
Hexachlorobutadiene	20.0	20.7	103	50 - 140	

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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050972 Run Date: 05/22/2016 Sample ID: WG569796-02
Instrument ID: HPMS6 Run Time: 15:01 Prep Method: 5030B/5030C/503
File ID: 6M139521 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG569796 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD76207 Cal ID: HPMS6-11-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Isopropylbenzene	20.0	20.3	102	75 - 125	
p-Isopropyltoluene	20.0	20.6	103	75 - 130	
4-Methyl-2-pentanone	20.0	19.0	95.1	60 - 135	
Methylene chloride	20.0	19.6	98.2	55 - 140	
Naphthalene	20.0	17.7	88.5	55 - 140	
n-Propylbenzene	20.0	20.9	104	70 - 130	
Styrene	20.0	19.5	97.4	65 - 135	
1,1,1,2-Tetrachloroethane	20.0	20.0	100	80 - 130	
1,1,2,2-Tetrachloroethane	20.0	20.5	102	65 - 130	
Tetrachloroethene	20.0	19.1	95.6	45 - 150	
Toluene	20.0	19.5	97.4	75 - 120	
1,2,3-Trichlorobenzene	20.0	19.2	96.2	55 - 140	
1,2,4-Trichlorobenzene	20.0	19.9	99.4	65 - 135	
1,1,1-Trichloroethane	20.0	19.1	95.5	65 - 130	
1,1,2-Trichloroethane	20.0	20.1	100	75 - 125	
Trichloroethene	20.0	19.6	97.9	70 - 125	
Trichlorofluoromethane	20.0	19.7	98.3	60 - 145	
1,2,3-Trichloropropane	20.0	20.6	103	75 - 125	
1,2,4-Trimethylbenzene	20.0	20.1	100	75 - 130	
1,3,5-Trimethylbenzene	20.0	19.9	99.4	75 - 130	
Vinyl chloride	20.0	18.8	94.2	50 - 145	
o-Xylene	20.0	20.0	100	80 - 120	
m-,p-Xylene	40.0	40.1	100	75 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	99.8	85 - 115	PASS
1,2-Dichloroethane-d4	96.0	70 - 120	PASS
Toluene-d8	98.5	85 - 120	PASS
4-Bromofluorobenzene	93.6	75 - 120	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
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Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050972 Run Date: 05/23/2016 Sample ID: WG569852-02
Instrument ID: HPMS6 Run Time: 15:07 Prep Method: 5030B/5030C/503
File ID: 6M139552 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG569852 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD76254 Cal ID: HPMS6-11-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Trichloroethene	20.0	19.1	95.6	70 - 125	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	99.7	85 - 115	PASS
1,2-Dichloroethane-d4	96.0	70 - 120	PASS
Toluene-d8	98.9	85 - 120	PASS
4-Bromofluorobenzene	93.9	75 - 120	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 4777209
Report generated: 05/24/2016 13:57

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050972 Run Date: 05/22/2016 Sample ID: WG569794-02
Instrument ID: HPMS8 Run Time: 14:26 Prep Method: 5030B/5030C/503
File ID: 8M412477 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG569794 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD76207 Cal ID: HPMS8-13-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	21.9	110	40 - 140	
Benzene	20.0	21.2	106	80 - 120	
Bromobenzene	20.0	19.9	99.6	75 - 125	
Bromochloromethane	20.0	20.7	103	65 - 130	
Bromodichloromethane	20.0	22.0	110	75 - 120	
Bromoform	20.0	19.5	97.3	70 - 130	
Bromomethane	20.0	16.1	80.5	30 - 145	
2-Butanone	20.0	19.8	99.1	30 - 150	
n-Butylbenzene	20.0	20.9	104	70 - 135	
sec-Butylbenzene	20.0	21.6	108	70 - 125	
tert-Butylbenzene	20.0	20.7	104	70 - 130	
Carbon disulfide	20.0	21.7	108	35 - 160	
Carbon tetrachloride	20.0	22.4	112	65 - 140	
Chlorobenzene	20.0	20.7	104	80 - 120	
Chlorodibromomethane	20.0	20.2	101	60 - 135	
Chloroethane	20.0	19.7	98.3	60 - 135	
Chloroform	20.0	21.8	109	65 - 135	
Chloromethane	20.0	15.4	77.1	40 - 125	
2-Chlorotoluene	20.0	21.6	108	75 - 125	
4-Chlorotoluene	20.0	20.6	103	75 - 130	
1,2-Dibromo-3-chloropropane	20.0	19.4	97.0	50 - 130	
1,2-Dibromoethane	20.0	19.5	97.7	80 - 120	
Dibromomethane	20.0	19.0	95.1	75 - 125	
1,2-Dichlorobenzene	20.0	21.0	105	70 - 120	
1,3-Dichlorobenzene	20.0	21.1	106	75 - 125	
1,4-Dichlorobenzene	20.0	20.9	105	75 - 125	
Dichlorodifluoromethane	20.0	15.8	78.9	30 - 155	
1,1-Dichloroethane	20.0	20.2	101	70 - 135	
1,2-Dichloroethane	20.0	22.7	113	70 - 130	
1,1-Dichloroethene	20.0	19.4	96.9	70 - 130	
cis-1,2-Dichloroethene	20.0	20.9	105	70 - 125	
trans-1,2-Dichloroethene	20.0	21.0	105	60 - 140	
1,2-Dichloropropane	20.0	20.7	103	75 - 125	
1,3-Dichloropropane	20.0	21.0	105	75 - 125	
2,2-Dichloropropane	20.0	23.9	119	70 - 135	
cis-1,3-Dichloropropene	20.0	23.1	116	70 - 130	
trans-1,3-Dichloropropene	20.0	21.0	105	55 - 140	
1,1-Dichloropropene	20.0	21.1	105	75 - 130	
Ethylbenzene	20.0	20.1	100	75 - 125	
2-Hexanone	20.0	17.8	88.9	55 - 130	
Hexachlorobutadiene	20.0	22.4	112	50 - 140	

LCS - Modified 03/06/2008
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Login Number: L16050972 Run Date: 05/22/2016 Sample ID: WG569794-02
Instrument ID: HPMS8 Run Time: 14:26 Prep Method: 5030B/5030C/503
File ID: 8M412477 Analyst: FJB Method: 8260B
Workgroup (AAB#): WG569794 Matrix: Water Units: ug/L
QC Key: DOD4 Lot#: STD76207 Cal ID: HPMS8-13-MAY-16

Analytes	Expected	Found	% Rec	LCS Limits	Q
Isopropylbenzene	20.0	22.1	110	75 - 125	
p-Isopropyltoluene	20.0	21.4	107	75 - 130	
4-Methyl-2-pentanone	20.0	19.8	98.8	60 - 135	
Methylene chloride	20.0	20.1	101	55 - 140	
Naphthalene	20.0	17.6	88.0	55 - 140	
n-Propylbenzene	20.0	21.8	109	70 - 130	
Styrene	20.0	21.3	107	65 - 135	
1,1,1,2-Tetrachloroethane	20.0	20.7	104	80 - 130	
1,1,2,2-Tetrachloroethane	20.0	18.7	93.5	65 - 130	
Tetrachloroethene	20.0	20.0	99.9	45 - 150	
Toluene	20.0	20.2	101	75 - 120	
1,2,3-Trichlorobenzene	20.0	19.5	97.5	55 - 140	
1,2,4-Trichlorobenzene	20.0	20.2	101	65 - 135	
1,1,1-Trichloroethane	20.0	22.8	114	65 - 130	
1,1,2-Trichloroethane	20.0	19.3	96.5	75 - 125	
Trichloroethene	20.0	22.4	112	70 - 125	
Trichlorofluoromethane	20.0	21.2	106	60 - 145	
1,2,3-Trichloropropane	20.0	19.7	98.5	75 - 125	
1,2,4-Trimethylbenzene	20.0	20.9	104	75 - 130	
1,3,5-Trimethylbenzene	20.0	21.4	107	75 - 130	
Vinyl chloride	20.0	20.1	100	50 - 145	
o-Xylene	20.0	21.2	106	80 - 120	
m-,p-Xylene	40.0	42.1	105	75 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	106	85 - 115	PASS
1,2-Dichloroethane-d4	107	70 - 120	PASS
Toluene-d8	102	85 - 120	PASS
4-Bromofluorobenzene	99.1	75 - 120	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 4777209
Report generated: 05/24/2016 13:57

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050972 Analyst: FJB Prep Method: 5030B/5030C/503
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG569796 Units: ug/L
QC Key: DOD4 Lot #: STD76207

Sample ID: WG569796-02 LCS File ID: 6M139521 Run Date: 05/22/2016 15:01
Sample ID: WG569796-03 LCS2 File ID: 6M139522 Run Date: 05/22/2016 15:33

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
1,1,1,2-Tetrachloroethane	20.0	20.0	100	20.0	20.0	100	0.144	80 - 130	30	
1,1,1-Trichloroethane	20.0	19.1	95.5	20.0	19.3	96.5	0.991	65 - 130	30	
1,1,2,2-Tetrachloroethane	20.0	20.5	102	20.0	20.1	101	1.83	65 - 130	30	
1,1,2-Trichloroethane	20.0	20.1	100	20.0	20.1	101	0.143	75 - 125	30	
1,1-Dichloroethane	20.0	18.3	91.7	20.0	18.4	92.1	0.475	70 - 135	30	
1,1-Dichloroethene	20.0	17.9	89.6	20.0	18.0	90.0	0.420	70 - 130	30	
1,1-Dichloropropene	20.0	18.7	93.5	20.0	18.7	93.4	0.131	75 - 130	30	
1,2,3-Trichlorobenzene	20.0	19.2	96.2	20.0	19.5	97.4	1.24	55 - 140	30	
1,2,3-Trichloropropane	20.0	20.6	103	20.0	20.6	103	0.300	75 - 125	30	
1,2,4-Trichlorobenzene	20.0	19.9	99.4	20.0	19.8	99.1	0.303	65 - 135	30	
1,2,4-Trimethylbenzene	20.0	20.1	100	20.0	20.0	99.9	0.628	75 - 130	30	
1,2-Dibromo-3-chloropropane	20.0	19.0	95.2	20.0	18.9	94.5	0.758	50 - 130	30	
1,2-Dibromoethane	20.0	19.6	98.1	20.0	19.4	97.2	0.954	80 - 120	30	
1,2-Dichlorobenzene	20.0	20.5	102	20.0	20.3	102	0.822	70 - 120	30	
1,2-Dichloroethane	20.0	19.4	96.8	20.0	19.1	95.4	1.48	70 - 130	30	
1,2-Dichloropropane	20.0	19.7	98.3	20.0	19.5	97.5	0.836	75 - 125	30	
1,3,5-Trimethylbenzene	20.0	19.9	99.4	20.0	19.9	99.6	0.156	75 - 130	30	
1,3-Dichlorobenzene	20.0	20.5	103	20.0	20.3	101	1.20	75 - 125	30	
1,3-Dichloropropane	20.0	20.6	103	20.0	20.5	103	0.430	75 - 125	30	
1,4-Dichlorobenzene	20.0	20.4	102	20.0	20.2	101	1.23	75 - 125	30	
2,2-Dichloropropane	20.0	19.7	98.6	20.0	19.4	97.2	1.39	70 - 135	30	
2-Butanone	20.0	18.4	91.9	20.0	18.9	94.4	2.68	30 - 150	30	
2-Chlorotoluene	20.0	20.2	101	20.0	20.2	101	0.158	75 - 125	30	
2-Hexanone	20.0	18.3	91.3	20.0	18.7	93.3	2.11	55 - 130	30	
4-Chlorotoluene	20.0	20.2	101	20.0	20.0	100	1.12	75 - 130	30	
4-Methyl-2-pentanone	20.0	19.0	95.1	20.0	19.5	97.6	2.57	60 - 135	30	
Acetone	20.0	15.1	75.5	20.0	15.5	77.5	2.63	40 - 140	30	
Benzene	20.0	19.3	96.4	20.0	19.4	97.0	0.569	80 - 120	30	
Bromobenzene	20.0	19.0	94.9	20.0	18.8	93.8	1.14	75 - 125	30	
Bromochloromethane	20.0	19.8	98.9	20.0	19.7	98.7	0.143	65 - 130	30	
Bromodichloromethane	20.0	19.7	98.4	20.0	19.4	97.0	1.41	75 - 120	30	
Bromoform	20.0	19.5	97.5	20.0	19.5	97.4	0.0976	70 - 130	30	
Bromomethane	20.0	15.4	76.8	20.0	15.2	76.2	0.879	30 - 145	30	
Carbon disulfide	20.0	7.56	37.8	20.0	7.62	38.1	0.808	35 - 160	30	
Carbon tetrachloride	20.0	19.5	97.7	20.0	19.6	98.0	0.369	65 - 140	30	
Chlorobenzene	20.0	20.3	101	20.0	20.0	99.8	1.57	80 - 120	30	
Chloroethane	20.0	19.7	98.7	20.0	19.6	98.2	0.477	60 - 135	30	
Chloroform	20.0	19.0	94.8	20.0	19.0	95.0	0.253	65 - 135	30	
Chloromethane	20.0	15.5	77.4	20.0	15.8	79.2	2.41	40 - 125	30	
cis-1,2-Dichloroethene	20.0	19.7	98.7	20.0	19.7	98.4	0.324	70 - 125	30	

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 4776137
Report generated: 05/24/2016 13:57

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050972 Analyst: FJB Prep Method: 5030B/5030C/503
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG569796 Units: ug/L
QC Key: DOD4 Lot #: STD76207

Sample ID: WG569796-02 LCS File ID: 6M139521 Run Date: 05/22/2016 15:01
Sample ID: WG569796-03 LCS2 File ID: 6M139522 Run Date: 05/22/2016 15:33

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
cis-1,3-Dichloropropene	20.0	20.9	105	20.0	20.9	105	0.170	70 - 130	30	
Chlorodibromomethane	20.0	20.7	104	20.0	20.3	101	2.19	60 - 135	30	
Dibromomethane	20.0	19.2	95.8	20.0	19.2	95.8	0.0142	75 - 125	30	
Dichlorodifluoromethane	20.0	14.8	73.8	20.0	14.9	74.5	1.03	30 - 155	30	
Ethylbenzene	20.0	19.4	96.8	20.0	19.2	95.9	0.881	75 - 125	30	
Hexachlorobutadiene	20.0	20.7	103	20.0	20.6	103	0.196	50 - 140	30	
Isopropylbenzene	20.0	20.3	102	20.0	20.3	101	0.341	75 - 125	30	
m-,p-Xylene	40.0	40.1	100	40.0	39.7	99.3	0.927	75 - 130	30	
Methylene chloride	20.0	19.6	98.2	20.0	19.3	96.4	1.84	55 - 140	30	
n-Butylbenzene	20.0	20.5	102	20.0	20.4	102	0.326	70 - 135	30	
n-Propylbenzene	20.0	20.9	104	20.0	20.6	103	1.14	70 - 130	30	
Naphthalene	20.0	17.7	88.5	20.0	17.7	88.6	0.139	55 - 140	30	
o-Xylene	20.0	20.0	100	20.0	19.9	99.6	0.523	80 - 120	30	
p-Isopropyltoluene	20.0	20.6	103	20.0	20.6	103	0.107	75 - 130	30	
sec-Butylbenzene	20.0	21.1	106	20.0	21.0	105	0.604	70 - 125	30	
Styrene	20.0	19.5	97.4	20.0	19.4	97.1	0.320	65 - 135	30	
tert-Butylbenzene	20.0	20.7	103	20.0	20.5	103	0.725	70 - 130	30	
Tetrachloroethene	20.0	19.1	95.6	20.0	19.1	95.6	0.0136	45 - 150	30	
Toluene	20.0	19.5	97.4	20.0	19.4	96.8	0.529	75 - 120	30	
trans-1,2-Dichloroethene	20.0	19.4	97.2	20.0	19.2	96.0	1.26	60 - 140	30	
trans-1,3-Dichloropropene	20.0	19.6	97.9	20.0	19.5	97.3	0.678	55 - 140	30	
Trichloroethene	20.0	19.6	97.9	20.0	19.6	97.8	0.134	70 - 125	30	
Trichlorofluoromethane	20.0	19.7	98.3	20.0	19.8	99.0	0.709	60 - 145	30	
Vinyl chloride	20.0	18.8	94.2	20.0	18.6	92.9	1.38	50 - 145	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	96.0	96.4	70 - 120	PASS
Dibromofluoromethane	99.8	100	85 - 115	PASS
4-Bromofluorobenzene	93.6	93.6	75 - 120	PASS
Toluene-d8	98.5	97.9	85 - 120	PASS

* EXCEEDS %REC LIMIT

\# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 4776137
Report generated: 05/24/2016 13:57

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L16050972 Analyst: TMB Prep Method: 5030B/5030C/503
Instrument ID: HPMS6 Matrix: Water Method: 8260B
Workgroup (AAB#): WG569852 Units: ug/L
QC Key: DOD4 Lot #: STD76254

Sample ID: WG569852-02 LCS File ID: 6M139552 Run Date: 05/23/2016 15:07
Sample ID: WG569852-03 LCS2 File ID: 6M139553 Run Date: 05/23/2016 15:39

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Trichloroethene	20.0	19.1	95.6	20.0	19.0	94.9	0.753	70 - 125	30	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
1,2-Dichloroethane-d4	96.0	96.9	70 - 120	PASS
Dibromofluoromethane	99.7	100	85 - 115	PASS
4-Bromofluorobenzene	93.9	94.0	75 - 120	PASS
Toluene-d8	98.9	98.7	85 - 120	PASS

* EXCEEDS %REC LIMIT

\# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 4776137
Report generated: 05/24/2016 13:57

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050972
Instrument: HPMS6
Analyst: JDS
Workgroup: WG566155

Tune ID: WG566155-01
Run Date: 04/24/2016
Run Time: 16:33
File ID: 6M138750
Cal ID: HPMS6-24-APR-16

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.5	10010	PASS
75.0	95.0	30.0	60.0	52.0	23152	PASS
95.0	95.0	100	100	100	44552	PASS
96.0	95.0	5.00	9.00	6.92	3085	PASS
173	174	0	2.00	0.346	113	PASS
174	95.0	50.0	100	73.2	32632	PASS
175	174	5.00	9.00	7.16	2336	PASS
176	174	95.0	101	99.2	32384	PASS
177	176	5.00	9.00	6.95	2251	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG566155-02	STD	01	04/24/2016 16:59	
WG566155-03	STD	01	04/24/2016 17:31	
WG566155-04	STD	01	04/24/2016 18:03	
WG566155-05	STD-CCV	01	04/24/2016 18:36	
WG566155-06	STD	01	04/24/2016 19:08	
WG566155-07	STD	01	04/24/2016 19:40	
WG566155-08	STD	01	04/24/2016 20:12	
WG566155-09	STD	01	04/24/2016 20:44	
WG566155-10	SSCV	01	04/24/2016 22:21	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4776139
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050972
Instrument: HPMS6
Analyst: TMB
Workgroup: WG568265

Tune ID: WG568265-01
Run Date: 05/11/2016
Run Time: 10:08
File ID: 6M139177
Cal ID: HPMS6 - 11-MAY-16

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.6	9547	PASS
75.0	95.0	30.0	60.0	48.4	20449	PASS
95.0	95.0	100	100	100	42216	PASS
96.0	95.0	5.00	9.00	6.70	2828	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	80.4	33962	PASS
175	174	5.00	9.00	7.45	2530	PASS
176	174	95.0	101	97.5	33112	PASS
177	176	5.00	9.00	7.37	2439	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG568265-02	STD	01	05/11/2016 10:40	
WG568265-03	STD	01	05/11/2016 11:12	
WG568265-04	STD	01	05/11/2016 11:45	
WG568265-05	STD	01	05/11/2016 12:16	
WG568265-06	STD	01	05/11/2016 12:48	
WG568265-07	STD	01	05/11/2016 13:20	
WG568265-08	STD-CCV	01	05/11/2016 13:53	
WG568265-09	STD	01	05/11/2016 14:25	
WG568265-11	STD	01	05/11/2016 15:29	
WG568265-12	SSCV	01	05/11/2016 18:17	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4776139
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050972
Instrument: HPMS6
Analyst: FJB
Workgroup: WG569795

Tune ID: WG569795-01
Run Date: 05/22/2016
Run Time: 12:24
File ID: 6M139516
Cal ID: HPMS6 - 11-MAY-16

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.2	9631	PASS
75.0	95.0	30.0	60.0	48.8	21173	PASS
95.0	95.0	100	100	100	43354	PASS
96.0	95.0	5.00	9.00	7.16	3103	PASS
173	174	0	2.00	0.474	163	PASS
174	95.0	50.0	100	79.3	34360	PASS
175	174	5.00	9.00	7.60	2611	PASS
176	174	95.0	101	98.1	33712	PASS
177	176	5.00	9.00	6.57	2214	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG569795-02	CCV	01	05/22/2016 13:23	
WG569796-01	BLANK	01	05/22/2016 14:29	
WG569796-02	LCS	01	05/22/2016 15:01	
WG569796-03	LCS2	01	05/22/2016 15:33	
L16050972-09	TRIP BLANK	01	05/22/2016 16:37	
L16050972-05	50WW17M-051316	01	05/22/2016 22:31	
L16050972-06	50WW17B-051316	01	05/22/2016 23:03	
L16050972-07	50WW13T-051316	01	05/22/2016 23:35	
L16050972-08	50WW13B-051316	01	05/23/2016 00:07	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4776139
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050972
Instrument: HPMS6
Analyst: TMB
Workgroup: WG569851

Tune ID: WG569851-01
Run Date: 05/23/2016
Run Time: 09:43
File ID: 6M139542
Cal ID: HPMS6 - 11-MAY-16

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	22.3	8373	PASS
75.0	95.0	30.0	60.0	48.1	18012	PASS
95.0	95.0	100	100	100	37480	PASS
96.0	95.0	5.00	9.00	6.89	2583	PASS
173	174	0	2.00	0.380	114	PASS
174	95.0	50.0	100	80.1	30010	PASS
175	174	5.00	9.00	7.25	2177	PASS
176	174	95.0	101	99.7	29914	PASS
177	176	5.00	9.00	6.74	2017	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG569851-02	CCV	01	05/23/2016 10:43	
WG569852-01	BLANK	01	05/23/2016 11:53	
WG569852-02	LCS	01	05/23/2016 15:07	
WG569852-03	LCS2	01	05/23/2016 15:39	
L16050972-07	50WW13T-051316	DL01	05/23/2016 16:11	
L16050972-08	50WW13B-051316	DL01	05/23/2016 18:19	
WG568953-01	FBLK1	DL01	05/23/2016 23:08	*
WG569214-01	FBLK1	DL01	05/23/2016 23:41	*
WG569536-01	FBLK1	DL01	05/24/2016 00:13	*

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4776139
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050972
Instrument: HPMS8
Analyst: TMB
Workgroup: WG568561

Tune ID: WG568561-01
Run Date: 05/13/2016
Run Time: 12:36
File ID: 8M412218
Cal ID: HPMS8 -

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	16.7	6575	PASS
75.0	95.0	30.0	60.0	51.3	20171	PASS
95.0	95.0	100	100	100	39312	PASS
96.0	95.0	5.00	9.00	6.74	2649	PASS
173	174	0	2.00	0.363	122	PASS
174	95.0	50.0	100	85.5	33616	PASS
175	174	5.00	9.00	8.17	2746	PASS
176	174	95.0	101	99.2	33360	PASS
177	176	5.00	9.00	6.80	2267	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG568561-02	STD	01	05/13/2016 13:29	
WG568561-03	STD	01	05/13/2016 13:58	
WG568561-04	STD	01	05/13/2016 14:27	
WG568561-05	STD	01	05/13/2016 14:56	
WG568561-06	STD	01	05/13/2016 15:25	
WG568561-07	STD	01	05/13/2016 15:54	
WG568561-08	STD-CCV	01	05/13/2016 16:23	
WG568561-09	STD	01	05/13/2016 16:52	
WG568561-10	STD	01	05/13/2016 17:21	
WG568561-11	STD	01	05/13/2016 17:50	
WG568561-12	SSCV	01	05/13/2016 19:17	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4776139
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050972
Instrument: HPMS8
Analyst: TMB
Workgroup: WG569084

Tune ID: WG569084-01
Run Date: 05/17/2016
Run Time: 08:53
File ID: 8M412319
Cal ID: HPMS8-13-MAY-16

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	19.1	6316	PASS
75.0	95.0	30.0	60.0	54.7	18130	PASS
95.0	95.0	100	100	100	33138	PASS
96.0	95.0	5.00	9.00	6.76	2241	PASS
173	174	0	2.00	0	0	PASS
174	95.0	50.0	100	72.2	23934	PASS
175	174	5.00	9.00	7.88	1886	PASS
176	174	95.0	101	96.8	23159	PASS
177	176	5.00	9.00	7.15	1655	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG569079-01	STD-CCV	01	05/17/2016 09:47	
WG569079-03	STD	01	05/17/2016 10:16	
WG569079-04	STD	01	05/17/2016 10:44	
WG569079-05	STD	01	05/17/2016 11:13	
WG569079-06	STD	01	05/17/2016 11:42	
WG569079-07	STD	01	05/17/2016 12:40	
WG569079-08	STD	01	05/17/2016 13:10	
WG569079-09	STD	01	05/17/2016 13:39	
WG569079-10	SSCV	01	05/17/2016 15:06	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4776139
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
ORGANIC INSTRUMENT CHECK

BFB

Login Number: L16050972
Instrument: HPMS8
Analyst: FJB
Workgroup: WG569792

Tune ID: WG569792-01
Run Date: 05/22/2016
Run Time: 12:36
File ID: 8M412473
Cal ID: HPMS8-13-MAY-16

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50.0	95.0	15.0	40.0	19.1	5272	PASS
75.0	95.0	30.0	60.0	53.8	14858	PASS
95.0	95.0	100	100	100	27642	PASS
96.0	95.0	5.00	9.00	5.79	1600	PASS
173	174	0	2.00	0.707	143	PASS
174	95.0	50.0	100	73.2	20230	PASS
175	174	5.00	9.00	8.77	1774	PASS
176	174	95.0	101	99.7	20179	PASS
177	176	5.00	9.00	6.58	1328	PASS

This check relates to the following samples:

Lab ID	Client ID	Tag	Date Analyzed	Q
WG569792-02	CCV	01	05/22/2016 12:59	
WG569793-01	CCV	01	05/22/2016 13:28	
WG569794-01	BLANK	01	05/22/2016 13:57	
WG569794-02	LCS	01	05/22/2016 14:26	
L16050972-01	50WW19T-051316	01	05/22/2016 22:37	
L16050972-02	50WW19M-051316	01	05/22/2016 23:05	
L16050972-03	50WW19B-051316	01	05/22/2016 23:35	
L16050972-04	50WW17T-051316	01	05/23/2016 00:04	

* Sample past 12 hour tune limit

TUNE - Modified 03/06/2008
PDF File ID: 4776139
Report generated 05/24/2016 13:57

Calibration Table Report
Method: A9FOOWT.M
Title: A9-FOO Water - IC: 042416 - HPMS6
Last Calibration: Wed Apr 27 16:03:33 2016
Curve: WG566155
Calibration Files

	Compound	5 6M138751.D	20 6M138752.D	50 6M138753.D	100 6M138754.D	200 6M138755.D	300 6M138756.D	400 6M138757.D	500 6M138758.D	Avg	%RSD
I	Fluorobenzene	ISTD									
T	Acetonitrile	0.036	0.037	0.039	0.038	0.038	0.038	0.038	0.036	0.037	2.606
T	3-Chloro-1-propene	0.567	0.621	0.656	0.672	0.635	0.622	0.617	0.603	0.624	5.157
T	2-Chloro-1,3-butadiene	0.415	0.507	0.558	0.590	0.558	0.553	0.556	0.548	0.535	10.001
T	Ethyl Acetate	0.229	0.259	0.279	0.281	0.277	0.272	0.279	0.268	0.268	6.419
T	Methacrylonitrile	0.071	0.089	0.099	0.099	0.097	0.095	0.096	0.093	0.092	9.852
T	Isobutyl Alcohol		0.008	0.008	0.007	0.007	0.008	0.010	0.010	0.009	13.654
T	1-Butanol									0.000	0.000
T	Methyl methacrylate	0.159	0.200	0.231	0.244	0.244	0.241	0.246	0.236	0.225	13.591
T	2-Nitropropane			0.079	0.082	0.085	0.085	0.088	0.084	0.084	3.643
I	Chlorobenzene-d5	ISTD									
I	1,4-Dichlorobenzene-d4	ISTD									
T	Cyclohexanone			0.026	0.027	0.032	0.034	0.035	0.033	0.031	12.127

Wed Apr 27 16:05:59 2016

Calibration Table Report
Method: 8260WTR.M
Title: 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Calibration: Thu May 12 09:29:09 2016
Curve: WG568265
Calibration Files

	Compound	0.3 6M139178.D	0.4 6M139179.D	1 6M139180.D	2 6M139181.D	5 6M139182.D	20 6M139183.D	50 6M139184.D	100 6M139185.D	200 6M139186.D	300 6M139187.D	Avg	%RSD	Linear	Quad
I	Fluorobenzene	ISTD													
T	Dichlorodifluoromethane			0.384	0.382	0.369	0.408	0.413	0.426	0.396	0.372	0.394	5.184		
P	Chloromethane			0.685	0.562	0.535	0.524	0.516	0.544	0.508	0.448	0.540	12.500		
C	Vinyl Chloride		0.419	0.417	0.364	0.337	0.332	0.328	0.335	0.310	0.282	0.347	13.198		
T	1,3-Butadiene					0.061	0.052	0.034	0.034	0.032	0.031	0.041	31.194		0.999
T	Bromomethane			0.239	0.202	0.190	0.178	0.179	0.197	0.200	0.185	0.196	9.907		
T	Chloroethane			0.244	0.230	0.218	0.214	0.214	0.228	0.220	0.208	0.222	5.284		
T	Trichlorofluoromethane		0.429	0.466	0.445	0.428	0.440	0.449	0.455	0.432	0.422	0.441	3.264		
T	Diethyl ether			0.248	0.239	0.226	0.222	0.223	0.240		0.235	0.233	4.245		
T	Isoprene					0.213	0.218	0.211	0.231	0.221	0.226	0.220	3.523		
T	Acrolein				0.037	0.036	0.033	0.034	0.034		0.037	0.035	5.049		
T	1,1,2-Trichloro-1,2,2-Trifluoroet			0.267	0.256	0.250	0.240	0.245	0.254	0.249	0.253	0.252	3.183		
T	Acetone					0.119	0.080	0.074	0.072	0.073	0.068	0.081	23.456	0.998	
C	1,1-Dichloroethene		0.477	0.497	0.457	0.451	0.437	0.438	0.451	0.446	0.448	0.456	4.258		
T	Tert-Butyl Alcohol			0.022	0.023	0.023	0.022	0.023	0.023		0.021	0.023	3.421		
T	Dimethyl Sulfide					0.153	0.151	0.148	0.147	0.148	0.145	0.149	1.987		
T	Iodomethane				0.041	0.059	0.112	0.138	0.142	0.137	0.132	0.109	38.212	0.998	
T	Methyl acetate					0.249	0.217	0.206	0.202	0.203	0.202	0.213	8.613		
T	Methylene Chloride			0.296	0.284	0.269	0.256	0.259	0.263	0.263	0.264	0.269	5.153		
T	Carbon Disulfide			0.502	0.490	0.466	0.466	0.452	0.469	0.464	0.465	0.472	3.401		
T	Acrylonitrile			0.088	0.094	0.089	0.090	0.096	0.093		0.103	0.093	5.419		
T	Methyl Tert Butyl Ether			0.717	0.713	0.711	0.674	0.683	0.681	0.691	0.686	0.694	2.414		
T	trans-1,2-Dichloroethene		0.247	0.279	0.275	0.252	0.252	0.257	0.261	0.260	0.263	0.261	4.021		
T	n-Hexane					0.298	0.274	0.265	0.274	0.268	0.272	0.275	4.316		
T	Diisopropyl ether			1.127	1.128	1.057	1.049	1.059	1.033		1.011	1.066	4.209		
T	Vinyl Acetate					0.346	0.324	0.339	0.388	0.383	0.430	0.368	10.668		
P	1,1-Dichloroethane		0.513	0.539	0.535	0.522	0.510	0.509	0.516	0.515	0.520	0.520	2.034		
T	Ethyl-Tert-Butyl ether			0.902	0.925	0.875	0.872	0.879	0.872		0.880	0.886	2.235		
T	2-Butanone					0.130	0.116	0.113	0.109	0.109	0.103	0.113	8.180		
T	Propionitrile			0.032	0.032	0.032	0.031	0.032	0.031		0.029	0.031	4.098		
T	2,2-Dichloropropane		0.397	0.432	0.408	0.403	0.351	0.353	0.368	0.362	0.367	0.382	7.445		
T	cis-1,2-Dichloroethene		0.287	0.302	0.298	0.283	0.279	0.281	0.286	0.286	0.290	0.288	2.622		
C	Chloroform	0.515	0.499	0.502	0.495	0.461	0.452	0.454	0.461	0.461	0.460	0.476	4.984		
T	1-Bromopropane			0.032	0.033	0.040	0.042	0.040	0.041	0.041	0.042	0.039	10.780		
T	Bromochloromethane		0.128	0.159	0.162	0.162	0.158	0.162	0.163	0.164	0.164	0.158	7.350		
T	Tetrahydrofuran			0.106	0.082	0.076	0.073	0.074	0.070		0.071	0.079	15.948	1.000	
S	Dibromofluoromethane				0.272	0.261	0.266	0.257	0.259	0.259	0.264	0.262	2.049		
T	1,1,1-Trichloroethane		0.396	0.435	0.424	0.412	0.407	0.410	0.422	0.419	0.428	0.417	2.856		
T	Cyclohexane			0.451	0.429	0.417	0.412	0.396	0.410	0.406	0.420	0.418	4.035		
T	1,1-Dichloropropene			0.375	0.371	0.362	0.353	0.353	0.361	0.358	0.366	0.362	2.153		
T	Tert-Amyl-Methyl ether			0.693	0.715	0.681	0.677	0.683	0.685		0.700	0.691	1.906		
T	Carbon Tetrachloride		0.35	0.373	0.368	0.357	0.36	0.368	0.385	0.378	0.395	0.3704	3.8425		
S	1,2-Dichloroethane-d4				0.296	0.303	0.301	0.288	0.288	0.286	0.284	0.2923	2.5758		
T	Heptane										0	0	0		
T	1,2-Dichloroethane		0.376	0.363	0.371	0.371	0.358	0.358	0.361	0.367	0.365	0.3655	1.7609		
T	Benzene		1.131	1.14	1.089	1.064	1.01	1.008	1.024	1	0.927	1.0438	6.59		
T	Trichloroethene		0.286	0.281	0.279	0.27	0.268	0.268	0.269	0.269	0.267	0.273	2.5894		
T	Methylcyclohexane					0.367	0.36	0.347	0.361	0.357	0.364	0.3595	1.9207		
C	1,2-Dichloropropane		0.3	0.31	0.297	0.292	0.283	0.285	0.29	0.291	0.289	0.2929	2.849		
T	1,4-Dioxane					0.002	0.002	0.002	0.002		0.002	0.002	6.9396		
T	Bromodichloromethane		0.339	0.36	0.359	0.354	0.347	0.357	0.363	0.367	0.361	0.3564	2.4148		
T	Dibromomethane		0.13	0.143	0.154	0.153	0.146	0.148	0.15	0.153	0.151	0.1476	5.1278		
T	2-Chloroethyl Vinyl Ether				0.14	0.144	0.152	0.152	0.145	0.143	0.132	0.1439	4.7089		
T	4-Methyl-2-Pentanone					0.088	0.089	0.091	0.087	0.09	0.082	0.0878	3.5099		
T	cis-1,3-Dichloropropene		0.415	0.415	0.425	0.416	0.411	0.417	0.423	0.425	0.414	0.4179	1.1911		
T	Dimethyl Disulfide					0.206	0.227	0.227	0.235	0.242	0.242	0.2299	5.8129		
I	Chlorobenzene-d5	ISTD													
S	Toluene-d8				1.282	1.228	1.259	1.204	1.183	1.181	1.275	1.2304	3.4522		
C	Toluene		1.607	1.587	1.564	1.492	1.434	1.449	1.456	1.405	1.341	1.4818	5.999		
T	Ethyl Methacrylate			0.415	0.43	0.422	0.437	0.425	0.427	0.441	0.45	0.4307	2.6246		
T	Paraldehyde										0	0	0		
T	trans-1,3-Dichloropropene			0.471	0.503	0.5	0.493	0.505	0.508	0.519	0.537	0.5044	3.8199		
T	1,1,2-Trichloroethane		0.251	0.288	0.283	0.277	0.269	0.273	0.272	0.276	0.281	0.2746	3.836		
T	2-Hexanone					0.264	0.242	0.24	0.229	0.236	0.231	0.2405	5.2697		
T	1,3-Dichloropropane		0.458	0.519	0.517	0.493	0.477	0.486	0.476	0.483	0.486	0.4882	3.9326		
T	Tetrachloroethene		0.378	0.418	0.403	0.389	0.37	0.374	0.374	0.37	0.394	0.3856	4.3544		
T	Dibromochloromethane		0.276	0.316	0.331	0.336	0.337	0.352	0.356	0.362	0.364	0.3366	8.2282		
T	1,2-Dibromoethane		0.249	0.271	0.268	0.277	0.268	0.274	0.27	0.273	0.273	0.2693	3.0782		
T	1-Chlorohexane		0.543	0.521	0.534	0.504	0.497	0.484	0.5	0.497	0.512	0.5102	3.7341		
P	Chlorobenzene		1.032	1.028	1.013	0.973	0.947	0.967	0.983	0.964	0.929	0.9818	3.6351		
T	1,1,1,2-Tetrachloroethane		0.336	0.35	0.351	0.343	0.347	0.363	0.375	0.38	0.375	0.3577	4.4657		
C	Ethylbenzene		0.51	0.532	0.552	0.528	0.507	0.524	0.541	0.542	0.543	0.5312	2.8969		
T	m-,p-Xylene		0.686	0.679	0.666	0.642	0.611	0.629	0.647	0.619	0.568	0.6387	5.7865		
T	o-Xylene			0.686	0.643	0.621	0.607	0.621	0.638	0.63	0.617	0.6327	3.8491		
T	Styrene		1.063	1.116	1.115	1.087	1.058	1.098	1.141	1.119	1.04	1.0932	3.0737		
P	Bromoform			0.187	0.186	0.196	0.205	0.225	0.237	0.247	0.244	0.2159	11.839		
T	Isopropylbenzene		1.7	1.714	1.678	1.624	1.558	1.596	1.647	1.532	1.35	1.5998	7.0166		
I	1,4-Dichlorobenzene-d4	ISTD													
P	1,1,2,2-Tetrachloroethane		0.535	0.623	0.619	0.613	0.584	0.595	0.596	0.618	0.624	0.6008	4.7256		
S	p-Bromofluorobenzene				0.986	0.945	0.963	0.904	0.87	0.898	0.921	0.9267	4.3507		

T	1,2,3-Trichloropropane			0.175	0.17	0.177	0.172	0.177	0.171	0.18	0.178	0.1751	2.1045
T	trans-1,4-Dichloro-2-Butene			0.177	0.188	0.21	0.218	0.219	0.22	0.231	0.233	0.212	9.3686
T	n-Propylbenzene		3.836	3.937	3.773	3.58	3.404	3.413	3.355	3.063	2.677	3.4489	11.54
T	Bromobenzene	0.978	0.763	0.856	0.836	0.786	0.766	0.766	0.758	0.777	0.78	0.8065	8.4758
T	1,3,5-Trimethylbenzene		2.683	2.702	2.619	2.523	2.399	2.456	2.457	2.387	2.187	2.4903	6.5516
T	2-Chlorotoluene		2.531	2.467	2.374	2.389	2.27	2.202	2.128	2.096	2.15	2.2897	6.8711
T	4-Chlorotoluene		2.487	2.423	2.283	2.119	2.004	2.128	2.206	2.199	1.845	2.1882	9.0518
T	a-Methylstyrene					1.338	1.398	1.373	1.402	1.41	1.376	1.3827	1.9102
T	tert-Butylbenzene			0.574	0.561	0.542	0.527	0.533	0.541	0.541	0.546	0.5457	2.7675
T	1,2,4-Trimethylbenzene			2.772	2.692	2.593	2.49	2.554	2.577	2.483	2.246	2.5509	6.1589
T	sec-Butylbenzene			3.297	3.208	3.132	2.981	3.026	3.039	2.838	2.537	3.0074	7.8709
T	p-Isopropyltoluene			2.789	2.726	2.697	2.56	2.624	2.643	2.495	2.253	2.5985	6.4475
T	1,3-Dichlorobenzene		1.622	1.617	1.598	1.546	1.474	1.5	1.514	1.497	1.44	1.5342	4.2771
T	1,4-Dichlorobenzene	1.8	1.56	1.675	1.582	1.525	1.473	1.505	1.513	1.497	1.429	1.5558	6.9803
T	n-Butylbenzene			2.715	2.6	2.528	2.399	2.489	2.521	2.383	2.156	2.4739	6.7387
T	1,2-Dichlorobenzene	1.669	1.494	1.527	1.479	1.441	1.377	1.411	1.405	1.387	1.335	1.4526	6.5937
T	1,2-Dibromo-3-Chloropropane				0.108	0.105	0.111	0.118	0.115	0.118	0.116	0.1129	4.4522
T	1,2,4-Trichlorobenzene		1.116	1.021	1.062	1.052	1.011	1.027	1.023	1.024	1.006	1.0381	3.3039
T	Hexachlorobutadiene		0.481	0.457	0.506	0.464	0.442	0.438	0.442	0.432	0.435	0.4552	5.4185
T	Naphthalene		2.006	2.115	2.07	2.126	2.062	2.12	2.057	2.029	1.866	2.05	3.9226
T	1,2,3-Trichlorobenzene	1.154	1.022	0.997	0.967	0.952	0.928	0.944	0.936	0.937	0.917	0.9755	7.2383

Thu May 12 12:59:08 2016

Calibration Table Report
Method: 8260WT.M
Title: Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Calibration: Sat May 14 18:08:06 2016
Curve: WG568561
Calibration Files

	Compound	0.3 8M412220.D	0.4 8M412221.D	1 8M412222.D	2 8M412223.D	5 8M412224.D	20 8M412225.D	50 8M412226.D	100 8M412227.D	200 8M412228.D	300 8M412229.D	Avg	%RSD	Linear	Quad
I	Fluorobenzene	ISTD													
T	Dichlorodifluoromethane		0.427	0.390	0.397	0.364	0.468	0.439	0.452	0.427	0.408	0.419	7.751		
P	Chloromethane			0.264	0.257	0.223	0.253	0.240	0.240	0.239	0.241	0.245	5.336		
C	Vinyl Chloride		0.274	0.296	0.297	0.277	0.299	0.292	0.299	0.292	0.288	0.290	3.191		
T	1,3-Butadiene				0.218	0.208	0.242	0.251	0.277	0.254	0.254	0.243	9.644		
T	Bromomethane			0.129	0.133	0.127	0.162	0.167	0.187	0.205	0.212	0.165	20.449		1.000
T	Chloroethane		0.173	0.157	0.153	0.143	0.164	0.157	0.163	0.164	0.164	0.160	5.354		
T	Trichlorofluoromethane		0.544	0.538	0.559	0.506	0.570	0.538	0.551	0.531	0.525	0.540	3.520		
T	Diethyl ether			0.130	0.138	0.123	0.132	0.125	0.128		0.127	0.129	3.866		
T	Isoprene		0.335	0.351	0.334	0.293	0.334	0.320	0.334	0.322	0.329	0.328	4.867		
T	Acrolein				0.012	0.010	0.010	0.011	0.012		0.014	0.012	12.987		
T	1,1,2-Trichloro-1,2,2-Trifluoroethane			0.256	0.269	0.240	0.260	0.249	0.257	0.251	0.250	0.254	3.397		
T	Acetone					0.023	0.030	0.029	0.030	0.028	0.028	0.028	9.132		
C	1,1-Dichloroethene		0.424	0.407	0.406	0.387	0.416	0.398	0.409	0.400	0.393	0.404	2.830		
T	Tert-Butyl Alcohol				0.010	0.009	0.009	0.009	0.009		0.009	0.009	2.872		
T	Dimethyl Sulfide		0.133	0.142	0.152	0.137	0.145	0.142	0.151	0.147	0.151	0.145	4.534		
T	Iodomethane				0.019	0.024	0.066	0.101	0.129	0.135	0.131	0.087	58.244		0.998
T	Methyl acetate					0.075	0.076	0.074	0.078	0.076	0.078	0.076	2.221		
T	Methylene Chloride			0.274	0.265	0.244	0.263	0.250	0.255	0.254	0.252	0.257	3.686		
T	Carbon Disulfide			0.888	0.922	0.801	0.873	0.816	0.854	0.813	0.802	0.846	5.346		
T	Acrylonitrile			0.027	0.035	0.033	0.038	0.038	0.039		0.044	0.036	14.671		
T	Methyl Tert Butyl Ether			0.534	0.543	0.521	0.586	0.579	0.585	0.560	0.546	0.557	4.455		
T	trans-1,2-Dichloroethene		0.389	0.395	0.364	0.352	0.381	0.367	0.372	0.364	0.358	0.371	3.858		
T	n-Hexane					0.265	0.280	0.270	0.286	0.275	0.279	0.276	2.732		
T	Diisopropyl ether			0.600	0.607	0.548	0.588	0.572	0.571		0.567	0.579	3.559		
T	Vinyl Acetate				0.256	0.243	0.270	0.275	0.266	0.271	0.275	0.265	4.509		
P	1,1-Dichloroethane		0.441	0.463	0.486	0.434	0.488	0.464	0.470	0.459	0.447	0.461	4.012		
T	Ethyl-Tert-Butyl ether			0.616	0.645	0.590	0.641	0.628	0.619		0.603	0.620	3.188		
T	2-Butanone					0.035	0.042	0.043	0.045	0.041	0.043	0.041	8.268		
T	Propionitrile			0.010	0.012	0.012	0.013	0.012	0.013		0.013	0.012	8.354		
T	2,2-Dichloropropane		0.471	0.462	0.520	0.476	0.503	0.494	0.497	0.483	0.470	0.486	3.839		
T	cis-1,2-Dichloroethene		0.299	0.298	0.291	0.267	0.295	0.282	0.289	0.283	0.277	0.287	3.685		
C	Chloroform	0.563	0.567	0.581	0.536	0.509	0.566	0.543	0.546	0.529	0.506	0.545	4.619		
T	1-Bromopropane			0.034	0.040	0.040	0.043	0.041	0.043	0.043	0.044	0.041	7.649		
T	Bromochloromethane		0.131	0.164	0.147	0.137	0.154	0.148	0.151	0.148	0.145	0.147	6.598		
T	Tetrahydrofuran			0.034	0.028	0.025	0.026	0.026	0.026		0.026	0.027	11.724		
S	Dibromofluoromethane			0.249	0.261	0.257	0.280	0.271	0.284	0.271	0.275	0.269	4.465		
T	1,1,1-Trichloroethane		0.492	0.537	0.515	0.496	0.545	0.525	0.533	0.515	0.499	0.517	3.660		
T	Cyclohexane			0.373	0.369	0.335	0.359	0.344	0.366	0.356	0.364	0.358	3.619		
T	1,1-Dichloropropene			0.414	0.399	0.369	0.403	0.395	0.399	0.392	0.382	0.394	3.488		
T	Tert-Amyl-Methyl ether			0.567	0.587	0.534	0.576	0.568	0.561		0.549	0.563	3.077		
T	Carbon Tetrachloride		0.444	0.456	0.462	0.441	0.481	0.465	0.474	0.462	0.448	0.4594	2.92173		
S	1,2-Dichloroethane-d4			0.241	0.309	0.276	0.312	0.295	0.301	0.284	0.286	0.288	7.93644		
T	Heptane											0	0		
T	1,2-Dichloroethane		0.347	0.335	0.354	0.336	0.371	0.36	0.364	0.349	0.338	0.3505	3.65503		
T	Benzene		1.128	1.084	1.071	0.977	1.085	1.033	1.019	0.963	0.883	1.0269	7.39343		
T	Trichloroethene		0.285	0.275	0.276	0.251	0.283	0.273	0.279	0.273	0.27	0.2739	3.66126		
T	Methylcyclohexane					0.396	0.426	0.408	0.429	0.416	0.422	0.4161	2.94153		
C	1,2-Dichloropropane		0.239	0.222	0.233	0.207	0.238	0.226	0.233	0.231	0.229	0.2286	4.30096		
T	Bromodichloromethane		0.369	0.382	0.412	0.385	0.426	0.421	0.417	0.41	0.395	0.4018	4.93305		
T	1,4-Dioxane					0.001	0.001	0.001	0.001		0.001	0.0011	14.5817		
T	Dibromomethane		0.141	0.13	0.137	0.128	0.141	0.134	0.137	0.136	0.133	0.1353	3.26799		
T	2-Chloroethyl Vinyl Ether				0.1	0.084	0.103	0.104	0.103	0.095	0.098	0.0983	7.09792		
T	4-Methyl-2-Pentanone					0.033	0.042	0.042	0.043	0.04	0.041	0.0401	8.66859		
T	cis-1,3-Dichloropropene		0.391	0.393	0.386	0.398	0.431	0.428	0.428	0.42	0.405	0.409	4.41527		

T	Dimethyl Disulfide					0.182	0.218	0.221	0.23	0.229	0.23	0.2183	8.49419	
I	Chlorobenzene-d5	ISTD												
S	Toluene-d8			1.282	1.295	1.228	1.385	1.333	1.378	1.289	1.278	1.3084	4.07746	
C	Toluene		1.653	1.696	1.678	1.507	1.647	1.554	1.545	1.418	1.27	1.552	8.98325	
T	Ethyl Methacrylate			0.251	0.293	0.268	0.314	0.314	0.327	0.309	0.31	0.2981	8.76897	
T	Paraldehyde											0	0	
T	trans-1,3-Dichloropropene			0.472	0.51	0.466	0.561	0.552	0.553	0.533	0.515	0.5201	7.01006	
T	1,1,2-Trichloroethane		0.261	0.241	0.242	0.222	0.254	0.249	0.252	0.243	0.241	0.2449	4.54209	
T	2-Hexanone					0.042	0.053	0.053	0.056	0.051	0.053	0.0515	9.50479	
T	1,3-Dichloropropane		0.355	0.442	0.465	0.42	0.468	0.454	0.457	0.437	0.428	0.436	7.93348	
T	Tetrachloroethene		0.355	0.337	0.336	0.306	0.333	0.325	0.337	0.334	0.33	0.3325	3.83886	
T	Dibromochloromethane		0.349	0.336	0.338	0.328	0.373	0.372	0.383	0.373	0.367	0.3576	5.60043	
T	1,2-Dibromoethane		0.233	0.234	0.234	0.227	0.259	0.254	0.258	0.251	0.247	0.2441	5.04151	
T	1-Chlorohexane		0.532	0.584	0.505	0.502	0.54	0.52	0.547	0.521	0.516	0.5298	4.7826	
P	Chlorobenzene		1.029	1.173	1.09	1.007	1.099	1.037	1.043	1.002	0.939	1.0466	6.41465	
T	1,1,1,2-Tetrachloroethane		0.392	0.399	0.403	0.357	0.431	0.414	0.424	0.417	0.413	0.4055	5.39495	
C	Ethylbenzene		0.6	0.594	0.59	0.532	0.586	0.559	0.57	0.564	0.558	0.5726	3.7769	
T	m-,p-Xylene		0.744	0.696	0.691	0.643	0.713	0.67	0.673	0.634	0.581	0.6716	7.12586	
T	o-Xylene			0.691	0.651	0.614	0.692	0.658	0.667	0.65	0.63	0.6567	4.11758	
T	Styrene		1.05	1.06	1.096	1.043	1.159	1.124	1.12	1.061	0.98	1.077	4.96781	
P	Bromoform			0.177	0.21	0.181	0.226	0.221	0.232	0.227	0.223	0.2121	10.0546	
T	Isopropylbenzene		1.853	1.891	1.871	1.708	1.897	1.781	1.75	1.573	1.377	1.7444	9.92447	
I	1,4-Dichlorobenzene-d4	ISTD												
P	1,1,2,2-Tetrachloroethane		0.426	0.492	0.503	0.486	0.543	0.51	0.527	0.513	0.514	0.5018	6.60291	
S	p-Bromofluorobenzene				1.054	0.976	1.071	1.016	1.053	1.031	1.046	1.0352	3.05136	
T	1,2,3-Trichloropropane			0.119	0.158	0.161	0.162	0.155	0.162	0.16	0.158	0.1545	9.40789	
T	trans-1,4-Dichloro-2-Butene			0.085	0.118	0.12	0.149	0.151	0.16	0.159	0.161	0.1376	19.9543	1.000
T	n-Propylbenzene		4.139	4.239	4.243	4.051	4.241	3.953	3.882	3.419	2.935	3.9003	11.4439	
T	Bromobenzene	0.796	0.708	0.843	0.837	0.778	0.84	0.798	0.817	0.803	0.803	0.8022	4.93253	
T	1,3,5-Trimethylbenzene		2.941	2.93	2.941	2.839	3.053	2.882	2.871	2.689	2.423	2.8411	6.50391	
T	2-Chlorotoluene		2.917	2.935	2.929	2.712	2.861	2.795	2.682	2.533	2.145	2.7231	9.37022	
T	4-Chlorotoluene		2.681	2.596	2.581	2.474	2.625	2.326	2.447	2.286	2.121	2.4597	7.49558	
T	a-Methylstyrene					1.257	1.406	1.34	1.384	1.35	1.351	1.3479	3.77654	
T	tert-Butylbenzene			0.587	0.555	0.53	0.571	0.533	0.552	0.561	0.558	0.5558	3.34508	
T	1,2,4-Trimethylbenzene		2.955	3.168	3.127	2.936	3.12	2.914	2.937	2.709	2.427	2.9214	7.97314	
T	sec-Butylbenzene			3.701	3.536	3.487	3.607	3.34	3.332	3.045	2.69	3.3424	9.93324	
T	p-Isopropyltoluene			3.112	3.062	2.903	2.988	2.813	2.809	2.634	2.382	2.8379	8.45265	
T	1,3-Dichlorobenzene		1.484	1.617	1.627	1.53	1.605	1.531	1.549	1.51	1.45	1.5448	3.95774	
T	1,4-Dichlorobenzene	1.713	1.524	1.672	1.594	1.503	1.6	1.511	1.535	1.49	1.431	1.5574	5.56562	
T	n-Butylbenzene			3.143	2.96	2.895	3.002	2.791	2.792	2.571	2.292	2.8056	9.55812	
T	1,2-Dichlorobenzene	1.59	1.307	1.415	1.41	1.322	1.404	1.333	1.356	1.315	1.286	1.3739	6.4618	
T	1,2-Dibromo-3-Chloropropane				0.085	0.103	0.102	0.103	0.106	0.104	0.103	0.1007	6.86771	
T	1,2,4-Trichlorobenzene		1.074	1.01	1.028	0.982	1.069	1.013	1.036	1.029	1.002	1.0269	2.90829	
T	Hexachlorobutadiene		0.516	0.476	0.483	0.447	0.487	0.459	0.48	0.485	0.485	0.4798	4.00465	
T	Naphthalene		1.594	1.457	1.574	1.455	1.63	1.552	1.564	1.485	1.422	1.5258	4.75891	
T	1,2,3-Trichlorobenzene	0.913	0.934	0.905	0.862	0.805	0.877	0.824	0.862	0.846	0.835	0.8664	4.7474	

Tue May 17 11:49:41 2016

Calibration Table Report
Method: A9FOOWT.M
Title: A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Calibration: Thu May 19 08:54:31 2016
Curve: WG569079
Calibration Files

	Compound		5 8M412324.D	20 8M412323.D	50 8M412322.D	100 8M412321.D	200 8M412325.D	300 8M412326.D	400 8M412327.D	500 8M412328.D	Avg	%RSD
I	Fluorobenzene	ISTD										
T	Acetonitrile			0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	2.076
T	3-Chloro-1-propene		0.306	0.330	0.335	0.331	0.324	0.307	0.304	0.304	0.318	4.307
T	2-Chloro-1,3-butadiene		0.368	0.420	0.420	0.419	0.419	0.392	0.389	0.387	0.402	5.022
T	Ethyl Acetate		0.080	0.096	0.097	0.100	0.099	0.098	0.100	0.095	0.096	6.751
T	Methacrylonitrile		0.041	0.054	0.055	0.055	0.055	0.054	0.055	0.052	0.053	9.227
T	Isobutyl Alcohol				0.003	0.003	0.003	0.003	0.003	0.003	0.003	3.599
T	1-Butanol										0.000	0.000
T	Methyl methacrylate		0.089	0.106	0.106	0.105	0.106	0.105	0.107	0.102	0.103	5.868
T	2-Nitropropane			0.041	0.042	0.043	0.046	0.047	0.048	0.046	0.045	5.992
I	Chlorobenzene-d5	ISTD										
I	1,4-Dichlorobenzene-d4	ISTD										
T	Cyclohexanone			0.011	0.010	0.010	0.009	0.010	0.011	0.010	0.010	4.971

Thu May 19 09:04:52 2016

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L16050972 Run Date: 05/11/2016 Sample ID: WG568265-12
Instrument ID: HPMS6 Run Time: 18:17 Method: 8260B
File ID: 6M139191 Analyst: FJB QC Key: DOD4
ICal Workgroup: WG568265 Cal ID: HPMS6 - 11-MAY-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	50.8	ug/L	0.483	1.50	20	
1,1-Dichloroethene	CCC	50.0	50.3	ug/L	0.459	0.700	20	
1,2-Dichloropropane	CCC	50.0	52.5	ug/L	0.308	5.00	20	
Ethylbenzene	CCC	50.0	52.4	ug/L	0.557	4.80	20	
Toluene	CCC	50.0	52.1	ug/L	1.54	4.30	20	
Vinyl Chloride	CCC	50.0	50.0	ug/L	0.347	0	20	
Bromoform	SPCC	50.0	49.2	ug/L	0.212	1.60	20	
Chlorobenzene	SPCC	50.0	52.7	ug/L	1.04	5.50	20	
Chloromethane	SPCC	50.0	47.4	ug/L	0.512	5.10	20	
1,1-Dichloroethane	SPCC	50.0	50.2	ug/L	0.522	0.500	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.5	ug/L	0.595	0.900	20	
Acetone		50.0	50.8	ug/L	0.0763	1.70	20	
Benzene		50.0	52.0	ug/L	1.09	4.00	20	
Bromobenzene		50.0	48.4	ug/L	0.781	3.20	20	
Bromochloromethane		50.0	53.3	ug/L	0.168	6.50	20	
Bromodichloromethane		50.0	52.4	ug/L	0.374	4.90	20	
Bromomethane		50.0	49.7	ug/L	0.195	0.700	20	
2-Butanone		50.0	50.4	ug/L	0.114	0.800	20	
n-Butylbenzene		50.0	52.8	ug/L	2.61	5.50	20	
sec-Butylbenzene		50.0	54.0	ug/L	3.25	8.00	20	
tert-Butylbenzene		50.0	53.0	ug/L	0.578	6.00	20	
Carbon Disulfide		50.0	88.6	ug/L	0.836	77.2	20	*
Carbon Tetrachloride		50.0	54.1	ug/L	0.401	8.20	20	
Dibromochloromethane		50.0	53.0	ug/L	0.356	5.90	20	
Chloroethane		50.0	54.0	ug/L	0.240	8.00	20	
2-Chlorotoluene		50.0	50.4	ug/L	2.31	0.800	20	
4-Chlorotoluene		50.0	53.0	ug/L	2.32	6.00	20	
1,2-Dibromo-3-Chloropropane		50.0	50.2	ug/L	0.113	0.400	20	
1,2-Dibromoethane		50.0	51.0	ug/L	0.275	2.10	20	
Dibromomethane		50.0	49.9	ug/L	0.147	0.300	20	
1,2-Dichlorobenzene		50.0	51.3	ug/L	1.49	2.60	20	
1,3-Dichlorobenzene		50.0	51.0	ug/L	1.56	2.00	20	
1,4-Dichlorobenzene		50.0	51.2	ug/L	1.59	2.40	20	
Dichlorodifluoromethane		50.0	61.6	ug/L	0.485	23.2	20	*
1,2-Dichloroethane		50.0	51.4	ug/L	0.376	2.80	20	
cis-1,2-Dichloroethene		50.0	53.9	ug/L	0.310	7.70	20	
trans-1,2-Dichloroethene		50.0	54.3	ug/L	0.283	8.50	20	
1,3-Dichloropropane		50.0	52.8	ug/L	0.515	5.60	20	
2,2-Dichloropropane		50.0	58.2	ug/L	0.445	16.3	20	
cis-1,3-Dichloropropene		50.0	57.9	ug/L	0.484	15.8	20	
trans-1,3-Dichloropropene		50.0	52.5	ug/L	0.530	5.00	20	
1,1-Dichloropropene		50.0	52.4	ug/L	0.379	4.70	20	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4776138
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L16050972 Run Date: 05/11/2016 Sample ID: WG568265-12
Instrument ID: HPMS6 Run Time: 18:17 Method: 8260B
File ID: 6M139191 Analyst: FJB QC Key: DOD4
ICal Workgroup: WG568265 Cal ID: HPMS6 - 11-MAY-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2-Hexanone		50.0	46.9	ug/L	0.226	6.20	20	
Hexachlorobutadiene		50.0	57.3	ug/L	0.522	14.6	20	
Isopropylbenzene		50.0	53.4	ug/L	1.71	6.80	20	
p-Isopropyltoluene		50.0	53.0	ug/L	2.75	6.00	20	
4-Methyl-2-Pentanone		50.0	49.7	ug/L	0.0872	0.700	20	
Methylene Chloride		50.0	52.3	ug/L	0.282	4.60	20	
Naphthalene		50.0	45.7	ug/L	1.87	8.60	20	
n-Propylbenzene		50.0	53.9	ug/L	3.72	7.80	20	
Styrene		50.0	52.0	ug/L	1.14	4.10	20	
1,1,1,2-Tetrachloroethane		50.0	53.1	ug/L	0.380	6.20	20	
Tetrachloroethene		50.0	51.5	ug/L	0.397	3.00	20	
1,2,3-Trichlorobenzene		50.0	49.6	ug/L	0.968	0.800	20	
1,2,4-Trichlorobenzene		50.0	52.3	ug/L	1.09	4.60	20	
1,1,1-Trichloroethane		50.0	53.4	ug/L	0.445	6.70	20	
1,1,2-Trichloroethane		50.0	50.8	ug/L	0.279	1.70	20	
Trichloroethene		50.0	53.5	ug/L	0.292	6.90	20	
Trichlorofluoromethane		50.0	51.2	ug/L	0.451	2.40	20	
1,2,3-Trichloropropane		50.0	50.3	ug/L	0.176	0.600	20	
1,2,4-Trimethylbenzene		50.0	51.2	ug/L	2.61	2.40	20	
1,3,5-Trimethylbenzene		50.0	51.8	ug/L	2.58	3.60	20	
o-Xylene		50.0	53.1	ug/L	0.672	6.20	20	
m-,p-Xylene		100	106	ug/L	0.680	6.40	20	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4776138
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L16050972 Run Date: 05/13/2016 Sample ID: WG568561-12
Instrument ID: HPMS8 Run Time: 19:17 Method: 8260B
File ID: 8M412232 Analyst: TMB QC Key: DOD4
ICal Workgroup: WG568561 Cal ID: HPMS8 - 13-MAY-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	47.1	ug/L	0.513	5.70	20	
1,1-Dichloroethene	CCC	50.0	46.0	ug/L	0.372	8.10	20	
1,2-Dichloropropane	CCC	50.0	51.0	ug/L	0.233	1.90	20	
Ethylbenzene	CCC	50.0	48.2	ug/L	0.552	3.60	20	
Toluene	CCC	50.0	49.1	ug/L	1.52	1.80	20	
Vinyl Chloride	CCC	50.0	52.4	ug/L	0.304	4.80	20	
Bromoform	SPCC	50.0	48.2	ug/L	0.205	3.60	20	
Chlorobenzene	SPCC	50.0	50.2	ug/L	1.05	0.400	20	
Chloromethane	SPCC	50.0	50.7	ug/L	0.248	1.40	20	
1,1-Dichloroethane	SPCC	50.0	46.7	ug/L	0.431	6.60	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	49.6	ug/L	0.498	0.800	20	
Acetone		50.0	57.5	ug/L	0.0324	15.1	20	
Benzene		50.0	48.5	ug/L	0.997	3.00	20	
Bromobenzene		50.0	49.5	ug/L	0.794	1.10	20	
Bromochloromethane		50.0	47.5	ug/L	0.140	4.90	20	
Bromodichloromethane		50.0	48.3	ug/L	0.388	3.40	20	
Bromomethane		50.0	46.4	ug/L	0.162	7.20	20	
2-Butanone		50.0	53.0	ug/L	0.0438	6.00	20	
n-Butylbenzene		50.0	49.7	ug/L	2.79	0.700	20	
sec-Butylbenzene		50.0	51.3	ug/L	3.43	2.70	20	
tert-Butylbenzene		50.0	50.9	ug/L	0.566	1.90	20	
Carbon Disulfide		50.0	42.3	ug/L	0.716	15.4	20	
Carbon Tetrachloride		50.0	46.2	ug/L	0.425	7.50	20	
Dibromochloromethane		50.0	49.7	ug/L	0.355	0.700	20	
Chloroethane		50.0	53.3	ug/L	0.170	6.70	20	
2-Chlorotoluene		50.0	51.6	ug/L	2.81	3.10	20	
4-Chlorotoluene		50.0	48.3	ug/L	2.37	3.50	20	
1,2-Dibromo-3-Chloropropane		50.0	48.5	ug/L	0.0977	3.00	20	
1,2-Dibromoethane		50.0	51.1	ug/L	0.250	2.20	20	
Dibromomethane		50.0	45.8	ug/L	0.124	8.40	20	
1,2-Dichlorobenzene		50.0	50.5	ug/L	1.39	1.00	20	
1,3-Dichlorobenzene		50.0	50.9	ug/L	1.57	1.80	20	
1,4-Dichlorobenzene		50.0	50.5	ug/L	1.57	0.900	20	
Dichlorodifluoromethane		50.0	54.2	ug/L	0.455	8.40	20	
1,2-Dichloroethane		50.0	49.0	ug/L	0.344	2.00	20	
cis-1,2-Dichloroethene		50.0	48.9	ug/L	0.281	2.20	20	
trans-1,2-Dichloroethene		50.0	48.1	ug/L	0.357	3.90	20	
1,3-Dichloropropane		50.0	53.7	ug/L	0.468	7.30	20	
2,2-Dichloropropane		50.0	47.9	ug/L	0.466	4.20	20	
cis-1,3-Dichloropropene		50.0	53.9	ug/L	0.441	7.80	20	
trans-1,3-Dichloropropene		50.0	50.7	ug/L	0.527	1.30	20	
1,1-Dichloropropene		50.0	47.5	ug/L	0.374	5.10	20	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4776138
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L16050972 Run Date: 05/13/2016 Sample ID: WG568561-12
Instrument ID: HPMS8 Run Time: 19:17 Method: 8260B
File ID: 8M412232 Analyst: TMB QC Key: DOD4
ICal Workgroup: WG568561 Cal ID: HPMS8 - 13-MAY-16

Analyte		Expected	Found	Units	RF	%D	UCL	Q
2-Hexanone		50.0	53.6	ug/L	0.0552	7.20	20	
Hexachlorobutadiene		50.0	52.1	ug/L	0.500	4.20	20	
Isopropylbenzene		50.0	51.1	ug/L	1.78	2.20	20	
p-Isopropyltoluene		50.0	50.1	ug/L	2.85	0.300	20	
4-Methyl-2-Pentanone		50.0	51.9	ug/L	0.0416	3.70	20	
Methylene Chloride		50.0	48.4	ug/L	0.249	3.10	20	
Naphthalene		50.0	45.8	ug/L	1.40	8.40	20	
n-Propylbenzene		50.0	51.9	ug/L	4.05	3.80	20	
Styrene		50.0	51.5	ug/L	1.11	3.00	20	
1,1,1,2-Tetrachloroethane		50.0	49.4	ug/L	0.400	1.20	20	
Tetrachloroethene		50.0	47.8	ug/L	0.318	4.40	20	
1,2,3-Trichlorobenzene		50.0	47.7	ug/L	0.827	4.50	20	
1,2,4-Trichlorobenzene		50.0	50.1	ug/L	1.03	0.200	20	
1,1,1-Trichloroethane		50.0	47.6	ug/L	0.492	4.80	20	
1,1,2-Trichloroethane		50.0	49.0	ug/L	0.240	1.90	20	
Trichloroethene		50.0	51.1	ug/L	0.280	2.10	20	
Trichlorofluoromethane		50.0	46.9	ug/L	0.507	6.10	20	
1,2,3-Trichloropropane		50.0	50.1	ug/L	0.155	0.200	20	
1,2,4-Trimethylbenzene		50.0	49.7	ug/L	2.90	0.700	20	
1,3,5-Trimethylbenzene		50.0	51.6	ug/L	2.93	3.30	20	
o-Xylene		50.0	50.6	ug/L	0.664	1.10	20	
m-,p-Xylene		100	101	ug/L	0.679	1.10	20	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 4776138
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L16050972 Run Date: 05/22/2016 Sample ID: WG569792-02

Instrument ID: HPMS8 Run Time: 12:59 Method: 8260B

File ID: 8M412474 Analyst: FJB QC Key: DOD4

Workgroup (AAB#): WG569794 Cal ID: HPMS8 - 13-MAY-16

Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	55.5	ug/L	0.605	11.1	20	
1,1-Dichloroethene	CCC	50.0	56.7	ug/L	0.458	13.3	20	
1,2-Dichloropropane	CCC	50.0	51.1	ug/L	0.234	2.19	20	
Ethylbenzene	CCC	50.0	52.0	ug/L	0.596	4.10	20	
Toluene	CCC	50.0	52.1	ug/L	1.62	4.25	20	
Vinyl Chloride	CCC	50.0	55.0	ug/L	0.319	9.99	20	
Bromoform	SPCC	50.0	51.0	ug/L	0.216	2.03	20	
Chlorobenzene	SPCC	50.0	51.7	ug/L	1.08	3.39	20	
Chloromethane	SPCC	50.0	47.0	ug/L	0.230	6.04	20	
1,1-Dichloroethane	SPCC	50.0	54.2	ug/L	0.500	8.50	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	44.1	ug/L	0.443	11.8	20	
Xylenes		150	159	ug/L	0.704	6.23	20	
Acetone		50.0	47.9	ug/L	0.0269	4.21	20	
Benzene		50.0	53.7	ug/L	1.10	7.47	20	
Bromobenzene		50.0	49.9	ug/L	0.800	0.285	20	
Bromochloromethane		50.0	52.9	ug/L	0.156	5.84	20	
Bromodichloromethane		50.0	55.8	ug/L	0.448	11.6	20	
Bromomethane		50.0	40.4	ug/L	0.141	19.2	20	
2-Butanone		50.0	44.5	ug/L	0.0368	10.9	20	
n-Butylbenzene		50.0	52.6	ug/L	2.95	5.22	20	
sec-Butylbenzene		50.0	52.6	ug/L	3.51	5.14	20	
tert-Butylbenzene		50.0	51.1	ug/L	0.568	2.15	20	
Carbon Disulfide		50.0	53.7	ug/L	0.908	7.33	20	
Carbon Tetrachloride		50.0	61.0	ug/L	0.560	22.0	20	*
Dibromochloromethane		50.0	51.3	ug/L	0.367	2.60	20	
Chloroethane		50.0	51.8	ug/L	0.166	3.63	20	
2-Chlorotoluene		50.0	51.3	ug/L	2.79	2.62	20	
4-Chlorotoluene		50.0	50.1	ug/L	2.46	0.117	20	
1,2-Dibromo-3-Chloropropane		50.0	45.9	ug/L	0.0924	8.27	20	
1,2-Dibromoethane		50.0	49.0	ug/L	0.239	1.93	20	
Dibromomethane		50.0	50.0	ug/L	0.135	0.0270	20	
1,2-Dichlorobenzene		50.0	48.8	ug/L	1.34	2.39	20	
1,3-Dichlorobenzene		50.0	51.3	ug/L	1.59	2.63	20	
1,4-Dichlorobenzene		50.0	49.4	ug/L	1.54	1.15	20	
Dichlorodifluoromethane		50.0	65.2	ug/L	0.547	30.4	20	*
1,2-Dichloroethane		50.0	55.9	ug/L	0.392	11.8	20	
cis-1,2-Dichloroethene		50.0	53.2	ug/L	0.305	6.43	20	
trans-1,2-Dichloroethene		50.0	54.1	ug/L	0.402	8.27	20	
1,3-Dichloropropane		50.0	49.1	ug/L	0.428	1.86	20	
2,2-Dichloropropane		50.0	62.3	ug/L	0.606	24.6	20	*
cis-1,3-Dichloropropene		50.0	54.1	ug/L	0.443	8.30	20	
trans-1,3-Dichloropropene		50.0	51.8	ug/L	0.539	3.60	20	

CCV - Modified 03/05/2008

PDF File ID: 4776140

Report generated 05/24/2016 13:57

Login Number: L16050972 Run Date: 05/22/2016 Sample ID: WG569792-02
Instrument ID: HPMS8 Run Time: 12:59 Method: 8260B
File ID: 8M412474 Analyst: FJB QC Key: DOD4
Workgroup (AAB#): WG569794 Cal ID: HPMS8 - 13-MAY-16
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	56.3	ug/L	0.444	12.6	20	
2-Hexanone		50.0	40.2	ug/L	0.0414	19.5	20	
Hexachlorobutadiene		50.0	54.3	ug/L	0.521	8.54	20	
Isopropylbenzene		50.0	54.9	ug/L	1.91	9.72	20	
p-Isopropyltoluene		50.0	52.8	ug/L	3.00	5.64	20	
4-Methyl-2-Pentanone		50.0	43.4	ug/L	0.0348	13.3	20	
Methylene Chloride		50.0	51.0	ug/L	0.262	1.95	20	
Naphthalene		50.0	45.5	ug/L	1.39	9.06	20	
n-Propylbenzene		50.0	52.5	ug/L	4.09	4.93	20	
Styrene		50.0	54.1	ug/L	1.16	8.13	20	
1,1,1,2-Tetrachloroethane		50.0	53.5	ug/L	0.434	7.10	20	
Tetrachloroethene		50.0	54.8	ug/L	0.364	9.54	20	
1,2,3-Trichlorobenzene		50.0	46.7	ug/L	0.810	6.56	20	
1,2,4-Trichlorobenzene		50.0	49.9	ug/L	1.02	0.232	20	
1,1,1-Trichloroethane		50.0	60.3	ug/L	0.624	20.5	20	*
1,1,2-Trichloroethane		50.0	47.3	ug/L	0.232	5.45	20	
Trichloroethene		50.0	55.6	ug/L	0.304	11.1	20	
Trichlorofluoromethane		50.0	60.3	ug/L	0.651	20.5	20	*
1,2,3-Trichloropropane		50.0	45.5	ug/L	0.141	9.01	20	
1,2,4-Trimethylbenzene		50.0	52.2	ug/L	3.05	4.40	20	
1,3,5-Trimethylbenzene		50.0	52.9	ug/L	3.01	5.77	20	
o-Xylene		50.0	52.6	ug/L	0.691	5.26	20	
m-,p-Xylene		100	107	ug/L	0.717	6.72	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 4776140
Report generated 05/24/2016 13:57

Login Number: L16050972 Run Date: 05/22/2016 Sample ID: WG569795-02
Instrument ID: HPMS6 Run Time: 13:23 Method: 8260B
File ID: 6M139518 Analyst: FJB QC Key: DOD4
Workgroup (AAB#): WG569796 Cal ID: HPMS6 - 11-MAY-16
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	50.1	ug/L	0.477	0.230	20	
1,1-Dichloroethene	CCC	50.0	50.9	ug/L	0.464	1.71	20	
1,2-Dichloropropane	CCC	50.0	49.7	ug/L	0.291	0.638	20	
Ethylbenzene	CCC	50.0	50.8	ug/L	0.540	1.62	20	
Toluene	CCC	50.0	50.6	ug/L	1.50	1.17	20	
Vinyl Chloride	CCC	50.0	52.7	ug/L	0.366	5.40	20	
Bromoform	SPCC	50.0	54.9	ug/L	0.237	9.83	20	
Chlorobenzene	SPCC	50.0	50.6	ug/L	0.993	1.14	20	
Chloromethane	SPCC	50.0	46.8	ug/L	0.506	6.36	20	
1,1-Dichloroethane	SPCC	50.0	50.9	ug/L	0.529	1.79	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	52.3	ug/L	0.628	4.58	20	
Xylenes		150	153	ug/L	0.645	1.71	20	
Acetone		50.0	43.7	ug/L	0.0664	12.7	20	
Benzene		50.0	50.6	ug/L	1.06	1.25	20	
Bromobenzene		50.0	49.3	ug/L	0.795	1.42	20	
Bromochloromethane		50.0	53.9	ug/L	0.170	7.75	20	
Bromodichloromethane		50.0	51.6	ug/L	0.368	3.25	20	
Bromomethane		50.0	45.6	ug/L	0.179	8.78	20	
2-Butanone		50.0	44.6	ug/L	0.101	10.8	20	
n-Butylbenzene		50.0	53.5	ug/L	2.65	7.08	20	
sec-Butylbenzene		50.0	53.0	ug/L	3.19	5.97	20	
tert-Butylbenzene		50.0	51.5	ug/L	0.563	3.08	20	
Carbon Disulfide		50.0	49.2	ug/L	0.464	1.67	20	
Carbon Tetrachloride		50.0	54.3	ug/L	0.403	8.68	20	
Dibromochloromethane		50.0	54.4	ug/L	0.366	8.77	20	
Chloroethane		50.0	50.6	ug/L	0.225	1.25	20	
2-Chlorotoluene		50.0	52.3	ug/L	2.39	4.59	20	
4-Chlorotoluene		50.0	48.8	ug/L	2.14	2.41	20	
1,2-Dibromo-3-Chloropropane		50.0	48.9	ug/L	0.111	2.10	20	
1,2-Dibromoethane		50.0	51.3	ug/L	0.276	2.50	20	
Dibromomethane		50.0	52.1	ug/L	0.154	4.16	20	
1,2-Dichlorobenzene		50.0	49.9	ug/L	1.45	0.253	20	
1,3-Dichlorobenzene		50.0	50.8	ug/L	1.56	1.56	20	
1,4-Dichlorobenzene		50.0	49.8	ug/L	1.55	0.331	20	
Dichlorodifluoromethane		50.0	58.9	ug/L	0.464	17.8	20	
1,2-Dichloroethane		50.0	49.3	ug/L	0.360	1.47	20	
cis-1,2-Dichloroethene		50.0	51.1	ug/L	0.295	2.29	20	
trans-1,2-Dichloroethene		50.0	52.6	ug/L	0.274	5.18	20	
1,3-Dichloropropane		50.0	49.8	ug/L	0.487	0.318	20	
2,2-Dichloropropane		50.0	54.5	ug/L	0.417	8.90	20	
cis-1,3-Dichloropropene		50.0	51.5	ug/L	0.431	3.08	20	
trans-1,3-Dichloropropene		50.0	51.6	ug/L	0.520	3.16	20	

CCV - Modified 03/05/2008
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Login Number: L16050972 Run Date: 05/22/2016 Sample ID: WG569795-02
Instrument ID: HPMS6 Run Time: 13:23 Method: 8260B
File ID: 6M139518 Analyst: FJB QC Key: DOD4
Workgroup (AAB#): WG569796 Cal ID: HPMS6 - 11-MAY-16
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	51.3	ug/L	0.372	2.64	20	
2-Hexanone		50.0	43.5	ug/L	0.209	13.0	20	
Hexachlorobutadiene		50.0	50.1	ug/L	0.456	0.253	20	
Isopropylbenzene		50.0	51.7	ug/L	1.65	3.33	20	
p-Isopropyltoluene		50.0	53.0	ug/L	2.76	6.03	20	
4-Methyl-2-Pentanone		50.0	46.1	ug/L	0.0810	7.75	20	
Methylene Chloride		50.0	50.8	ug/L	0.273	1.52	20	
Naphthalene		50.0	50.2	ug/L	2.06	0.368	20	
n-Propylbenzene		50.0	52.1	ug/L	3.60	4.27	20	
Styrene		50.0	51.1	ug/L	1.12	2.23	20	
1,1,1,2-Tetrachloroethane		50.0	52.5	ug/L	0.375	4.91	20	
Tetrachloroethene		50.0	51.0	ug/L	0.394	2.05	20	
1,2,3-Trichlorobenzene		50.0	48.9	ug/L	0.954	2.18	20	
1,2,4-Trichlorobenzene		50.0	50.5	ug/L	1.05	1.05	20	
1,1,1-Trichloroethane		50.0	52.1	ug/L	0.434	4.13	20	
1,1,2-Trichloroethane		50.0	51.2	ug/L	0.281	2.36	20	
Trichloroethene		50.0	50.2	ug/L	0.274	0.438	20	
Trichlorofluoromethane		50.0	56.6	ug/L	0.499	13.2	20	
1,2,3-Trichloropropane		50.0	50.8	ug/L	0.178	1.64	20	
1,2,4-Trimethylbenzene		50.0	52.2	ug/L	2.66	4.32	20	
1,3,5-Trimethylbenzene		50.0	51.1	ug/L	2.54	2.14	20	
o-Xylene		50.0	50.2	ug/L	0.635	0.394	20	
m-,p-Xylene		100	102	ug/L	0.654	2.36	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 4776140
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L16050972 Run Date: 05/23/2016 Sample ID: WG569851-02
Instrument ID: HPMS6 Run Time: 10:43 Method: 8260B
File ID: 6M139544 Analyst: TMB QC Key: DOD4
Workgroup (AAB#): WG569852 Cal ID: HPMS6 - 11-MAY-16
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	48.2	ug/L	0.459	3.57	20	
1,1-Dichloroethene	CCC	50.0	48.7	ug/L	0.444	2.58	20	
1,2-Dichloropropane	CCC	50.0	48.3	ug/L	0.283	3.36	20	
Ethylbenzene	CCC	50.0	49.4	ug/L	0.525	1.25	20	
Toluene	CCC	50.0	49.1	ug/L	1.46	1.77	20	
Vinyl Chloride	CCC	50.0	49.8	ug/L	0.346	0.397	20	
Bromoform	SPCC	50.0	53.5	ug/L	0.231	7.03	20	
Chlorobenzene	SPCC	50.0	49.0	ug/L	0.963	1.96	20	
Chloromethane	SPCC	50.0	44.5	ug/L	0.481	11.0	20	
1,1-Dichloroethane	SPCC	50.0	49.5	ug/L	0.514	1.04	20	
1,1,2,2-Tetrachloroethane	SPCC	50.0	50.5	ug/L	0.607	0.965	20	
Trichloroethene		50.0	47.9	ug/L	0.261	4.28	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 4776140
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L16050972
Instrument ID: HPMS8
Workgroup (AAB#): WG569794

ICAL CCV Number: WG568561-08
CAL ID: HPMS8-13-MAY-16
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG568561-08	NA	NA	288225	539116	778260
Upper Limit	NA	NA	576450	1078232	1556520
Lower Limit	NA	NA	144113	269558	389130
L16050972-01	1.00	01	300821	541391	724842
L16050972-02	1.00	01	294630	533633	711611
L16050972-03	1.00	01	295527	530255	700053
L16050972-04	1.00	01	286793	525571	692627
WG569794-01	1.00	01	281901	516752	698177
WG569794-02	1.00	01	295006	534438	716005
WG569794-03	1.00	02	351342	639344	846231

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 4777572
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L16050972
Instrument ID: HPMS6
Workgroup (AAB#): WG569796

ICAL CCV Number: WG568265-08
CAL ID: HPMS6-11-MAY-16
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG568265-08	NA	NA	328042	582993	798515
Upper Limit	NA	NA	656084	1165986	1597030
Lower Limit	NA	NA	164021	291497	399258
L16050972-05	1.00	01	231301	441123	609317
L16050972-06	1.00	01	229795	441029	605089
L16050972-07	1.00	01	234143	442869	610097
L16050972-08	1.00	01	232299	440871	606396
L16050972-09	1.00	01	243538	465427	644189
WG569796-01	1.00	01	241136	467312	642537
WG569796-02	1.00	01	273302	487656	665490
WG569796-03	1.00	01	275393	490201	665687

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 4777572
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.
INTERNAL STANDARD AREA SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number: L16050972
Instrument ID: HPMS6
Workgroup (AAB#): WG569852

ICAL CCV Number: WG568265-08
CAL ID: HPMS6-11-MAY-16
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG568265-08	NA	NA	328042	582993	798515
Upper Limit	NA	NA	656084	1165986	1597030
Lower Limit	NA	NA	164021	291497	399258
L16050972-07	10.0	DL01	239416	456127	635868
L16050972-08	5.00	DL01	240644	456529	621409
WG569852-01	1.00	01	240026	463133	635186
WG569852-02	1.00	01	263709	469200	636634
WG569852-03	1.00	01	265551	474208	646968

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_ICAL - Modified 03/06/2008
PDF File ID: 4777572
Report generated 05/24/2016 13:57

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number:L16050972
Instrument ID:HPMS6
Workgroup (AAB#):WG569796

ICAL CCV Number:WG568265-08
CAL ID: HPMS6-11-MAY-16
Matrix:WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG568265-08	NA	NA	19.65	16.06	11.57
Upper Limit	NA	NA	20.15	16.56	12.07
Lower Limit	NA	NA	19.15	15.56	11.07
L16050972-05	1.00	01	19.65	16.06	11.57
L16050972-06	1.00	01	19.65	16.06	11.57
L16050972-07	1.00	01	19.65	16.06	11.57
L16050972-08	1.00	01	19.65	16.06	11.57
L16050972-09	1.00	01	19.65	16.06	11.57
WG569796-01	1.00	01	19.65	16.06	11.57
WG569796-02	1.00	01	19.65	16.06	11.57
WG569796-03	1.00	01	19.65	16.06	11.57

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 4777573
Report generated: 05/24/2016 13:57

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number:L16050972
Instrument ID:HPMS6
Workgroup (AAB#):WG569852

ICAL CCV Number:WG568265-08
CAL ID: HPMS6-11-MAY-16
Matrix:WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG568265-08	NA	NA	19.65	16.06	11.57
Upper Limit	NA	NA	20.15	16.56	12.07
Lower Limit	NA	NA	19.15	15.56	11.07
L16050972-07	10.0	DL01	19.65	16.06	11.56
L16050972-08	5.00	DL01	19.65	16.06	11.57
WG569852-01	1.00	01	19.64	16.07	11.56
WG569852-02	1.00	01	19.64	16.07	11.56
WG569852-03	1.00	01	19.65	16.06	11.57

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 4777573
Report generated: 05/24/2016 13:57

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO MIDPOINT OF ICAL)

Login Number:L16050972
Instrument ID:HPMS8
Workgroup (AAB#):WG569794

ICAL CCV Number:WG568561-08
CAL ID: HPMS8-13-MAY-16
Matrix:WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG568561-08	NA	NA	17.6	14.58	10.71
Upper Limit	NA	NA	18.1	15.08	11.21
Lower Limit	NA	NA	17.1	14.08	10.21
L16050972-01	1.00	01	17.6	14.57	10.71
L16050972-02	1.00	01	17.6	14.57	10.71
L16050972-03	1.00	01	17.6	14.57	10.71
L16050972-04	1.00	01	17.6	14.58	10.71
WG569794-01	1.00	01	17.6	14.57	10.71
WG569794-02	1.00	01	17.6	14.57	10.71
WG569794-03	1.00	02	17.6	14.58	10.71

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT_ICAL - Modified 03/06/2008
PDF File ID: 4777573
Report generated: 05/24/2016 13:57

2.1.1.3 Sample Data

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412494.D Vial: 22
Acq On : 22 May 2016 22:37 Operator: FJB
Sample : L16050972-01 A 826-LOW Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:18:05 2016 Quant Results File: 8260WT.RES

Quant Method : K:\ORGANICS\V...\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	724842	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	541391	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	300821	25.00	ug/L	0.00

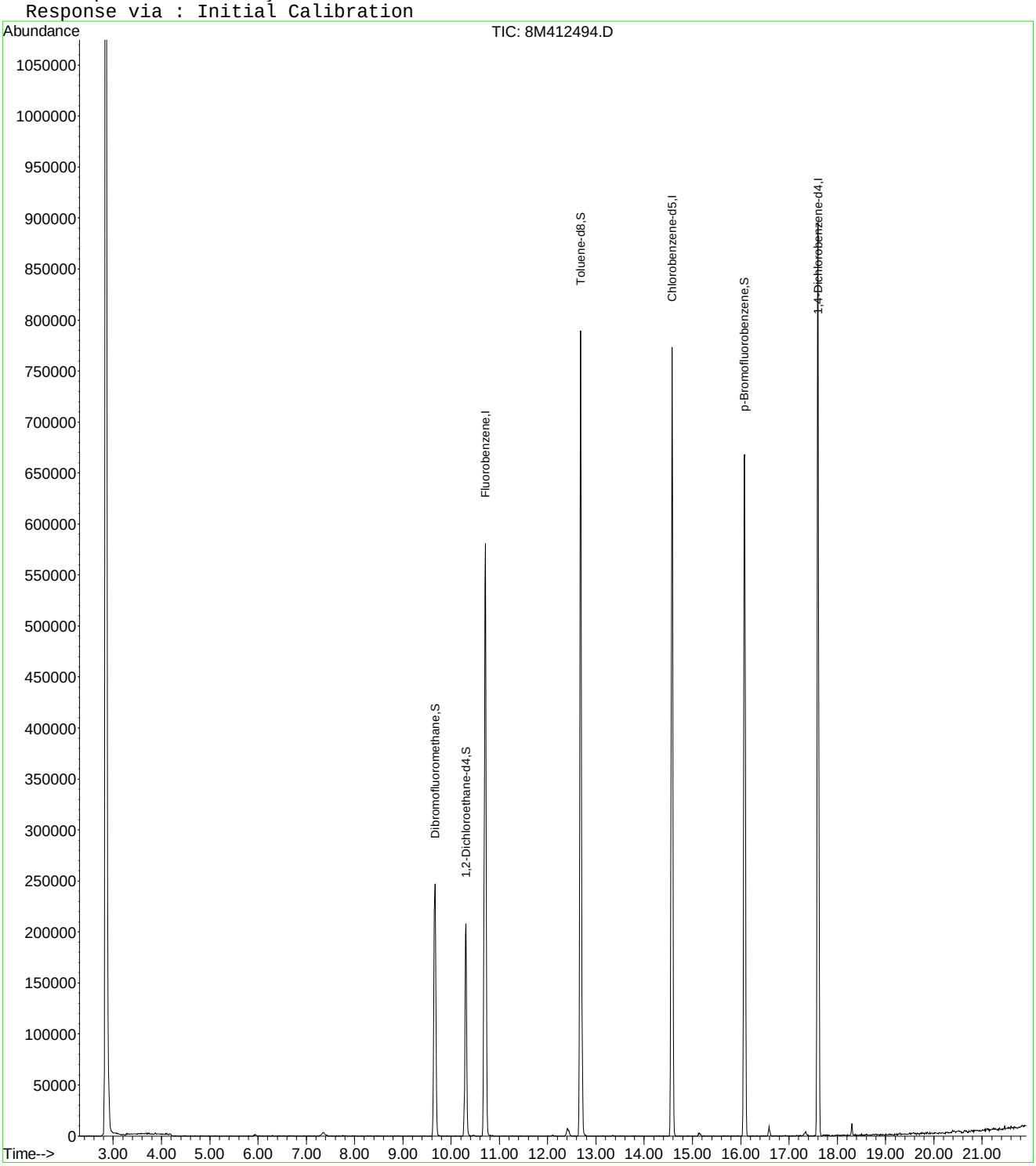
System Monitoring Compounds						
37) Dibromofluoromethane	9.67	111	208805	26.8118	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 107.24%			
43) 1,2-Dichloroethane-d4	10.31	65	228058	27.3108	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 109.24%			
58) Toluene-d8	12.68	98	733688	25.8944	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.56%			
80) p-Bromofluorobenzene	16.07	95	310178	24.9016	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.60%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
8M412494.D 8260WT.M Tue May 24 11:18:08 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412494.D Vial: 22
Acq On : 22 May 2016 22:37 Operator: FJB
Sample : L16050972-01 A 826-LOW Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:17 2016 Quant Results File: 8260WT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412495.D Vial: 23
Acq On : 22 May 2016 23:05 Operator: FJB
Sample : L16050972-02 A 826-LOW Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:18:09 2016 Quant Results File: 8260WT.RES

Quant Method : K:\ORGANICS\V...\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	711611	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	533633	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	294630	25.00	ug/L	0.00

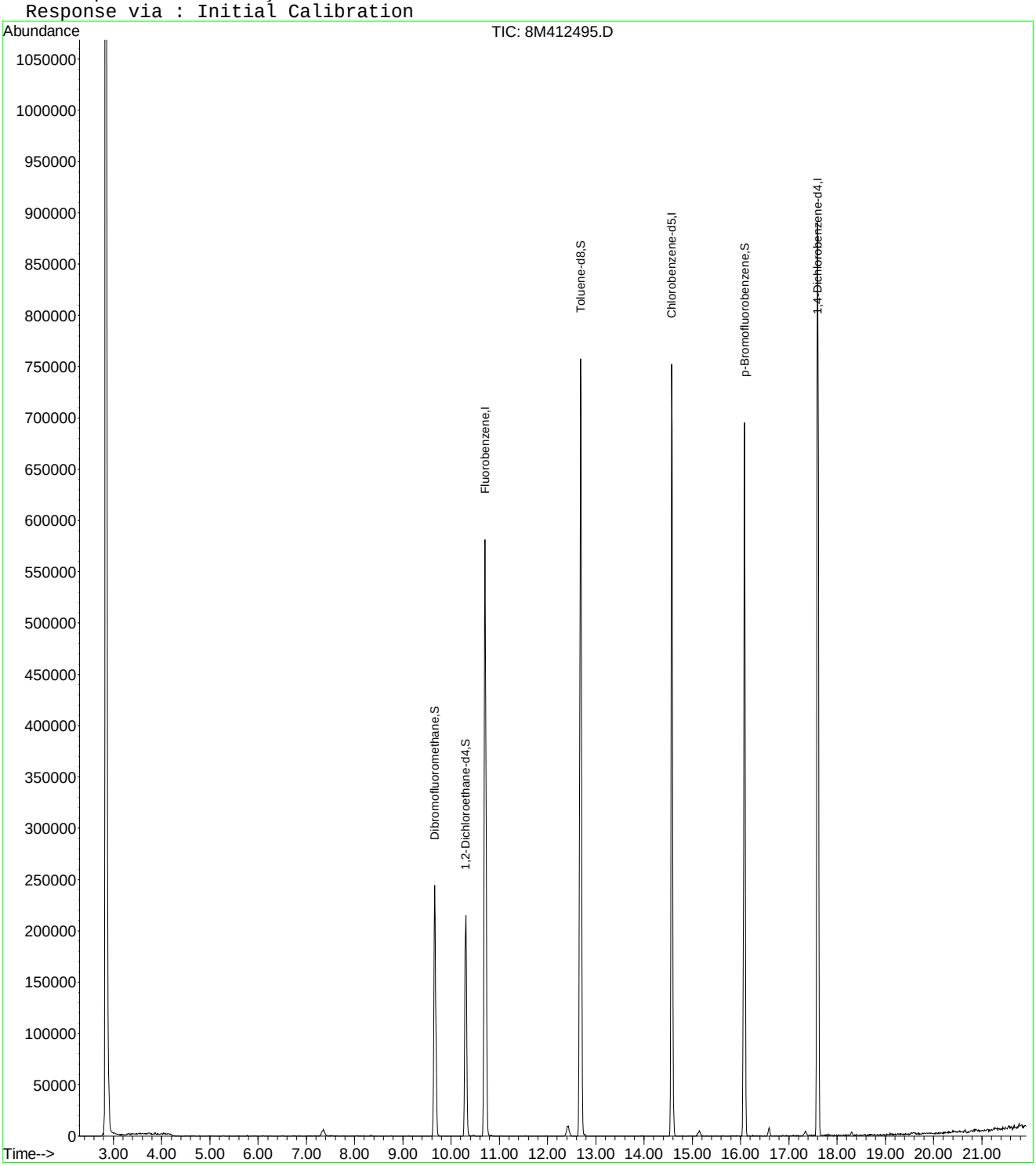
System Monitoring Compounds						
37) Dibromofluoromethane	9.66	111	206434	27.0002	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 108.00%			
43) 1,2-Dichloroethane-d4	10.30	65	225285	27.4803	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 109.92%			
58) Toluene-d8	12.68	98	718274	25.7189	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.88%			
80) p-Bromofluorobenzene	16.08	95	303750	24.8980	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 99.60%			

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration
8M412495.D 8260WT.M Tue May 24 11:18:11 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412495.D Vial: 23
Acq On : 22 May 2016 23:05 Operator: FJB
Sample : L16050972-02 A 826-LOW Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:17 2016 Quant Results File: 8260WT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412496.D Vial: 24
Acq On : 22 May 2016 23:35 Operator: FJB
Sample : L16050972-03 A 826-LOW Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:18:12 2016 Quant Results File: 8260WT.RES

Quant Method : K:\ORGANICS\V...\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	700053	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	530255	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	295527	25.00	ug/L	0.00

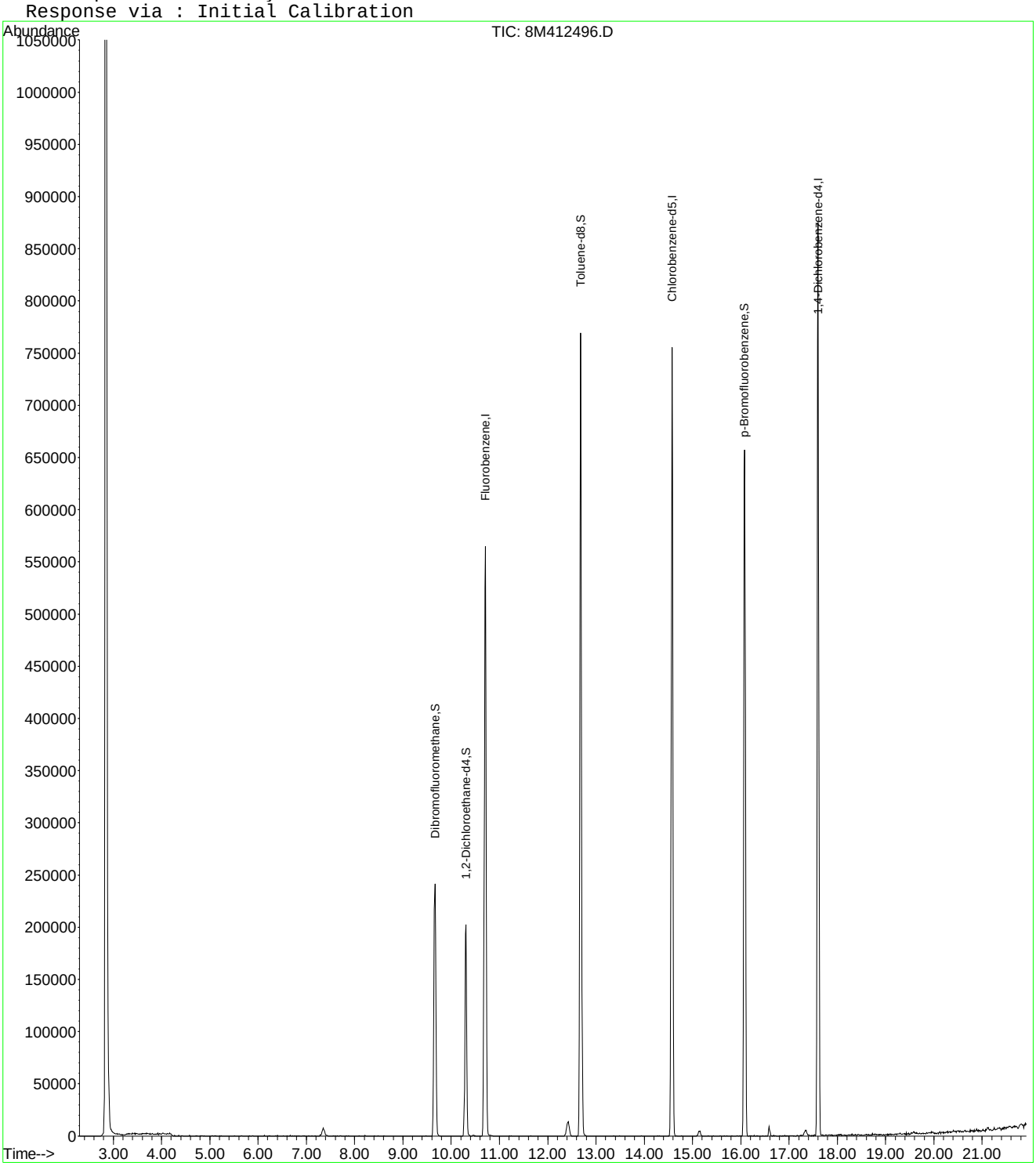
System Monitoring Compounds						
37) Dibromofluoromethane	9.66	111	201698	26.8163	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 107.28%			
43) 1,2-Dichloroethane-d4	10.30	65	220096	27.2906	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 109.16%			
58) Toluene-d8	12.68	98	720982	25.9803	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.92%			
80) p-Bromofluorobenzene	16.07	95	301245	24.6177	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.48%			

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration
8M412496.D 8260WT.M Tue May 24 11:18:14 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412496.D Vial: 24
Acq On : 22 May 2016 23:35 Operator: FJB
Sample : L16050972-03 A 826-LOW Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:17 2016 Quant Results File: 8260WT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412497.D Vial: 25
Acq On : 23 May 2016 00:04 Operator: FJB
Sample : L16050972-04 A 826-LOW Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:18:15 2016 Quant Results File: 8260WT.RES

Quant Method : K:\ORGANICS\V...\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	692627	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	525571	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	286793	25.00	ug/L	0.00

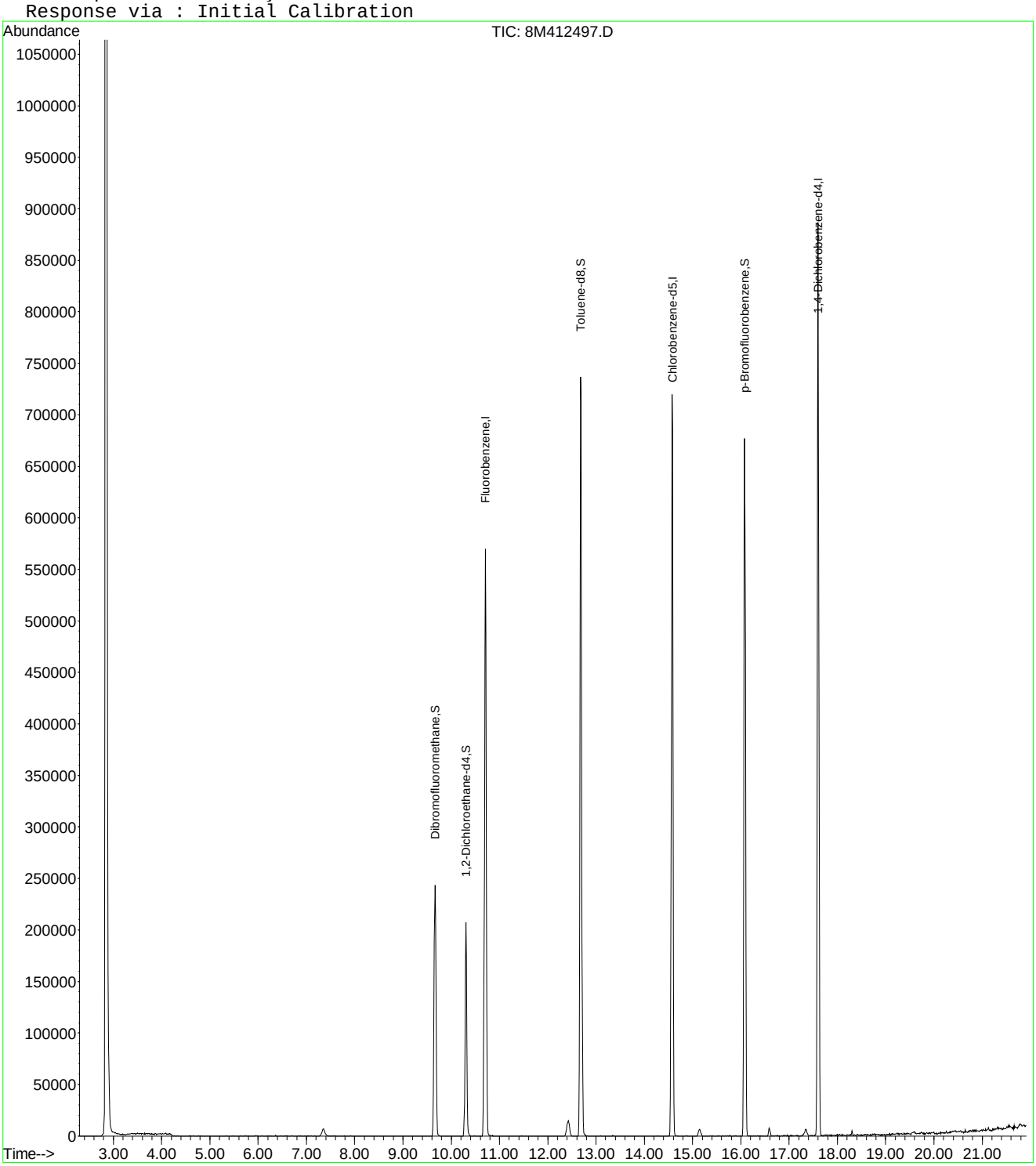
System Monitoring Compounds						
37) Dibromofluoromethane	9.66	111	202272	27.1809	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 108.72%			
43) 1,2-Dichloroethane-d4	10.30	65	223061	27.9548	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.80%			
58) Toluene-d8	12.68	98	705459	25.6475	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 102.60%			
80) p-Bromofluorobenzene	16.08	95	297858	25.0822	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.32%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
8M412497.D 8260WT.M Tue May 24 11:18:17 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412497.D Vial: 25
Acq On : 23 May 2016 00:04 Operator: FJB
Sample : L16050972-04 A 826-LOW Inst : HPMS8
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 11:17 2016 Quant Results File: 8260WT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\052216\6M139535.D Vial: 20
Acq On : 22 May 2016 22:31 Operator: FJB
Sample : L16050972-05 A 826-SPE Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 08:37:06 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

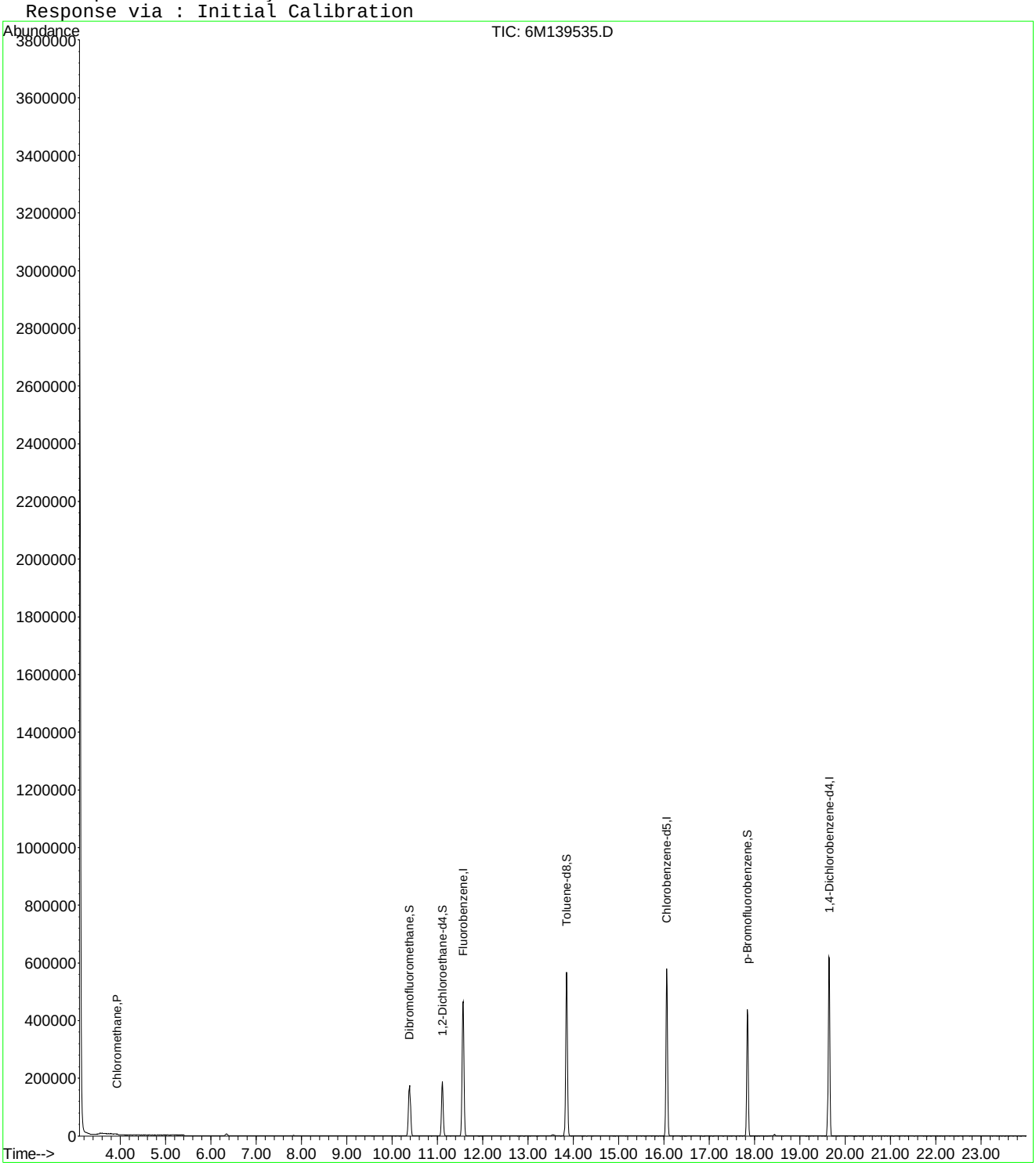
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	609317	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.06	117	441123	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	231301	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.39	111	161935	25.3170 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.28%		
43) 1,2-Dichloroethane-d4	11.11	65	175142	24.5842 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.32%		
58) Toluene-d8	13.85	98	533416	24.5707 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.28%		
80) p-Bromofluorobenzene	17.84	95	208757	24.3479 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.40%		
Target Compounds					Qvalue
3) Chloromethane	3.93	50	1938	0.1473 ug/L #	47
13) Acetone	6.65	43	2111	Below Cal #	48

(#) = qualifier out of range (m) = manual integration
6M139535.D 8260WTR.M Mon May 23 08:37:06 2016 Page 1

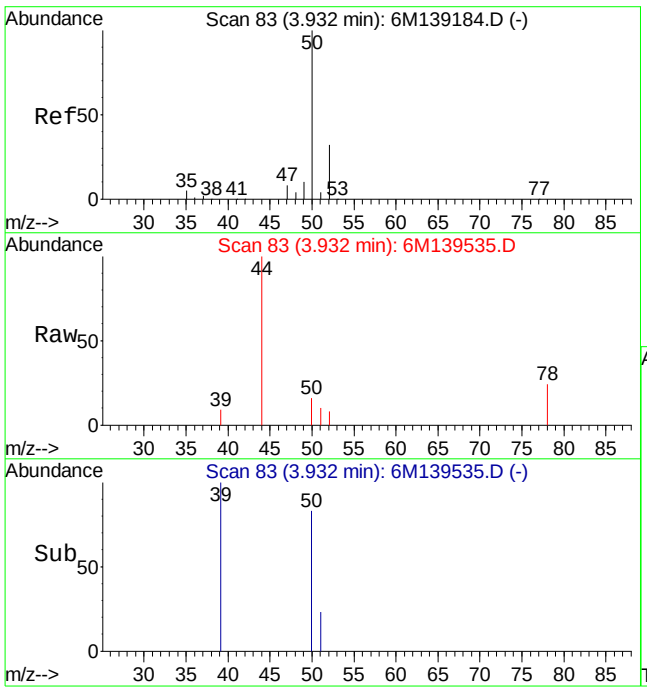
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052216\6M139535.D Vial: 20
Acq On : 22 May 2016 22:31 Operator: FJB
Sample : L16050972-05 A 826-SPE Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 8:37 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration



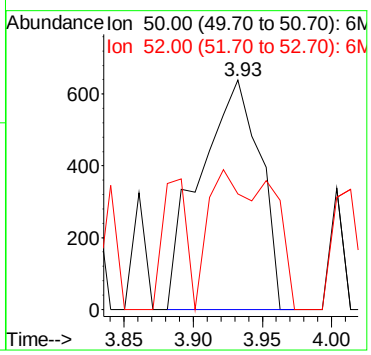
6M139535.D 8260WTR.M Mon May 23 08:37:07 2016 Page 2

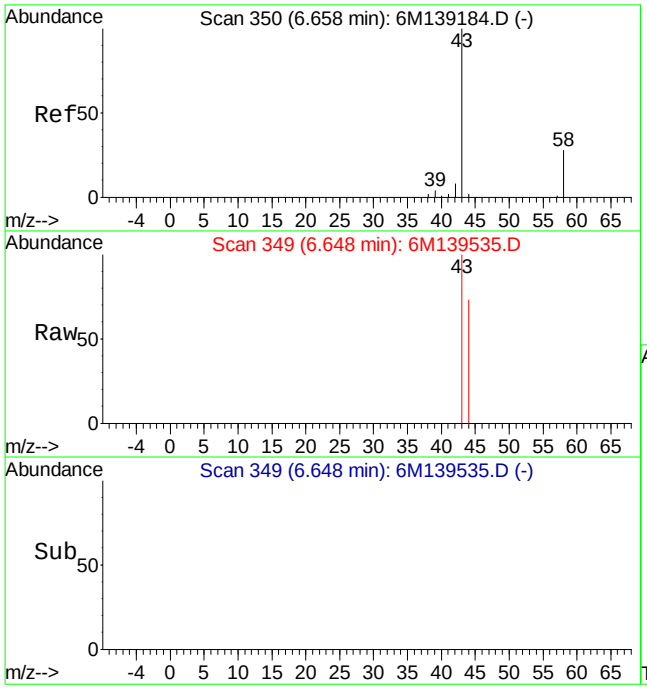


#3
Chloromethane
Concen: 0.15 ug/L
RT: 3.93 min Scan# 83
Delta R.T. 0.00 min
Lab File: 6M139535.D
Acq: 22 May 2016 22:31

Tgt Ion: 50 Resp: 1938

Ion	Ratio	Lower	Upper
50	100		
52	62.8	19.8	46.2#

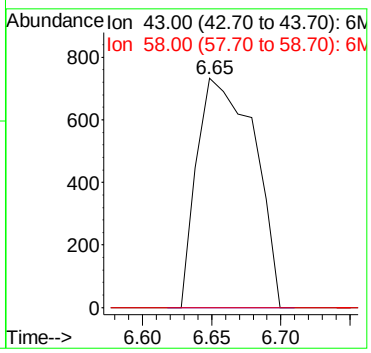




#13
Acetone
Concen: Below Cal
RT: 6.65 min Scan# 349
Delta R.T. -0.01 min
Lab File: 6M139535.D
Acq: 22 May 2016 22:31

Tgt Ion: 43 Resp: 2111

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052216\6M139536.D Vial: 21
Acq On : 22 May 2016 23:03 Operator: FJB
Sample : L16050972-06 A 826-SPE Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 08:37:07 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

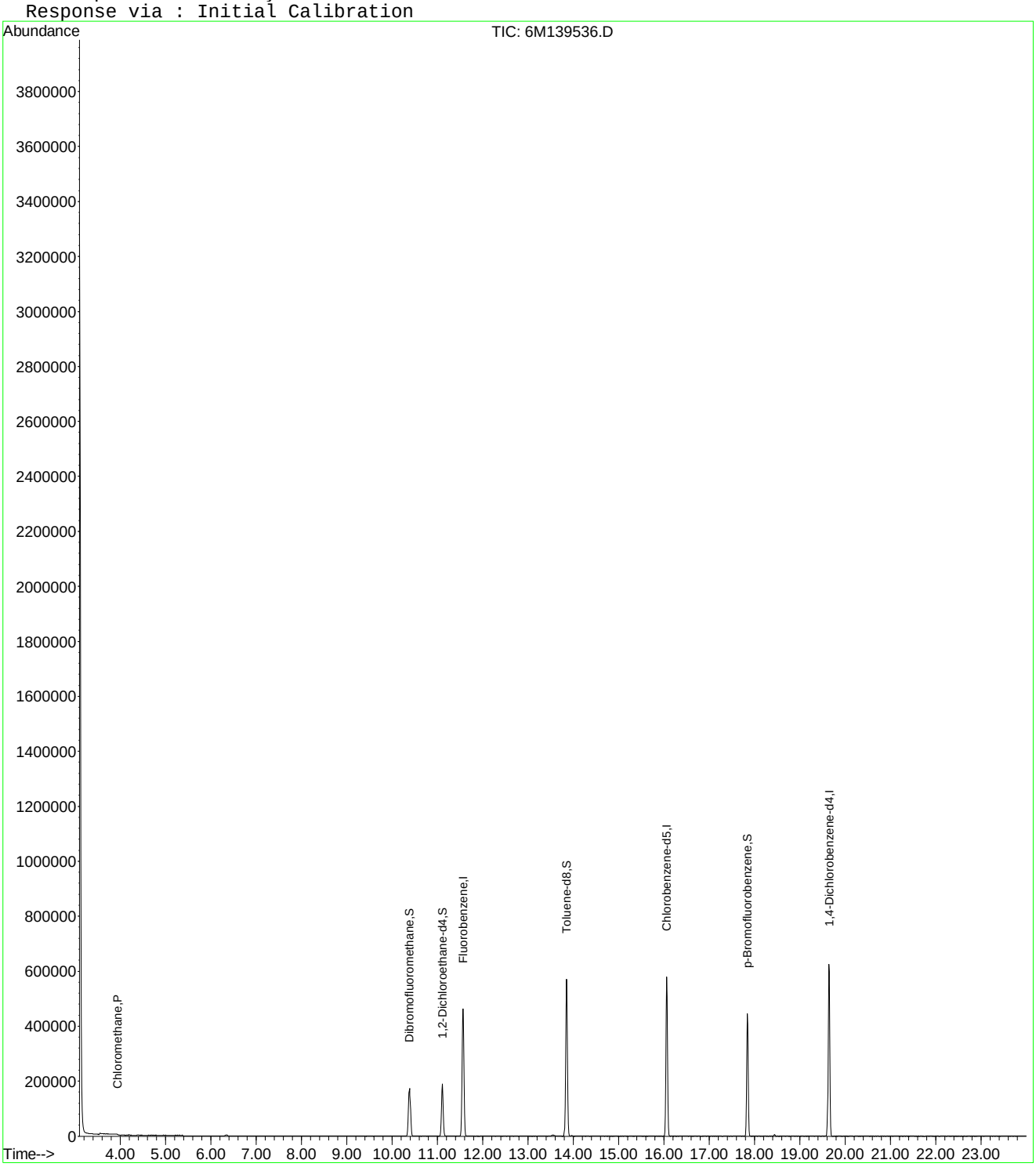
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	605089	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.06	117	441029	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	229795	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.39	111	160653	25.2920 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.16%		
43) 1,2-Dichloroethane-d4	11.11	65	174598	24.6791 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.72%		
58) Toluene-d8	13.85	98	533518	24.5806 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.32%		
80) p-Bromofluorobenzene	17.84	95	207279	24.3340 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.32%		
Target Compounds					Qvalue
3) Chloromethane	3.94	50	2020	0.1546 ug/L	88
13) Acetone	6.66	43	1922	Below Cal #	48

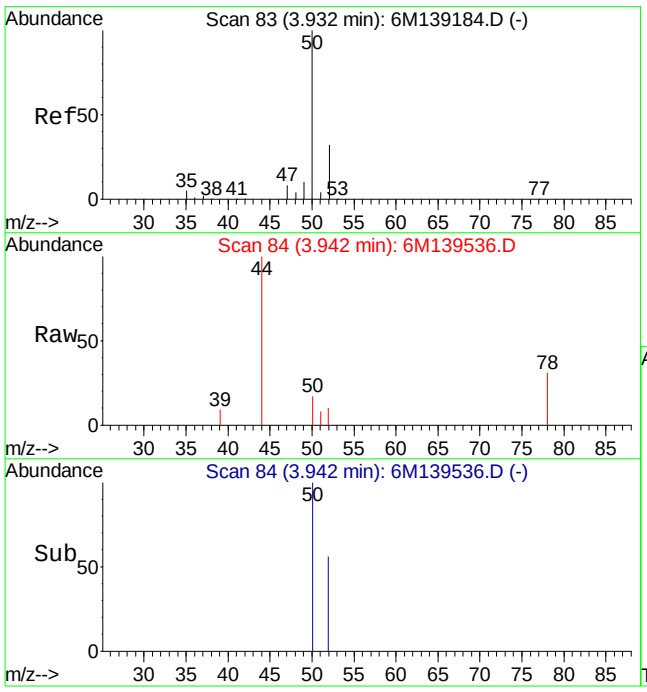
(#) = qualifier out of range (m) = manual integration
6M139536.D 8260WTR.M Mon May 23 08:37:07 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052216\6M139536.D Vial: 21
Acq On : 22 May 2016 23:03 Operator: FJB
Sample : L16050972-06 A 826-SPE Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 8:37 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration

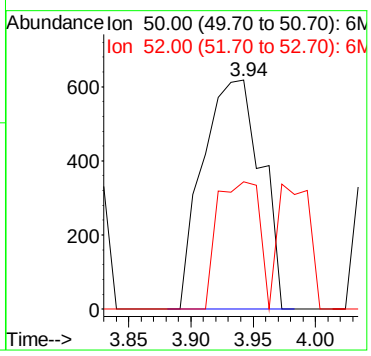


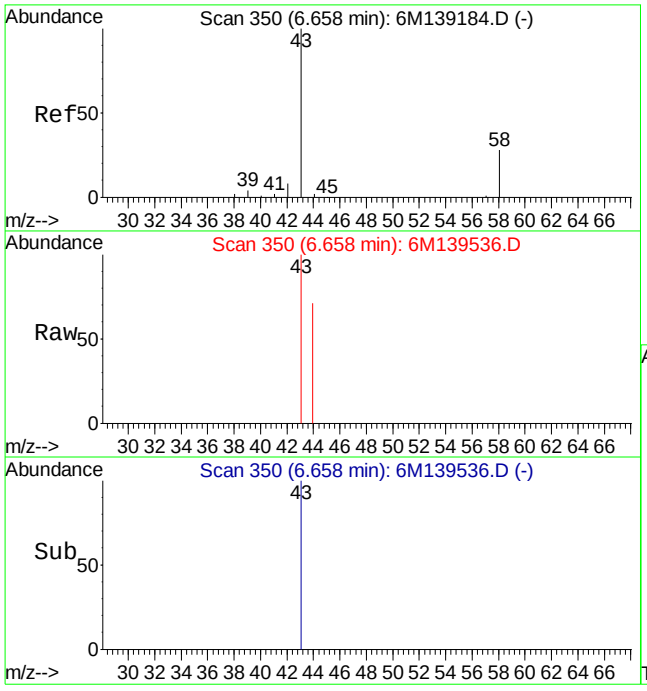


#3
Chloromethane
Concen: 0.15 ug/L
RT: 3.94 min Scan# 84
Delta R.T. 0.01 min
Lab File: 6M139536.D
Acq: 22 May 2016 23:03

Tgt Ion: 50 Resp: 2020

Ion	Ratio	Lower	Upper
50	100		
52	39.8	19.8	46.2

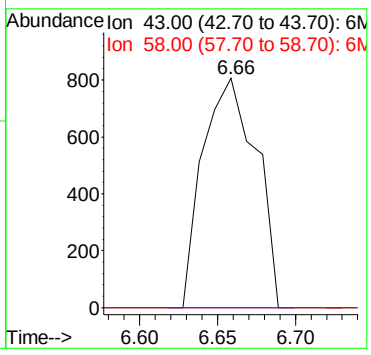




#13
Acetone
Concen: Below Cal
RT: 6.66 min Scan# 350
Delta R.T. 0.00 min
Lab File: 6M139536.D
Acq: 22 May 2016 23:03

Tgt Ion: 43 Resp: 1922

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052216\6M139537.D Vial: 22
Acq On : 22 May 2016 23:35 Operator: FJB
Sample : L16050972-07 A 826-SPE Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 08:37:08 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

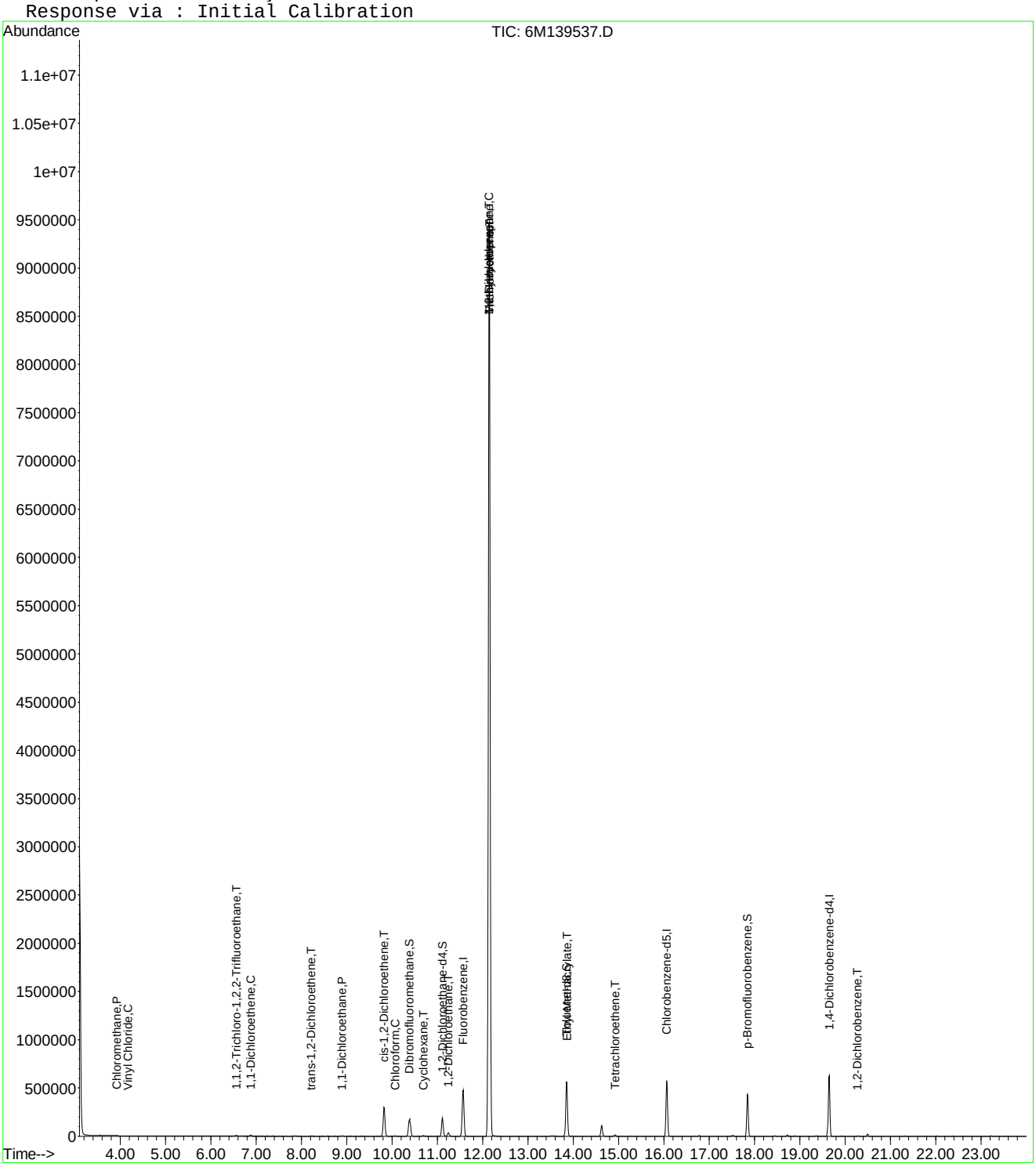
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	610097	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.06	117	442869	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	234143	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.38	111	160990	25.1370 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.56%		
43) 1,2-Dichloroethane-d4	11.11	65	175100	24.5469 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.20%		
58) Toluene-d8	13.85	98	536314	24.6068 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.44%		
80) p-Bromofluorobenzene	17.84	95	209265	24.1109 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 96.44%		
Target Compounds					Qvalue
3) Chloromethane	3.92	50	1825	0.1385 ug/L	81
4) Vinyl Chloride	4.17	62	2192	0.2587 ug/L	82
12) 1,1,2-Trichloro-1,2,2-Trif	6.56	101	9228	1.5028 ug/L	95
13) Acetone	6.65	43	1627	Below Cal # 1	
14) 1,1-Dichloroethene	6.88	61	13664	1.2282 ug/L	97
23) trans-1,2-Dichloroethene	8.21	96	1395	0.2193 ug/L	81
27) 1,1-Dichloroethane	8.89	63	8560	0.6749 ug/L	99
32) cis-1,2-Dichloroethene	9.82	96	175405	24.9593 ug/L	99
33) Chloroform	10.07	83	3665	0.3155 ug/L	92
36) Tetrahydrofuran	10.68	42	713	Below Cal # 41	
39) Cyclohexane	10.69	56	4301	0.4219 ug/L	97
45) 1,2-Dichloroethane	11.24	62	38483	4.3143 ug/L	89
47) Trichloroethene	12.15	130	4069364	610.7788 ug/L	94
48) Methylcyclohexane	12.14	83	60237	6.8663 ug/L #	1
49) 1,2-Dichloropropane	12.14	63	15664	2.1912 ug/L #	35
60) Ethyl Methacrylate	13.86	69	1092	0.1431 ug/L	66
66) Tetrachloroethene	14.92	166	5779	0.8460 ug/L	97
96) 1,2-Dichlorobenzene	20.27	146	2039	0.1499 ug/L	75

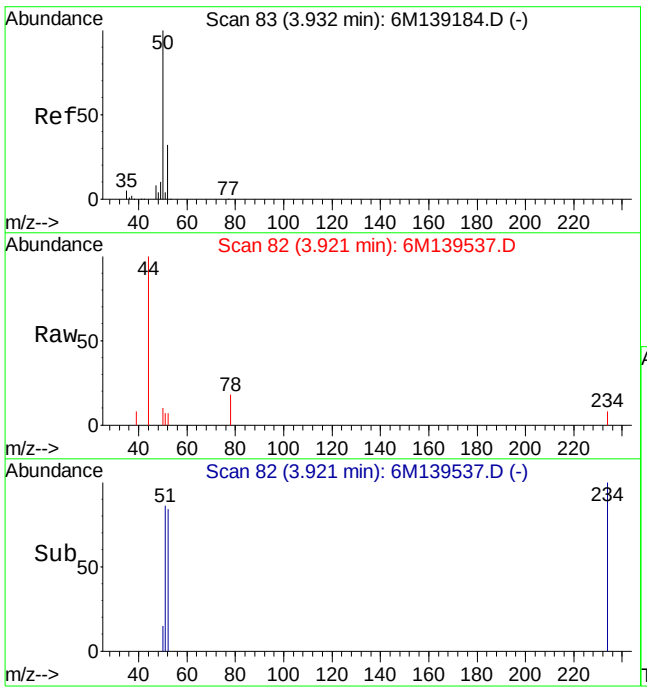
(#) = qualifier out of range (m) = manual integration
6M139537.D 8260WTR.M Mon May 23 08:37:08 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052216\6M139537.D Vial: 22
Acq On : 22 May 2016 23:35 Operator: FJB
Sample : L16050972-07 A 826-SPE Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 8:37 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration

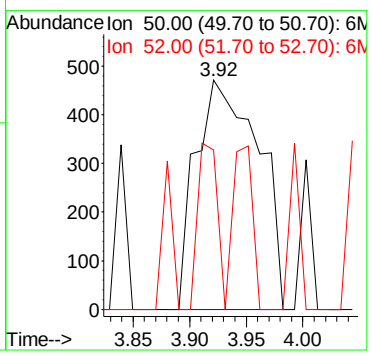


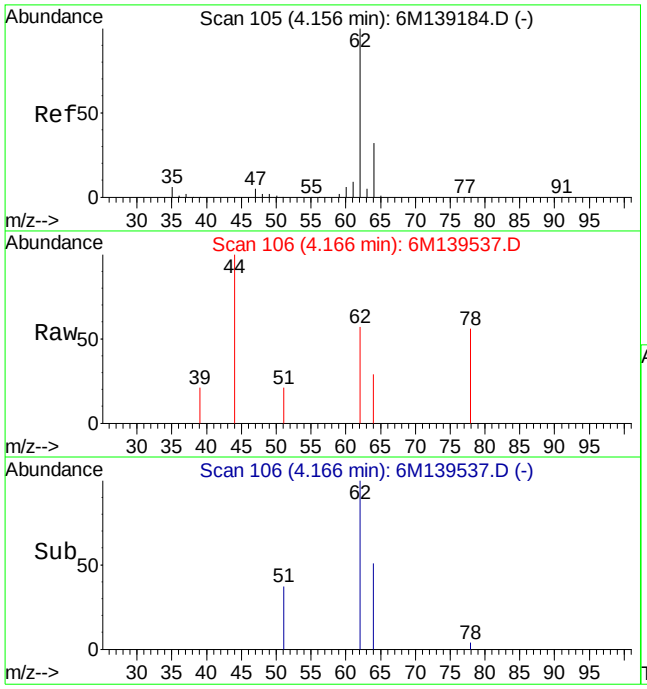


#3
Chloromethane
Concen: 0.14 ug/L
RT: 3.92 min Scan# 82
Delta R.T. -0.01 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 50 Resp: 1825

Ion	Ratio	Lower	Upper
50	100		
52	22.5	19.8	46.2

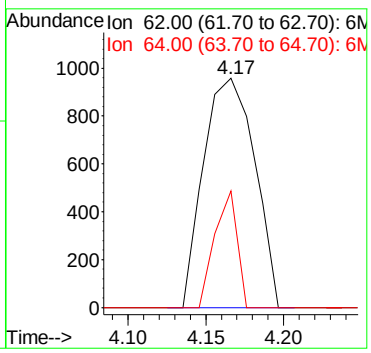


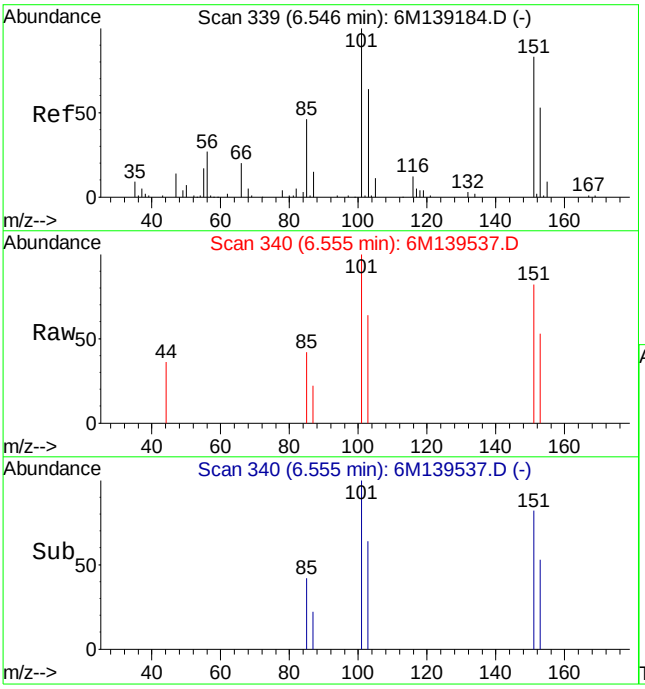


#4
Vinyl Chloride
Concen: 0.26 ug/L
RT: 4.17 min Scan# 106
Delta R.T. 0.01 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 62 Resp: 2192

Ion	Ratio	Lower	Upper
62	100		
64	22.2	19.3	45.1

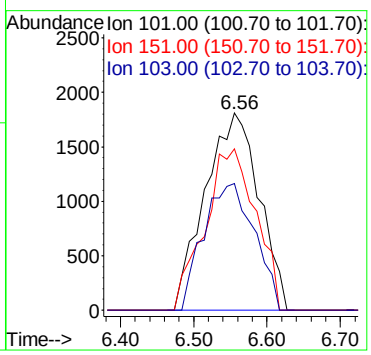


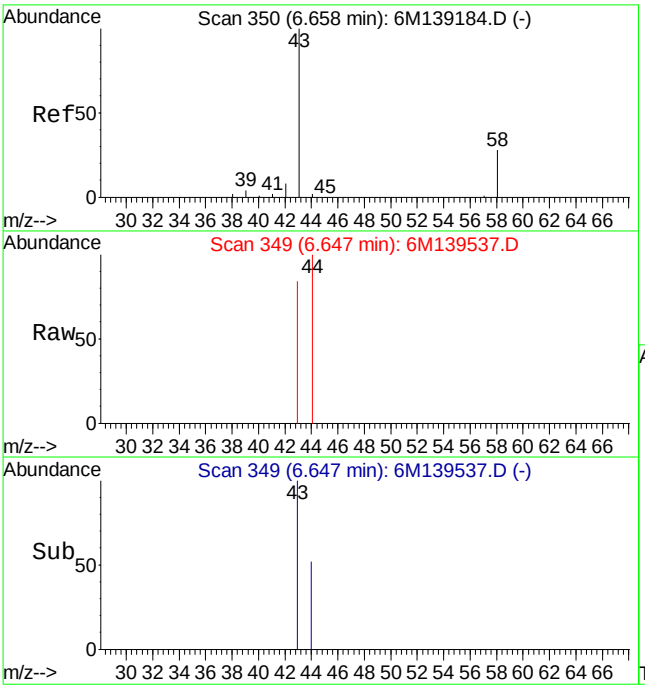


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 1.50 ug/L
RT: 6.56 min Scan# 340
Delta R.T. 0.01 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion:101 Resp: 9228

Ion	Ratio	Lower	Upper
101	100		
151	77.1	49.4	115.2
103	60.8	38.8	90.4

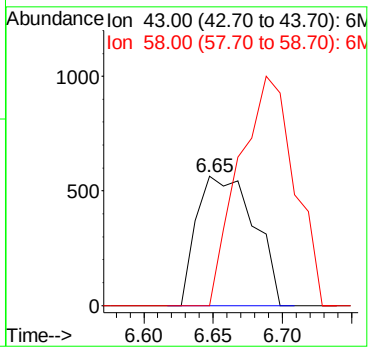


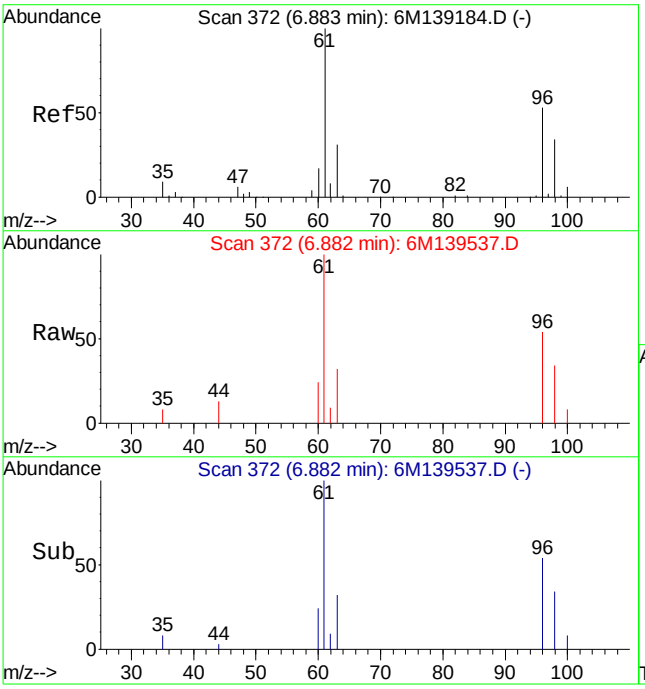


#13
Acetone
Concen: Below Cal
RT: 6.65 min Scan# 349
Delta R.T. -0.01 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 43 Resp: 1627

Ion	Ratio	Lower	Upper
43	100		
58	170.7	16.4	38.2#

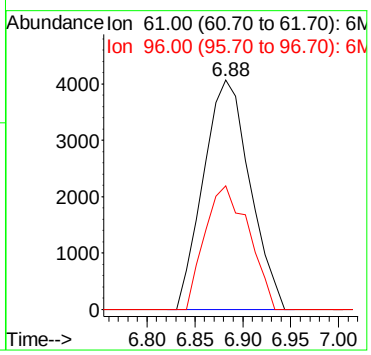


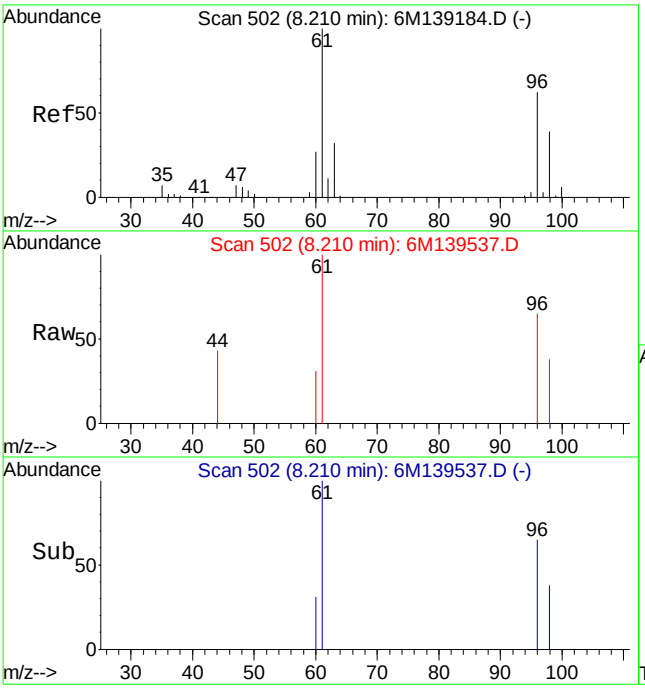


#14
1,1-Dichloroethene
Concen: 1.23 ug/L
RT: 6.88 min Scan# 372
Delta R.T. -0.00 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 61 Resp: 13664

Ion	Ratio	Lower	Upper
61	100		
96	50.9	32.0	74.6

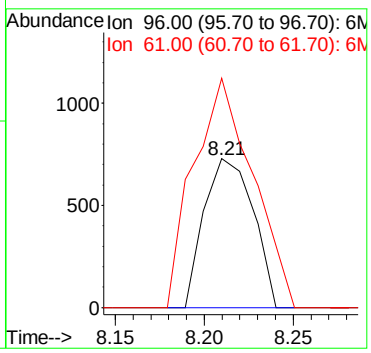


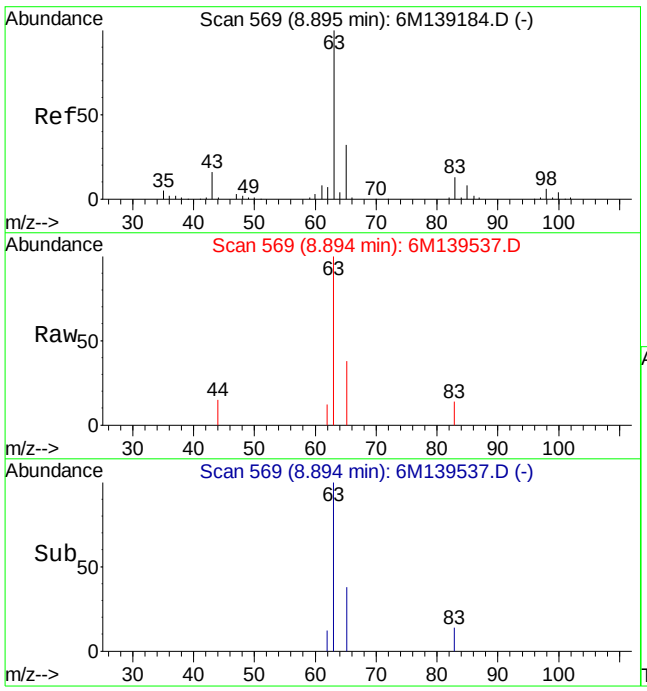


#23
trans-1,2-Dichloroethene
Concen: 0.22 ug/L
RT: 8.21 min Scan# 502
Delta R.T. -0.00 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 96 Resp: 1395

Ion	Ratio	Lower	Upper
96	100		
61	186.1	96.3	224.7

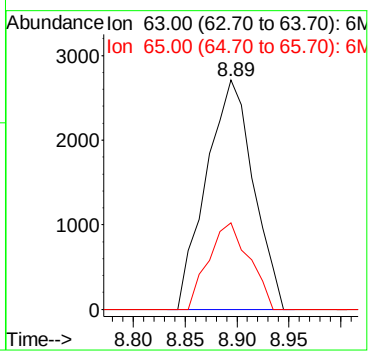


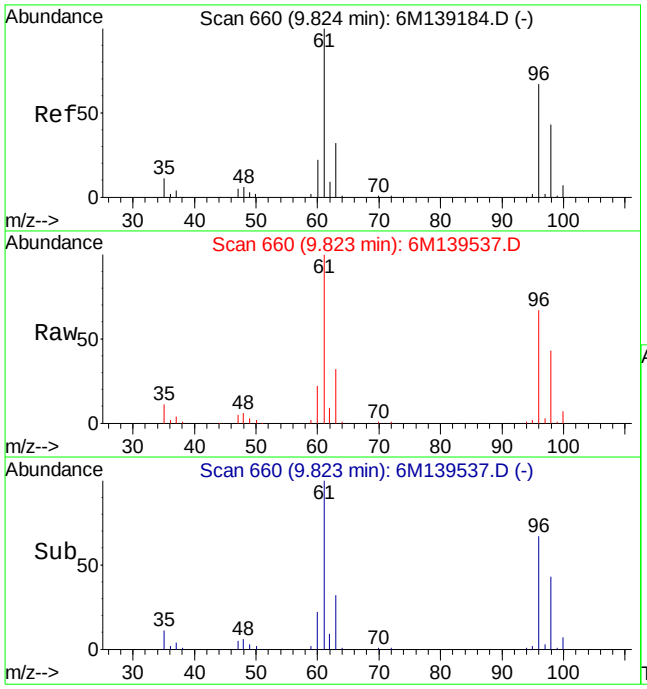


#27
1,1-Dichloroethane
Concen: 0.67 ug/L
RT: 8.89 min Scan# 569
Delta R.T. -0.00 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 63 Resp: 8560

Ion	Ratio	Lower	Upper
63	100		
65	32.6	19.3	44.9

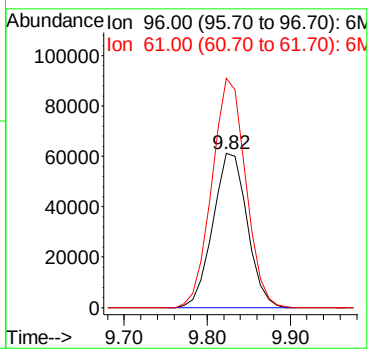


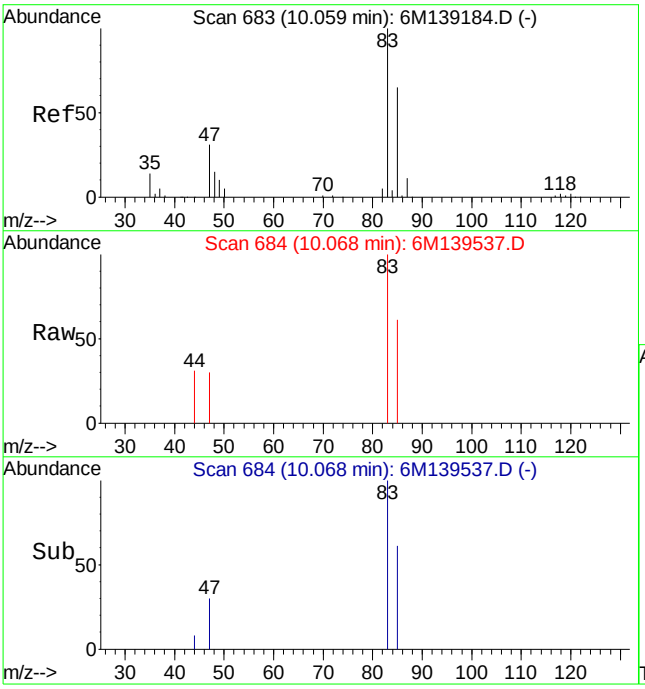


#32
cis-1,2-Dichloroethene
Concen: 24.96 ug/L
RT: 9.82 min Scan# 660
Delta R.T. -0.00 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 96 Resp: 175405

Ion	Ratio	Lower	Upper
96	100		
61	147.1	89.2	208.2

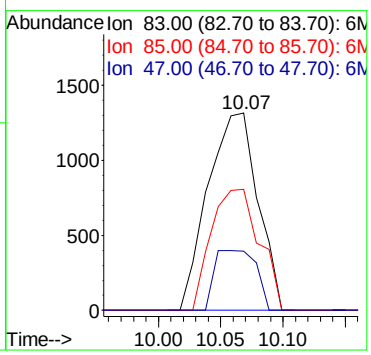


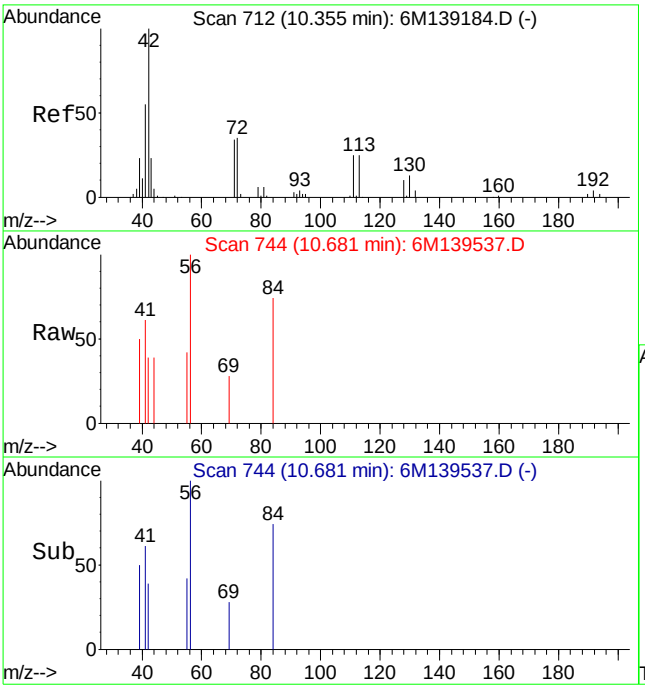


#33
Chloroform
Concen: 0.32 ug/L
RT: 10.07 min Scan# 684
Delta R.T. 0.01 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 83 Resp: 3665

Ion	Ratio	Lower	Upper
83	100		
85	59.2	39.0	91.0
47	25.2	18.5	43.1

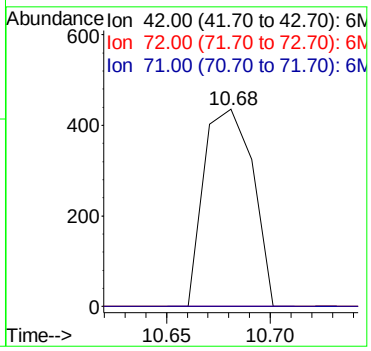


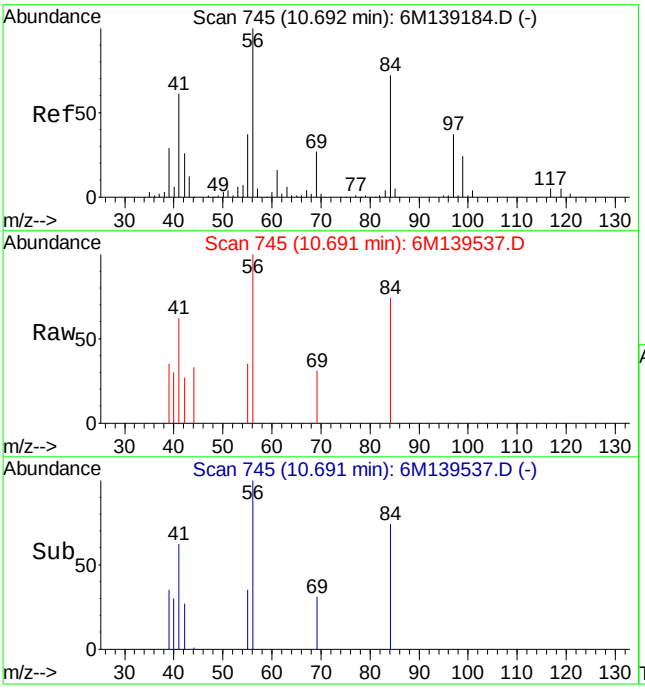


#36
Tetrahydrofuran
Concen: Below Cal
RT: 10.68 min Scan# 744
Delta R.T. 0.33 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 42 Resp: 713

Ion	Ratio	Lower	Upper
42	100		
72	0.0	20.8	48.4#
71	0.0	19.9	46.5#

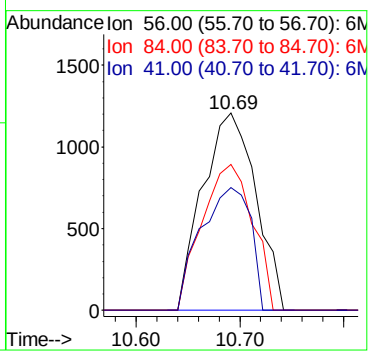


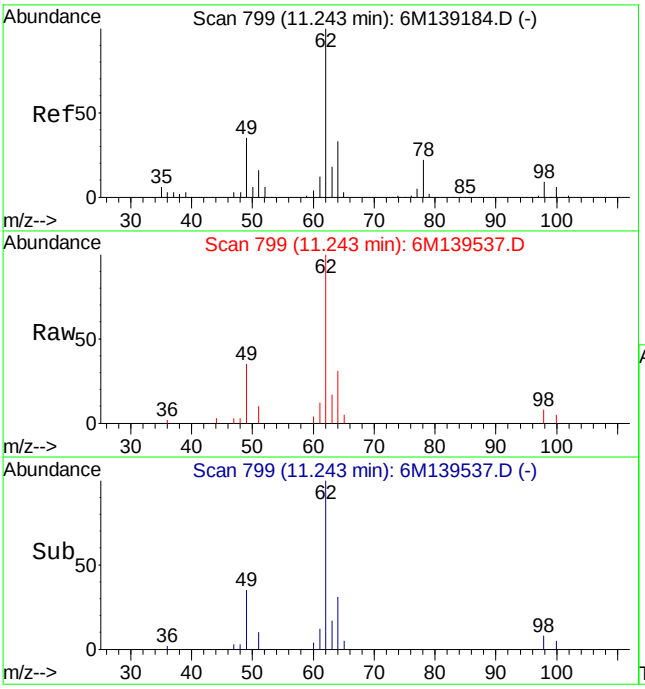


#39
Cyclohexane
Concen: 0.42 ug/L
RT: 10.69 min Scan# 745
Delta R.T. -0.00 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 56 Resp: 4301

Ion	Ratio	Lower	Upper
56	100		
84	70.6	43.6	101.6
41	58.2	37.1	86.5

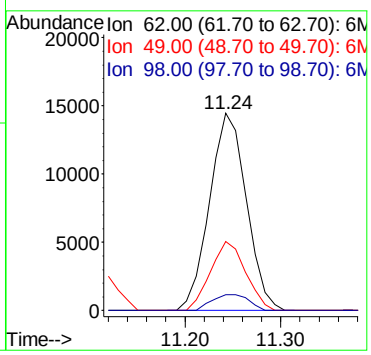


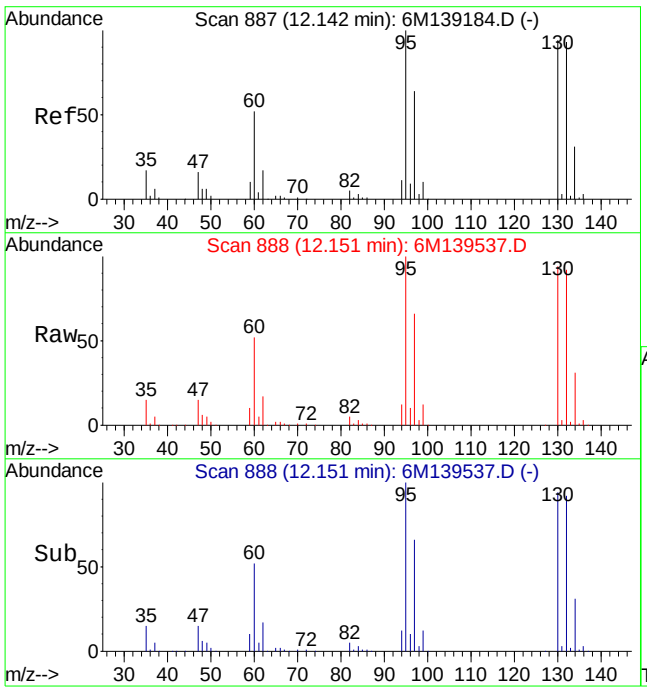


#45
1,2-Dichloroethane
Concen: 4.31 ug/L
RT: 11.24 min Scan# 799
Delta R.T. -0.00 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 62 Resp: 38483

Ion	Ratio	Lower	Upper
62	100		
49	33.5	25.1	58.5
98	8.0	5.2	12.0

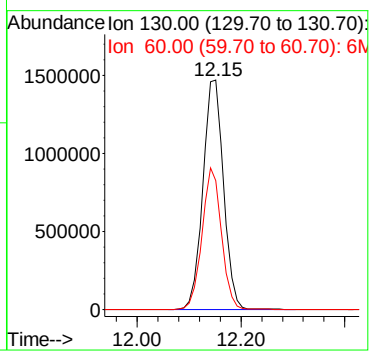


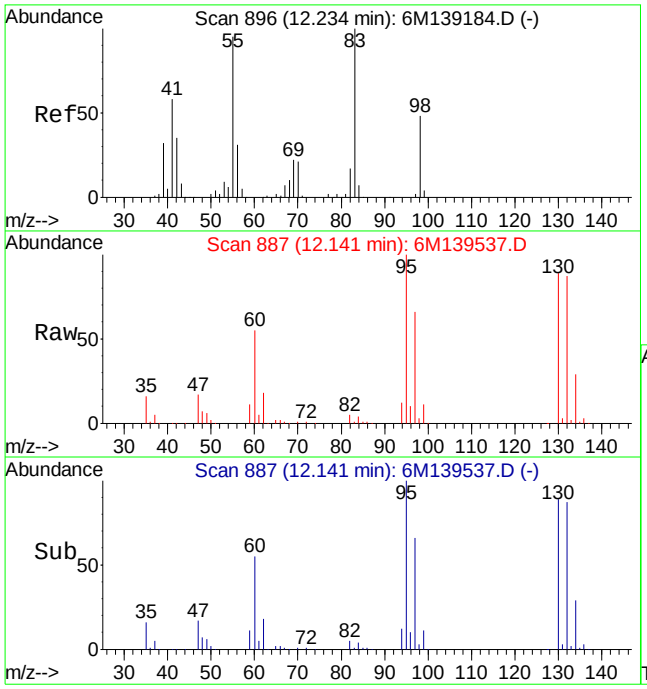


#47
Trichloroethene
Concen: 610.78 ug/L
RT: 12.15 min Scan# 888
Delta R.T. 0.01 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion:130 Resp: 4069364

Ion	Ratio	Lower	Upper
130	100		
60	57.7	32.0	74.6

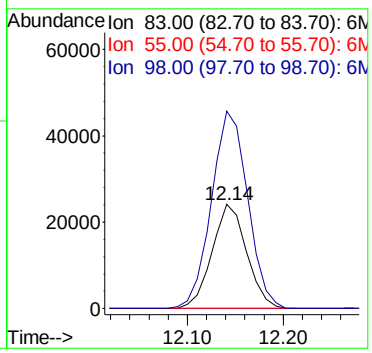


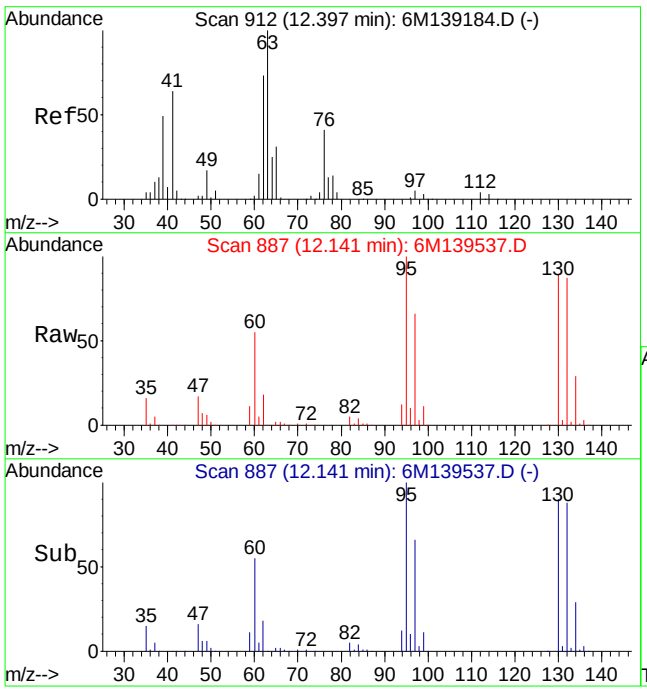


#48
Methylcyclohexane
Concen: 6.87 ug/L
RT: 12.14 min Scan# 887
Delta R.T. -0.09 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 83 Resp: 60237

Ion	Ratio	Lower	Upper
83	100		
55	0.0	56.3	131.3#
98	198.3	28.4	66.4#

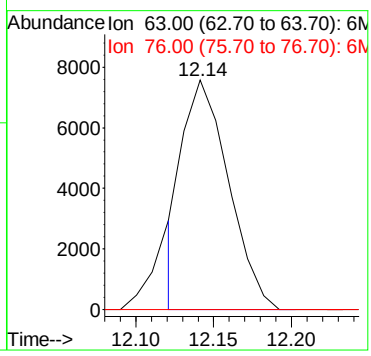


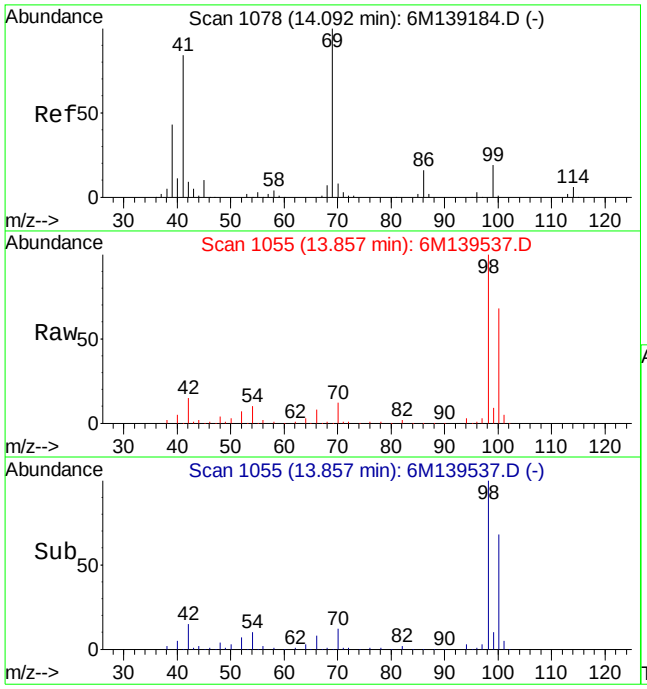


#49
1,2-Dichloropropane
Concen: 2.19 ug/L
RT: 12.14 min Scan# 887
Delta R.T. -0.26 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 63 Resp: 15664

Ion	Ratio	Lower	Upper
63	100		
76	0.0	24.2	56.4#

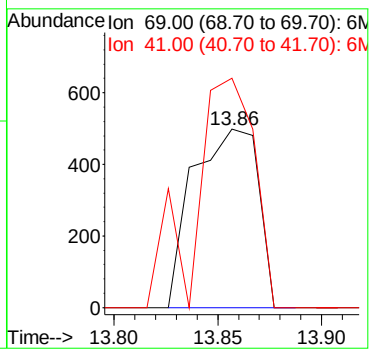


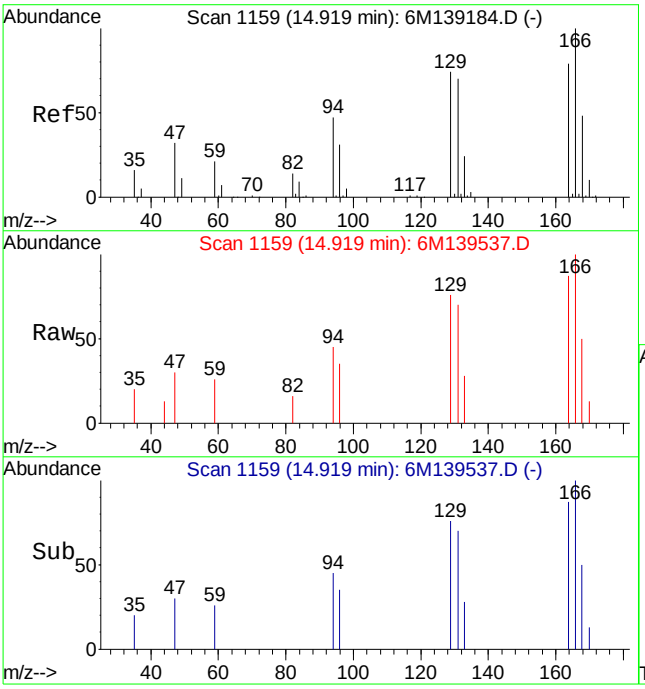


#60
Ethyl Methacrylate
Concen: 0.14 ug/L
RT: 13.86 min Scan# 1055
Delta R.T. -0.24 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion: 69 Resp: 1092

Ion	Ratio	Lower	Upper
69	100		
41	116.7	51.4	120.0

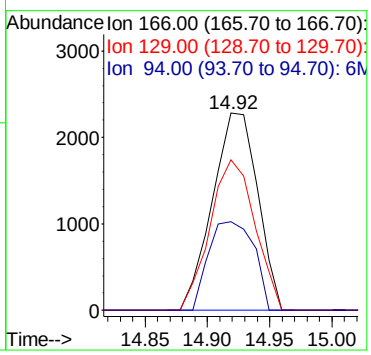


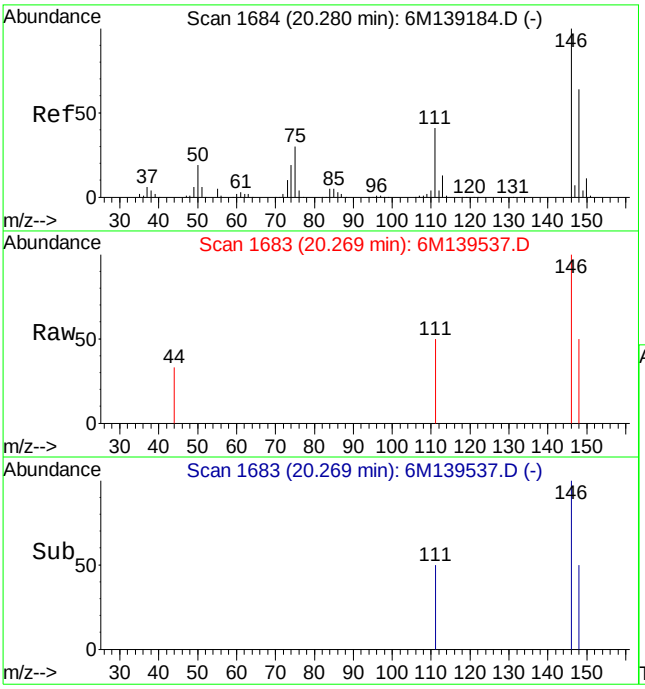


#66
Tetrachloroethene
Concen: 0.85 ug/L
RT: 14.92 min Scan# 1159
Delta R.T. -0.00 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion:166 Resp: 5779

Ion	Ratio	Lower	Upper
166	100		
129	75.6	43.5	101.5
94	44.9	27.8	64.8

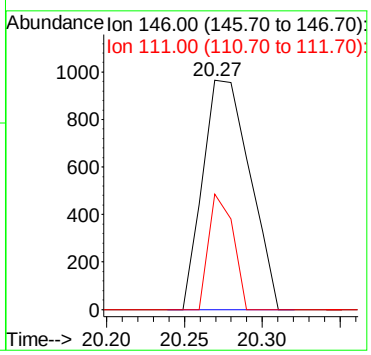




#96
1,2-Dichlorobenzene
Concen: 0.15 ug/L
RT: 20.27 min Scan# 1683
Delta R.T. -0.01 min
Lab File: 6M139537.D
Acq: 22 May 2016 23:35

Tgt Ion:146 Resp: 2039

Ion	Ratio	Lower	Upper
146	100		
111	26.0	24.9	58.1



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052316\6M139554.D Vial: 13
Acq On : 23 May 2016 16:11 Operator: TMB
Sample : L16050972-07 B 10X 826-LOW D1 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 06:29:38 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

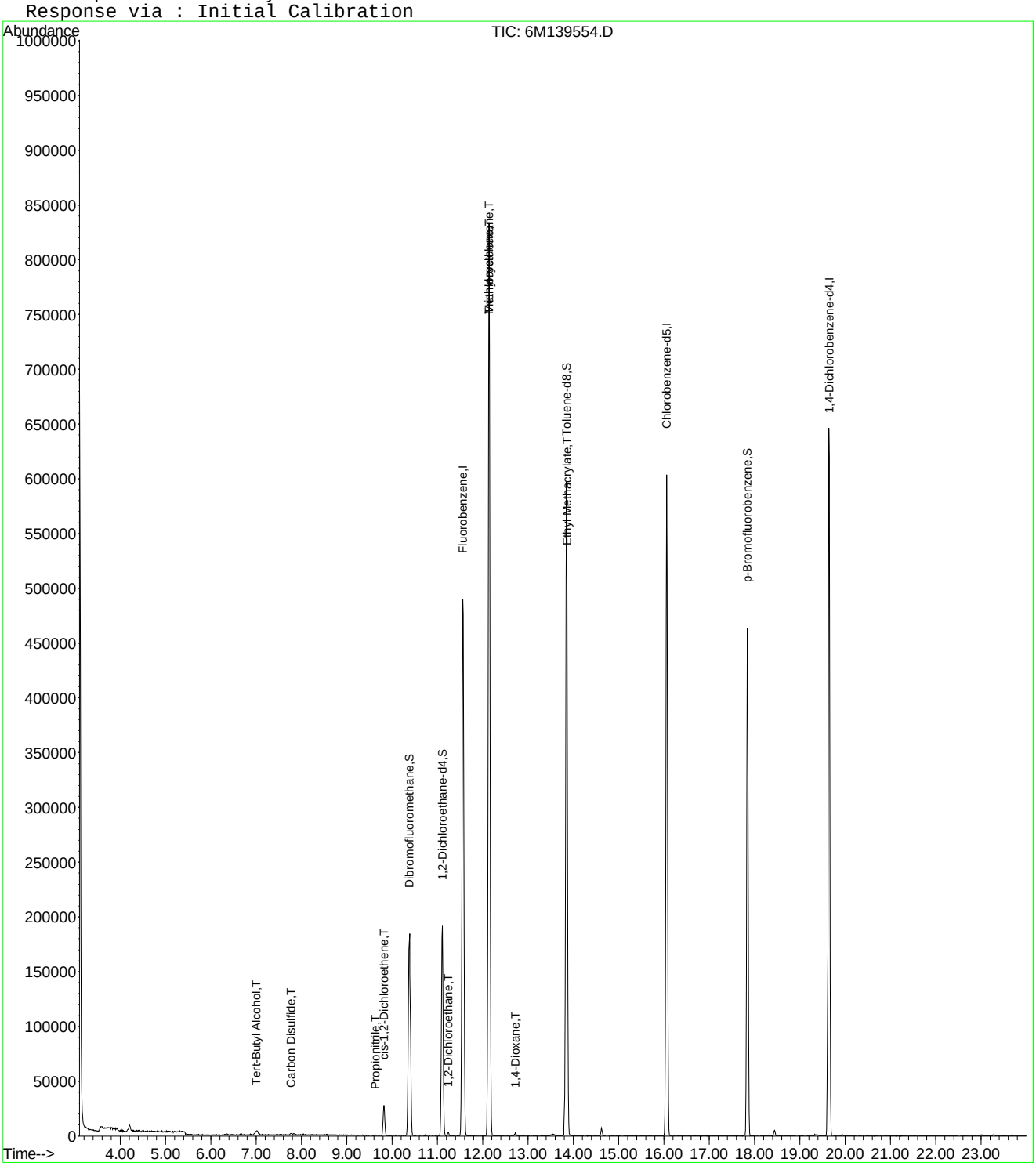
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.56	96	635868	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.06	117	456127	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	239416	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.39	111	166276	24.9102 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.64%		
43) 1,2-Dichloroethane-d4	11.11	65	178779	24.0469 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 96.20%		
58) Toluene-d8	13.85	98	555451	24.7440 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.96%		
80) p-Bromofluorobenzene	17.84	95	214996	24.2256 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 96.92%		
Target Compounds					Qvalue
13) Acetone	6.66	43	1583	Below Cal	# 48
15) Tert-Butyl Alcohol	7.01	59	9181	15.9605 ug/L	# 89
20) Carbon Disulfide	7.77	76	2889	0.2408 ug/L	# 74
30) Propionitrile	9.63	54	821	1.0365 ug/L	# 56
32) cis-1,2-Dichloroethene	9.82	96	16475	2.2493 ug/L	99
36) Tetrahydrofuran	10.36	42	2290	Below Cal	# 48
45) 1,2-Dichloroethane	11.24	62	3669	0.3947 ug/L	# 79
47) Trichloroethene	12.14	130	367513	52.9251 ug/L	99
48) Methylcyclohexane	12.14	83	4386	0.4797 ug/L	# 1
50) 1,4-Dioxane	12.72	88	2614	50.5223 ug/L	98
60) Ethyl Methacrylate	13.86	69	1130	0.1438 ug/L	# 43

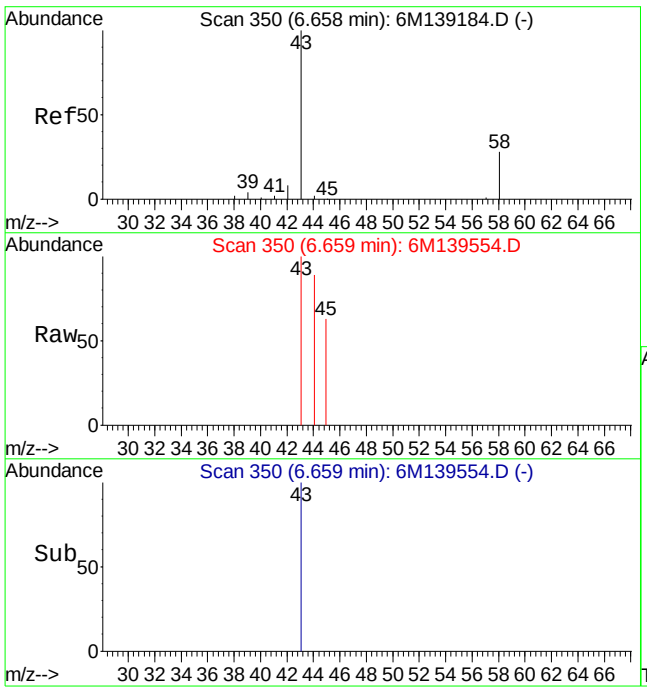
(#) = qualifier out of range (m) = manual integration
6M139554.D 8260WTR.M Tue May 24 06:29:38 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052316\6M139554.D Vial: 13
Acq On : 23 May 2016 16:11 Operator: TMB
Sample : L16050972-07 B 10X 826-LOW D1 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 6:29 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration

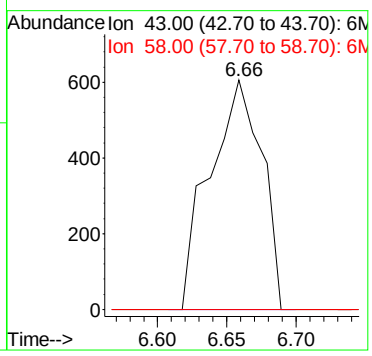


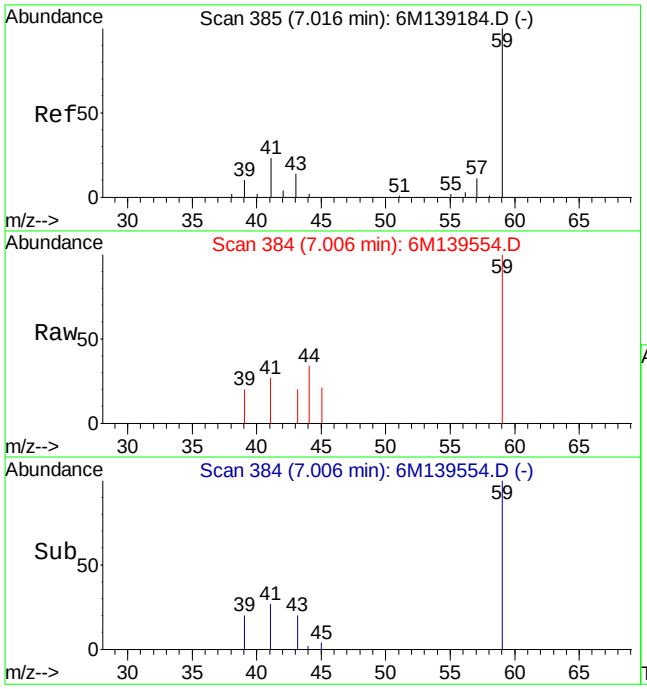


#13
Acetone
Concen: Below Cal
RT: 6.66 min Scan# 350
Delta R.T. 0.00 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion: 43 Resp: 1583

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#

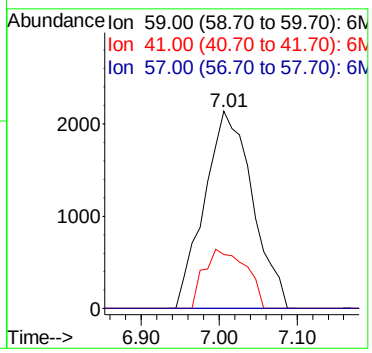


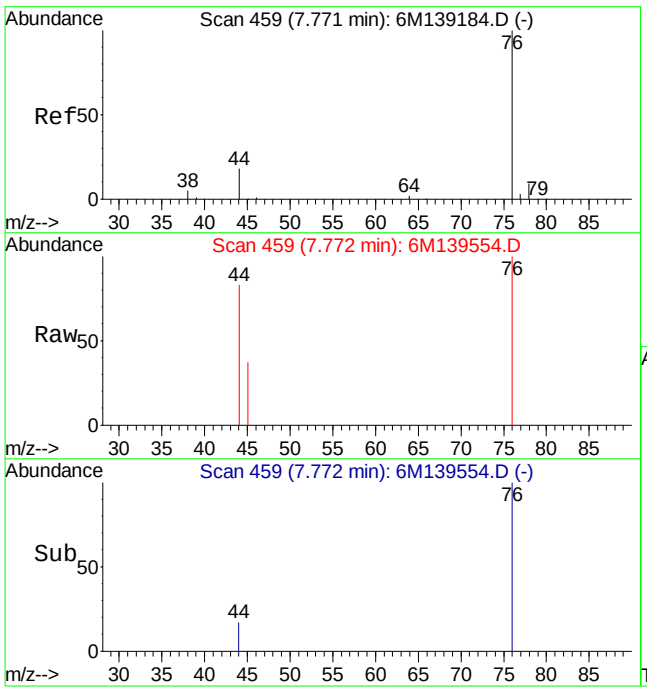


#15
Tert-Butyl Alcohol
Concen: 15.96 ug/L
RT: 7.01 min Scan# 384
Delta R.T. -0.01 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion: 59 Resp: 9181

Ion	Ratio	Lower	Upper
59	100		
41	26.2	14.6	34.0
57	0.0	6.4	14.8#

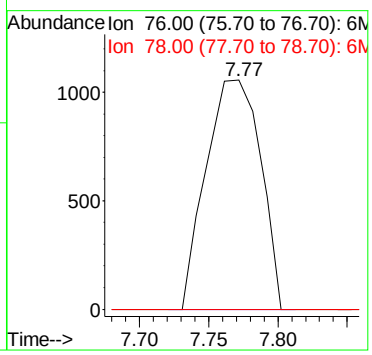


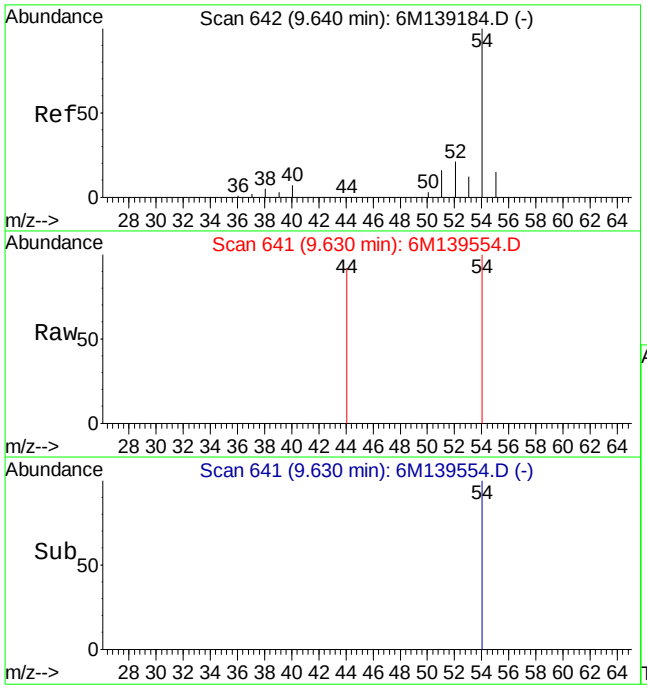


#20
Carbon Disulfide
Concen: 0.24 ug/L
RT: 7.77 min Scan# 459
Delta R.T. 0.00 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion: 76 Resp: 2889

Ion	Ratio	Lower	Upper
76	100		
78	0.0	5.7	13.3#

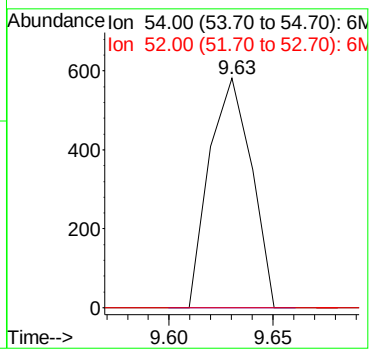


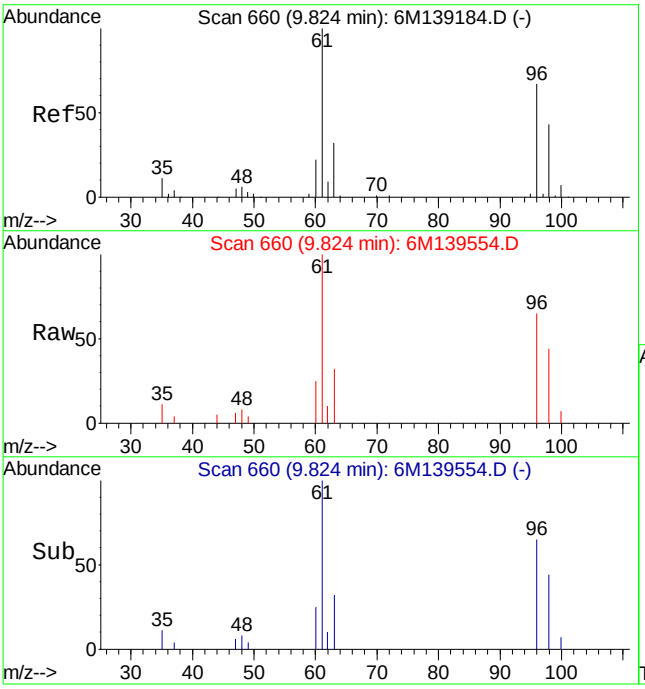


#30
Propionitrile
Concen: 1.04 ug/L
RT: 9.63 min Scan# 641
Delta R.T. -0.01 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion: 54 Resp: 821

Ion	Ratio	Lower	Upper
54	100		
52	0.0	12.0	28.0#

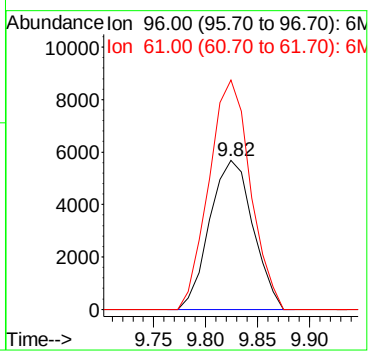


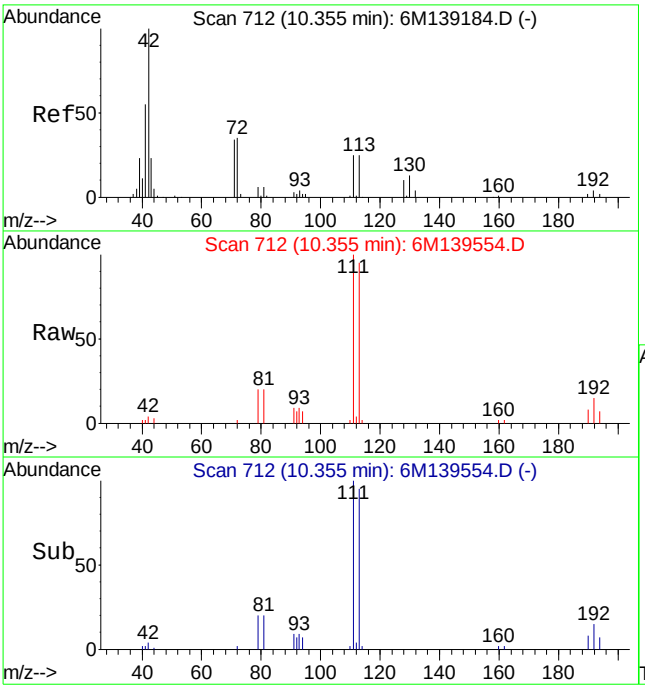


#32
cis-1,2-Dichloroethene
Concen: 2.25 ug/L
RT: 9.82 min Scan# 660
Delta R.T. 0.00 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion: 96 Resp: 16475

Ion	Ratio	Lower	Upper
96	100		
61	147.4	89.2	208.2

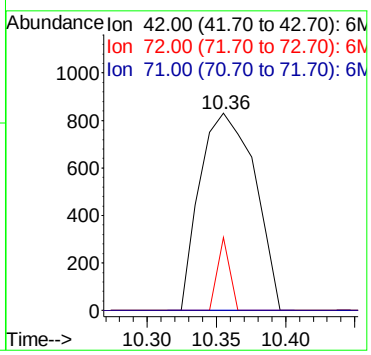


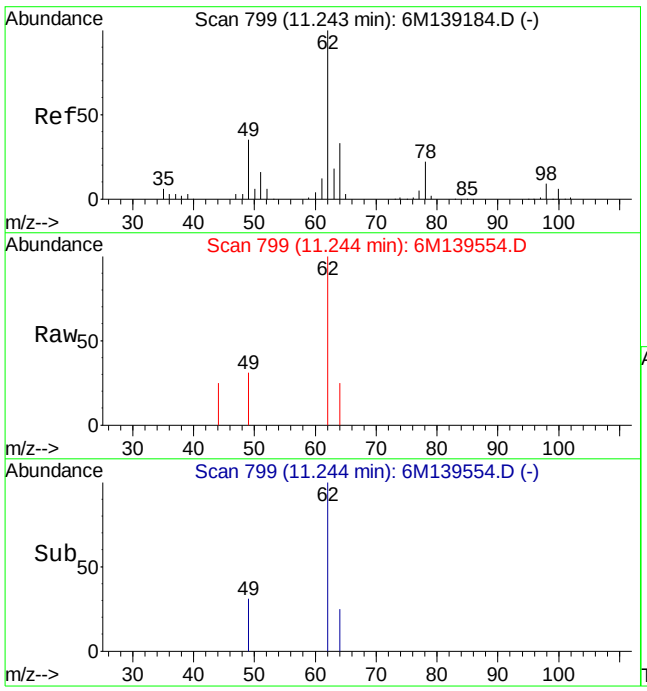


#36
Tetrahydrofuran
Concen: Below Cal
RT: 10.36 min Scan# 712
Delta R.T. 0.00 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion: 42 Resp: 2290

Ion	Ratio	Lower	Upper
42	100		
72	8.3	20.8	48.4#
71	0.0	19.9	46.5#

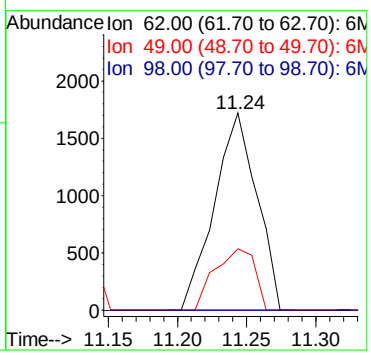


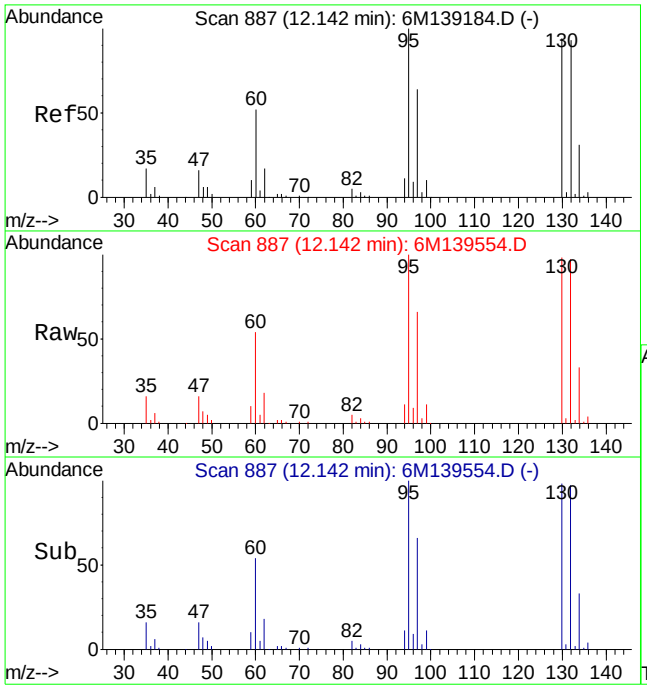


#45
1,2-Dichloroethane
Concen: 0.39 ug/L
RT: 11.24 min Scan# 799
Delta R.T. 0.00 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion: 62 Resp: 3669

Ion	Ratio	Lower	Upper
62	100		
49	29.2	25.1	58.5
98	0.0	5.2	12.0#

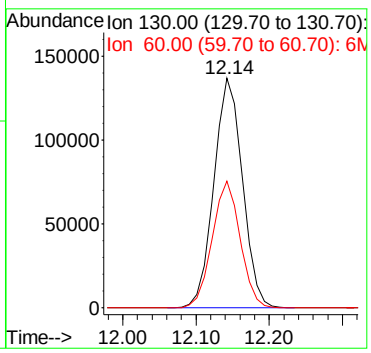


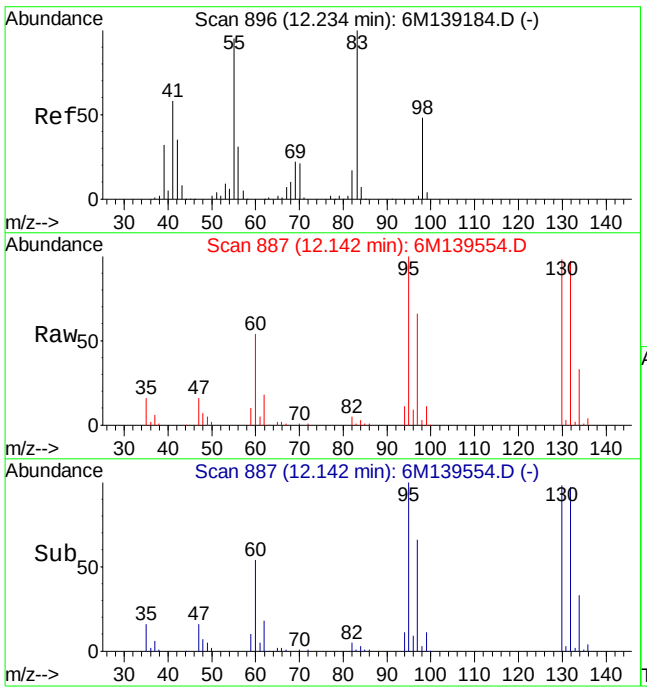


#47
Trichloroethene
Concen: 52.93 ug/L
RT: 12.14 min Scan# 887
Delta R.T. 0.00 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion:130 Resp: 367513

Ion	Ratio	Lower	Upper
130	100		
60	53.9	32.0	74.6

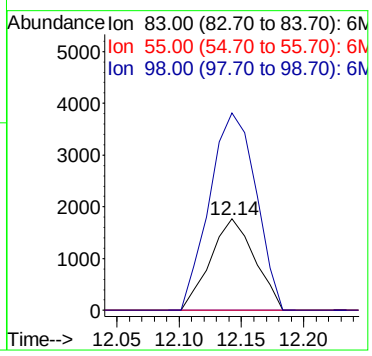


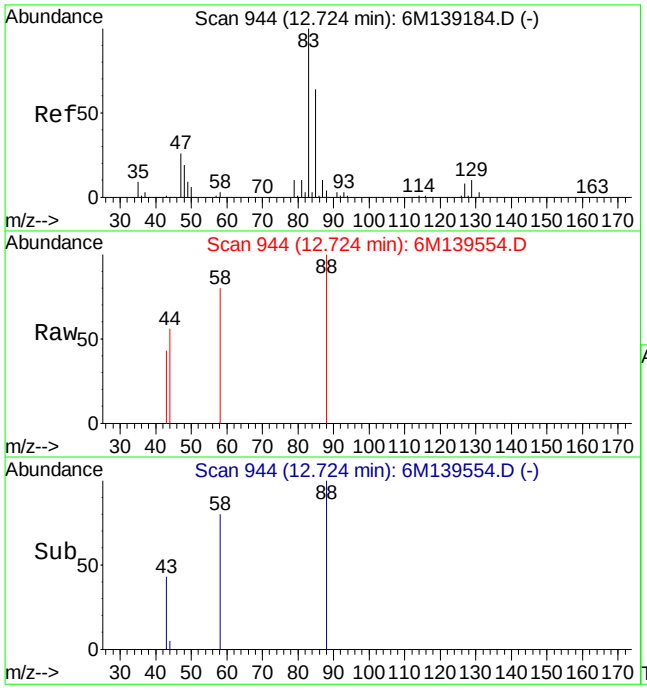


#48
Methylcyclohexane
Concen: 0.48 ug/L
RT: 12.14 min Scan# 887
Delta R.T. -0.09 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion: 83 Resp: 4386

Ion	Ratio	Lower	Upper
83	100		
55	0.0	56.3	131.3#
98	225.9	28.4	66.4#

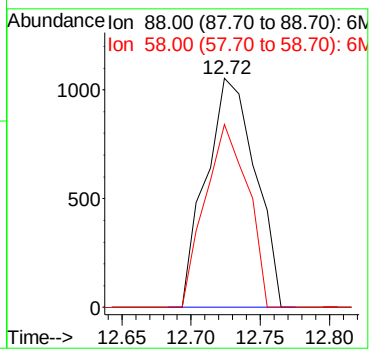


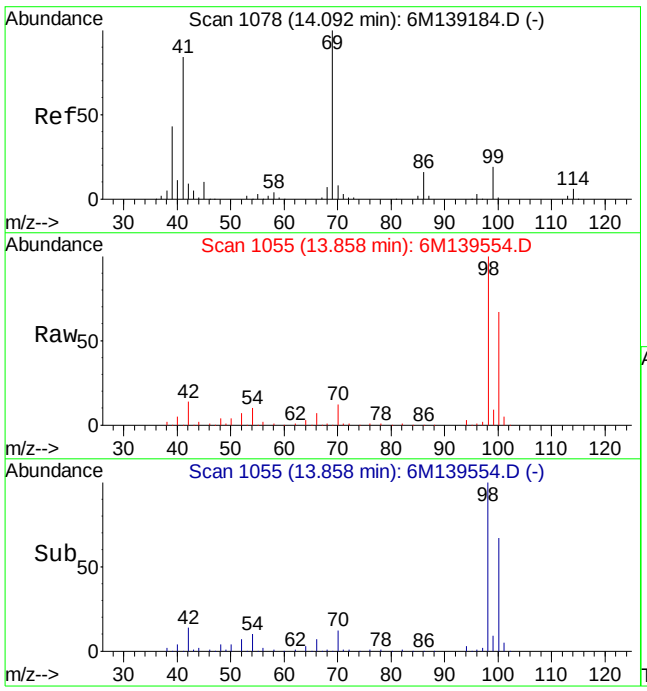


#50
1,4-Dioxane
Concen: 50.52 ug/L
RT: 12.72 min Scan# 944
Delta R.T. 0.00 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion: 88 Resp: 2614

Ion	Ratio	Lower	Upper
88	100		
58	68.9	42.6	99.4

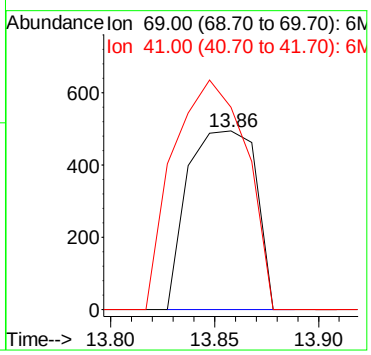




#60
Ethyl Methacrylate
Concen: 0.14 ug/L
RT: 13.86 min Scan# 1055
Delta R.T. -0.23 min
Lab File: 6M139554.D
Acq: 23 May 2016 16:11

Tgt Ion: 69 Resp: 1130

Ion	Ratio	Lower	Upper
69	100		
41	138.4	51.4	120.0#



Data File : C:\MSDCHEM\1\DATA\052216\6M139538.D Vial: 23
Acq On : 23 May 2016 00:07 Operator: FJB
Sample : L16050972-08 A 826-SPE Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 08:37:10 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

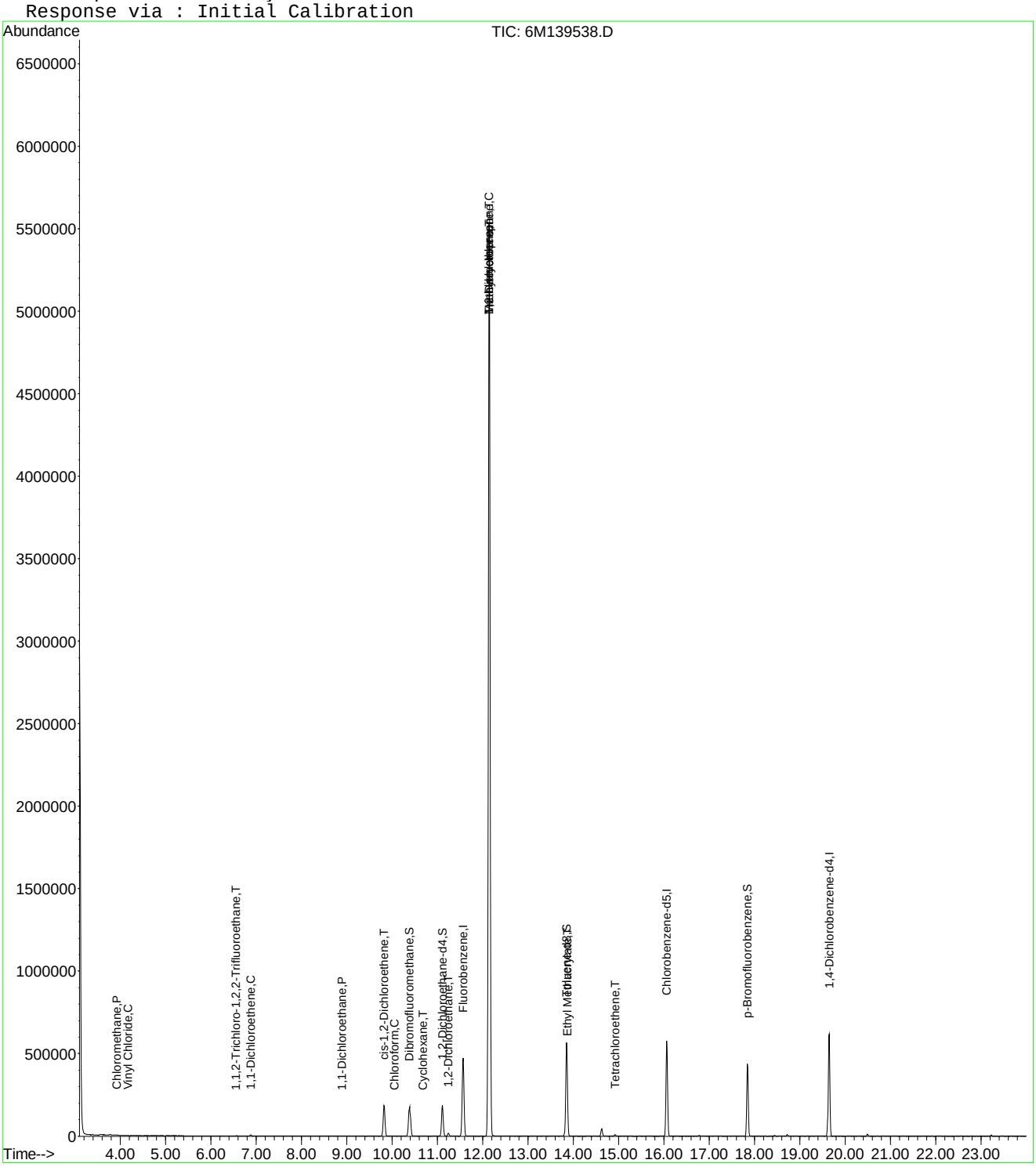
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	606396	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.06	117	440871	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	232299	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.38	111	161084	25.3052 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 101.24%		
43) 1,2-Dichloroethane-d4	11.11	65	173182	24.4262 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 97.72%		
58) Toluene-d8	13.85	98	533092	24.5698 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.28%		
80) p-Bromofluorobenzene	17.84	95	208380	24.1995 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 96.80%		
Target Compounds					Qvalue
3) Chloromethane	3.92	50	1742	0.1330 ug/L #	70
4) Vinyl Chloride	4.17	62	1037	0.1231 ug/L #	42
12) 1,1,2-Trichloro-1,2,2-Trif	6.55	101	2780	0.4555 ug/L	92
13) Acetone	6.65	43	1515	Below Cal #	67
14) 1,1-Dichloroethene	6.88	61	8178	0.7395 ug/L	96
27) 1,1-Dichloroethane	8.89	63	4999	0.3965 ug/L	83
32) cis-1,2-Dichloroethene	9.82	96	110253	15.7842 ug/L	99
33) Chloroform	10.05	83	1515	0.1312 ug/L #	66
36) Tetrahydrofuran	10.68	42	192	Below Cal #	41
39) Cyclohexane	10.68	56	2248	0.2219 ug/L	77
45) 1,2-Dichloroethane	11.24	62	19889	2.2433 ug/L	89
47) Trichloroethene	12.14	130	2402451	362.7894 ug/L	96
48) Methylcyclohexane	12.14	83	34315	3.9354 ug/L #	1
49) 1,2-Dichloropropane	12.14	63	8394	1.1814 ug/L #	35
60) Ethyl Methacrylate	13.87	69	1270	0.1672 ug/L	79
66) Tetrachloroethene	14.92	166	3772	0.5547 ug/L	95

(#) = qualifier out of range (m) = manual integration
6M139538.D 8260WTR.M Mon May 23 08:37:10 2016 Page 1

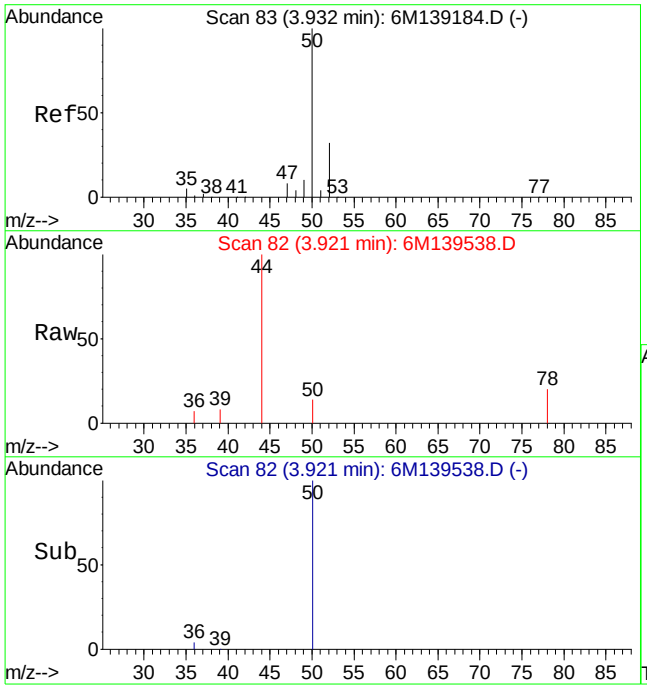
Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052216\6M139538.D Vial: 23
Acq On : 23 May 2016 00:07 Operator: FJB
Sample : L16050972-08 A 826-SPE Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 8:37 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration



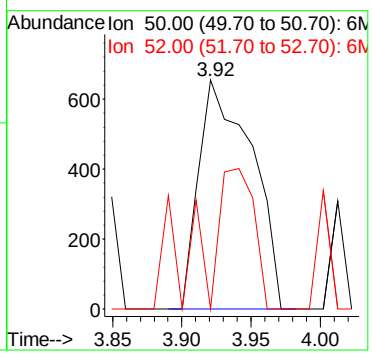
6M139538.D 8260WTR.M Mon May 23 08:37:10 2016 Page 2

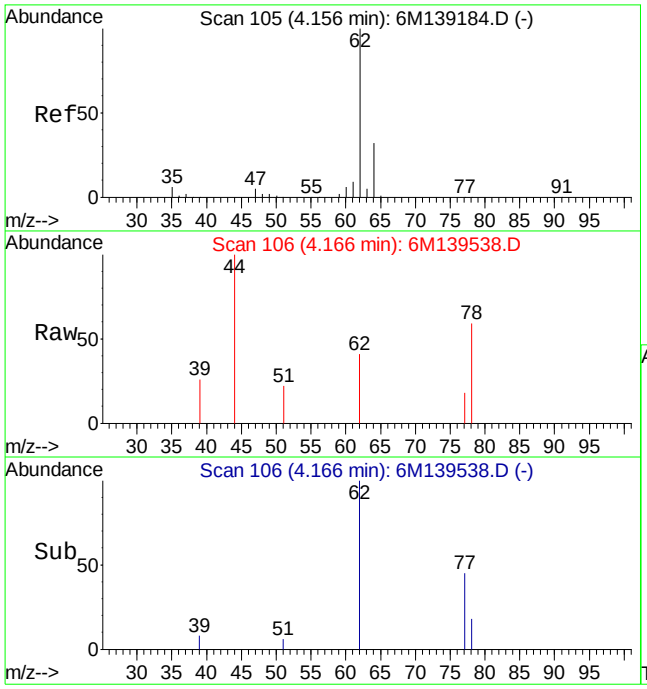


#3
Chloromethane
Concen: 0.13 ug/L
RT: 3.92 min Scan# 82
Delta R.T. -0.01 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 50 Resp: 1742

Ion	Ratio	Lower	Upper
50	100		
52	50.0	19.8	46.2#

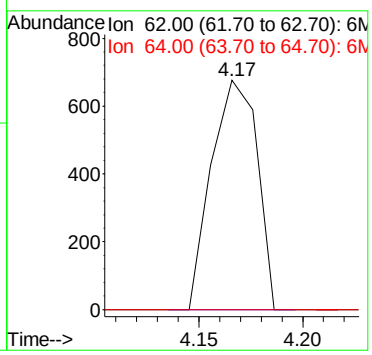


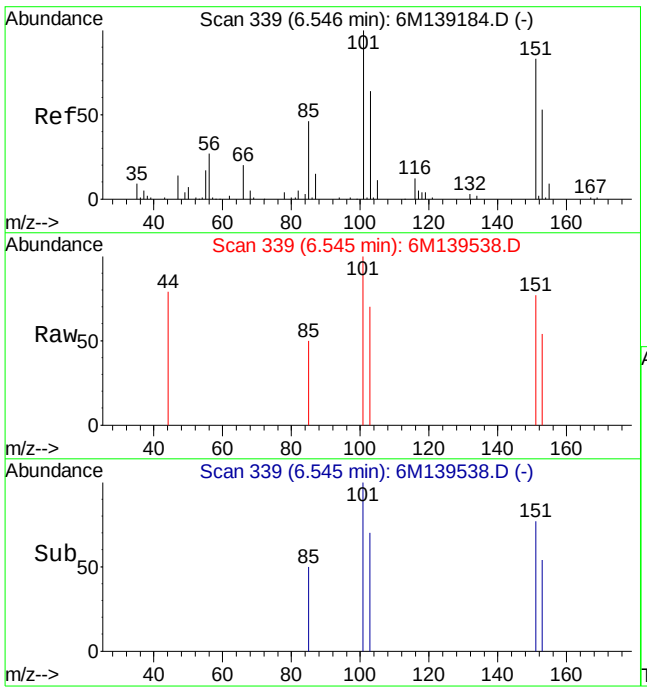


#4
Vinyl Chloride
Concen: 0.12 ug/L
RT: 4.17 min Scan# 106
Delta R.T. 0.01 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 62 Resp: 1037

Ion	Ratio	Lower	Upper
62	100		
64	0.0	19.3	45.1#

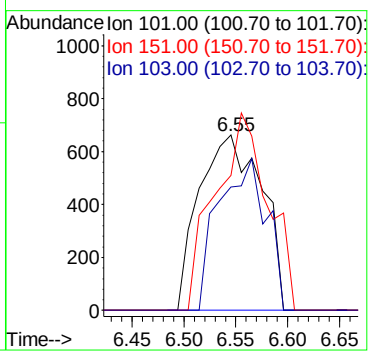


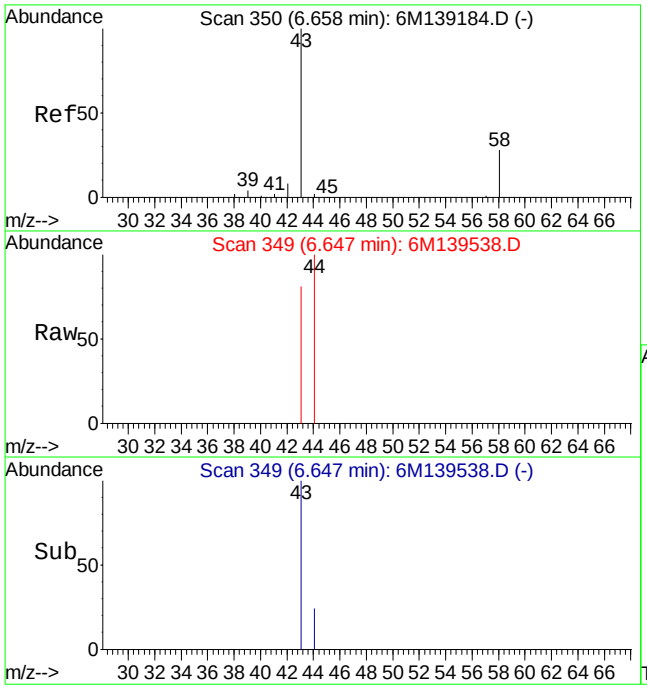


#12
1,1,2-Trichloro-1,2,2-Trifluoroethane
Concen: 0.46 ug/L
RT: 6.55 min Scan# 339
Delta R.T. -0.00 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion:101 Resp: 2780

Ion	Ratio	Lower	Upper
101	100		
151	94.5	49.4	115.2
103	66.0	38.8	90.4

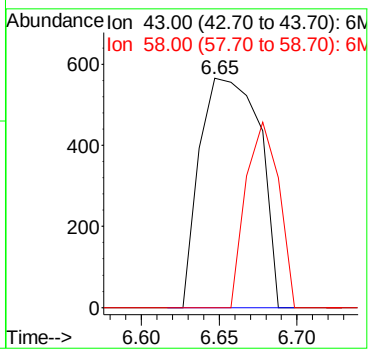


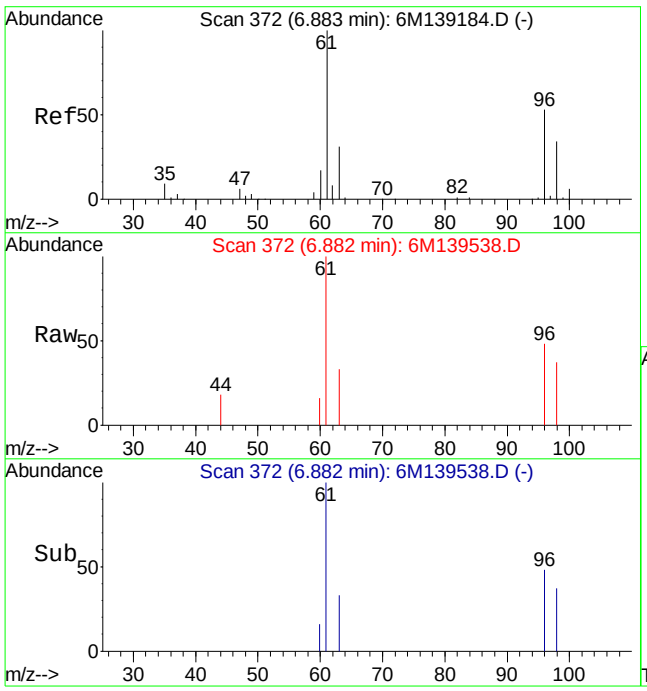


#13
Acetone
Concen: Below Cal
RT: 6.65 min Scan# 349
Delta R.T. -0.01 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 43 Resp: 1515

Ion	Ratio	Lower	Upper
43	100		
58	44.6	16.4	38.2#

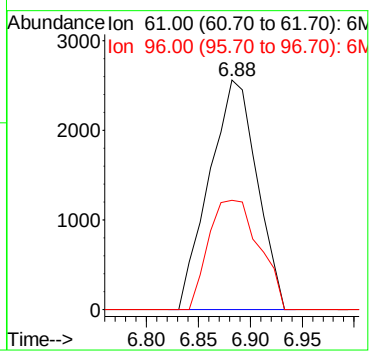


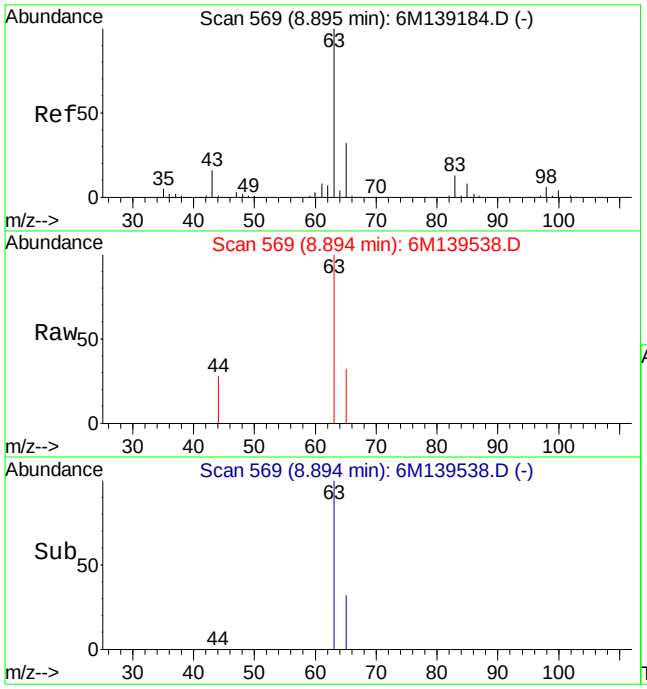


#14
1,1-Dichloroethene
Concen: 0.74 ug/L
RT: 6.88 min Scan# 372
Delta R.T. -0.00 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 61 Resp: 8178

Ion	Ratio	Lower	Upper
61	100		
96	50.5	32.0	74.6

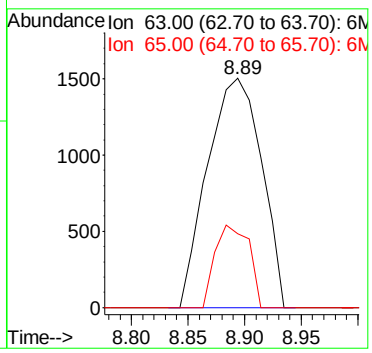


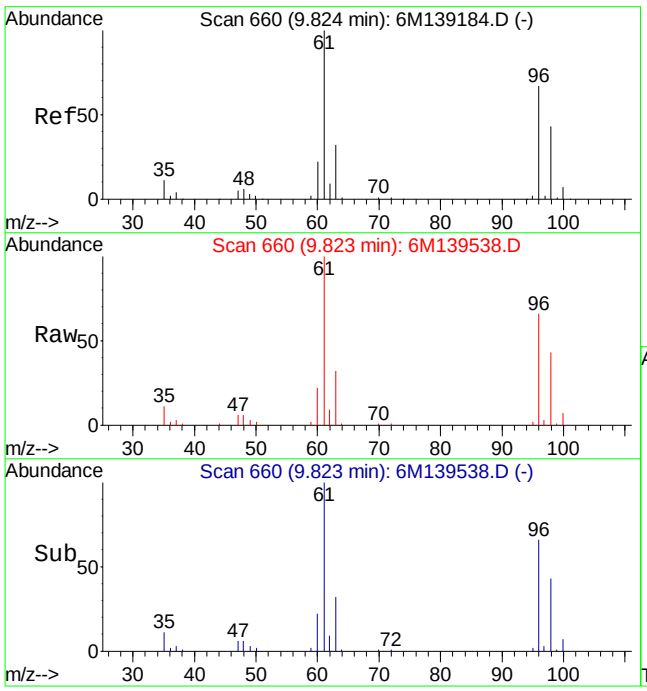


#27
1,1-Dichloroethane
Concen: 0.40 ug/L
RT: 8.89 min Scan# 569
Delta R.T. -0.00 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 63 Resp: 4999

Ion	Ratio	Lower	Upper
63	100		
65	22.5	19.3	44.9

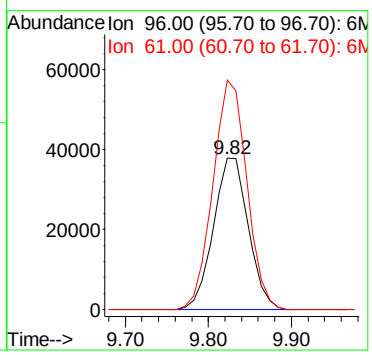


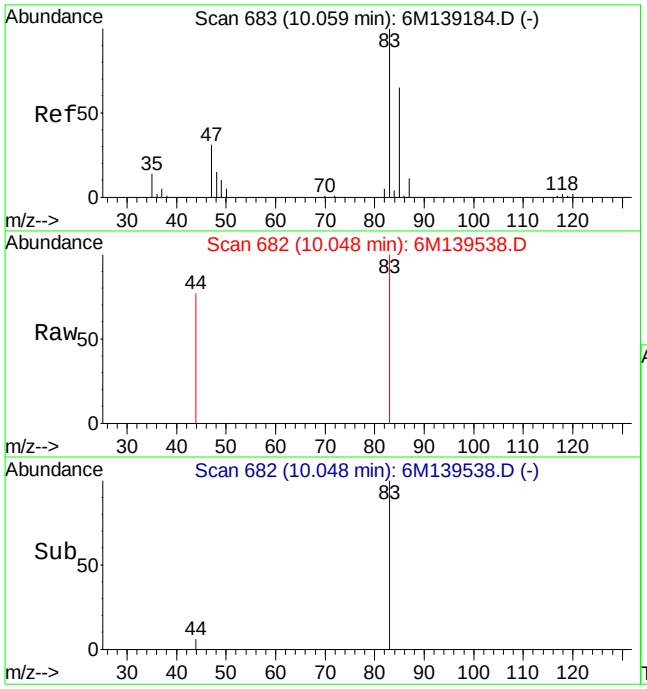


#32
cis-1,2-Dichloroethene
Concen: 15.78 ug/L
RT: 9.82 min Scan# 660
Delta R.T. -0.00 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 96 Resp: 110253

Ion	Ratio	Lower	Upper
96	100		
61	147.5	89.2	208.2

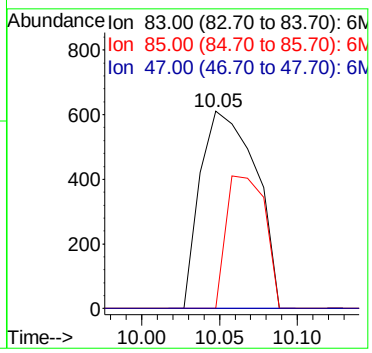


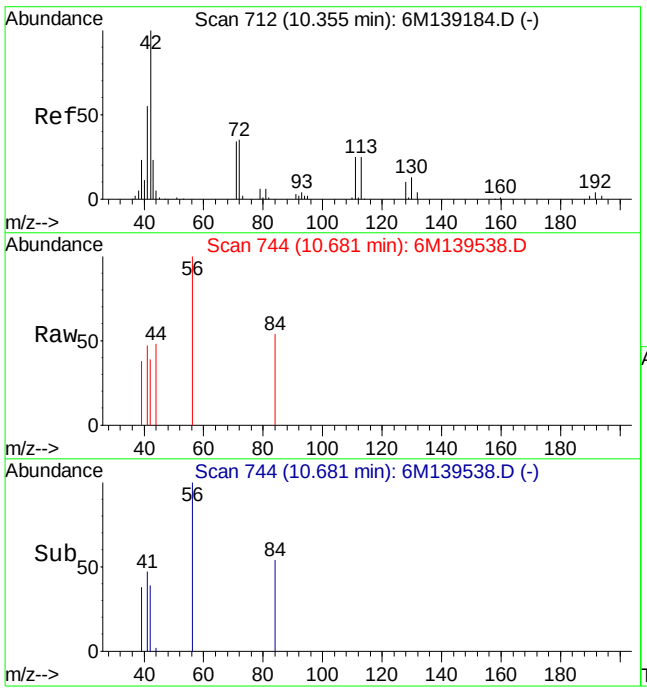


#33
Chloroform
Concen: 0.13 ug/L
RT: 10.05 min Scan# 682
Delta R.T. -0.01 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 83 Resp: 1515

Ion	Ratio	Lower	Upper
83	100		
85	46.9	39.0	91.0
47	0.0	18.5	43.1#

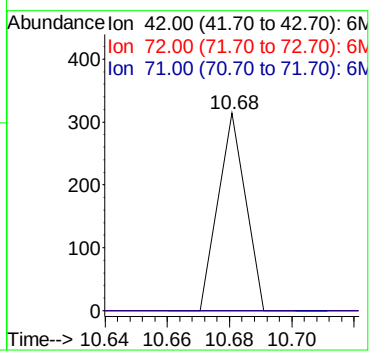


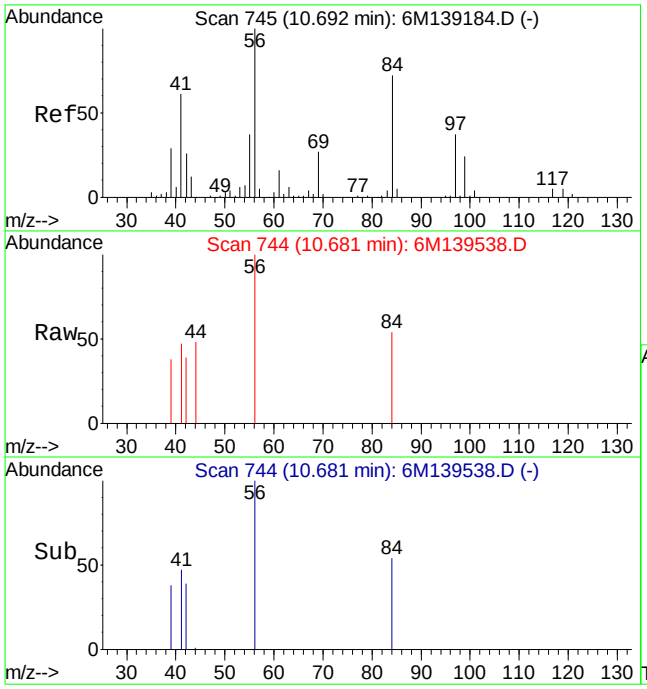


#36
Tetrahydrofuran
Concen: Below Cal
RT: 10.68 min Scan# 744
Delta R.T. 0.33 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 42 Resp: 192

Ion	Ratio	Lower	Upper
42	100		
72	0.0	20.8	48.4#
71	0.0	19.9	46.5#

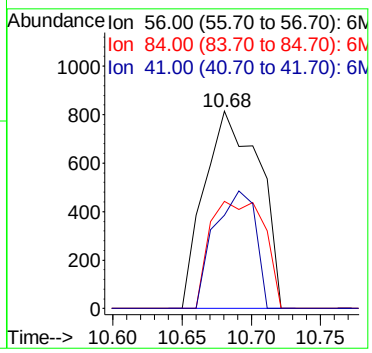


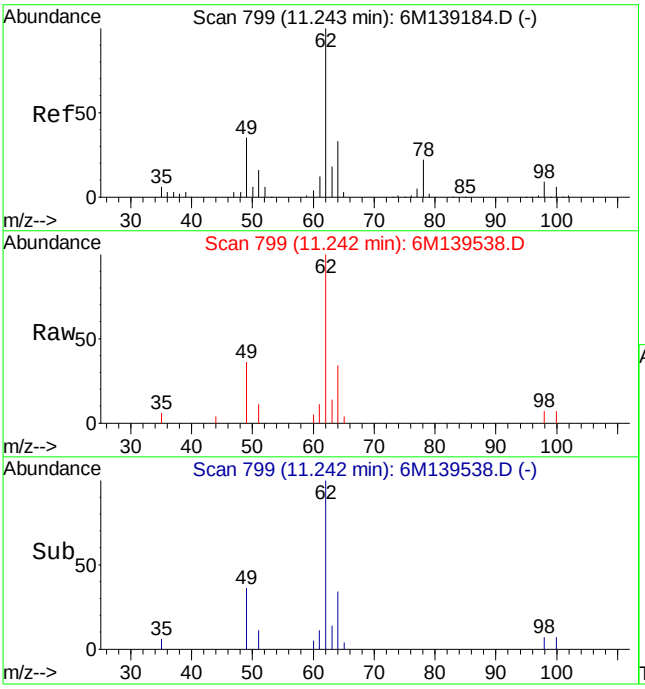


#39
Cyclohexane
Concen: 0.22 ug/L
RT: 10.68 min Scan# 744
Delta R.T. -0.01 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 56 Resp: 2248

Ion	Ratio	Lower	Upper
56	100		
84	53.6	43.6	101.6
41	44.4	37.1	86.5

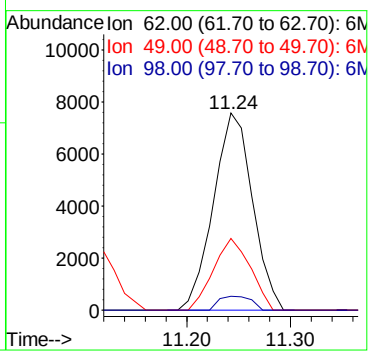


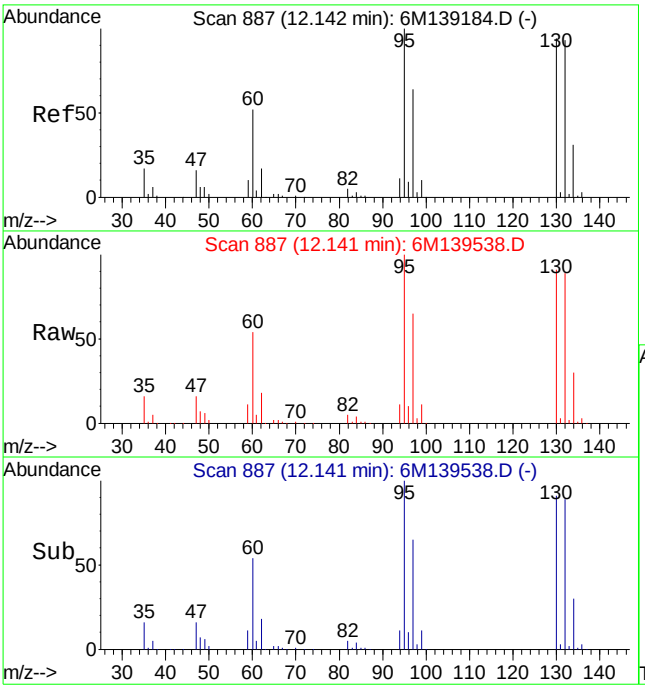


#45
1,2-Dichloroethane
Concen: 2.24 ug/L
RT: 11.24 min Scan# 799
Delta R.T. -0.00 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 62 Resp: 19889

Ion	Ratio	Lower	Upper
62	100		
49	34.3	25.1	58.5
98	5.9	5.2	12.0

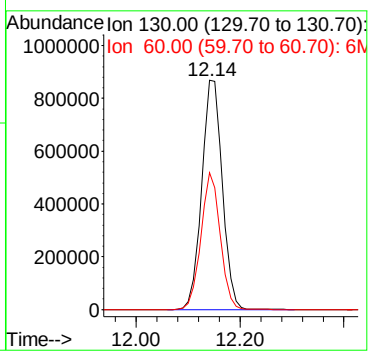


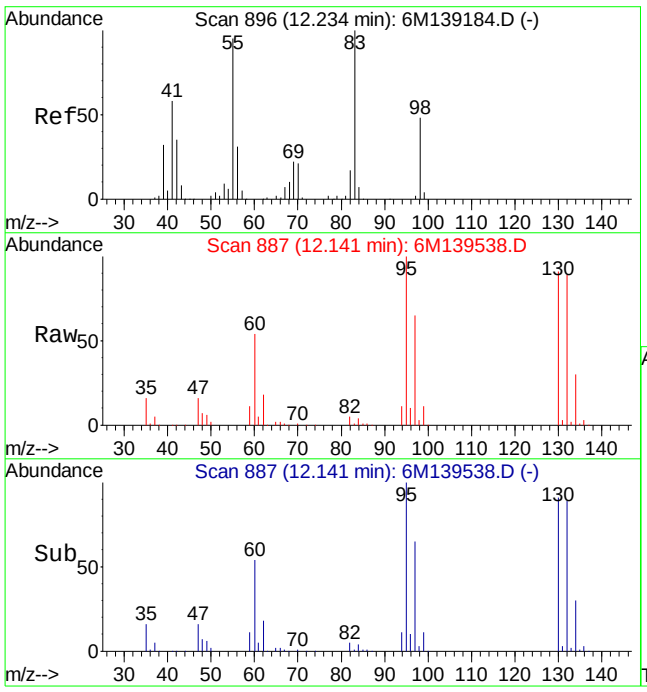


#47
Trichloroethene
Concen: 362.79 ug/L
RT: 12.14 min Scan# 887
Delta R.T. -0.00 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion:130 Resp: 2402451

Ion	Ratio	Lower	Upper
130	100		
60	55.8	32.0	74.6

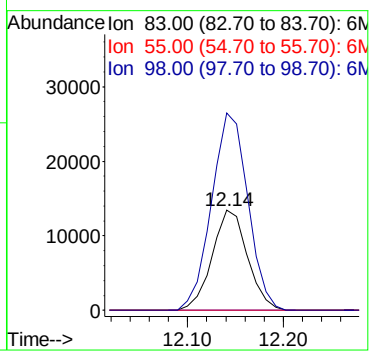


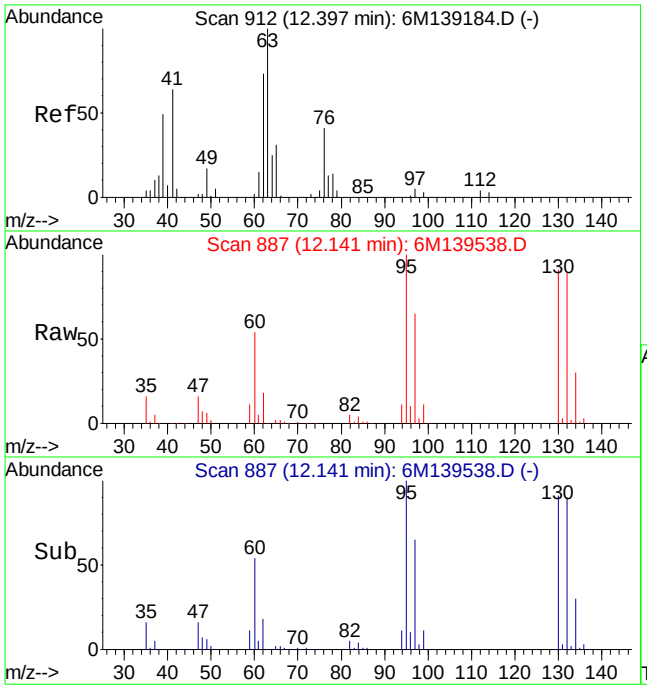


#48
Methylcyclohexane
Concen: 3.94 ug/L
RT: 12.14 min Scan# 887
Delta R.T. -0.09 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 83 Resp: 34315

Ion	Ratio	Lower	Upper
83	100		
55	0.0	56.3	131.3#
98	202.3	28.4	66.4#

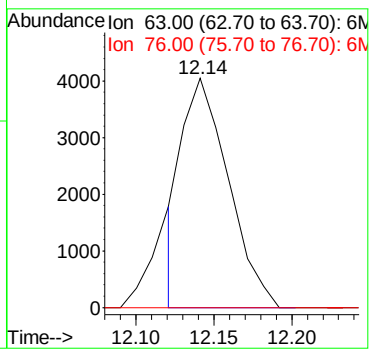


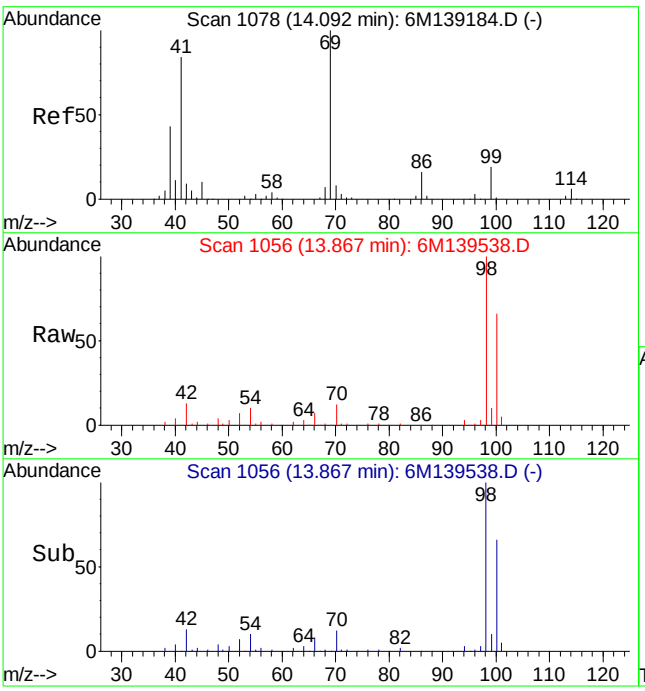


#49
1,2-Dichloropropane
Concen: 1.18 ug/L
RT: 12.14 min Scan# 887
Delta R.T. -0.26 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 63 Resp: 8394

Ion	Ratio	Lower	Upper
63	100		
76	0.0	24.2	56.4#

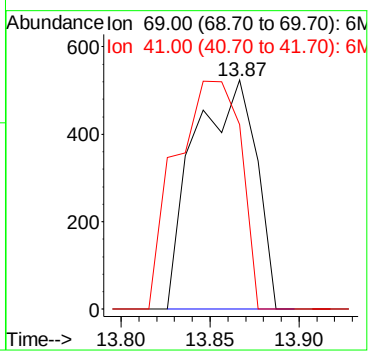


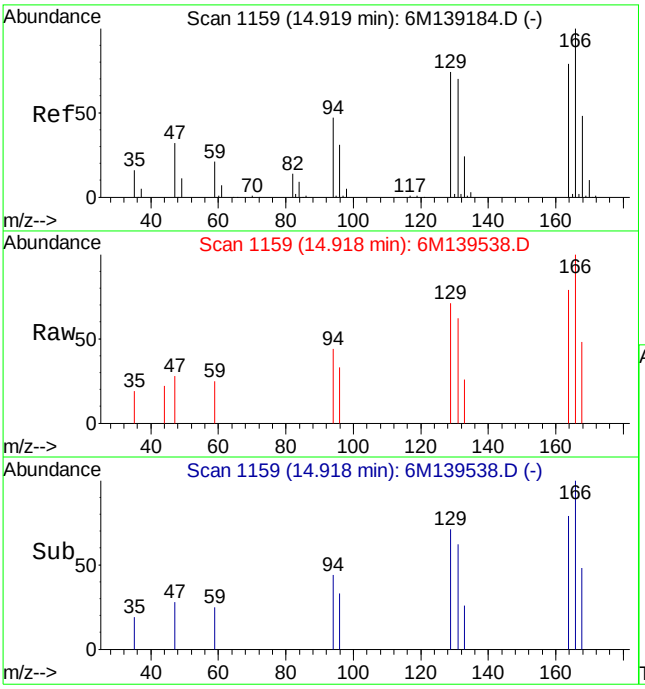


#60
Ethyl Methacrylate
Concen: 0.17 ug/L
RT: 13.87 min Scan# 1056
Delta R.T. -0.23 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion: 69 Resp: 1270

Ion	Ratio	Lower	Upper
69	100		
41	104.6	51.4	120.0

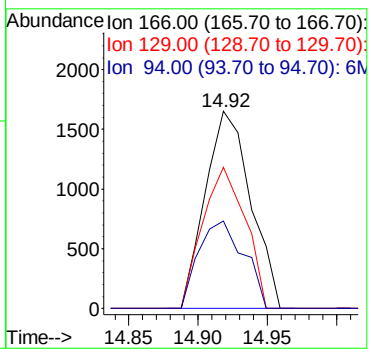




#66
Tetrachloroethene
Concen: 0.55 ug/L
RT: 14.92 min Scan# 1159
Delta R.T. -0.00 min
Lab File: 6M139538.D
Acq: 23 May 2016 00:07

Tgt Ion:166 Resp: 3772

Ion	Ratio	Lower	Upper
166	100		
129	66.9	43.5	101.5
94	44.0	27.8	64.8



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052316\6M139558.D Vial: 17
Acq On : 23 May 2016 18:19 Operator: TMB
Sample : L16050972-08 B 5X 826-LOW D1 Inst : HPMS6
Misc : 1,5 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 06:29:45 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

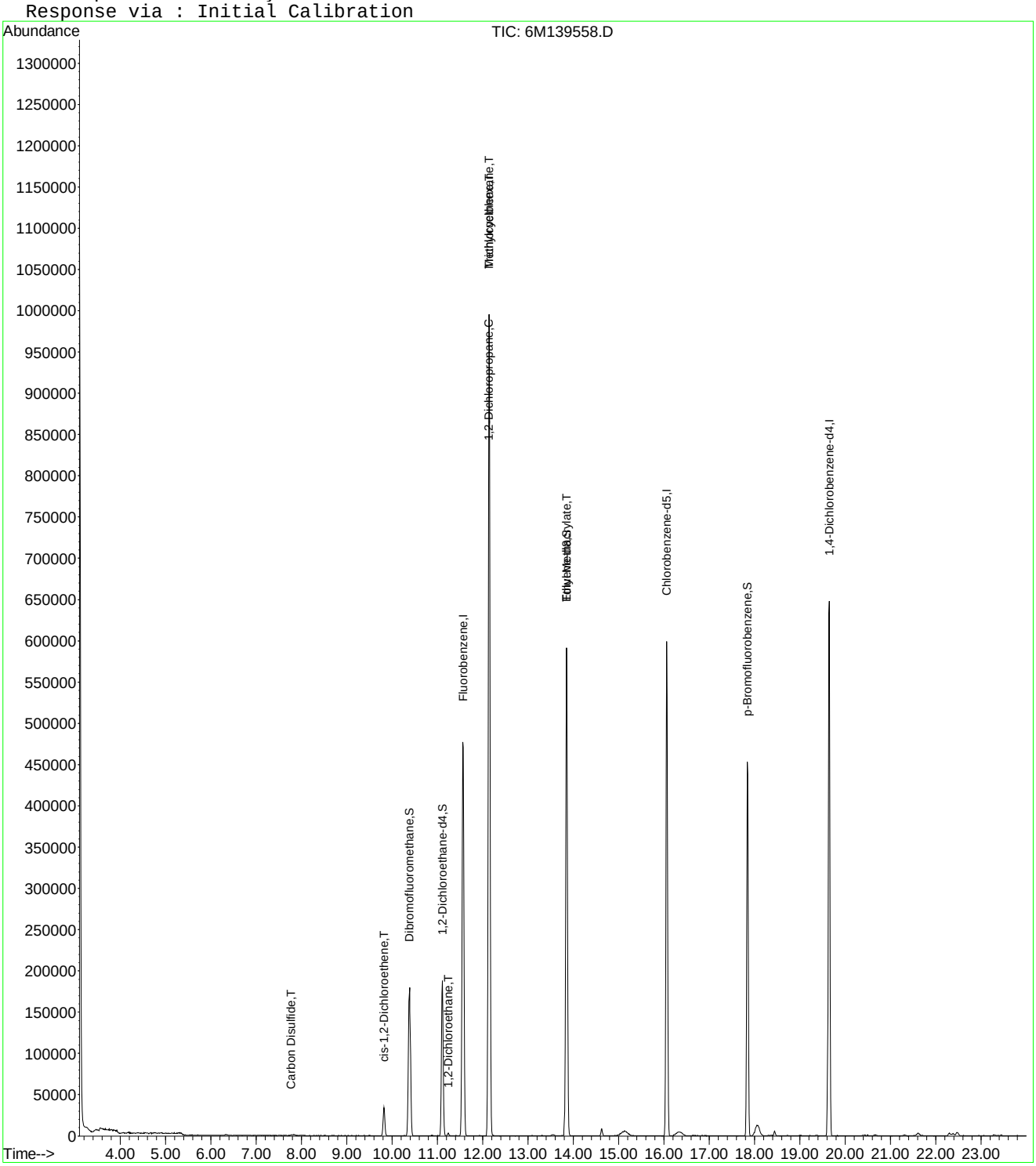
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	621409	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.06	117	456529	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	240644	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.39	111	164067	25.1511 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.60%		
43) 1,2-Dichloroethane-d4	11.11	65	177212	24.3907 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 97.56%		
58) Toluene-d8	13.85	98	550678	24.5098 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.04%		
80) p-Bromofluorobenzene	17.84	95	218799	24.5283 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.12%		
Target Compounds					Qvalue
13) Acetone	6.65	43	469	Below Cal	# 48
20) Carbon Disulfide	7.77	76	1627	0.1388 ug/L	# 74
32) cis-1,2-Dichloroethene	9.82	96	21060	2.9422 ug/L	97
36) Tetrahydrofuran	10.36	42	194	Below Cal	# 41
45) 1,2-Dichloroethane	11.24	62	4065	0.4474 ug/L	# 70
47) Trichloroethene	12.14	130	436913	64.3834 ug/L	99
48) Methylcyclohexane	12.14	83	5302	0.5934 ug/L	# 1
49) 1,2-Dichloropropane	12.13	63	1551	0.2130 ug/L	# 35
60) Ethyl Methacrylate	13.85	69	1351	0.1718 ug/L	# 46

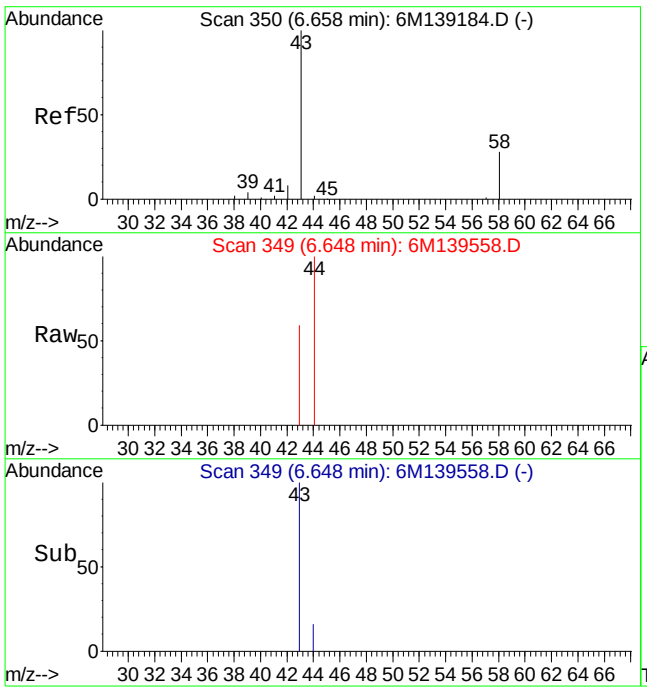
(#) = qualifier out of range (m) = manual integration
6M139558.D 8260WTR.M Tue May 24 06:29:45 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052316\6M139558.D Vial: 17
Acq On : 23 May 2016 18:19 Operator: TMB
Sample : L16050972-08 B 5X 826-LOW D1 Inst : HPMS6
Misc : 1,5 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 24 6:29 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration

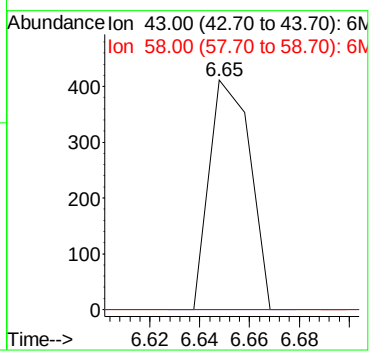


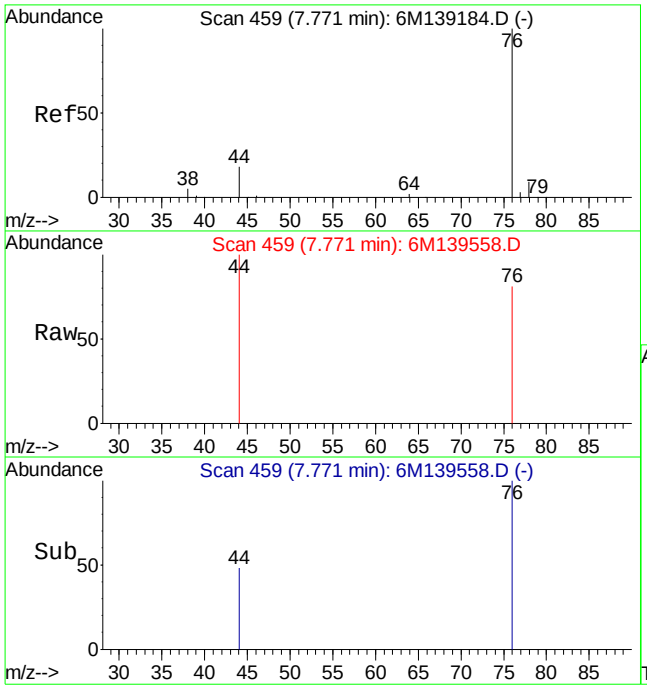


#13
Acetone
Concen: Below Cal
RT: 6.65 min Scan# 349
Delta R.T. -0.01 min
Lab File: 6M139558.D
Acq: 23 May 2016 18:19

Tgt Ion: 43 Resp: 469

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#

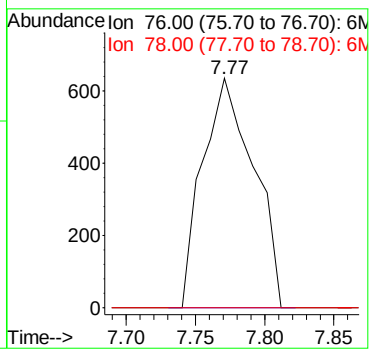


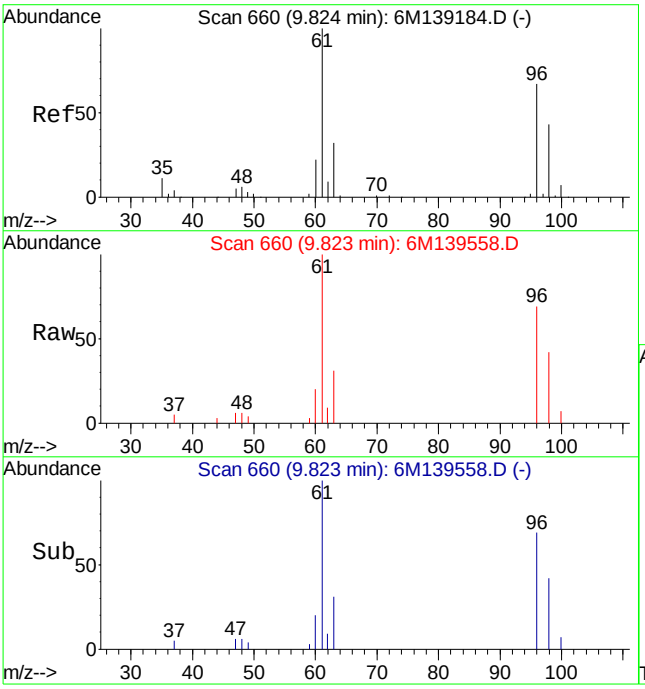


#20
Carbon Disulfide
Concen: 0.14 ug/L
RT: 7.77 min Scan# 459
Delta R.T. -0.00 min
Lab File: 6M139558.D
Acq: 23 May 2016 18:19

Tgt Ion: 76 Resp: 1627

Ion	Ratio	Lower	Upper
76	100		
78	0.0	5.7	13.3#

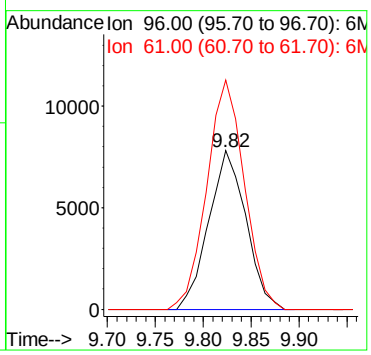


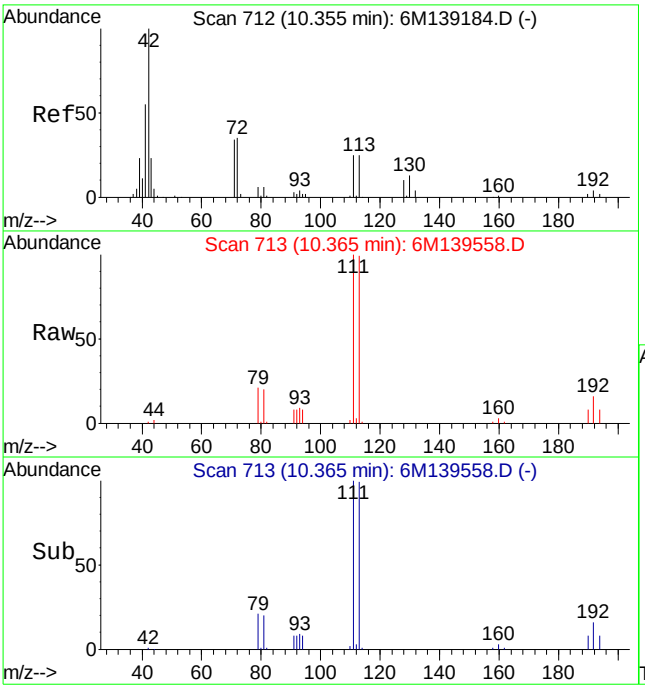


#32
cis-1,2-Dichloroethene
Concen: 2.94 ug/L
RT: 9.82 min Scan# 660
Delta R.T. -0.00 min
Lab File: 6M139558.D
Acq: 23 May 2016 18:19

Tgt Ion: 96 Resp: 21060

Ion	Ratio	Lower	Upper
96	100		
61	145.4	89.2	208.2

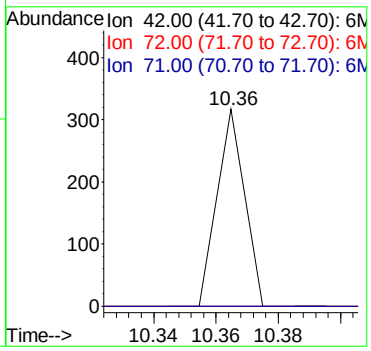


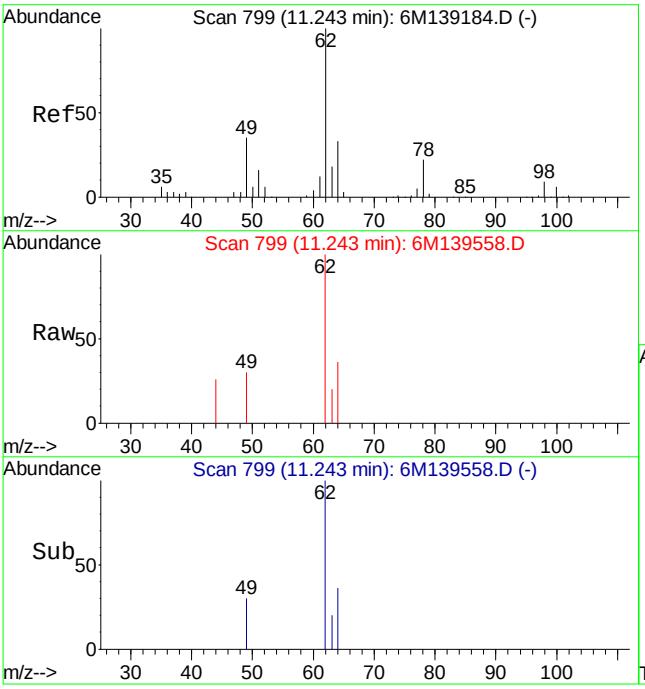


#36
Tetrahydrofuran
Concen: Below Cal
RT: 10.36 min Scan# 713
Delta R.T. 0.01 min
Lab File: 6M139558.D
Acq: 23 May 2016 18:19

Tgt Ion: 42 Resp: 194

Ion	Ratio	Lower	Upper
42	100		
72	0.0	20.8	48.4#
71	0.0	19.9	46.5#

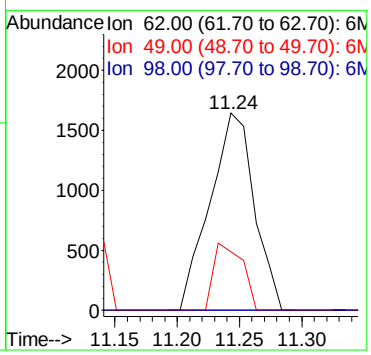


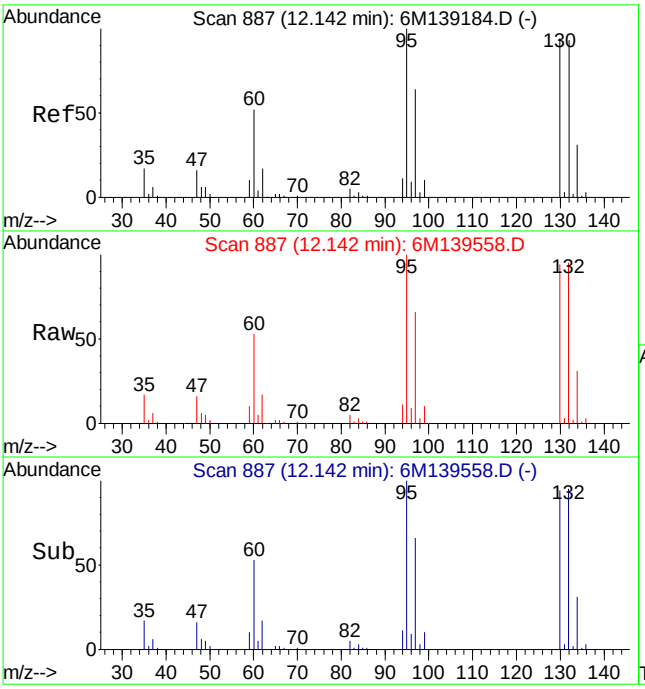


#45
1,2-Dichloroethane
Concen: 0.45 ug/L
RT: 11.24 min Scan# 799
Delta R.T. -0.00 min
Lab File: 6M139558.D
Acq: 23 May 2016 18:19

Tgt Ion: 62 Resp: 4065

Ion	Ratio	Lower	Upper
62	100		
49	22.0	25.1	58.5#
98	0.0	5.2	12.0#

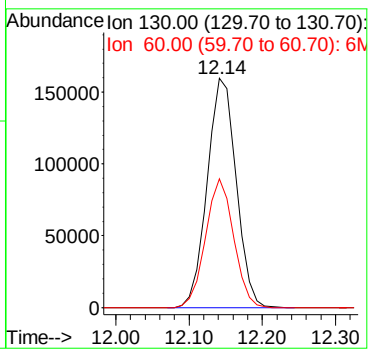


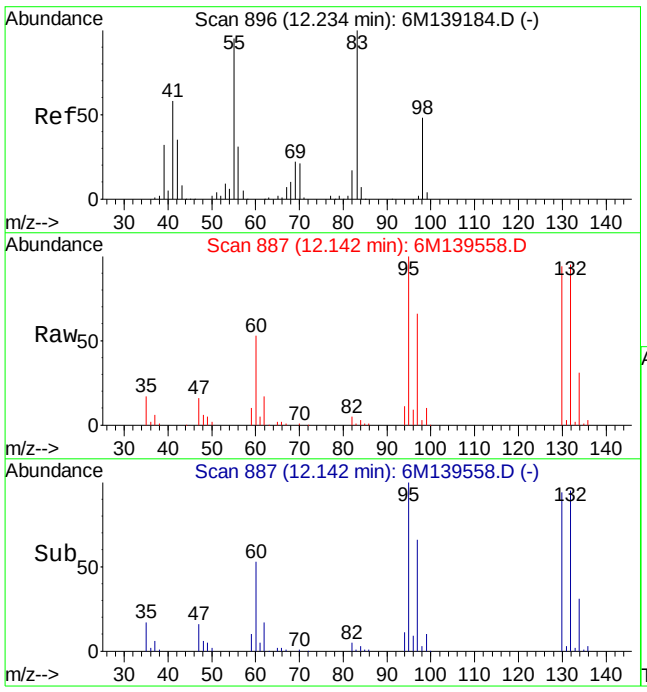


#47
Trichloroethene
Concen: 64.38 ug/L
RT: 12.14 min Scan# 887
Delta R.T. -0.00 min
Lab File: 6M139558.D
Acq: 23 May 2016 18:19

Tgt Ion:130 Resp: 436913

Ion	Ratio	Lower	Upper
130	100		
60	54.3	32.0	74.6

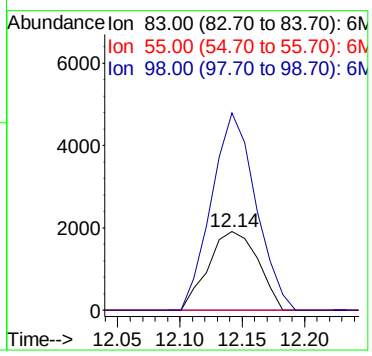


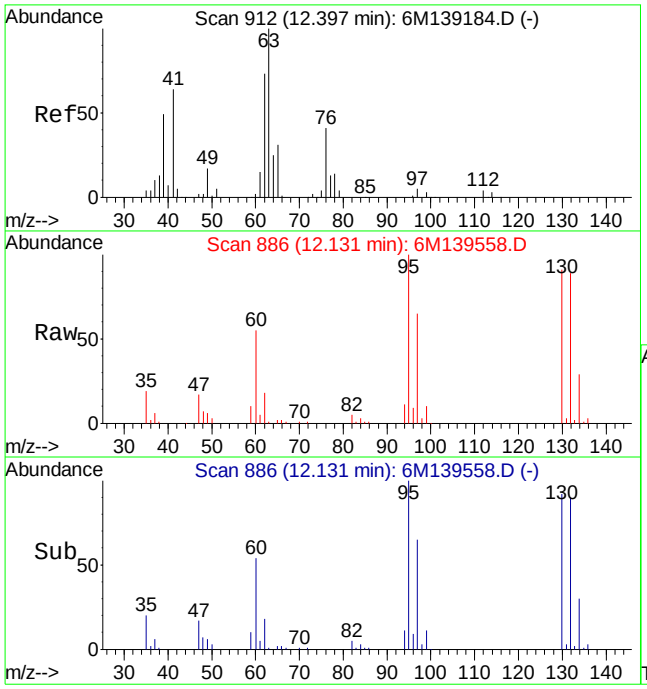


#48
Methylcyclohexane
Concen: 0.59 ug/L
RT: 12.14 min Scan# 887
Delta R.T. -0.09 min
Lab File: 6M139558.D
Acq: 23 May 2016 18:19

Tgt Ion: 83 Resp: 5302

Ion	Ratio	Lower	Upper
83	100		
55	0.0	56.3	131.3#
98	224.0	28.4	66.4#

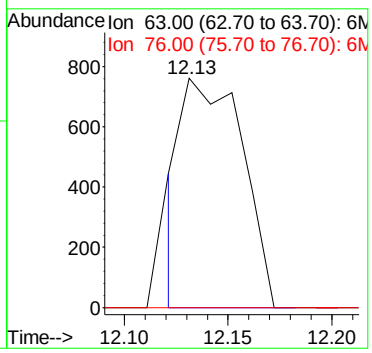


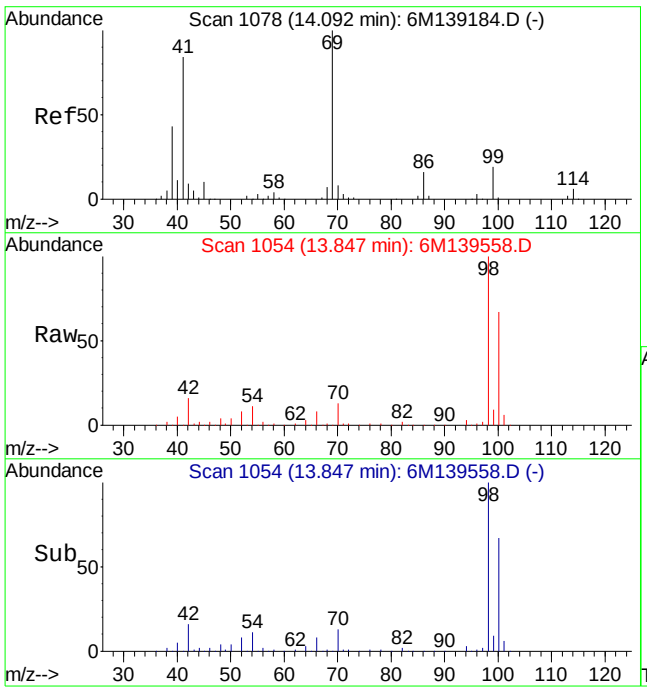


#49
1,2-Dichloropropane
Concen: 0.21 ug/L
RT: 12.13 min Scan# 886
Delta R.T. -0.27 min
Lab File: 6M139558.D
Acq: 23 May 2016 18:19

Tgt Ion: 63 Resp: 1551

Ion	Ratio	Lower	Upper
63	100		
76	0.0	24.2	56.4#

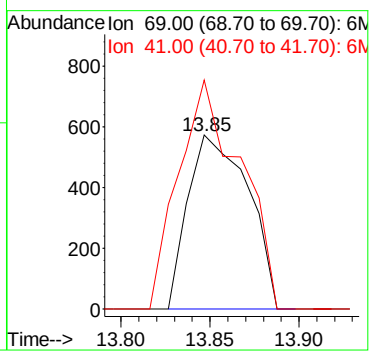




#60
Ethyl Methacrylate
Concen: 0.17 ug/L
RT: 13.85 min Scan# 1054
Delta R.T. -0.25 min
Lab File: 6M139558.D
Acq: 23 May 2016 18:19

Tgt Ion: 69 Resp: 1351

Ion	Ratio	Lower	Upper
69	100		
41	135.5	51.4	120.0#



Data File : C:\MSDCHEM\1\DATA\052216\6M139524.D Vial: 9
Acq On : 22 May 2016 16:37 Operator: FJB
Sample : L16050972-09 TB A 826-LOW Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 08:36:54 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

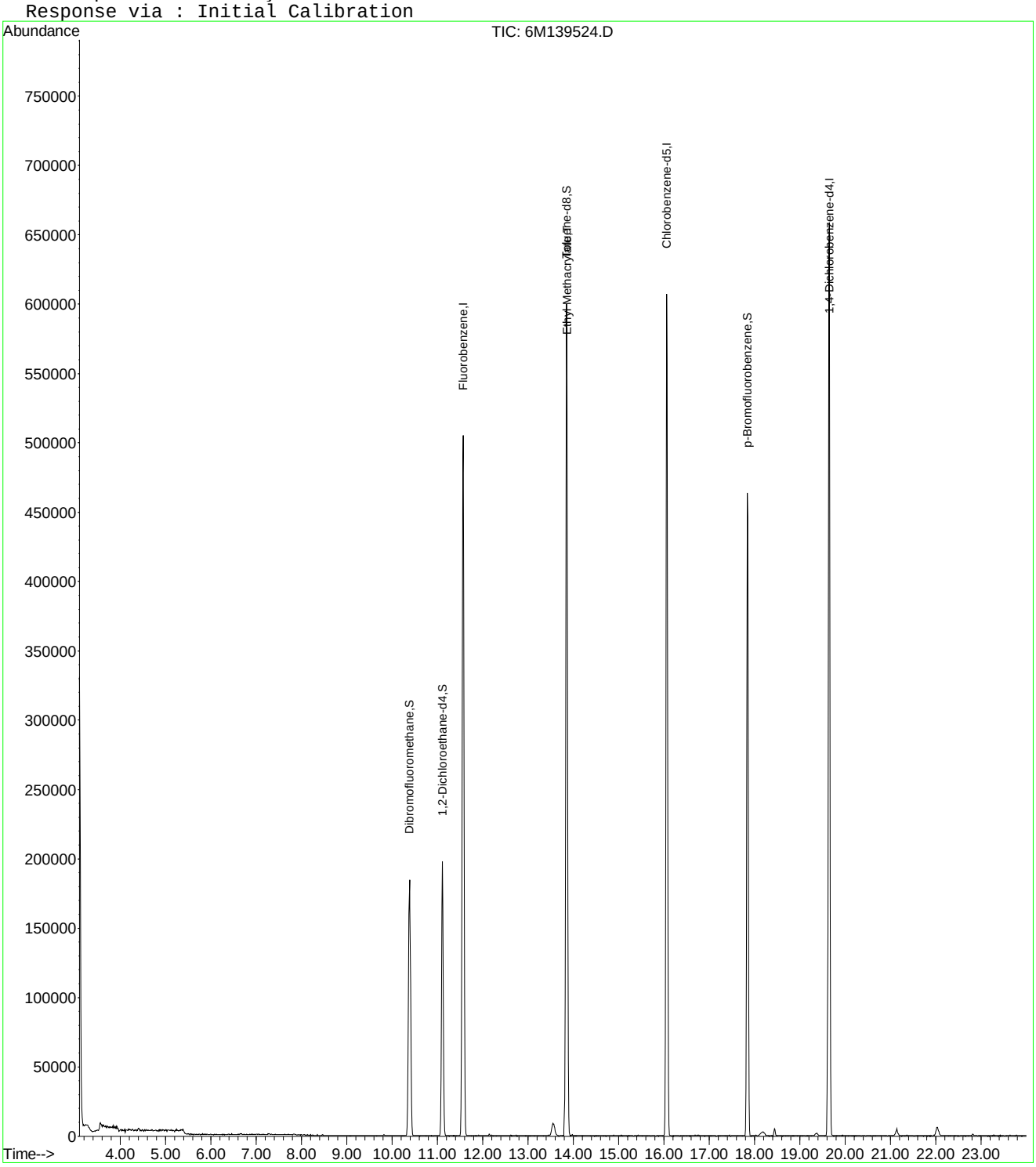
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	644189	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.06	117	465427	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	243538	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.38	111	166954	24.6887 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 98.76%		
43) 1,2-Dichloroethane-d4	11.11	65	181372	24.0805 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 96.32%		
58) Toluene-d8	13.85	98	563788	24.6136 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 98.44%		
80) p-Bromofluorobenzene	17.84	95	221371	24.5218 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.08%		
Target Compounds					Qvalue
13) Acetone	6.66	43	1217	Below Cal	# 48
36) Tetrahydrofuran	10.35	42	5219	Below Cal	86
60) Ethyl Methacrylate	13.86	69	1059	0.1321 ug/L	# 27

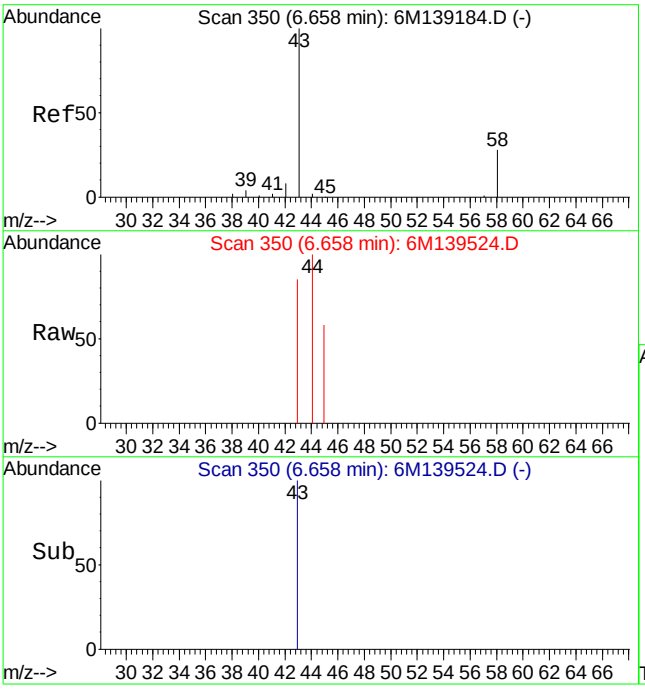
(#) = qualifier out of range (m) = manual integration
6M139524.D 8260WTR.M Mon May 23 08:36:54 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052216\6M139524.D Vial: 9
Acq On : 22 May 2016 16:37 Operator: FJB
Sample : L16050972-09 TB A 826-LOW Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 8:36 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration

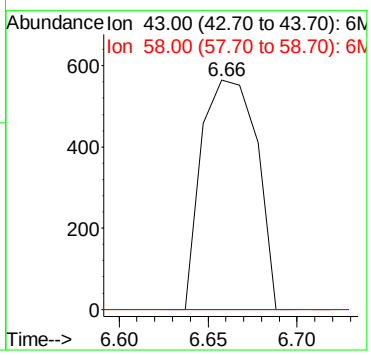


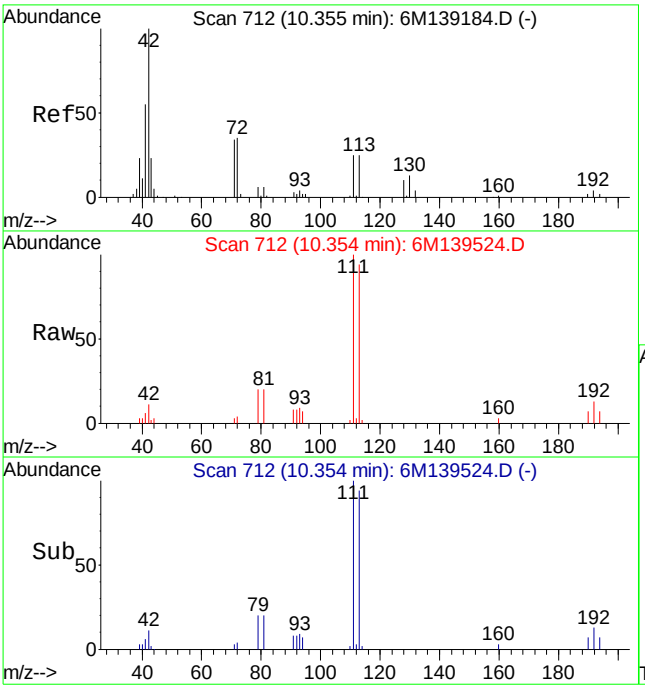


#13
Acetone
Concen: Below Cal
RT: 6.66 min Scan# 350
Delta R.T. -0.00 min
Lab File: 6M139524.D
Acq: 22 May 2016 16:37

Tgt Ion: 43 Resp: 1217

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#

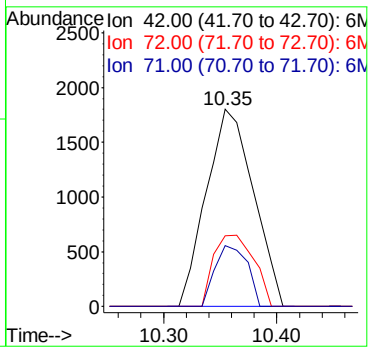


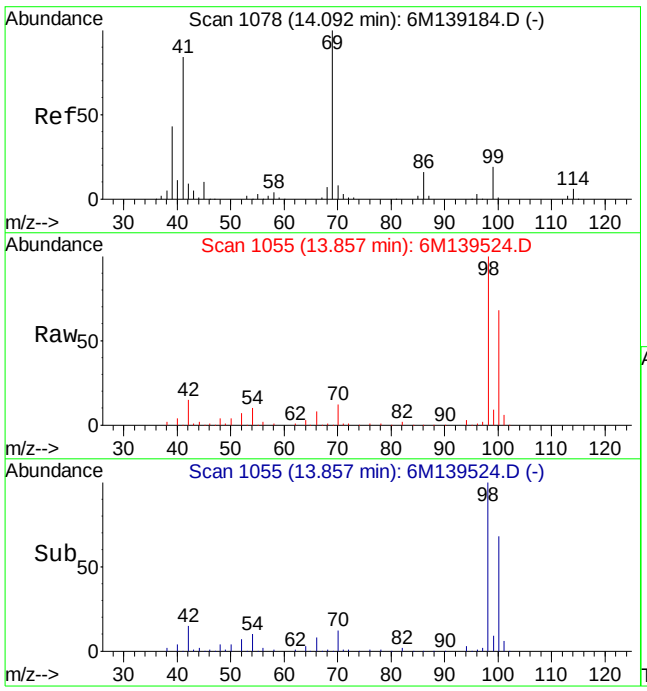


#36
Tetrahydrofuran
Concen: Below Cal
RT: 10.35 min Scan# 712
Delta R.T. 0.00 min
Lab File: 6M139524.D
Acq: 22 May 2016 16:37

Tgt Ion: 42 Resp: 5219

Ion	Ratio	Lower	Upper
42	100		
72	30.8	20.8	48.4
71	21.0	19.9	46.5

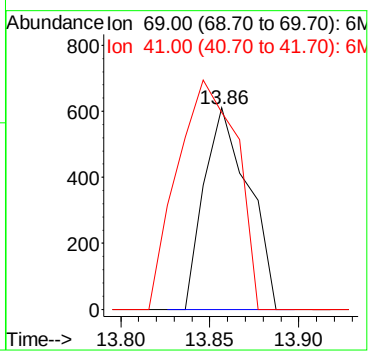




#60
Ethyl Methacrylate
Concen: 0.13 ug/L
RT: 13.86 min Scan# 1055
Delta R.T. -0.24 min
Lab File: 6M139524.D
Acq: 22 May 2016 16:37

Tgt Ion: 69 Resp: 1059

Ion	Ratio	Lower	Upper
69	100		
41	153.0	51.4	120.0#



2.1.1.4 Standards Data

Data File : C:\MSDCHEM\1\DATA\042416\6M138751.D Vial: 2
Acq On : 24 Apr 2016 16:59 Operator: JDS
Sample : WG566155-02 5ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 09:22:46 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

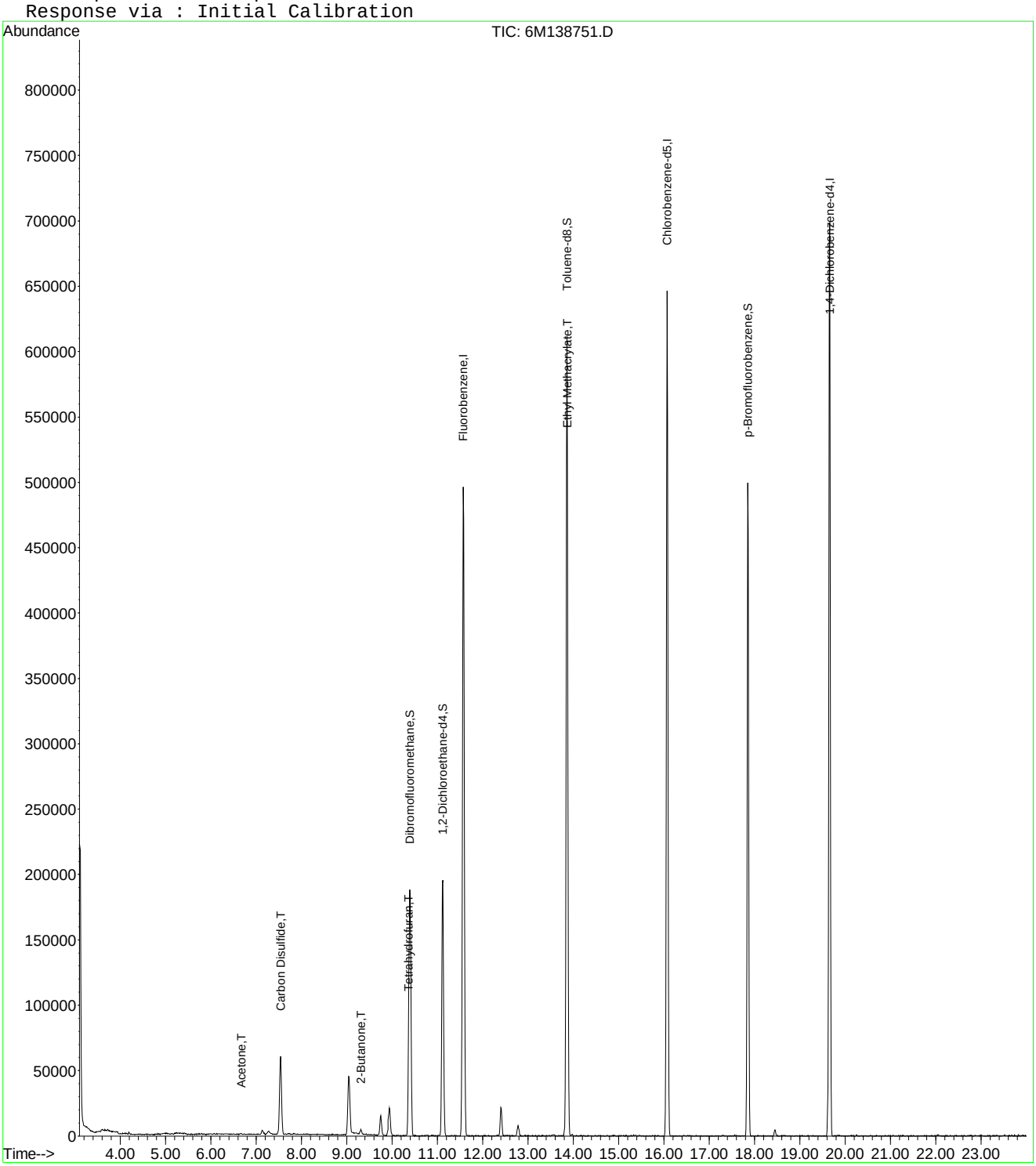
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.57	96	611118	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.07	117	473080	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.66	152	253718	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.40	111	173671	27.7488	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 111.00%			
43) 1,2-Dichloroethane-d4	11.12	65	203570	26.8000	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 107.20%			
58) Toluene-d8	13.86	98	554047	26.0139	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.04%			
80) p-Bromofluorobenzene	17.85	95	229998	27.1525	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 108.60%			
Target Compounds						Qvalue
13) Acetone	6.67	43	1325	0.6992	ug/L #	46
20) Carbon Disulfide	7.54	76	18747	0.9622	ug/L #	39
29) 2-Butanone	9.31	43	1188	0.4247	ug/L #	1
36) Tetrahydrofuran	10.36	42	2769	1.5196	ug/L #	58
60) Ethyl Methacrylate	13.87	69	899	0.1270	ug/L #	1

(#) = qualifier out of range (m) = manual integration
6M138751.D 8260WTR.M Mon Apr 25 09:22:46 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138751.D Vial: 2
Acq On : 24 Apr 2016 16:59 Operator: JDS
Sample : WG566155-02 5ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 9:22 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138751.D Vial: 2
Acq On : 24 Apr 2016 16:59 Operator: JDS
Sample : WG566155-02 5ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45:52 2016 Quant Results File: A9FOOWT.RES

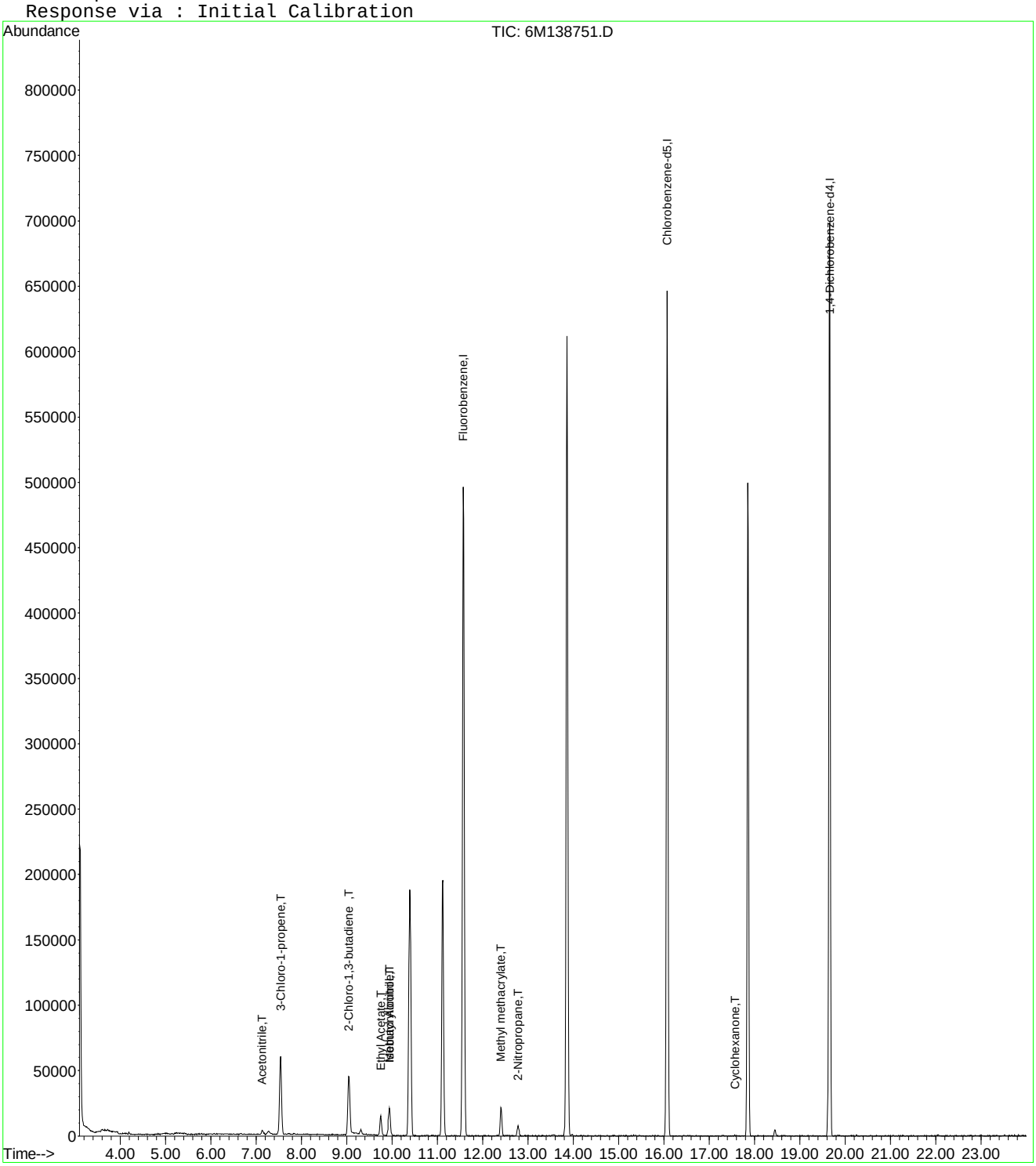
Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	611118	25.00	ug/L		-0.03
11) Chlorobenzene-d5	16.07	117	473080	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	19.66	152	253718	25.00	ug/L		-0.02
Target Compounds							Qvalue
2) Acetonitrile	7.13	41	4366	3.7209	ug/L		76
3) 3-Chloro-1-propene	7.54	41	69268	4.2301	ug/L		92
4) 2-Chloro-1,3-butadiene	9.04	53	50753	3.6002	ug/L		85
5) Ethyl Acetate	9.75	43	28042	4.3499	ug/L	#	90
6) Methacrylonitrile	9.94	67	8721	3.5173	ug/L	#	55
7) Isobutyl Alcohol	9.94	43	1233	3.4767	ug/L	#	85
9) Methyl methacrylate	12.40	41	19474	3.0338	ug/L		79
10) 2-Nitropropane	12.78	43	7076	3.7392	ug/L		93
13) Cyclohexanone	17.57	55	447	0.5159	ug/L	#	25

(#) = qualifier out of range (m) = manual integration
6M138751.D A9FOOWT.M Mon Apr 25 15:45:52 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\042416\6M138751.D Vial: 2
Acq On : 24 Apr 2016 16:59 Operator: JDS
Sample : WG566155-02 5ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138751.D Vial: 2
Acq On : 24 Apr 2016 16:59 Operator: JDS
Sample : WG566155-02 5ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:04:56 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

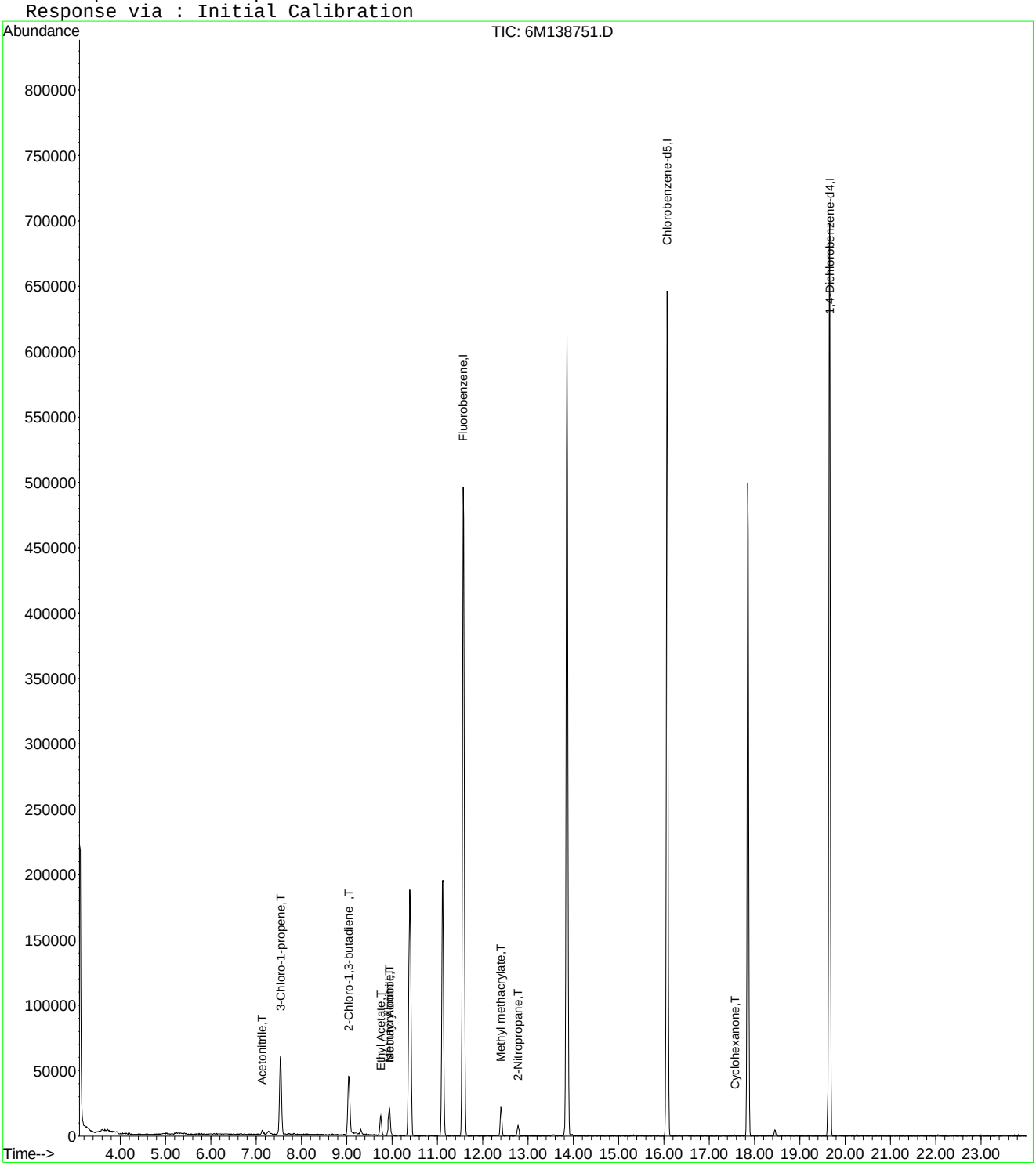
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	611118	25.00	ug/L		0.00
11) Chlorobenzene-d5	16.07	117	473080	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	19.66	152	253718	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	7.13	41	4366	4.7698	ug/L		76
3) 3-Chloro-1-propene	7.54	41	69268	4.5408	ug/L		92
4) 2-Chloro-1,3-butadiene	9.04	53	50753	3.8775	ug/L		85
5) Ethyl Acetate	9.75	43	28042	4.2792	ug/L	#	90
6) Methacrylonitrile	9.94	67	8721	3.8601	ug/L	#	55
7) Isobutyl Alcohol	9.94	43	1233	5.9076	ug/L	#	85
9) Methyl methacrylate	12.40	41	19474	3.5356	ug/L		79
10) 2-Nitropropane	12.78	43	7076	3.4543	ug/L		93
13) Cyclohexanone	17.57	55	447	1.4133	ug/L	#	25

(#) = qualifier out of range (m) = manual integration
6M138751.D A9FOOWT.M Wed Apr 27 16:04:56 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138751.D Vial: 2
Acq On : 24 Apr 2016 16:59 Operator: JDS
Sample : WG566155-02 5ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:04 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration



6M138751.D A9FOOWT.M Wed Apr 27 16:04:56 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\042416\6M138751.D Vial: 2
Acq On : 24 Apr 2016 16:59 Operator: JDS
Sample : WG566155-02 5ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	5.0000	4.7698	4.6	100	0.00
3	T	3-Chloro-1-propene	5.0000	4.5408	9.2	100	0.00
4	T	2-Chloro-1,3-butadiene	5.0000	3.8775	22.5	100	0.00
5	T	Ethyl Acetate	5.0000	4.2792	14.4	100	0.00
6	T	Methacrylonitrile	5.0000	3.8601	22.8	100	0.00
7	T	Isobutyl Alcohol	-1.0000	5.9076	0.0	100	0.00
8	T	1-Butanol	-1.0000	0.0000	0.0	0	-10.99#
9	T	Methyl methacrylate	5.0000	3.5356	29.3	100	0.00
10	T	2-Nitropropane	-1.0000	3.4543	0.0	100	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	-1.0000	1.4133	0.0	0	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M138751.D A9FOOWT.M Wed Apr 27 16:04:12 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\042416\6M138752.D Vial: 3
Acq On : 24 Apr 2016 17:31 Operator: JDS
Sample : WG566155-03 20ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 09:22:48 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

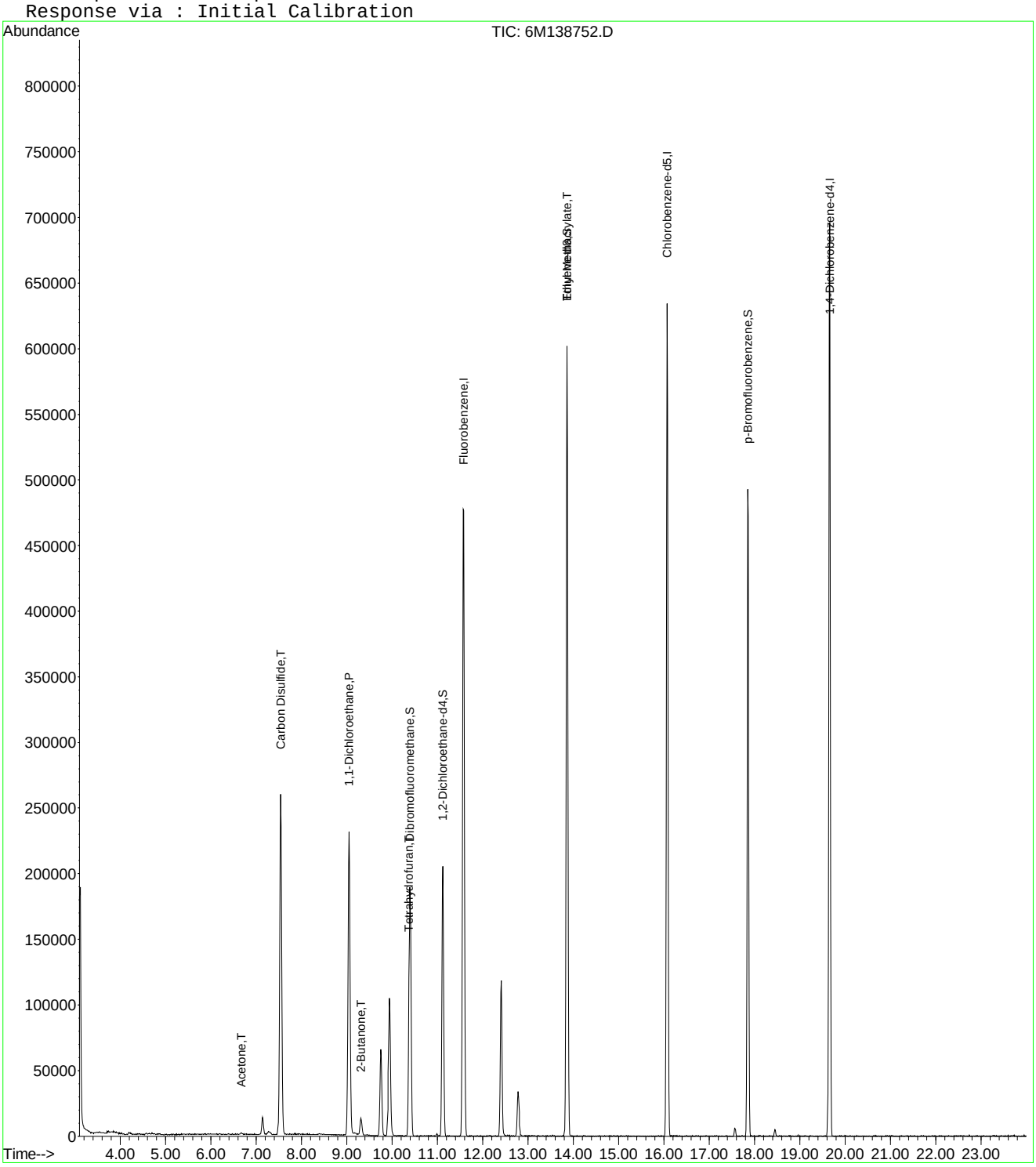
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.58	96	599043	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.07	117	463005	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.66	152	248475	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.39	111	171577	27.9669	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 111.88%			
43) 1,2-Dichloroethane-d4	11.12	65	207390	27.8532	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.40%			
58) Toluene-d8	13.86	98	547786	26.2796	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.12%			
80) p-Bromofluorobenzene	17.85	95	228171	27.5052	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 110.04%			
Target Compounds						Qvalue
13) Acetone	6.67	43	2739	1.4745	ug/L #	59
20) Carbon Disulfide	7.54	76	81493	4.2668	ug/L #	36
27) 1,1-Dichloroethane	9.05	63	3411	0.2688	ug/L #	42
29) 2-Butanone	9.31	43	3879	1.4148	ug/L #	1
36) Tetrahydrofuran	10.37	42	3350	1.8754	ug/L #	62
60) Ethyl Methacrylate	13.86	69	1183	0.1708	ug/L #	27

(#) = qualifier out of range (m) = manual integration
6M138752.D 8260WTR.M Mon Apr 25 09:22:48 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138752.D Vial: 3
Acq On : 24 Apr 2016 17:31 Operator: JDS
Sample : WG566155-03 20ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 9:22 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138752.D Vial: 3
Acq On : 24 Apr 2016 17:31 Operator: JDS
Sample : WG566155-03 20ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45:54 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

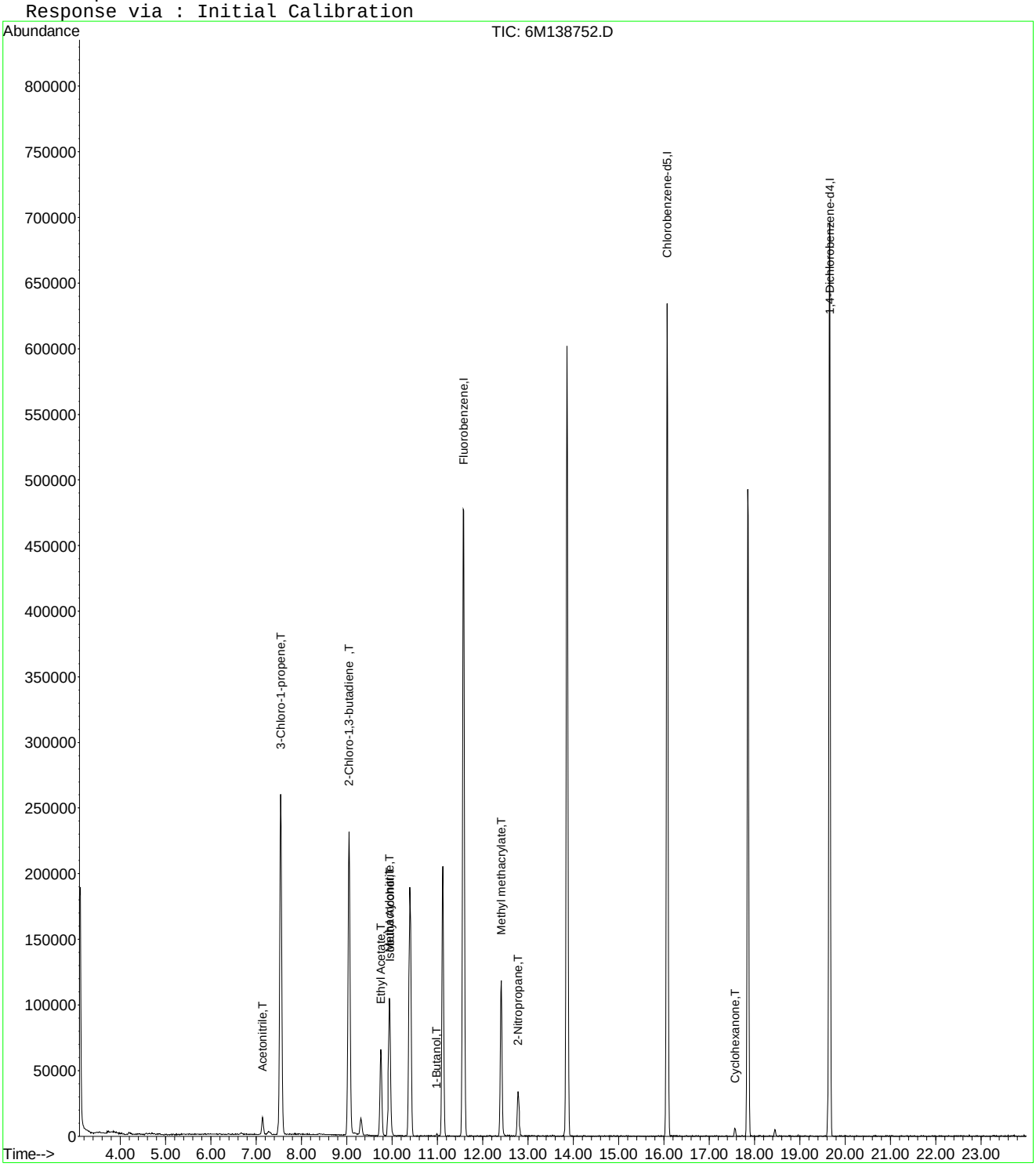
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.58	96	599043	25.00	ug/L		-0.02
11) Chlorobenzene-d5	16.07	117	463005	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	19.66	152	248475	25.00	ug/L		-0.02
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	17741	15.4242	ug/L		95
3) 3-Chloro-1-propene	7.54	41	297686	18.5457	ug/L		93
4) 2-Chloro-1,3-butadiene	9.05	53	242962	17.5823	ug/L		84
5) Ethyl Acetate	9.75	43	124111	19.6403	ug/L		93
6) Methacrylonitrile	9.93	67	42708	17.5719	ug/L	#	59
7) Isobutyl Alcohol	9.95	43	7968	22.9203	ug/L	#	85
8) 1-Butanol	10.98	41	982	6.5662	ug/L	#	52
9) Methyl methacrylate	12.41	41	95824	15.2291	ug/L		81
10) 2-Nitropropane	12.78	43	34207	18.4403	ug/L		92
13) Cyclohexanone	17.57	55	4053	4.7763	ug/L		81

(#) = qualifier out of range (m) = manual integration
6M138752.D A9FOOWT.M Mon Apr 25 15:45:54 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138752.D Vial: 3
Acq On : 24 Apr 2016 17:31 Operator: JDS
Sample : WG566155-03 20ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138752.D Vial: 3
Acq On : 24 Apr 2016 17:31 Operator: JDS
Sample : WG566155-03 20ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:04:58 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

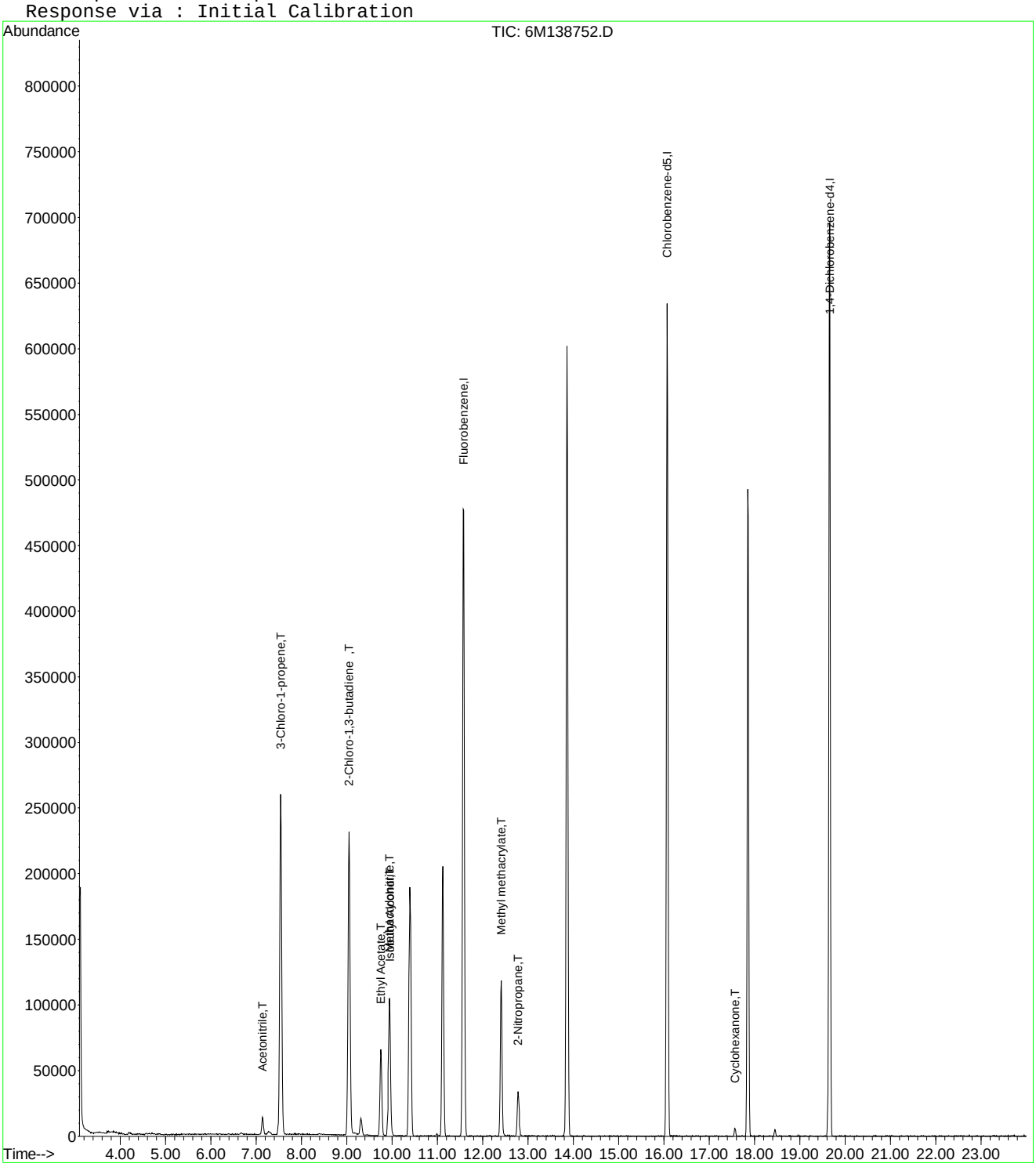
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.58	96	599043	25.00	ug/L		0.00
11) Chlorobenzene-d5	16.07	117	463005	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	19.66	152	248475	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	17741	19.7725	ug/L		95
3) 3-Chloro-1-propene	7.54	41	297686	19.9080	ug/L		93
4) 2-Chloro-1,3-butadiene	9.05	53	242962	18.9362	ug/L		84
5) Ethyl Acetate	9.75	43	124111	19.3209	ug/L		93
6) Methacrylonitrile	9.93	67	42708	19.2846	ug/L	#	59
7) Isobutyl Alcohol	9.95	43	7968	38.9462	ug/L	#	85
9) Methyl methacrylate	12.41	41	95824	17.7480	ug/L		81
10) 2-Nitropropane	12.78	43	34207	17.0355	ug/L		92
13) Cyclohexanone	17.57	55	4053	13.0852	ug/L		81

(#) = qualifier out of range (m) = manual integration
6M138752.D A9FOOWT.M Wed Apr 27 16:04:59 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138752.D Vial: 3
Acq On : 24 Apr 2016 17:31 Operator: JDS
Sample : WG566155-03 20ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:04 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\042416\6M138752.D Vial: 3
Acq On : 24 Apr 2016 17:31 Operator: JDS
Sample : WG566155-03 20ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	20.0000	19.7724	1.1	100	0.00
3	T	3-Chloro-1-propene	20.0000	19.9080	0.5	100	0.00
4	T	2-Chloro-1,3-butadiene	20.0000	18.9362	5.3	100	0.00
5	T	Ethyl Acetate	20.0000	19.3209	3.4	100	0.00
6	T	Methacrylonitrile	20.0000	19.2846	3.6	100	0.00
7	T	Isobutyl Alcohol	40.0000	38.9462	2.6	100	0.00
8	T	1-Butanol	-1.0000	0.0000	0.0	0	0.00
9	T	Methyl methacrylate	20.0000	17.7480	11.3	100	0.00
10	T	2-Nitropropane	-1.0000	17.0355	0.0	100	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	-1.0000	13.0852	0.0	0	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M138752.D A9FOOWT.M Wed Apr 27 16:04:26 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138753.D Vial: 4
Acq On : 24 Apr 2016 18:03 Operator: JDS
Sample : WG566155-04 50ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 09:22:48 2016 Quant Results File: 8260WTR.RES

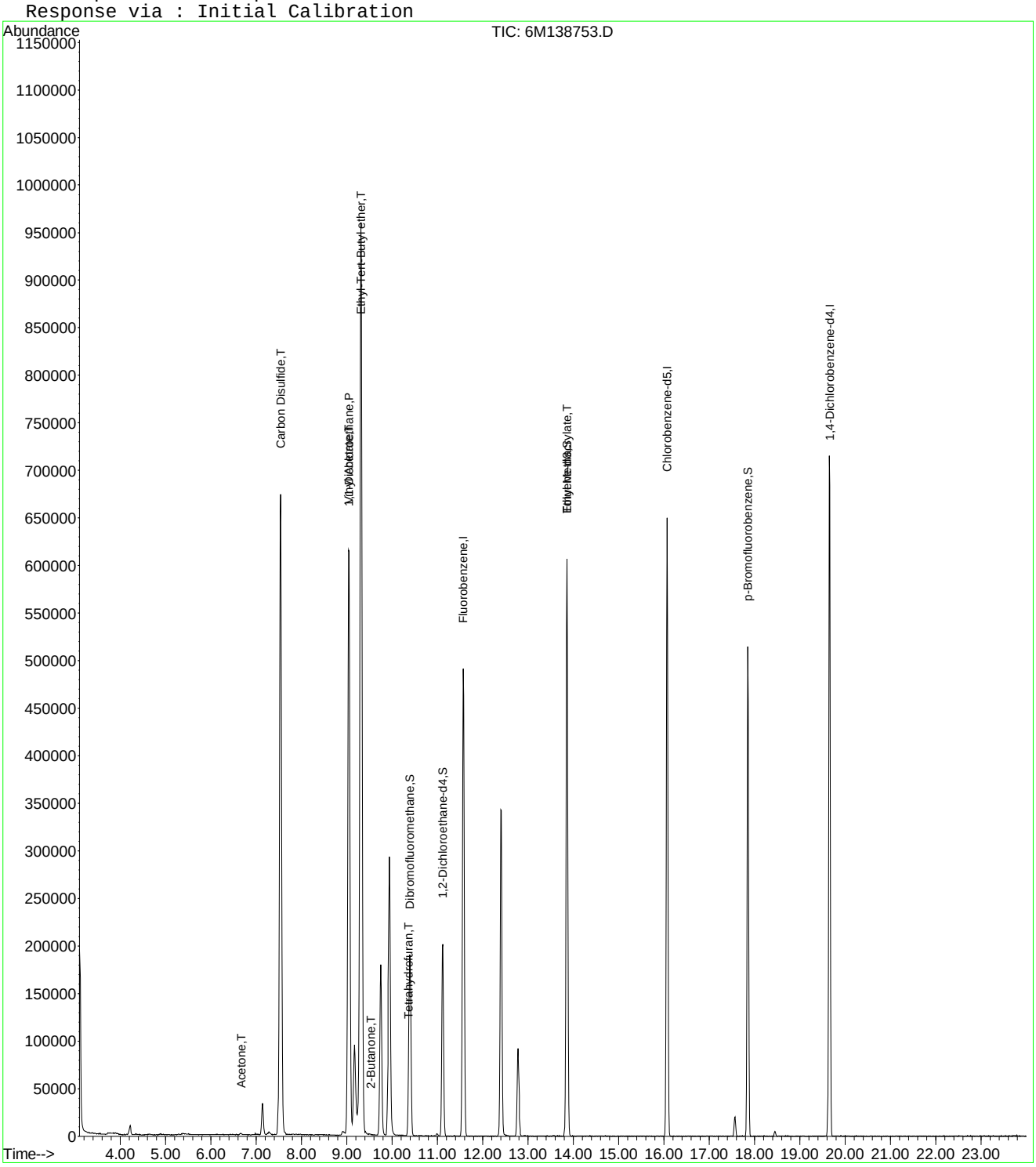
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	604736	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.07	117	468574	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.66	152	254472	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.40	111	172256	27.8132 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 111.24%		
43) 1,2-Dichloroethane-d4	11.12	65	208744	27.7711 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.08%		
58) Toluene-d8	13.86	98	553191	26.2235 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.88%		
80) p-Bromofluorobenzene	17.85	95	239542	28.1954 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 112.80%		
Target Compounds					Qvalue
13) Acetone	6.67	43	3732	1.9901 ug/L #	57
20) Carbon Disulfide	7.54	76	220780	11.4508 ug/L #	36
26) Vinyl Acetate	9.04	43	2704	0.2791 ug/L #	8
27) 1,1-Dichloroethane	9.05	63	9803	0.7652 ug/L #	42
28) Ethyl-Tert-Butyl ether	9.31	59	152978	7.3579 ug/L #	39
29) 2-Butanone	9.53	43	660	0.2385 ug/L #	52
36) Tetrahydrofuran	10.37	42	3746	2.0774 ug/L #	62
60) Ethyl Methacrylate	13.86	69	1423	0.2030 ug/L #	9

(#) = qualifier out of range (m) = manual integration
6M138753.D 8260WTR.M Mon Apr 25 09:22:49 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\042416\6M138753.D Vial: 4
Acq On : 24 Apr 2016 18:03 Operator: JDS
Sample : WG566155-04 50ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 9:22 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138753.D Vial: 4
Acq On : 24 Apr 2016 18:03 Operator: JDS
Sample : WG566155-04 50ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45:55 2016 Quant Results File: A9FOOWT.RES

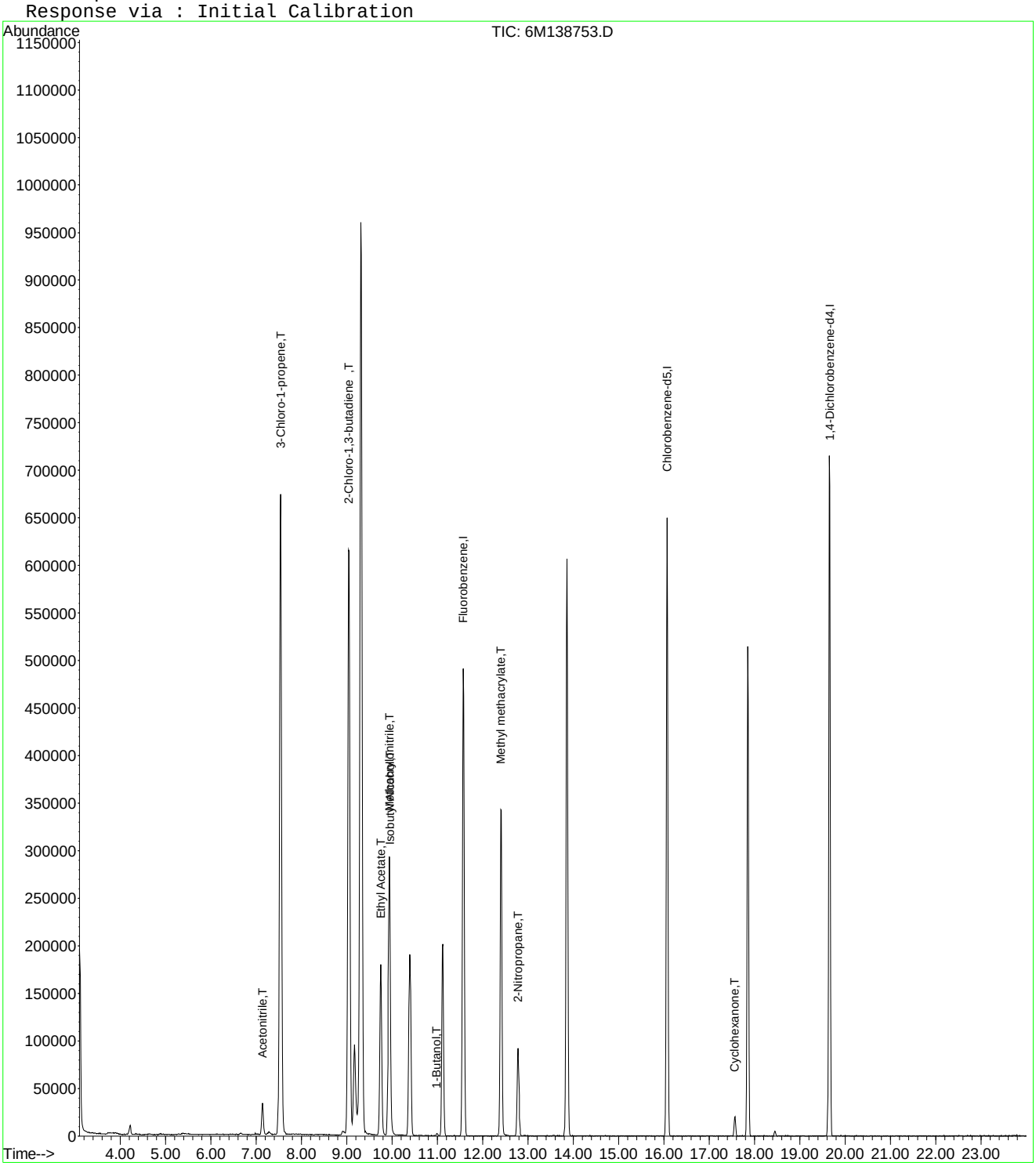
Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	604736	25.00	ug/L		-0.03
11) Chlorobenzene-d5	16.07	117	468574	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	19.66	152	254472	25.00	ug/L		-0.02
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	46802	40.3072	ug/L		94
3) 3-Chloro-1-propene	7.54	41	793114	48.9454	ug/L		93
4) 2-Chloro-1,3-butadiene	9.04	53	674471	48.3496	ug/L		83
5) Ethyl Acetate	9.75	43	336975	52.8234	ug/L		93
6) Methacrylonitrile	9.94	67	119267	48.6097	ug/L	#	62
7) Isobutyl Alcohol	9.95	43	20135	57.3741	ug/L	#	99
8) 1-Butanol	10.98	41	1474	9.7632	ug/L		77
9) Methyl methacrylate	12.40	41	279157	43.9482	ug/L		81
10) 2-Nitropropane	12.79	43	95327	50.9052	ug/L		94
13) Cyclohexanone	17.56	55	13241	15.2363	ug/L		91

(#) = qualifier out of range (m) = manual integration
6M138753.D A9FOOWT.M Mon Apr 25 15:45:56 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\042416\6M138753.D Vial: 4
Acq On : 24 Apr 2016 18:03 Operator: JDS
Sample : WG566155-04 50ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138753.D Vial: 4
Acq On : 24 Apr 2016 18:03 Operator: JDS
Sample : WG566155-04 50ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:04:59 2016 Quant Results File: A9FOOWT.RES

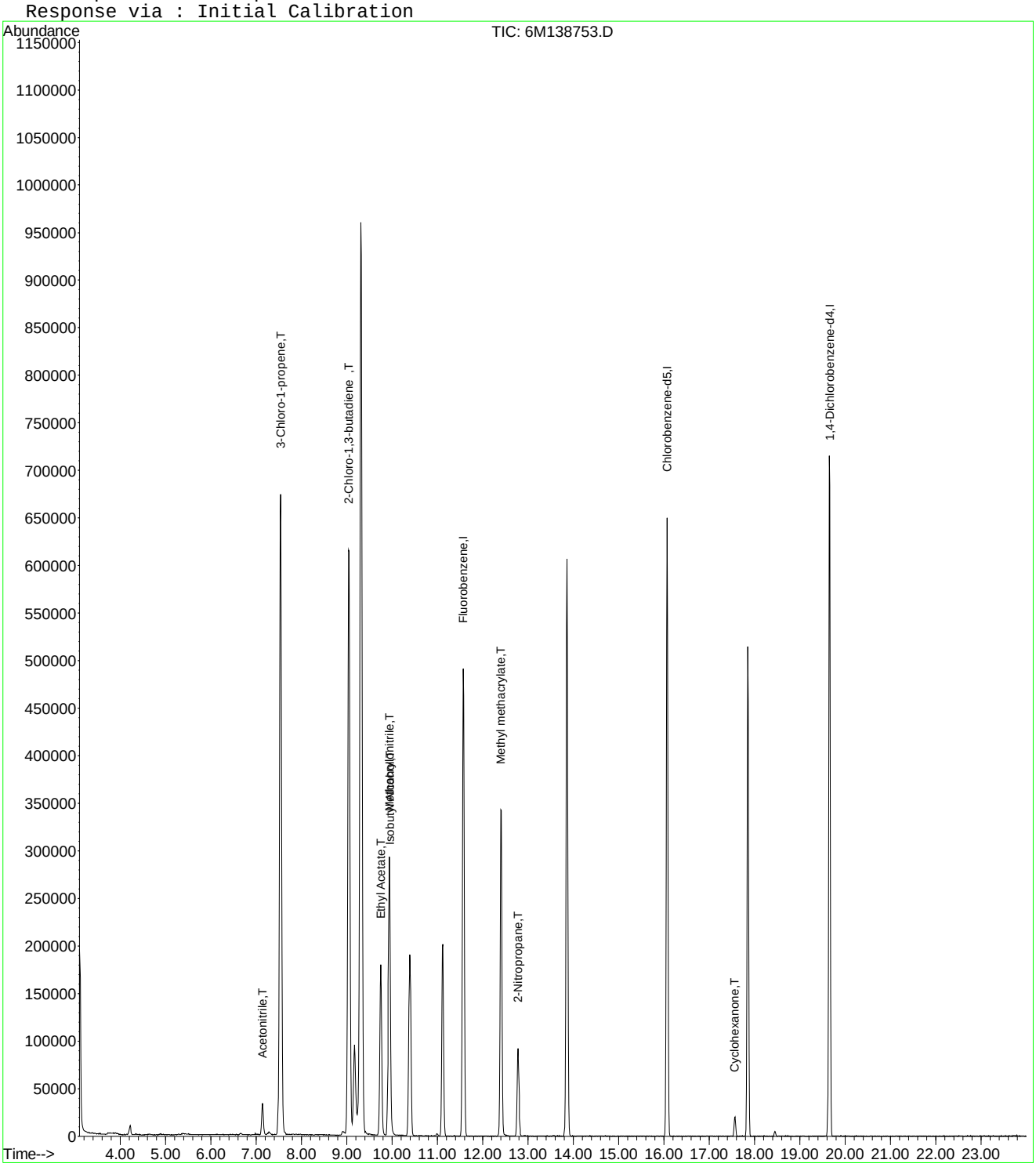
Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	604736	25.00	ug/L		0.00
11) Chlorobenzene-d5	16.07	117	468574	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	19.66	152	254472	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	46802	51.6701	ug/L		94
3) 3-Chloro-1-propene	7.54	41	793114	52.5409	ug/L		93
4) 2-Chloro-1,3-butadiene	9.04	53	674471	52.0726	ug/L		83
5) Ethyl Acetate	9.75	43	336975	51.9646	ug/L		93
6) Methacrylonitrile	9.94	67	119267	53.3476	ug/L	#	62
7) Isobutyl Alcohol	9.95	43	20135	97.4900	ug/L	#	99
9) Methyl methacrylate	12.40	41	279157	51.2171	ug/L		81
10) 2-Nitropropane	12.79	43	95327	47.0270	ug/L		94
13) Cyclohexanone	17.56	55	13241	41.7415	ug/L		91

(#) = qualifier out of range (m) = manual integration
6M138753.D A9FOOWT.M Wed Apr 27 16:04:59 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\042416\6M138753.D Vial: 4
Acq On : 24 Apr 2016 18:03 Operator: JDS
Sample : WG566155-04 50ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:04 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\042416\6M138753.D Vial: 4
Acq On : 24 Apr 2016 18:03 Operator: JDS
Sample : WG566155-04 50ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	50.0000	51.6701	-3.3	100	0.00
3	T	3-Chloro-1-propene	50.0000	52.5409	-5.1	100	0.00
4	T	2-Chloro-1,3-butadiene	50.0000	52.0726	-4.1	100	0.00
5	T	Ethyl Acetate	50.0000	51.9646	-3.9	100	0.00
6	T	Methacrylonitrile	50.0000	53.3476	-6.7	100	0.00
7	T	Isobutyl Alcohol	100.0000	97.4900	2.5	100	0.00
8	T	1-Butanol	-1.0000	0.0000	0.0	0	0.00
9	T	Methyl methacrylate	50.0000	51.2171	-2.4	100	0.00
10	T	2-Nitropropane	50.0000	47.0270	5.9	100	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	50.0000	41.7415	16.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M138753.D A9FOOWT.M Wed Apr 27 16:04:38 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\042416\6M138754.D Vial: 5
Acq On : 24 Apr 2016 18:36 Operator: JDS
Sample : WG566155-05 100ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 09:22:49 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

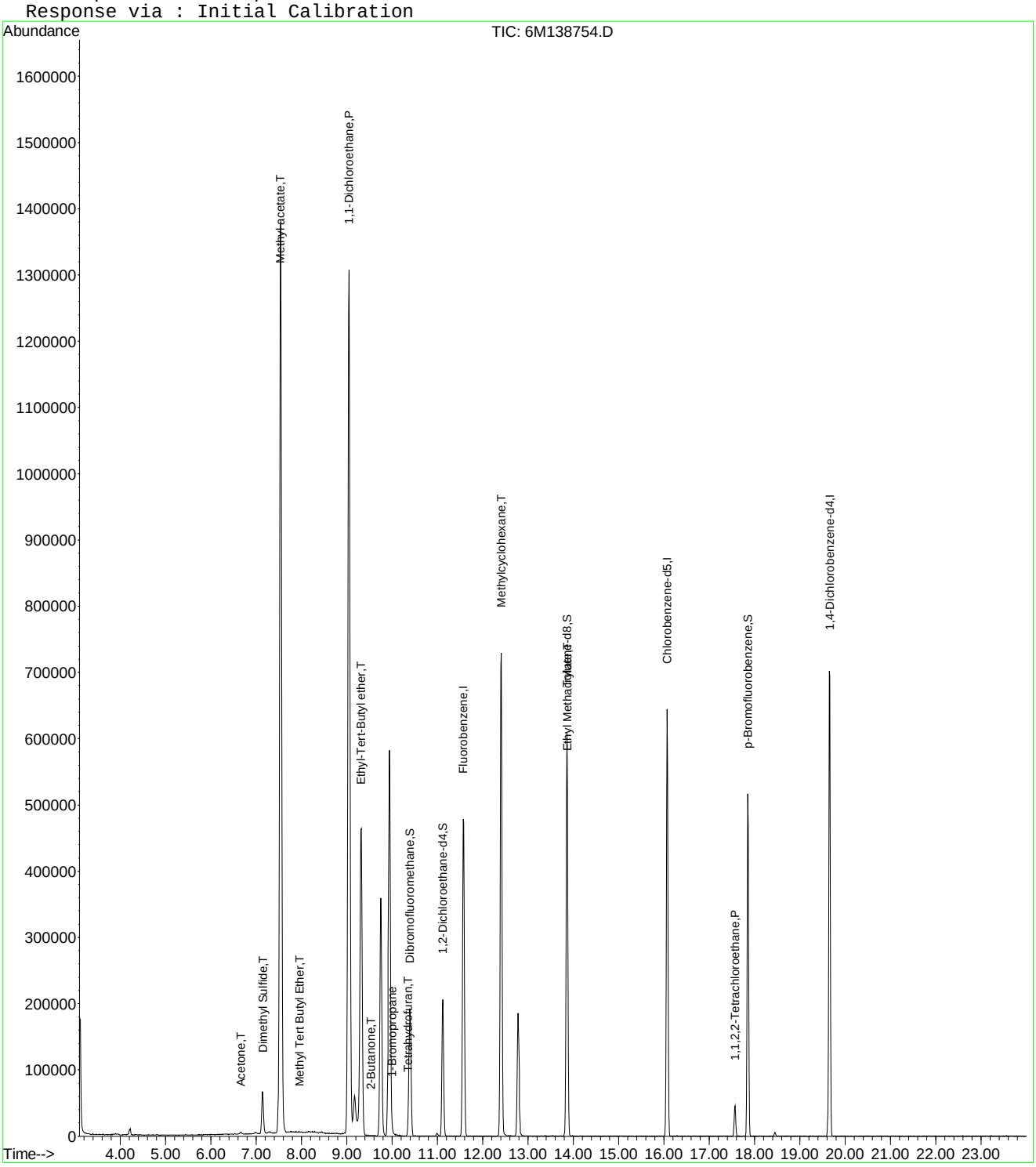
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.57	96	599121	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.07	117	467316	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.66	152	255798	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.39	111	169577	27.6373	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 110.56%			
43) 1,2-Dichloroethane-d4	11.12	65	210119	28.2161	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 112.88%			
58) Toluene-d8	13.86	98	550953	26.1877	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.76%			
80) p-Bromofluorobenzene	17.85	95	239480	28.0420	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 112.16%			
Target Compounds						Qvalue
13) Acetone	6.66	43	6960	3.7463	ug/L	82
16) Dimethyl Sulfide	7.15	62	732	0.1448	ug/L #	1
18) Methyl acetate	7.53	43	1419	0.2750	ug/L #	1
22) Methyl Tert Butyl Ether	7.96	73	2141	0.1320	ug/L #	72
27) 1,1-Dichloroethane	9.05	63	20725	1.6328	ug/L #	42
28) Ethyl-Tert-Butyl ether	9.31	59	76666	3.7220	ug/L #	39
29) 2-Butanone	9.53	43	1176	0.4289	ug/L #	52
34) 1-Bromopropane	10.00	122	702	0.6817	ug/L #	1
36) Tetrahydrofuran	10.35	42	4425	2.4769	ug/L #	60
48) Methylcyclohexane	12.41	83	1461	0.1681	ug/L #	1
60) Ethyl Methacrylate	13.87	69	1083	0.1549	ug/L #	1
79) 1,1,2,2-Tetrachloroethane	17.57	83	1910	0.3066	ug/L #	18

(#) = qualifier out of range (m) = manual integration
6M138754.D 8260WTR.M Mon Apr 25 09:22:49 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138754.D Vial: 5
Acq On : 24 Apr 2016 18:36 Operator: JDS
Sample : WG566155-05 100ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 9:22 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138754.D Vial: 5
Acq On : 24 Apr 2016 18:36 Operator: JDS
Sample : WG566155-05 100ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45:57 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

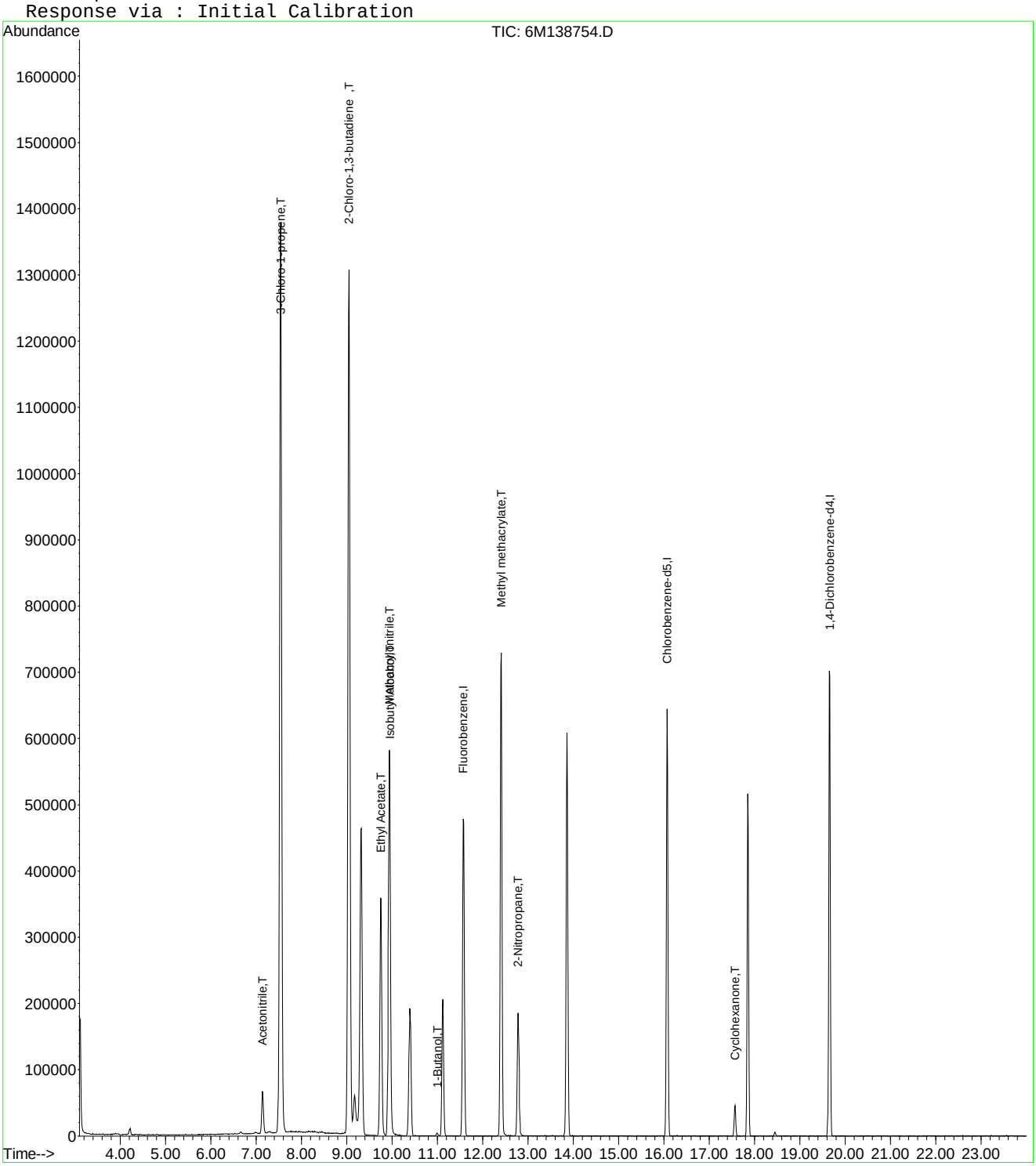
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	599121	25.00	ug/L		-0.03
11) Chlorobenzene-d5	16.07	117	467316	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	19.66	152	255798	25.00	ug/L		-0.02
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	90880	79.0019	ug/L		95
3) 3-Chloro-1-propene	7.54	41	1610716	100.3335	ug/L		93
4) 2-Chloro-1,3-butadiene	9.05	53	1413663	102.2884	ug/L		83
5) Ethyl Acetate	9.75	43	673221	106.5217	ug/L		93
6) Methacrylonitrile	9.94	67	237219	97.5895	ug/L	#	62
7) Isobutyl Alcohol	9.95	43	33897	97.4937	ug/L	#	85
8) 1-Butanol	11.00	41	2978	19.9099	ug/L	#	64
9) Methyl methacrylate	12.41	41	585839	93.0942	ug/L		80
10) 2-Nitropropane	12.78	43	197598	106.5074	ug/L		97
13) Cyclohexanone	17.57	55	27547	31.5338	ug/L		88

(#) = qualifier out of range (m) = manual integration
6M138754.D A9FOOWT.M Mon Apr 25 15:45:57 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138754.D Vial: 5
Acq On : 24 Apr 2016 18:36 Operator: JDS
Sample : WG566155-05 100ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration



6M138754.D A9FOOWT.M Mon Apr 25 15:45:58 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138754.D Vial: 5
Acq On : 24 Apr 2016 18:36 Operator: JDS
Sample : WG566155-05 100ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:04:59 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

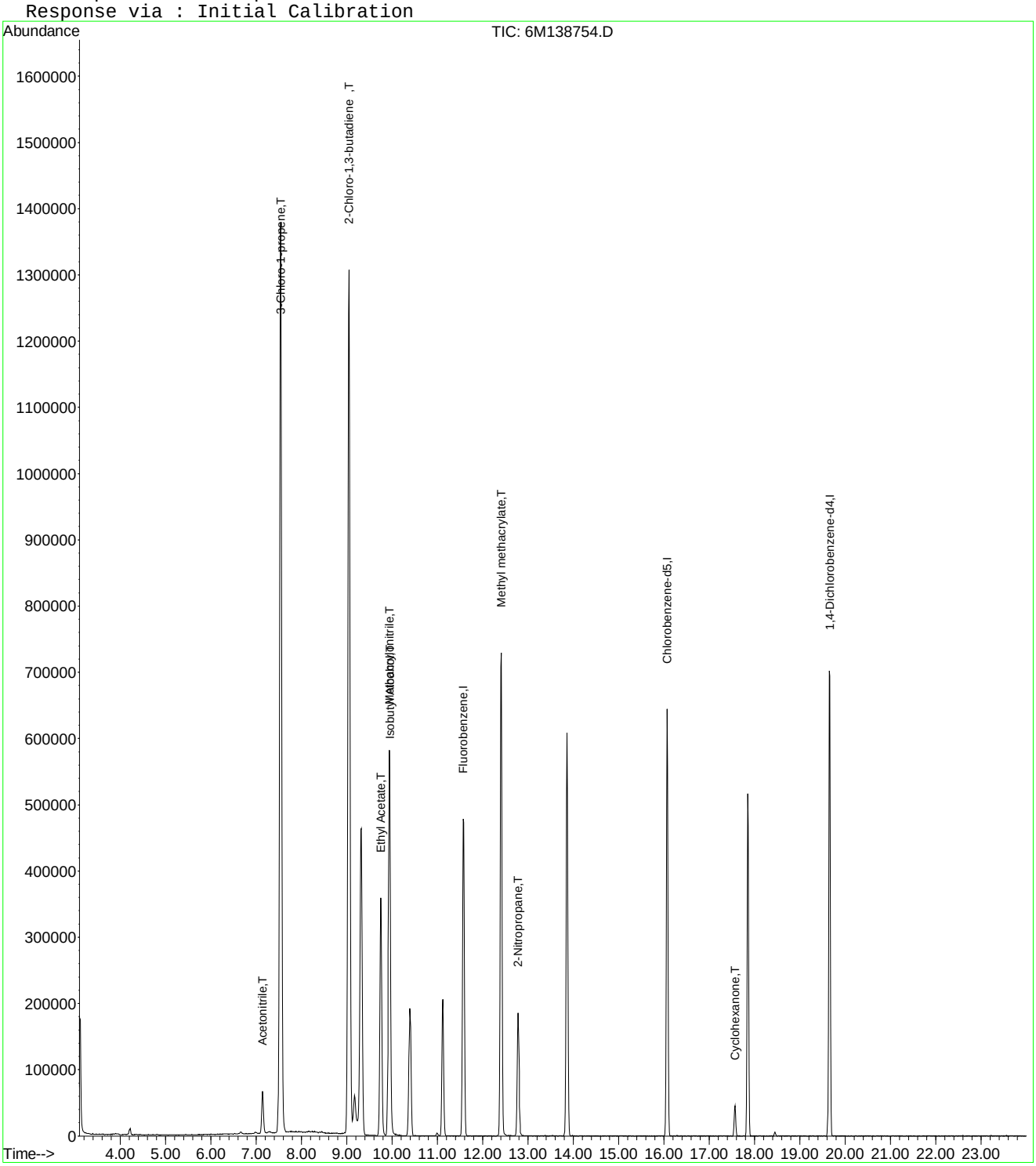
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	599121	25.00	ug/L		0.00
11) Chlorobenzene-d5	16.07	117	467316	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	19.66	152	255798	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	90880	101.2731	ug/L		95
3) 3-Chloro-1-propene	7.54	41	1610716	107.7041	ug/L		93
4) 2-Chloro-1,3-butadiene	9.05	53	1413663	110.1648	ug/L		83
5) Ethyl Acetate	9.75	43	673221	104.7898	ug/L		93
6) Methacrylonitrile	9.94	67	237219	107.1014	ug/L	#	62
7) Isobutyl Alcohol	9.95	43	33897	165.6613	ug/L	#	85
9) Methyl methacrylate	12.41	41	585839	108.4917	ug/L		80
10) 2-Nitropropane	12.78	43	197598	98.3932	ug/L		97
13) Cyclohexanone	17.57	55	27547	86.3902	ug/L		88

(#) = qualifier out of range (m) = manual integration
6M138754.D A9FOOWT.M Wed Apr 27 16:04:59 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138754.D Vial: 5
Acq On : 24 Apr 2016 18:36 Operator: JDS
Sample : WG566155-05 100ug/L STD 826-A Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:04 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\042416\6M138755.D Vial: 6
Acq On : 24 Apr 2016 19:08 Operator: JDS
Sample : WG566155-06 200ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 09:22:50 2016 Quant Results File: 8260WTR.RES

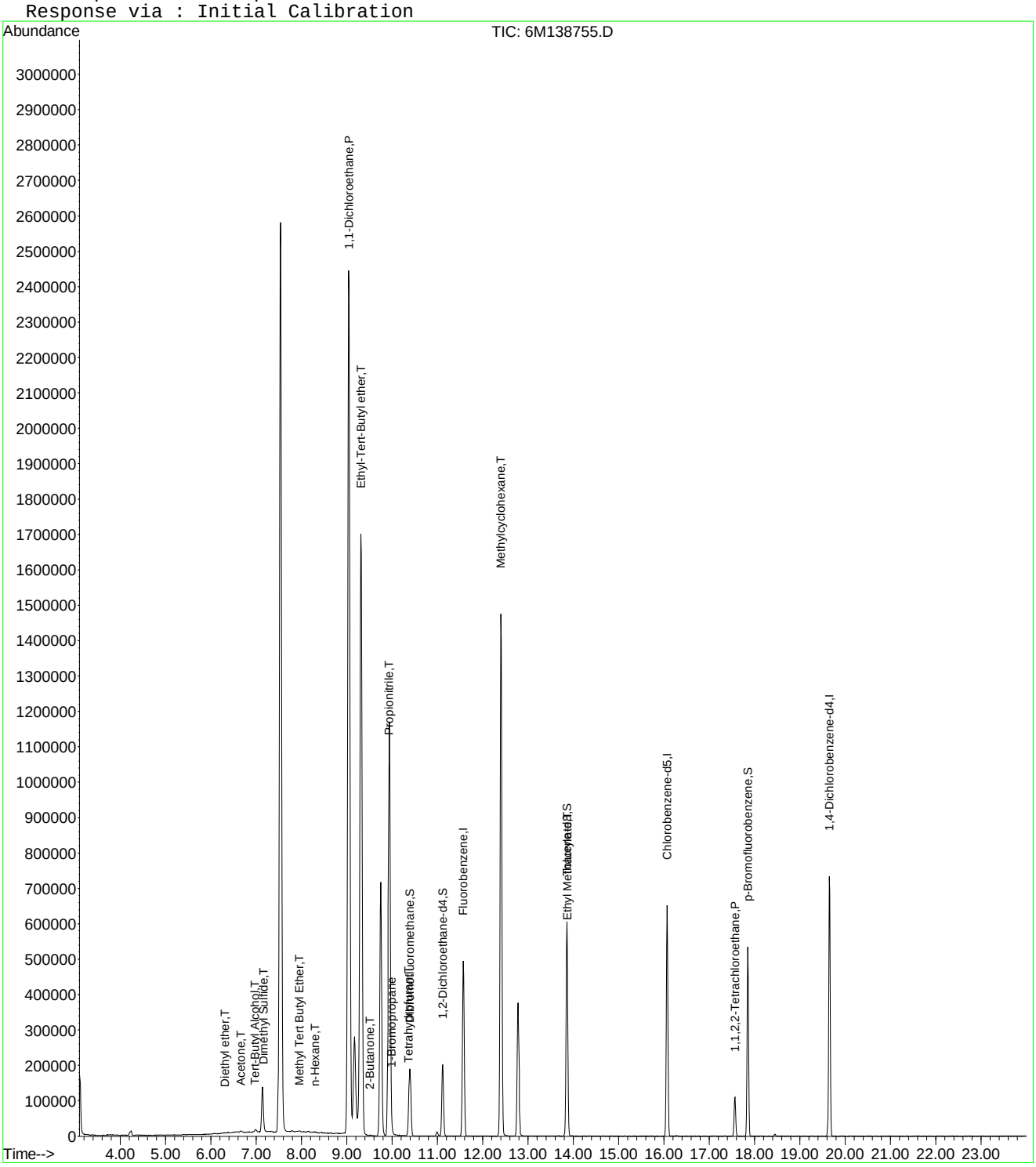
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.57	96	607157	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.07	117	473187	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	259046	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.40	111	172341	27.7160	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 110.88%			
43) 1,2-Dichloroethane-d4	11.12	65	211249	27.9923	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.96%			
58) Toluene-d8	13.86	98	552831	25.9510	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.80%			
80) p-Bromofluorobenzene	17.85	95	247709	28.6419	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 114.56%			
Target Compounds						Qvalue
9) Diethyl ether	6.31	59	653	0.1225	ug/L #	12
13) Acetone	6.66	43	9406	4.9959	ug/L #	64
15) Tert-Butyl Alcohol	6.98	59	449	0.8301	ug/L #	1
16) Dimethyl Sulfide	7.16	62	680	0.1328	ug/L #	1
22) Methyl Tert Butyl Ether	7.96	73	3926	0.2388	ug/L	83
24) n-Hexane	8.30	57	1777	0.2040	ug/L	87
27) 1,1-Dichloroethane	9.05	63	41640	3.2372	ug/L #	47
28) Ethyl-Tert-Butyl ether	9.31	59	272648	13.0615	ug/L #	38
29) 2-Butanone	9.51	43	2992	1.0767	ug/L #	67
30) Propionitrile	9.93	54	258	0.3232	ug/L #	57
34) 1-Bromopropane	9.99	122	1417	1.3579	ug/L #	1
36) Tetrahydrofuran	10.37	42	4839	2.6728	ug/L #	62
48) Methylcyclohexane	12.40	83	2976	0.3378	ug/L #	1
60) Ethyl Methacrylate	13.87	69	1202	0.1698	ug/L #	1
79) 1,1,2,2-Tetrachloroethane	17.57	83	5192	0.8231	ug/L #	18

(#) = qualifier out of range (m) = manual integration
6M138755.D 8260WTR.M Mon Apr 25 09:22:50 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\042416\6M138755.D Vial: 6
Acq On : 24 Apr 2016 19:08 Operator: JDS
Sample : WG566155-06 200ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 9:22 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138755.D Vial: 6
Acq On : 24 Apr 2016 19:08 Operator: JDS
Sample : WG566155-06 200ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45:58 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

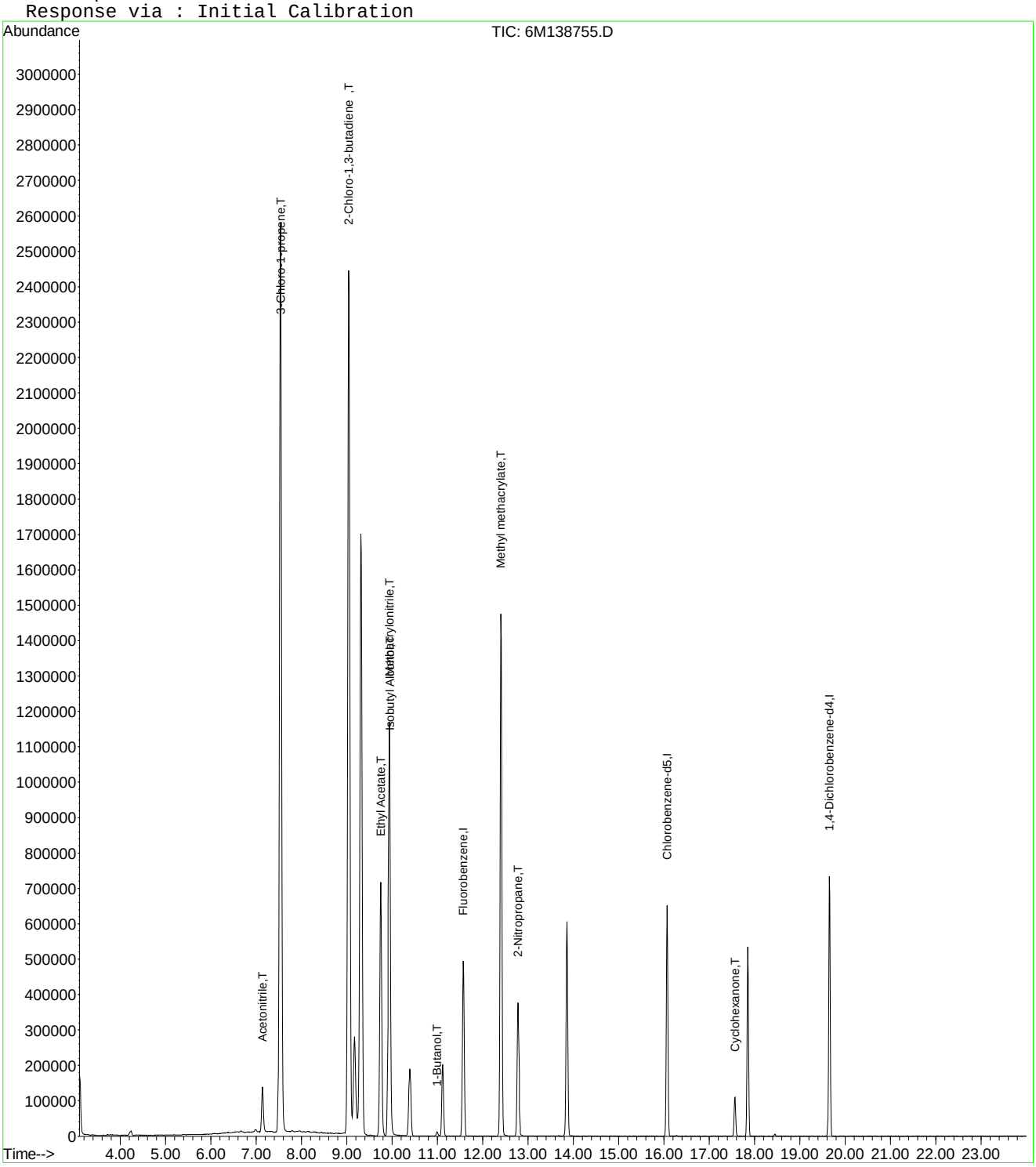
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	607157	25.00	ug/L		-0.03
11) Chlorobenzene-d5	16.07	117	473187	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	19.65	152	259046	25.00	ug/L		-0.03
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	183628	157.5150	ug/L		93
3) 3-Chloro-1-propene	7.54	41	3085939	189.6828	ug/L		93
4) 2-Chloro-1,3-butadiene	9.04	53	2709180	193.4336	ug/L		83
5) Ethyl Acetate	9.75	43	1346541	210.2391	ug/L		94
6) Methacrylonitrile	9.94	67	471538	191.4186	ug/L	#	64
7) Isobutyl Alcohol	9.95	43	72755	206.4864	ug/L	#	92
8) 1-Butanol	10.99	41	8815	58.1542	ug/L	#	64
9) Methyl methacrylate	12.40	41	1186381	186.0295	ug/L		80
10) 2-Nitropropane	12.79	43	410702	218.4428	ug/L		99
13) Cyclohexanone	17.57	55	67080	75.8254	ug/L		87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138755.D Vial: 6
Acq On : 24 Apr 2016 19:08 Operator: JDS
Sample : WG566155-06 200ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138755.D Vial: 6
Acq On : 24 Apr 2016 19:08 Operator: JDS
Sample : WG566155-06 200ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:05:00 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

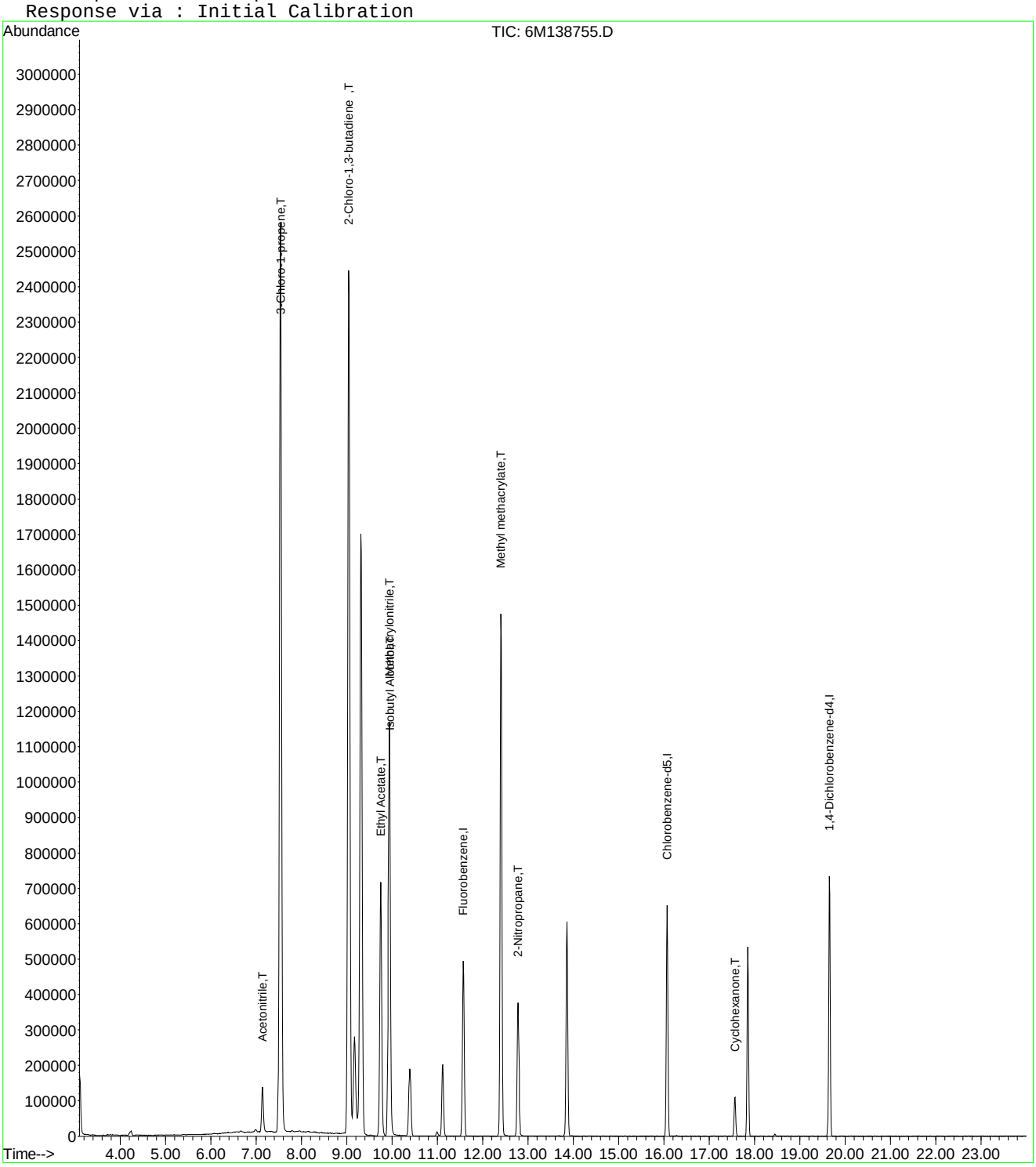
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	607157	25.00	ug/L		0.00
11) Chlorobenzene-d5	16.07	117	473187	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	19.65	152	259046	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	183628	201.9195	ug/L		93
3) 3-Chloro-1-propene	7.54	41	3085939	203.6170	ug/L		93
4) 2-Chloro-1,3-butadiene	9.04	53	2709180	208.3284	ug/L		83
5) Ethyl Acetate	9.75	43	1346541	206.8209	ug/L		94
6) Methacrylonitrile	9.94	67	471538	210.0757	ug/L	#	64
7) Isobutyl Alcohol	9.95	43	72755	350.8618	ug/L	#	92
9) Methyl methacrylate	12.40	41	1186381	216.7982	ug/L		80
10) 2-Nitropropane	12.79	43	410702	201.8008	ug/L		99
13) Cyclohexanone	17.57	55	67080	207.7320	ug/L		87

(#) = qualifier out of range (m) = manual integration
6M138755.D A9FOOWT.M Wed Apr 27 16:05:00 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138755.D Vial: 6
Acq On : 24 Apr 2016 19:08 Operator: JDS
Sample : WG566155-06 200ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:05 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138756.D Vial: 7
Acq On : 24 Apr 2016 19:40 Operator: JDS
Sample : WG566155-07 300ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 09:22:50 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

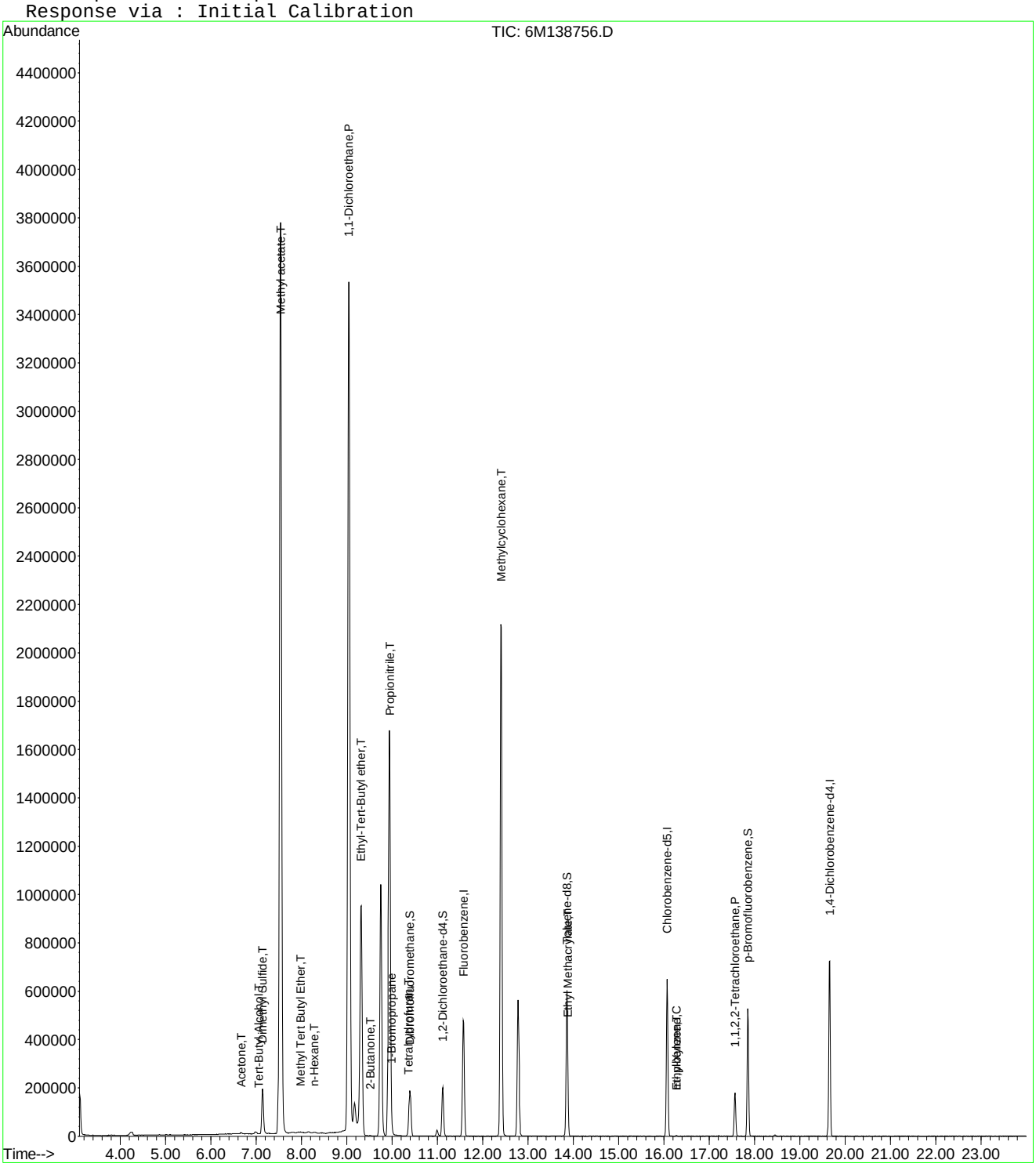
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.58	96	602356	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.07	117	472685	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.66	152	264650	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.39	111	169983	27.5546 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 110.20%		
43) 1,2-Dichloroethane-d4	11.12	65	207199	27.6745 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 110.68%		
58) Toluene-d8	13.86	98	553023	25.9875 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.96%		
80) p-Bromofluorobenzene	17.85	95	247939	28.0615 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 112.24%		
Target Compounds					Qvalue
13) Acetone	6.67	43	13666	7.3164 ug/L #	77
15) Tert-Butyl Alcohol	7.06	59	467	0.8703 ug/L #	59
16) Dimethyl Sulfide	7.14	62	668	0.1315 ug/L #	1
18) Methyl acetate	7.54	43	3262	0.6289 ug/L #	1
22) Methyl Tert Butyl Ether	7.97	73	10591	0.6492 ug/L #	53
24) n-Hexane	8.28	57	3576	0.4138 ug/L #	56
27) 1,1-Dichloroethane	9.04	63	60743	4.7600 ug/L #	48
28) Ethyl-Tert-Butyl ether	9.31	59	155796	7.5231 ug/L #	39
29) 2-Butanone	9.52	43	4002	1.4516 ug/L	97
30) Propionitrile	9.95	54	1113	1.4052 ug/L #	1
34) 1-Bromopropane	9.99	122	1450	1.4006 ug/L #	1
36) Tetrahydrofuran	10.36	42	4902	2.7292 ug/L #	61
48) Methylcyclohexane	12.41	83	4626	0.5293 ug/L #	1
60) Ethyl Methacrylate	13.88	69	1599	0.2261 ug/L #	1
72) Ethylbenzene	16.28	106	1349	0.1427 ug/L	56
73) m-,p-Xylene	16.28	106	1349	0.1203 ug/L	81
79) 1,1,2,2-Tetrachloroethane	17.57	83	8744	1.3569 ug/L #	18

(#) = qualifier out of range (m) = manual integration
6M138756.D 8260WTR.M Mon Apr 25 09:22:51 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138756.D Vial: 7
Acq On : 24 Apr 2016 19:40 Operator: JDS
Sample : WG566155-07 300ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 9:22 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138756.D Vial: 7
Acq On : 24 Apr 2016 19:40 Operator: JDS
Sample : WG566155-07 300ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45:59 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

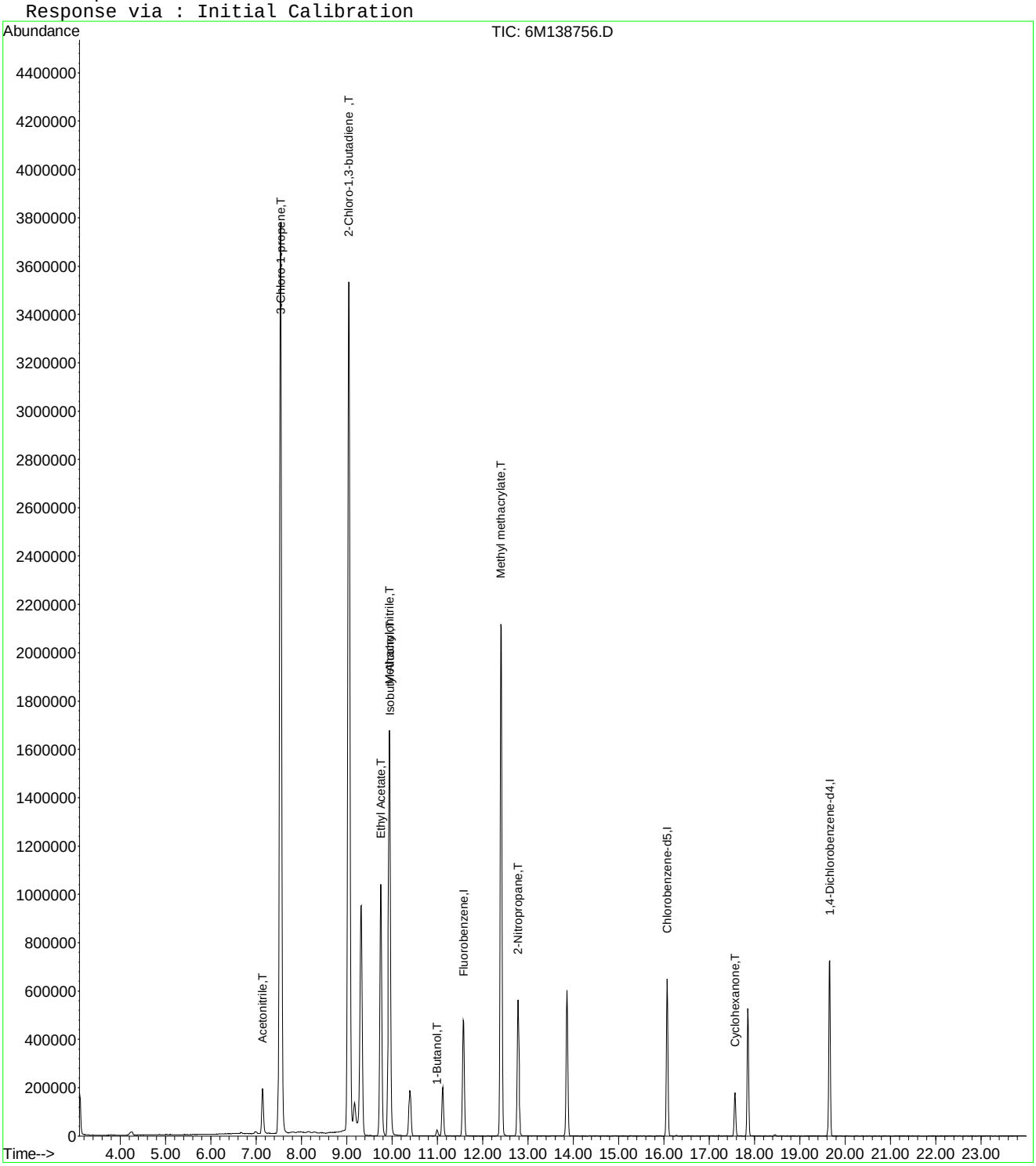
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.58	96	602356	25.00	ug/L		-0.02
11) Chlorobenzene-d5	16.07	117	472685	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	19.66	152	264650	25.00	ug/L		-0.02
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	273003	236.0468	ug/L		93
3) 3-Chloro-1-propene	7.54	41	4493022	278.3729	ug/L		93
4) 2-Chloro-1,3-butadiene	9.04	53	3994938	287.5093	ug/L		83
5) Ethyl Acetate	9.75	43	1967613	309.6573	ug/L		94
6) Methacrylonitrile	9.94	67	686612	280.9484	ug/L	#	63
7) Isobutyl Alcohol	9.95	43	121480	347.5212	ug/L	#	90
8) 1-Butanol	10.99	41	18116	120.4672	ug/L		69
9) Methyl methacrylate	12.40	41	1742413	275.3954	ug/L		81
10) 2-Nitropropane	12.78	43	613081	328.6824	ug/L		99
13) Cyclohexanone	17.57	55	106618	117.9661	ug/L		87

(#) = qualifier out of range (m) = manual integration
6M138756.D A9FOOWT.M Mon Apr 25 15:45:59 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138756.D Vial: 7
Acq On : 24 Apr 2016 19:40 Operator: JDS
Sample : WG566155-07 300ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:45 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138756.D Vial: 7
Acq On : 24 Apr 2016 19:40 Operator: JDS
Sample : WG566155-07 300ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:05:00 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

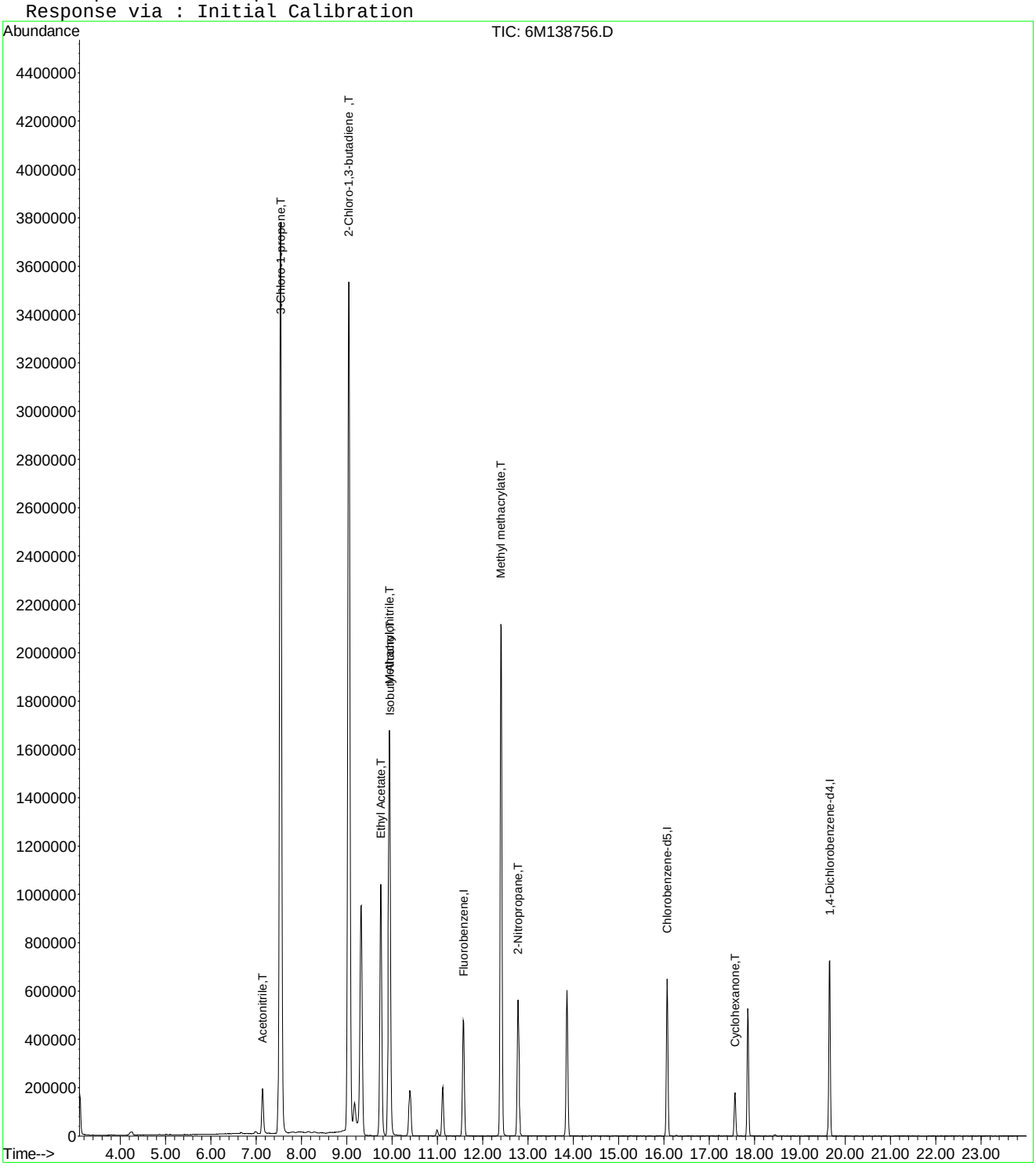
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.58	96	602356	25.00	ug/L		0.01
11) Chlorobenzene-d5	16.07	117	472685	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	19.66	152	264650	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	273003	302.5900	ug/L		93
3) 3-Chloro-1-propene	7.54	41	4493022	298.8224	ug/L		93
4) 2-Chloro-1,3-butadiene	9.04	53	3994938	309.6481	ug/L		83
5) Ethyl Acetate	9.75	43	1967613	304.6228	ug/L		94
6) Methacrylonitrile	9.94	67	686612	308.3318	ug/L	#	63
7) Isobutyl Alcohol	9.95	43	121480	590.5081	ug/L	#	90
9) Methyl methacrylate	12.40	41	1742413	320.9449	ug/L		81
10) 2-Nitropropane	12.78	43	613081	303.6419	ug/L		99
13) Cyclohexanone	17.57	55	106618	323.1811	ug/L		87

(#) = qualifier out of range (m) = manual integration
6M138756.D A9FOOWT.M Wed Apr 27 16:05:00 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138756.D Vial: 7
Acq On : 24 Apr 2016 19:40 Operator: JDS
Sample : WG566155-07 300ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:05 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138757.D Vial: 8
Acq On : 24 Apr 2016 20:12 Operator: JDS
Sample : WG566155-08 400ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 09:22:51 2016 Quant Results File: 8260WTR.RES

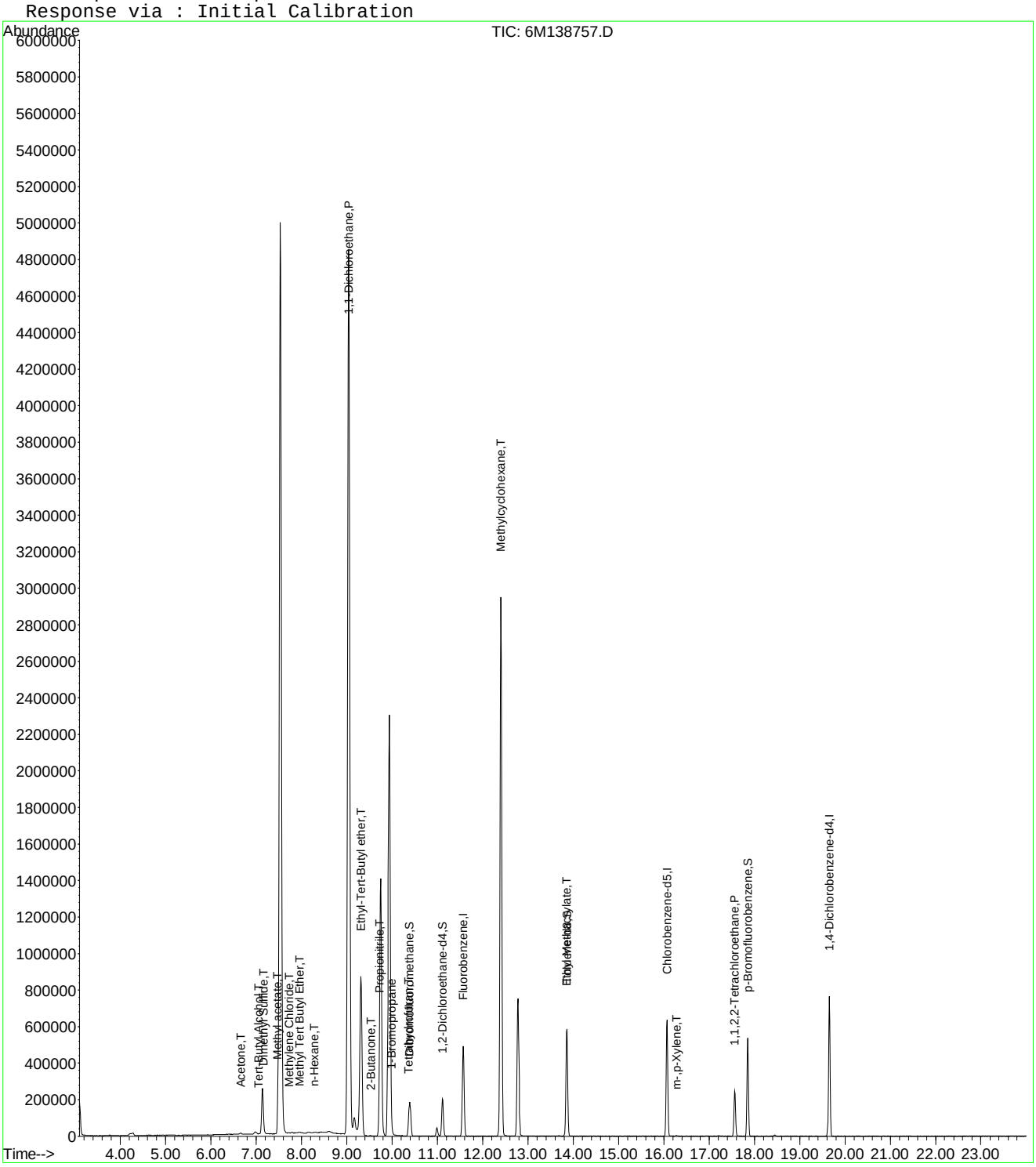
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.57	96	602625	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.08	117	475117	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	264739	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.39	111	170708	27.6598	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 110.64%			
43) 1,2-Dichloroethane-d4	11.11	65	208757	27.8702	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.48%			
58) Toluene-d8	13.86	98	554316	25.9150	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.64%			
80) p-Bromofluorobenzene	17.85	95	246698	27.9116	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 111.64%			
Target Compounds						Qvalue
13) Acetone	6.66	43	14063	7.5256	ug/L	99
15) Tert-Butyl Alcohol	7.05	59	807	1.5033	ug/L #	59
16) Dimethyl Sulfide	7.16	62	1034	0.2034	ug/L #	1
18) Methyl acetate	7.48	43	1103	0.2125	ug/L #	60
19) Methylene Chloride	7.73	84	1123	0.1699	ug/L #	40
22) Methyl Tert Butyl Ether	7.97	73	18318	1.1224	ug/L #	53
24) n-Hexane	8.28	57	5609	0.6488	ug/L	75
27) 1,1-Dichloroethane	9.04	63	82912	6.4943	ug/L #	48
28) Ethyl-Tert-Butyl ether	9.32	59	139043	6.7111	ug/L #	38
29) 2-Butanone	9.53	43	4129	1.4970	ug/L	86
30) Propionitrile	9.72	54	202	0.2549	ug/L #	1
34) 1-Bromopropane	9.99	122	1978	1.9098	ug/L #	1
36) Tetrahydrofuran	10.37	42	5444	3.0296	ug/L #	63
48) Methylcyclohexane	12.40	83	6593	0.7540	ug/L #	1
60) Ethyl Methacrylate	13.85	69	1165	0.1639	ug/L #	1
73) m-,p-Xylene	16.28	106	1795	0.1593	ug/L	72
79) 1,1,2,2-Tetrachloroethane	17.57	83	12875	1.9973	ug/L #	18

(#) = qualifier out of range (m) = manual integration
6M138757.D 8260WTR.M Mon Apr 25 09:22:51 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\042416\6M138757.D Vial: 8
Acq On : 24 Apr 2016 20:12 Operator: JDS
Sample : WG566155-08 400ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 9:22 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138757.D Vial: 8
Acq On : 24 Apr 2016 20:12 Operator: JDS
Sample : WG566155-08 400ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:46:00 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

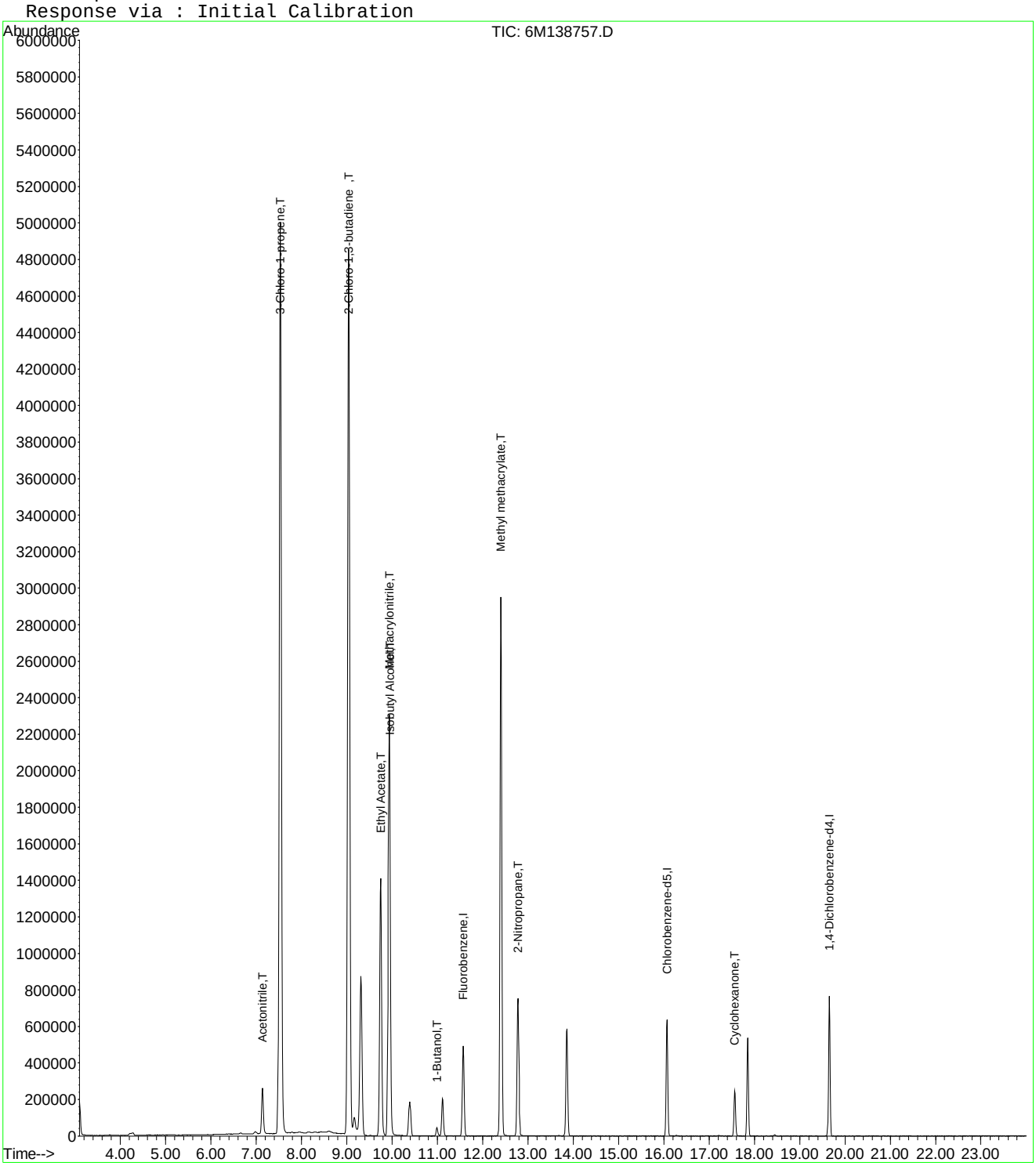
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	602625	25.00	ug/L		-0.03
11) Chlorobenzene-d5	16.08	117	475117	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	19.65	152	264739	25.00	ug/L		-0.03
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	368012	318.0524	ug/L		93
3) 3-Chloro-1-propene	7.53	41	5948883	368.4088	ug/L		94
4) 2-Chloro-1,3-butadiene	9.04	53	5359203	385.5211	ug/L		83
5) Ethyl Acetate	9.76	43	2690267	423.1975	ug/L		94
6) Methacrylonitrile	9.94	67	929265	380.0675	ug/L	#	62
7) Isobutyl Alcohol	9.95	43	192560	550.6158	ug/L	#	89
8) 1-Butanol	10.99	41	29815	198.1744	ug/L		75
9) Methyl methacrylate	12.40	41	2375132	375.2316	ug/L		81
10) 2-Nitropropane	12.79	43	849210	455.0717	ug/L		98
13) Cyclohexanone	17.57	55	149420	165.2683	ug/L		87

(#) = qualifier out of range (m) = manual integration
6M138757.D A9FOOWT.M Mon Apr 25 15:46:00 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138757.D Vial: 8
Acq On : 24 Apr 2016 20:12 Operator: JDS
Sample : WG566155-08 400ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:46 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138757.D Vial: 8
Acq On : 24 Apr 2016 20:12 Operator: JDS
Sample : WG566155-08 400ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:05:01 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

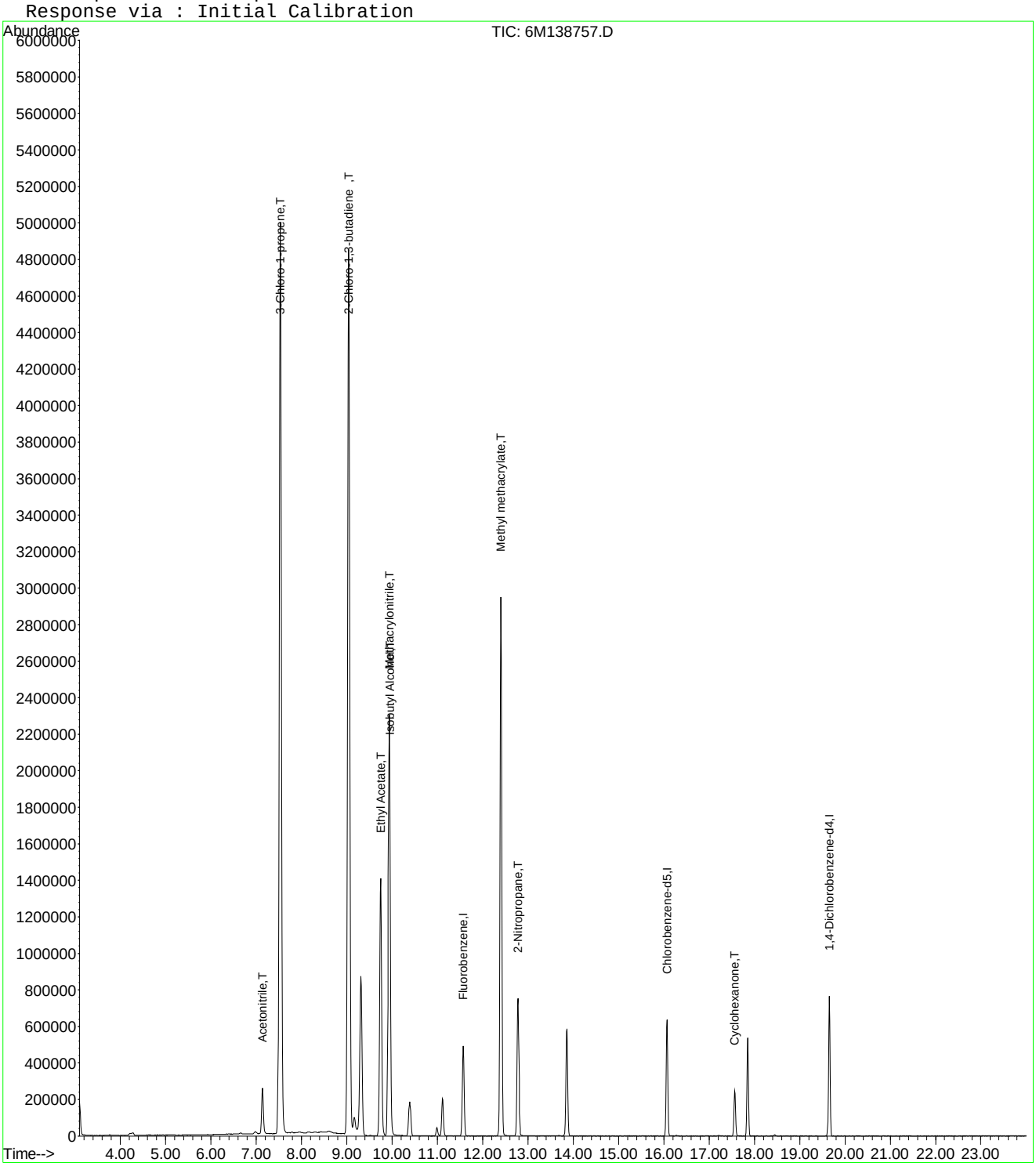
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	602625	25.00	ug/L		0.00
11) Chlorobenzene-d5	16.08	117	475117	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	19.65	152	264739	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	368012	407.7137	ug/L		93
3) 3-Chloro-1-propene	7.53	41	5948883	395.4723	ug/L		94
4) 2-Chloro-1,3-butadiene	9.04	53	5359203	415.2070	ug/L		83
5) Ethyl Acetate	9.76	43	2690267	416.3170	ug/L		94
6) Methacrylonitrile	9.94	67	929265	417.1119	ug/L	#	62
7) Isobutyl Alcohol	9.95	43	192560	935.6065	ug/L	#	89
9) Methyl methacrylate	12.40	41	2375132	437.2937	ug/L		81
10) 2-Nitropropane	12.79	43	849210	420.4022	ug/L		98
13) Cyclohexanone	17.57	55	149420	452.7705	ug/L		87

(#) = qualifier out of range (m) = manual integration
6M138757.D A9FOOWT.M Wed Apr 27 16:05:01 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138757.D Vial: 8
Acq On : 24 Apr 2016 20:12 Operator: JDS
Sample : WG566155-08 400ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:05 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\042416\6M138758.D Vial: 9
Acq On : 24 Apr 2016 20:44 Operator: JDS
Sample : WG566155-09 500ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 09:22:52 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

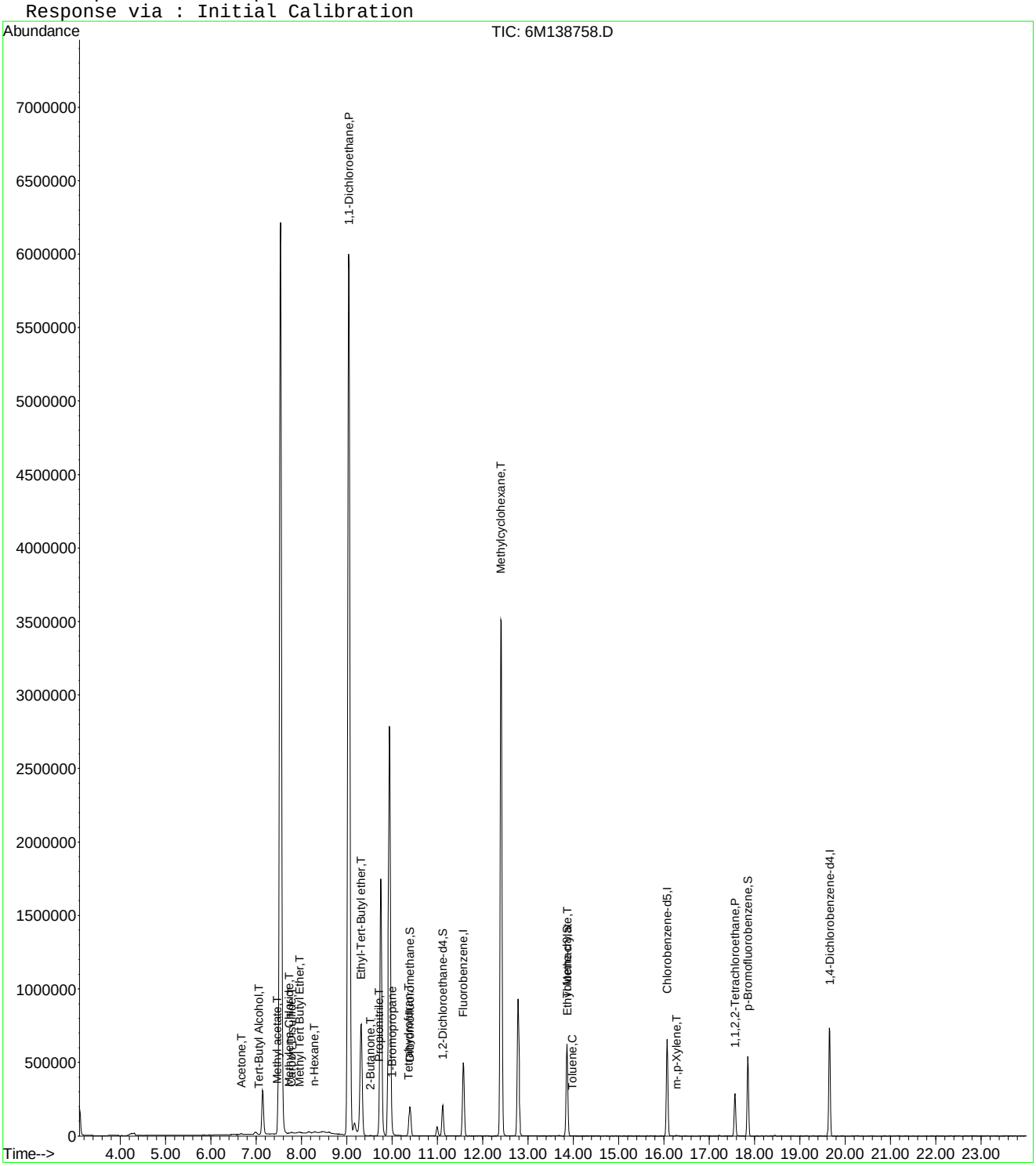
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	616486	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.07	117	485048	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.66	152	268890	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.39	111	175239	27.7556 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 111.04%		
43) 1,2-Dichloroethane-d4	11.12	65	210644	27.4898 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 109.96%		
58) Toluene-d8	13.86	98	563297	25.7957 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.20%		
80) p-Bromofluorobenzene	17.85	95	249406	27.7824 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 111.12%		
Target Compounds					Qvalue
13) Acetone	6.67	43	15233	7.9684 ug/L	89
15) Tert-Butyl Alcohol	7.06	59	370	0.6737 ug/L #	59
18) Methyl acetate	7.46	43	1079	0.2032 ug/L #	34
19) Methylene Chloride	7.73	84	1471	0.2176 ug/L	66
20) Carbon Disulfide	7.78	76	2765	0.1407 ug/L #	74
22) Methyl Tert Butyl Ether	7.96	73	25284	1.5144 ug/L #	53
24) n-Hexane	8.28	57	5266	0.5954 ug/L	97
27) 1,1-Dichloroethane	9.05	63	105121	8.0488 ug/L #	48
28) Ethyl-Tert-Butyl ether	9.31	59	124099	5.8551 ug/L #	39
29) 2-Butanone	9.52	43	4475	1.5860 ug/L #	72
30) Propionitrile	9.71	54	473	0.5835 ug/L #	1
34) 1-Bromopropane	10.00	122	2117	1.9980 ug/L #	1
36) Tetrahydrofuran	10.36	42	5652	3.0747 ug/L #	54
48) Methylcyclohexane	12.40	83	8011	0.8956 ug/L #	1
59) Toluene	13.98	91	3373	0.1249 ug/L	84
60) Ethyl Methacrylate	13.87	69	1585	0.2184 ug/L #	1
73) m-,p-Xylene	16.28	106	2521	0.2191 ug/L	79
79) 1,1,2,2-Tetrachloroethane	17.57	83	14350	2.1917 ug/L #	18

(#) = qualifier out of range (m) = manual integration
6M138758.D 8260WTR.M Mon Apr 25 09:22:52 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138758.D Vial: 9
Acq On : 24 Apr 2016 20:44 Operator: JDS
Sample : WG566155-09 500ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 9:22 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138758.D Vial: 9
Acq On : 24 Apr 2016 20:44 Operator: JDS
Sample : WG566155-09 500ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:46:00 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

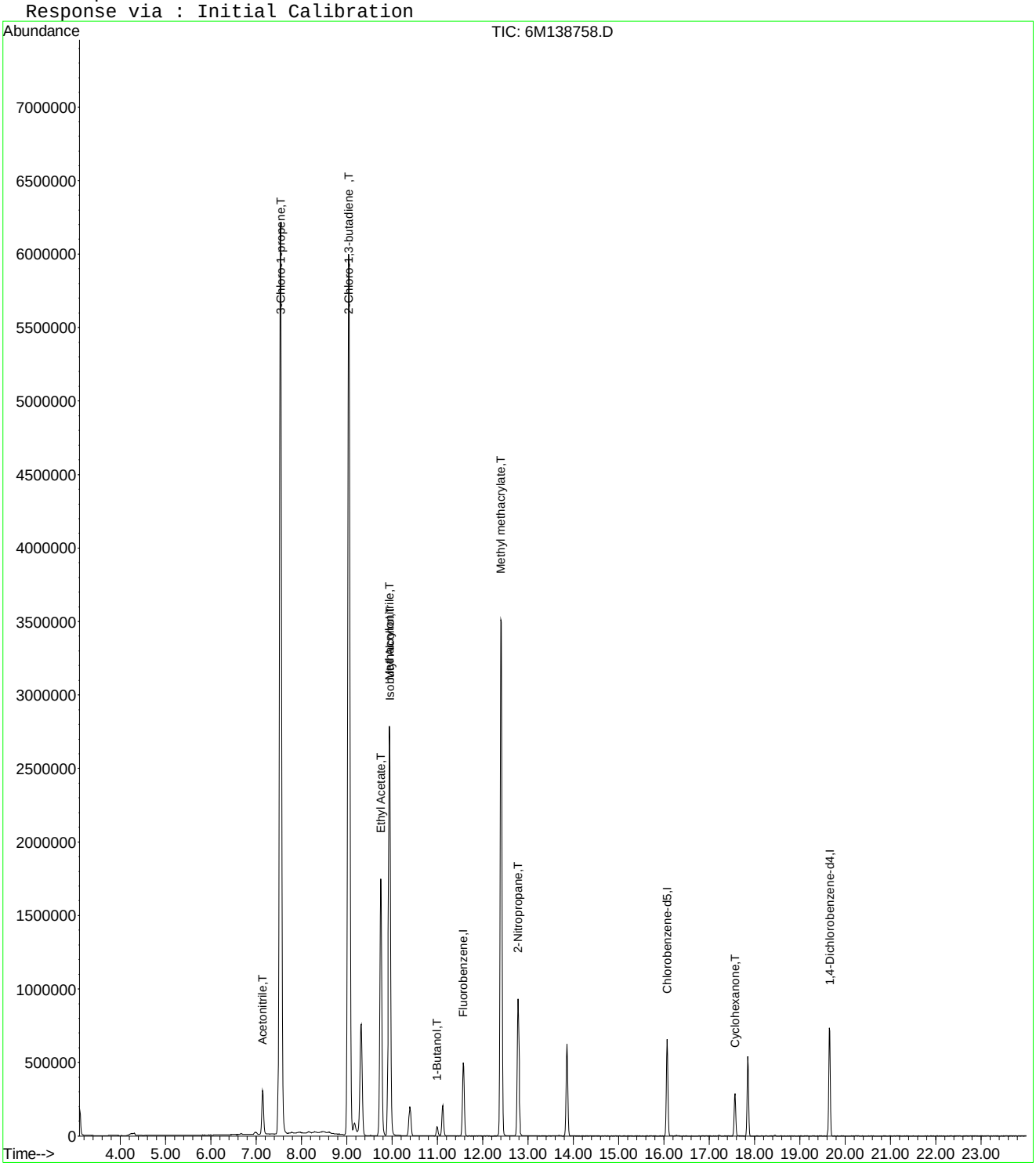
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	616486	25.00	ug/L		-0.03
11) Chlorobenzene-d5	16.07	117	485048	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	19.66	152	268890	25.00	ug/L		-0.02
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	449583	379.8136	ug/L		92
3) 3-Chloro-1-propene	7.54	41	7430577	449.8223	ug/L		94
4) 2-Chloro-1,3-butadiene	9.04	53	6752476	474.8265	ug/L		84
5) Ethyl Acetate	9.75	43	3307403	508.5794	ug/L		94
6) Methacrylonitrile	9.94	67	1145073	457.8027	ug/L	#	63
7) Isobutyl Alcohol	9.95	43	251034	701.6799	ug/L	#	90
8) 1-Butanol	10.99	41	42236	274.4224	ug/L		75
9) Methyl methacrylate	12.40	41	2914815	450.1389	ug/L		81
10) 2-Nitropropane	12.78	43	1036720	543.0629	ug/L		99
13) Cyclohexanone	17.57	55	176545	192.2558	ug/L		87

(#) = qualifier out of range (m) = manual integration
6M138758.D A9FOOWT.M Mon Apr 25 15:46:01 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138758.D Vial: 9
Acq On : 24 Apr 2016 20:44 Operator: JDS
Sample : WG566155-09 500ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:46 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138758.D Vial: 9
Acq On : 24 Apr 2016 20:44 Operator: JDS
Sample : WG566155-09 500ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:05:01 2016 Quant Results File: A9FOOWT.RES

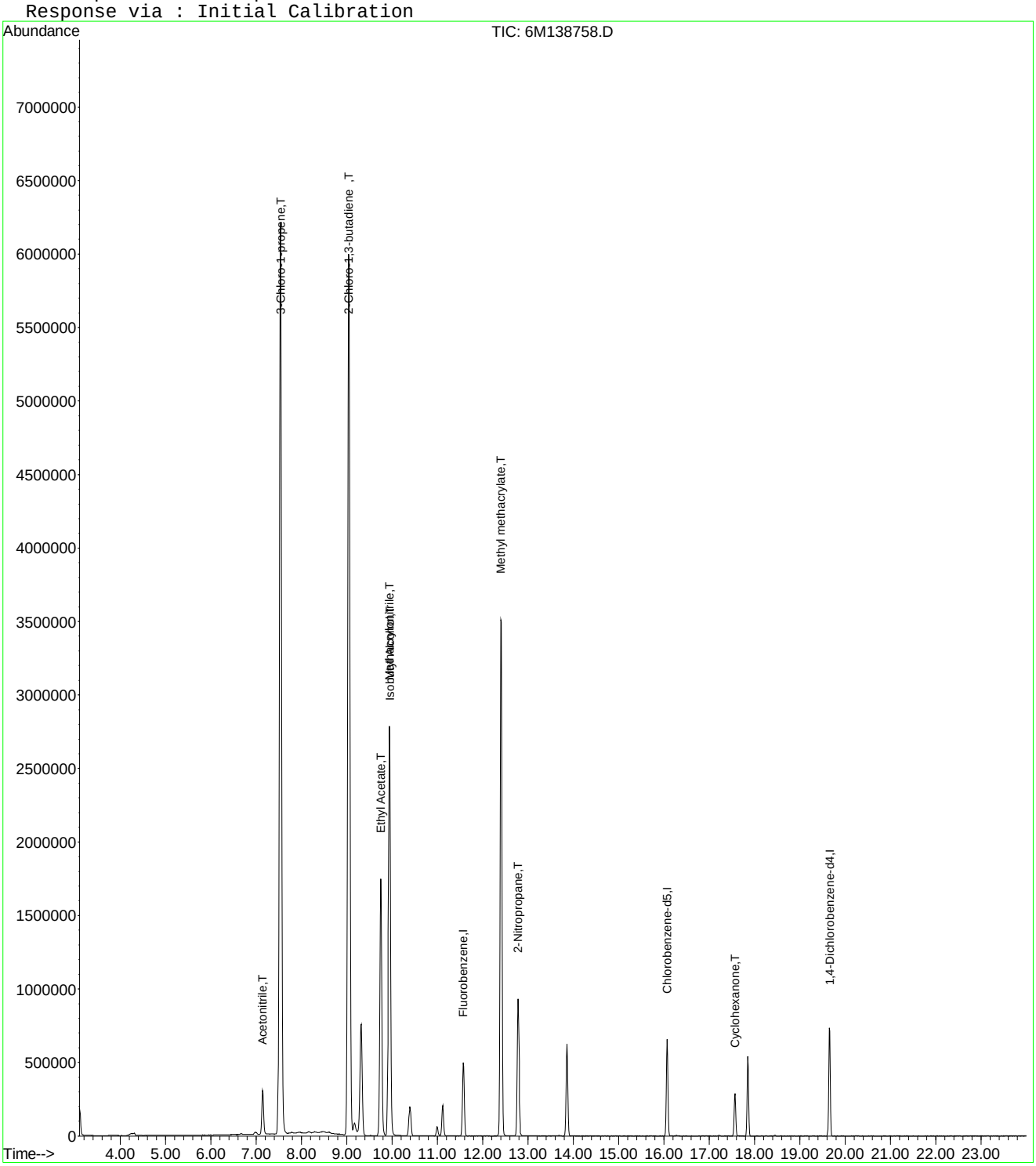
Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	616486	25.00	ug/L		0.00
11) Chlorobenzene-d5	16.07	117	485048	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	19.66	152	268890	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	449583	486.8858	ug/L		92
3) 3-Chloro-1-propene	7.54	41	7430577	482.8665	ug/L		94
4) 2-Chloro-1,3-butadiene	9.04	53	6752476	511.3891	ug/L		84
5) Ethyl Acetate	9.75	43	3307403	500.3107	ug/L		94
6) Methacrylonitrile	9.94	67	1145073	502.4237	ug/L	#	63
7) Isobutyl Alcohol	9.95	43	251034	1192.2947	ug/L	#	90
9) Methyl methacrylate	12.40	41	2914815	524.5904	ug/L		81
10) 2-Nitropropane	12.78	43	1036720	501.6898	ug/L		99
13) Cyclohexanone	17.57	55	176545	526.7057	ug/L		87

(#) = qualifier out of range (m) = manual integration
6M138758.D A9FOOWT.M Wed Apr 27 16:05:01 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\042416\6M138758.D Vial: 9
Acq On : 24 Apr 2016 20:44 Operator: JDS
Sample : WG566155-09 500ug/L STD 826-A9 Inst : HPMS6
Misc : 1,1 STD75791 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:05 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138761.D Vial: 12
Acq On : 24 Apr 2016 22:21 Operator: JDS
Sample : WG566 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 09:22:54 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

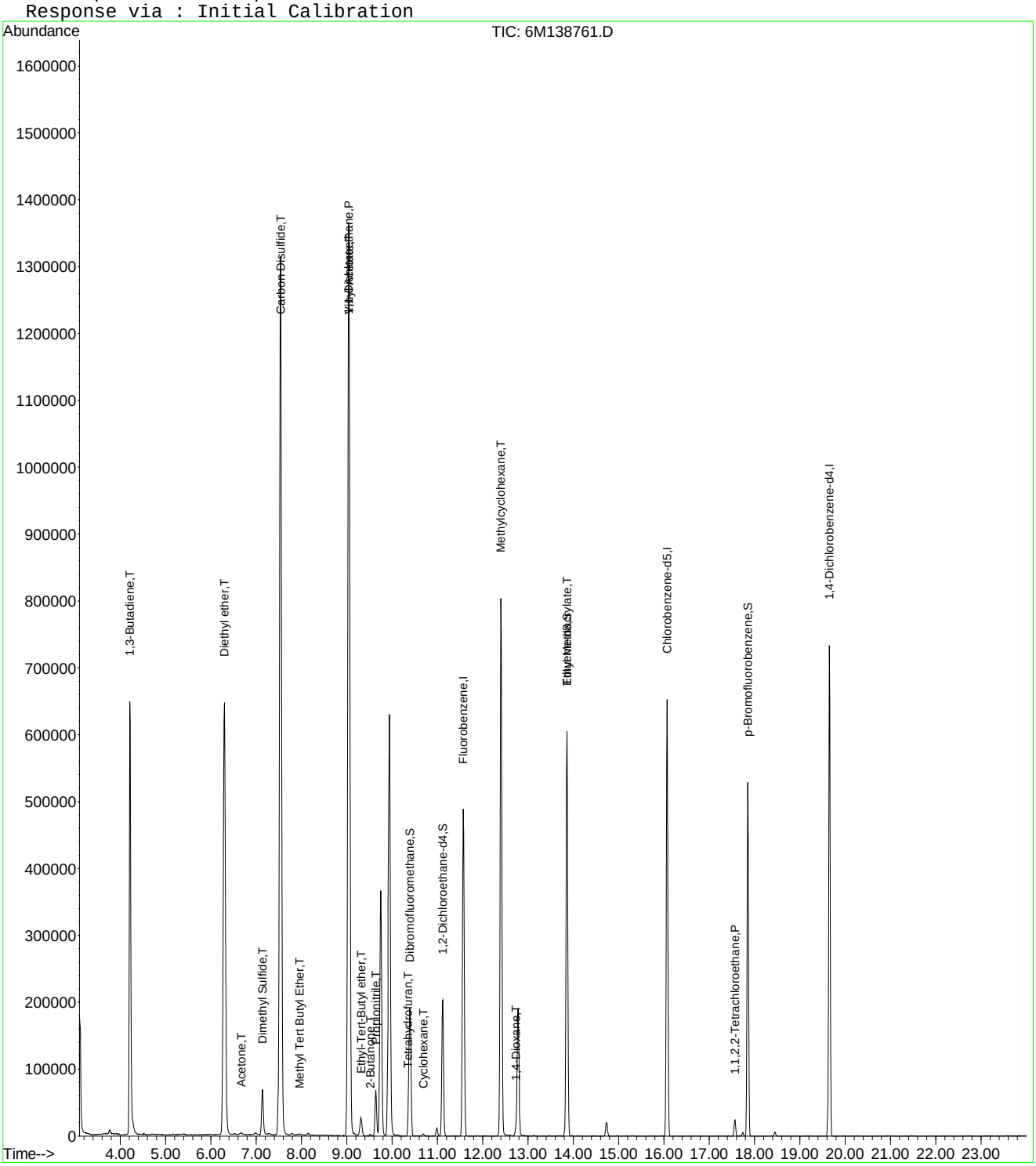
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	602884	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.07	117	471639	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	256885	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.40	111	171708	27.8099 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 111.24%		
43) 1,2-Dichloroethane-d4	11.12	65	210067	28.0330 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 112.12%		
58) Toluene-d8	13.86	98	553825	26.0829 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.32%		
80) p-Bromofluorobenzene	17.85	95	243088	28.3441 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 113.36%		
Target Compounds					Qvalue
5) 1,3-Butadiene	4.21	54	367749	92.2302 ug/L	88
9) Diethyl ether	6.30	59	700386	132.3612 ug/L	92
13) Acetone	6.67	43	6570	3.5143 ug/L	81
16) Dimethyl Sulfide	7.14	62	2726	0.5361 ug/L #	1
20) Carbon Disulfide	7.54	76	432674	22.5096 ug/L #	36
22) Methyl Tert Butyl Ether	7.97	73	2916	0.1786 ug/L #	53
26) Vinyl Acetate	9.05	43	5230	0.5414 ug/L #	1
27) 1,1-Dichloroethane	9.04	63	22472	1.7594 ug/L #	42
28) Ethyl-Tert-Butyl ether	9.32	59	4063	0.1960 ug/L #	35
29) 2-Butanone	9.52	43	6076	2.2019 ug/L #	66
30) Propionitrile	9.64	54	91341	115.2239 ug/L	96
36) Tetrahydrofuran	10.36	42	4030	2.2418 ug/L #	52
39) Cyclohexane	10.69	56	2387	0.2138 ug/L	79
48) Methylcyclohexane	12.40	83	1353	0.1547 ug/L #	1
50) 1,4-Dioxane	12.73	88	9231	177.0935 ug/L	71
60) Ethyl Methacrylate	13.86	69	1222	0.1732 ug/L #	1
79) 1,1,2,2-Tetrachloroethane	17.57	83	1146	0.1832 ug/L #	18

(#) = qualifier out of range (m) = manual integration
6M138761.D 8260WTR.M Mon Apr 25 09:22:54 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138761.D Vial: 12
Acq On : 24 Apr 2016 22:21 Operator: JDS
Sample : WG566 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 9:22 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 04-11-16 - HPMS6
Last Update : Tue Apr 12 15:28:54 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138761.D Vial: 12
Acq On : 24 Apr 2016 22:21 Operator: JDS
Sample : WG566 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:46:01 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration
DataAcq Meth : 8260WTR

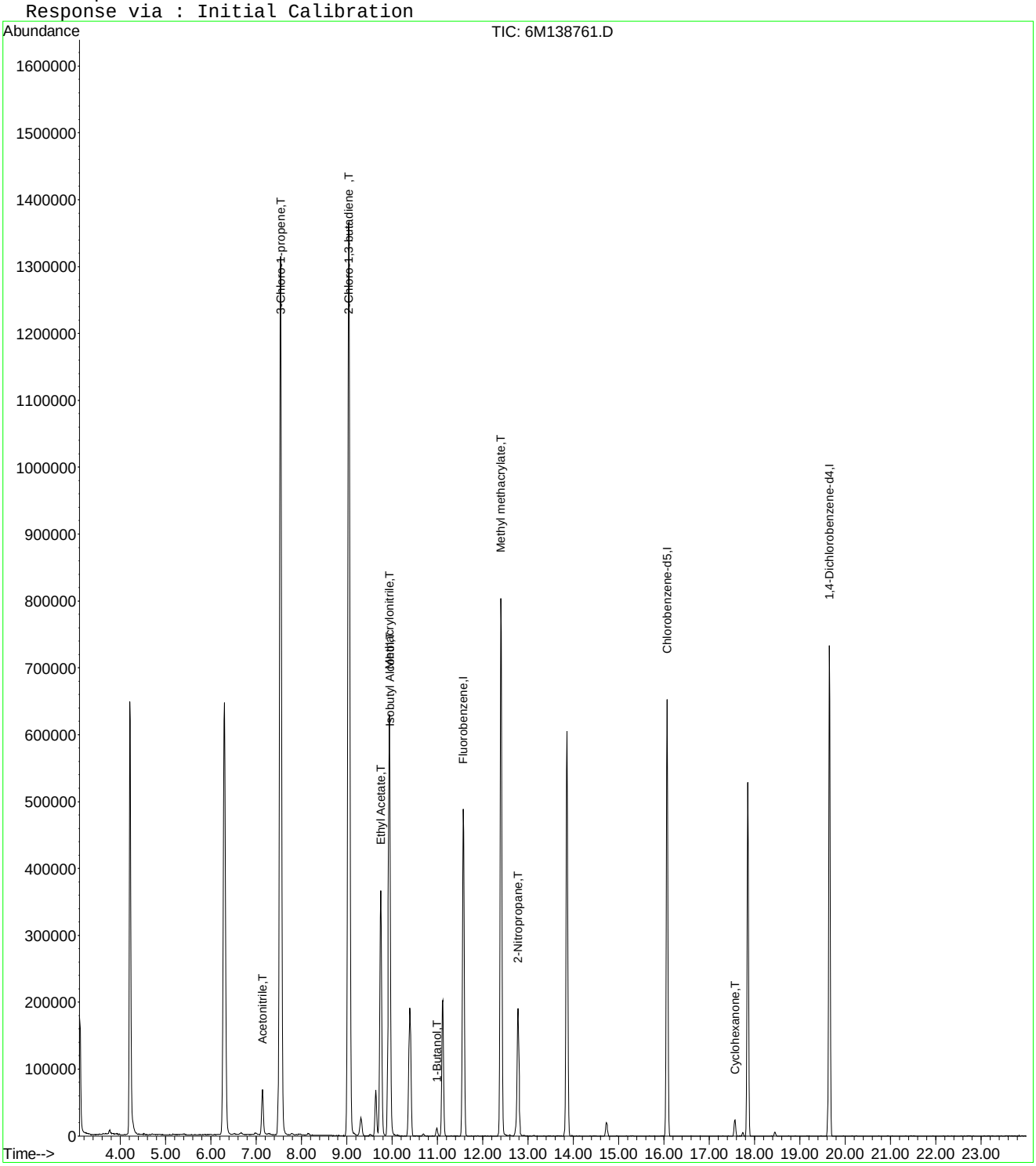
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	602884	25.00	ug/L		-0.03
11) Chlorobenzene-d5	16.07	117	471639	25.00	ug/L		-0.03
12) 1,4-Dichlorobenzene-d4	19.65	152	256885	25.00	ug/L		-0.03
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	96564	83.4191	ug/L		96
3) 3-Chloro-1-propene	7.54	41	1552115	96.0797	ug/L		93
4) 2-Chloro-1,3-butadiene	9.04	53	1512761	108.7756	ug/L		83
5) Ethyl Acetate	9.75	43	691566	108.7414	ug/L		93
6) Methacrylonitrile	9.94	67	252030	103.0355	ug/L	#	63
7) Isobutyl Alcohol	9.95	43	51165	146.2409	ug/L	#	93
8) 1-Butanol	10.99	41	7584	50.3877	ug/L		72
9) Methyl methacrylate	12.40	41	635574	100.3670	ug/L		81
10) 2-Nitropropane	12.79	43	211020	113.0321	ug/L		98
13) Cyclohexanone	17.57	55	15491	17.6579	ug/L		85

(#) = qualifier out of range (m) = manual integration
6M138761.D A9FOOWT.M Mon Apr 25 15:46:02 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138761.D Vial: 12
Acq On : 24 Apr 2016 22:21 Operator: JDS
Sample : WG566 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 25 15:46 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042216 - HPMS6
Last Update : Wed Oct 07 14:05:31 2015
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138761.D Vial: 12
Acq On : 24 Apr 2016 22:21 Operator: JDS
Sample : WG566 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:05:02 2016 Quant Results File: A9FOOWT.RES

Quant Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

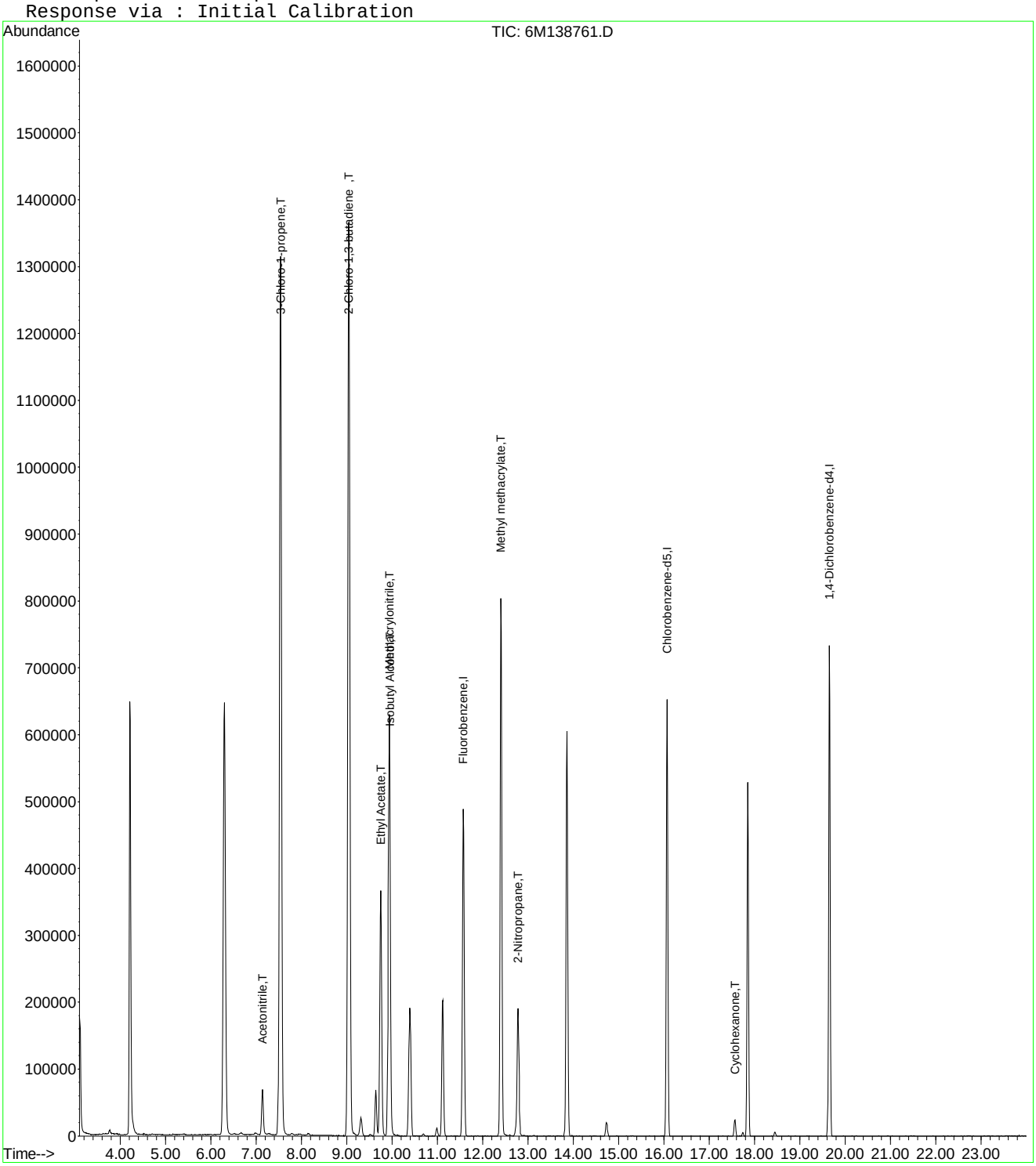
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	602884	25.00	ug/L		0.00
11) Chlorobenzene-d5	16.07	117	471639	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	19.65	152	256885	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	7.14	41	96564	106.9355	ug/L		96
3) 3-Chloro-1-propene	7.54	41	1552115	103.1378	ug/L		93
4) 2-Chloro-1,3-butadiene	9.04	53	1512761	117.1516	ug/L		83
5) Ethyl Acetate	9.75	43	691566	106.9734	ug/L		93
6) Methacrylonitrile	9.94	67	252030	113.0781	ug/L	#	63
7) Isobutyl Alcohol	9.95	43	51165	248.4926	ug/L	#	93
9) Methyl methacrylate	12.40	41	635574	116.9674	ug/L		81
10) 2-Nitropropane	12.79	43	211020	104.4208	ug/L		98
13) Cyclohexanone	17.57	55	15491	48.3758	ug/L		85

(#) = qualifier out of range (m) = manual integration
6M138761.D A9FOOWT.M Wed Apr 27 16:05:02 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\042416\6M138761.D Vial: 12
Acq On : 24 Apr 2016 22:21 Operator: JDS
Sample : WG566 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 27 16:05 2016 Quant Results File: A9FOOWT.RES

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\042416\6M138761.D Vial: 12
Acq On : 24 Apr 2016 22:21 Operator: JDS
Sample : WG566 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water - IC: 042416 - HPMS6
Last Update : Wed Apr 27 16:03:33 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	101	0.00
2	T	Acetonitrile	100.0000	106.9355	-6.9	106	0.00
3	T	3-Chloro-1-propene	100.0000	103.1378	-3.1	96	0.00
4	T	2-Chloro-1,3-butadiene	100.0000	117.1516	-17.2	107	0.00
5	T	Ethyl Acetate	100.0000	106.9734	-7.0	103	0.00
6	T	Methacrylonitrile	100.0000	113.0781	-13.1	106	0.00
7	T	Isobutyl Alcohol	200.0000	248.4926	-24.2	151	0.00
8	T	1-Butanol	-1.0000	0.0000	0.0	0	0.00
9	T	Methyl methacrylate	100.0000	116.9674	-17.0	108	0.00
10	T	2-Nitropropane	100.0000	104.4208	-4.4	107	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	101	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	100.0000	48.3758	51.6	56	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M138761.D A9FOOWT.M Wed Apr 27 16:05:40 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051116\6M139178.D Vial: 2
Acq On : 11 May 2016 10:40 Operator: TMB
Sample : WG568265-02 0.3ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:09 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.57	96	791503	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.07	117	573562	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	301730	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L	
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#		
43) 1,2-Dichloroethane-d4	11.11	65	392	0.0424	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.16%#		
58) Toluene-d8	13.86	98	1707	0.0605	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.24%#		
80) p-Bromofluorobenzene	17.84	95	898	0.0803	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.32%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.44	85	3694	0.2964	ug/L	90
3) Chloromethane	3.93	50	6272	0.3669	ug/L	94
4) Vinyl Chloride	4.17	62	4005	0.3643	ug/L	99
5) 1,3-Butadiene	4.22	54	2166	Below Cal #		58
6) Bromomethane	5.07	94	2660	0.4280	ug/L	85
7) Chloroethane	5.25	64	2551	0.3632	ug/L #	70
8) Trichlorofluoromethane	5.73	101	4808	0.3447	ug/L	87
9) Diethyl ether	6.30	59	2260	0.3061	ug/L #	63
10) Isoprene	6.32	67	2506	0.3598	ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	6.56	101	2062	0.2588	ug/L #	74
13) Acetone	6.65	43	3168	Below Cal #		48
14) 1,1-Dichloroethene	6.88	61	4852	0.3362	ug/L	98
16) Dimethyl Sulfide	7.17	62	2408	0.5120	ug/L #	53
18) Methyl acetate	7.45	43	4954	0.7345	ug/L #	66
19) Methylene Chloride	7.72	84	3270	0.3836	ug/L	97
20) Carbon Disulfide	7.77	76	6348	0.4251	ug/L	93
22) Methyl Tert Butyl Ether	7.95	73	6837	0.3110	ug/L	92
23) trans-1,2-Dichloroethene	8.21	96	2827	0.3425	ug/L	100
24) n-Hexane	8.29	57	3919	0.4500	ug/L #	37
26) Vinyl Acetate	8.85	43	2883	0.2473	ug/L #	78
27) 1,1-Dichloroethane	8.88	63	5695	0.3461	ug/L	88
29) 2-Butanone	9.52	43	3113	0.8667	ug/L #	57
31) 2,2-Dichloropropane	9.74	77	3949	0.3262	ug/L #	59
32) cis-1,2-Dichloroethene	9.82	96	2883	0.3162	ug/L	99
33) Chloroform	10.06	83	4896	0.3249	ug/L	94
35) Bromochloromethane	10.32	130	1182	0.2363	ug/L	84
36) Tetrahydrofuran	10.34	42	5217	Below Cal		83
38) 1,1,1-Trichloroethane	10.66	97	4121	0.3121	ug/L	89
39) Cyclohexane	10.69	56	4698	0.3552	ug/L	81
40) 1,1-Dichloropropene	10.88	75	3723	0.3246	ug/L	72
42) Carbon Tetrachloride	11.05	117	3559	0.3035	ug/L #	89
45) 1,2-Dichloroethane	11.25	62	3486	0.3012	ug/L #	78
46) Benzene	11.28	78	12102	0.3662	ug/L	92
47) Trichloroethene	12.15	130	3228	0.3735	ug/L	81
48) Methylcyclohexane	12.24	83	4036	0.3546	ug/L	86
49) 1,2-Dichloropropane	12.40	63	2995	0.3229	ug/L	79
51) Bromodichloromethane	12.73	83	3131	0.2775	ug/L	87
52) Dibromomethane	12.84	93	1252	0.2679	ug/L	79
53) 2-Chloroethyl Vinyl Ether	13.09	63	876	0.1923	ug/L #	41
55) cis-1,3-Dichloropropene	13.48	75	3940	0.2978	ug/L	87

(#) = qualifier out of range (m) = manual integration
6M139178.D 8260WTR.M Thu May 12 12:56:09 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139178.D Vial: 2
Acq On : 11 May 2016 10:40 Operator: TMB
Sample : WG568265-02 0.3ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:09 2016 Quant Results File: 8260WTR.RES

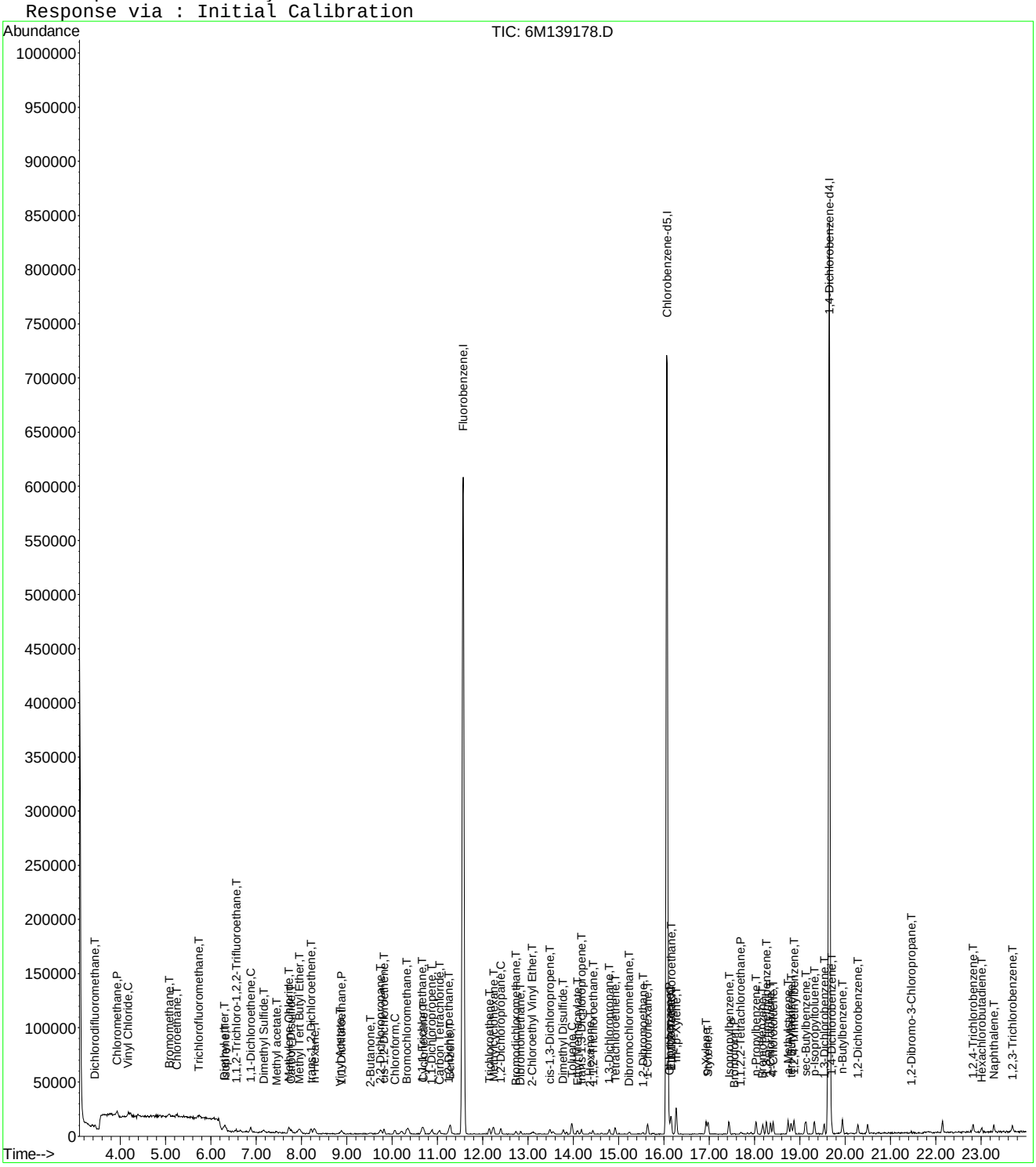
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
56)	Dimethyl Disulfide	13.78	79	1527	0.2098	ug/L	#	47
59)	Toluene	13.97	91	12357	0.3635	ug/L		93
60)	Ethyl Methacrylate	14.09	69	2466	0.2496	ug/L	#	55
62)	trans-1,3-Dichloropropene	14.18	75	3508	0.3032	ug/L	#	65
63)	1,1,2-Trichloroethane	14.44	97	1938	0.3077	ug/L		95
64)	2-Hexanone	14.37	43	2275	0.4123	ug/L	#	40
65)	1,3-Dichloropropane	14.79	76	3343	0.2985	ug/L		67
66)	Tetrachloroethene	14.93	166	3082	0.3484	ug/L		97
67)	Dibromochloromethane	15.24	129	2249	0.2913	ug/L		93
68)	1,2-Dibromoethane	15.54	107	1770	0.2865	ug/L		97
69)	1-Chlorohexane	15.64	91	4262	0.3641	ug/L		98
70)	Chlorobenzene	16.12	112	7553	0.3353	ug/L		98
71)	1,1,1,2-Tetrachloroethane	16.16	131	2305	0.2809	ug/L		93
72)	Ethylbenzene	16.15	106	4114	0.3376	ug/L		100
73)	m-,p-Xylene	16.27	106	10357	0.7068	ug/L		98
74)	o-Xylene	16.93	106	5038	0.3471	ug/L		91
75)	Styrene	16.97	104	8246	0.3288	ug/L		94
76)	Bromoform	17.55	173	1070	0.2160	ug/L	#	35
77)	Isopropylbenzene	17.44	105	12652	0.3447	ug/L		96
79)	1,1,2,2-Tetrachloroethane	17.70	83	2122	0.2927	ug/L		85
83)	n-Propylbenzene	18.03	91	16254	0.3905	ug/L	#	97
84)	Bromobenzene	18.18	156	3540	0.3637	ug/L		93
85)	1,3,5-Trimethylbenzene	18.26	105	11211	0.3730	ug/L		93
86)	2-Chlorotoluene	18.35	91	10096	0.3653	ug/L		93
87)	4-Chlorotoluene	18.41	91	10040	0.3802	ug/L		95
88)	a-Methylstyrene	18.74	118	5307	0.3180	ug/L		94
89)	tert-Butylbenzene	18.81	134	2279	0.3460	ug/L		96
90)	1,2,4-Trimethylbenzene	18.87	105	11707	0.3803	ug/L		96
91)	sec-Butylbenzene	19.13	105	13699	0.3774	ug/L		98
92)	p-Isopropyltoluene	19.32	119	11631	0.3709	ug/L		98
93)	1,3-Dichlorobenzene	19.54	146	6176	0.3335	ug/L		96
94)	1,4-Dichlorobenzene	19.70	146	6516	0.3470	ug/L		86
95)	n-Butylbenzene	19.94	91	11359	0.3804	ug/L		98
96)	1,2-Dichlorobenzene	20.28	146	6042	0.3446	ug/L		98
97)	1,2-Dibromo-3-Chloropropan	21.46	75	189	0.1388	ug/L		85
98)	1,2,4-Trichlorobenzene	22.82	180	4170	0.3328	ug/L		92
99)	Hexachlorobutadiene	23.02	225	1963	0.3573	ug/L		85
100)	Naphthalene	23.28	128	8343	0.3372	ug/L		91
101)	1,2,3-Trichlorobenzene	23.69	180	4179	0.3549	ug/L	#	83

(#) = qualifier out of range (m) = manual integration
6M139178.D 8260WTR.M Thu May 12 12:56:09 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051116\6M139178.D Vial: 2
Acq On : 11 May 2016 10:40 Operator: TMB
Sample : WG568265-02 0.3ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051116\6M139178.D Vial: 2
Acq On : 11 May 2016 10:40 Operator: TMB
Sample : WG568265-02 0.3ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	-1.0000	0.2964	0.0	100	0.00
3	P	Chloromethane	-1.0000	0.3669	0.0	100	0.00
4	C	Vinyl Chloride	-1.0000	0.3643	0.0	100	0.00
5	T	1,3-Butadiene	-1.0000	-1.0000	0.0	0	0.02
6	T	Bromomethane	-1.0000	0.4280	0.0	100	0.00
7	T	Chloroethane	-1.0000	0.3632	0.0	100	0.00
8	T	Trichlorofluoromethane	-1.0000	0.3447	0.0	100	0.00
9	T	Diethyl ether	-1.0000	0.3061	0.0	0	0.00
10	T	Isoprene	-1.0000	0.3598	0.0	100	0.00
11	T	Acrolein	-1.0000	0.0000	0.0	0	-6.55#
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.0000	0.2588	0.0	100	0.00
13	T	Acetone	-1.0000	-3.3122	0.0	100	-0.01
14	C	1,1-Dichloroethene	-1.0000	0.3362	0.0	100	0.00
15	T	Tert-Butyl Alcohol	-1.0000	0.0000	0.0	0	-7.02#
16	T	Dimethyl Sulfide	-1.0000	0.5120	0.0	100	0.00
17	T	Iodomethane	-1.0000	0.0000	0.0	0	-7.44#
18	T	Methyl acetate	-1.0000	0.7345	0.0	100	0.00
19	T	Methylene Chloride	-1.0000	0.3836	0.0	100	0.00
20	T	Carbon Disulfide	-1.0000	0.4251	0.0	100	0.00
21	T	Acrylonitrile	-1.0000	0.0000	0.0	0	-7.92#
22	T	Methyl Tert Butyl Ether	-1.0000	0.3110	0.0	100	0.00
23	T	trans-1,2-Dichloroethene	-1.0000	0.3425	0.0	100	0.00
24	T	n-Hexane	-1.0000	0.4500	0.0	100	0.00
25	T	Diisopropyl ether	-1.0000	0.0000	0.0	0	-8.67#
26	T	Vinyl Acetate	-1.0000	0.2473	0.0	100	-0.01
27	P	1,1-Dichloroethane	-1.0000	0.3461	0.0	100	-0.01
28	T	Ethyl-Tert-Butyl ether	-1.0000	0.0000	0.0	0	-9.30#
29	T	2-Butanone	-1.0000	0.8667	0.0	100	0.00
30	T	Propionitrile	-1.0000	0.0000	0.0	0	-9.64#
31	T	2,2-Dichloropropane	-1.0000	0.3262	0.0	100	-0.01
32	T	cis-1,2-Dichloroethene	-1.0000	0.3162	0.0	100	0.00
33	C	Chloroform	0.3000	0.3249	-8.3	100	0.00
34		1-Bromopropane	-1.0000	0.0000	0.0	0	-10.21#
35	T	Bromochloromethane	-1.0000	0.2363	0.0	100	0.00
36	T	Tetrahydrofuran	-1.0000	-1.4183	0.0	0	0.00
37	S	Dibromofluoromethane	-1.0000	0.0000	0.0	0	-10.39#
38	T	1,1,1-Trichloroethane	-1.0000	0.3121	0.0	100	0.00
39	T	Cyclohexane	-1.0000	0.3552	0.0	100	0.00
40	T	1,1-Dichloropropene	-1.0000	0.3246	0.0	100	0.00
41	T	Tert-Amyl-Methyl ether	-1.0000	0.0000	0.0	0	-11.00#
42	T	Carbon Tetrachloride	-1.0000	0.3035	0.0	100	0.00
43	S	1,2-Dichloroethane-d4	-1.0000	0.0424	0.0	100	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-11.01#
45	T	1,2-Dichloroethane	-1.0000	0.3012	0.0	100	0.00
46	T	Benzene	-1.0000	0.3662	0.0	100	0.00
47	T	Trichloroethene	-1.0000	0.3735	0.0	100	0.00
48	T	Methylcyclohexane	-1.0000	0.3546	0.0	100	0.00
49	C	1,2-Dichloropropane	-1.0000	0.3229	0.0	100	0.00
50	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-12.72#
51	T	Bromodichloromethane	-1.0000	0.2775	0.0	100	-0.01
52	T	Dibromomethane	-1.0000	0.2679	0.0	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.1923	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.0770	0.0	100	0.00

(#) = Out of Range
6M139178.D 8260WTR.M Thu May 12 12:56:34 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139178.D Vial: 2
Acq On : 11 May 2016 10:40 Operator: TMB
Sample : WG568265-02 0.3ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	-1.0000	0.2978	0.0	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.2098	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	-1.0000	0.0605	0.0	100	0.00
59	C	Toluene	-1.0000	0.3635	0.0	100	0.00
60	T	Ethyl Methacrylate	-1.0000	0.2496	0.0	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.97#
62	T	trans-1,3-Dichloropropene	-1.0000	0.3032	0.0	100	0.00
63	T	1,1,2-Trichloroethane	-1.0000	0.3077	0.0	100	0.00
64	T	2-Hexanone	-1.0000	0.4123	0.0	100	0.00
65	T	1,3-Dichloropropane	-1.0000	0.2985	0.0	100	0.00
66	T	Tetrachloroethene	-1.0000	0.3484	0.0	100	0.00
67	T	Dibromochloromethane	-1.0000	0.2913	0.0	100	0.00
68	T	1,2-Dibromoethane	-1.0000	0.2865	0.0	100	0.00
69	T	1-Chlorohexane	-1.0000	0.3641	0.0	100	0.00
70	P	Chlorobenzene	-1.0000	0.3353	0.0	100	0.00
71	T	1,1,1,2-Tetrachloroethane	-1.0000	0.2809	0.0	100	0.00
72	C	Ethylbenzene	-1.0000	0.3376	0.0	100	-0.01
73	T	m-,p-Xylene	-1.0000	0.7068	0.0	100	0.00
74	T	o-Xylene	-1.0000	0.3471	0.0	100	0.00
75	T	Styrene	-1.0000	0.3288	0.0	100	0.00
76	P	Bromoform	-1.0000	0.2160	0.0	100	0.00
77	T	Isopropylbenzene	-1.0000	0.3447	0.0	0	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	-1.0000	0.2927	0.0	100	0.00
80	S	p-Bromofluorobenzene	-1.0000	0.0803	0.0	100	0.00
81	T	1,2,3-Trichloropropane	-1.0000	0.0923	0.0	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	-1.0000	0.0731	0.0	100	0.00
83	T	n-Propylbenzene	-1.0000	0.3905	0.0	0	0.00
84	T	Bromobenzene	0.3000	0.3637	-21.2#	100	0.00
85	T	1,3,5-Trimethylbenzene	-1.0000	0.3730	0.0	0	0.00
86	T	2-Chlorotoluene	-1.0000	0.3653	0.0	100	0.00
87	T	4-Chlorotoluene	-1.0000	0.3802	0.0	100	0.00
88	T	a-Methylstyrene	-1.0000	0.3180	0.0	100	0.00
89	T	tert-Butylbenzene	-1.0000	0.3460	0.0	100	0.00
90	T	1,2,4-Trimethylbenzene	-1.0000	0.3803	0.0	100	0.00
91	T	sec-Butylbenzene	-1.0000	0.3774	0.0	100	0.00
92	T	p-Isopropyltoluene	-1.0000	0.3709	0.0	100	0.00
93	T	1,3-Dichlorobenzene	-1.0000	0.3335	0.0	100	0.00
94	T	1,4-Dichlorobenzene	0.3000	0.3470	-15.7	100	0.00
95	T	n-Butylbenzene	-1.0000	0.3804	0.0	100	0.00
96	T	1,2-Dichlorobenzene	0.3000	0.3446	-14.9	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.1388	0.0	100	0.00
98	T	1,2,4-Trichlorobenzene	-1.0000	0.3328	0.0	100	0.00
99	T	Hexachlorobutadiene	-1.0000	0.3573	0.0	100	0.00
100	T	Naphthalene	-1.0000	0.3372	0.0	100	0.00
101	T	1,2,3-Trichlorobenzene	0.3000	0.3549	-18.3	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M139178.D 8260WTR.M Thu May 12 12:56:34 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051116\6M139179.D Vial: 3
Acq On : 11 May 2016 11:12 Operator: TMB
Sample : WG568265-03 0.4ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:11 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	11.57	96	787125	25.00	ug/L		0.00
57) Chlorobenzene-d5	16.06	117	576557	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	306768	25.00	ug/L		0.00
System Monitoring Compounds							
37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L		
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#			
43) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/L		
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#			
58) Toluene-d8	0.00	98	0	0.0000	ug/L		
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#			
80) p-Bromofluorobenzene	17.85	95	187	0.0164	ug/L		0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.08%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.45	85	4384	0.3537	ug/L		86
3) Chloromethane	3.93	50	8012	0.4713	ug/L	#	74
4) Vinyl Chloride	4.17	62	5279	0.4829	ug/L		92
5) 1,3-Butadiene	4.22	54	2243	Below Cal		#	79
6) Bromomethane	5.08	94	3208	0.5191	ug/L		78
7) Chloroethane	5.24	64	3119	0.4466	ug/L	#	67
8) Trichlorofluoromethane	5.74	101	5402	0.3895	ug/L	#	94
9) Diethyl ether	6.29	59	928	0.1264	ug/L	#	1
10) Isoprene	6.33	67	4091	0.5907	ug/L		88
11) Acrolein	6.34	56	396	0.3591	ug/L	#	15
12) 1,1,2-Trichloro-1,2,2-Trif	6.55	101	2606	0.3289	ug/L		85
13) Acetone	6.66	43	2276	Below Cal		#	64
14) 1,1-Dichloroethene	6.88	61	6013	0.4189	ug/L		93
16) Dimethyl Sulfide	7.17	62	2701	0.5775	ug/L	#	53
18) Methyl acetate	7.45	43	4930	0.7350	ug/L	#	66
19) Methylene Chloride	7.72	84	3779	0.4457	ug/L		92
20) Carbon Disulfide	7.77	76	6397	0.4307	ug/L		99
22) Methyl Tert Butyl Ether	7.97	73	8558	0.3914	ug/L		99
23) trans-1,2-Dichloroethene	8.21	96	3112	0.3792	ug/L		89
24) n-Hexane	8.29	57	4124	0.4762	ug/L	#	33
26) Vinyl Acetate	8.86	43	3219	0.2776	ug/L	#	78
27) 1,1-Dichloroethane	8.89	63	6467	0.3952	ug/L		99
29) 2-Butanone	9.51	43	2901	0.8121	ug/L	#	57
31) 2,2-Dichloropropane	9.76	77	5003	0.4155	ug/L		67
32) cis-1,2-Dichloroethene	9.82	96	3612	0.3984	ug/L		100
33) Chloroform	10.06	83	6280	0.4191	ug/L		92
35) Bromochloromethane	10.32	130	1606	0.3229	ug/L		83
36) Tetrahydrofuran	10.35	42	5568	Below Cal			78
38) 1,1,1-Trichloroethane	10.66	97	4988	0.3798	ug/L		93
39) Cyclohexane	10.69	56	5833	0.4435	ug/L		84
40) 1,1-Dichloropropene	10.88	75	4777	0.4188	ug/L		81
42) Carbon Tetrachloride	11.03	117	4411	0.3782	ug/L		95
45) 1,2-Dichloroethane	11.25	62	4739	0.4118	ug/L	#	81
46) Benzene	11.28	78	14250	0.4336	ug/L		94
47) Trichloroethene	12.14	130	3601	0.4189	ug/L		98
48) Methylcyclohexane	12.24	83	4672	0.4128	ug/L		86
49) 1,2-Dichloropropane	12.40	63	3777	0.4095	ug/L		88
51) Bromodichloromethane	12.74	83	4267	0.3803	ug/L		89
52) Dibromomethane	12.84	93	1639	0.3527	ug/L		97
53) 2-Chloroethyl Vinyl Ether	13.09	63	1653	0.3648	ug/L	#	41

(#) = qualifier out of range (m) = manual integration
6M139179.D 8260WTR.M Thu May 12 12:56:11 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139179.D Vial: 3
Acq On : 11 May 2016 11:12 Operator: TMB
Sample : WG568265-03 0.4ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:11 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

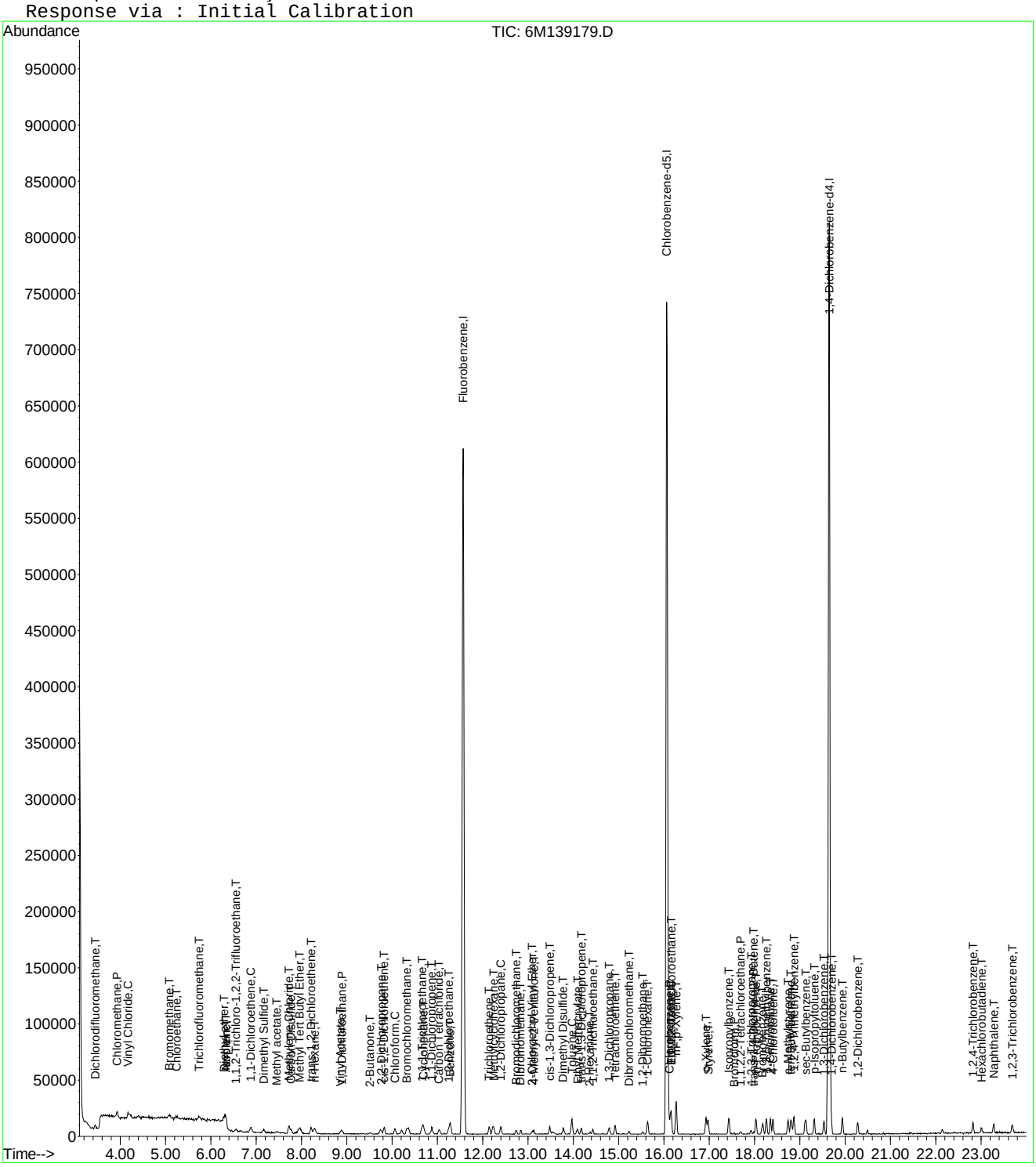
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
54)	4-Methyl-2-Pentanone	13.13	58	756	0.2735 ug/L	#	38
55)	cis-1,3-Dichloropropene	13.48	75	5226	0.3972 ug/L		94
56)	Dimethyl Disulfide	13.78	79	2359	0.3259 ug/L	#	65
59)	Toluene	13.97	91	14829	0.4339 ug/L		97
60)	Ethyl Methacrylate	14.10	69	3771	0.3797 ug/L		72
62)	trans-1,3-Dichloropropene	14.18	75	4049	0.3481 ug/L		84
63)	1,1,2-Trichloroethane	14.43	97	2320	0.3664 ug/L		96
64)	2-Hexanone	14.36	43	3271	0.5898 ug/L	#	58
65)	1,3-Dichloropropane	14.79	76	4228	0.3755 ug/L		67
66)	Tetrachloroethene	14.92	166	3487	0.3921 ug/L		93
67)	Dibromochloromethane	15.24	129	2544	0.3278 ug/L		96
68)	1,2-Dibromoethane	15.53	107	2294	0.3694 ug/L		97
69)	1-Chlorohexane	15.64	91	5006	0.4254 ug/L		96
70)	Chlorobenzene	16.12	112	9524	0.4206 ug/L		95
71)	1,1,1,2-Tetrachloroethane	16.16	131	3099	0.3757 ug/L		93
72)	Ethylbenzene	16.16	106	4704	0.3840 ug/L		77
73)	m-,p-Xylene	16.27	106	12663	0.8597 ug/L		99
74)	o-Xylene	16.93	106	5818	0.3987 ug/L		91
75)	Styrene	16.98	104	9806	0.3890 ug/L		89
76)	Bromoform	17.55	173	1315	0.2641 ug/L	#	51
77)	Isopropylbenzene	17.43	105	15681	0.4250 ug/L		96
79)	1,1,2,2-Tetrachloroethane	17.69	83	2628	0.3565 ug/L		92
81)	1,2,3-Trichloropropane	17.93	110	697	0.3244 ug/L	#	57
82)	trans-1,4-Dichloro-2-Buten	17.98	53	542	0.2083 ug/L		89
83)	n-Propylbenzene	18.03	91	18830	0.4449 ug/L	#	98
84)	Bromobenzene	18.18	156	3746	0.3785 ug/L		84
85)	1,3,5-Trimethylbenzene	18.26	105	13170	0.4310 ug/L		99
86)	2-Chlorotoluene	18.35	91	12422	0.4421 ug/L		97
87)	4-Chlorotoluene	18.41	91	12206	0.4546 ug/L		95
88)	a-Methylstyrene	18.74	118	6818	0.4019 ug/L		95
89)	tert-Butylbenzene	18.80	134	2807	0.4192 ug/L		95
90)	1,2,4-Trimethylbenzene	18.87	105	13330	0.4259 ug/L		87
91)	sec-Butylbenzene	19.13	105	15988	0.4332 ug/L		96
92)	p-Isopropyltoluene	19.32	119	13490	0.4231 ug/L		98
93)	1,3-Dichlorobenzene	19.53	146	7963	0.4230 ug/L		97
94)	1,4-Dichlorobenzene	19.70	146	7655	0.4010 ug/L		94
95)	n-Butylbenzene	19.94	91	12918	0.4256 ug/L		97
96)	1,2-Dichlorobenzene	20.28	146	7335	0.4115 ug/L		100
98)	1,2,4-Trichlorobenzene	22.82	180	5479	0.4301 ug/L		91
99)	Hexachlorobutadiene	23.02	225	2359	0.4223 ug/L		97
100)	Naphthalene	23.28	128	9845	0.3914 ug/L		97
101)	1,2,3-Trichlorobenzene	23.69	180	5016	0.4190 ug/L		89

(#) = qualifier out of range (m) = manual integration
6M139179.D 8260WTR.M Thu May 12 12:56:11 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051116\6M139179.D Vial: 3
Acq On : 11 May 2016 11:12 Operator: TMB
Sample : WG568265-03 0.4ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051116\6M139179.D Vial: 3
Acq On : 11 May 2016 11:12 Operator: TMB
Sample : WG568265-03 0.4ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	-1.0000	0.3537	0.0	100	0.01
3	P	Chloromethane	-1.0000	0.4713	0.0	100	0.00
4	C	Vinyl Chloride	0.4000	0.4829	-20.7#	100	0.01
5	T	1,3-Butadiene	-1.0000	-1.0000	0.0	0	0.02
6	T	Bromomethane	-1.0000	0.5191	0.0	100	0.00
7	T	Chloroethane	-1.0000	0.4466	0.0	100	0.00
8	T	Trichlorofluoromethane	0.4000	0.3895	2.6	100	0.01
9	T	Diethyl ether	-1.0000	0.1264	0.0	0	0.00
10	T	Isoprene	-1.0000	0.5907	0.0	100	0.01
11	T	Acrolein	-1.0000	0.3591	0.0	0	-0.20
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.0000	0.3289	0.0	100	0.00
13	T	Acetone	-1.0000	-3.7172	0.0	100	0.00
14	C	1,1-Dichloroethene	0.4000	0.4189	-4.7	100	0.00
15	T	Tert-Butyl Alcohol	-1.0000	0.0000	0.0	0	-7.02#
16	T	Dimethyl Sulfide	-1.0000	0.5775	0.0	100	0.00
17	T	Iodomethane	-1.0000	0.0000	0.0	0	-7.44#
18	T	Methyl acetate	-1.0000	0.7350	0.0	100	0.00
19	T	Methylene Chloride	-1.0000	0.4457	0.0	100	0.00
20	T	Carbon Disulfide	-1.0000	0.4307	0.0	100	0.00
21	T	Acrylonitrile	-1.0000	0.0000	0.0	0	-7.92#
22	T	Methyl Tert Butyl Ether	-1.0000	0.3914	0.0	100	0.01
23	T	trans-1,2-Dichloroethene	0.4000	0.3792	5.2	100	0.00
24	T	n-Hexane	-1.0000	0.4762	0.0	100	0.00
25	T	Diisopropyl ether	-1.0000	0.0000	0.0	0	-8.67#
26	T	Vinyl Acetate	-1.0000	0.2776	0.0	100	0.00
27	P	1,1-Dichloroethane	0.4000	0.3952	1.2	100	0.00
28	T	Ethyl-Tert-Butyl ether	-1.0000	0.0000	0.0	0	-9.30#
29	T	2-Butanone	-1.0000	0.8121	0.0	100	-0.01
30	T	Propionitrile	-1.0000	0.0000	0.0	0	-9.64#
31	T	2,2-Dichloropropane	0.4000	0.4155	-3.9	100	0.01
32	T	cis-1,2-Dichloroethene	0.4000	0.3984	0.4	100	0.00
33	C	Chloroform	0.4000	0.4191	-4.8	100	0.00
34		1-Bromopropane	-1.0000	0.0000	0.0	0	-10.21#
35	T	Bromochloromethane	0.4000	0.3229	19.3	100	0.00
36	T	Tetrahydrofuran	-1.0000	-1.2455	0.0	0	0.00
37	S	Dibromofluoromethane	-1.0000	0.0000	0.0	0	-10.39#
38	T	1,1,1-Trichloroethane	0.4000	0.3798	5.0	100	0.01
39	T	Cyclohexane	-1.0000	0.4435	0.0	100	0.00
40	T	1,1-Dichloropropene	-1.0000	0.4188	0.0	100	0.00
41	T	Tert-Amyl-Methyl ether	-1.0000	0.0000	0.0	0	-11.00#
42	T	Carbon Tetrachloride	0.4000	0.3782	5.4	100	-0.01
43	S	1,2-Dichloroethane-d4	-1.0000	0.0000	0.0	0	-11.11#
44		Heptane	-1.0000	0.0000	0.0	0	-11.01#
45	T	1,2-Dichloroethane	0.4000	0.4118	-2.9	100	0.01
46	T	Benzene	0.4000	0.4336	-8.4	100	0.00
47	T	Trichloroethene	0.4000	0.4189	-4.7	100	0.00
48	T	Methylcyclohexane	-1.0000	0.4128	0.0	100	0.01
49	C	1,2-Dichloropropane	0.4000	0.4095	-2.4	100	0.00
50	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-12.72#
51	T	Bromodichloromethane	0.4000	0.3803	4.9	100	0.00
52	T	Dibromomethane	0.4000	0.3527	11.8	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.3648	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.2735	0.0	100	0.01

(#) = Out of Range
6M139179.D 8260WTR.M Thu May 12 12:56:46 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139179.D Vial: 3
Acq On : 11 May 2016 11:12 Operator: TMB
Sample : WG568265-03 0.4ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	0.4000	0.3972	0.7	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.3259	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	-1.0000	0.0000	0.0	0	-13.85#
59	C	Toluene	0.4000	0.4339	-8.5	100	0.00
60	T	Ethyl Methacrylate	-1.0000	0.3797	0.0	100	0.01
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.97#
62	T	trans-1,3-Dichloropropene	-1.0000	0.3481	0.0	100	0.01
63	T	1,1,2-Trichloroethane	0.4000	0.3664	8.4	100	0.00
64	T	2-Hexanone	-1.0000	0.5898	0.0	100	0.00
65	T	1,3-Dichloropropane	0.4000	0.3755	6.1	100	0.00
66	T	Tetrachloroethene	0.4000	0.3921	2.0	100	0.00
67	T	Dibromochloromethane	0.4000	0.3277	18.1	100	0.00
68	T	1,2-Dibromoethane	0.4000	0.3694	7.7	100	0.00
69	T	1-Chlorohexane	0.4000	0.4254	-6.4	100	0.00
70	P	Chlorobenzene	0.4000	0.4206	-5.2	100	0.00
71	T	1,1,1,2-Tetrachloroethane	0.4000	0.3757	6.1	100	0.00
72	C	Ethylbenzene	0.4000	0.3840	4.0	100	0.00
73	T	m-,p-Xylene	0.8000	0.8597	-7.5	100	0.00
74	T	o-Xylene	-1.0000	0.3987	0.0	100	0.00
75	T	Styrene	0.4000	0.3890	2.8	100	0.01
76	P	Bromoform	-1.0000	0.2641	0.0	100	0.00
77	T	Isopropylbenzene	0.4000	0.4250	-6.3	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	0.4000	0.3565	10.9	100	-0.01
80	S	p-Bromofluorobenzene	-1.0000	0.0164	0.0	100	0.01
81	T	1,2,3-Trichloropropane	-1.0000	0.3244	0.0	100	0.01
82	T	trans-1,4-Dichloro-2-Butene	-1.0000	0.2083	0.0	100	0.00
83	T	n-Propylbenzene	0.4000	0.4449	-11.2	100	0.00
84	T	Bromobenzene	0.4000	0.3785	5.4	100	0.00
85	T	1,3,5-Trimethylbenzene	0.4000	0.4310	-7.7	100	0.00
86	T	2-Chlorotoluene	0.4000	0.4421	-10.5	100	0.00
87	T	4-Chlorotoluene	0.4000	0.4546	-13.6	100	0.00
88	T	a-Methylstyrene	-1.0000	0.4019	0.0	100	0.00
89	T	tert-Butylbenzene	-1.0000	0.4192	0.0	100	-0.01
90	T	1,2,4-Trimethylbenzene	-1.0000	0.4259	0.0	100	0.00
91	T	sec-Butylbenzene	-1.0000	0.4332	0.0	100	0.00
92	T	p-Isopropyltoluene	-1.0000	0.4231	0.0	100	0.00
93	T	1,3-Dichlorobenzene	0.4000	0.4230	-5.7	100	0.00
94	T	1,4-Dichlorobenzene	0.4000	0.4010	-0.2	100	0.00
95	T	n-Butylbenzene	-1.0000	0.4256	0.0	100	0.00
96	T	1,2-Dichlorobenzene	0.4000	0.4115	-2.9	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.0000	0.0	0	-21.46#
98	T	1,2,4-Trichlorobenzene	0.4000	0.4301	-7.5	100	0.00
99	T	Hexachlorobutadiene	0.4000	0.4223	-5.6	100	0.00
100	T	Naphthalene	0.4000	0.3914	2.2	100	0.00
101	T	1,2,3-Trichlorobenzene	0.4000	0.4190	-4.8	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1
6M139179.D 8260WTR.M Thu May 12 12:56:46 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051116\6M139180.D Vial: 4
Acq On : 11 May 2016 11:45 Operator: TMB
Sample : WG568265-04 1ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:11 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.57	96	792651	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.07	117	579166	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	310093	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.39	111	4313	0.5183	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	2.08%#		
43) 1,2-Dichloroethane-d4	11.11	65	4674	0.5043	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	2.00%#		
58) Toluene-d8	13.85	98	15848	0.5560	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	2.24%#		
80) p-Bromofluorobenzene	17.85	95	6272	0.5456	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.20%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.44	85	12179	0.9756	ug/L	96
3) Chloromethane	3.94	50	21711	1.2682	ug/L	93
4) Vinyl Chloride	4.17	62	13213	1.2003	ug/L	97
5) 1,3-Butadiene	4.23	54	4252	Below Cal		96
6) Bromomethane	5.09	94	7576	1.2174	ug/L	86
7) Chloroethane	5.24	64	7741	1.1006	ug/L	97
8) Trichlorofluoromethane	5.74	101	14766	1.0572	ug/L	97
9) Diethyl ether	6.29	59	39306	5.3161	ug/L	93
10) Isoprene	6.32	67	8716	1.2497	ug/L	97
11) Acrolein	6.55	56	3210	2.8908	ug/L	88
12) 1,1,2-Trichloro-1,2,2-Trif	6.56	101	8455	1.0598	ug/L	97
13) Acetone	6.65	43	4731	Below Cal		83
14) 1,1-Dichloroethene	6.88	61	15754	1.0899	ug/L	99
15) Tert-Butyl Alcohol	7.02	59	6949	9.6909	ug/L #	55
16) Dimethyl Sulfide	7.18	62	5632	1.1958	ug/L	81
17) Iodomethane	7.44	142	1131	2.0678	ug/L #	32
18) Methyl acetate	7.45	43	9668	1.4313	ug/L #	73
19) Methylene Chloride	7.72	84	9396	1.1005	ug/L	97
20) Carbon Disulfide	7.77	76	15912	1.0639	ug/L	91
21) Acrylonitrile	7.92	53	6963	2.3581	ug/L	86
22) Methyl Tert Butyl Ether	7.96	73	22734	1.0326	ug/L	100
23) trans-1,2-Dichloroethene	8.22	96	8839	1.0694	ug/L	96
24) n-Hexane	8.29	57	10586	1.2138	ug/L	81
25) Diisopropyl ether	8.67	45	178646	5.2841	ug/L	100
26) Vinyl Acetate	8.86	43	9583	0.8207	ug/L #	78
27) 1,1-Dichloroethane	8.89	63	17078	1.0363	ug/L	98
28) Ethyl-Tert-Butyl ether	9.30	59	142962	5.0867	ug/L	99
29) 2-Butanone	9.52	43	5469	1.5204	ug/L #	57
30) Propionitrile	9.63	54	5061	5.1255	ug/L	96
31) 2,2-Dichloropropane	9.75	77	13704	1.1303	ug/L	87
32) cis-1,2-Dichloroethene	9.82	96	9574	1.0486	ug/L	84
33) Chloroform	10.07	83	15903	1.0538	ug/L	94
34) 1-Bromopropane	10.21	122	1004	0.8163	ug/L	84
35) Bromochloromethane	10.32	130	5031	1.0045	ug/L	97
36) Tetrahydrofuran	10.35	42	16784	3.8039	ug/L	93
38) 1,1,1-Trichloroethane	10.66	97	13787	1.0425	ug/L	95
39) Cyclohexane	10.69	56	14315	1.0809	ug/L	96
40) 1,1-Dichloropropene	10.88	75	11883	1.0345	ug/L	87
41) Tert-Amyl-Methyl ether	11.00	73	109901	5.0197	ug/L	98
42) Carbon Tetrachloride	11.05	117	11835	1.0077	ug/L	99

(#) = qualifier out of range (m) = manual integration
6M139180.D 8260WTR.M Thu May 12 12:56:12 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139180.D Vial: 4
Acq On : 11 May 2016 11:45 Operator: TMB
Sample : WG568265-04 1ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:11 2016 Quant Results File: 8260WTR.RES

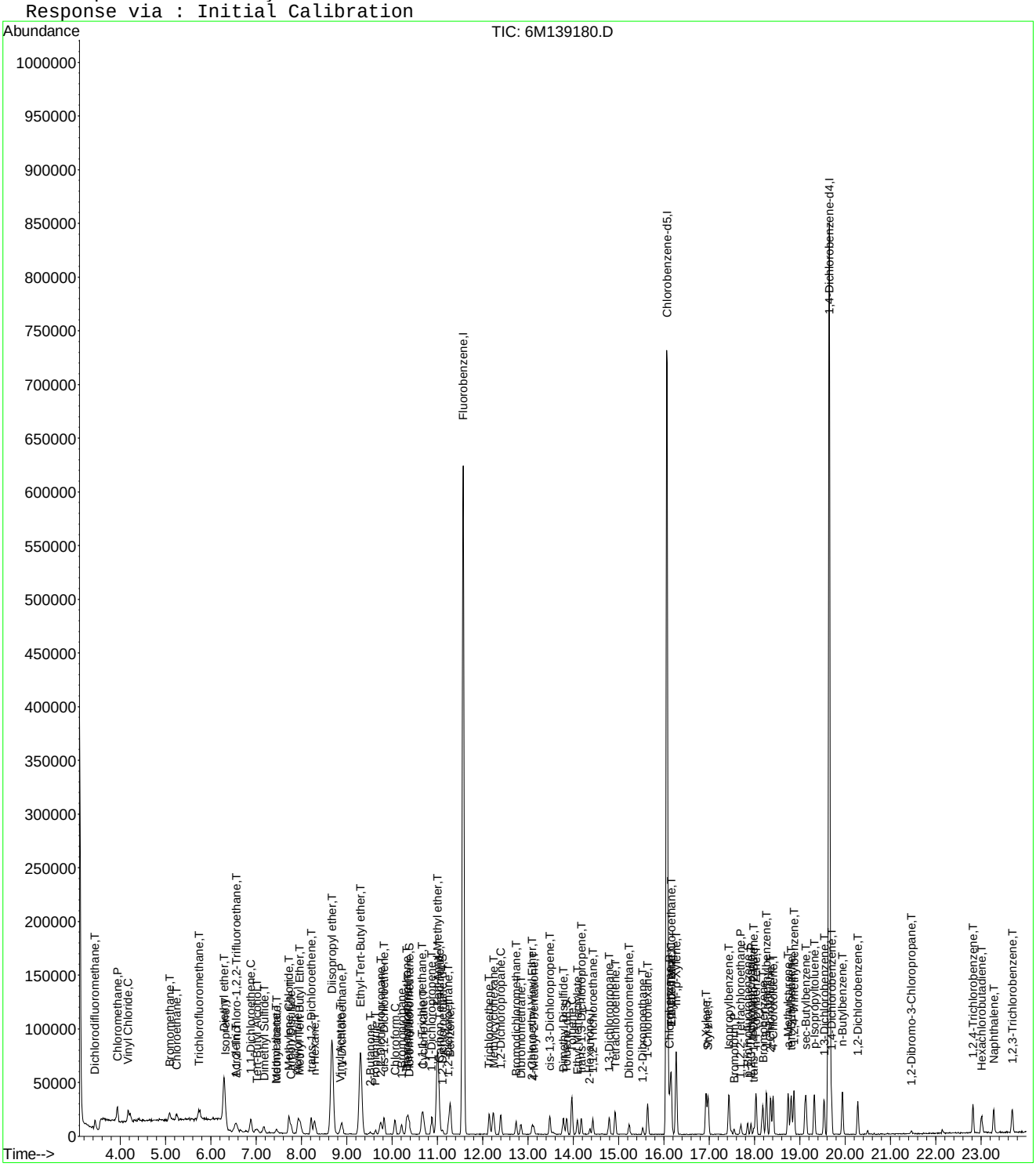
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	1,2-Dichloroethane	11.24	62	11497	0.9921 ug/L #	97
46)	Benzene	11.28	78	36153	1.0924 ug/L	98
47)	Trichloroethene	12.14	130	8907	1.0290 ug/L	94
48)	Methylcyclohexane	12.24	83	12602	1.1056 ug/L	95
49)	1,2-Dichloropropane	12.40	63	9829	1.0583 ug/L	93
51)	Bromodichloromethane	12.74	83	11420	1.0106 ug/L	99
52)	Dibromomethane	12.85	93	4519	0.9657 ug/L	94
53)	2-Chloroethyl Vinyl Ether	13.09	63	4244	0.9302 ug/L	91
54)	4-Methyl-2-Pentanone	13.13	58	2380	0.8549 ug/L	86
55)	cis-1,3-Dichloropropene	13.48	75	13154	0.9929 ug/L	97
56)	Dimethyl Disulfide	13.79	79	6584	0.9031 ug/L	86
59)	Toluene	13.97	91	36757	1.0708 ug/L	99
60)	Ethyl Methacrylate	14.09	69	9604	0.9626 ug/L	85
62)	trans-1,3-Dichloropropene	14.18	75	10905	0.9333 ug/L	96
63)	1,1,2-Trichloroethane	14.43	97	6676	1.0496 ug/L	97
64)	2-Hexanone	14.36	43	6432	1.1545 ug/L	82
65)	1,3-Dichloropropane	14.79	76	12012	1.0621 ug/L	95
66)	Tetrachloroethene	14.93	166	9681	1.0838 ug/L	94
67)	Dibromochloromethane	15.24	129	7329	0.9400 ug/L	96
68)	1,2-Dibromoethane	15.53	107	6285	1.0074 ug/L	96
69)	1-Chlorohexane	15.64	91	12081	1.0220 ug/L	94
70)	Chlorobenzene	16.12	112	23810	1.0468 ug/L	99
71)	1,1,1,2-Tetrachloroethane	16.16	131	8108	0.9784 ug/L	98
72)	Ethylbenzene	16.16	106	12326	1.0016 ug/L	86
73)	m-,p-Xylene	16.27	106	31451	2.1257 ug/L	96
74)	o-Xylene	16.93	106	15881	1.0834 ug/L	96
75)	Styrene	16.97	104	25864	1.0213 ug/L	98
76)	Bromoform	17.55	173	4337	0.8671 ug/L #	87
77)	Isopropylbenzene	17.43	105	39714	1.0715 ug/L	100
79)	1,1,2,2-Tetrachloroethane	17.70	83	7728	1.0371 ug/L	99
81)	1,2,3-Trichloropropane	17.92	110	2176	1.0020 ug/L	64
82)	trans-1,4-Dichloro-2-Buten	17.98	53	2197	0.8353 ug/L	91
83)	n-Propylbenzene	18.03	91	48834	1.1415 ug/L	97
84)	Bromobenzene	18.19	156	10613	1.0609 ug/L	96
85)	1,3,5-Trimethylbenzene	18.26	105	33513	1.0849 ug/L	98
86)	2-Chlorotoluene	18.35	91	30600	1.0775 ug/L	99
87)	4-Chlorotoluene	18.41	91	30056	1.1074 ug/L	98
88)	a-Methylstyrene	18.74	118	17257	1.0062 ug/L	99
89)	tert-Butylbenzene	18.81	134	7125	1.0526 ug/L	95
90)	1,2,4-Trimethylbenzene	18.87	105	34381	1.0866 ug/L	99
91)	sec-Butylbenzene	19.13	105	40900	1.0964 ug/L	100
92)	p-Isopropyltoluene	19.32	119	34593	1.0733 ug/L	99
93)	1,3-Dichlorobenzene	19.54	146	20061	1.0542 ug/L	97
94)	1,4-Dichlorobenzene	19.70	146	20771	1.0764 ug/L	93
95)	n-Butylbenzene	19.94	91	33680	1.0976 ug/L	98
96)	1,2-Dichlorobenzene	20.28	146	18936	1.0510 ug/L	99
97)	1,2-Dibromo-3-Chloropropan	21.46	75	1282	0.9158 ug/L	87
98)	1,2,4-Trichlorobenzene	22.82	180	12669	0.9839 ug/L	98
99)	Hexachlorobutadiene	23.02	225	5669	1.0041 ug/L	90
100)	Naphthalene	23.28	128	26232	1.0316 ug/L	96
101)	1,2,3-Trichlorobenzene	23.69	180	12370	1.0223 ug/L	97

(#) = qualifier out of range (m) = manual integration
6M139180.D 8260WTR.M Thu May 12 12:56:12 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051116\6M139180.D Vial: 4
Acq On : 11 May 2016 11:45 Operator: TMB
Sample : WG568265-04 1ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051116\6M139180.D Vial: 4
Acq On : 11 May 2016 11:45 Operator: TMB
Sample : WG568265-04 1ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	1.0000	0.9757	2.4	100	0.00
3	P	Chloromethane	1.0000	1.2682	-26.8#	100	0.00
4	C	Vinyl Chloride	1.0000	1.2003	-20.0#	100	0.00
5	T	1,3-Butadiene	-1.0000	-1.0000	0.0	0	0.03
6	T	Bromomethane	1.0000	1.2174	-21.7#	100	0.00
7	T	Chloroethane	1.0000	1.1006	-10.1	100	0.00
8	T	Trichlorofluoromethane	1.0000	1.0572	-5.7	100	0.00
9	T	Diethyl ether	5.0000	5.3161	-6.3	100	0.00
10	T	Isoprene	-1.0000	1.2497	0.0	100	0.00
11	T	Acrolein	-1.0000	2.8908	0.0	0	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	1.0000	1.0598	-6.0	100	0.00
13	T	Acetone	-1.0000	-2.5954	0.0	100	-0.01
14	C	1,1-Dichloroethene	1.0000	1.0899	-9.0	100	0.00
15	T	Tert-Butyl Alcohol	10.0000	9.6909	3.1	100	0.00
16	T	Dimethyl Sulfide	-1.0000	1.1958	0.0	100	0.00
17	T	Iodomethane	-1.0000	2.0678	0.0	0	0.00
18	T	Methyl acetate	-1.0000	1.4313	0.0	100	0.00
19	T	Methylene Chloride	1.0000	1.1005	-10.1	100	0.00
20	T	Carbon Disulfide	1.0000	1.0639	-6.4	100	0.00
21	T	Acrylonitrile	2.5000	2.3581	5.7	100	0.00
22	T	Methyl Tert Butyl Ether	1.0000	1.0326	-3.3	100	0.00
23	T	trans-1,2-Dichloroethene	1.0000	1.0694	-6.9	100	0.00
24	T	n-Hexane	-1.0000	1.2138	0.0	100	0.00
25	T	Diisopropyl ether	5.0000	5.2841	-5.7	100	0.00
26	T	Vinyl Acetate	-1.0000	0.8207	0.0	100	0.00
27	P	1,1-Dichloroethane	1.0000	1.0363	-3.6	100	0.00
28	T	Ethyl-Tert-Butyl ether	5.0000	5.0867	-1.7	100	0.00
29	T	2-Butanone	-1.0000	1.5204	0.0	100	0.00
30	T	Propionitrile	5.0000	5.1255	-2.5	100	-0.01
31	T	2,2-Dichloropropane	1.0000	1.1303	-13.0	100	0.00
32	T	cis-1,2-Dichloroethene	1.0000	1.0486	-4.9	100	0.00
33	C	Chloroform	1.0000	1.0538	-5.4	100	0.00
34		1-Bromopropane	1.0000	0.8163	18.4	100	0.00
35	T	Bromochloromethane	1.0000	1.0045	-0.4	100	0.00
36	T	Tetrahydrofuran	5.0000	3.8039	23.9#	100	0.00
37	S	Dibromofluoromethane	-1.0000	0.5183	0.0	100	0.00
38	T	1,1,1-Trichloroethane	1.0000	1.0425	-4.3	100	0.00
39	T	Cyclohexane	1.0000	1.0809	-8.1	100	0.00
40	T	1,1-Dichloropropene	1.0000	1.0345	-3.5	100	0.00
41	T	Tert-Amyl-Methyl ether	5.0000	5.0197	-0.4	100	0.00
42	T	Carbon Tetrachloride	1.0000	1.0077	-0.8	100	0.00
43	S	1,2-Dichloroethane-d4	-1.0000	0.5043	0.0	100	0.00
44		Heptane	-1.0000	0.0000	0.0	100	0.00
45	T	1,2-Dichloroethane	1.0000	0.9921	0.8	100	0.00
46	T	Benzene	1.0000	1.0924	-9.2	100	0.00
47	T	Trichloroethene	1.0000	1.0290	-2.9	100	0.00
48	T	Methylcyclohexane	-1.0000	1.1056	0.0	100	0.00
49	C	1,2-Dichloropropane	1.0000	1.0583	-5.8	100	0.00
50	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-12.72#
51	T	Bromodichloromethane	1.0000	1.0107	-1.1	100	0.00
52	T	Dibromomethane	1.0000	0.9657	3.4	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.9302	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.8549	0.0	100	0.00

(#) = Out of Range
6M139180.D 8260WTR.M Thu May 12 12:56:56 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139180.D Vial: 4
Acq On : 11 May 2016 11:45 Operator: TMB
Sample : WG568265-04 1ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	1.0000	0.9929	0.7	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.9031	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	-1.0000	0.5560	0.0	100	0.00
59	C	Toluene	1.0000	1.0708	-7.1	100	0.00
60	T	Ethyl Methacrylate	1.0000	0.9626	3.7	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	100	0.00
62	T	trans-1,3-Dichloropropene	1.0000	0.9333	6.7	100	0.00
63	T	1,1,2-Trichloroethane	1.0000	1.0496	-5.0	100	0.00
64	T	2-Hexanone	-1.0000	1.1545	0.0	100	0.00
65	T	1,3-Dichloropropane	1.0000	1.0621	-6.2	100	0.00
66	T	Tetrachloroethene	1.0000	1.0838	-8.4	100	0.00
67	T	Dibromochloromethane	1.0000	0.9400	6.0	100	0.00
68	T	1,2-Dibromoethane	1.0000	1.0075	-0.7	100	0.00
69	T	1-Chlorohexane	1.0000	1.0220	-2.2	100	0.00
70	P	Chlorobenzene	1.0000	1.0468	-4.7	100	0.00
71	T	1,1,1,2-Tetrachloroethane	1.0000	0.9784	2.2	100	0.00
72	C	Ethylbenzene	1.0000	1.0016	-0.2	100	0.00
73	T	m-,p-Xylene	2.0000	2.1257	-6.3	100	0.00
74	T	o-Xylene	1.0000	1.0835	-8.3	100	0.00
75	T	Styrene	1.0000	1.0213	-2.1	100	0.00
76	P	Bromoform	1.0000	0.8671	13.3	100	0.00
77	T	Isopropylbenzene	1.0000	1.0715	-7.2	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	1.0000	1.0371	-3.7	100	0.00
80	S	p-Bromofluorobenzene	-1.0000	0.5456	0.0	100	0.00
81	T	1,2,3-Trichloropropane	1.0000	1.0020	-0.2	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	1.0000	0.8353	16.5	100	0.00
83	T	n-Propylbenzene	1.0000	1.1415	-14.2	100	0.00
84	T	Bromobenzene	1.0000	1.0609	-6.1	100	0.00
85	T	1,3,5-Trimethylbenzene	1.0000	1.0850	-8.5	100	0.00
86	T	2-Chlorotoluene	1.0000	1.0775	-7.7	100	0.00
87	T	4-Chlorotoluene	1.0000	1.1074	-10.7	100	0.00
88	T	a-Methylstyrene	-1.0000	1.0062	0.0	100	0.00
89	T	tert-Butylbenzene	1.0000	1.0526	-5.3	100	0.00
90	T	1,2,4-Trimethylbenzene	1.0000	1.0866	-8.7	100	0.00
91	T	sec-Butylbenzene	1.0000	1.0964	-9.6	100	0.00
92	T	p-Isopropyltoluene	1.0000	1.0733	-7.3	100	0.00
93	T	1,3-Dichlorobenzene	1.0000	1.0542	-5.4	100	0.00
94	T	1,4-Dichlorobenzene	1.0000	1.0764	-7.6	100	0.00
95	T	n-Butylbenzene	1.0000	1.0976	-9.8	100	0.00
96	T	1,2-Dichlorobenzene	1.0000	1.0510	-5.1	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.9158	0.0	100	0.00
98	T	1,2,4-Trichlorobenzene	1.0000	0.9839	1.6	100	0.00
99	T	Hexachlorobutadiene	1.0000	1.0041	-0.4	100	0.00
100	T	Naphthalene	1.0000	1.0316	-3.2	100	0.00
101	T	1,2,3-Trichlorobenzene	1.0000	1.0223	-2.2	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 1
6M139180.D 8260WTR.M Thu May 12 12:56:56 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051116\6M139181.D Vial: 5
Acq On : 11 May 2016 12:16 Operator: TMB
Sample : WG568265-05 2ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:12 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	784533	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.07	117	566425	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	308839	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.38	111	8544	1.0374 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	4.16%#	
43) 1,2-Dichloroethane-d4	11.11	65	9286	1.0123 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	4.04%#	
58) Toluene-d8	13.85	98	29049	1.0421 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	4.16%#	
80) p-Bromofluorobenzene	17.84	95	12178	1.0638 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	4.24%#	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.44	85	23967	1.9398 ug/L	96
3) Chloromethane	3.94	50	35265	2.0813 ug/L	88
4) Vinyl Chloride	4.17	62	22874	2.0994 ug/L	100
5) 1,3-Butadiene	4.22	54	6148	0.8058 ug/L	84
6) Bromomethane	5.08	94	12667	2.0565 ug/L	94
7) Chloroethane	5.24	64	14443	2.0747 ug/L	100
8) Trichlorofluoromethane	5.74	101	27933	2.0205 ug/L	98
9) Diethyl ether	6.29	59	187514	25.6235 ug/L	99
10) Isoprene	6.32	67	13979	2.0251 ug/L	96
11) Acrolein	6.54	56	14339	13.0467 ug/L	94
12) 1,1,2-Trichloro-1,2,2-Trif	6.56	101	16079	2.0362 ug/L	99
13) Acetone	6.66	43	9924	Below Cal	80
14) 1,1-Dichloroethene	6.88	61	28688	2.0052 ug/L	97
15) Tert-Butyl Alcohol	7.01	59	36735	51.7599 ug/L	94
16) Dimethyl Sulfide	7.17	62	10482	2.2486 ug/L	90
17) Iodomethane	7.44	142	2574	2.4066 ug/L #	70
18) Methyl acetate	7.45	43	17127	2.5619 ug/L #	88
19) Methylene Chloride	7.72	84	17843	2.1116 ug/L	99
20) Carbon Disulfide	7.77	76	30753	2.0775 ug/L	100
21) Acrylonitrile	7.92	53	36777	12.5839 ug/L	98
22) Methyl Tert Butyl Ether	7.95	73	44740	2.0532 ug/L	98
23) trans-1,2-Dichloroethene	8.21	96	17244	2.1079 ug/L	100
24) n-Hexane	8.28	57	19457	2.2541 ug/L	93
25) Diisopropyl ether	8.67	45	885124	26.4516 ug/L	100
26) Vinyl Acetate	8.86	43	18599	1.6093 ug/L	93
27) 1,1-Dichloroethane	8.89	63	33571	2.0583 ug/L	99
28) Ethyl-Tert-Butyl ether	9.30	59	725691	26.0876 ug/L	100
29) 2-Butanone	9.52	43	8923	2.5062 ug/L #	82
30) Propionitrile	9.64	54	25148	25.7322 ug/L	99
31) 2,2-Dichloropropane	9.75	77	25590	2.1325 ug/L	90
32) cis-1,2-Dichloroethene	9.82	96	18694	2.0686 ug/L	98
33) Chloroform	10.06	83	31054	2.0791 ug/L	98
34) 1-Bromopropane	10.21	122	2041	1.6766 ug/L	96
35) Bromochloromethane	10.32	130	10177	2.0530 ug/L	96
36) Tetrahydrofuran	10.35	42	64221	25.5345 ug/L	98
38) 1,1,1-Trichloroethane	10.65	97	26610	2.0330 ug/L	96
39) Cyclohexane	10.69	56	26925	2.0541 ug/L	96
40) 1,1-Dichloropropene	10.87	75	23273	2.0471 ug/L	95
41) Tert-Amyl-Methyl ether	11.00	73	560773	25.8782 ug/L	99
42) Carbon Tetrachloride	11.05	117	23080	1.9855 ug/L	99

(#) = qualifier out of range (m) = manual integration
6M139181.D 8260WTR.M Thu May 12 12:56:13 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139181.D Vial: 5
Acq On : 11 May 2016 12:16 Operator: TMB
Sample : WG568265-05 2ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:12 2016 Quant Results File: 8260WTR.RES

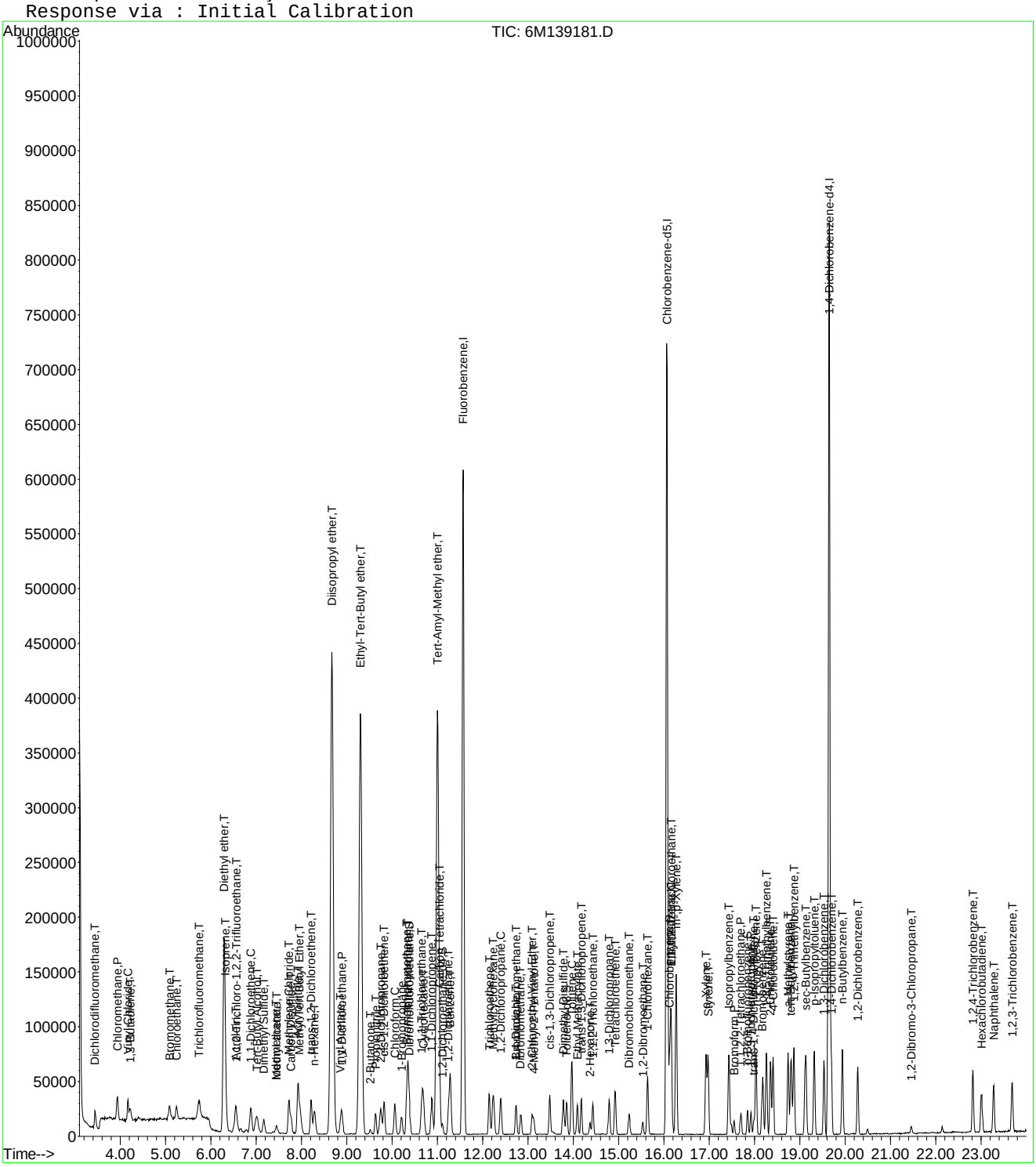
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	1,2-Dichloroethane	11.24	62	23276	2.0292	ug/L	99
46)	Benzene	11.28	78	68321	2.0858	ug/L	99
47)	Trichloroethene	12.15	130	17539	2.0472	ug/L	98
48)	Methylcyclohexane	12.23	83	24041	2.1311	ug/L	98
49)	1,2-Dichloropropane	12.40	63	18651	2.0289	ug/L	97
50)	1,4-Dioxane	12.73	88	2971	46.5411	ug/L	90
51)	Bromodichloromethane	12.74	83	22531	2.0146	ug/L	100
52)	Dibromomethane	12.84	93	9657	2.0850	ug/L	98
53)	2-Chloroethyl Vinyl Ether	13.09	63	8792	1.9470	ug/L	97
54)	4-Methyl-2-Pentanone	13.13	58	5305	1.9252	ug/L	98
55)	cis-1,3-Dichloropropene	13.48	75	26647	2.0322	ug/L	98
56)	Dimethyl Disulfide	13.78	79	12805	1.7747	ug/L	98
59)	Toluene	13.97	91	70880	2.1113	ug/L	100
60)	Ethyl Methacrylate	14.09	69	19469	1.9953	ug/L	97
62)	trans-1,3-Dichloropropene	14.18	75	22779	1.9933	ug/L	99
63)	1,1,2-Trichloroethane	14.43	97	12834	2.0631	ug/L	98
64)	2-Hexanone	14.37	43	12550	2.3033	ug/L	91
65)	1,3-Dichloropropane	14.79	76	23409	2.1163	ug/L	95
66)	Tetrachloroethene	14.93	166	18262	2.0903	ug/L	97
67)	Dibromochloromethane	15.23	129	14989	1.9656	ug/L	99
68)	1,2-Dibromoethane	15.54	107	12134	1.9888	ug/L	95
69)	1-Chlorohexane	15.64	91	24197	2.0930	ug/L	97
70)	Chlorobenzene	16.12	112	45883	2.0626	ug/L	84
71)	1,1,1,2-Tetrachloroethane	16.16	131	15892	1.9609	ug/L	99
72)	Ethylbenzene	16.16	106	25023	2.0792	ug/L	99
73)	m-,p-Xylene	16.27	106	60368	4.1719	ug/L	98
74)	o-Xylene	16.93	106	29152	2.0336	ug/L	94
75)	Styrene	16.98	104	50540	2.0405	ug/L	99
76)	Bromoform	17.55	173	8431	1.7235	ug/L	95
77)	Isopropylbenzene	17.43	105	76038	2.0978	ug/L	99
79)	1,1,2,2-Tetrachloroethane	17.70	83	15302	2.0618	ug/L	97
81)	1,2,3-Trichloropropane	17.92	110	4194	1.9391	ug/L	74
82)	trans-1,4-Dichloro-2-Buten	17.98	53	4643	1.7725	ug/L	99
83)	n-Propylbenzene	18.03	91	93222	2.1880	ug/L	98
84)	Bromobenzene	18.18	156	20646	2.0721	ug/L	98
85)	1,3,5-Trimethylbenzene	18.26	105	64709	2.1034	ug/L	99
86)	2-Chlorotoluene	18.35	91	58664	2.0740	ug/L	99
87)	4-Chlorotoluene	18.41	91	56406	2.0866	ug/L	99
88)	a-Methylstyrene	18.74	118	33613	1.9679	ug/L	100
89)	tert-Butylbenzene	18.80	134	13850	2.0544	ug/L	75
90)	1,2,4-Trimethylbenzene	18.87	105	66514	2.1107	ug/L	99
91)	sec-Butylbenzene	19.13	105	79269	2.1336	ug/L	97
92)	p-Isopropyltoluene	19.32	119	67362	2.0984	ug/L	100
93)	1,3-Dichlorobenzene	19.53	146	39491	2.0836	ug/L	100
94)	1,4-Dichlorobenzene	19.70	146	39086	2.0337	ug/L	85
95)	n-Butylbenzene	19.94	91	64243	2.1021	ug/L	98
96)	1,2-Dichlorobenzene	20.28	146	36552	2.0370	ug/L	100
97)	1,2-Dibromo-3-Chloropropan	21.46	75	2666	1.9121	ug/L	95
98)	1,2,4-Trichlorobenzene	22.82	180	26232	2.0455	ug/L	99
99)	Hexachlorobutadiene	23.02	225	12496	2.2222	ug/L	97
100)	Naphthalene	23.28	128	51153	2.0199	ug/L	100
101)	1,2,3-Trichlorobenzene	23.69	180	23903	1.9834	ug/L	98

(#) = qualifier out of range (m) = manual integration
6M139181.D 8260WTR.M Thu May 12 12:56:13 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051116\6M139181.D Vial: 5
Acq On : 11 May 2016 12:16 Operator: TMB
Sample : WG568265-05 2ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051116\6M139181.D Vial: 5
Acq On : 11 May 2016 12:16 Operator: TMB
Sample : WG568265-05 2ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	2.0000	1.9398	3.0	100	0.00
3	P	Chloromethane	2.0000	2.0813	-4.1	100	0.00
4	C	Vinyl Chloride	2.0000	2.0994	-5.0	100	0.00
5	T	1,3-Butadiene	-1.0000	0.8058	0.0	0	0.02
6	T	Bromomethane	2.0000	2.0565	-2.8	100	0.00
7	T	Chloroethane	2.0000	2.0747	-3.7	100	0.00
8	T	Trichlorofluoromethane	2.0000	2.0205	-1.0	100	0.00
9	T	Diethyl ether	25.0000	25.6235	-2.5	100	0.00
10	T	Isoprene	-1.0000	2.0251	0.0	100	0.00
11	T	Acrolein	12.5000	13.0467	-4.4	100	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	2.0000	2.0362	-1.8	100	0.00
13	T	Acetone	-1.0000	-0.1597	0.0	100	0.00
14	C	1,1-Dichloroethene	2.0000	2.0052	-0.3	100	0.00
15	T	Tert-Butyl Alcohol	50.0000	51.7599	-3.5	100	0.00
16	T	Dimethyl Sulfide	-1.0000	2.2486	0.0	100	0.00
17	T	Iodomethane	2.0000	2.4066	-20.3#	100	0.00
18	T	Methyl acetate	-1.0000	2.5619	0.0	100	0.00
19	T	Methylene Chloride	2.0000	2.1115	-5.6	100	0.00
20	T	Carbon Disulfide	2.0000	2.0775	-3.9	100	0.00
21	T	Acrylonitrile	12.5000	12.5839	-0.7	100	0.00
22	T	Methyl Tert Butyl Ether	2.0000	2.0532	-2.7	100	0.00
23	T	trans-1,2-Dichloroethene	2.0000	2.1079	-5.4	100	0.00
24	T	n-Hexane	-1.0000	2.2541	0.0	100	-0.01
25	T	Diisopropyl ether	25.0000	26.4516	-5.8	100	0.00
26	T	Vinyl Acetate	-1.0000	1.6093	0.0	100	0.00
27	P	1,1-Dichloroethane	2.0000	2.0583	-2.9	100	0.00
28	T	Ethyl-Tert-Butyl ether	25.0000	26.0876	-4.4	100	0.00
29	T	2-Butanone	-1.0000	2.5062	0.0	100	0.00
30	T	Propionitrile	25.0000	25.7322	-2.9	100	0.00
31	T	2,2-Dichloropropane	2.0000	2.1325	-6.6	100	0.00
32	T	cis-1,2-Dichloroethene	2.0000	2.0686	-3.4	100	0.00
33	C	Chloroform	2.0000	2.0791	-4.0	100	0.00
34		1-Bromopropane	2.0000	1.6766	16.2	100	0.00
35	T	Bromochloromethane	2.0000	2.0530	-2.6	100	0.00
36	T	Tetrahydrofuran	25.0000	25.5345	-2.1	100	0.00
37	S	Dibromofluoromethane	1.0000	1.0374	-3.7	100	0.00
38	T	1,1,1-Trichloroethane	2.0000	2.0330	-1.6	100	0.00
39	T	Cyclohexane	2.0000	2.0541	-2.7	100	0.00
40	T	1,1-Dichloropropene	2.0000	2.0471	-2.4	100	0.00
41	T	Tert-Amyl-Methyl ether	25.0000	25.8782	-3.5	100	0.00
42	T	Carbon Tetrachloride	2.0000	1.9855	0.7	100	0.00
43	S	1,2-Dichloroethane-d4	1.0000	1.0123	-1.2	100	0.00
44		Heptane	-1.0000	0.0000	0.0	100	-0.01
45	T	1,2-Dichloroethane	2.0000	2.0292	-1.5	100	0.00
46	T	Benzene	2.0000	2.0858	-4.3	100	0.00
47	T	Trichloroethene	2.0000	2.0471	-2.4	100	0.00
48	T	Methylcyclohexane	-1.0000	2.1311	0.0	100	0.00
49	C	1,2-Dichloropropane	2.0000	2.0289	-1.4	100	0.00
50	T	1,4-Dioxane	-1.0000	46.5411	0.0	0	0.00
51	T	Bromodichloromethane	2.0000	2.0146	-0.7	100	0.00
52	T	Dibromomethane	2.0000	2.0850	-4.2	100	0.00
53	T	2-Chloroethyl Vinyl Ether	2.0000	1.9470	2.7	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	1.9252	0.0	100	0.00

(#) = Out of Range
6M139181.D 8260WTR.M Thu May 12 12:57:05 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139181.D Vial: 5
Acq On : 11 May 2016 12:16 Operator: TMB
Sample : WG568265-05 2ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	2.0000	2.0322	-1.6	100	0.00
56	T	Dimethyl Disulfide	-1.0000	1.7747	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	1.0000	1.0421	-4.2	100	0.00
59	C	Toluene	2.0000	2.1113	-5.6	100	0.00
60	T	Ethyl Methacrylate	2.0000	1.9953	0.2	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	100	-0.01
62	T	trans-1,3-Dichloropropene	2.0000	1.9933	0.3	100	0.00
63	T	1,1,2-Trichloroethane	2.0000	2.0631	-3.2	100	0.00
64	T	2-Hexanone	-1.0000	2.3033	0.0	100	0.00
65	T	1,3-Dichloropropane	2.0000	2.1163	-5.8	100	0.00
66	T	Tetrachloroethene	2.0000	2.0903	-4.5	100	0.00
67	T	Dibromochloromethane	2.0000	1.9656	1.7	100	0.00
68	T	1,2-Dibromoethane	2.0000	1.9888	0.6	100	0.00
69	T	1-Chlorohexane	2.0000	2.0930	-4.7	100	0.00
70	P	Chlorobenzene	2.0000	2.0626	-3.1	100	0.00
71	T	1,1,1,2-Tetrachloroethane	2.0000	1.9609	2.0	100	0.00
72	C	Ethylbenzene	2.0000	2.0792	-4.0	100	0.00
73	T	m-,p-Xylene	4.0000	4.1719	-4.3	100	0.00
74	T	o-Xylene	2.0000	2.0336	-1.7	100	0.00
75	T	Styrene	2.0000	2.0405	-2.0	100	0.00
76	P	Bromoform	2.0000	1.7235	13.8	100	0.00
77	T	Isopropylbenzene	2.0000	2.0978	-4.9	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	2.0000	2.0618	-3.1	100	0.00
80	S	p-Bromofluorobenzene	1.0000	1.0638	-6.4	100	0.00
81	T	1,2,3-Trichloropropane	2.0000	1.9391	3.0	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	2.0000	1.7725	11.4	100	0.00
83	T	n-Propylbenzene	2.0000	2.1880	-9.4	100	0.00
84	T	Bromobenzene	2.0000	2.0721	-3.6	100	0.00
85	T	1,3,5-Trimethylbenzene	2.0000	2.1034	-5.2	100	0.00
86	T	2-Chlorotoluene	2.0000	2.0740	-3.7	100	0.00
87	T	4-Chlorotoluene	2.0000	2.0866	-4.3	100	0.00
88	T	a-Methylstyrene	-1.0000	1.9679	0.0	100	0.00
89	T	tert-Butylbenzene	2.0000	2.0544	-2.7	100	-0.01
90	T	1,2,4-Trimethylbenzene	2.0000	2.1107	-5.5	100	0.00
91	T	sec-Butylbenzene	2.0000	2.1336	-6.7	100	0.00
92	T	p-Isopropyltoluene	2.0000	2.0984	-4.9	100	0.00
93	T	1,3-Dichlorobenzene	2.0000	2.0836	-4.2	100	0.00
94	T	1,4-Dichlorobenzene	2.0000	2.0337	-1.7	100	0.00
95	T	n-Butylbenzene	2.0000	2.1021	-5.1	100	0.00
96	T	1,2-Dichlorobenzene	2.0000	2.0370	-1.8	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	2.0000	1.9122	4.4	100	0.00
98	T	1,2,4-Trichlorobenzene	2.0000	2.0455	-2.3	100	0.00
99	T	Hexachlorobutadiene	2.0000	2.2222	-11.1	100	0.00
100	T	Naphthalene	2.0000	2.0199	-1.0	100	0.00
101	T	1,2,3-Trichlorobenzene	2.0000	1.9834	0.8	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M139181.D 8260WTR.M Thu May 12 12:57:05 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051116\6M139182.D Vial: 6
Acq On : 11 May 2016 12:48 Operator: TMB
Sample : WG568265-06 5ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:13 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.56	96	784317	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.07	117	571879	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.64	152	313055	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.39	111	20434	2.4819	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 9.92%#			
43) 1,2-Dichloroethane-d4	11.11	65	23765	2.5915	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 10.36%#			
58) Toluene-d8	13.85	98	70235	2.4955	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 10.00%#			
80) p-Bromofluorobenzene	17.84	95	29589	2.5498	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 10.20%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.44	85	57866	4.6849	ug/L	99
3) Chloromethane	3.93	50	83851	4.9502	ug/L	96
4) Vinyl Chloride	4.16	62	52930	4.8593	ug/L	100
5) 1,3-Butadiene	4.21	54	9609	4.0196	ug/L	84
6) Bromomethane	5.08	94	29793	4.8382	ug/L	98
7) Chloroethane	5.24	64	34154	4.9074	ug/L	100
8) Trichlorofluoromethane	5.74	101	67091	4.8544	ug/L	98
9) Diethyl ether	6.29	59	354290	48.4266	ug/L	100
10) Isoprene	6.32	67	33456	4.8480	ug/L	98
11) Acrolein	6.55	56	27895	25.3880	ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.55	101	39251	4.9721	ug/L	99
13) Acetone	6.66	43	18701	3.9213	ug/L	95
14) 1,1-Dichloroethene	6.89	61	70737	4.9457	ug/L	100
15) Tert-Butyl Alcohol	7.01	59	72854	102.6800	ug/L	97
16) Dimethyl Sulfide	7.17	62	23965	5.1423	ug/L	97
17) Iodomethane	7.45	142	9304	3.9748	ug/L	99
18) Methyl acetate	7.45	43	39009	5.8366	ug/L	94
19) Methylene Chloride	7.72	84	42119	4.9858	ug/L	99
20) Carbon Disulfide	7.77	76	73171	4.9443	ug/L	100
21) Acrylonitrile	7.93	53	70002	23.9590	ug/L	92
22) Methyl Tert Butyl Ether	7.96	73	111589	5.1224	ug/L	99
23) trans-1,2-Dichloroethene	8.21	96	39587	4.8405	ug/L	95
24) n-Hexane	8.28	57	46754	5.4180	ug/L	96
25) Diisopropyl ether	8.67	45	1658197	49.5682	ug/L	100
26) Vinyl Acetate	8.86	43	54317	4.7011	ug/L	97
27) 1,1-Dichloroethane	8.90	63	81893	5.0223	ug/L	100
28) Ethyl-Tert-Butyl ether	9.31	59	1372500	49.3531	ug/L	100
29) 2-Butanone	9.51	43	20429	5.7395	ug/L	91
30) Propionitrile	9.63	54	49875	51.0476	ug/L	100
31) 2,2-Dichloropropane	9.74	77	63268	5.2737	ug/L	95
32) cis-1,2-Dichloroethene	9.83	96	44454	4.9205	ug/L	96
33) Chloroform	10.06	83	72273	4.8400	ug/L	99
34) 1-Bromopropane	10.21	122	6342	5.2110	ug/L	91
35) Bromochloromethane	10.33	130	25378	5.1209	ug/L	100
36) Tetrahydrofuran	10.36	42	119875	50.9523	ug/L	98
38) 1,1,1-Trichloroethane	10.65	97	64706	4.9448	ug/L	99
39) Cyclohexane	10.68	56	65366	4.9881	ug/L	99
40) 1,1-Dichloropropene	10.88	75	56728	4.9913	ug/L	97
41) Tert-Amyl-Methyl ether	11.00	73	1067848	49.2919	ug/L	100
42) Carbon Tetrachloride	11.04	117	55925	4.8124	ug/L	98

(#) = qualifier out of range (m) = manual integration
6M139182.D 8260WTR.M Thu May 12 12:56:13 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139182.D Vial: 6
Acq On : 11 May 2016 12:48 Operator: TMB
Sample : WG568265-06 5ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:13 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

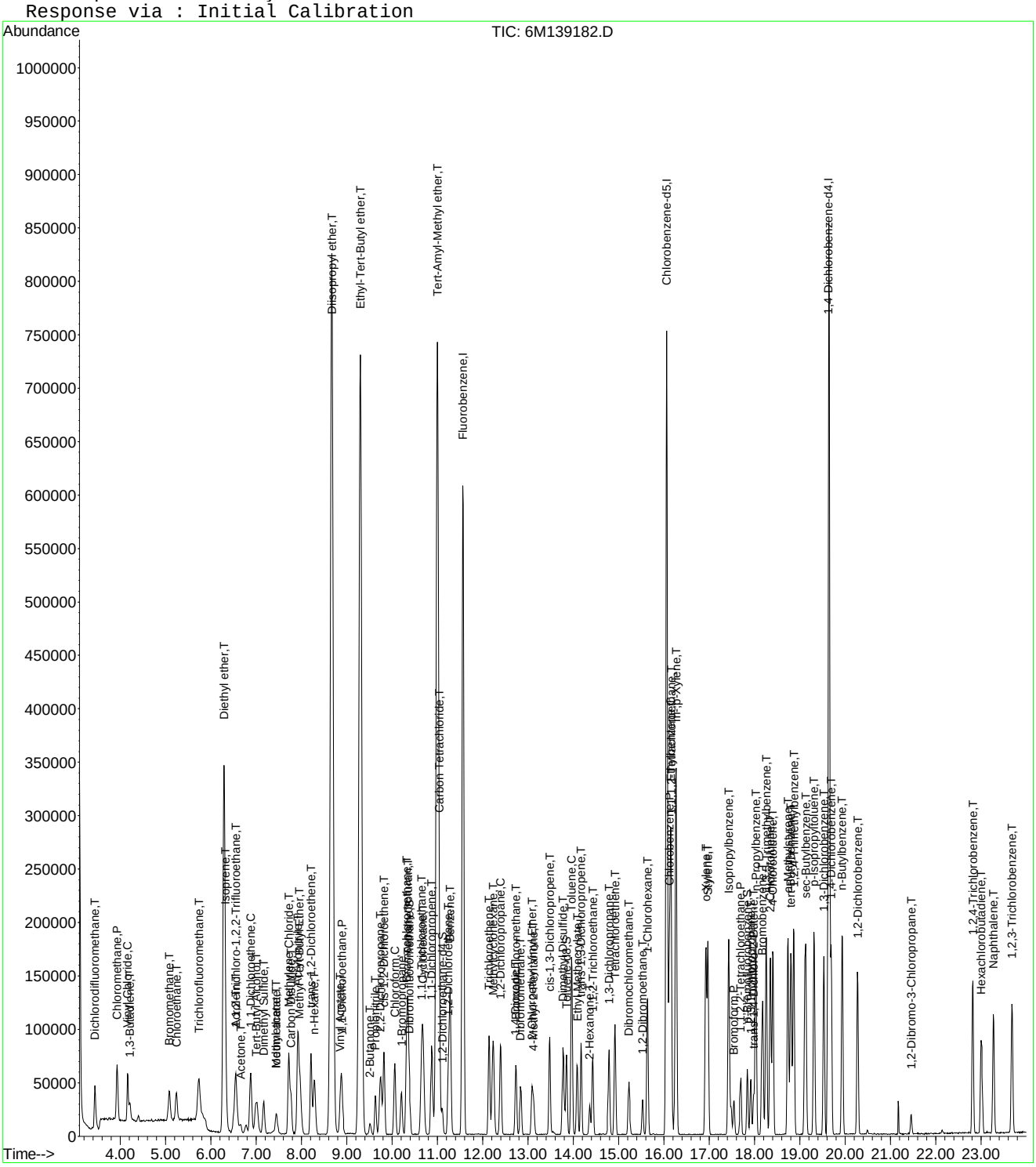
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	1,2-Dichloroethane	11.25	62	58247	5.0795	ug/L	99
46)	Benzene	11.29	78	166964	5.0987	ug/L	98
47)	Trichloroethene	12.14	130	42346	4.9440	ug/L	98
48)	Methylcyclohexane	12.24	83	57612	5.1083	ug/L	99
49)	1,2-Dichloropropane	12.39	63	45757	4.9790	ug/L	99
50)	1,4-Dioxane	12.73	88	6024	94.3926	ug/L	94
51)	Bromodichloromethane	12.74	83	55582	4.9712	ug/L	98
52)	Dibromomethane	12.84	93	24066	5.1974	ug/L	97
53)	2-Chloroethyl Vinyl Ether	13.09	63	22628	5.0123	ug/L	98
54)	4-Methyl-2-Pentanone	13.12	58	13771	4.9990	ug/L	98
55)	cis-1,3-Dichloropropene	13.48	75	65268	4.9788	ug/L	100
56)	Dimethyl Disulfide	13.78	79	32388	4.4900	ug/L	97
59)	Toluene	13.96	91	170623	5.0338	ug/L	100
60)	Ethyl Methacrylate	14.09	69	48224	4.8952	ug/L	97
62)	trans-1,3-Dichloropropene	14.18	75	57170	4.9550	ug/L	98
63)	1,1,2-Trichloroethane	14.43	97	31738	5.0533	ug/L	100
64)	2-Hexanone	14.36	43	30250	5.4989	ug/L	97
65)	1,3-Dichloropropane	14.79	76	56332	5.0442	ug/L	97
66)	Tetrachloroethene	14.92	166	44530	5.0485	ug/L	98
67)	Dibromochloromethane	15.23	129	38407	4.9886	ug/L	100
68)	1,2-Dibromoethane	15.53	107	31700	5.1461	ug/L	100
69)	1-Chlorohexane	15.65	91	57685	4.9422	ug/L	97
70)	Chlorobenzene	16.13	112	111261	4.9540	ug/L	93
71)	1,1,1,2-Tetrachloroethane	16.17	131	39251	4.7969	ug/L	99
72)	Ethylbenzene	16.16	106	60381	4.9693	ug/L	99
73)	m-,p-Xylene	16.27	106	146775	10.0465	ug/L	99
74)	o-Xylene	16.93	106	70994	4.9051	ug/L	97
75)	Styrene	16.97	104	124289	4.9703	ug/L	99
76)	Bromoform	17.55	173	22369	4.5292	ug/L	99
77)	Isopropylbenzene	17.43	105	185751	5.0757	ug/L	99
79)	1,1,2,2-Tetrachloroethane	17.70	83	38392	5.1034	ug/L	99
81)	1,2,3-Trichloropropane	17.92	110	11097	5.0617	ug/L	81
82)	trans-1,4-Dichloro-2-Buten	17.98	53	13138	4.9479	ug/L	99
83)	n-Propylbenzene	18.04	91	224177	5.1907	ug/L	99
84)	Bromobenzene	18.18	156	49206	4.8720	ug/L	97
85)	1,3,5-Trimethylbenzene	18.26	105	157987	5.0663	ug/L	100
86)	2-Chlorotoluene	18.35	91	149598	5.2177	ug/L	99
87)	4-Chlorotoluene	18.40	91	132680	4.8421	ug/L	99
88)	a-Methylstyrene	18.74	118	83761	4.8378	ug/L	100
89)	tert-Butylbenzene	18.80	134	33944	4.9673	ug/L	99
90)	1,2,4-Trimethylbenzene	18.87	105	162371	5.0832	ug/L	98
91)	sec-Butylbenzene	19.13	105	196080	5.2067	ug/L	99
92)	p-Isopropyltoluene	19.31	119	168870	5.1897	ug/L	99
93)	1,3-Dichlorobenzene	19.54	146	96772	5.0371	ug/L	99
94)	1,4-Dichlorobenzene	19.69	146	95507	4.9025	ug/L	93
95)	n-Butylbenzene	19.94	91	158252	5.1085	ug/L	100
96)	1,2-Dichlorobenzene	20.28	146	90214	4.9597	ug/L	99
97)	1,2-Dibromo-3-Chloropropan	21.47	75	6583	4.6580	ug/L	91
98)	1,2,4-Trichlorobenzene	22.83	180	65836	5.0646	ug/L	99
99)	Hexachlorobutadiene	23.01	225	29043	5.0953	ug/L	99
100)	Naphthalene	23.27	128	133109	5.1852	ug/L	98
101)	1,2,3-Trichlorobenzene	23.68	180	59619	4.8804	ug/L	99

(#) = qualifier out of range (m) = manual integration
6M139182.D 8260WTR.M Thu May 12 12:56:13 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051116\6M139182.D Vial: 6
Acq On : 11 May 2016 12:48 Operator: TMB
Sample : WG568265-06 5ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration



6M139182.D 8260WTR.M Thu May 12 12:56:14 2016 Page 3

Data File : C:\MSDCHEM\1\DATA\051116\6M139182.D Vial: 6
Acq On : 11 May 2016 12:48 Operator: TMB
Sample : WG568265-06 5ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	5.0000	4.6849	6.3	100	0.00
3	P	Chloromethane	5.0000	4.9502	1.0	100	0.00
4	C	Vinyl Chloride	5.0000	4.8593	2.8	100	0.00
5	T	1,3-Butadiene	5.0000	4.0196	19.6	100	0.01
6	T	Bromomethane	5.0000	4.8382	3.2	100	0.00
7	T	Chloroethane	5.0000	4.9074	1.9	100	0.00
8	T	Trichlorofluoromethane	5.0000	4.8544	2.9	100	0.01
9	T	Diethyl ether	50.0000	48.4266	3.1	100	0.00
10	T	Isoprene	5.0000	4.8480	3.0	100	0.00
11	T	Acrolein	25.0000	25.3880	-1.6	100	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	5.0000	4.9721	0.6	100	0.00
13	T	Acetone	5.0000	3.9213	21.6#	100	0.00
14	C	1,1-Dichloroethene	5.0000	4.9458	1.1	100	0.00
15	T	Tert-Butyl Alcohol	100.0000	102.6800	-2.7	100	0.00
16	T	Dimethyl Sulfide	5.0000	5.1423	-2.8	100	0.00
17	T	Iodomethane	5.0000	3.9748	20.5#	100	0.00
18	T	Methyl acetate	5.0000	5.8366	-16.7	100	0.00
19	T	Methylene Chloride	5.0000	4.9858	0.3	100	0.00
20	T	Carbon Disulfide	5.0000	4.9443	1.1	100	0.00
21	T	Acrylonitrile	25.0000	23.9591	4.2	100	0.00
22	T	Methyl Tert Butyl Ether	5.0000	5.1224	-2.4	100	0.00
23	T	trans-1,2-Dichloroethene	5.0000	4.8405	3.2	100	0.00
24	T	n-Hexane	5.0000	5.4180	-8.4	100	0.00
25	T	Diisopropyl ether	50.0000	49.5682	0.9	100	0.00
26	T	Vinyl Acetate	5.0000	4.7011	6.0	100	0.00
27	P	1,1-Dichloroethane	5.0000	5.0223	-0.4	100	0.00
28	T	Ethyl-Tert-Butyl ether	50.0000	49.3531	1.3	100	0.00
29	T	2-Butanone	5.0000	5.7395	-14.8	100	0.00
30	T	Propionitrile	50.0000	51.0476	-2.1	100	0.00
31	T	2,2-Dichloropropane	5.0000	5.2737	-5.5	100	0.00
32	T	cis-1,2-Dichloroethene	5.0000	4.9205	1.6	100	0.00
33	C	Chloroform	5.0000	4.8400	3.2	100	0.00
34		1-Bromopropane	5.0000	5.2110	-4.2	100	0.00
35	T	Bromochloromethane	5.0000	5.1209	-2.4	100	0.00
36	T	Tetrahydrofuran	50.0000	50.9523	-1.9	100	0.00
37	S	Dibromofluoromethane	2.5000	2.4819	0.7	100	0.00
38	T	1,1,1-Trichloroethane	5.0000	4.9448	1.1	100	0.00
39	T	Cyclohexane	5.0000	4.9881	0.2	100	0.00
40	T	1,1-Dichloropropene	5.0000	4.9913	0.2	100	0.00
41	T	Tert-Amyl-Methyl ether	50.0000	49.2919	1.4	100	0.00
42	T	Carbon Tetrachloride	5.0000	4.8124	3.8	100	0.00
43	S	1,2-Dichloroethane-d4	2.5000	2.5915	-3.7	100	0.00
44		Heptane	-1.0000	0.0000	0.0	100	0.00
45	T	1,2-Dichloroethane	5.0000	5.0795	-1.6	100	0.00
46	T	Benzene	5.0000	5.0987	-2.0	100	0.00
47	T	Trichloroethene	5.0000	4.9440	1.1	100	0.00
48	T	Methylcyclohexane	5.0000	5.1083	-2.2	100	0.00
49	C	1,2-Dichloropropane	5.0000	4.9790	0.4	100	0.00
50	T	1,4-Dioxane	100.0000	94.3927	5.6	100	0.00
51	T	Bromodichloromethane	5.0000	4.9712	0.6	100	0.00
52	T	Dibromomethane	5.0000	5.1974	-3.9	100	0.00
53	T	2-Chloroethyl Vinyl Ether	5.0000	5.0123	-0.2	100	0.00
54	T	4-Methyl-2-Pentanone	5.0000	4.9990	0.0	100	0.00

(#) = Out of Range
6M139182.D 8260WTR.M Thu May 12 12:57:17 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139182.D Vial: 6
Acq On : 11 May 2016 12:48 Operator: TMB
Sample : WG568265-06 5ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	5.0000	4.9788	0.4	100	0.00
56	T	Dimethyl Disulfide	5.0000	4.4900	10.2	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	2.5000	2.4955	0.2	100	0.00
59	C	Toluene	5.0000	5.0338	-0.7	100	0.00
60	T	Ethyl Methacrylate	5.0000	4.8952	2.1	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	100	0.00
62	T	trans-1,3-Dichloropropene	5.0000	4.9550	0.9	100	0.00
63	T	1,1,2-Trichloroethane	5.0000	5.0533	-1.1	100	0.00
64	T	2-Hexanone	5.0000	5.4989	-10.0	100	0.00
65	T	1,3-Dichloropropane	5.0000	5.0442	-0.9	100	0.00
66	T	Tetrachloroethene	5.0000	5.0485	-1.0	100	0.00
67	T	Dibromochloromethane	5.0000	4.9886	0.2	100	0.00
68	T	1,2-Dibromoethane	5.0000	5.1461	-2.9	100	0.00
69	T	1-Chlorohexane	5.0000	4.9422	1.2	100	0.00
70	P	Chlorobenzene	5.0000	4.9539	0.9	100	0.00
71	T	1,1,1,2-Tetrachloroethane	5.0000	4.7969	4.1	100	0.00
72	C	Ethylbenzene	5.0000	4.9693	0.6	100	0.00
73	T	m-,p-Xylene	10.0000	10.0465	-0.5	100	0.00
74	T	o-Xylene	5.0000	4.9051	1.9	100	0.00
75	T	Styrene	5.0000	4.9703	0.6	100	0.00
76	P	Bromoform	5.0000	4.5293	9.4	100	0.00
77	T	Isopropylbenzene	5.0000	5.0757	-1.5	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	5.0000	5.1034	-2.1	100	0.00
80	S	p-Bromofluorobenzene	2.5000	2.5498	-2.0	100	0.00
81	T	1,2,3-Trichloropropane	5.0000	5.0617	-1.2	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	5.0000	4.9479	1.0	100	0.00
83	T	n-Propylbenzene	5.0000	5.1907	-3.8	100	0.00
84	T	Bromobenzene	5.0000	4.8720	2.6	100	0.00
85	T	1,3,5-Trimethylbenzene	5.0000	5.0663	-1.3	100	0.00
86	T	2-Chlorotoluene	5.0000	5.2176	-4.4	100	0.00
87	T	4-Chlorotoluene	5.0000	4.8421	3.2	100	0.00
88	T	a-Methylstyrene	5.0000	4.8378	3.2	100	0.00
89	T	tert-Butylbenzene	5.0000	4.9673	0.7	100	0.00
90	T	1,2,4-Trimethylbenzene	5.0000	5.0832	-1.7	100	0.00
91	T	sec-Butylbenzene	5.0000	5.2067	-4.1	100	0.00
92	T	p-Isopropyltoluene	5.0000	5.1897	-3.8	100	0.00
93	T	1,3-Dichlorobenzene	5.0000	5.0371	-0.7	100	0.00
94	T	1,4-Dichlorobenzene	5.0000	4.9025	2.0	100	0.00
95	T	n-Butylbenzene	5.0000	5.1085	-2.2	100	0.00
96	T	1,2-Dichlorobenzene	5.0000	4.9597	0.8	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	5.0000	4.6580	6.8	100	0.00
98	T	1,2,4-Trichlorobenzene	5.0000	5.0646	-1.3	100	0.00
99	T	Hexachlorobutadiene	5.0000	5.0953	-1.9	100	0.00
100	T	Naphthalene	5.0000	5.1852	-3.7	100	0.00
101	T	1,2,3-Trichlorobenzene	5.0000	4.8804	2.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M139182.D 8260WTR.M Thu May 12 12:57:17 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051116\6M139183.D Vial: 7
Acq On : 11 May 2016 13:20 Operator: TMB
Sample : WG568265-07 20ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:14 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.56	96	789018	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.07	117	577246	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.64	152	317857	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.39	111	83991	10.1405	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 40.56%#			
43) 1,2-Dichloroethane-d4	11.11	65	94948	10.2922	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 41.16%#			
58) Toluene-d8	13.85	98	290630	10.2303	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 40.92%#			
80) p-Bromofluorobenzene	17.84	95	122445	10.3922	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 41.56%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.44	85	257571	20.7288	ug/L	100
3) Chloromethane	3.93	50	330530	19.3967	ug/L	98
4) Vinyl Chloride	4.16	62	209794	19.1455	ug/L	100
5) 1,3-Butadiene	4.20	54	33058	25.8312	ug/L	98
6) Bromomethane	5.08	94	112450	18.1525	ug/L	99
7) Chloroethane	5.24	64	134803	19.2537	ug/L	99
8) Trichlorofluoromethane	5.73	101	277592	19.9656	ug/L	100
9) Diethyl ether	6.29	59	559304	75.9937	ug/L	99
10) Isoprene	6.32	67	137363	19.7863	ug/L	100
11) Acrolein	6.55	56	41130	37.2105	ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.55	101	151429	19.0678	ug/L	99
13) Acetone	6.65	43	50620	18.6177	ug/L	99
14) 1,1-Dichloroethene	6.89	61	276062	19.1865	ug/L	99
15) Tert-Butyl Alcohol	7.01	59	113082	158.4276	ug/L	100
16) Dimethyl Sulfide	7.17	62	95589	20.3888	ug/L	99
17) Iodomethane	7.44	142	70984	18.2470	ug/L	99
18) Methyl acetate	7.45	43	136817	20.3489	ug/L	98
19) Methylene Chloride	7.72	84	161533	19.0073	ug/L	98
20) Carbon Disulfide	7.77	76	294121	19.7560	ug/L	100
21) Acrylonitrile	7.93	53	113375	38.5728	ug/L	96
22) Methyl Tert Butyl Ether	7.96	73	425496	19.4157	ug/L	100
23) trans-1,2-Dichloroethene	8.21	96	159038	19.3304	ug/L	98
24) n-Hexane	8.28	57	173036	19.9326	ug/L	98
25) Diisopropyl ether	8.67	45	2648010	78.6848	ug/L	100
26) Vinyl Acetate	8.86	43	204373	17.5831	ug/L	100
27) 1,1-Dichloroethane	8.89	63	321661	19.6092	ug/L	100
28) Ethyl-Tert-Butyl ether	9.31	59	2202191	78.7158	ug/L	100
29) 2-Butanone	9.51	43	73337	20.4813	ug/L	99
30) Propionitrile	9.63	54	78484	79.8506	ug/L	100
31) 2,2-Dichloropropane	9.75	77	221420	18.3464	ug/L	98
32) cis-1,2-Dichloroethene	9.83	96	176142	19.3805	ug/L	85
33) Chloroform	10.06	83	285304	18.9926	ug/L	99
34) 1-Bromopropane	10.21	122	26411	21.5718	ug/L	97
35) Bromochloromethane	10.32	130	99944	20.0470	ug/L	100
36) Tetrahydrofuran	10.36	42	183213	79.3719	ug/L	99
38) 1,1,1-Trichloroethane	10.65	97	256824	19.5095	ug/L	99
39) Cyclohexane	10.68	56	260310	19.7459	ug/L	99
40) 1,1-Dichloropropene	10.88	75	223099	19.5126	ug/L	99
41) Tert-Amyl-Methyl ether	11.00	73	1709576	78.4439	ug/L	100
42) Carbon Tetrachloride	11.04	117	227000	19.4172	ug/L	100

(#) = qualifier out of range (m) = manual integration
6M139183.D 8260WTR.M Thu May 12 12:56:14 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139183.D Vial: 7
Acq On : 11 May 2016 13:20 Operator: TMB
Sample : WG568265-07 20ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:14 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

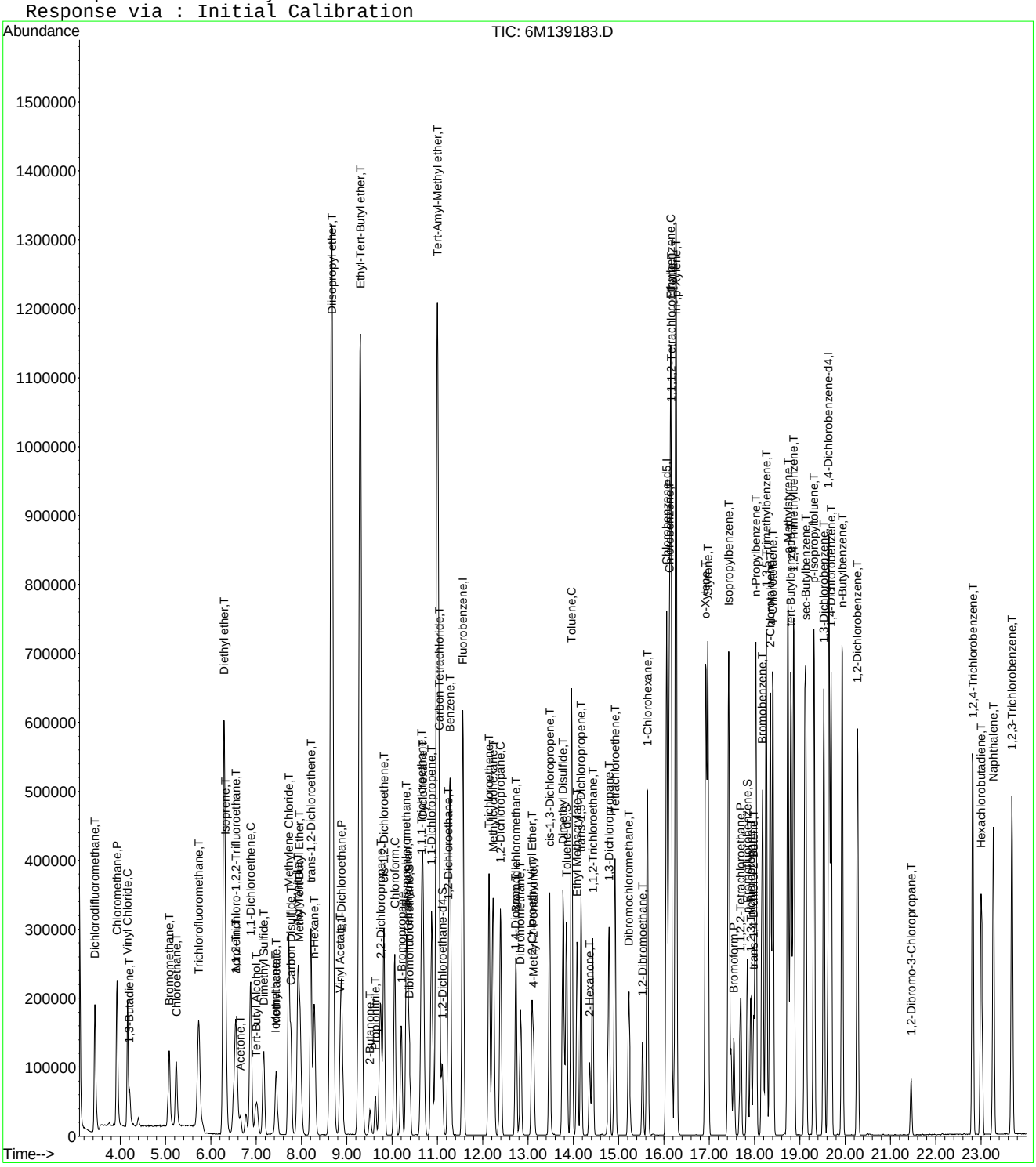
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	1,2-Dichloroethane	11.25	62	225743	19.5688	ug/L	100
46)	Benzene	11.29	78	637623	19.3557	ug/L	99
47)	Trichloroethene	12.14	130	169297	19.6480	ug/L	100
48)	Methylcyclohexane	12.24	83	227407	20.0436	ug/L	99
49)	1,2-Dichloropropane	12.39	63	178532	19.3111	ug/L	100
50)	1,4-Dioxane	12.73	88	9403	146.4618	ug/L	87
51)	Bromodichloromethane	12.74	83	219121	19.4811	ug/L	100
52)	Dibromomethane	12.84	93	91931	19.7356	ug/L	98
53)	2-Chloroethyl Vinyl Ether	13.09	63	95923	21.1212	ug/L	100
54)	4-Methyl-2-Pentanone	13.12	58	56162	20.2658	ug/L	99
55)	cis-1,3-Dichloropropene	13.48	75	259527	19.6795	ug/L	100
56)	Dimethyl Disulfide	13.78	79	143018	19.7085	ug/L	98
59)	Toluene	13.96	91	662410	19.3609	ug/L	100
60)	Ethyl Methacrylate	14.08	69	201802	20.2942	ug/L	98
62)	trans-1,3-Dichloropropene	14.18	75	227564	19.5399	ug/L	99
63)	1,1,2-Trichloroethane	14.43	97	124096	19.5747	ug/L	100
64)	2-Hexanone	14.36	43	111543	20.0881	ug/L	97
65)	1,3-Dichloropropane	14.79	76	220311	19.5442	ug/L	98
66)	Tetrachloroethene	14.92	166	170947	19.2005	ug/L	99
67)	Dibromochloromethane	15.23	129	155428	20.0004	ug/L	99
68)	1,2-Dibromoethane	15.53	107	123730	19.8992	ug/L	100
69)	1-Chlorohexane	15.65	91	229295	19.4622	ug/L	100
70)	Chlorobenzene	16.13	112	437306	19.2902	ug/L	99
71)	1,1,1,2-Tetrachloroethane	16.17	131	160098	19.3839	ug/L	100
72)	Ethylbenzene	16.16	106	234354	19.1077	ug/L	99
73)	m-,p-Xylene	16.27	106	564385	38.2719	ug/L	99
74)	o-Xylene	16.92	106	280125	19.1745	ug/L	99
75)	Styrene	16.97	104	488501	19.3534	ug/L	100
76)	Bromoform	17.55	173	94520	18.9604	ug/L	99
77)	Isopropylbenzene	17.43	105	719292	19.4720	ug/L	100
79)	1,1,2,2-Tetrachloroethane	17.69	83	148404	19.4291	ug/L	99
81)	1,2,3-Trichloropropane	17.92	110	43789	19.6719	ug/L	84
82)	trans-1,4-Dichloro-2-Buten	17.99	53	55531	20.5975	ug/L	94
83)	n-Propylbenzene	18.04	91	865702	19.7421	ug/L	100
84)	Bromobenzene	18.18	156	194680	18.9846	ug/L	99
85)	1,3,5-Trimethylbenzene	18.26	105	609928	19.2634	ug/L	100
86)	2-Chlorotoluene	18.35	91	577167	19.8262	ug/L	100
87)	4-Chlorotoluene	18.40	91	509516	18.3136	ug/L	100
88)	a-Methylstyrene	18.74	118	355426	20.2183	ug/L	99
89)	tert-Butylbenzene	18.80	134	134089	19.3258	ug/L	99
90)	1,2,4-Trimethylbenzene	18.86	105	633172	19.5227	ug/L	98
91)	sec-Butylbenzene	19.13	105	758140	19.8276	ug/L	100
92)	p-Isopropyltoluene	19.31	119	651066	19.7063	ug/L	100
93)	1,3-Dichlorobenzene	19.54	146	374793	19.2138	ug/L	100
94)	1,4-Dichlorobenzene	19.69	146	374495	18.9328	ug/L	100
95)	n-Butylbenzene	19.95	91	610027	19.3948	ug/L	100
96)	1,2-Dichlorobenzene	20.27	146	350277	18.9663	ug/L	100
97)	1,2-Dibromo-3-Chloropropan	21.47	75	28133	19.6055	ug/L	99
98)	1,2,4-Trichlorobenzene	22.83	180	257088	19.4783	ug/L	99
99)	Hexachlorobutadiene	23.01	225	112472	19.4339	ug/L	98
100)	Naphthalene	23.27	128	524313	20.1160	ug/L	100
101)	1,2,3-Trichlorobenzene	23.68	180	235919	19.0207	ug/L	100

(#) = qualifier out of range (m) = manual integration
6M139183.D 8260WTR.M Thu May 12 12:56:14 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051116\6M139183.D Vial: 7
Acq On : 11 May 2016 13:20 Operator: TMB
Sample : WG568265-07 20ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051116\6M139184.D Vial: 8
Acq On : 11 May 2016 13:53 Operator: TMB
Sample : WG568265-08 50ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:15 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	798515	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.06	117	582993	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	328042	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.39	111	205198	24.4796 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 97.92%		
43) 1,2-Dichloroethane-d4	11.11	65	229976	24.6325 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.52%		
58) Toluene-d8	13.85	98	701763	24.4590 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 97.84%		
80) p-Bromofluorobenzene	17.84	95	296525	24.3854 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.56%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.44	85	659078	52.4105 ug/L	100
3) Chloromethane	3.93	50	823496	47.7510 ug/L	100
4) Vinyl Chloride	4.16	62	523031	47.1635 ug/L	100
5) 1,3-Butadiene	4.20	54	54738	45.7969 ug/L	100
6) Bromomethane	5.08	94	286621	45.7182 ug/L	100
7) Chloroethane	5.24	64	341016	48.1275 ug/L	100
8) Trichlorofluoromethane	5.73	101	717241	50.9735 ug/L	100
9) Diethyl ether	6.29	59	713290	95.7634 ug/L	100
10) Isoprene	6.32	67	336798	47.9368 ug/L	100
11) Acrolein	6.55	56	53834	48.1247 ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.55	101	390908	48.6373 ug/L	100
13) Acetone	6.66	43	118196	49.1919 ug/L	100
14) 1,1-Dichloroethene	6.88	61	699539	48.0403 ug/L	100
15) Tert-Butyl Alcohol	7.02	59	146008	202.1240 ug/L	100
16) Dimethyl Sulfide	7.17	62	235608	49.6567 ug/L	100
17) Iodomethane	7.44	142	220706	52.3149 ug/L	100
18) Methyl acetate	7.45	43	329103	48.3656 ug/L	100
19) Methylene Chloride	7.72	84	413637	48.0930 ug/L	100
20) Carbon Disulfide	7.77	76	722399	47.9462 ug/L	100
21) Acrylonitrile	7.92	53	152816	51.3732 ug/L	100
22) Methyl Tert Butyl Ether	7.96	73	1090168	49.1536 ug/L	100
23) trans-1,2-Dichloroethene	8.21	96	409936	49.2335 ug/L	100
24) n-Hexane	8.29	57	422417	48.0809 ug/L	100
25) Diisopropyl ether	8.67	45	3381227	99.2772 ug/L	100
26) Vinyl Acetate	8.86	43	541645	46.0458 ug/L	100
27) 1,1-Dichloroethane	8.89	63	812710	48.9553 ug/L	100
28) Ethyl-Tert-Butyl ether	9.30	59	2807516	99.1592 ug/L	100
29) 2-Butanone	9.52	43	180235	49.7367 ug/L	100
30) Propionitrile	9.64	54	102216	102.7590 ug/L	100
31) 2,2-Dichloropropane	9.75	77	564381	46.2074 ug/L	100
32) cis-1,2-Dichloroethene	9.82	96	448631	48.7748 ug/L	100
33) Chloroform	10.06	83	724870	47.6805 ug/L	100
34) 1-Bromopropane	10.21	122	63962	51.6211 ug/L	100
35) Bromochloromethane	10.32	130	258050	51.1446 ug/L	100
36) Tetrahydrofuran	10.35	42	235033	101.6215 ug/L	100
38) 1,1,1-Trichloroethane	10.65	97	655004	49.1653 ug/L	100
39) Cyclohexane	10.69	56	631813	47.3564 ug/L	100
40) 1,1-Dichloropropene	10.88	75	563792	48.7237 ug/L	100
41) Tert-Amyl-Methyl ether	11.00	73	2182494	98.9527 ug/L	100
42) Carbon Tetrachloride	11.04	117	588237	49.7184 ug/L	100

(#) = qualifier out of range (m) = manual integration
6M139184.D 8260WTR.M Thu May 12 12:56:15 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139184.D Vial: 8
Acq On : 11 May 2016 13:53 Operator: TMB
Sample : WG568265-08 50ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:15 2016 Quant Results File: 8260WTR.RES

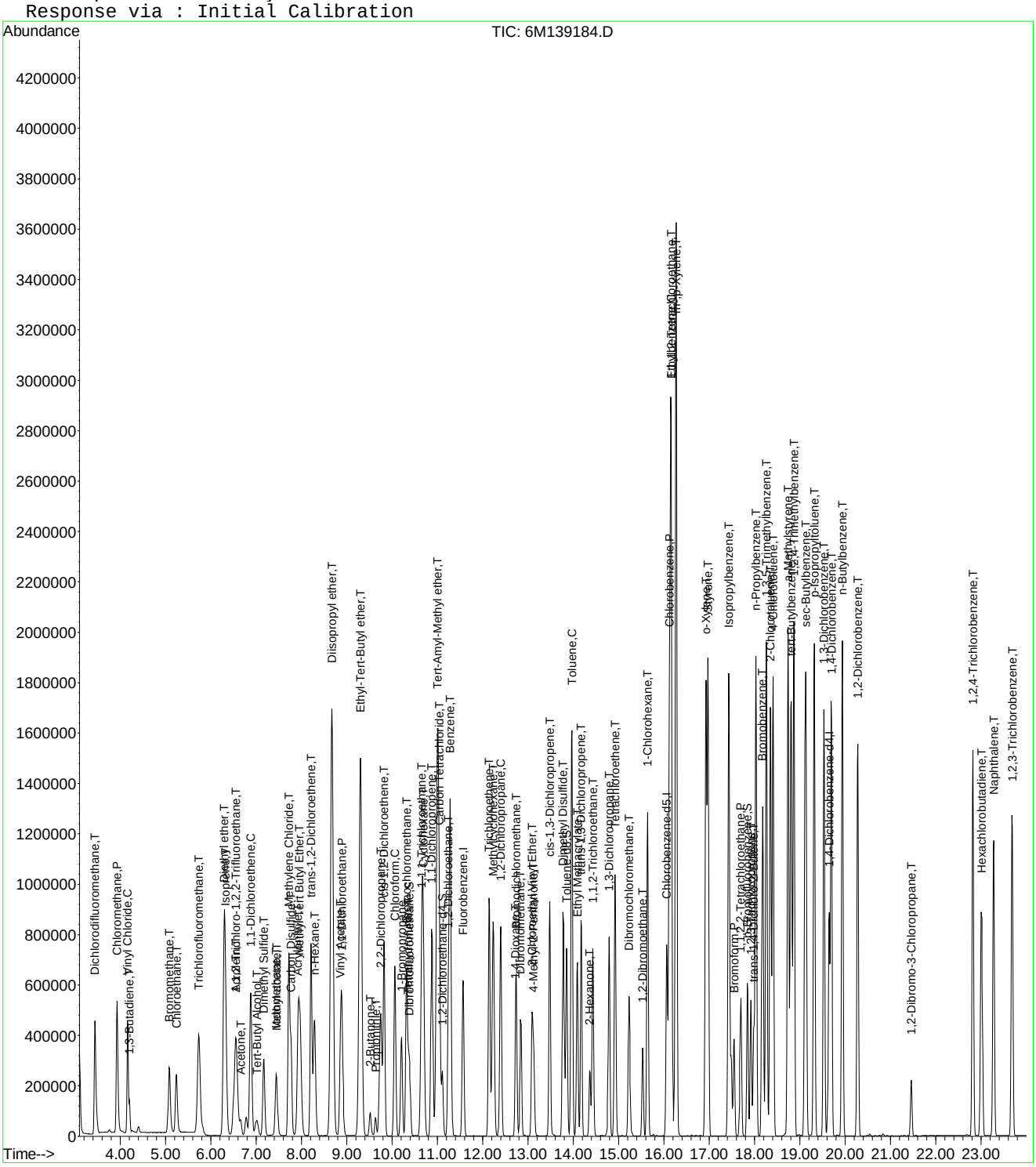
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	1,2-Dichloroethane	11.24	62	570979	48.9073	ug/L	100
46)	Benzene	11.28	78	1609728	48.2838	ug/L	100
47)	Trichloroethene	12.14	130	428539	49.1432	ug/L	100
48)	Methylcyclohexane	12.23	83	554636	48.3041	ug/L	100
49)	1,2-Dichloropropane	12.40	63	454580	48.5853	ug/L	100
50)	1,4-Dioxane	12.72	88	13836	212.9474	ug/L	100
51)	Bromodichloromethane	12.74	83	570430	50.1113	ug/L	100
52)	Dibromomethane	12.84	93	236859	50.2437	ug/L	100
53)	2-Chloroethyl Vinyl Ether	13.09	63	241961	52.6435	ug/L	100
54)	4-Methyl-2-Pentanone	13.12	58	145179	51.7642	ug/L	100
55)	cis-1,3-Dichloropropene	13.48	75	665508	49.8643	ug/L	100
56)	Dimethyl Disulfide	13.78	79	362839	49.4061	ug/L	100
59)	Toluene	13.97	91	1689306	48.8883	ug/L	100
60)	Ethyl Methacrylate	14.09	69	495509	49.3397	ug/L	100
62)	trans-1,3-Dichloropropene	14.17	75	588411	50.0263	ug/L	100
63)	1,1,2-Trichloroethane	14.43	97	318299	49.7130	ug/L	100
64)	2-Hexanone	14.36	43	279839	49.9002	ug/L	100
65)	1,3-Dichloropropane	14.79	76	566848	49.7904	ug/L	100
66)	Tetrachloroethene	14.92	166	436067	48.4956	ug/L	100
67)	Dibromochloromethane	15.24	129	410706	52.3285	ug/L	100
68)	1,2-Dibromoethane	15.53	107	319990	50.9558	ug/L	100
69)	1-Chlorohexane	15.64	91	564895	47.4747	ug/L	100
70)	Chlorobenzene	16.12	112	1127632	49.2512	ug/L	100
71)	1,1,1,2-Tetrachloroethane	16.17	131	423004	50.7105	ug/L	100
72)	Ethylbenzene	16.17	106	610995	49.3254	ug/L	100
73)	m-,p-Xylene	16.27	106	1467802	98.5529	ug/L	100
74)	o-Xylene	16.93	106	723736	49.0513	ug/L	100
75)	Styrene	16.97	104	1280669	50.2374	ug/L	100
76)	Bromoform	17.55	173	262413	52.1202	ug/L	100
77)	Isopropylbenzene	17.43	105	1861162	49.8870	ug/L	100
79)	1,1,2,2-Tetrachloroethane	17.70	83	390140	49.4914	ug/L	100
81)	1,2,3-Trichloropropane	17.92	110	116221	50.5904	ug/L	84
82)	trans-1,4-Dichloro-2-Buten	17.98	53	143667	51.6343	ug/L	100
83)	n-Propylbenzene	18.03	91	2239474	49.4850	ug/L	100
84)	Bromobenzene	18.18	156	502869	47.5157	ug/L	100
85)	1,3,5-Trimethylbenzene	18.26	105	1611101	49.3037	ug/L	100
86)	2-Chlorotoluene	18.35	91	1444414	48.0764	ug/L	100
87)	4-Chlorotoluene	18.41	91	1396141	48.6235	ug/L	100
88)	a-Methylstyrene	18.74	118	900578	49.6387	ug/L	100
89)	tert-Butylbenzene	18.81	134	349839	48.8555	ug/L	100
90)	1,2,4-Trimethylbenzene	18.87	105	1675362	50.0529	ug/L	100
91)	sec-Butylbenzene	19.13	105	1985203	50.3068	ug/L	100
92)	p-Isopropyltoluene	19.32	119	1721640	50.4921	ug/L	100
93)	1,3-Dichlorobenzene	19.53	146	984133	48.8852	ug/L	100
94)	1,4-Dichlorobenzene	19.70	146	987627	48.3798	ug/L	100
95)	n-Butylbenzene	19.94	91	1633253	50.3142	ug/L	100
96)	1,2-Dichlorobenzene	20.28	146	925793	48.5722	ug/L	100
97)	1,2-Dibromo-3-Chloropropan	21.46	75	77110	52.0685	ug/L	100
98)	1,2,4-Trichlorobenzene	22.82	180	673887	49.4719	ug/L	100
99)	Hexachlorobutadiene	23.02	225	287527	48.1390	ug/L	100
100)	Naphthalene	23.28	128	1390842	51.7048	ug/L	100
101)	1,2,3-Trichlorobenzene	23.69	180	619594	48.4030	ug/L	100

(#) = qualifier out of range (m) = manual integration
6M139184.D 8260WTR.M Thu May 12 12:56:15 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051116\6M139184.D Vial: 8
Acq On : 11 May 2016 13:53 Operator: TMB
Sample : WG568265-08 50ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051116\6M139185.D Vial: 9
Acq On : 11 May 2016 14:25 Operator: TMB
Sample : WG568265-09 100ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:15 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.57	96	775651	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.07	117	576121	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	341568	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.38	111	401168	49.2690	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 197.08%#			
43) 1,2-Dichloroethane-d4	11.11	65	446334	49.2156	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 196.88%#			
58) Toluene-d8	13.85	98	1363327	48.0836	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 192.32%#			
80) p-Bromofluorobenzene	17.85	95	594176	46.9284	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 187.72%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.44	85	1320831	108.1297	ug/L	100
3) Chloromethane	3.93	50	1686399	100.6695	ug/L	99
4) Vinyl Chloride	4.16	62	1039791	96.5253	ug/L	100
5) 1,3-Butadiene	4.20	54	106686	99.1888	ug/L	98
6) Bromomethane	5.07	94	612167	100.5236	ug/L	99
7) Chloroethane	5.24	64	706318	102.6209	ug/L	100
8) Trichlorofluoromethane	5.73	101	1410619	103.2061	ug/L	100
9) Diethyl ether	6.29	59	1489387	205.8533	ug/L	96
10) Isoprene	6.32	67	717790	105.1752	ug/L	96
11) Acrolein	6.55	56	106940	98.4165	ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.55	101	786674	100.7643	ug/L	100
13) Acetone	6.66	43	223201	100.1365	ug/L	98
14) 1,1-Dichloroethene	6.88	61	1400575	99.0186	ug/L	100
15) Tert-Butyl Alcohol	7.01	59	287761	410.1001	ug/L	98
16) Dimethyl Sulfide	7.17	62	455700	98.8744	ug/L	99
17) Iodomethane	7.43	142	441757	105.8818	ug/L	100
18) Methyl acetate	7.45	43	626509	94.7870	ug/L	99
19) Methylene Chloride	7.72	84	817379	97.8368	ug/L	100
20) Carbon Disulfide	7.77	76	1454147	99.3578	ug/L	100
21) Acrylonitrile	7.92	53	288081	99.7009	ug/L	99
22) Methyl Tert Butyl Ether	7.95	73	2112199	98.0423	ug/L	99
23) trans-1,2-Dichloroethene	8.21	96	809563	100.0949	ug/L	99
24) n-Hexane	8.29	57	849349	99.5254	ug/L	99
25) Diisopropyl ether	8.67	45	6413042	193.8456	ug/L	99
26) Vinyl Acetate	8.86	43	1202955	105.2789	ug/L	99
27) 1,1-Dichloroethane	8.89	63	1599992	99.2199	ug/L	99
28) Ethyl-Tert-Butyl ether	9.30	59	5413844	196.8491	ug/L	99
29) 2-Butanone	9.52	43	337845	95.9781	ug/L	100
30) Propionitrile	9.64	54	190001	196.6408	ug/L	99
31) 2,2-Dichloropropane	9.75	77	1141054	96.1749	ug/L	98
32) cis-1,2-Dichloroethene	9.82	96	886861	99.2609	ug/L	100
33) Chloroform	10.06	83	1430939	96.8988	ug/L	100
34) 1-Bromopropane	10.21	122	128006	106.3536	ug/L	99
35) Bromochloromethane	10.32	130	506429	103.3312	ug/L	100
36) Tetrahydrofuran	10.35	42	436668	197.8167	ug/L	100
38) 1,1,1-Trichloroethane	10.66	97	1308777	101.1339	ug/L	100
39) Cyclohexane	10.69	56	1271020	98.0752	ug/L	100
40) 1,1-Dichloropropene	10.87	75	1120823	99.7184	ug/L	99
41) Tert-Amyl-Methyl ether	11.00	73	4249847	198.3648	ug/L	100
42) Carbon Tetrachloride	11.04	117	1193238	103.8266	ug/L	100

(#) = qualifier out of range (m) = manual integration
6M139185.D 8260WTR.M Thu May 12 12:56:16 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139185.D Vial: 9
Acq On : 11 May 2016 14:25 Operator: TMB
Sample : WG568265-09 100ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:15 2016 Quant Results File: 8260WTR.RES

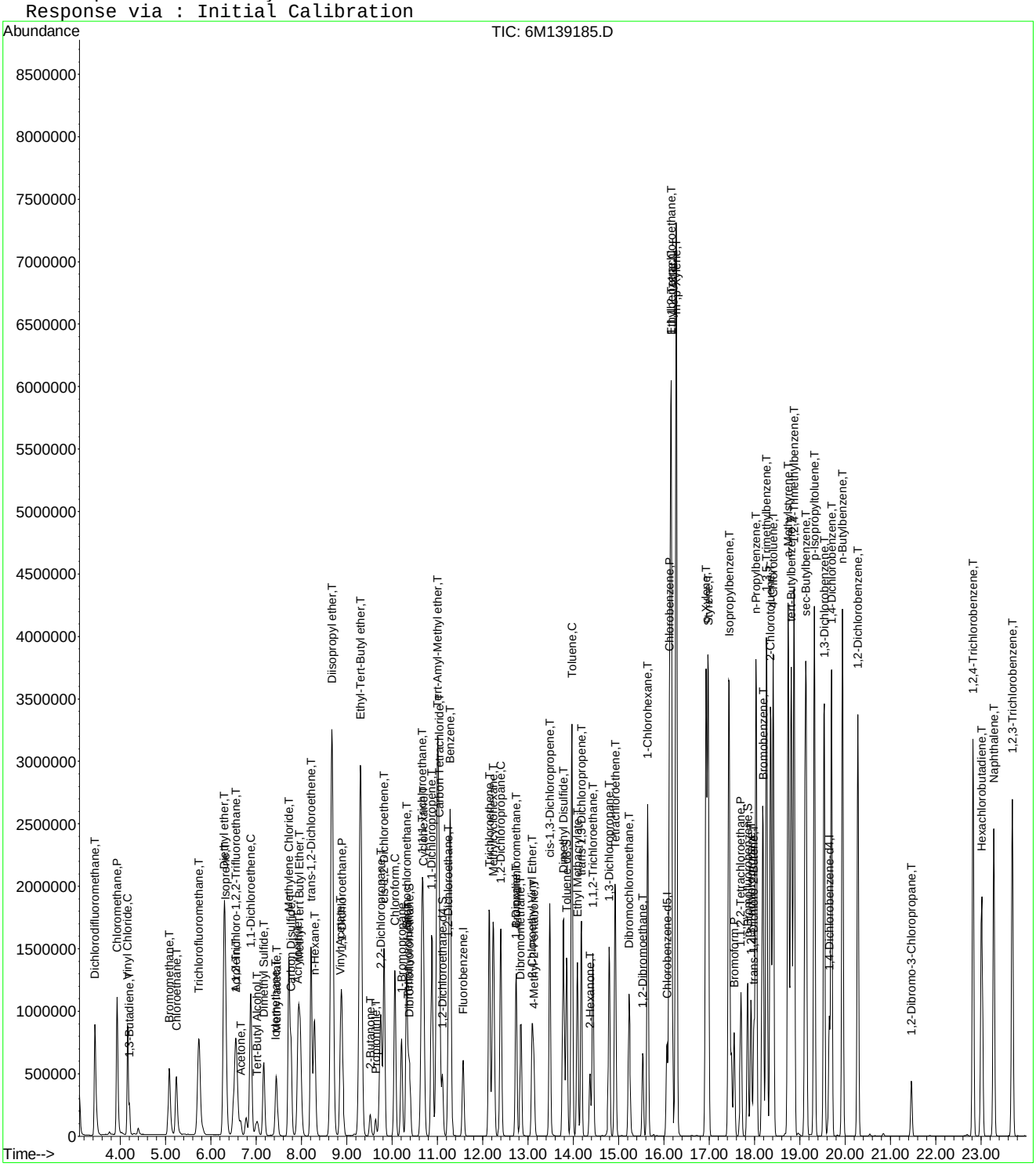
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	1,2-Dichloroethane	11.24	62	1121272	98.8739	ug/L	100
46)	Benzene	11.28	78	3178096	98.1370	ug/L	100
47)	Trichloroethene	12.15	130	833450	98.3942	ug/L	100
48)	Methylcyclohexane	12.23	83	1120009	100.4186	ug/L	100
49)	1,2-Dichloropropane	12.40	63	898385	98.8493	ug/L	100
50)	1,4-Dioxane	12.73	88	26979	427.4687	ug/L	95
51)	Bromodichloromethane	12.74	83	1125695	101.8053	ug/L	99
52)	Dibromomethane	12.84	93	466704	101.9178	ug/L	100
53)	2-Chloroethyl Vinyl Ether	13.09	63	448792	100.5220	ug/L	100
54)	4-Methyl-2-Pentanone	13.13	58	269607	98.9632	ug/L	98
55)	cis-1,3-Dichloropropene	13.48	75	1312635	101.2505	ug/L	100
56)	Dimethyl Disulfide	13.79	79	729244	102.2248	ug/L	100
59)	Toluene	13.97	91	3354389	98.2336	ug/L	100
60)	Ethyl Methacrylate	14.09	69	983873	99.1365	ug/L	100
62)	trans-1,3-Dichloropropene	14.18	75	1171296	100.7706	ug/L	100
63)	1,1,2-Trichloroethane	14.43	97	627405	99.1591	ug/L	100
64)	2-Hexanone	14.37	43	528644	95.3910	ug/L	100
65)	1,3-Dichloropropane	14.79	76	1096978	97.5050	ug/L	100
66)	Tetrachloroethene	14.93	166	861830	96.9886	ug/L	99
67)	Dibromochloromethane	15.24	129	820726	105.8170	ug/L	99
68)	1,2-Dibromoethane	15.53	107	623296	100.4388	ug/L	100
69)	1-Chlorohexane	15.64	91	1152589	98.0209	ug/L	99
70)	Chlorobenzene	16.12	112	2265189	100.1161	ug/L	99
71)	1,1,1,2-Tetrachloroethane	16.16	131	863961	104.8086	ug/L	99
72)	Ethylbenzene	16.16	106	1247492	101.9109	ug/L	99
73)	m-,p-Xylene	16.27	106	2983326	202.6994	ug/L	97
74)	o-Xylene	16.93	106	1469311	100.7706	ug/L	100
75)	Styrene	16.98	104	2629654	104.3850	ug/L	99
76)	Bromoform	17.55	173	546548	109.8496	ug/L	99
77)	Isopropylbenzene	17.44	105	3794606	102.9248	ug/L	99
79)	1,1,2,2-Tetrachloroethane	17.70	83	814086	99.1818	ug/L	99
81)	1,2,3-Trichloropropane	17.92	110	233412	97.5796	ug/L	84
82)	trans-1,4-Dichloro-2-Buten	17.98	53	300589	103.7543	ug/L	94
83)	n-Propylbenzene	18.03	91	4584027	97.2808	ug/L	100
84)	Bromobenzene	18.19	156	1035417	93.9614	ug/L	99
85)	1,3,5-Trimethylbenzene	18.26	105	3357272	98.6724	ug/L	100
86)	2-Chlorotoluene	18.35	91	2906991	92.9259	ug/L	100
87)	4-Chlorotoluene	18.41	91	3013622	100.7995	ug/L	100
88)	a-Methylstyrene	18.74	118	1915371	101.3921	ug/L	99
89)	tert-Butylbenzene	18.81	134	739242	99.1481	ug/L	98
90)	1,2,4-Trimethylbenzene	18.87	105	3521301	101.0361	ug/L	99
91)	sec-Butylbenzene	19.13	105	4152691	101.0658	ug/L	100
92)	p-Isopropyltoluene	19.32	119	3611625	101.7270	ug/L	99
93)	1,3-Dichlorobenzene	19.54	146	2068020	98.6576	ug/L	99
94)	1,4-Dichlorobenzene	19.70	146	2067053	97.2467	ug/L	100
95)	n-Butylbenzene	19.94	91	3443965	101.8940	ug/L	100
96)	1,2-Dichlorobenzene	20.28	146	1919398	96.7143	ug/L	99
97)	1,2-Dibromo-3-Chloropropan	21.46	75	156661	101.5961	ug/L	99
98)	1,2,4-Trichlorobenzene	22.82	180	1398111	98.5748	ug/L	99
99)	Hexachlorobutadiene	23.02	225	604182	97.1489	ug/L	99
100)	Naphthalene	23.28	128	2810159	100.3312	ug/L	99
101)	1,2,3-Trichlorobenzene	23.69	180	1279024	95.9612	ug/L	99

(#) = qualifier out of range (m) = manual integration
6M139185.D 8260WTR.M Thu May 12 12:56:16 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051116\6M139185.D Vial: 9
Acq On : 11 May 2016 14:25 Operator: TMB
Sample : WG568265-09 100ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051116\6M139187.D Vial: 11
Acq On : 11 May 2016 15:29 Operator: TMB
Sample : WG568265-11 300ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:17 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	917718	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.07	117	623462	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	348680	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.38	111	1452497	150.7718 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 603.08%#		
43) 1,2-Dichloroethane-d4	11.11	65	1564740	145.8284 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 583.32%#		
58) Toluene-d8	13.85	98	4770117	155.4640 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 621.84%#		
80) p-Bromofluorobenzene	17.85	95	1926682	149.0668 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 596.28%#		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.44	85	4096736	283.4607 ug/L	100
3) Chloromethane	3.93	50	4931503	248.8135 ug/L	100
4) Vinyl Chloride	4.16	62	3105284	243.6427 ug/L	99
5) 1,3-Butadiene	4.20	54	339130	302.1406 ug/L	99
6) Bromomethane	5.06	94	2035599	282.5188 ug/L	99
7) Chloroethane	5.23	64	2285134	280.6108 ug/L	100
8) Trichlorofluoromethane	5.72	101	4643448	287.1398 ug/L	99
9) Diethyl ether	6.29	59	2584762	301.9451 ug/L	99
10) Isoprene	6.31	67	2490050	308.3763 ug/L	100
11) Acrolein	6.54	56	205151	159.5727 ug/L	100
12) 1,1,2-Trichloro-1,2,2-Trif	6.53	101	2788033	301.8332 ug/L	100
13) Acetone	6.66	43	752928	294.3328 ug/L	99
14) 1,1-Dichloroethene	6.87	61	4929198	294.5396 ug/L	99
15) Tert-Butyl Alcohol	7.04	59	469664	565.7210 ug/L	99
16) Dimethyl Sulfide	7.16	62	1596553	292.7825 ug/L	99
17) Iodomethane	7.43	142	1457161	291.9597 ug/L	99
18) Methyl acetate	7.45	43	2223074	284.2710 ug/L	98
19) Methylene Chloride	7.72	84	2902405	293.6256 ug/L	97
20) Carbon Disulfide	7.76	76	5119877	295.6721 ug/L	99
21) Acrylonitrile	7.92	53	565562	165.4328 ug/L	97
22) Methyl Tert Butyl Ether	7.95	73	7551467	296.2559 ug/L	99
23) trans-1,2-Dichloroethene	8.21	96	2901202	303.1771 ug/L	99
24) n-Hexane	8.28	57	2997214	296.8401 ug/L	99
25) Diisopropyl ether	8.67	45	11134502	284.4591 ug/L	96
26) Vinyl Acetate	8.86	43	4736338	350.3415 ug/L	99
27) 1,1-Dichloroethane	8.88	63	5725139	300.0712 ug/L	99
28) Ethyl-Tert-Butyl ether	9.30	59	9686933	297.6946 ug/L	98
29) 2-Butanone	9.52	43	1137831	273.2055 ug/L	98
30) Propionitrile	9.64	54	314061	274.7191 ug/L	98
31) 2,2-Dichloropropane	9.75	77	4040671	287.8500 ug/L	97
32) cis-1,2-Dichloroethene	9.82	96	3191234	301.8827 ug/L	100
33) Chloroform	10.06	83	5069033	290.1213 ug/L	100
34) 1-Bromopropane	10.21	122	457960	321.5929 ug/L	99
35) Bromochloromethane	10.32	130	1805102	311.2948 ug/L	99
36) Tetrahydrofuran	10.35	42	780827	300.8992 ug/L	99
38) 1,1,1-Trichloroethane	10.66	97	4718615	308.1788 ug/L	100
39) Cyclohexane	10.68	56	4630221	301.9713 ug/L	99
40) 1,1-Dichloropropene	10.87	75	4025368	302.6921 ug/L	98
41) Tert-Amyl-Methyl ether	11.00	73	7704890	303.9589 ug/L	100
42) Carbon Tetrachloride	11.04	117	4354797	320.2627 ug/L	99

(#) = qualifier out of range (m) = manual integration
6M139187.D 8260WTR.M Thu May 12 12:56:17 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139187.D Vial: 11
Acq On : 11 May 2016 15:29 Operator: TMB
Sample : WG568265-11 300ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:17 2016 Quant Results File: 8260WTR.RES

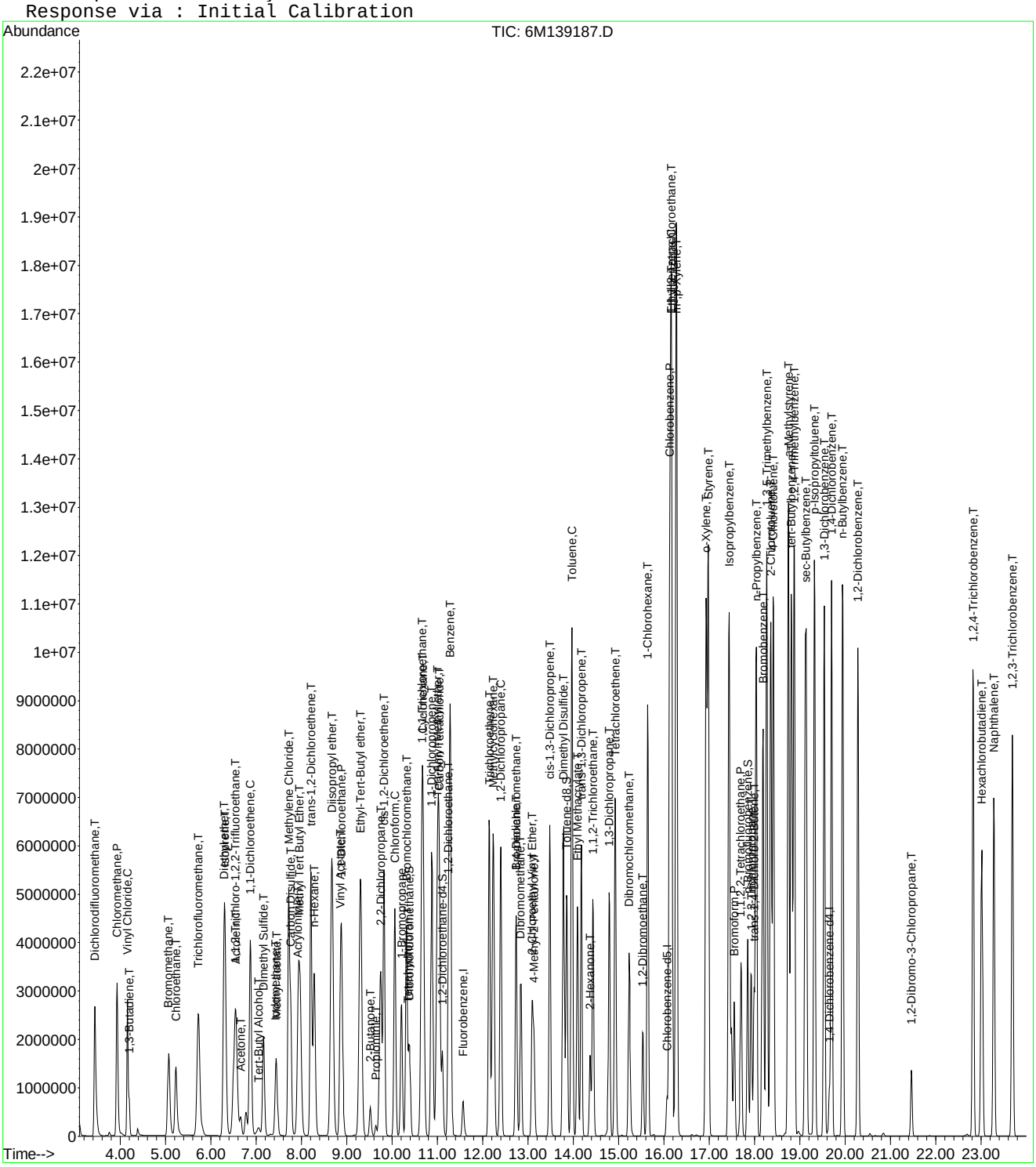
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

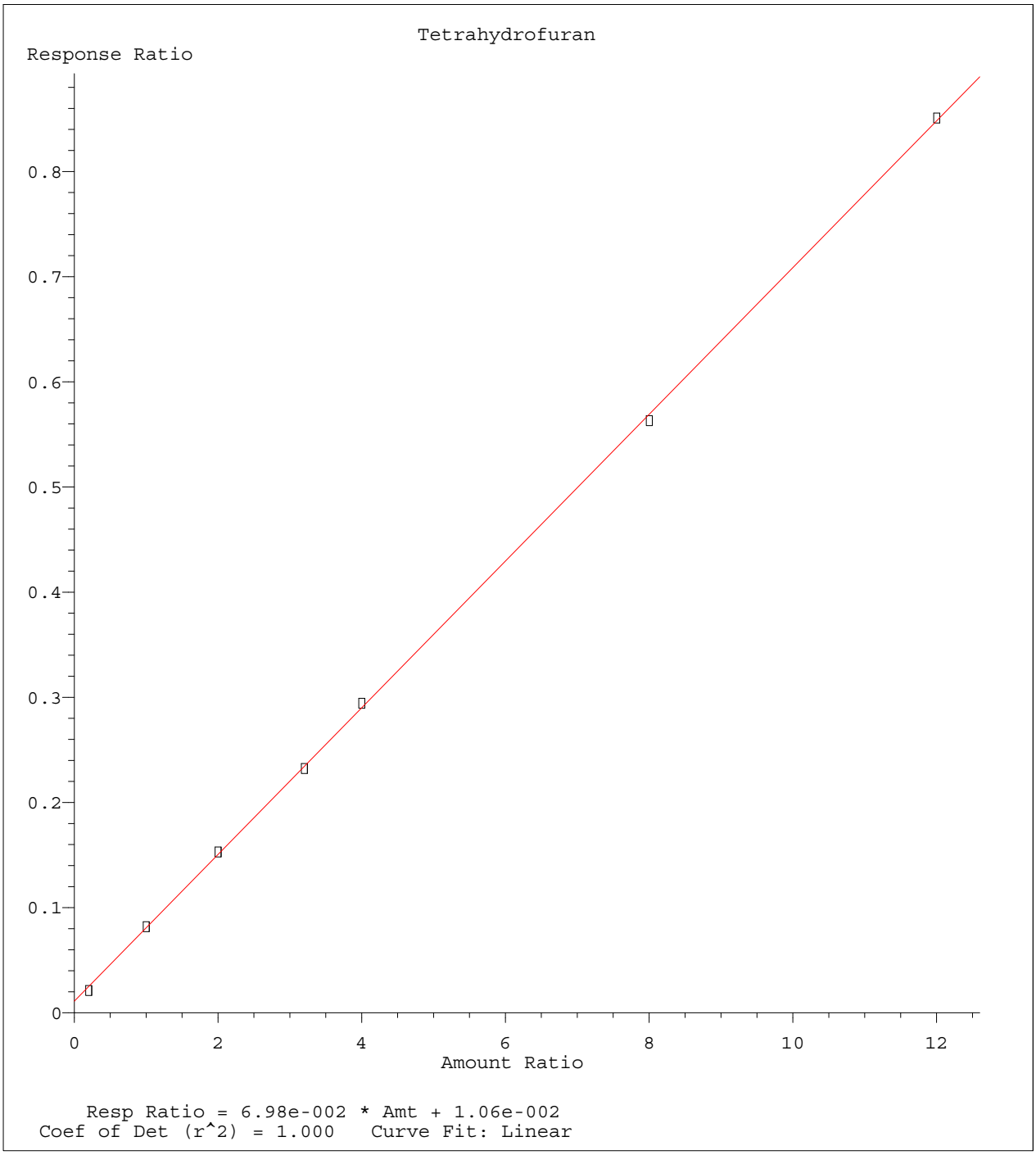
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	1,2-Dichloroethane	11.24	62	4021904	299.7501 ug/L	99
46)	Benzene	11.28	78	10204131	266.3171 ug/L	93
47)	Trichloroethene	12.15	130	2938738	293.2297 ug/L	98
48)	Methylcyclohexane	12.23	83	4008598	303.7681 ug/L	100
49)	1,2-Dichloropropane	12.40	63	3187061	296.3866 ug/L	99
50)	1,4-Dioxane	12.74	88	45130	604.3672 ug/L	97
51)	Bromodichloromethane	12.74	83	3979344	304.1713 ug/L	99
52)	Dibromomethane	12.83	93	1659331	306.2660 ug/L	100
53)	2-Chloroethyl Vinyl Ether	13.09	63	1456494	275.7287 ug/L	100
54)	4-Methyl-2-Pentanone	13.13	58	905868	281.0376 ug/L	98
55)	cis-1,3-Dichloropropene	13.48	75	4564287	297.5659 ug/L	100
56)	Dimethyl Disulfide	13.78	79	2667339	316.0231 ug/L	99
59)	Toluene	13.97	91	10036247	271.5950 ug/L	90
60)	Ethyl Methacrylate	14.09	69	3364634	313.2824 ug/L	98
62)	trans-1,3-Dichloropropene	14.18	75	4019947	319.5884 ug/L	100
63)	1,1,2-Trichloroethane	14.43	97	2103502	307.2070 ug/L	99
64)	2-Hexanone	14.37	43	1730467	288.5433 ug/L	99
65)	1,3-Dichloropropane	14.79	76	3636551	298.6911 ug/L	99
66)	Tetrachloroethene	14.93	166	2950034	306.7819 ug/L	96
67)	Dibromochloromethane	15.23	129	2720133	324.0791 ug/L	98
68)	1,2-Dibromoethane	15.53	107	2039235	303.6534 ug/L	99
69)	1-Chlorohexane	15.64	91	3826959	300.7473 ug/L	99
70)	Chlorobenzene	16.13	112	6952765	283.9623 ug/L	90
71)	1,1,1,2-Tetrachloroethane	16.16	131	2804189	314.3503 ug/L	98
72)	Ethylbenzene	16.16	106	4064851	306.8535 ug/L	71
73)	m-,p-Xylene	16.28	106	8500269	533.6888 ug/L	68
74)	o-Xylene	16.93	106	4614905	292.4735 ug/L	88
75)	Styrene	16.98	104	7783772	285.5179 ug/L	89
76)	Bromoform	17.55	173	1827681	339.4488 ug/L	98
77)	Isopropylbenzene	17.44	105	10100535	253.1637 ug/L	91
79)	1,1,2,2-Tetrachloroethane	17.70	83	2610301	311.5317 ug/L	99
81)	1,2,3-Trichloropropane	17.93	110	746823	305.8467 ug/L	85
82)	trans-1,4-Dichloro-2-Buten	17.99	53	976449	330.1664 ug/L	90
83)	n-Propylbenzene	18.04	91	11201654	232.8692 ug/L	88
84)	Bromobenzene	18.19	156	3265507	290.2921 ug/L	98
85)	1,3,5-Trimethylbenzene	18.27	105	9151454	263.4811 ug/L	91
86)	2-Chlorotoluene	18.36	91	8996825	281.7295 ug/L	95
87)	4-Chlorotoluene	18.41	91	7720612	252.9713 ug/L	91
88)	a-Methylstyrene	18.75	118	5757577	298.5664 ug/L	97
89)	tert-Butylbenzene	18.81	134	2284651	300.1704 ug/L	89
90)	1,2,4-Trimethylbenzene	18.88	105	9395639	264.0886 ug/L	89
91)	sec-Butylbenzene	19.14	105	10613638	253.0398 ug/L	91
92)	p-Isopropyltoluene	19.32	119	9427677	260.1288 ug/L	91
93)	1,3-Dichlorobenzene	19.54	146	6024703	281.5538 ug/L	93
94)	1,4-Dichlorobenzene	19.70	146	5977504	275.4821 ug/L	93
95)	n-Butylbenzene	19.94	91	9021058	261.4553 ug/L	92
96)	1,2-Dichlorobenzene	20.28	146	5584955	275.6739 ug/L	94
97)	1,2-Dibromo-3-Chloropropan	21.46	75	485969	308.7273 ug/L	99
98)	1,2,4-Trichlorobenzene	22.83	180	4209743	290.7568 ug/L	97
99)	Hexachlorobutadiene	23.02	225	1820577	286.7672 ug/L	99
100)	Naphthalene	23.28	128	7807734	273.0739 ug/L	95
101)	1,2,3-Trichlorobenzene	23.69	180	3835427	281.8909 ug/L	98

(#) = qualifier out of range (m) = manual integration
6M139187.D 8260WTR.M Thu May 12 12:56:17 2016 Page 2

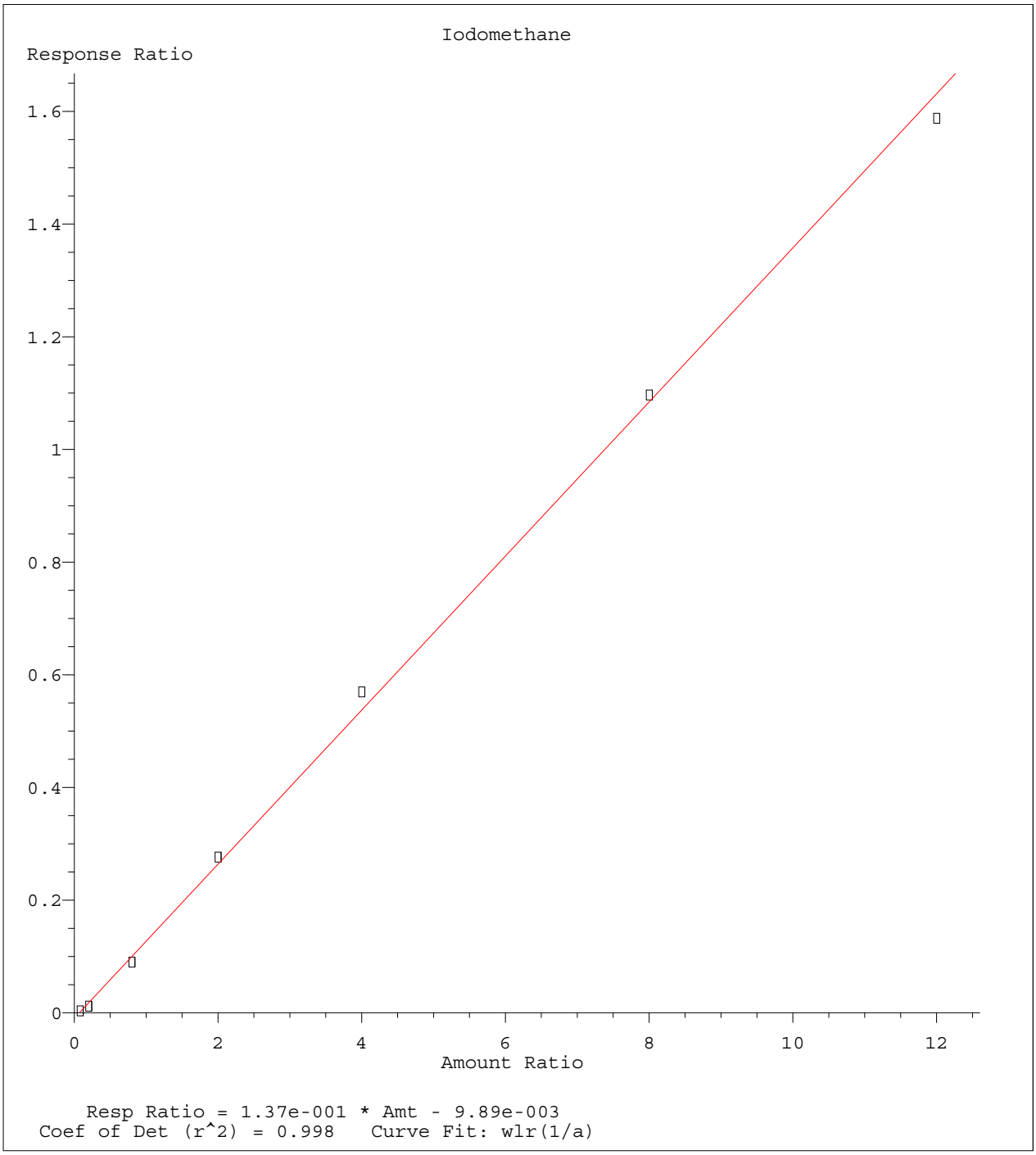
Data File : C:\MSDCHEM\1\DATA\051116\6M139187.D Vial: 11
Acq On : 11 May 2016 15:29 Operator: TMB
Sample : WG568265-11 300ug/L STD 8260 Inst : HPMS6
Misc : 1,1 STD76070 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration

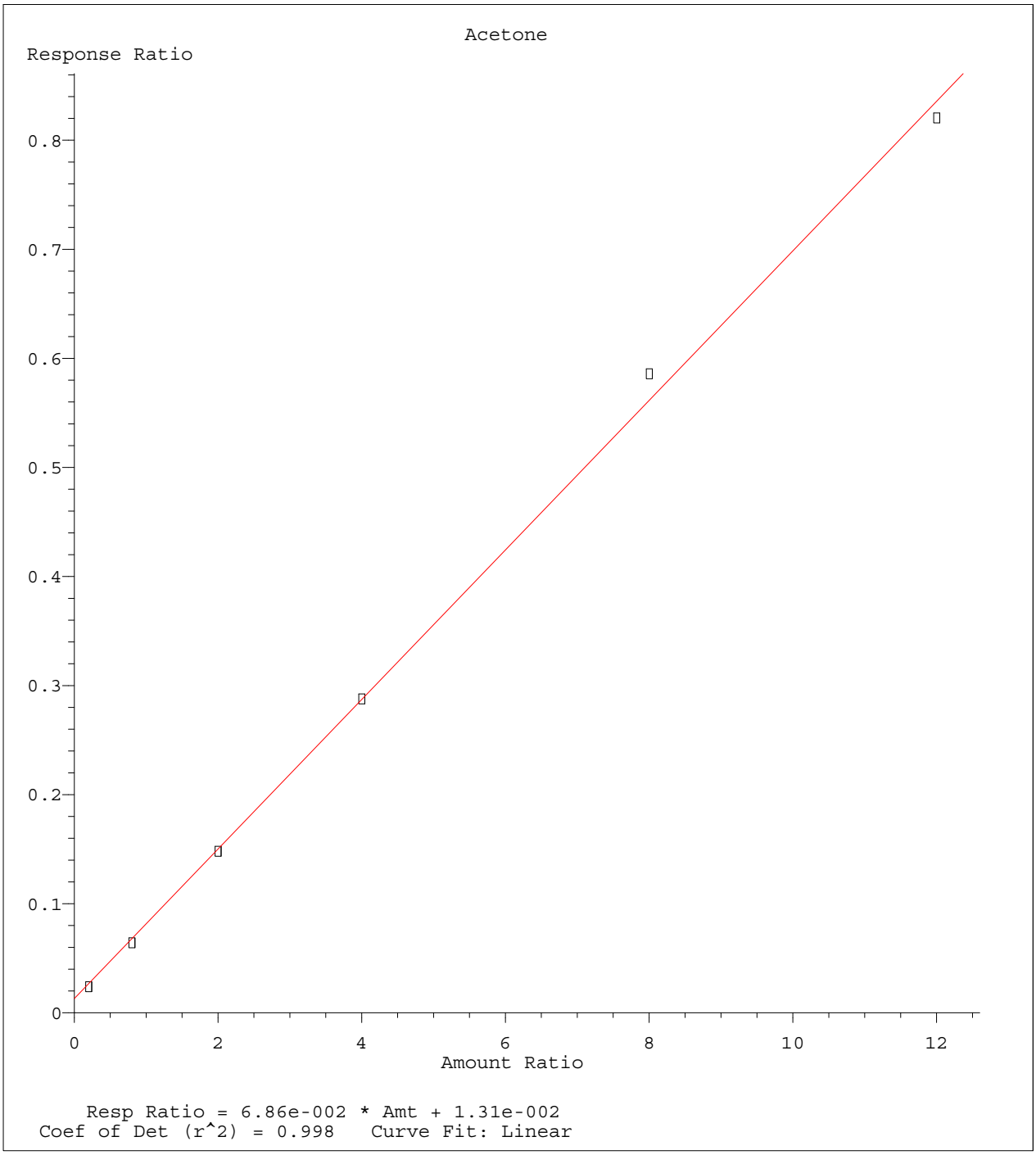




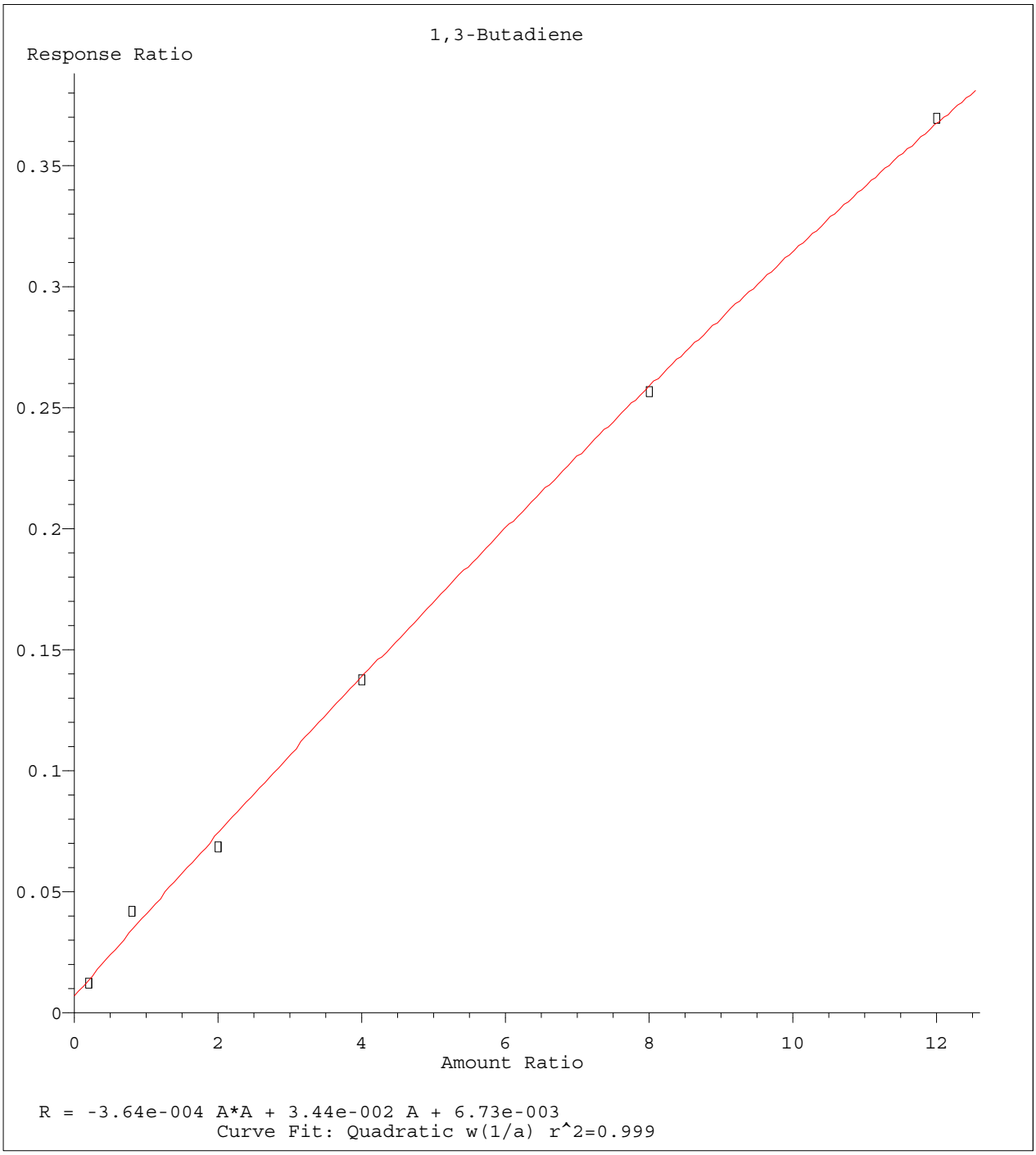
Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 12 12:57:41 2016



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 12 12:57:41 2016



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 12 12:57:41 2016



Method Name: C:\MSDCHEM\1\METHODS\8260WTR.M
Calibration Table Last Updated: Thu May 12 12:57:41 2016

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\051116\6M139191.D Vial: 15
Acq On : 11 May 2016 18:17 Operator: FJB
Sample : WG568265-12 50ug/L ALT SRC STD 8260 Inst : HPMS6
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:18 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.56	96	812535	25.00 ug/L	-0.01
57) Chlorobenzene-d5	16.06	117	603774	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	337360	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.38	111	211868	24.8392 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.36%		
43) 1,2-Dichloroethane-d4	11.11	65	223101	23.4838 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 93.92%		
58) Toluene-d8	13.85	98	724998	24.3991 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 97.60%		
80) p-Bromofluorobenzene	17.84	95	303582	24.2762 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.12%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.44	85	788491	61.6196 ug/L	99
3) Chloromethane	3.93	50	832489	47.4395 ug/L	99
4) Vinyl Chloride	4.16	62	564348	50.0111 ug/L	99
5) 1,3-Butadiene	4.20	54	93300	81.3225 ug/L	98
6) Bromomethane	5.06	94	316883	49.6731 ug/L	100
7) Chloroethane	5.22	64	389173	53.9762 ug/L	100
8) Trichlorofluoromethane	5.72	101	733267	51.2132 ug/L	100
9) Diethyl ether	6.29	59	782702	103.2692 ug/L	98
10) Isoprene	6.31	67	739221	103.3985 ug/L	99
11) Acrolein	6.55	56	120404	105.7774 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.53	101	472121	57.7284 ug/L	99
13) Acetone	6.66	43	123915	50.8268 ug/L	95
14) 1,1-Dichloroethene	6.87	61	745812	50.3343 ug/L	99
15) Tert-Butyl Alcohol	7.02	59	145373	197.7725 ug/L	99
16) Dimethyl Sulfide	7.16	62	512873	106.2280 ug/L	98
17) Iodomethane	7.43	142	333312	76.7683 ug/L	100
18) Methyl acetate	7.45	43	304914	44.0375 ug/L	97
19) Methylene Chloride	7.72	84	457558	52.2816 ug/L	96
20) Carbon Disulfide	7.76	76	1358383	88.6013 ug/L	100
21) Acrylonitrile	7.92	53	155615	51.4115 ug/L	99
22) Methyl Tert Butyl Ether	7.95	73	1192034	52.8192 ug/L	99
23) trans-1,2-Dichloroethene	8.21	96	459781	54.2671 ug/L	99
24) n-Hexane	8.28	57	732428	81.9289 ug/L	99
25) Diisopropyl ether	8.67	45	3701074	106.7933 ug/L	99
26) Vinyl Acetate	8.85	43	367076	30.6671 ug/L	99
27) 1,1-Dichloroethane	8.88	63	848633	50.2372 ug/L	100
28) Ethyl-Tert-Butyl ether	9.30	59	2896231	100.5275 ug/L	99
29) 2-Butanone	9.51	43	185919	50.4200 ug/L	99
30) Propionitrile	9.63	54	99024	97.8323 ug/L	99
31) 2,2-Dichloropropane	9.74	77	723006	58.1730 ug/L	99
32) cis-1,2-Dichloroethene	9.82	96	504066	53.8560 ug/L	97
33) Chloroform	10.06	83	785317	50.7653 ug/L	99
34) 1-Bromopropane	10.21	122	116133	92.1089 ug/L	99
35) Bromochloromethane	10.32	130	273500	53.2715 ug/L	100
36) Tetrahydrofuran	10.35	42	218970	92.7238 ug/L	99
38) 1,1,1-Trichloroethane	10.65	97	723362	53.3594 ug/L	99
39) Cyclohexane	10.68	56	904471	66.6232 ug/L	99
40) 1,1-Dichloropropene	10.87	75	616503	52.3598 ug/L	99
41) Tert-Amyl-Methyl ether	11.00	73	2361043	105.2009 ug/L	100
42) Carbon Tetrachloride	11.04	117	651396	54.1067 ug/L	100

(#) = qualifier out of range (m) = manual integration
6M139191.D 8260WTR.M Thu May 12 12:56:19 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139191.D Vial: 15
Acq On : 11 May 2016 18:17 Operator: FJB
Sample : WG568265-12 50ug/L ALT SRC STD 8260 Inst : HPMS6
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56:18 2016 Quant Results File: 8260WTR.RES

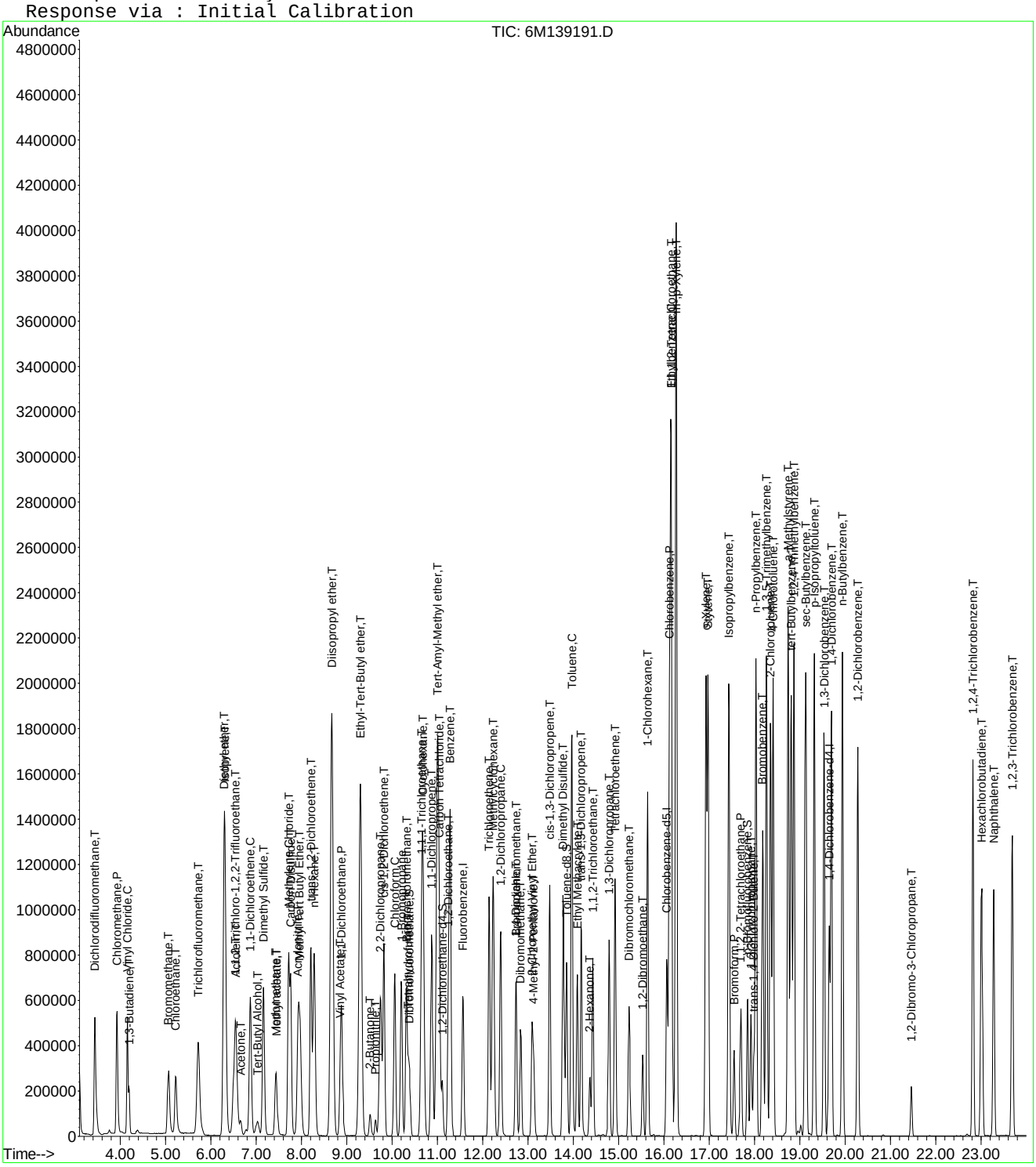
Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
45)	1,2-Dichloroethane	11.24	62	610374	51.3796	ug/L	99
46)	Benzene	11.28	78	1764477	52.0123	ug/L	99
47)	Trichloroethene	12.14	130	474473	53.4719	ug/L	99
48)	Methylcyclohexane	12.23	83	756746	64.7690	ug/L	99
49)	1,2-Dichloropropane	12.40	63	499902	52.5074	ug/L	99
50)	1,4-Dioxane	12.73	88	14913	225.5629	ug/L	99
51)	Bromodichloromethane	12.74	83	607532	52.4497	ug/L	100
52)	Dibromomethane	12.84	93	239195	49.8638	ug/L	100
53)	2-Chloroethyl Vinyl Ether	13.09	63	253251	54.1491	ug/L	100
54)	4-Methyl-2-Pentanone	13.12	58	141728	49.6618	ug/L	98
55)	cis-1,3-Dichloropropene	13.48	75	786283	57.8970	ug/L	100
56)	Dimethyl Disulfide	13.77	79	437891	58.5968	ug/L	99
59)	Toluene	13.97	91	1865477	52.1286	ug/L	100
60)	Ethyl Methacrylate	14.09	69	528440	50.8077	ug/L	96
62)	trans-1,3-Dichloropropene	14.17	75	639350	52.4862	ug/L	100
63)	1,1,2-Trichloroethane	14.43	97	337095	50.8365	ug/L	100
64)	2-Hexanone	14.36	43	272304	46.8854	ug/L	99
65)	1,3-Dichloropropane	14.79	76	622384	52.7870	ug/L	99
66)	Tetrachloroethene	14.92	166	479679	51.5097	ug/L	99
67)	Dibromochloromethane	15.23	129	430406	52.9511	ug/L	100
68)	1,2-Dibromoethane	15.53	107	331866	51.0281	ug/L	100
69)	1-Chlorohexane	15.64	91	671787	54.5149	ug/L	97
70)	Chlorobenzene	16.12	112	1250428	52.7348	ug/L	100
71)	1,1,1,2-Tetrachloroethane	16.16	131	458894	53.1196	ug/L	99
72)	Ethylbenzene	16.16	106	672376	52.4124	ug/L	100
73)	m-,p-Xylene	16.27	106	1641537	106.4245	ug/L	99
74)	o-Xylene	16.93	106	811554	53.1101	ug/L	100
75)	Styrene	16.97	104	1373664	52.0307	ug/L	99
76)	Bromoform	17.55	173	256471	49.1867	ug/L	100
77)	Isopropylbenzene	17.43	105	2062344	53.3769	ug/L	100
79)	1,1,2,2-Tetrachloroethane	17.70	83	401496	49.5252	ug/L	100
81)	1,2,3-Trichloropropane	17.92	110	118882	50.3194	ug/L	87
82)	trans-1,4-Dichloro-2-Buten	17.98	53	120517	42.1177	ug/L	97
83)	n-Propylbenzene	18.03	91	2508465	53.8979	ug/L	100
84)	Bromobenzene	18.18	156	526917	48.4128	ug/L	99
85)	1,3,5-Trimethylbenzene	18.26	105	1741180	51.8127	ug/L	99
86)	2-Chlorotoluene	18.35	91	1557434	50.4064	ug/L	100
87)	4-Chlorotoluene	18.41	91	1565137	53.0036	ug/L	100
88)	a-Methylstyrene	18.74	118	1051674	56.3658	ug/L	100
89)	tert-Butylbenzene	18.81	134	390198	52.9867	ug/L	82
90)	1,2,4-Trimethylbenzene	18.87	105	1761999	51.1873	ug/L	99
91)	sec-Butylbenzene	19.13	105	2190479	53.9756	ug/L	100
92)	p-Isopropyltoluene	19.32	119	1857775	52.9798	ug/L	100
93)	1,3-Dichlorobenzene	19.54	146	1055496	50.9819	ug/L	100
94)	1,4-Dichlorobenzene	19.70	146	1074534	51.1832	ug/L	100
95)	n-Butylbenzene	19.94	91	1761297	52.7601	ug/L	100
96)	1,2-Dichlorobenzene	20.28	146	1005487	51.2963	ug/L	100
97)	1,2-Dibromo-3-Chloropropan	21.46	75	76441	50.1910	ug/L	99
98)	1,2,4-Trichlorobenzene	22.82	180	732498	52.2895	ug/L	99
99)	Hexachlorobutadiene	23.02	225	352038	57.3117	ug/L	100
100)	Naphthalene	23.28	128	1263647	45.6788	ug/L	100
101)	1,2,3-Trichlorobenzene	23.69	180	652958	49.6005	ug/L	99

(#) = qualifier out of range (m) = manual integration
6M139191.D 8260WTR.M Thu May 12 12:56:19 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\051116\6M139191.D Vial: 15
Acq On : 11 May 2016 18:17 Operator: FJB
Sample : WG568265-12 50ug/L ALT SRC STD 8260 Inst : HPMS6
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 12:56 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\051116\6M139191.D Vial: 15
Acq On : 11 May 2016 18:17 Operator: FJB
Sample : WG568265-12 50ug/L ALT SRC STD 8260 Inst : HPMS6
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	102	-0.01
2	T	Dichlorodifluoromethane	50.0000	61.6196	-23.2#	120	0.00
3	P	Chloromethane	50.0000	47.4395	5.1	101	0.00
4	C	Vinyl Chloride	50.0000	50.0111	-0.0	108	0.00
5	T	1,3-Butadiene	50.0000	81.3225	-62.6#	170	0.00
6	T	Bromomethane	50.0000	49.6731	0.7	111	-0.01
7	T	Chloroethane	50.0000	53.9762	-8.0	114	-0.02
8	T	Trichlorofluoromethane	50.0000	51.2132	-2.4	102	-0.01
9	T	Diethyl ether	100.0000	103.2693	-3.3	110	0.00
10	T	Isoprene	50.0000	103.3985	-106.8#	219	-0.01
11	T	Acrolein	50.0000	105.7774	-111.6#	224	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	57.7284	-15.5	121	-0.01
13	T	Acetone	50.0000	50.8268	-1.7	105	0.00
14	C	1,1-Dichloroethene	50.0000	50.3343	-0.7	107	-0.01
15	T	Tert-Butyl Alcohol	200.0000	197.7725	1.1	100	0.00
16	T	Dimethyl Sulfide	50.0000	106.2280	-112.5#	218	-0.01
17	T	Iodomethane	50.0000	76.7683	-53.5#	151	-0.01
18	T	Methyl acetate	50.0000	44.0376	11.9	93	0.00
19	T	Methylene Chloride	50.0000	52.2816	-4.6	111	0.00
20	T	Carbon Disulfide	50.0000	88.6013	-77.2#	188	-0.01
21	T	Acrylonitrile	50.0000	51.4115	-2.8	102	0.00
22	T	Methyl Tert Butyl Ether	50.0000	52.8192	-5.6	109	0.00
23	T	trans-1,2-Dichloroethene	50.0000	54.2671	-8.5	112	0.00
24	T	n-Hexane	50.0000	81.9289	-63.9#	173	-0.01
25	T	Diisopropyl ether	100.0000	106.7933	-6.8	109	0.00
26	T	Vinyl Acetate	50.0000	30.6671	38.7#	68	-0.01
27	P	1,1-Dichloroethane	50.0000	50.2372	-0.5	104	-0.01
28	T	Ethyl-Tert-Butyl ether	100.0000	100.5276	-0.5	103	0.00
29	T	2-Butanone	50.0000	50.4200	-0.8	103	-0.01
30	T	Propionitrile	100.0000	97.8323	2.2	97	-0.01
31	T	2,2-Dichloropropane	50.0000	58.1730	-16.3	128	-0.01
32	T	cis-1,2-Dichloroethene	50.0000	53.8560	-7.7	112	0.00
33	C	Chloroform	50.0000	50.7653	-1.5	108	0.00
34		1-Bromopropane	50.0000	92.1089	-84.2#	182	0.00
35	T	Bromochloromethane	50.0000	53.2715	-6.5	106	0.00
36	T	Tetrahydrofuran	100.0000	92.7238	7.3	93	0.00
37	S	Dibromofluoromethane	25.0000	24.8392	0.6	103	0.00
38	T	1,1,1-Trichloroethane	50.0000	53.3594	-6.7	110	0.00
39	T	Cyclohexane	50.0000	66.6232	-33.2#	143	-0.01
40	T	1,1-Dichloropropene	50.0000	52.3598	-4.7	109	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	105.2009	-5.2	108	0.00
42	T	Carbon Tetrachloride	50.0000	54.1067	-8.2	111	0.00
43	S	1,2-Dichloroethane-d4	25.0000	23.4838	6.1	97	0.00
44		Heptane	-1.0000	0.0000	0.0	107	-0.01
45	T	1,2-Dichloroethane	50.0000	51.3796	-2.8	107	0.00
46	T	Benzene	50.0000	52.0123	-4.0	110	0.00
47	T	Trichloroethene	50.0000	53.4719	-6.9	111	0.00
48	T	Methylcyclohexane	50.0000	64.7690	-29.5#	136	0.00
49	C	1,2-Dichloropropane	50.0000	52.5074	-5.0	110	0.00
50	T	1,4-Dioxane	200.0000	225.5630	-12.8	108	0.00
51	T	Bromodichloromethane	50.0000	52.4497	-4.9	107	0.00
52	T	Dibromomethane	50.0000	49.8638	0.3	101	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	54.1491	-8.3	105	0.00
54	T	4-Methyl-2-Pentanone	50.0000	49.6618	0.7	98	0.00

(#) = Out of Range
6M139191.D 8260WTR.M Thu May 12 12:58:14 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\051116\6M139191.D Vial: 15
Acq On : 11 May 2016 18:17 Operator: FJB
Sample : WG568265-12 50ug/L ALT SRC STD 8260 Inst : HPMS6
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 09:29:09 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	50.0000	57.8970	-15.8	118	0.00
56	T	Dimethyl Disulfide	50.0000	58.5968	-17.2	121	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	104	0.00
58	S	Toluene-d8	25.0000	24.3991	2.4	103	0.00
59	C	Toluene	50.0000	52.1286	-4.3	110	0.00
60	T	Ethyl Methacrylate	50.0000	50.8077	-1.6	107	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	114	0.00
62	T	trans-1,3-Dichloropropene	50.0000	52.4862	-5.0	109	0.00
63	T	1,1,2-Trichloroethane	50.0000	50.8366	-1.7	106	0.00
64	T	2-Hexanone	50.0000	46.8854	6.2	97	0.00
65	T	1,3-Dichloropropane	50.0000	52.7870	-5.6	110	0.00
66	T	Tetrachloroethene	50.0000	51.5097	-3.0	110	0.00
67	T	Dibromochloromethane	50.0000	52.9511	-5.9	105	0.00
68	T	1,2-Dibromoethane	50.0000	51.0281	-2.1	104	0.00
69	T	1-Chlorohexane	50.0000	54.5149	-9.0	119	0.00
70	P	Chlorobenzene	50.0000	52.7348	-5.5	111	0.00
71	T	1,1,1,2-Tetrachloroethane	50.0000	53.1196	-6.2	108	0.00
72	C	Ethylbenzene	50.0000	52.4124	-4.8	110	0.00
73	T	m-,p-Xylene	100.0000	106.4245	-6.4	112	0.00
74	T	o-Xylene	50.0000	53.1101	-6.2	112	0.00
75	T	Styrene	50.0000	52.0307	-4.1	107	0.00
76	P	Bromoform	50.0000	49.1867	1.6	98	0.00
77	T	Isopropylbenzene	50.0000	53.3769	-6.8	111	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	103	0.00
79	P	1,1,2,2-Tetrachloroethane	50.0000	49.5252	0.9	103	0.00
80	S	p-Bromofluorobenzene	25.0000	24.2762	2.9	102	0.00
81	T	1,2,3-Trichloropropane	50.0000	50.3194	-0.6	102	0.00
82	T	trans-1,4-Dichloro-2-Butene	50.0000	42.1178	15.8	84	0.00
83	T	n-Propylbenzene	50.0000	53.8978	-7.8	112	0.00
84	T	Bromobenzene	50.0000	48.4128	3.2	105	0.00
85	T	1,3,5-Trimethylbenzene	50.0000	51.8127	-3.6	108	0.00
86	T	2-Chlorotoluene	50.0000	50.4065	-0.8	108	0.00
87	T	4-Chlorotoluene	50.0000	53.0036	-6.0	112	0.00
88	T	a-Methylstyrene	50.0000	56.3658	-12.7	117	0.00
89	T	tert-Butylbenzene	50.0000	52.9866	-6.0	112	0.00
90	T	1,2,4-Trimethylbenzene	50.0000	51.1873	-2.4	105	0.00
91	T	sec-Butylbenzene	50.0000	53.9755	-8.0	110	0.00
92	T	p-Isopropyltoluene	50.0000	52.9798	-6.0	108	0.00
93	T	1,3-Dichlorobenzene	50.0000	50.9819	-2.0	107	0.00
94	T	1,4-Dichlorobenzene	50.0000	51.1831	-2.4	109	0.00
95	T	n-Butylbenzene	50.0000	52.7602	-5.5	108	0.00
96	T	1,2-Dichlorobenzene	50.0000	51.2963	-2.6	109	0.00
97	T	1,2-Dibromo-3-Chloropropane	50.0000	50.1910	-0.4	99	0.00
98	T	1,2,4-Trichlorobenzene	50.0000	52.2895	-4.6	109	0.00
99	T	Hexachlorobutadiene	50.0000	57.3117	-14.6	122	0.00
100	T	Naphthalene	50.0000	45.6788	8.6	91	0.00
101	T	1,2,3-Trichlorobenzene	50.0000	49.6005	0.8	105	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M139191.D 8260WTR.M Thu May 12 12:58:14 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\051316\8M412220.D Vial: 3
Acq On : 13 May 2016 13:29 Operator: TMB
Sample : WG568561-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 11:40:52 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	823748	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	571926	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	299321	25.00	ug/L		0.00
System Monitoring Compounds							
37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L		
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#			
43) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/L		
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#			
58) Toluene-d8	12.68	98	567	0.0189	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.08%#			
80) p-Bromofluorobenzene	16.08	95	313	0.0253	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.12%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.17	85	3836	0.2778	ug/L		91
3) Chloromethane	3.62	50	3658	0.4537	ug/L		95
4) Vinyl Chloride	3.85	62	2516	0.2630	ug/L	#	58
5) 1,3-Butadiene	3.91	54	2079	0.2592	ug/L		71
6) Bromomethane	4.73	94	1152	0.6530	ug/L	#	55
7) Chloroethane	4.90	64	1112	0.2113	ug/L	#	72
8) Trichlorofluoromethane	5.35	101	2706	0.1520	ug/L	#	53
10) Isoprene	5.93	67	2147	0.1987	ug/L		85
12) 1,1,2-Trichloro-1,2,2-Trif	6.15	101	1746	0.2087	ug/L		97
14) 1,1-Dichloroethene	6.48	61	3332	0.2501	ug/L		75
16) Dimethyl Sulfide	6.73	62	1099	0.2308	ug/L		95
19) Methylene Chloride	7.26	84	3414	0.4028	ug/L		88
20) Carbon Disulfide	7.30	76	10739	0.3853	ug/L		97
22) Methyl Tert Butyl Ether	7.47	73	4927	0.2686	ug/L	#	60
23) trans-1,2-Dichloroethene	7.70	61	3879	0.3170	ug/L		98
24) n-Hexane	7.78	57	2794	0.3075	ug/L		85
26) Vinyl Acetate	8.30	43	1973	0.2259	ug/L	#	70
27) 1,1-Dichloroethane	8.33	63	4881	0.3212	ug/L	#	88
31) 2,2-Dichloropropane	9.11	77	4966	0.3101	ug/L		89
32) cis-1,2-Dichloroethene	9.17	96	2958	0.3128	ug/L		87
33) Chloroform	9.37	83	5564	0.3101	ug/L		95
34) 1-Bromopropane	9.52	122	210	0.1551	ug/L	#	1
35) Bromochloromethane	9.60	130	1386	0.2858	ug/L		76
36) Tetrahydrofuran	9.62	42	1849	2.0617	ug/L	#	60
38) 1,1,1-Trichloroethane	9.91	97	4978	0.2921	ug/L		95
39) Cyclohexane	9.93	56	3120	0.2644	ug/L	#	85
40) 1,1-Dichloropropene	10.11	75	3779	0.2909	ug/L		97
42) Carbon Tetrachloride	10.24	117	4835	0.3194	ug/L	#	74
45) 1,2-Dichloroethane	10.43	62	3295	0.2853	ug/L	#	81
46) Benzene	10.46	78	11279	0.3333	ug/L		93
47) Trichloroethene	11.20	130	2410	0.2670	ug/L		97
48) Methylcyclohexane	11.31	83	3936	0.2871	ug/L		84
49) 1,2-Dichloropropane	11.42	63	2136	0.2836	ug/L		88
50) Bromodichloromethane	11.73	83	3767	0.2845	ug/L	#	91
52) Dibromomethane	11.82	93	700	0.1570	ug/L	#	59
53) 2-Chloroethyl Vinyl Ether	12.02	63	847	0.2616	ug/L	#	47
55) cis-1,3-Dichloropropene	12.36	75	4763	0.3535	ug/L		84
56) Dimethyl Disulfide	12.63	79	1647	0.2290	ug/L		82
59) Toluene	12.78	91	11513	0.3243	ug/L		92
60) Ethyl Methacrylate	12.89	69	1631	0.2392	ug/L	#	64

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\2\DATA\051316\8M412220.D Vial: 3
Acq On : 13 May 2016 13:29 Operator: TMB
Sample : WG568561-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 11:40:52 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
62)	trans-1,3-Dichloropropene	12.96	75	3626	0.3047 ug/L		82
63)	1,1,2-Trichloroethane	13.18	97	1409	0.2515 ug/L		98
65)	1,3-Dichloropropane	13.49	76	2584	0.2590 ug/L		93
66)	Tetrachloroethene	13.61	164	2678	0.3520 ug/L	#	75
67)	Dibromochloromethane	13.87	129	2126	0.2599 ug/L		79
68)	1,2-Dibromoethane	14.12	107	1895	0.3394 ug/L		91
69)	1-Chlorohexane	14.21	91	3835	0.3164 ug/L		99
70)	Chlorobenzene	14.62	112	7968	0.3328 ug/L		88
71)	1,1,1,2-Tetrachloroethane	14.67	131	2872	0.3096 ug/L		87
72)	Ethylbenzene	14.64	106	3844	0.2934 ug/L		81
73)	m-,p-Xylene	14.75	106	10447	0.6799 ug/L		96
74)	o-Xylene	15.31	106	4577	0.3047 ug/L		97
75)	Styrene	15.35	104	7545	0.3062 ug/L		95
76)	Bromoform	15.84	173	1301	0.2681 ug/L	#	51
77)	Isopropylbenzene	15.74	105	13119	0.3287 ug/L		90
79)	1,1,2,2-Tetrachloroethane	15.96	83	1714	0.2853 ug/L	#	85
83)	n-Propylbenzene	16.24	91	15676	0.3357 ug/L		92
84)	Bromobenzene	16.38	156	2859	0.2977 ug/L		90
85)	1,3,5-Trimethylbenzene	16.43	105	10873	0.3196 ug/L		99
86)	2-Chlorotoluene	16.52	91	11133	0.3415 ug/L		96
87)	4-Chlorotoluene	16.56	91	10305	0.3499 ug/L		97
88)	a-Methylstyrene	16.83	118	4090	0.2534 ug/L		86
89)	tert-Butylbenzene	16.90	134	1734	0.2606 ug/L		72
90)	1,2,4-Trimethylbenzene	16.95	105	10734	0.3069 ug/L		89
91)	sec-Butylbenzene	17.16	105	13749	0.3436 ug/L		97
92)	p-Isopropyltoluene	17.32	119	10847	0.3192 ug/L		95
93)	1,3-Dichlorobenzene	17.52	146	6023	0.3257 ug/L		99
94)	1,4-Dichlorobenzene	17.65	146	6152	0.3299 ug/L	#	60
95)	n-Butylbenzene	17.85	91	11161	0.3323 ug/L		97
96)	1,2-Dichlorobenzene	18.14	146	5711	0.3472 ug/L		92
98)	1,2,4-Trichlorobenzene	20.29	180	4203	0.3418 ug/L		91
99)	Hexachlorobutadiene	20.43	225	1894	0.3297 ug/L		84
100)	Naphthalene	20.65	128	6039	0.3306 ug/L		91
101)	1,2,3-Trichlorobenzene	20.96	180	3279	0.3161 ug/L		86

(#) = qualifier out of range (m) = manual integration
8M412220.D 8260WT.M Tue May 17 11:40:55 2016 Page 2

Data File : C:\MSDCHEM\2\DATA\051316\8M412220.D Vial: 3
Acq On : 13 May 2016 13:29 Operator: TMB
Sample : WG568561-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:03:01 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	-1.0000	0.2778	0.0	100	0.00
3	P	Chloromethane	-1.0000	0.4537	0.0	100	0.00
4	C	Vinyl Chloride	-1.0000	0.2630	0.0	100	0.00
5	T	1,3-Butadiene	-1.0000	0.2592	0.0	100	0.03
6	T	Bromomethane	-1.0000	0.9911	0.0	100	0.00
7	T	Chloroethane	-1.0000	0.2113	0.0	100	0.00
8	T	Trichlorofluoromethane	-1.0000	0.1520	0.0	100	-0.02
9	T	Diethyl ether	-1.0000	0.0000	0.0	0	-5.90#
10	T	Isoprene	-1.0000	0.1987	0.0	100	0.00
11	T	Acrolein	-1.0000	0.0000	0.0	0	-6.13#
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.0000	0.2087	0.0	100	0.00
13	T	Acetone	-1.0000	0.0000	0.0	0	-6.25#
14	C	1,1-Dichloroethene	-1.0000	0.2501	0.0	100	0.02
15	T	Tert-Butyl Alcohol	-1.0000	0.0000	0.0	0	-6.58#
16	T	Dimethyl Sulfide	-1.0000	0.2308	0.0	100	0.00
17	T	Iodomethane	-1.0000	0.0000	0.0	0	-6.98#
18	T	Methyl acetate	-1.0000	0.0000	0.0	0	-7.00#
19	T	Methylene Chloride	-1.0000	0.4028	0.0	100	0.00
20	T	Carbon Disulfide	-1.0000	0.3853	0.0	100	0.00
21	T	Acrylonitrile	-1.0000	0.0000	0.0	0	-7.43#
22	T	Methyl Tert Butyl Ether	-1.0000	0.2686	0.0	100	0.00
23	T	trans-1,2-Dichloroethene	-1.0000	0.3170	0.0	100	0.00
24	T	n-Hexane	-1.0000	0.3075	0.0	100	0.00
25	T	Diisopropyl ether	-1.0000	0.0000	0.0	0	-8.13#
26	T	Vinyl Acetate	-1.0000	0.2259	0.0	100	0.00
27	P	1,1-Dichloroethane	-1.0000	0.3212	0.0	100	0.00
28	T	Ethyl-Tert-Butyl ether	-1.0000	0.0000	0.0	0	-8.71#
29	T	2-Butanone	-1.0000	0.0000	0.0	0	-8.88#
30	T	Propionitrile	-1.0000	0.0000	0.0	0	-8.98#
31	T	2,2-Dichloropropane	-1.0000	0.3101	0.0	100	0.00
32	T	cis-1,2-Dichloroethene	-1.0000	0.3128	0.0	100	0.00
33	C	Chloroform	0.3000	0.3101	-3.4	100	0.00
34		1-Bromopropane	-1.0000	0.1551	0.0	100	0.00
35	T	Bromochloromethane	-1.0000	0.2858	0.0	100	0.00
36	T	Tetrahydrofuran	-1.0000	2.0617	0.0	100	-0.01
37	S	Dibromofluoromethane	-1.0000	0.0000	0.0	0	-9.67#
38	T	1,1,1-Trichloroethane	-1.0000	0.2921	0.0	100	0.00
39	T	Cyclohexane	-1.0000	0.2644	0.0	100	0.00
40	T	1,1-Dichloropropene	-1.0000	0.2909	0.0	100	0.00
41	T	Tert-Amyl-Methyl ether	-1.0000	0.0000	0.0	0	-10.21#
42	T	Carbon Tetrachloride	-1.0000	0.3194	0.0	100	0.00
43	S	1,2-Dichloroethane-d4	-1.0000	0.0000	0.0	0	-10.31#
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	-1.0000	0.2853	0.0	100	0.00
46	T	Benzene	-1.0000	0.3333	0.0	100	0.00
47	T	Trichloroethene	-1.0000	0.2670	0.0	100	-0.01
48	T	Methylcyclohexane	-1.0000	0.2871	0.0	100	0.00
49	C	1,2-Dichloropropane	-1.0000	0.2836	0.0	100	0.00
50	T	Bromodichloromethane	-1.0000	0.2845	0.0	100	0.00
51	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-11.71#
52	T	Dibromomethane	-1.0000	0.1570	0.0	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.2616	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.0000	0.0	0	-12.05#

(#) = Out of Range
8M412220.D 8260WT.M Sat May 14 18:03:33 2016 Page 1

Data File : C:\MSDCHEM\2\DATA\051316\8M412220.D Vial: 3
Acq On : 13 May 2016 13:29 Operator: TMB
Sample : WG568561-02 0.3ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:03:01 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	-1.0000	0.3535	0.0	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.2290	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	-1.0000	0.0189	0.0	100	0.00
59	C	Toluene	-1.0000	0.3243	0.0	100	0.00
60	T	Ethyl Methacrylate	-1.0000	0.2392	0.0	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	-1.0000	0.3047	0.0	100	0.00
63	T	1,1,2-Trichloroethane	-1.0000	0.2515	0.0	100	0.00
64	T	2-Hexanone	-1.0000	0.0000	0.0	0	-13.12#
65	T	1,3-Dichloropropane	-1.0000	0.2590	0.0	100	0.00
66	T	Tetrachloroethene	-1.0000	0.3520	0.0	100	0.00
67	T	Dibromochloromethane	-1.0000	0.2599	0.0	100	0.00
68	T	1,2-Dibromoethane	-1.0000	0.3394	0.0	100	0.00
69	T	1-Chlorohexane	-1.0000	0.3164	0.0	100	0.00
70	P	Chlorobenzene	-1.0000	0.3328	0.0	100	0.00
71	T	1,1,1,2-Tetrachloroethane	-1.0000	0.3096	0.0	100	0.00
72	C	Ethylbenzene	-1.0000	0.2934	0.0	100	-0.01
73	T	m-,p-Xylene	-1.0000	0.6799	0.0	100	0.00
74	T	o-Xylene	-1.0000	0.3047	0.0	100	0.00
75	T	Styrene	-1.0000	0.3062	0.0	100	0.00
76	P	Bromoform	-1.0000	0.2681	0.0	100	0.00
77	T	Isopropylbenzene	-1.0000	0.3287	0.0	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	-1.0000	0.2853	0.0	100	0.00
80	S	p-Bromofluorobenzene	-1.0000	0.0253	0.0	100	0.00
81	T	1,2,3-Trichloropropane	-1.0000	0.1103	0.0	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	-1.0000	0.0000	0.0	0	-16.19#
83	T	n-Propylbenzene	-1.0000	0.3357	0.0	100	0.00
84	T	Bromobenzene	0.3000	0.2977	0.8	100	0.00
85	T	1,3,5-Trimethylbenzene	-1.0000	0.3196	0.0	100	0.00
86	T	2-Chlorotoluene	-1.0000	0.3415	0.0	100	0.00
87	T	4-Chlorotoluene	-1.0000	0.3499	0.0	100	0.00
88	T	a-Methylstyrene	-1.0000	0.2534	0.0	100	0.00
89	T	tert-Butylbenzene	-1.0000	0.2606	0.0	100	0.00
90	T	1,2,4-Trimethylbenzene	-1.0000	0.3069	0.0	100	0.00
91	T	sec-Butylbenzene	-1.0000	0.3436	0.0	100	0.00
92	T	p-Isopropyltoluene	-1.0000	0.3192	0.0	100	0.00
93	T	1,3-Dichlorobenzene	-1.0000	0.3257	0.0	100	0.00
94	T	1,4-Dichlorobenzene	0.3000	0.3299	-10.0	100	0.00
95	T	n-Butylbenzene	-1.0000	0.3323	0.0	100	0.00
96	T	1,2-Dichlorobenzene	0.3000	0.3472	-15.7	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.0000	0.0	0	-19.13#
98	T	1,2,4-Trichlorobenzene	-1.0000	0.3418	0.0	100	0.00
99	T	Hexachlorobutadiene	-1.0000	0.3297	0.0	100	0.00
100	T	Naphthalene	-1.0000	0.3306	0.0	100	0.00
101	T	1,2,3-Trichlorobenzene	0.3000	0.3161	-5.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412220.D 8260WT.M Sat May 14 18:03:34 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\051316\8M412221.D Vial: 4
Acq On : 13 May 2016 13:58 Operator: TMB
Sample : WG568561-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 14:20:36 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	801173	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	557498	25.00	ug/L		0.01
78) 1,4-Dichlorobenzene-d4	17.60	152	293108	25.00	ug/L		0.01
System Monitoring Compounds							
37) Dibromofluoromethane	0.00	111	0	0.0000	ug/L		
Spiked Amount 25.000	Range 86 - 118		Recovery =	0.00%#			
43) 1,2-Dichloroethane-d4	0.00	65	0	0.0000	ug/L		
Spiked Amount 25.000	Range 80 - 120		Recovery =	0.00%#			
58) Toluene-d8	0.00	98	0	0.0000	ug/L		
Spiked Amount 25.000	Range 88 - 110		Recovery =	0.00%#			
80) p-Bromofluorobenzene	16.08	95	343	0.0286	ug/L		0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	0.12%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.16	85	5478	0.3262	ug/L		79
3) Chloromethane	3.63	50	3930	0.2484	ug/L		85
4) Vinyl Chloride	3.84	62	3512	0.3288	ug/L		97
5) 1,3-Butadiene	3.90	54	2479	0.2375	ug/L	#	75
6) Bromomethane	4.73	94	1343	0.9497	ug/L		85
7) Chloroethane	4.90	64	2219	0.3174	ug/L	#	43
8) Trichlorofluoromethane	5.36	101	6974	0.3289	ug/L	#	93
10) Isoprene	5.94	67	4288	0.3952	ug/L	#	62
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	3168	0.3263	ug/L	#	40
14) 1,1-Dichloroethene	6.47	61	5431	0.2882	ug/L		92
16) Dimethyl Sulfide	6.74	62	1708	0.2453	ug/L		64
19) Methylene Chloride	7.24	84	3785	0.4239	ug/L	#	43
20) Carbon Disulfide	7.29	76	12437	0.4565	ug/L		97
22) Methyl Tert Butyl Ether	7.47	73	6580	0.3336	ug/L	#	76
23) trans-1,2-Dichloroethene	7.71	61	4990	0.2928	ug/L		96
24) n-Hexane	7.79	57	3110	0.2011	ug/L		99
26) Vinyl Acetate	8.31	43	2753	0.1566	ug/L		100
27) 1,1-Dichloroethane	8.32	63	5655	0.2774	ug/L	#	92
31) 2,2-Dichloropropane	9.10	77	6035	0.3360	ug/L		82
32) cis-1,2-Dichloroethene	9.16	96	3837	0.3762	ug/L		74
33) Chloroform	9.37	83	7267	0.3842	ug/L		100
34) 1-Bromopropane	9.50	122	234	0.1456	ug/L	#	1
35) Bromochloromethane	9.60	130	1674	0.3137	ug/L		62
36) Tetrahydrofuran	9.62	42	447	0.2146	ug/L	#	41
38) 1,1,1-Trichloroethane	9.91	97	6304	0.3305	ug/L		90
39) Cyclohexane	9.94	56	4658	0.2238	ug/L	#	67
40) 1,1-Dichloropropene	10.11	75	5172	0.3768	ug/L		80
42) Carbon Tetrachloride	10.25	117	5692	0.3172	ug/L		95
45) 1,2-Dichloroethane	10.43	62	4443	0.2796	ug/L	#	63
46) Benzene	10.46	78	14456	0.4134	ug/L	#	77
47) Trichloroethene	11.21	130	3659	0.3626	ug/L		98
48) Methylcyclohexane	11.29	83	5025	0.3562	ug/L		84
49) 1,2-Dichloropropane	11.42	63	3060	0.3007	ug/L		98
50) Bromodichloromethane	11.73	83	4734	0.3343	ug/L	#	93
52) Dibromomethane	11.82	93	1805	0.3767	ug/L		84
55) cis-1,3-Dichloropropene	12.36	75	5008	0.3514	ug/L		90
56) Dimethyl Disulfide	12.63	79	1921	0.2573	ug/L		85
59) Toluene	12.78	91	14742	0.4416	ug/L		98
60) Ethyl Methacrylate	12.90	69	2062	0.3292	ug/L		66
62) trans-1,3-Dichloropropene	12.96	75	3693	0.3171	ug/L		100

(#) = qualifier out of range (m) = manual integration
8M412221.D 8260WT.M Fri May 13 14:20:38 2016 Page 1

Data File : C:\MSDchem\2\data\051316\8M412221.D Vial: 4
Acq On : 13 May 2016 13:58 Operator: TMB
Sample : WG568561-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 14:20:36 2016 Quant Results File: 8260WT.RES

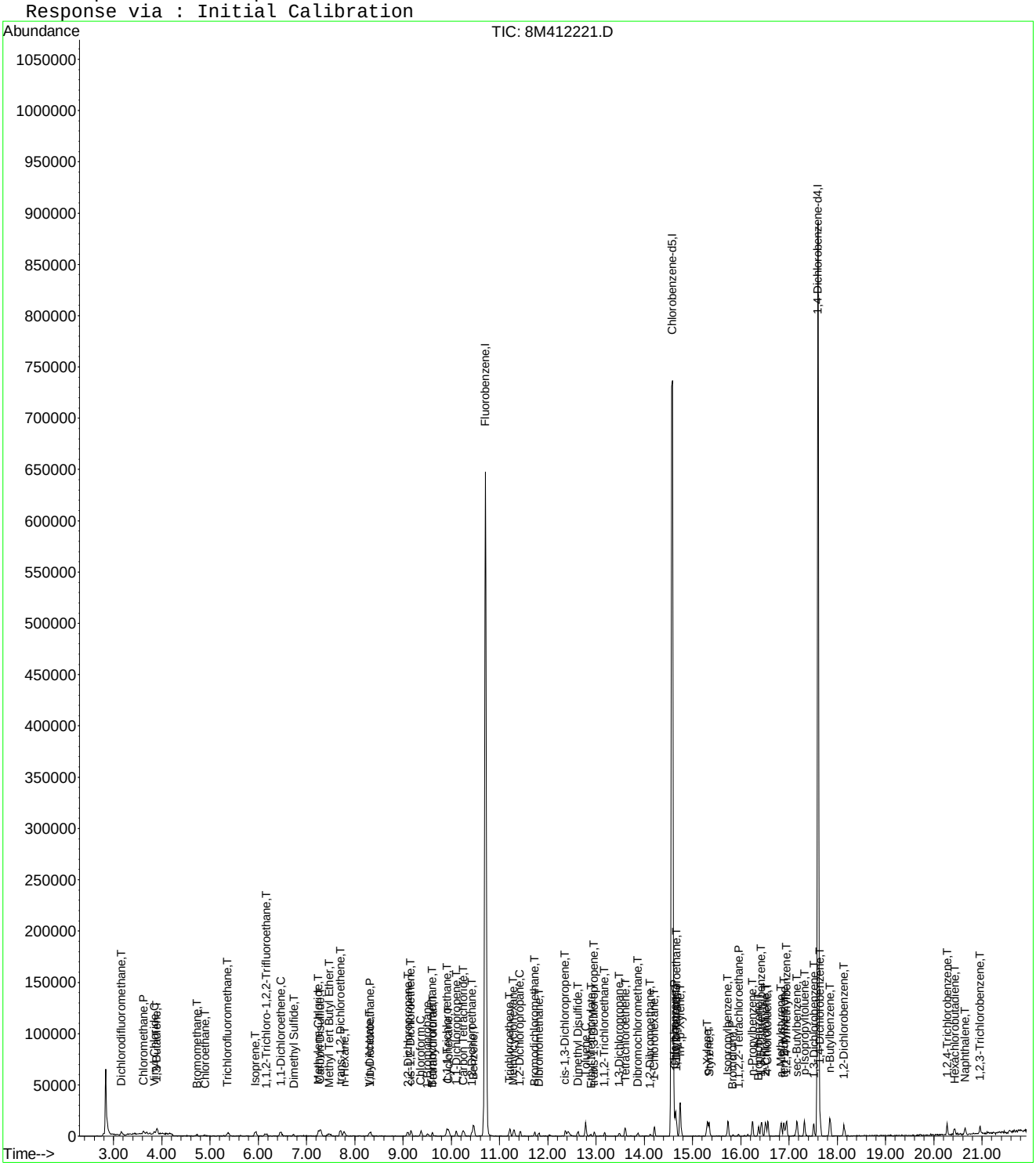
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
63)	1,1,2-Trichloroethane	13.18	97	2326	0.4391 ug/L		70
65)	1,3-Dichloropropane	13.49	76	3163	0.3219 ug/L		88
66)	Tetrachloroethene	13.61	164	3164	0.4185 ug/L		93
67)	Dibromochloromethane	13.87	129	3113	0.3727 ug/L		86
68)	1,2-Dibromoethane	14.12	107	2076	0.3760 ug/L		90
69)	1-Chlorohexane	14.21	91	4746	0.4174 ug/L		80
70)	Chlorobenzene	14.62	112	9180	0.3960 ug/L		98
71)	1,1,1,2-Tetrachloroethane	14.66	131	3501	0.3876 ug/L		95
72)	Ethylbenzene	14.65	106	5348	0.4066 ug/L		84
73)	m-,p-Xylene	14.75	106	13269	0.8757 ug/L		89
74)	o-Xylene	15.31	106	6019	0.3943 ug/L		97
75)	Styrene	15.35	104	9370	0.3849 ug/L		95
76)	Bromoform	15.83	173	1198	0.2500 ug/L	#	76
77)	Isopropylbenzene	15.73	105	16528	0.4270 ug/L		92
79)	1,1,2,2-Tetrachloroethane	15.96	83	1999	0.3419 ug/L	#	83
83)	n-Propylbenzene	16.25	91	19410	0.4297 ug/L		95
84)	Bromobenzene	16.37	156	3319	0.3524 ug/L		75
85)	1,3,5-Trimethylbenzene	16.42	105	13794	0.4127 ug/L		95
86)	2-Chlorotoluene	16.51	91	13678	0.4729 ug/L		90
87)	4-Chlorotoluene	16.56	91	12572	0.4219 ug/L		98
88)	a-Methylstyrene	16.84	118	5739	0.3485 ug/L		96
89)	tert-Butylbenzene	16.90	134	2254	0.3403 ug/L		55
90)	1,2,4-Trimethylbenzene	16.95	105	13859	0.4051 ug/L		90
91)	sec-Butylbenzene	17.17	105	17612	0.4382 ug/L		90
92)	p-Isopropyltoluene	17.32	119	13616	0.3968 ug/L		90
93)	1,3-Dichlorobenzene	17.52	146	6961	0.3724 ug/L		86
94)	1,4-Dichlorobenzene	17.64	146	7149	0.3832 ug/L	#	1
95)	n-Butylbenzene	17.85	91	15223	0.4664 ug/L		91
96)	1,2-Dichlorobenzene	18.14	146	6129	0.3742 ug/L		92
98)	1,2,4-Trichlorobenzene	20.28	180	5035	0.3969 ug/L		97
99)	Hexachlorobutadiene	20.44	225	2420	0.4122 ug/L		83
100)	Naphthalene	20.65	128	7474	0.3874 ug/L	#	84
101)	1,2,3-Trichlorobenzene	20.96	180	4378	0.4056 ug/L	#	78

(#) = qualifier out of range (m) = manual integration
8M412221.D 8260WT.M Fri May 13 14:20:39 2016 Page 2

Data File : C:\MSDchem\2\data\051316\8M412221.D Vial: 4
Acq On : 13 May 2016 13:58 Operator: TMB
Sample : WG568561-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 14:20 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\2\DATA\051316\8M412221.D Vial: 4
Acq On : 13 May 2016 13:58 Operator: TMB
Sample : WG568561-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:03:01 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	0.4000	0.4078	-2.0	100	0.00
3	P	Chloromethane	-1.0000	0.5012	0.0	100	0.00
4	C	Vinyl Chloride	0.4000	0.3775	5.6	100	0.00
5	T	1,3-Butadiene	-1.0000	0.3178	0.0	100	0.02
6	T	Bromomethane	-1.0000	1.0253	0.0	100	0.00
7	T	Chloroethane	0.4000	0.4335	-8.4	100	0.00
8	T	Trichlorofluoromethane	0.4000	0.4029	-0.7	100	-0.01
9	T	Diethyl ether	-1.0000	0.0000	0.0	0	-5.90#
10	T	Isoprene	0.4000	0.4079	-2.0	100	0.00
11	T	Acrolein	-1.0000	0.0000	0.0	0	-6.13#
12	T	1,1,2-Trichloro-1,2,2-Trifl	-1.0000	0.3894	0.0	100	0.02
13	T	Acetone	-1.0000	0.0000	0.0	0	-6.25#
14	C	1,1-Dichloroethene	0.4000	0.4192	-4.8	100	0.00
15	T	Tert-Butyl Alcohol	-1.0000	0.0000	0.0	0	-6.58#
16	T	Dimethyl Sulfide	0.4000	0.3687	7.8	100	0.00
17	T	Iodomethane	-1.0000	0.0000	0.0	0	-6.98#
18	T	Methyl acetate	-1.0000	0.2179	0.0	100	0.00
19	T	Methylene Chloride	-1.0000	0.4591	0.0	100	0.00
20	T	Carbon Disulfide	-1.0000	0.4587	0.0	100	0.00
21	T	Acrylonitrile	-1.0000	0.0000	0.0	0	-7.43#
22	T	Methyl Tert Butyl Ether	-1.0000	0.3688	0.0	100	0.00
23	T	trans-1,2-Dichloroethene	0.4000	0.4193	-4.8	100	0.00
24	T	n-Hexane	-1.0000	0.3519	0.0	100	0.00
25	T	Diisopropyl ether	-1.0000	0.0000	0.0	0	-8.13#
26	T	Vinyl Acetate	-1.0000	0.3241	0.0	100	0.02
27	P	1,1-Dichloroethane	0.4000	0.3826	4.4	100	0.00
28	T	Ethyl-Tert-Butyl ether	-1.0000	0.0000	0.0	0	-8.71#
29	T	2-Butanone	-1.0000	0.0000	0.0	0	-8.88#
30	T	Propionitrile	-1.0000	0.0000	0.0	0	-8.98#
31	T	2,2-Dichloropropane	0.4000	0.3874	3.1	100	0.00
32	T	cis-1,2-Dichloroethene	0.4000	0.4172	-4.3	100	-0.01
33	C	Chloroform	0.4000	0.4164	-4.1	100	0.00
34		1-Bromopropane	-1.0000	0.1776	0.0	100	-0.01
35	T	Bromochloromethane	0.4000	0.3550	11.3	100	0.00
36	T	Tetrahydrofuran	-1.0000	0.5125	0.0	100	-0.01
37	S	Dibromofluoromethane	-1.0000	0.0000	0.0	0	-9.67#
38	T	1,1,1-Trichloroethane	0.4000	0.3803	4.9	100	0.00
39	T	Cyclohexane	-1.0000	0.4058	0.0	100	0.00
40	T	1,1-Dichloropropene	-1.0000	0.4093	0.0	100	0.00
41	T	Tert-Amyl-Methyl ether	-1.0000	0.0000	0.0	0	-10.21#
42	T	Carbon Tetrachloride	0.4000	0.3867	3.3	100	0.00
43	S	1,2-Dichloroethane-d4	-1.0000	0.0000	0.0	0	-10.31#
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	0.4000	0.3955	1.1	100	0.00
46	T	Benzene	0.4000	0.4393	-9.8	100	0.00
47	T	Trichloroethene	0.4000	0.4169	-4.2	100	0.00
48	T	Methylcyclohexane	-1.0000	0.3768	0.0	100	-0.01
49	C	1,2-Dichloropropane	0.4000	0.4177	-4.4	100	0.00
50	T	Bromodichloromethane	0.4000	0.3676	8.1	100	0.00
51	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-11.71#
52	T	Dibromomethane	0.4000	0.4162	-4.1	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.1401	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.0000	0.0	0	-12.05#

(#) = Out of Range
8M412221.D 8260WT.M Sat May 14 18:03:54 2016 Page 1

Data File : C:\MSDCHEM\2\DATA\051316\8M412221.D Vial: 4
Acq On : 13 May 2016 13:58 Operator: TMB
Sample : WG568561-03 0.4ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:03:01 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	0.4000	0.3821	4.5	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.2746	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	-1.0000	0.0000	0.0	0	-12.68#
59	C	Toluene	0.4000	0.4259	-6.5	100	0.00
60	T	Ethyl Methacrylate	-1.0000	0.3102	0.0	100	0.02
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	-1.0000	0.3184	0.0	100	0.00
63	T	1,1,2-Trichloroethane	0.4000	0.4259	-6.5	100	0.00
64	T	2-Hexanone	-1.0000	0.0000	0.0	0	-13.12#
65	T	1,3-Dichloropropane	0.4000	0.3253	18.7	100	0.00
66	T	Tetrachloroethene	0.4000	0.4267	-6.7	100	0.00
67	T	Dibromochloromethane	0.4000	0.3904	2.4	100	0.00
68	T	1,2-Dibromoethane	0.4000	0.3814	4.6	100	0.00
69	T	1-Chlorohexane	0.4000	0.4017	-0.4	100	0.00
70	P	Chlorobenzene	0.4000	0.3933	1.7	100	0.00
71	T	1,1,1,2-Tetrachloroethane	0.4000	0.3872	3.2	100	0.00
72	C	Ethylbenzene	0.4000	0.4188	-4.7	100	0.00
73	T	m-,p-Xylene	0.8000	0.8859	-10.7	100	0.00
74	T	o-Xylene	-1.0000	0.4110	0.0	100	0.00
75	T	Styrene	0.4000	0.3901	2.5	100	0.00
76	P	Bromoform	-1.0000	0.2533	0.0	100	0.00
77	T	Isopropylbenzene	0.4000	0.4249	-6.2	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	0.4000	0.3398	15.1	100	0.00
80	S	p-Bromofluorobenzene	-1.0000	0.0283	0.0	100	0.00
81	T	1,2,3-Trichloropropane	-1.0000	0.0000	0.0	0	-16.14#
82	T	trans-1,4-Dichloro-2-Butene	-1.0000	0.0000	0.0	0	-16.19#
83	T	n-Propylbenzene	0.4000	0.4245	-6.1	100	0.00
84	T	Bromobenzene	0.4000	0.3529	11.8	100	0.00
85	T	1,3,5-Trimethylbenzene	0.4000	0.4141	-3.5	100	0.00
86	T	2-Chlorotoluene	0.4000	0.4284	-7.1	100	0.00
87	T	4-Chlorotoluene	0.4000	0.4359	-9.0	100	0.00
88	T	a-Methylstyrene	-1.0000	0.3631	0.0	100	0.00
89	T	tert-Butylbenzene	-1.0000	0.3459	0.0	100	0.00
90	T	1,2,4-Trimethylbenzene	0.4000	0.4046	-1.2	100	0.00
91	T	sec-Butylbenzene	-1.0000	0.4494	0.0	100	0.00
92	T	p-Isopropyltoluene	-1.0000	0.4092	0.0	100	0.00
93	T	1,3-Dichlorobenzene	0.4000	0.3844	3.9	100	0.00
94	T	1,4-Dichlorobenzene	0.4000	0.3915	2.1	100	0.00
95	T	n-Butylbenzene	-1.0000	0.4628	0.0	100	0.00
96	T	1,2-Dichlorobenzene	0.4000	0.3805	4.9	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	0.0000	0.0	0	-19.13#
98	T	1,2,4-Trichlorobenzene	0.4000	0.4182	-4.5	100	0.00
99	T	Hexachlorobutadiene	0.4000	0.4302	-7.5	100	0.00
100	T	Naphthalene	0.4000	0.4178	-4.5	100	0.00
101	T	1,2,3-Trichlorobenzene	0.4000	0.4310	-7.7	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412221.D 8260WT.M Sat May 14 18:03:56 2016 Page 2

Data File : C:\MSDchem\2\data\051316\8M412222.D Vial: 5
Acq On : 13 May 2016 14:27 Operator: TMB
Sample : WG568561-04 1ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 14:49:45 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	795577	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	547129	25.00	ug/L	0.01
78) 1,4-Dichlorobenzene-d4	17.60	152	284579	25.00	ug/L	0.01
System Monitoring Compounds						
37) Dibromofluoromethane	9.65	111	3962	0.3966	ug/L	-0.02
Spiked Amount 25.000	Range 86 - 118		Recovery =	1.60%#		
43) 1,2-Dichloroethane-d4	10.31	65	3835	0.3356	ug/L	0.01
Spiked Amount 25.000	Range 80 - 120		Recovery =	1.36%#		
58) Toluene-d8	12.68	98	14023	0.4957	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	2.00%#		
80) p-Bromofluorobenzene	16.08	95	6483	0.5565	ug/L	0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	2.24%#		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.16	85	12402	0.7438	ug/L	97
3) Chloromethane	3.62	50	8415	0.5357	ug/L #	75
4) Vinyl Chloride	3.84	62	9412	0.8873	ug/L	89
5) 1,3-Butadiene	3.90	54	6974	0.6729	ug/L	81
6) Bromomethane	4.73	94	4114	1.3123	ug/L	92
7) Chloroethane	4.90	64	4983	0.7178	ug/L #	80
8) Trichlorofluoromethane	5.38	101	17133	0.8136	ug/L #	96
9) Diethyl ether	5.90	59	20707	3.2140	ug/L	84
10) Isoprene	5.94	67	11176	1.0373	ug/L	76
11) Acrolein	6.14	56	246	0.4300	ug/L #	15
12) 1,1,2-Trichloro-1,2,2-Trif	6.15	101	8135	0.8438	ug/L	96
13) Acetone	6.24	43	413	0.2115	ug/L #	48
14) 1,1-Dichloroethene	6.46	61	12947	0.6919	ug/L	91
15) Tert-Butyl Alcohol	6.59	59	3316	7.3747	ug/L #	55
16) Dimethyl Sulfide	6.72	62	4505	0.6515	ug/L	79
18) Methyl acetate	7.00	43	2119	0.3630	ug/L #	66
19) Methylene Chloride	7.24	84	8723	0.9837	ug/L #	43
20) Carbon Disulfide	7.29	76	28246	1.0441	ug/L	100
21) Acrylonitrile	7.43	53	2164	0.8620	ug/L	76
22) Methyl Tert Butyl Ether	7.47	73	16998	0.8678	ug/L	84
23) trans-1,2-Dichloroethene	7.70	61	12571	0.7427	ug/L	100
24) n-Hexane	7.78	57	9382	0.6109	ug/L	82
25) Diisopropyl ether	8.12	45	95400	2.1939	ug/L #	91
26) Vinyl Acetate	8.30	43	6750	0.3867	ug/L #	89
27) 1,1-Dichloroethane	8.32	63	14721	0.7271	ug/L	98
28) Ethyl-Tert-Butyl ether	8.70	59	97972	3.2102	ug/L	88
29) 2-Butanone	8.88	43	380	0.1215	ug/L #	57
30) Propionitrile	8.99	54	1593	2.0138	ug/L #	56
31) 2,2-Dichloropropane	9.09	77	14691	0.8236	ug/L	98
32) cis-1,2-Dichloroethene	9.17	96	9482	0.9362	ug/L	72
33) Chloroform	9.37	83	18494	0.9845	ug/L	94
34) 1-Bromopropane	9.50	122	1092	0.6844	ug/L	80
35) Bromochloromethane	9.61	130	5234	0.9877	ug/L #	55
36) Tetrahydrofuran	9.63	42	5415	2.6185	ug/L #	68
38) 1,1,1-Trichloroethane	9.91	97	17074	0.9016	ug/L	92
39) Cyclohexane	9.94	56	11865	0.5740	ug/L #	67
40) 1,1-Dichloropropene	10.11	75	13172	0.9663	ug/L	87
41) Tert-Amyl-Methyl ether	10.21	73	90255	4.6173	ug/L #	88
42) Carbon Tetrachloride	10.25	117	14515	0.8146	ug/L	95
45) 1,2-Dichloroethane	10.42	62	10675	0.6766	ug/L	85

(#) = qualifier out of range (m) = manual integration
8M412222.D 8260WT.M Fri May 13 14:49:47 2016 Page 1

Data File : C:\MSDchem\2\data\051316\8M412222.D Vial: 5
Acq On : 13 May 2016 14:27 Operator: TMB
Sample : WG568561-04 1ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 14:49:45 2016 Quant Results File: 8260WT.RES

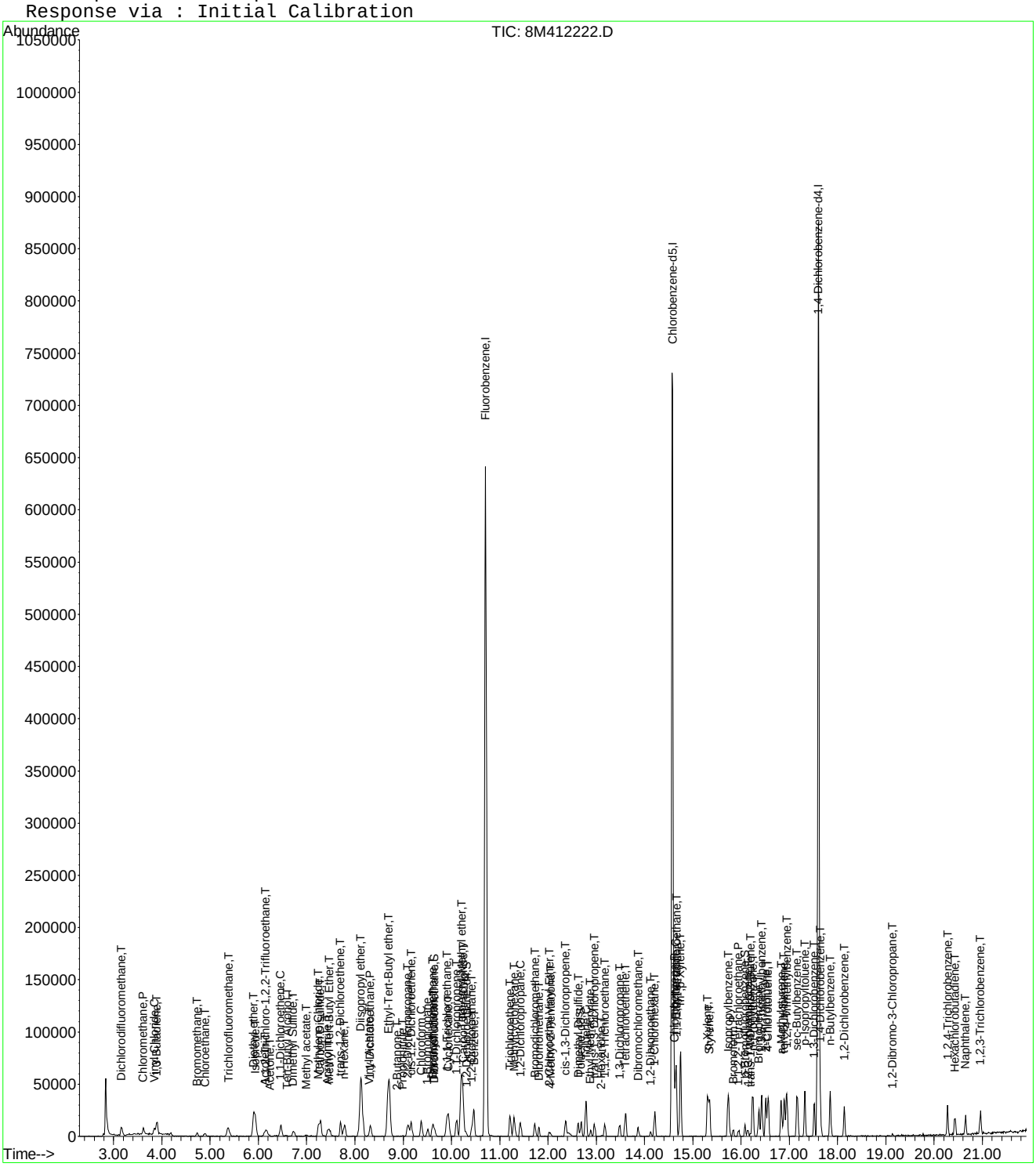
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	Benzene	10.47	78	34504	0.9938	ug/L		84
47)	Trichloroethene	11.21	130	8752	0.8735	ug/L		93
48)	Methylcyclohexane	11.30	83	13513	0.9646	ug/L		79
49)	1,2-Dichloropropane	11.43	63	7057	0.6982	ug/L	#	67
50)	Bromodichloromethane	11.73	83	12147	0.8638	ug/L		96
52)	Dibromomethane	11.81	93	4130	0.8681	ug/L		95
53)	2-Chloroethyl Vinyl Ether	12.03	63	2694	0.6366	ug/L		86
54)	4-Methyl-2-Pentanone	12.06	58	848	0.3671	ug/L	#	41
55)	cis-1,3-Dichloropropene	12.36	75	12521	0.8847	ug/L		97
56)	Dimethyl Disulfide	12.63	79	5799	0.7821	ug/L		96
59)	Toluene	12.79	91	37114	1.1328	ug/L		95
60)	Ethyl Methacrylate	12.88	69	5490	0.8930	ug/L		69
62)	trans-1,3-Dichloropropene	12.96	75	10328	0.9035	ug/L		92
63)	1,1,2-Trichloroethane	13.18	97	5274	1.0144	ug/L		93
64)	2-Hexanone	13.10	58	397	0.2127	ug/L	#	1
65)	1,3-Dichloropropane	13.49	76	9673	1.0032	ug/L		73
66)	Tetrachloroethene	13.61	164	7373	0.9937	ug/L		95
67)	Dibromochloromethane	13.87	129	7358	0.8977	ug/L		95
68)	1,2-Dibromoethane	14.13	107	5123	0.9454	ug/L		95
69)	1-Chlorohexane	14.21	91	12790	1.1461	ug/L		79
70)	Chlorobenzene	14.62	112	25662	1.1281	ug/L		89
71)	1,1,1,2-Tetrachloroethane	14.66	131	8722	0.9838	ug/L		94
72)	Ethylbenzene	14.65	106	13009	1.0078	ug/L		87
73)	m-,p-Xylene	14.75	106	30465	2.0486	ug/L		84
74)	o-Xylene	15.31	106	15133	1.0101	ug/L		84
75)	Styrene	15.35	104	23191	0.9707	ug/L		91
76)	Bromoform	15.84	173	3875	0.8240	ug/L		96
77)	Isopropylbenzene	15.74	105	41382	1.0895	ug/L		95
79)	1,1,2,2-Tetrachloroethane	15.95	83	5604	0.9873	ug/L	#	93
81)	1,2,3-Trichloropropane	16.15	110	1355	0.7428	ug/L	#	1
82)	trans-1,4-Dichloro-2-Buten	16.19	53	962	0.3479	ug/L	#	1
83)	n-Propylbenzene	16.25	91	48249	1.1002	ug/L		99
84)	Bromobenzene	16.37	156	9598	1.0497	ug/L		95
85)	1,3,5-Trimethylbenzene	16.42	105	33355	1.0278	ug/L		96
86)	2-Chlorotoluene	16.51	91	33408	1.1895	ug/L		94
87)	4-Chlorotoluene	16.56	91	29548	1.0213	ug/L		95
88)	a-Methylstyrene	16.84	118	14414	0.9014	ug/L		91
89)	tert-Butylbenzene	16.89	134	6686	1.0398	ug/L		86
90)	1,2,4-Trimethylbenzene	16.95	105	36066	1.0857	ug/L		96
91)	sec-Butylbenzene	17.16	105	42128	1.0796	ug/L		96
92)	p-Isopropyltoluene	17.32	119	35424	1.0633	ug/L		94
93)	1,3-Dichlorobenzene	17.52	146	18409	1.0144	ug/L		93
94)	1,4-Dichlorobenzene	17.64	146	19031	1.0506	ug/L	#	62
95)	n-Butylbenzene	17.85	91	35772	1.1288	ug/L		96
96)	1,2-Dichlorobenzene	18.14	146	16104	1.0126	ug/L		92
97)	1,2-Dibromo-3-Chloropropan	19.14	75	1262	1.0152	ug/L	#	53
98)	1,2,4-Trichlorobenzene	20.28	180	11494	0.9331	ug/L		98
99)	Hexachlorobutadiene	20.43	225	5421	0.9510	ug/L		98
100)	Naphthalene	20.65	128	16581	0.8853	ug/L		100
101)	1,2,3-Trichlorobenzene	20.96	180	10306	0.9835	ug/L		94

(#) = qualifier out of range (m) = manual integration
8M412222.D 8260WT.M Fri May 13 14:49:48 2016 Page 2

Data File : C:\MSDchem\2\data\051316\8M412222.D Vial: 5
Acq On : 13 May 2016 14:27 Operator: TMB
Sample : WG568561-04 1ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 14:49 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\2\DATA\051316\8M412222.D Vial: 5
Acq On : 13 May 2016 14:27 Operator: TMB
Sample : WG568561-04 1ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:05:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	1.0000	0.9298	7.0	100	0.00
3	P	Chloromethane	1.0000	1.0808	-8.1	100	0.00
4	C	Vinyl Chloride	1.0000	1.0189	-1.9	100	0.00
5	T	1,3-Butadiene	-1.0000	0.9002	0.0	100	0.02
6	T	Bromomethane	1.0000	1.2082	-20.8	100	0.00
7	T	Chloroethane	1.0000	0.9803	2.0	100	0.00
8	T	Trichlorofluoromethane	1.0000	0.9968	0.3	100	0.00
9	T	Diethyl ether	5.0000	5.0462	-0.9	100	0.00
10	T	Isoprene	1.0000	1.0707	-7.1	100	0.00
11	T	Acrolein	-1.0000	0.6696	0.0	100	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	1.0000	1.0069	-0.7	100	0.00
13	T	Acetone	-1.0000	0.4614	0.0	100	0.00
14	C	1,1-Dichloroethene	1.0000	1.0064	-0.6	100	0.00
15	T	Tert-Butyl Alcohol	-1.0000	11.5604	0.0	0	0.02
16	T	Dimethyl Sulfide	1.0000	0.9794	2.1	100	-0.01
17	T	Iodomethane	-1.0000	0.0000	0.0	0	-6.98#
18	T	Methyl acetate	-1.0000	0.8758	0.0	100	0.00
19	T	Methylene Chloride	1.0000	1.0655	-6.5	100	0.00
20	T	Carbon Disulfide	1.0000	1.0492	-4.9	100	0.00
21	T	Acrylonitrile	2.5000	1.8633	25.5#	100	0.00
22	T	Methyl Tert Butyl Ether	1.0000	0.9593	4.1	100	0.00
23	T	trans-1,2-Dichloroethene	1.0000	1.0636	-6.4	100	0.00
24	T	n-Hexane	-1.0000	1.0690	0.0	100	0.00
25	T	Diisopropyl ether	5.0000	5.1784	-3.6	100	0.00
26	T	Vinyl Acetate	-1.0000	0.8002	0.0	100	0.00
27	P	1,1-Dichloroethane	1.0000	1.0029	-0.3	100	0.00
28	T	Ethyl-Tert-Butyl ether	5.0000	4.9635	0.7	100	0.00
29	T	2-Butanone	-1.0000	0.2889	0.0	100	0.00
30	T	Propionitrile	5.0000	4.1566	16.9	100	0.00
31	T	2,2-Dichloropropane	1.0000	0.9498	5.0	100	0.00
32	T	cis-1,2-Dichloroethene	1.0000	1.0383	-3.8	100	0.00
33	C	Chloroform	1.0000	1.0671	-6.7	100	0.00
34		1-Bromopropane	1.0000	0.8348	16.5	100	-0.01
35	T	Bromochloromethane	1.0000	1.1177	-11.8	100	0.00
36	T	Tetrahydrofuran	5.0000	6.2516	-25.0#	100	0.00
37	S	Dibromofluoromethane	0.5000	0.4635	7.3	100	-0.01
38	T	1,1,1-Trichloroethane	1.0000	1.0372	-3.7	100	0.00
39	T	Cyclohexane	1.0000	1.0411	-4.1	100	0.00
40	T	1,1-Dichloropropene	1.0000	1.0498	-5.0	100	0.00
41	T	Tert-Amyl-Methyl ether	5.0000	5.0344	-0.7	100	0.00
42	T	Carbon Tetrachloride	1.0000	0.9930	0.7	100	0.00
43	S	1,2-Dichloroethane-d4	0.5000	0.4184	16.3	100	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	1.0000	0.9570	4.3	100	0.00
46	T	Benzene	1.0000	1.0558	-5.6	100	0.00
47	T	Trichloroethene	1.0000	1.0041	-0.4	100	0.00
48	T	Methylcyclohexane	-1.0000	1.0205	0.0	100	0.00
49	C	1,2-Dichloropropane	1.0000	0.9700	3.0	100	0.00
50	T	Bromodichloromethane	1.0000	0.9500	5.0	100	0.00
51	T	1,4-Dioxane	-1.0000	0.0000	0.0	0	-11.71#
52	T	Dibromomethane	1.0000	0.9590	4.1	100	0.00
53	T	2-Chloroethyl Vinyl Ether	-1.0000	0.8616	0.0	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	0.6639	0.0	100	0.00

(#) = Out of Range
8M412222.D 8260WT.M Sat May 14 18:05:49 2016 Page 1

Data File : C:\MSDCHEM\2\DATA\051316\8M412222.D Vial: 5
Acq On : 13 May 2016 14:27 Operator: TMB
Sample : WG568561-04 1ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:05:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	1.0000	0.9621	3.8	100	0.00
56	T	Dimethyl Disulfide	-1.0000	0.8348	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	0.5000	0.4897	2.1	100	0.00
59	C	Toluene	1.0000	1.0927	-9.3	100	0.00
60	T	Ethyl Methacrylate	1.0000	0.8416	15.8	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	1.0000	0.9073	9.3	100	0.00
63	T	1,1,2-Trichloroethane	1.0000	0.9840	1.6	100	0.00
64	T	2-Hexanone	-1.0000	0.3525	0.0	100	-0.01
65	T	1,3-Dichloropropane	1.0000	1.0137	-1.4	100	0.00
66	T	Tetrachloroethene	1.0000	1.0132	-1.3	100	0.00
67	T	Dibromochloromethane	1.0000	0.9402	6.0	100	0.00
68	T	1,2-Dibromoethane	1.0000	0.9590	4.1	100	0.00
69	T	1-Chlorohexane	1.0000	1.1031	-10.3	100	0.00
70	P	Chlorobenzene	1.0000	1.1204	-12.0	100	0.00
71	T	1,1,1,2-Tetrachloroethane	1.0000	0.9829	1.7	100	0.00
72	C	Ethylbenzene	1.0000	1.0381	-3.8	100	0.00
73	T	m-,p-Xylene	2.0000	2.0726	-3.6	100	0.00
74	T	o-Xylene	1.0000	1.0530	-5.3	100	0.00
75	T	Styrene	1.0000	0.9839	1.6	100	0.00
76	P	Bromoform	1.0000	0.8348	16.5	100	0.00
77	T	Isopropylbenzene	1.0000	1.0840	-8.4	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	1.0000	0.9810	1.9	100	0.00
80	S	p-Bromofluorobenzene	-1.0000	0.5502	0.0	100	0.00
81	T	1,2,3-Trichloropropane	1.0000	0.7703	23.0	100	0.02
82	T	trans-1,4-Dichloro-2-Butene	1.0000	1.1443	-14.4	100	0.00
83	T	n-Propylbenzene	1.0000	1.0868	-8.7	100	0.00
84	T	Bromobenzene	1.0000	1.0510	-5.1	100	0.00
85	T	1,3,5-Trimethylbenzene	1.0000	1.0314	-3.1	100	0.00
86	T	2-Chlorotoluene	1.0000	1.0778	-7.8	100	0.00
87	T	4-Chlorotoluene	1.0000	1.0553	-5.5	100	0.00
88	T	a-Methylstyrene	-1.0000	0.9394	0.0	100	0.00
89	T	tert-Butylbenzene	1.0000	1.0567	-5.7	100	0.00
90	T	1,2,4-Trimethylbenzene	1.0000	1.0845	-8.5	100	0.00
91	T	sec-Butylbenzene	1.0000	1.1073	-10.7	100	0.00
92	T	p-Isopropyltoluene	1.0000	1.0966	-9.7	100	0.00
93	T	1,3-Dichlorobenzene	1.0000	1.0469	-4.7	100	0.00
94	T	1,4-Dichlorobenzene	1.0000	1.0735	-7.3	100	0.00
95	T	n-Butylbenzene	1.0000	1.1201	-12.0	100	0.00
96	T	1,2-Dichlorobenzene	1.0000	1.0297	-3.0	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	-1.0000	1.1006	0.0	100	0.00
98	T	1,2,4-Trichlorobenzene	1.0000	0.9832	1.7	100	0.00
99	T	Hexachlorobutadiene	1.0000	0.9925	0.7	100	0.00
100	T	Naphthalene	1.0000	0.9547	4.5	100	0.00
101	T	1,2,3-Trichlorobenzene	1.0000	1.0450	-4.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412222.D 8260WT.M Sat May 14 18:05:50 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\051316\8M412223.D Vial: 6
Acq On : 13 May 2016 14:56 Operator: TMB
Sample : WG568561-05 2ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 15:18:34 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	782460	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.57	117	543252	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	286450	25.00	ug/L		0.01
System Monitoring Compounds							
37) Dibromofluoromethane	9.66	111	8161	0.8307	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	3.32%#			
43) 1,2-Dichloroethane-d4	10.30	65	9681	0.8613	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	3.44%#			
58) Toluene-d8	12.68	98	28135	1.0016	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	4.00%#			
80) p-Bromofluorobenzene	16.08	95	12079	1.0302	ug/L		0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	4.12%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.16	85	24870	1.5166	ug/L		98
3) Chloromethane	3.62	50	16106	1.0425	ug/L		93
4) Vinyl Chloride	3.85	62	18562	1.7792	ug/L		94
5) 1,3-Butadiene	3.90	54	13617	1.3360	ug/L		92
6) Bromomethane	4.73	94	8329	1.8804	ug/L		94
7) Chloroethane	4.90	64	9562	1.4006	ug/L		86
8) Trichlorofluoromethane	5.39	101	34970	1.6885	ug/L		97
9) Diethyl ether	5.90	59	107986	17.0420	ug/L		79
10) Isoprene	5.93	67	20936	1.9757	ug/L		73
11) Acrolein	6.14	56	4864	8.6444	ug/L		95
12) 1,1,2-Trichloro-1,2,2-Trif	6.17	101	16832	1.7751	ug/L		99
13) Acetone	6.23	43	1519	0.7908	ug/L	#	48
14) 1,1-Dichloroethene	6.47	61	25394	1.3798	ug/L		89
15) Tert-Butyl Alcohol	6.58	59	14891	33.6725	ug/L		85
16) Dimethyl Sulfide	6.73	62	9489	1.3953	ug/L		79
17) Iodomethane	6.98	142	1211	1.3472	ug/L	#	60
18) Methyl acetate	7.01	43	5064	0.8821	ug/L	#	79
19) Methylene Chloride	7.25	84	16579	1.9010	ug/L		52
20) Carbon Disulfide	7.29	76	57693	2.1683	ug/L		98
21) Acrylonitrile	7.43	53	13848	5.6089	ug/L		93
22) Methyl Tert Butyl Ether	7.47	73	33991	1.7644	ug/L		84
23) trans-1,2-Dichloroethene	7.70	61	22786	1.3688	ug/L		88
24) n-Hexane	7.79	57	18282	1.2105	ug/L		84
25) Diisopropyl ether	8.12	45	475271	11.1128	ug/L	#	92
26) Vinyl Acetate	8.29	43	15998	0.9318	ug/L		93
27) 1,1-Dichloroethane	8.32	63	30419	1.5277	ug/L		97
28) Ethyl-Tert-Butyl ether	8.70	59	505010	16.8250	ug/L		89
29) 2-Butanone	8.90	43	2250	0.7313	ug/L	#	57
30) Propionitrile	8.99	54	9373	12.0479	ug/L		86
31) 2,2-Dichloropropane	9.10	77	32521	1.8538	ug/L		99
32) cis-1,2-Dichloroethene	9.17	96	18238	1.8309	ug/L		91
33) Chloroform	9.37	83	33543	1.8156	ug/L		99
34) 1-Bromopropane	9.52	122	2513	1.6014	ug/L		88
35) Bromochloromethane	9.60	130	9189	1.7632	ug/L		67
36) Tetrahydrofuran	9.63	42	22074	10.8529	ug/L	#	66
38) 1,1,1-Trichloroethane	9.90	97	32268	1.7324	ug/L		96
39) Cyclohexane	9.93	56	23097	1.1362	ug/L	#	65
40) 1,1-Dichloropropene	10.10	75	24988	1.8639	ug/L		99
41) Tert-Amyl-Methyl ether	10.21	73	459535	23.9029	ug/L		87
42) Carbon Tetrachloride	10.24	117	28935	1.6512	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M412223.D 8260WT.M Fri May 13 15:18:36 2016 Page 1

Data File : C:\MSDchem\2\data\051316\8M412223.D Vial: 6
Acq On : 13 May 2016 14:56 Operator: TMB
Sample : WG568561-05 2ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 15:18:34 2016 Quant Results File: 8260WT.RES

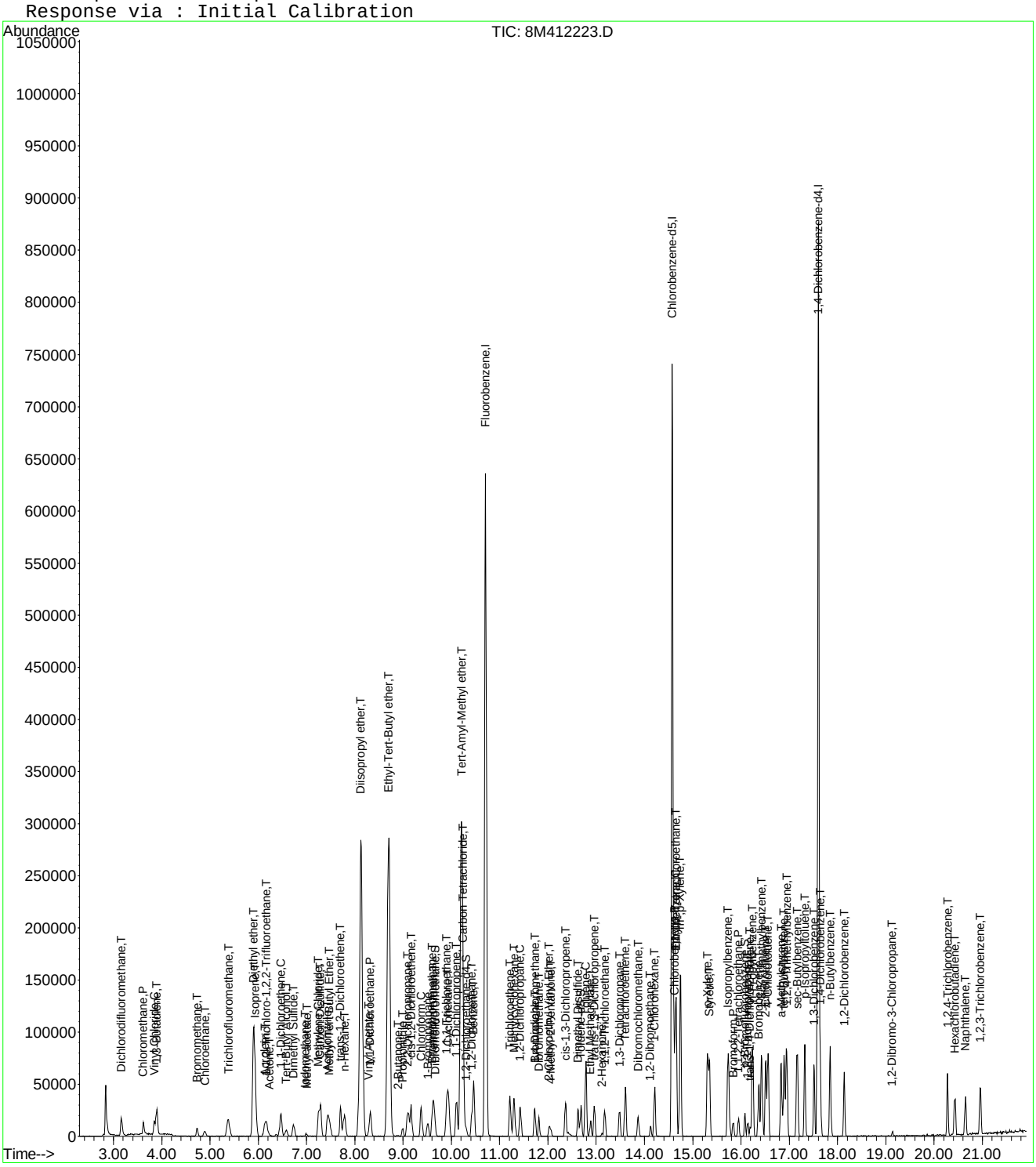
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	1,2-Dichloroethane	10.42	62	22142	1.4270 ug/L #	83
46)	Benzene	10.46	78	67028	1.9629 ug/L	83
47)	Trichloroethene	11.21	130	17287	1.7543 ug/L	96
48)	Methylcyclohexane	11.30	83	26050	1.8907 ug/L	84
49)	1,2-Dichloropropane	11.42	63	14582	1.4670 ug/L	77
50)	Bromodichloromethane	11.73	83	25794	1.8651 ug/L	93
51)	1,4-Dioxane	11.73	88	1282	32.3515 ug/L	74
52)	Dibromomethane	11.81	93	8575	1.8325 ug/L	97
53)	2-Chloroethyl Vinyl Ether	12.02	63	6234	1.4979 ug/L	100
54)	4-Methyl-2-Pentanone	12.06	58	2139	0.9416 ug/L	84
55)	cis-1,3-Dichloropropene	12.37	75	24153	1.7353 ug/L	98
56)	Dimethyl Disulfide	12.62	79	12288	1.6851 ug/L	99
59)	Toluene	12.79	91	72944	2.2423 ug/L	95
60)	Ethyl Methacrylate	12.88	69	12716	2.0832 ug/L	71
62)	trans-1,3-Dichloropropene	12.96	75	22163	1.9527 ug/L	100
63)	1,1,2-Trichloroethane	13.18	97	10537	2.0412 ug/L	99
64)	2-Hexanone	13.13	58	2200	1.1873 ug/L #	65
65)	1,3-Dichloropropane	13.49	76	20212	2.1112 ug/L	72
66)	Tetrachloroethene	13.60	164	14595	1.9811 ug/L	90
67)	Dibromochloromethane	13.87	129	14698	1.8061 ug/L	98
68)	1,2-Dibromoethane	14.12	107	10152	1.8869 ug/L	95
69)	1-Chlorohexane	14.21	91	21960	1.9818 ug/L	89
70)	Chlorobenzene	14.62	112	47376	2.0974 ug/L	81
71)	1,1,1,2-Tetrachloroethane	14.66	131	17526	1.9910 ug/L	97
72)	Ethylbenzene	14.66	106	25628	1.9996 ug/L	92
73)	m-,p-Xylene	14.74	106	60087	4.0693 ug/L	84
74)	o-Xylene	15.31	106	28289	1.9017 ug/L	79
75)	Styrene	15.35	104	47644	2.0086 ug/L	92
76)	Bromoform	15.84	173	9145	1.9585 ug/L	95
77)	Isopropylbenzene	15.73	105	81301	2.1557 ug/L	97
79)	1,1,2,2-Tetrachloroethane	15.95	83	11538	2.0194 ug/L	95
81)	1,2,3-Trichloropropane	16.13	110	3630	1.9770 ug/L	94
82)	trans-1,4-Dichloro-2-Buten	16.19	53	2699	0.9698 ug/L #	36
83)	n-Propylbenzene	16.24	91	97233	2.2026 ug/L	96
84)	Bromobenzene	16.37	156	19174	2.0834 ug/L	92
85)	1,3,5-Trimethylbenzene	16.42	105	67395	2.0631 ug/L	97
86)	2-Chlorotoluene	16.51	91	67110	2.3739 ug/L	94
87)	4-Chlorotoluene	16.56	91	59154	2.0313 ug/L	92
88)	a-Methylstyrene	16.84	118	29415	1.8275 ug/L	86
89)	tert-Butylbenzene	16.89	134	12716	1.9647 ug/L	67
90)	1,2,4-Trimethylbenzene	16.95	105	71669	2.1435 ug/L	94
91)	sec-Butylbenzene	17.17	105	81038	2.0632 ug/L	98
92)	p-Isopropyltoluene	17.32	119	70170	2.0924 ug/L	92
93)	1,3-Dichlorobenzene	17.52	146	37289	2.0413 ug/L	93
94)	1,4-Dichlorobenzene	17.64	146	36528	2.0034 ug/L #	73
95)	n-Butylbenzene	17.85	91	67823	2.1262 ug/L	96
96)	1,2-Dichlorobenzene	18.14	146	32322	2.0190 ug/L	92
97)	1,2-Dibromo-3-Chloropropan	19.13	75	1955	1.5624 ug/L	94
98)	1,2,4-Trichlorobenzene	20.28	180	23558	1.9000 ug/L	98
99)	Hexachlorobutadiene	20.43	225	11066	1.9286 ug/L	99
100)	Naphthalene	20.65	128	36066	1.9130 ug/L	99
101)	1,2,3-Trichlorobenzene	20.96	180	19765	1.8738 ug/L	95

(#) = qualifier out of range (m) = manual integration
8M412223.D 8260WT.M Fri May 13 15:18:37 2016 Page 2

Data File : C:\MSDchem\2\data\051316\8M412223.D Vial: 6
Acq On : 13 May 2016 14:56 Operator: TMB
Sample : WG568561-05 2ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 15:18 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\2\DATA\051316\8M412223.D Vial: 6
Acq On : 13 May 2016 14:56 Operator: TMB
Sample : WG568561-05 2ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	2.0000	1.8958	5.2	100	0.00
3	P	Chloromethane	2.0000	2.1033	-5.2	100	0.00
4	C	Vinyl Chloride	2.0000	2.0431	-2.2	100	0.00
5	T	1,3-Butadiene	2.0000	1.7872	10.6	100	0.02
6	T	Bromomethane	2.0000	2.0126	-0.6	100	0.00
7	T	Chloroethane	2.0000	1.9127	4.4	100	0.00
8	T	Trichlorofluoromethane	2.0000	2.0686	-3.4	100	0.00
9	T	Diethyl ether	25.0000	26.7567	-7.0	100	0.00
10	T	Isoprene	2.0000	2.0394	-2.0	100	0.00
11	T	Acrolein	12.5000	13.4606	-7.7	100	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	2.0000	2.1182	-5.9	100	0.02
13	T	Acetone	-1.0000	1.7255	0.0	100	-0.01
14	C	1,1-Dichloroethene	2.0000	2.0070	-0.4	100	0.00
15	T	Tert-Butyl Alcohol	50.0000	52.7840	-5.6	100	0.00
16	T	Dimethyl Sulfide	2.0000	2.0975	-4.9	100	0.00
17	T	Iodomethane	2.0000	3.0680	-53.4#	100	0.00
18	T	Methyl acetate	-1.0000	2.1281	0.0	100	0.00
19	T	Methylene Chloride	2.0000	2.0590	-3.0	100	0.00
20	T	Carbon Disulfide	2.0000	2.1789	-8.9	100	0.00
21	T	Acrylonitrile	12.5000	12.1237	3.0	100	0.00
22	T	Methyl Tert Butyl Ether	2.0000	1.9505	2.5	100	0.00
23	T	trans-1,2-Dichloroethene	2.0000	1.9603	2.0	100	0.00
24	T	n-Hexane	-1.0000	2.1181	0.0	100	0.00
25	T	Diisopropyl ether	25.0000	26.2305	-4.9	100	0.00
26	T	Vinyl Acetate	2.0000	1.9284	3.6	100	0.00
27	P	1,1-Dichloroethane	2.0000	2.1072	-5.4	100	0.00
28	T	Ethyl-Tert-Butyl ether	25.0000	26.0139	-4.1	100	0.00
29	T	2-Butanone	-1.0000	1.7396	0.0	100	0.02
30	T	Propionitrile	25.0000	24.8668	0.5	100	0.00
31	T	2,2-Dichloropropane	2.0000	2.1378	-6.9	100	0.00
32	T	cis-1,2-Dichloroethene	2.0000	2.0306	-1.5	100	0.00
33	C	Chloroform	2.0000	1.9679	1.6	100	0.00
34		1-Bromopropane	2.0000	1.9533	2.3	100	0.00
35	T	Bromochloromethane	2.0000	1.9951	0.2	100	0.00
36	T	Tetrahydrofuran	25.0000	25.9117	-3.6	100	0.00
37	S	Dibromofluoromethane	1.0000	0.9708	2.9	100	0.00
38	T	1,1,1-Trichloroethane	2.0000	1.9930	0.3	100	0.00
39	T	Cyclohexane	2.0000	2.0605	-3.0	100	0.00
40	T	1,1-Dichloropropene	2.0000	2.0248	-1.2	100	0.00
41	T	Tert-Amyl-Methyl ether	25.0000	26.0627	-4.3	100	0.00
42	T	Carbon Tetrachloride	2.0000	2.0126	-0.6	100	0.00
43	S	1,2-Dichloroethane-d4	1.0000	1.0740	-7.4	100	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	2.0000	2.0183	-0.9	100	0.00
46	T	Benzene	2.0000	2.0854	-4.3	100	0.00
47	T	Trichloroethene	2.0000	2.0166	-0.8	100	0.00
48	T	Methylcyclohexane	-1.0000	2.0003	0.0	100	0.00
49	C	1,2-Dichloropropane	2.0000	2.0380	-1.9	100	0.00
50	T	Bromodichloromethane	2.0000	2.0511	-2.6	100	0.00
51	T	1,4-Dioxane	-1.0000	35.6688	0.0	100	0.02
52	T	Dibromomethane	2.0000	2.0246	-1.2	100	0.00
53	T	2-Chloroethyl Vinyl Ether	2.0000	2.0271	-1.4	100	0.00
54	T	4-Methyl-2-Pentanone	-1.0000	1.7027	0.0	100	0.00

(#) = Out of Range
8M412223.D 8260WT.M Sat May 14 18:08:13 2016 Page 1

Data File : C:\MSDCHEM\2\DATA\051316\8M412223.D Vial: 6
Acq On : 13 May 2016 14:56 Operator: TMB
Sample : WG568561-05 2ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	2.0000	1.8869	5.7	100	0.00
56	T	Dimethyl Disulfide	-1.0000	1.7986	0.0	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	1.0000	0.9896	1.0	100	0.00
59	C	Toluene	2.0000	2.1628	-8.1	100	0.00
60	T	Ethyl Methacrylate	2.0000	1.9633	1.8	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	2.0000	1.9609	2.0	100	0.00
63	T	1,1,2-Trichloroethane	2.0000	1.9800	1.0	100	0.00
64	T	2-Hexanone	-1.0000	1.9672	0.0	100	0.00
65	T	1,3-Dichloropropane	2.0000	2.1332	-6.7	100	0.00
66	T	Tetrachloroethene	2.0000	2.0198	-1.0	100	0.00
67	T	Dibromochloromethane	2.0000	1.8915	5.4	100	0.00
68	T	1,2-Dibromoethane	2.0000	1.9141	4.3	100	0.00
69	T	1-Chlorohexane	2.0000	1.9075	4.6	100	0.00
70	P	Chlorobenzene	2.0000	2.0831	-4.2	100	0.00
71	T	1,1,1,2-Tetrachloroethane	2.0000	1.9892	0.5	100	0.00
72	C	Ethylbenzene	2.0000	2.0596	-3.0	100	0.00
73	T	m-,p-Xylene	4.0000	4.1170	-2.9	100	0.00
74	T	o-Xylene	2.0000	1.9825	0.9	100	0.00
75	T	Styrene	2.0000	2.0358	-1.8	100	0.00
76	P	Bromoform	2.0000	1.9841	0.8	100	0.00
77	T	Isopropylbenzene	2.0000	2.1448	-7.2	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	2.0000	2.0066	-0.3	100	0.00
80	S	p-Bromofluorobenzene	1.0000	1.0184	-1.8	100	0.00
81	T	1,2,3-Trichloropropane	2.0000	2.0501	-2.5	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	2.0000	2.0915	-4.6	100	0.00
83	T	n-Propylbenzene	2.0000	2.1757	-8.8	100	0.00
84	T	Bromobenzene	2.0000	2.0859	-4.3	100	0.00
85	T	1,3,5-Trimethylbenzene	2.0000	2.0703	-3.5	100	0.00
86	T	2-Chlorotoluene	2.0000	2.1509	-7.5	100	0.00
87	T	4-Chlorotoluene	2.0000	2.0989	-4.9	100	0.00
88	T	a-Methylstyrene	-1.0000	1.9045	0.0	100	0.00
89	T	tert-Butylbenzene	2.0000	1.9967	0.2	100	0.00
90	T	1,2,4-Trimethylbenzene	2.0000	2.1411	-7.1	100	0.00
91	T	sec-Butylbenzene	2.0000	2.1161	-5.8	100	0.00
92	T	p-Isopropyltoluene	2.0000	2.1579	-7.9	100	0.00
93	T	1,3-Dichlorobenzene	2.0000	2.1067	-5.3	100	0.00
94	T	1,4-Dichlorobenzene	2.0000	2.0470	-2.4	100	0.00
95	T	n-Butylbenzene	2.0000	2.1098	-5.5	100	0.00
96	T	1,2-Dichlorobenzene	2.0000	2.0532	-2.7	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	2.0000	1.6938	15.3	100	0.00
98	T	1,2,4-Trichlorobenzene	2.0000	2.0021	-0.1	100	0.00
99	T	Hexachlorobutadiene	2.0000	2.0128	-0.6	100	0.00
100	T	Naphthalene	2.0000	2.0630	-3.2	100	0.00
101	T	1,2,3-Trichlorobenzene	2.0000	1.9910	0.4	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412223.D 8260WT.M Sat May 14 18:08:14 2016 Page 2

Data File : C:\MSDchem\2\data\051316\8M412224.D Vial: 7
Acq On : 13 May 2016 15:25 Operator: TMB
Sample : WG568561-06 5ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 15:47:41 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	768397	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	534372	25.00	ug/L		0.01
78) 1,4-Dichlorobenzene-d4	17.60	152	274234	25.00	ug/L		0.01
System Monitoring Compounds							
37) Dibromofluoromethane	9.66	111	19775	2.0496	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery =	8.20%#			
43) 1,2-Dichloroethane-d4	10.30	65	21200	1.9207	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery =	7.68%#			
58) Toluene-d8	12.68	98	65647	2.3758	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery =	9.52%#			
80) p-Bromofluorobenzene	16.08	95	26759	2.3838	ug/L		0.01
Spiked Amount 25.000	Range 86 - 115		Recovery =	9.52%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.16	85	55961	3.4750	ug/L		99
3) Chloromethane	3.62	50	34194	2.2538	ug/L		100
4) Vinyl Chloride	3.84	62	42506	4.1488	ug/L		99
5) 1,3-Butadiene	3.89	54	32006	3.1976	ug/L		93
6) Bromomethane	4.72	94	19582	3.4204	ug/L		94
7) Chloroethane	4.90	64	22000	3.2814	ug/L		84
8) Trichlorofluoromethane	5.37	101	77715	3.8212	ug/L		96
9) Diethyl ether	5.90	59	188516	30.2955	ug/L		79
10) Isoprene	5.94	67	44975	4.3218	ug/L		78
11) Acrolein	6.15	56	7712	13.9568	ug/L		92
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	36867	3.9591	ug/L		99
13) Acetone	6.24	43	3578	1.8967	ug/L		85
14) 1,1-Dichloroethene	6.47	61	59405	3.2870	ug/L		95
15) Tert-Butyl Alcohol	6.58	59	27833	64.0897	ug/L	#	82
16) Dimethyl Sulfide	6.73	62	21102	3.1597	ug/L		77
17) Iodomethane	6.99	142	3667	1.8964	ug/L		95
18) Methyl acetate	7.00	43	11500	2.0398	ug/L	#	86
19) Methylene Chloride	7.24	84	37533	4.3823	ug/L		52
20) Carbon Disulfide	7.29	76	123060	4.7097	ug/L		100
21) Acrylonitrile	7.43	53	25653	10.5804	ug/L		99
22) Methyl Tert Butyl Ether	7.47	73	80005	4.2289	ug/L		86
23) trans-1,2-Dichloroethene	7.70	61	54124	3.3108	ug/L		94
24) n-Hexane	7.78	57	40758	2.7480	ug/L		82
25) Diisopropyl ether	8.12	45	841400	20.0337	ug/L	#	91
26) Vinyl Acetate	8.30	43	37284	2.2113	ug/L	#	90
27) 1,1-Dichloroethane	8.32	63	66711	3.4116	ug/L		97
28) Ethyl-Tert-Butyl ether	8.70	59	907423	30.7852	ug/L		89
29) 2-Butanone	8.89	43	5359	1.7738	ug/L	#	82
30) Propionitrile	8.99	54	17933	23.4726	ug/L		100
31) 2,2-Dichloropropane	9.10	77	73150	4.2462	ug/L		99
32) cis-1,2-Dichloroethene	9.17	96	41036	4.1950	ug/L		89
33) Chloroform	9.37	83	78227	4.3116	ug/L		99
34) 1-Bromopropane	9.52	122	6162	3.9986	ug/L		99
35) Bromochloromethane	9.60	130	20988	4.1009	ug/L	#	62
36) Tetrahydrofuran	9.62	42	38098	19.0742	ug/L	#	62
38) 1,1,1-Trichloroethane	9.91	97	76152	4.1633	ug/L		97
39) Cyclohexane	9.94	56	51439	2.5767	ug/L	#	66
40) 1,1-Dichloropropene	10.11	75	56645	4.3027	ug/L		93
41) Tert-Amyl-Methyl ether	10.21	73	821180	43.4958	ug/L		87
42) Carbon Tetrachloride	10.25	117	67831	3.9416	ug/L		96

(#) = qualifier out of range (m) = manual integration
8M412224.D 8260WT.M Fri May 13 15:47:43 2016 Page 1

Data File : C:\MSDchem\2\data\051316\8M412224.D Vial: 7
Acq On : 13 May 2016 15:25 Operator: TMB
Sample : WG568561-06 5ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 15:47:41 2016 Quant Results File: 8260WT.RES

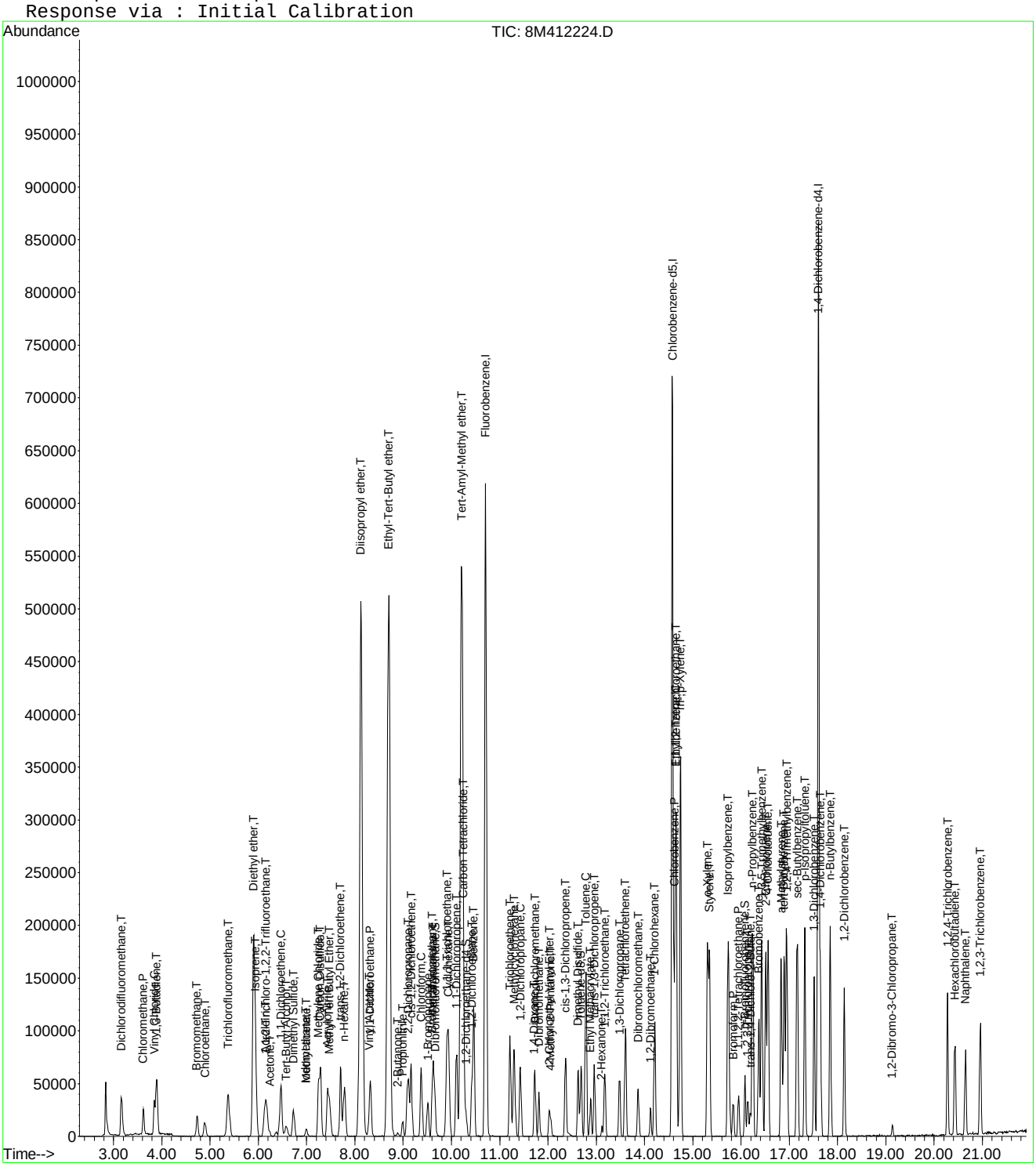
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	51708	3.3934	ug/L		85
46)	Benzene	10.46	78	150204	4.4792	ug/L		86
47)	Trichloroethene	11.21	130	38500	3.9784	ug/L		94
48)	Methylcyclohexane	11.30	83	60897	4.5008	ug/L		81
49)	1,2-Dichloropropane	11.43	63	31773	3.2549	ug/L		77
50)	Bromodichloromethane	11.73	83	59127	4.3535	ug/L		94
51)	1,4-Dioxane	11.71	88	2719	69.8702	ug/L	#	62
52)	Dibromomethane	11.81	93	19711	4.2894	ug/L		96
53)	2-Chloroethyl Vinyl Ether	12.03	63	12946	3.1676	ug/L		98
54)	4-Methyl-2-Pentanone	12.05	58	5129	2.2991	ug/L	#	78
55)	cis-1,3-Dichloropropene	12.36	75	61169	4.4752	ug/L		94
56)	Dimethyl Disulfide	12.62	79	27966	3.9053	ug/L		98
59)	Toluene	12.78	91	161007	5.0316	ug/L		97
60)	Ethyl Methacrylate	12.88	69	28595	4.7624	ug/L		71
62)	trans-1,3-Dichloropropene	12.96	75	49791	4.4599	ug/L		97
63)	1,1,2-Trichloroethane	13.18	97	23678	4.6631	ug/L		99
64)	2-Hexanone	13.11	58	4499	2.4685	ug/L	#	97
65)	1,3-Dichloropropane	13.49	76	44838	4.7614	ug/L		73
66)	Tetrachloroethene	13.60	164	32715	4.5144	ug/L		97
67)	Dibromochloromethane	13.87	129	35009	4.3734	ug/L		98
68)	1,2-Dibromoethane	14.13	107	24247	4.5815	ug/L		99
69)	1-Chlorohexane	14.21	91	53599	4.9176	ug/L		84
70)	Chlorobenzene	14.62	112	107618	4.8437	ug/L		95
71)	1,1,1,2-Tetrachloroethane	14.65	131	38120	4.4025	ug/L		96
72)	Ethylbenzene	14.65	106	56905	4.5138	ug/L		91
73)	m-,p-Xylene	14.75	106	137390	9.4592	ug/L		86
74)	o-Xylene	15.31	106	65650	4.4866	ug/L		85
75)	Styrene	15.35	104	111433	4.7758	ug/L		91
76)	Bromoform	15.84	173	19346	4.2121	ug/L		97
77)	Isopropylbenzene	15.73	105	182523	4.9200	ug/L		96
79)	1,1,2,2-Tetrachloroethane	15.95	83	26655	4.8730	ug/L		99
81)	1,2,3-Trichloropropane	16.13	110	8840	5.0289	ug/L		81
82)	trans-1,4-Dichloro-2-Buten	16.19	53	6584	2.4712	ug/L	#	51
83)	n-Propylbenzene	16.24	91	222196	5.2576	ug/L		96
84)	Bromobenzene	16.37	156	42665	4.8423	ug/L		95
85)	1,3,5-Trimethylbenzene	16.43	105	155714	4.9790	ug/L		93
86)	2-Chlorotoluene	16.52	91	148764	5.4968	ug/L		94
87)	4-Chlorotoluene	16.56	91	135679	4.8666	ug/L		94
88)	a-Methylstyrene	16.84	118	68945	4.4743	ug/L		91
89)	tert-Butylbenzene	16.89	134	29069	4.6914	ug/L		77
90)	1,2,4-Trimethylbenzene	16.95	105	161016	5.0301	ug/L		94
91)	sec-Butylbenzene	17.17	105	191273	5.0866	ug/L		94
92)	p-Isopropyltoluene	17.32	119	159232	4.9597	ug/L		93
93)	1,3-Dichlorobenzene	17.52	146	83896	4.7972	ug/L		95
94)	1,4-Dichlorobenzene	17.64	146	82462	4.7242	ug/L		86
95)	n-Butylbenzene	17.85	91	158787	5.1996	ug/L		96
96)	1,2-Dichlorobenzene	18.14	146	72524	4.7321	ug/L		92
97)	1,2-Dibromo-3-Chloropropan	19.13	75	5629	4.6990	ug/L		76
98)	1,2,4-Trichlorobenzene	20.28	180	53855	4.5369	ug/L		98
99)	Hexachlorobutadiene	20.43	225	24504	4.4608	ug/L		93
100)	Naphthalene	20.65	128	79806	4.4217	ug/L		98
101)	1,2,3-Trichlorobenzene	20.96	180	44150	4.3720	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M412224.D 8260WT.M Fri May 13 15:47:44 2016 Page 2

Data File : C:\MSDchem\2\data\051316\8M412224.D Vial: 7
Acq On : 13 May 2016 15:25 Operator: TMB
Sample : WG568561-06 5ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 15:47 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Thu Apr 28 15:05:04 2016
Response via : Initial Calibration



Data File : C:\MSDCHEM\2\DATA\051316\8M412224.D Vial: 7
Acq On : 13 May 2016 15:25 Operator: TMB
Sample : WG568561-06 5ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Dichlorodifluoromethane	5.0000	4.3438	13.1	100	0.00
3	P	Chloromethane	5.0000	4.5471	9.1	100	0.00
4	C	Vinyl Chloride	5.0000	4.7641	4.7	100	0.00
5	T	1,3-Butadiene	5.0000	4.2777	14.4	100	0.00
6	T	Bromomethane	5.0000	4.1880	16.2	100	-0.01
7	T	Chloroethane	5.0000	4.4813	10.4	100	0.00
8	T	Trichlorofluoromethane	5.0000	4.6812	6.4	100	0.00
9	T	Diethyl ether	50.0000	47.5652	4.9	100	0.00
10	T	Isoprene	5.0000	4.4611	10.8	100	0.00
11	T	Acrolein	25.0000	21.7328	13.1	100	0.02
12	T	1,1,2-Trichloro-1,2,2-Trifl	5.0000	4.7244	5.5	100	0.00
13	T	Acetone	5.0000	4.1387	17.2	100	0.00
14	C	1,1-Dichloroethene	5.0000	4.7810	4.4	100	0.00
15	T	Tert-Butyl Alcohol	100.0000	100.4650	-0.5	100	0.00
16	T	Dimethyl Sulfide	5.0000	4.7499	5.0	100	0.00
17	T	Iodomethane	5.0000	3.7634	24.7	100	0.00
18	T	Methyl acetate	5.0000	4.9211	1.6	100	0.00
19	T	Methylene Chloride	5.0000	4.7467	5.1	100	0.00
20	T	Carbon Disulfide	5.0000	4.7328	5.3	100	0.00
21	T	Acrylonitrile	25.0000	22.8698	8.5	100	0.00
22	T	Methyl Tert Butyl Ether	5.0000	4.6750	6.5	100	0.00
23	T	trans-1,2-Dichloroethene	5.0000	4.7415	5.2	100	0.00
24	T	n-Hexane	5.0000	4.8084	3.8	100	0.00
25	T	Diisopropyl ether	50.0000	47.2872	5.4	100	0.00
26	T	Vinyl Acetate	5.0000	4.5766	8.5	100	0.00
27	P	1,1-Dichloroethane	5.0000	4.7058	5.9	100	0.00
28	T	Ethyl-Tert-Butyl ether	50.0000	47.5984	4.8	100	0.00
29	T	2-Butanone	5.0000	4.2191	15.6	100	0.00
30	T	Propionitrile	50.0000	48.4475	3.1	100	0.00
31	T	2,2-Dichloropropane	5.0000	4.8965	2.1	100	0.00
32	T	cis-1,2-Dichloroethene	5.0000	4.6525	7.0	100	0.00
33	C	Chloroform	5.0000	4.6735	6.5	100	0.00
34		1-Bromopropane	5.0000	4.8774	2.5	100	0.00
35	T	Bromochloromethane	5.0000	4.6403	7.2	100	0.00
36	T	Tetrahydrofuran	50.0000	45.5400	8.9	100	-0.01
37	S	Dibromofluoromethane	2.5000	2.3953	4.2	100	0.00
38	T	1,1,1-Trichloroethane	5.0000	4.7896	4.2	100	0.00
39	T	Cyclohexane	5.0000	4.6730	6.5	100	0.00
40	T	1,1-Dichloropropene	5.0000	4.6741	6.5	100	0.00
41	T	Tert-Amyl-Methyl ether	50.0000	47.6211	4.8	100	0.00
42	T	Carbon Tetrachloride	5.0000	4.8044	3.9	100	0.00
43	S	1,2-Dichloroethane-d4	2.5000	2.3949	4.2	100	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	5.0000	4.7996	4.0	100	0.00
46	T	Benzene	5.0000	4.7588	4.8	100	0.00
47	T	Trichloroethene	5.0000	4.5733	8.5	100	0.00
48	T	Methylcyclohexane	5.0000	4.7616	4.8	100	0.00
49	C	1,2-Dichloropropane	5.0000	4.5219	9.6	100	0.00
50	T	Bromodichloromethane	5.0000	4.7878	4.2	100	0.00
51	T	1,4-Dioxane	100.0000	77.0346	23.0	100	0.00
52	T	Dibromomethane	5.0000	4.7390	5.2	100	0.00
53	T	2-Chloroethyl Vinyl Ether	5.0000	4.2867	14.3	100	0.00
54	T	4-Methyl-2-Pentanone	5.0000	4.1576	16.8	100	0.00

(#) = Out of Range
8M412224.D 8260WT.M Sat May 14 18:08:36 2016 Page 1

Data File : C:\MSDCHEM\2\DATA\051316\8M412224.D Vial: 7
Acq On : 13 May 2016 15:25 Operator: TMB
Sample : WG568561-06 5ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	5.0000	4.8662	2.7	100	0.00
56	T	Dimethyl Disulfide	5.0000	4.1683	16.6	100	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
58	S	Toluene-d8	2.5000	2.3473	6.1	100	0.00
59	C	Toluene	5.0000	4.8533	2.9	100	0.00
60	T	Ethyl Methacrylate	5.0000	4.4883	10.2	100	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	5.0000	4.4786	10.4	100	0.00
63	T	1,1,2-Trichloroethane	5.0000	4.5231	9.5	100	0.00
64	T	2-Hexanone	5.0000	4.0898	18.2	100	0.00
65	T	1,3-Dichloropropane	5.0000	4.8109	3.8	100	0.00
66	T	Tetrachloroethene	5.0000	4.6028	7.9	100	0.00
67	T	Dibromochloromethane	5.0000	4.5802	8.4	100	0.00
68	T	1,2-Dibromoethane	5.0000	4.6475	7.1	100	0.00
69	T	1-Chlorohexane	5.0000	4.7331	5.3	100	0.00
70	P	Chlorobenzene	5.0000	4.8107	3.8	100	0.00
71	T	1,1,1,2-Tetrachloroethane	5.0000	4.3984	12.0	100	0.00
72	C	Ethylbenzene	5.0000	4.6492	7.0	100	0.00
73	T	m-,p-Xylene	10.0000	9.5700	4.3	100	0.00
74	T	o-Xylene	5.0000	4.6773	6.5	100	0.00
75	T	Styrene	5.0000	4.8405	3.2	100	0.00
76	P	Bromoform	5.0000	4.2672	14.7	100	0.00
77	T	Isopropylbenzene	5.0000	4.8951	2.1	100	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
79	P	1,1,2,2-Tetrachloroethane	5.0000	4.8422	3.2	100	0.00
80	S	p-Bromofluorobenzene	2.5000	2.3565	5.7	100	0.00
81	T	1,2,3-Trichloropropane	5.0000	5.2150	-4.3	100	0.00
82	T	trans-1,4-Dichloro-2-Butene	5.0000	4.3781	12.4	100	0.00
83	T	n-Propylbenzene	5.0000	5.1935	-3.9	100	0.00
84	T	Bromobenzene	5.0000	4.8483	3.0	100	0.00
85	T	1,3,5-Trimethylbenzene	5.0000	4.9964	0.1	100	0.00
86	T	2-Chlorotoluene	5.0000	4.9803	0.4	100	0.00
87	T	4-Chlorotoluene	5.0000	5.0286	-0.6	100	0.00
88	T	a-Methylstyrene	5.0000	4.6629	6.7	100	0.00
89	T	tert-Butylbenzene	5.0000	4.7677	4.6	100	0.00
90	T	1,2,4-Trimethylbenzene	5.0000	5.0245	-0.5	100	0.00
91	T	sec-Butylbenzene	5.0000	5.2170	-4.3	100	0.00
92	T	p-Isopropyltoluene	5.0000	5.1150	-2.3	100	0.00
93	T	1,3-Dichlorobenzene	5.0000	4.9511	1.0	100	0.00
94	T	1,4-Dichlorobenzene	5.0000	4.8270	3.5	100	0.00
95	T	n-Butylbenzene	5.0000	5.1595	-3.2	100	0.00
96	T	1,2-Dichlorobenzene	5.0000	4.8122	3.8	100	0.00
97	T	1,2-Dibromo-3-Chloropropane	5.0000	5.0942	-1.9	100	0.00
98	T	1,2,4-Trichlorobenzene	5.0000	4.7808	4.4	100	0.00
99	T	Hexachlorobutadiene	5.0000	4.6555	6.9	100	0.00
100	T	Naphthalene	5.0000	4.7684	4.6	100	0.00
101	T	1,2,3-Trichlorobenzene	5.0000	4.6455	7.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412224.D 8260WT.M Sat May 14 18:08:37 2016 Page 2

Data File : C:\MSDchem\2\data\051316\8M412225.D Vial: 8
Acq On : 13 May 2016 15:54 Operator: TMB
Sample : WG568561-07 20ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 16:16:32 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 15:56:03 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	770027	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.58	117	531490	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	283594	25.00	ug/L		0.00
System Monitoring Compounds							
37) Dibromofluoromethane	9.66	111	86295	10.9569	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 43.84%#				
43) 1,2-Dichloroethane-d4	10.30	65	96239	11.3450	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 45.36%#				
58) Toluene-d8	12.68	98	294491	10.9223	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 43.68%#				
80) p-Bromofluorobenzene	16.08	95	121459	10.5490	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 42.20%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.16	85	288235	23.7135	ug/L		99
3) Chloromethane	3.62	50	155712	20.3784	ug/L		98
4) Vinyl Chloride	3.84	62	184250	20.9368	ug/L		95
5) 1,3-Butadiene	3.89	54	149348	22.7750	ug/L		96
6) Bromomethane	4.73	94	100098	25.0143	ug/L		99
7) Chloroethane	4.89	64	100876	20.9404	ug/L		91
8) Trichlorofluoromethane	5.37	101	351299	21.2512	ug/L		98
9) Diethyl ether	5.90	59	324317	80.8265	ug/L		78
10) Isoprene	5.94	67	205842	20.3622	ug/L		77
11) Acrolein	6.14	56	12049	34.8201	ug/L		90
12) 1,1,2-Trichloro-1,2,2-Trif	6.16	101	159996	20.3859	ug/L		97
13) Acetone	6.25	43	18459	25.7405	ug/L		98
14) 1,1-Dichloroethene	6.47	61	256241	20.5065	ug/L		92
15) Tert-Butyl Alcohol	6.57	59	43922	153.5712	ug/L		93
16) Dimethyl Sulfide	6.73	62	89456	20.6087	ug/L		83
17) Iodomethane	6.99	142	40622	61.0474	ug/L		93
18) Methyl acetate	7.00	43	46598	20.2171	ug/L	#	85
19) Methylene Chloride	7.25	84	161897	20.1338	ug/L		52
20) Carbon Disulfide	7.30	76	538090	20.0802	ug/L		98
21) Acrylonitrile	7.43	53	46305	46.9889	ug/L		100
22) Methyl Tert Butyl Ether	7.47	73	361116	22.0137	ug/L		86
23) trans-1,2-Dichloroethene	7.70	61	234754	20.3175	ug/L		90
24) n-Hexane	7.78	57	172498	21.1165	ug/L		84
25) Diisopropyl ether	8.12	45	1447822	80.3755	ug/L	#	91
26) Vinyl Acetate	8.30	43	166501	21.7017	ug/L	#	88
27) 1,1-Dichloroethane	8.33	63	300321	21.3849	ug/L		97
28) Ethyl-Tert-Butyl ether	8.70	59	1579265	83.0733	ug/L		89
29) 2-Butanone	8.88	43	25681	23.9099	ug/L		87
30) Propionitrile	8.98	54	30953	89.5673	ug/L		94
31) 2,2-Dichloropropane	9.10	77	309575	20.8527	ug/L		100
32) cis-1,2-Dichloroethene	9.17	96	181973	20.4488	ug/L		89
33) Chloroform	9.37	83	348925	20.5535	ug/L		96
34) 1-Bromopropane	9.52	122	26723	22.7206	ug/L		96
35) Bromochloromethane	9.61	130	94952	21.3181	ug/L		65
36) Tetrahydrofuran	9.63	42	63066	70.5772	ug/L	#	57
38) 1,1,1-Trichloroethane	9.91	97	335486	21.3640	ug/L		99
39) Cyclohexane	9.94	56	221040	19.9984	ug/L	#	64
40) 1,1-Dichloropropene	10.11	75	248373	20.4717	ug/L		96
41) Tert-Amyl-Methyl ether	10.21	73	1418183	81.7883	ug/L		88
42) Carbon Tetrachloride	10.25	117	296471	21.3449	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M412225.D 8260WT.M Fri May 13 16:16:35 2016 Page 1

Data File : C:\MSDchem\2\data\051316\8M412225.D Vial: 8
Acq On : 13 May 2016 15:54 Operator: TMB
Sample : WG568561-07 20ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 16:16:32 2016 Quant Results File: 8260WT.RES

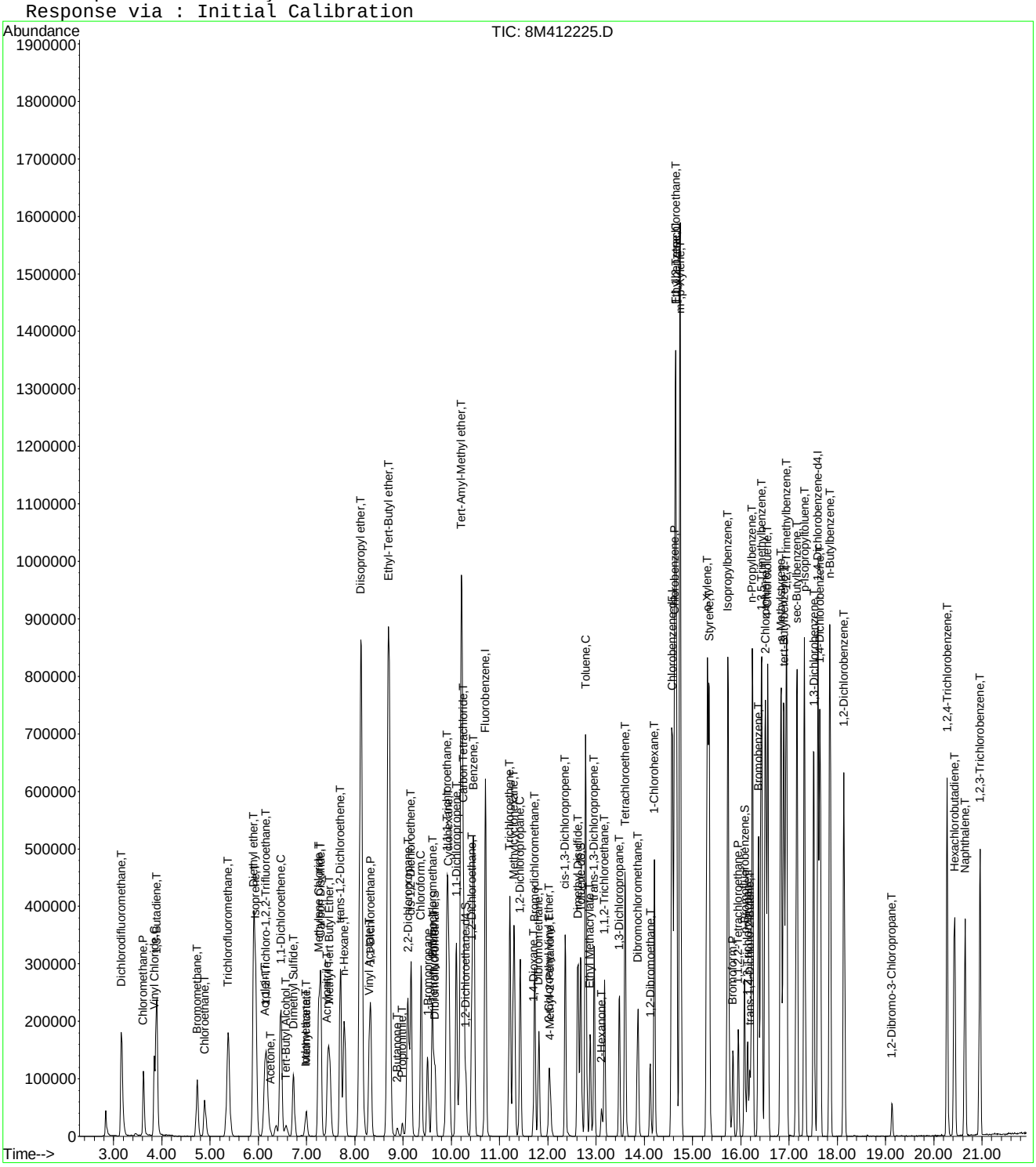
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 15:56:03 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	228665	21.6403	ug/L		85
46)	Benzene	10.46	78	668449	20.3769	ug/L		86
47)	Trichloroethene	11.21	130	174107	20.7980	ug/L		96
48)	Methylcyclohexane	11.29	83	262275	21.4887	ug/L		82
49)	1,2-Dichloropropane	11.43	63	146868	21.1883	ug/L	#	72
50)	Bromodichloromethane	11.73	83	262192	21.9986	ug/L		98
51)	1,4-Dioxane	11.71	88	5351	196.3837	ug/L		76
52)	Dibromomethane	11.81	93	86951	21.0734	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.03	63	63586	22.4600	ug/L		91
54)	4-Methyl-2-Pentanone	12.05	58	25754	25.0531	ug/L	#	73
55)	cis-1,3-Dichloropropene	12.36	75	265439	21.9841	ug/L		99
56)	Dimethyl Disulfide	12.63	79	134192	23.9412	ug/L		100
59)	Toluene	12.78	91	700473	20.1722	ug/L		99
60)	Ethyl Methacrylate	12.88	69	133361	23.2046	ug/L		71
62)	trans-1,3-Dichloropropene	12.96	75	238585	23.2548	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	107901	21.0216	ug/L		99
64)	2-Hexanone	13.11	58	22561	25.2093	ug/L	#	85
65)	1,3-Dichloropropane	13.49	76	198804	22.2491	ug/L		74
66)	Tetrachloroethene	13.60	164	141791	20.0055	ug/L		94
67)	Dibromochloromethane	13.87	129	158465	22.0695	ug/L		99
68)	1,2-Dibromoethane	14.13	107	110085	22.3366	ug/L		100
69)	1-Chlorohexane	14.21	91	229753	20.3591	ug/L		83
70)	Chlorobenzene	14.62	112	467492	20.4613	ug/L		97
71)	1,1,1,2-Tetrachloroethane	14.65	131	183079	22.2095	ug/L		96
72)	Ethylbenzene	14.65	106	249016	20.2289	ug/L		90
73)	m-,p-Xylene	14.75	106	606381	41.1308	ug/L		88
74)	o-Xylene	15.30	106	294106	21.2106	ug/L		90
75)	Styrene	15.35	104	492781	21.8207	ug/L		89
76)	Bromoform	15.83	173	95911	23.8070	ug/L		99
77)	Isopropylbenzene	15.73	105	806678	20.7280	ug/L		97
79)	1,1,2,2-Tetrachloroethane	15.95	83	123253	22.7779	ug/L		95
81)	1,2,3-Trichloropropane	16.14	110	36712	22.1354	ug/L		94
82)	trans-1,4-Dichloro-2-Buten	16.18	53	33702	27.6513	ug/L	#	56
83)	n-Propylbenzene	16.24	91	962196	20.3511	ug/L		97
84)	Bromobenzene	16.37	156	190566	21.2033	ug/L		94
85)	1,3,5-Trimethylbenzene	16.43	105	692633	20.9615	ug/L		94
86)	2-Chlorotoluene	16.51	91	649077	19.9155	ug/L		96
87)	4-Chlorotoluene	16.56	91	595446	20.3225	ug/L		95
88)	a-Methylstyrene	16.83	118	318960	22.3680	ug/L		92
89)	tert-Butylbenzene	16.90	134	129440	20.4705	ug/L		83
90)	1,2,4-Trimethylbenzene	16.95	105	707749	20.4783	ug/L		94
91)	sec-Butylbenzene	17.17	105	818359	20.1802	ug/L		97
92)	p-Isopropyltoluene	17.32	119	677859	19.7492	ug/L		96
93)	1,3-Dichlorobenzene	17.52	146	364065	20.5126	ug/L		92
94)	1,4-Dichlorobenzene	17.64	146	363066	19.9874	ug/L		92
95)	n-Butylbenzene	17.85	91	681055	20.0187	ug/L		97
96)	1,2-Dichlorobenzene	18.14	146	318612	19.9358	ug/L		91
97)	1,2-Dibromo-3-Chloropropan	19.13	75	23070	21.6419	ug/L		93
98)	1,2,4-Trichlorobenzene	20.28	180	242455	20.8863	ug/L		98
99)	Hexachlorobutadiene	20.43	225	110384	20.2523	ug/L		96
100)	Naphthalene	20.65	128	369849	21.4526	ug/L		99
101)	1,2,3-Trichlorobenzene	20.96	180	198876	19.8356	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M412225.D 8260WT.M Fri May 13 16:16:35 2016 Page 2

Data File : C:\MSDchem\2\data\051316\8M412225.D Vial: 8
Acq On : 13 May 2016 15:54 Operator: TMB
Sample : WG568561-07 20ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 16:16 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 15:56:03 2016
Response via : Initial Calibration



Data File : C:\MSDchem\2\data\051316\8M412226.D Vial: 9
Acq On : 13 May 2016 16:23 Operator: TMB
Sample : WG568561-08 50ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 16:45:30 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 15:56:03 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	778260	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	539116	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	288225	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	211053	26.5139 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.04%		
43) 1,2-Dichloroethane-d4	10.31	65	229348	26.7504 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 107.00%		
58) Toluene-d8	12.68	98	718491	26.2709 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.08%		
80) p-Bromofluorobenzene	16.07	95	292755	25.0180 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.08%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.17	85	682745	55.5761 ug/L	100
3) Chloromethane	3.62	50	372858	48.2806 ug/L	98
4) Vinyl Chloride	3.85	62	453905	51.0328 ug/L	96
5) 1,3-Butadiene	3.88	54	390501	58.9199 ug/L	99
6) Bromomethane	4.74	94	260493	64.4080 ug/L	97
7) Chloroethane	4.89	64	244336	50.1840 ug/L	91
8) Trichlorofluoromethane	5.38	101	837676	50.1376 ug/L	99
9) Diethyl ether	5.90	59	389327	96.0019 ug/L	79
10) Isoprene	5.94	67	498060	48.7477 ug/L	76
11) Acrolein	6.13	56	17644	50.4496 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.15	101	387643	48.8691 ug/L	97
13) Acetone	6.25	43	45901	63.3305 ug/L	97
14) 1,1-Dichloroethene	6.46	61	619744	49.0724 ug/L	94
15) Tert-Butyl Alcohol	6.58	59	53656	185.6211 ug/L	91
16) Dimethyl Sulfide	6.73	62	221107	50.3993 ug/L	82
17) Iodomethane	6.98	142	157872	234.7428 ug/L	94
18) Methyl acetate	7.00	43	114759	49.2629 ug/L #	81
19) Methylene Chloride	7.25	84	389653	47.9453 ug/L	52
20) Carbon Disulfide	7.29	76	1269941	46.8897 ug/L	99
21) Acrylonitrile	7.43	53	59882	60.1236 ug/L	97
22) Methyl Tert Butyl Ether	7.46	73	901668	54.3843 ug/L	86
23) trans-1,2-Dichloroethene	7.70	61	571507	48.9396 ug/L	93
24) n-Hexane	7.79	57	419656	50.8290 ug/L	83
25) Diisopropyl ether	8.13	45	1781012	97.8265 ug/L #	90
26) Vinyl Acetate	8.29	43	428708	55.2866 ug/L #	89
27) 1,1-Dichloroethane	8.32	63	722574	50.9078 ug/L	96
28) Ethyl-Tert-Butyl ether	8.71	59	1955100	101.7552 ug/L	89
29) 2-Butanone	8.88	43	66579	61.3316 ug/L #	82
30) Propionitrile	8.98	54	38235	109.4684 ug/L	95
31) 2,2-Dichloropropane	9.10	77	768496	51.2175 ug/L	99
32) cis-1,2-Dichloroethene	9.17	96	439590	48.8754 ug/L	91
33) Chloroform	9.38	83	844564	49.2230 ug/L	97
34) 1-Bromopropane	9.51	122	63442	53.3693 ug/L	99
35) Bromochloromethane	9.60	130	230119	51.1185 ug/L	66
36) Tetrahydrofuran	9.64	42	79437	87.9575 ug/L #	62
38) 1,1,1-Trichloroethane	9.90	97	817606	51.5150 ug/L	99
39) Cyclohexane	9.93	56	535882	47.9707 ug/L #	65
40) 1,1-Dichloropropene	10.10	75	615439	50.1899 ug/L	96
41) Tert-Amyl-Methyl ether	10.21	73	1769381	100.9628 ug/L	88
42) Carbon Tetrachloride	10.24	117	724058	51.5782 ug/L	99

(#) = qualifier out of range (m) = manual integration
8M412226.D 8260WT.M Fri May 13 16:45:32 2016 Page 1

Data File : C:\MSDchem\2\data\051316\8M412226.D Vial: 9
Acq On : 13 May 2016 16:23 Operator: TMB
Sample : WG568561-08 50ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 16:45:30 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 15:56:03 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

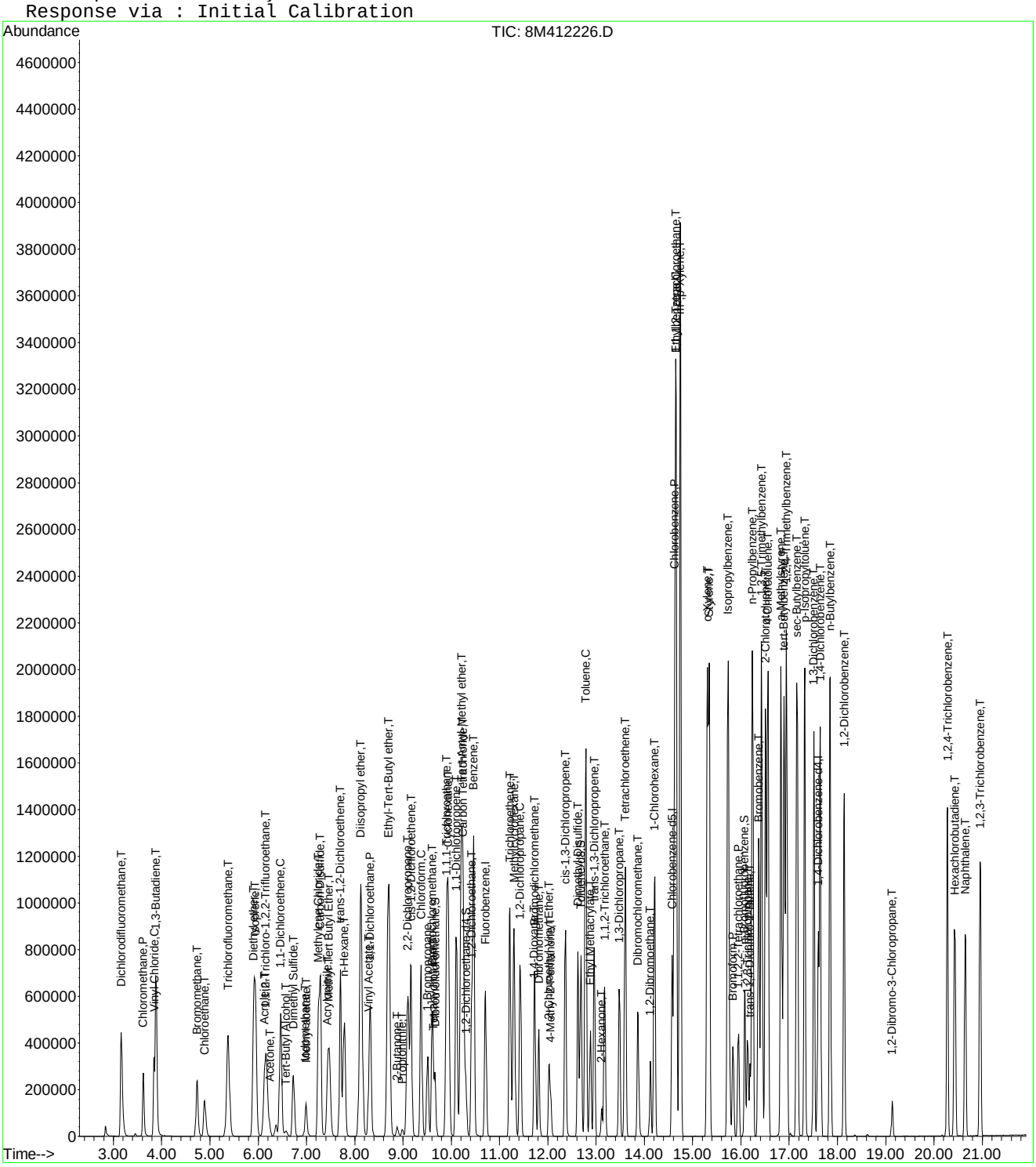
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.42	62	561107	52.5401	ug/L		85
46)	Benzene	10.46	78	1607407	48.4816	ug/L		86
47)	Trichloroethene	11.22	130	424998	50.2312	ug/L		96
48)	Methylcyclohexane	11.30	83	635339	51.5040	ug/L		83
49)	1,2-Dichloropropane	11.42	63	351908	50.2320	ug/L	#	71
50)	Bromodichloromethane	11.72	83	654943	54.3701	ug/L		97
51)	1,4-Dioxane	11.71	88	7573	274.9918	ug/L		73
52)	Dibromomethane	11.82	93	209167	50.1574	ug/L		97
53)	2-Chloroethyl Vinyl Ether	12.02	63	162319	56.7281	ug/L		93
54)	4-Methyl-2-Pentanone	12.05	58	64928	62.4928	ug/L		80
55)	cis-1,3-Dichloropropene	12.36	75	666861	54.6463	ug/L		98
56)	Dimethyl Disulfide	12.62	79	343446	60.6260	ug/L		96
59)	Toluene	12.79	91	1676069	47.5846	ug/L		100
60)	Ethyl Methacrylate	12.88	69	338996	58.1503	ug/L		69
62)	trans-1,3-Dichloropropene	12.96	75	594749	57.1499	ug/L		100
63)	1,1,2-Trichloroethane	13.18	97	268432	51.5570	ug/L		98
64)	2-Hexanone	13.12	58	56859	62.6347	ug/L	#	83
65)	1,3-Dichloropropane	13.48	76	489226	53.9770	ug/L		75
66)	Tetrachloroethene	13.60	164	350332	48.7296	ug/L		95
67)	Dibromochloromethane	13.86	129	401149	55.0780	ug/L		100
68)	1,2-Dibromoethane	14.12	107	273580	54.7252	ug/L		99
69)	1-Chlorohexane	14.21	91	560883	48.9984	ug/L		82
70)	Chlorobenzene	14.63	112	1117812	48.2326	ug/L		96
71)	1,1,1,2-Tetrachloroethane	14.66	131	446892	53.4462	ug/L		99
72)	Ethylbenzene	14.66	106	603074	48.2980	ug/L		91
73)	m-,p-Xylene	14.74	106	1443780	96.5463	ug/L		90
74)	o-Xylene	15.31	106	709244	50.4265	ug/L		90
75)	Styrene	15.34	104	1212099	52.9133	ug/L		91
76)	Bromoform	15.84	173	238354	58.3272	ug/L		100
77)	Isopropylbenzene	15.73	105	1919993	48.6372	ug/L		97
79)	1,1,2,2-Tetrachloroethane	15.95	83	294266	53.5083	ug/L		97
81)	1,2,3-Trichloropropane	16.14	110	89279	52.9656	ug/L		93
82)	trans-1,4-Dichloro-2-Buten	16.19	53	86829	70.0956	ug/L	#	53
83)	n-Propylbenzene	16.24	91	2278994	47.4277	ug/L		98
84)	Bromobenzene	16.37	156	459959	50.3549	ug/L		93
85)	1,3,5-Trimethylbenzene	16.43	105	1661486	49.4745	ug/L		95
86)	2-Chlorotoluene	16.51	91	1611031	48.6367	ug/L		97
87)	4-Chlorotoluene	16.56	91	1341051	45.0344	ug/L		95
88)	a-Methylstyrene	16.83	118	772611	53.3111	ug/L		90
89)	tert-Butylbenzene	16.89	134	307503	47.8493	ug/L		81
90)	1,2,4-Trimethylbenzene	16.94	105	1679809	47.8234	ug/L		95
91)	sec-Butylbenzene	17.16	105	1925411	46.7166	ug/L		97
92)	p-Isopropyltoluene	17.32	119	1621383	46.4795	ug/L		95
93)	1,3-Dichlorobenzene	17.51	146	882656	48.9327	ug/L		93
94)	1,4-Dichlorobenzene	17.64	146	871210	47.1909	ug/L		92
95)	n-Butylbenzene	17.85	91	1608832	46.5296	ug/L		98
96)	1,2-Dichlorobenzene	18.14	146	768548	47.3159	ug/L		91
97)	1,2-Dibromo-3-Chloropropan	19.13	75	59586	54.9992	ug/L		86
98)	1,2,4-Trichlorobenzene	20.28	180	583880	49.4902	ug/L		100
99)	Hexachlorobutadiene	20.44	225	264699	47.7844	ug/L		98
100)	Naphthalene	20.65	128	894629	51.0579	ug/L		99
101)	1,2,3-Trichlorobenzene	20.96	180	475246	46.6387	ug/L		99

(#) = qualifier out of range (m) = manual integration
8M412226.D 8260WT.M Fri May 13 16:45:33 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\051316\8M412226.D Vial: 9
Acq On : 13 May 2016 16:23 Operator: TMB
Sample : WG568561-08 50ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 16:45 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 15:56:03 2016
Response via : Initial Calibration



8M412226.D 8260WT.M Fri May 13 16:45:33 2016 Page 3

Data File : C:\MSDchem\2\data\051316\8M412227.D Vial: 10
Acq On : 13 May 2016 16:52 Operator: TMB
Sample : WG568561-09 100ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 17:14:31 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 17:12:43 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	809533	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	559075	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	296193	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.66	111	460283	53.9056	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 215.64%#			
43) 1,2-Dichloroethane-d4	10.30	65	488116	52.5821	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 210.32%#			
58) Toluene-d8	12.68	98	1540572	52.8075	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 211.24%#			
80) p-Bromofluorobenzene	16.08	95	623735	51.1573	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 204.64%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.16	85	1463283	109.1068	ug/L	100
3) Chloromethane	3.62	50	778702	97.2380	ug/L	98
4) Vinyl Chloride	3.84	62	968312	103.4979	ug/L	95
5) 1,3-Butadiene	3.88	54	896569	120.4972	ug/L	95
6) Bromomethane	4.73	94	605228	129.8677	ug/L	99
7) Chloroethane	4.89	64	528153	103.4126	ug/L	90
8) Trichlorofluoromethane	5.37	101	1782726	101.4754	ug/L	99
9) Diethyl ether	5.90	59	828091	197.4770	ug/L	79
10) Isoprene	5.94	67	1080684	101.8037	ug/L	78
11) Acrolein	6.14	56	38655	109.5572	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.15	101	833546	101.0906	ug/L	97
13) Acetone	6.24	43	97515	109.1944	ug/L	100
14) 1,1-Dichloroethene	6.46	61	1323999	100.6729	ug/L	93
15) Tert-Butyl Alcohol	6.57	59	114220	387.5328	ug/L	91
16) Dimethyl Sulfide	6.73	62	489571	106.5996	ug/L	82
17) Iodomethane	6.99	142	416890	244.5557	ug/L	97
18) Methyl acetate	7.00	43	252444	104.3161	ug/L #	81
19) Methylene Chloride	7.24	84	827241	98.5346	ug/L	53
20) Carbon Disulfide	7.29	76	2766110	99.3432	ug/L	100
21) Acrylonitrile	7.43	53	126153	113.2272	ug/L	98
22) Methyl Tert Butyl Ether	7.46	73	1894494	105.8643	ug/L	87
23) trans-1,2-Dichloroethene	7.70	61	1203701	99.1822	ug/L	93
24) n-Hexane	7.78	57	926226	105.3097	ug/L	84
25) Diisopropyl ether	8.12	45	3699807	196.0386	ug/L #	90
26) Vinyl Acetate	8.29	43	860820	101.8643	ug/L #	88
27) 1,1-Dichloroethane	8.32	63	1521237	101.5567	ug/L	96
28) Ethyl-Tert-Butyl ether	8.70	59	4005676	198.2271	ug/L	89
29) 2-Butanone	8.88	43	145126	112.6698	ug/L #	81
30) Propionitrile	8.98	54	83038	219.1648	ug/L	97
31) 2,2-Dichloropropane	9.11	77	1610615	102.0557	ug/L	98
32) cis-1,2-Dichloroethene	9.17	96	935490	99.9944	ug/L	89
33) Chloroform	9.37	83	1766988	98.8341	ug/L	98
34) 1-Bromopropane	9.51	122	139657	108.5299	ug/L	100
35) Bromochloromethane	9.61	130	488678	102.8480	ug/L	66
36) Tetrahydrofuran	9.63	42	167812	187.5699	ug/L #	61
38) 1,1,1-Trichloroethane	9.91	97	1724504	102.7713	ug/L	100
39) Cyclohexane	9.94	56	1185537	102.8628	ug/L #	66
40) 1,1-Dichloropropene	10.11	75	1293224	100.8377	ug/L	96
41) Tert-Amyl-Methyl ether	10.21	73	3634806	198.1264	ug/L	88
42) Carbon Tetrachloride	10.25	117	1534696	103.3979	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M412227.D 8260WT.M Fri May 13 17:14:33 2016 Page 1

Data File : C:\MSDchem\2\data\051316\8M412227.D Vial: 10
Acq On : 13 May 2016 16:52 Operator: TMB
Sample : WG568561-09 100ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 17:14:31 2016 Quant Results File: 8260WT.RES

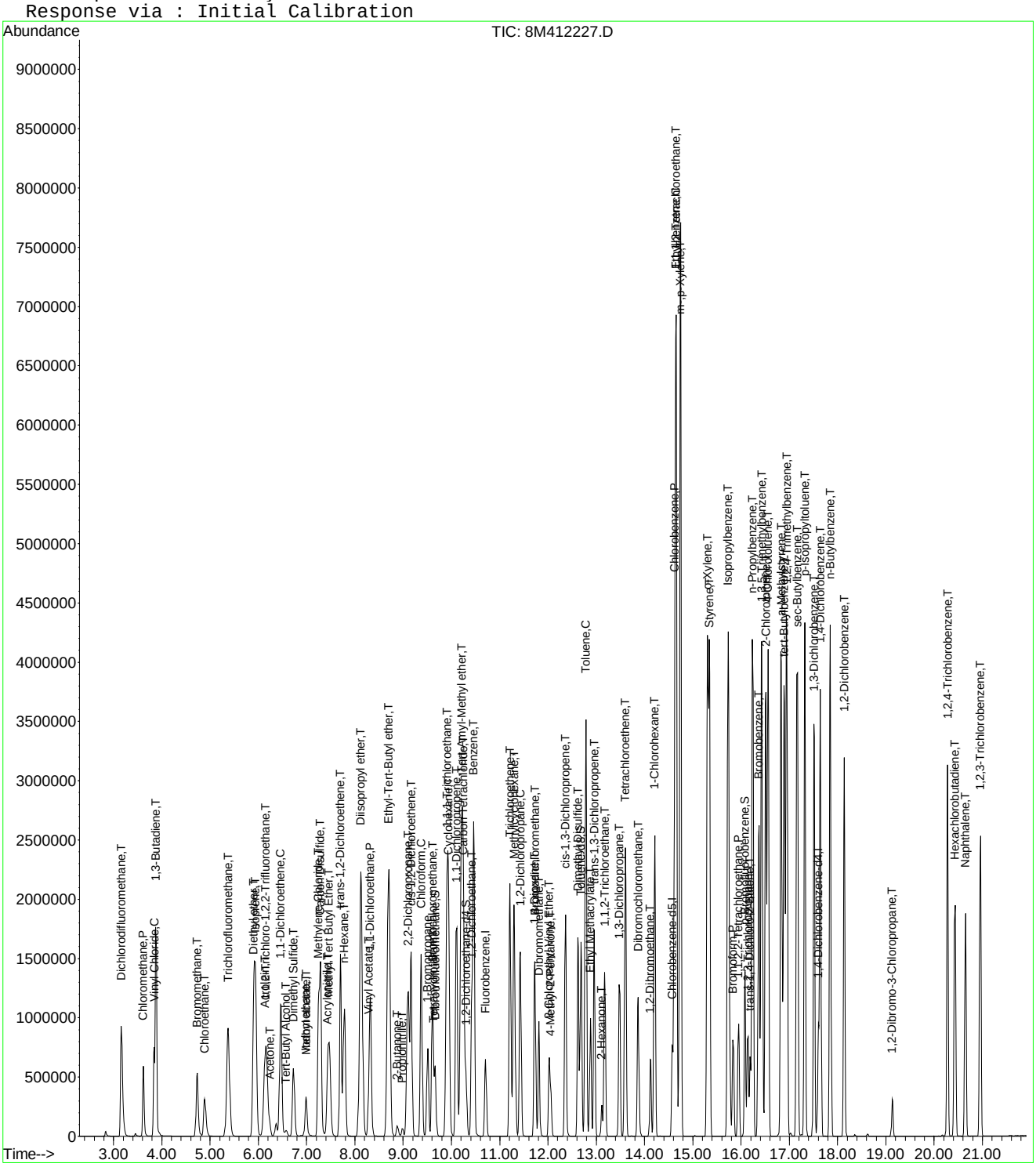
Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 17:12:43 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.42	62	1177876	103.7352	ug/L		85
46)	Benzene	10.46	78	3298928	95.8405	ug/L		87
47)	Trichloroethene	11.21	130	903490	101.9036	ug/L		97
48)	Methylcyclohexane	11.30	83	1389528	104.6454	ug/L		83
49)	1,2-Dichloropropane	11.43	63	755128	102.5297	ug/L		73
50)	Bromodichloromethane	11.73	83	1351612	104.6036	ug/L		99
51)	1,4-Dioxane	11.72	88	16303	473.9624	ug/L		68
52)	Dibromomethane	11.81	93	445130	101.6543	ug/L		99
53)	2-Chloroethyl Vinyl Ether	12.02	63	333977	105.4228	ug/L		92
54)	4-Methyl-2-Pentanone	12.05	58	138980	110.1494	ug/L	#	77
55)	cis-1,3-Dichloropropene	12.36	75	1387475	105.9136	ug/L		100
56)	Dimethyl Disulfide	12.62	79	745504	111.3169	ug/L		97
59)	Toluene	12.78	91	3455614	95.2346	ug/L		99
60)	Ethyl Methacrylate	12.88	69	731009	113.5760	ug/L		70
62)	trans-1,3-Dichloropropene	12.96	75	1236182	107.9445	ug/L		99
63)	1,1,2-Trichloroethane	13.18	97	564076	103.0604	ug/L		99
64)	2-Hexanone	13.12	58	126268	114.5366	ug/L	#	79
65)	1,3-Dichloropropane	13.48	76	1021082	105.2672	ug/L		74
66)	Tetrachloroethene	13.60	164	752835	101.4023	ug/L		95
67)	Dibromochloromethane	13.87	129	856499	109.6525	ug/L		100
68)	1,2-Dibromoethane	14.12	107	577701	107.6426	ug/L		98
69)	1-Chlorohexane	14.21	91	1222720	103.0385	ug/L		82
70)	Chlorobenzene	14.62	112	2332247	97.2408	ug/L		96
71)	1,1,1,2-Tetrachloroethane	14.66	131	947925	106.1463	ug/L		99
72)	Ethylbenzene	14.66	106	1275519	98.8771	ug/L		97
73)	m-,p-Xylene	14.75	106	3009424	194.2602	ug/L		98
74)	o-Xylene	15.31	106	1490638	100.8068	ug/L		93
75)	Styrene	15.35	104	2503721	102.8373	ug/L		88
76)	Bromoform	15.83	173	517827	114.0520	ug/L		100
77)	Isopropylbenzene	15.73	105	3913141	95.4433	ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.95	83	624965	106.8610	ug/L		97
81)	1,2,3-Trichloropropane	16.14	110	192087	107.3268	ug/L		97
82)	trans-1,4-Dichloro-2-Buten	16.18	53	189214	128.4818	ug/L	#	59
83)	n-Propylbenzene	16.24	91	4599057	93.6644	ug/L		100
84)	Bromobenzene	16.37	156	968011	102.1426	ug/L		95
85)	1,3,5-Trimethylbenzene	16.43	105	3401719	97.9556	ug/L		97
86)	2-Chlorotoluene	16.52	91	3177047	93.8267	ug/L		98
87)	4-Chlorotoluene	16.56	91	2899171	96.0712	ug/L		96
88)	a-Methylstyrene	16.84	118	1639166	103.6811	ug/L		90
89)	tert-Butylbenzene	16.90	134	654025	99.4199	ug/L		85
90)	1,2,4-Trimethylbenzene	16.95	105	3479295	96.7054	ug/L		97
91)	sec-Butylbenzene	17.17	105	3947832	94.2785	ug/L		98
92)	p-Isopropyltoluene	17.32	119	3328450	94.4148	ug/L		97
93)	1,3-Dichlorobenzene	17.52	146	1834740	98.9074	ug/L		92
94)	1,4-Dichlorobenzene	17.64	146	1818309	96.6271	ug/L		92
95)	n-Butylbenzene	17.85	91	3308330	94.4002	ug/L		98
96)	1,2-Dichlorobenzene	18.14	146	1606254	97.0179	ug/L		91
97)	1,2-Dibromo-3-Chloropropan	19.13	75	125368	107.7020	ug/L		87
98)	1,2,4-Trichlorobenzene	20.28	180	1227926	100.7076	ug/L		99
99)	Hexachlorobutadiene	20.43	225	569213	100.5231	ug/L		97
100)	Naphthalene	20.65	128	1852486	101.2968	ug/L		99
101)	1,2,3-Trichlorobenzene	20.96	180	1021163	98.5794	ug/L		100

(#) = qualifier out of range (m) = manual integration
8M412227.D 8260WT.M Fri May 13 17:14:34 2016 Page 2

Data File : C:\MSDchem\2\data\051316\8M412227.D Vial: 10
Acq On : 13 May 2016 16:52 Operator: TMB
Sample : WG568561-09 100ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 17:14 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 17:12:43 2016
Response via : Initial Calibration



Data File : C:\MSDchem\2\data\051316\8M412228.D Vial: 11
Acq On : 13 May 2016 17:21 Operator: TMB
Sample : WG568561-10 200ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 17:43:32 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 17:17:39 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	828540	25.00	ug/L		0.00
57) Chlorobenzene-d5	14.57	117	578848	25.00	ug/L		0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	301401	25.00	ug/L		0.00
System Monitoring Compounds							
37) Dibromofluoromethane	9.66	111	898145	101.4517	ug/L		0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 405.80%#				
43) 1,2-Dichloroethane-d4	10.30	65	939848	98.0779	ug/L		0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 392.32%#				
58) Toluene-d8	12.68	98	2984162	97.8805	ug/L		0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 391.52%#				
80) p-Bromofluorobenzene	16.08	95	1242720	99.7023	ug/L		0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 398.80%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	3.16	85	2830517	203.5621	ug/L		98
3) Chloromethane	3.62	50	1586058	194.4056	ug/L		97
4) Vinyl Chloride	3.83	62	1935009	201.0738	ug/L		94
5) 1,3-Butadiene	3.88	54	1684964	212.5477	ug/L		94
6) Bromomethane	4.72	94	1358068	271.2231	ug/L		99
7) Chloroethane	4.89	64	1084803	206.5255	ug/L		90
8) Trichlorofluoromethane	5.37	101	3516760	195.1756	ug/L		99
10) Isoprene	5.94	67	2136665	196.1573	ug/L		78
12) 1,1,2-Trichloro-1,2,2-Trif	6.15	101	1662142	196.5993	ug/L		95
13) Acetone	6.24	43	187748	200.7963	ug/L		97
14) 1,1-Dichloroethene	6.46	61	2649821	196.6732	ug/L		92
15) Tert-Butyl Alcohol	6.58	59	6024	20.0950	ug/L	#	87
16) Dimethyl Sulfide	6.73	62	976862	205.8822	ug/L		82
17) Iodomethane	6.99	142	896947	398.7987	ug/L		100
18) Methyl acetate	7.00	43	504293	201.4324	ug/L	#	81
19) Methylene Chloride	7.25	84	1684780	196.5546	ug/L		52
20) Carbon Disulfide	7.29	76	5386210	189.2120	ug/L		99
21) Acrylonitrile	7.45	53	30354	26.0447	ug/L	#	32
22) Methyl Tert Butyl Ether	7.46	73	3711011	200.6529	ug/L		87
23) trans-1,2-Dichloroethene	7.70	61	2410498	194.2902	ug/L		92
24) n-Hexane	7.78	57	1821777	199.7288	ug/L		84
26) Vinyl Acetate	8.29	43	1796217	206.9060	ug/L	#	88
27) 1,1-Dichloroethane	8.32	63	3042055	197.9863	ug/L		95
29) 2-Butanone	8.88	43	271767	199.8193	ug/L	#	77
30) Propionitrile	8.90	54	208	0.5280	ug/L	#	1
31) 2,2-Dichloropropane	9.11	77	3202633	197.6970	ug/L		98
32) cis-1,2-Dichloroethene	9.17	96	1875631	195.8883	ug/L		89
33) Chloroform	9.37	83	3506648	191.9199	ug/L		99
34) 1-Bromopropane	9.51	122	286158	214.2313	ug/L		99
35) Bromochloromethane	9.60	130	980373	200.7807	ug/L		66
36) Tetrahydrofuran	9.62	42	2381	2.6275	ug/L		87
38) 1,1,1-Trichloroethane	9.91	97	3410306	197.7909	ug/L		99
39) Cyclohexane	9.94	56	2357393	198.8974	ug/L	#	66
40) 1,1-Dichloropropene	10.10	75	2601175	197.8946	ug/L		96
42) Carbon Tetrachloride	10.25	117	3062767	200.6417	ug/L		99
45) 1,2-Dichloroethane	10.42	62	2313662	198.0324	ug/L		85
46) Benzene	10.46	78	6379817	182.1771	ug/L		89
47) Trichloroethene	11.21	130	1810459	198.9741	ug/L		97
48) Methylcyclohexane	11.30	83	2755373	200.4193	ug/L		83
49) 1,2-Dichloropropane	11.43	63	1528407	202.0331	ug/L		74

(#) = qualifier out of range (m) = manual integration
8M412228.D 8260WT.M Fri May 13 17:43:34 2016 Page 1

Data File : C:\MSDchem\2\data\051316\8M412228.D Vial: 11
Acq On : 13 May 2016 17:21 Operator: TMB
Sample : WG568561-10 200ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 17:43:32 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 17:17:39 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

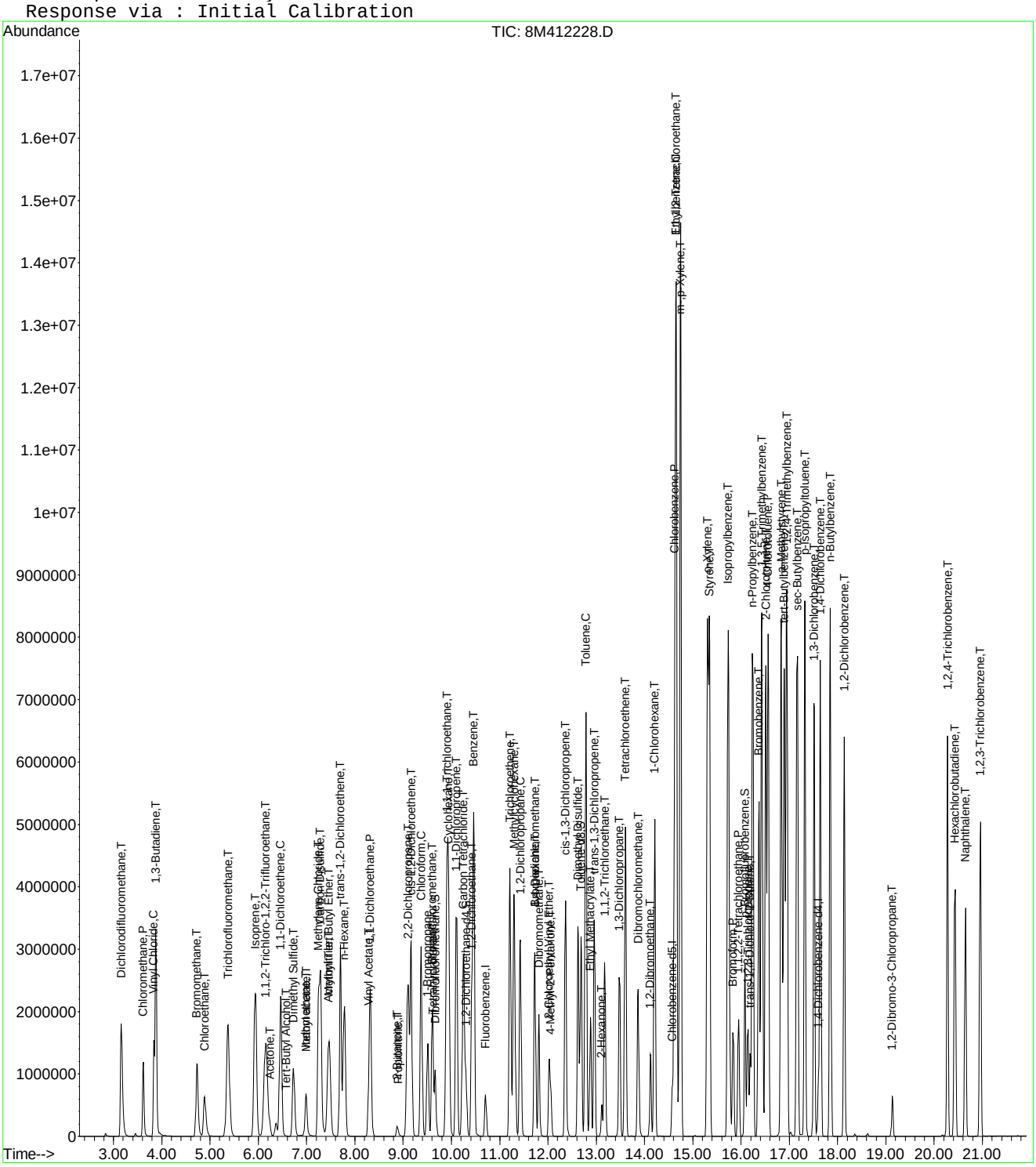
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	Bromodichloromethane	11.73	83	2716764	204.0895	ug/L		99
51)	1,4-Dioxane	11.73	88	3865	104.9352	ug/L	#	18
52)	Dibromomethane	11.81	93	898971	200.1154	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.02	63	631656	192.7236	ug/L		90
54)	4-Methyl-2-Pentanone	12.05	58	262702	198.3957	ug/L	#	75
55)	cis-1,3-Dichloropropene	12.36	75	2784162	205.9153	ug/L		99
56)	Dimethyl Disulfide	12.62	79	1518705	215.4711	ug/L		95
59)	Toluene	12.78	91	6564353	175.9274	ug/L		96
60)	Ethyl Methacrylate	12.88	69	1429837	209.8161	ug/L		71
62)	trans-1,3-Dichloropropene	12.96	75	2468609	205.4771	ug/L		98
63)	1,1,2-Trichloroethane	13.18	97	1124672	197.6019	ug/L		100
64)	2-Hexanone	13.12	58	237678	200.9290	ug/L	#	81
65)	1,3-Dichloropropane	13.48	76	2023247	199.9545	ug/L		76
66)	Tetrachloroethene	13.60	164	1546618	200.8018	ug/L		97
67)	Dibromochloromethane	13.87	129	1726523	210.5823	ug/L		100
68)	1,2-Dibromoethane	14.12	107	1163160	207.0667	ug/L		99
69)	1-Chlorohexane	14.21	91	2414147	195.6413	ug/L		83
70)	Chlorobenzene	14.62	112	4641169	187.6386	ug/L		94
71)	1,1,1,2-Tetrachloroethane	14.66	131	1929251	206.8372	ug/L		99
72)	Ethylbenzene	14.66	106	2611321	195.8267	ug/L		88
73)	m-,p-Xylene	14.75	106	5876234	367.8657	ug/L		83
74)	o-Xylene	15.31	106	3012318	196.4899	ug/L		98
75)	Styrene	15.35	104	4913204	194.1235	ug/L		86
76)	Bromoform	15.83	173	1052629	218.7989	ug/L		100
77)	Isopropylbenzene	15.73	105	7284624	172.7305	ug/L		97
79)	1,1,2,2-Tetrachloroethane	15.95	83	1237171	205.8673	ug/L		98
81)	1,2,3-Trichloropropane	16.14	110	386738	209.7906	ug/L	#	54
82)	trans-1,4-Dichloro-2-Buten	16.19	53	382467	243.6526	ug/L		76
83)	n-Propylbenzene	16.24	91	8244387	166.5110	ug/L		93
84)	Bromobenzene	16.37	156	1935166	200.1305	ug/L		95
85)	1,3,5-Trimethylbenzene	16.43	105	6482975	183.9948	ug/L		98
86)	2-Chlorotoluene	16.52	91	6108308	178.8549	ug/L		99
87)	4-Chlorotoluene	16.56	91	5513221	180.5508	ug/L		99
88)	a-Methylstyrene	16.84	118	3255254	200.4995	ug/L		89
89)	tert-Butylbenzene	16.90	134	1351569	202.1005	ug/L		92
90)	1,2,4-Trimethylbenzene	16.95	105	6531416	179.2445	ug/L		97
91)	sec-Butylbenzene	17.17	105	7342730	173.9814	ug/L		97
92)	p-Isopropyltoluene	17.32	119	6352010	178.7315	ug/L		99
93)	1,3-Dichlorobenzene	17.52	146	3640547	193.1654	ug/L		90
94)	1,4-Dichlorobenzene	17.64	146	3593548	188.4603	ug/L		91
95)	n-Butylbenzene	17.85	91	6198060	175.4375	ug/L		97
96)	1,2-Dichlorobenzene	18.14	146	3171699	188.9651	ug/L		89
97)	1,2-Dibromo-3-Chloropropan	19.13	75	249646	207.5645	ug/L		88
98)	1,2,4-Trichlorobenzene	20.28	180	2480626	199.7296	ug/L		99
99)	Hexachlorobutadiene	20.43	225	1169411	202.7981	ug/L		98
100)	Naphthalene	20.65	128	3580198	192.0323	ug/L		97
101)	1,2,3-Trichlorobenzene	20.96	180	2040570	193.9298	ug/L		100

(#) = qualifier out of range (m) = manual integration
8M412228.D 8260WT.M Fri May 13 17:43:35 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\051316\8M412228.D Vial: 11
Acq On : 13 May 2016 17:21 Operator: TMB
Sample : WG568561-10 200ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 17:43 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 17:17:39 2016
Response via : Initial Calibration



8M412228.D 8260WT.M Fri May 13 17:43:35 2016 Page 3

Data File : C:\MSDchem\2\data\051316\8M412229.D Vial: 12
Acq On : 13 May 2016 17:50 Operator: TMB
Sample : WG568561-11 300ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 18:12:33 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 17:17:39 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	855409	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	599314	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	305726	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.66	111	1411837	154.4674	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 617.88%#			
43) 1,2-Dichloroethane-d4	10.30	65	1466019	148.1811	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 592.72%#			
58) Toluene-d8	12.69	98	4594713	145.5601	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 582.24%#			
80) p-Bromofluorobenzene	16.08	95	1918996	151.7813	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 607.12%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.16	85	4191932	292.0014	ug/L	97
3) Chloromethane	3.62	50	2474035	293.7212	ug/L	97
4) Vinyl Chloride	3.83	62	2956347	297.5552	ug/L	94
5) 1,3-Butadiene	3.87	54	2605506	318.3447	ug/L	94
6) Bromomethane	4.72	94	2177550	421.2239	ug/L	98
7) Chloroethane	4.89	64	1688005	311.2693	ug/L	90
8) Trichlorofluoromethane	5.37	101	5387662	289.6161	ug/L	99
9) Diethyl ether	5.90	59	1306432	295.4610	ug/L	80
10) Isoprene	5.93	67	3377164	300.3032	ug/L	78
11) Acrolein	6.14	56	70572	185.7401	ug/L	97
12) 1,1,2-Trichloro-1,2,2-Trif	6.15	101	2563878	293.7317	ug/L	94
13) Acetone	6.24	43	283185	293.3529	ug/L	90
14) 1,1-Dichloroethene	6.46	61	4031745	289.8421	ug/L	91
15) Tert-Butyl Alcohol	6.58	59	181796	587.3907	ug/L	90
16) Dimethyl Sulfide	6.73	62	1553493	317.1280	ug/L	81
17) Iodomethane	6.99	142	1347307	580.2206	ug/L	98
18) Methyl acetate	7.00	43	800046	309.5287	ug/L #	80
19) Methylene Chloride	7.24	84	2587731	292.4144	ug/L	52
20) Carbon Disulfide	7.29	76	8228181	279.9683	ug/L	98
21) Acrylonitrile	7.43	53	228227	189.6753	ug/L	94
22) Methyl Tert Butyl Ether	7.46	73	5605924	293.5892	ug/L	88
23) trans-1,2-Dichloroethene	7.70	61	3678699	287.1957	ug/L	92
24) n-Hexane	7.78	57	2863434	304.0691	ug/L	86
25) Diisopropyl ether	8.12	45	5819647	292.7898	ug/L #	89
26) Vinyl Acetate	8.30	43	2819503	314.5767	ug/L #	87
27) 1,1-Dichloroethane	8.32	63	4586531	289.1293	ug/L	94
28) Ethyl-Tert-Butyl ether	8.70	59	6190206	290.3321	ug/L	89
29) 2-Butanone	8.88	43	439359	312.8959	ug/L #	76
30) Propionitrile	8.99	54	133197	327.4673	ug/L	95
31) 2,2-Dichloropropane	9.10	77	4821388	288.2735	ug/L	98
32) cis-1,2-Dichloroethene	9.17	96	2847005	287.9976	ug/L	89
33) Chloroform	9.37	83	5197860	275.5447	ug/L	100
34) 1-Bromopropane	9.51	122	450012	326.3179	ug/L	100
35) Bromochloromethane	9.61	130	1490221	295.6112	ug/L	66
36) Tetrahydrofuran	9.63	42	271736	290.4491	ug/L #	62
38) 1,1,1-Trichloroethane	9.91	97	5126354	287.9792	ug/L	98
39) Cyclohexane	9.94	56	3733392	305.0987	ug/L #	67
40) 1,1-Dichloropropene	10.11	75	3923871	289.1471	ug/L	97
41) Tert-Amyl-Methyl ether	10.21	73	5639573	291.3713	ug/L	88
42) Carbon Tetrachloride	10.25	117	4598150	291.7629	ug/L	99

(#) = qualifier out of range (m) = manual integration
8M412229.D 8260WT.M Fri May 13 18:12:35 2016 Page 1

Data File : C:\MSDchem\2\data\051316\8M412229.D Vial: 12
Acq On : 13 May 2016 17:50 Operator: TMB
Sample : WG568561-11 300ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 18:12:33 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 17:17:39 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

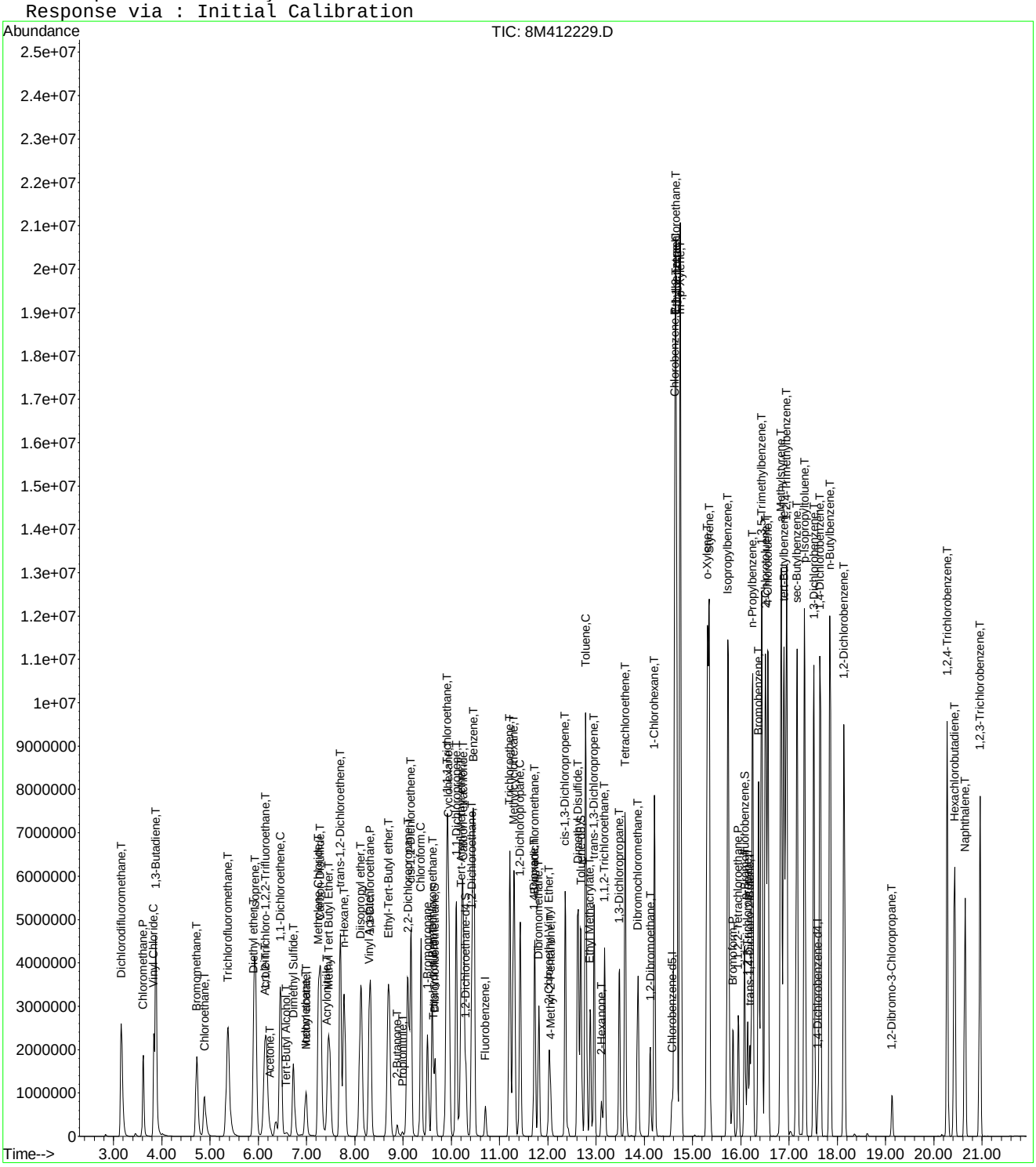
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.43	62	3468738	287.5726	ug/L		86
46)	Benzene	10.46	78	9065861	250.7462	ug/L		93
47)	Trichloroethene	11.21	130	2772282	295.1106	ug/L		97
48)	Methylcyclohexane	11.30	83	4327357	304.8748	ug/L		84
49)	1,2-Dichloropropane	11.43	63	2350729	300.9718	ug/L		74
50)	Bromodichloromethane	11.73	83	4051493	294.7973	ug/L		99
51)	1,4-Dioxane	11.72	88	26614	699.8767	ug/L		67
52)	Dibromomethane	11.81	93	1369945	295.3776	ug/L		97
53)	2-Chloroethyl Vinyl Ether	12.03	63	1006317	297.3917	ug/L		90
54)	4-Methyl-2-Pentanone	12.06	58	424684	310.6522	ug/L	#	76
55)	cis-1,3-Dichloropropene	12.36	75	4156310	297.7431	ug/L		97
56)	Dimethyl Disulfide	12.63	79	2359825	324.2911	ug/L		94
59)	Toluene	12.78	91	9135213	236.4669	ug/L		90
60)	Ethyl Methacrylate	12.88	69	2228037	315.7801	ug/L		71
62)	trans-1,3-Dichloropropene	12.96	75	3700845	297.5240	ug/L		96
63)	1,1,2-Trichloroethane	13.18	97	1730199	293.6104	ug/L		100
64)	2-Hexanone	13.11	58	381967	311.8816	ug/L	#	78
65)	1,3-Dichloropropane	13.49	76	3080177	294.0141	ug/L		76
66)	Tetrachloroethene	13.60	164	2374435	297.7522	ug/L		96
67)	Dibromochloromethane	13.87	129	2638145	310.7838	ug/L		100
68)	1,2-Dibromoethane	14.13	107	1778561	305.8085	ug/L		99
69)	1-Chlorohexane	14.21	91	3712592	290.5924	ug/L		84
70)	Chlorobenzene	14.63	112	6754240	263.7433	ug/L		90
71)	1,1,1,2-Tetrachloroethane	14.65	131	2967650	307.3001	ug/L		100
72)	Ethylbenzene	14.65	106	4014412	290.7661	ug/L		70
73)	m-,p-Xylene	14.75	106	8357822	505.3514	ug/L		70
74)	o-Xylene	15.31	106	4530840	285.4488	ug/L		88
75)	Styrene	15.35	104	7050702	269.0641	ug/L		82
76)	Bromoform	15.84	173	1602587	321.7373	ug/L		99
77)	Isopropylbenzene	15.73	105	9900817	226.7477	ug/L		90
79)	1,1,2,2-Tetrachloroethane	15.95	83	1885953	309.3861	ug/L		98
81)	1,2,3-Trichloropropane	16.14	110	581198	310.8176	ug/L		61
82)	trans-1,4-Dichloro-2-Buten	16.18	53	589705	370.3601	ug/L		82
83)	n-Propylbenzene	16.25	91	10768378	214.4110	ug/L		86
84)	Bromobenzene	16.37	156	2947671	300.5290	ug/L		99
85)	1,3,5-Trimethylbenzene	16.43	105	8890651	248.7580	ug/L		92
86)	2-Chlorotoluene	16.51	91	7868844	227.1449	ug/L		92
87)	4-Chlorotoluene	16.57	91	7782731	251.2687	ug/L		93
88)	a-Methylstyrene	16.84	118	4955768	300.9205	ug/L		86
89)	tert-Butylbenzene	16.90	134	2046401	301.6701	ug/L		95
90)	1,2,4-Trimethylbenzene	16.95	105	8903769	240.8932	ug/L		89
91)	sec-Butylbenzene	17.17	105	9867862	230.5051	ug/L		91
92)	p-Isopropyltoluene	17.32	119	8738927	242.4155	ug/L		94
93)	1,3-Dichlorobenzene	17.52	146	5319954	278.2806	ug/L		87
94)	1,4-Dichlorobenzene	17.64	146	5248511	271.3593	ug/L		88
95)	n-Butylbenzene	17.85	91	8408157	234.6279	ug/L		92
96)	1,2-Dichlorobenzene	18.14	146	4717385	277.0787	ug/L		87
97)	1,2-Dibromo-3-Chloropropan	19.13	75	377070	309.0741	ug/L		91
98)	1,2,4-Trichlorobenzene	20.28	180	3677657	291.9206	ug/L		98
99)	Hexachlorobutadiene	20.43	225	1780695	304.4378	ug/L		96
100)	Naphthalene	20.65	128	5216751	275.8542	ug/L		95
101)	1,2,3-Trichlorobenzene	20.96	180	3064908	287.1593	ug/L		99

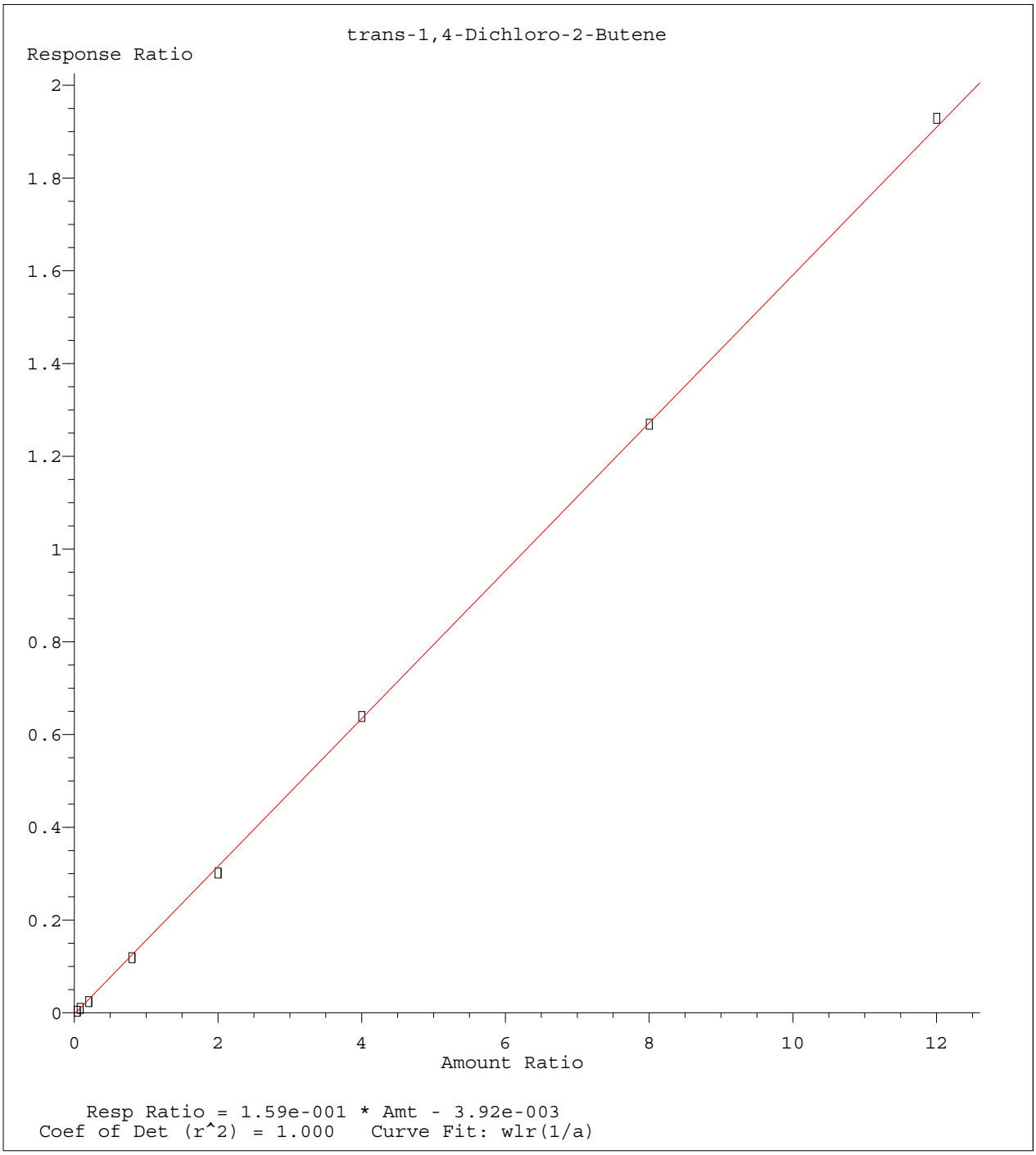
(#) = qualifier out of range (m) = manual integration
8M412229.D 8260WT.M Fri May 13 18:12:36 2016 Page 2

Quantitation Report (Not Reviewed)

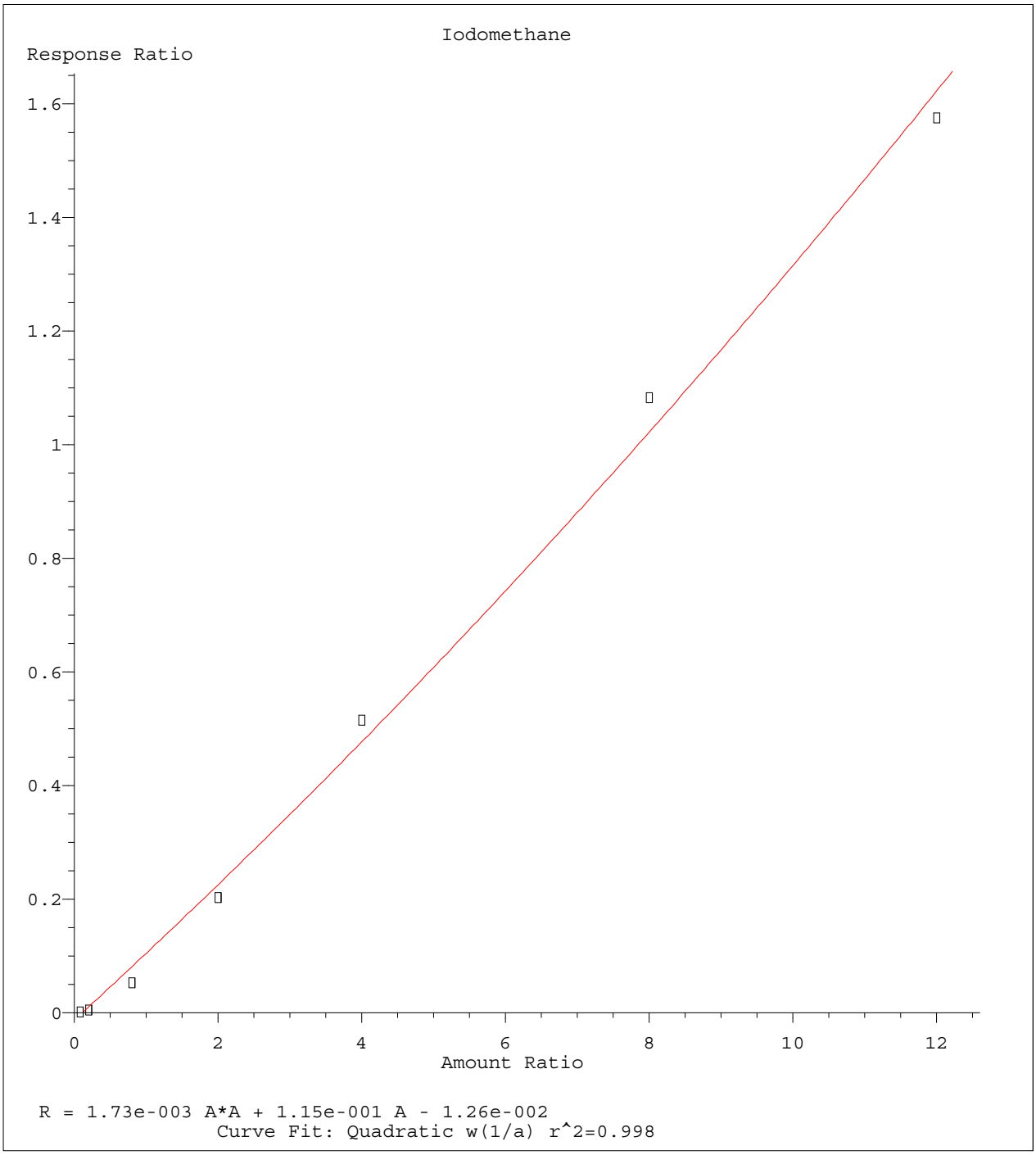
Data File : C:\MSDchem\2\data\051316\8M412229.D Vial: 12
Acq On : 13 May 2016 17:50 Operator: TMB
Sample : WG568561-11 300ug/L STD 8260 Inst : HPMS8
Misc : 1,1 STD76127 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 18:12 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Fri May 13 17:17:39 2016
Response via : Initial Calibration

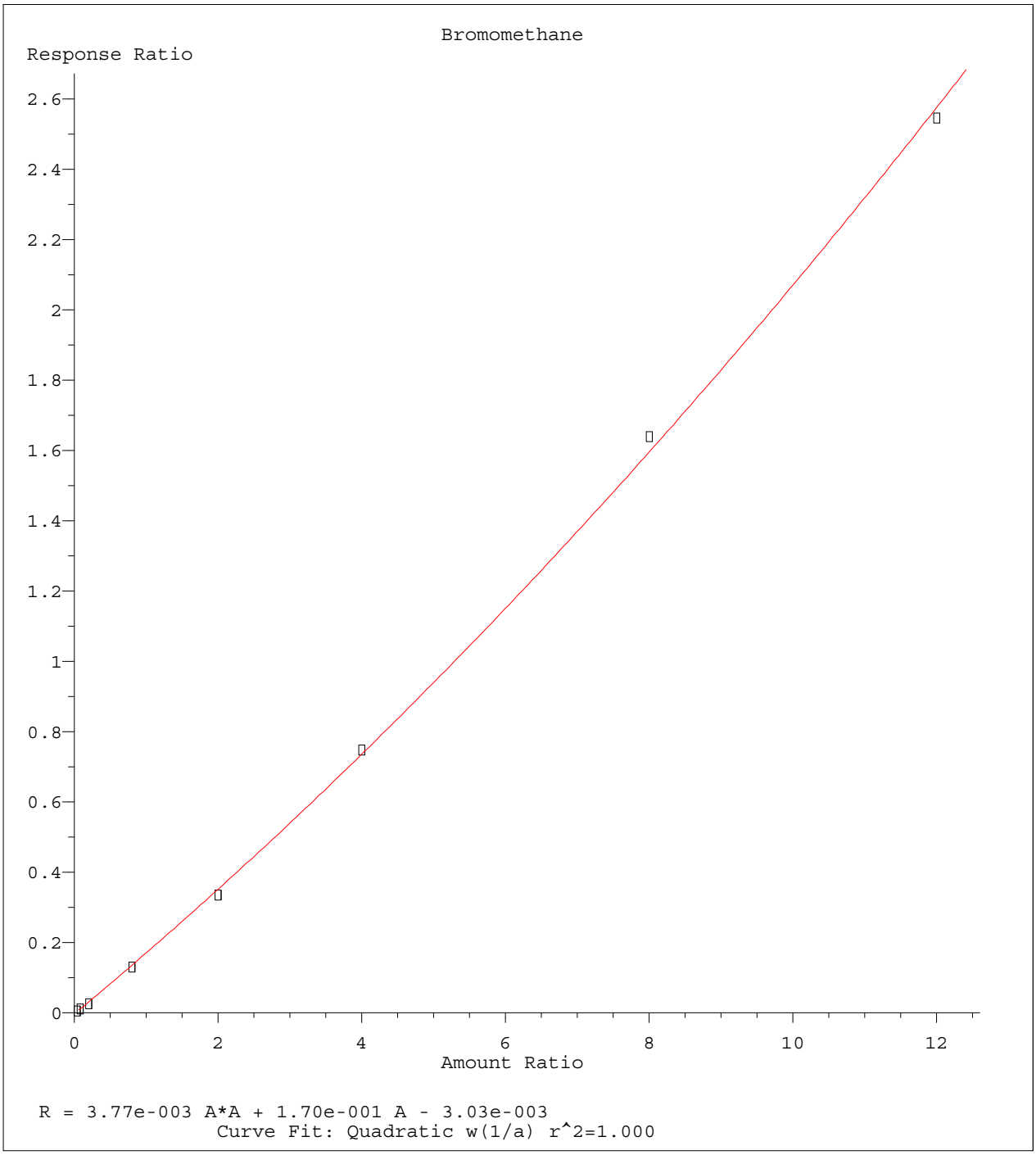




Method Name: K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:08:06 2016



Method Name: K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:08:06 2016



Method Name: K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M
Calibration Table Last Updated: Sat May 14 18:08:06 2016

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\2\DATA\051316\8M412232.D Vial: 15
Acq On : 13 May 2016 19:17 Operator: TMB
Sample : WG568561-12 50ug/L ALT SRC STD 8260 Inst : HPMS8
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 11:44:36 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Tue May 17 11:43:20 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	837879	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.58	117	574720	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	304324	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.67	111	229742	25.5204 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 102.08%		
43) 1,2-Dichloroethane-d4	10.31	65	238672	24.7259 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 98.92%		
58) Toluene-d8	12.68	98	776362	25.8115 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.24%		
80) p-Bromofluorobenzene	16.07	95	315683	25.0519 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 100.20%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.17	85	761591	54.2141 ug/L	99
3) Chloromethane	3.62	50	415589	50.6814 ug/L	100
4) Vinyl Chloride	3.84	62	509607	52.3810 ug/L	100
5) 1,3-Butadiene	3.88	54	347562	42.6002 ug/L	97
6) Bromomethane	4.73	94	272060	46.3924 ug/L	99
7) Chloroethane	4.88	64	285509	53.3336 ug/L	98
8) Trichlorofluoromethane	5.37	101	849580	46.9313 ug/L	100
9) Diethyl ether	5.90	59	451307	104.4282 ug/L	99
10) Isoprene	5.93	67	582863	53.0208 ug/L	99
11) Acrolein	6.13	56	38877	100.4722 ug/L	99
12) 1,1,2-Trichloro-1,2,2-Trif	6.15	101	419584	49.3091 ug/L	97
13) Acetone	6.23	43	54234	57.5310 ug/L	94
14) 1,1-Dichloroethene	6.46	61	622831	45.9700 ug/L	99
15) Tert-Butyl Alcohol	6.59	59	59797	197.9422 ug/L	97
16) Dimethyl Sulfide	6.73	62	351814	72.6234 ug/L	98
17) Iodomethane	6.99	142	92716	26.2832 ug/L	99
18) Methyl acetate	7.00	43	127540	50.0514 ug/L	98
19) Methylene Chloride	7.25	84	417642	48.4385 ug/L	99
20) Carbon Disulfide	7.29	76	1199899	42.3200 ug/L	100
21) Acrylonitrile	7.43	53	65324	53.4074 ug/L	93
22) Methyl Tert Butyl Ether	7.46	73	949572	50.8859 ug/L	97
23) trans-1,2-Dichloroethene	7.70	61	598296	48.0666 ug/L	99
24) n-Hexane	7.77	57	425106	45.9930 ug/L	99
25) Diisopropyl ether	8.13	45	2040382	105.1615 ug/L	98
26) Vinyl Acetate	8.29	43	415568	46.7802 ug/L	99
27) 1,1-Dichloroethane	8.32	63	721661	46.6846 ug/L	99
28) Ethyl-Tert-Butyl ether	8.70	59	2040020	98.1343 ug/L	99
29) 2-Butanone	8.88	43	73394	52.9905 ug/L	99
30) Propionitrile	8.98	54	42290	104.7756 ug/L	100
31) 2,2-Dichloropropane	9.10	77	780073	47.8861 ug/L	99
32) cis-1,2-Dichloroethene	9.16	96	470465	48.9162 ug/L	98
33) Chloroform	9.38	83	860252	47.1317 ug/L	100
34) 1-Bromopropane	9.51	122	98585	71.5615 ug/L	98
35) Bromochloromethane	9.60	130	234493	47.5456 ug/L	99
36) Tetrahydrofuran	9.62	42	86049	94.3281 ug/L	99
38) 1,1,1-Trichloroethane	9.90	97	825167	47.5949 ug/L	100
39) Cyclohexane	9.93	56	586721	48.8808 ug/L	97
40) 1,1-Dichloropropene	10.10	75	627217	47.4632 ug/L	99
41) Tert-Amyl-Methyl ether	10.21	73	1962875	103.9618 ug/L	99
42) Carbon Tetrachloride	10.24	117	711823	46.2363 ug/L	100

(#) = qualifier out of range (m) = manual integration
8M412232.D 8260WT.M Tue May 17 11:44:38 2016 Page 1

Data File : C:\MSDCHEM\2\DATA\051316\8M412232.D Vial: 15
Acq On : 13 May 2016 19:17 Operator: TMB
Sample : WG568561-12 50ug/L ALT SRC STD 8260 Inst : HPMS8
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	108	0.00
2	T	Dichlorodifluoromethane	50.0000	54.2141	-8.4	112	0.00
3	P	Chloromethane	50.0000	50.6814	-1.4	111	0.00
4	C	Vinyl Chloride	50.0000	52.3811	-4.8	112	-0.01
5	T	1,3-Butadiene	50.0000	42.6002	14.8	89	0.00
6	T	Bromomethane	50.0000	46.3924	7.2	104	-0.01
7	T	Chloroethane	50.0000	53.3336	-6.7	117	-0.01
8	T	Trichlorofluoromethane	50.0000	46.9313	6.1	101	-0.01
9	T	Diethyl ether	100.0000	104.4282	-4.4	116	0.00
10	T	Isoprene	50.0000	53.0208	-6.0	117	0.00
11	T	Acrolein	50.0000	100.4722	-100.9#	220	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	49.3091	1.4	108	0.00
13	T	Acetone	50.0000	57.5310	-15.1	118	-0.01
14	C	1,1-Dichloroethene	50.0000	45.9700	8.1	100	0.00
15	T	Tert-Butyl Alcohol	200.0000	197.9423	1.0	108	0.01
16	T	Dimethyl Sulfide	50.0000	72.6234	-45.2#	159	0.00
17	T	Iodomethane	50.0000	26.2832	47.4#	59	0.01
18	T	Methyl acetate	50.0000	50.0514	-0.1	111	0.00
19	T	Methylene Chloride	50.0000	48.4385	3.1	107	0.00
20	T	Carbon Disulfide	50.0000	42.3200	15.4	94	0.00
21	T	Acrylonitrile	50.0000	53.4074	-6.8	109	0.00
22	T	Methyl Tert Butyl Ether	50.0000	50.8859	-1.8	105	0.00
23	T	trans-1,2-Dichloroethene	50.0000	48.0666	3.9	105	0.00
24	T	n-Hexane	50.0000	45.9930	8.0	101	-0.01
25	T	Diisopropyl ether	100.0000	105.1615	-5.2	115	0.00
26	T	Vinyl Acetate	50.0000	46.7802	6.4	97	0.00
27	P	1,1-Dichloroethane	50.0000	46.6846	6.6	100	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	98.1343	1.9	104	0.00
29	T	2-Butanone	50.0000	52.9905	-6.0	110	0.00
30	T	Propionitrile	100.0000	104.7756	-4.8	111	0.00
31	T	2,2-Dichloropropane	50.0000	47.8861	4.2	102	0.00
32	T	cis-1,2-Dichloroethene	50.0000	48.9162	2.2	107	-0.01
33	C	Chloroform	50.0000	47.1317	5.7	102	0.00
34		1-Bromopropane	50.0000	71.5615	-43.1#	155	0.00
35	T	Bromochloromethane	50.0000	47.5456	4.9	102	0.00
36	T	Tetrahydrofuran	100.0000	94.3281	5.7	108	-0.01
37	S	Dibromofluoromethane	25.0000	25.5204	-2.1	109	0.00
38	T	1,1,1-Trichloroethane	50.0000	47.5949	4.8	101	0.00
39	T	Cyclohexane	50.0000	48.8808	2.2	109	0.00
40	T	1,1-Dichloropropene	50.0000	47.4632	5.1	102	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	103.9618	-4.0	111	0.00
42	T	Carbon Tetrachloride	50.0000	46.2363	7.5	98	0.00
43	S	1,2-Dichloroethane-d4	25.0000	24.7259	1.1	104	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	50.0000	49.0148	2.0	103	0.00
46	T	Benzene	50.0000	48.5232	3.0	104	0.00
47	T	Trichloroethene	50.0000	51.0658	-2.1	110	0.00
48	T	Methylcyclohexane	50.0000	49.8573	0.3	109	0.00
49	C	1,2-Dichloropropane	50.0000	50.9747	-1.9	111	0.00
50	T	Bromodichloromethane	50.0000	48.3053	3.4	99	0.00
51	T	1,4-Dioxane	200.0000	216.9538	-8.5	110	0.01
52	T	Dibromomethane	50.0000	45.8126	8.4	99	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	51.2623	-2.5	104	0.00
54	T	4-Methyl-2-Pentanone	50.0000	51.8715	-3.7	107	0.00

(#) = Out of Range
8M412232.D 8260WT.M Sat May 14 18:09:02 2016 Page 1

Data File : C:\MSDCHEM\2\DATA\051316\8M412232.D Vial: 15
Acq On : 13 May 2016 19:17 Operator: TMB
Sample : WG568561-12 50ug/L ALT SRC STD 8260 Inst : HPMS8
Misc : 1,1 STD76109 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	50.0000	53.8979	-7.8	111	0.00
56	T	Dimethyl Disulfide	50.0000	52.2714	-4.5	111	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	107	0.00
58	S	Toluene-d8	25.0000	25.8115	-3.2	108	0.00
59	C	Toluene	50.0000	49.0912	1.8	105	0.00
60	T	Ethyl Methacrylate	50.0000	55.9509	-11.9	113	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	50.0000	50.6740	-1.3	102	0.00
63	T	1,1,2-Trichloroethane	50.0000	49.0377	1.9	103	0.00
64	T	2-Hexanone	50.0000	53.6057	-7.2	112	0.00
65	T	1,3-Dichloropropane	50.0000	53.6720	-7.3	110	0.00
66	T	Tetrachloroethene	50.0000	47.8053	4.4	104	0.00
67	T	Dibromochloromethane	50.0000	49.6585	0.7	102	0.00
68	T	1,2-Dibromoethane	50.0000	51.1121	-2.2	105	0.00
69	T	1-Chlorohexane	50.0000	51.0611	-2.1	111	0.00
70	P	Chlorobenzene	50.0000	50.1844	-0.4	108	0.00
71	T	1,1,1,2-Tetrachloroethane	50.0000	49.3793	1.2	103	0.00
72	C	Ethylbenzene	50.0000	48.2013	3.6	105	0.00
73	T	m-,p-Xylene	100.0000	101.1341	-1.1	108	0.00
74	T	o-Xylene	50.0000	50.5675	-1.1	108	0.00
75	T	Styrene	50.0000	51.5086	-3.0	105	0.00
76	P	Bromoform	50.0000	48.2227	3.6	99	0.00
77	T	Isopropylbenzene	50.0000	51.1140	-2.2	107	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	106	0.00
79	P	1,1,2,2-Tetrachloroethane	50.0000	49.6172	0.8	103	0.00
80	S	p-Bromofluorobenzene	25.0000	25.0519	-0.2	108	0.00
81	T	1,2,3-Trichloropropane	50.0000	50.0849	-0.2	106	0.01
82	T	trans-1,4-Dichloro-2-Butene	50.0000	39.2043	21.6	86	0.00
83	T	n-Propylbenzene	50.0000	51.9237	-3.8	108	0.00
84	T	Bromobenzene	50.0000	49.4648	1.1	105	0.00
85	T	1,3,5-Trimethylbenzene	50.0000	51.6344	-3.3	107	0.00
86	T	2-Chlorotoluene	50.0000	51.5639	-3.1	106	0.00
87	T	4-Chlorotoluene	50.0000	48.2650	3.5	108	0.00
88	T	a-Methylstyrene	50.0000	56.4132	-12.8	120	0.00
89	T	tert-Butylbenzene	50.0000	50.9494	-1.9	112	0.00
90	T	1,2,4-Trimethylbenzene	50.0000	49.6617	0.7	105	0.00
91	T	sec-Butylbenzene	50.0000	51.3386	-2.7	108	0.00
92	T	p-Isopropyltoluene	50.0000	50.1261	-0.3	107	0.00
93	T	1,3-Dichlorobenzene	50.0000	50.8943	-1.8	108	0.00
94	T	1,4-Dichlorobenzene	50.0000	50.4742	-0.9	110	0.00
95	T	n-Butylbenzene	50.0000	49.6520	0.7	105	0.00
96	T	1,2-Dichlorobenzene	50.0000	50.4907	-1.0	110	0.00
97	T	1,2-Dibromo-3-Chloropropane	50.0000	48.4851	3.0	100	0.00
98	T	1,2,4-Trichlorobenzene	50.0000	50.1129	-0.2	107	0.00
99	T	Hexachlorobutadiene	50.0000	52.0919	-4.2	115	0.00
100	T	Naphthalene	50.0000	45.8047	8.4	95	0.00
101	T	1,2,3-Trichlorobenzene	50.0000	47.7353	4.5	106	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412232.D 8260WT.M Sat May 14 18:09:03 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\051716\8M412321.D Vial: 3
Acq On : 17 May 2016 9:47 Operator: TMB
Sample : WG569079-01 100ug/L A9 CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 10:09:13 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

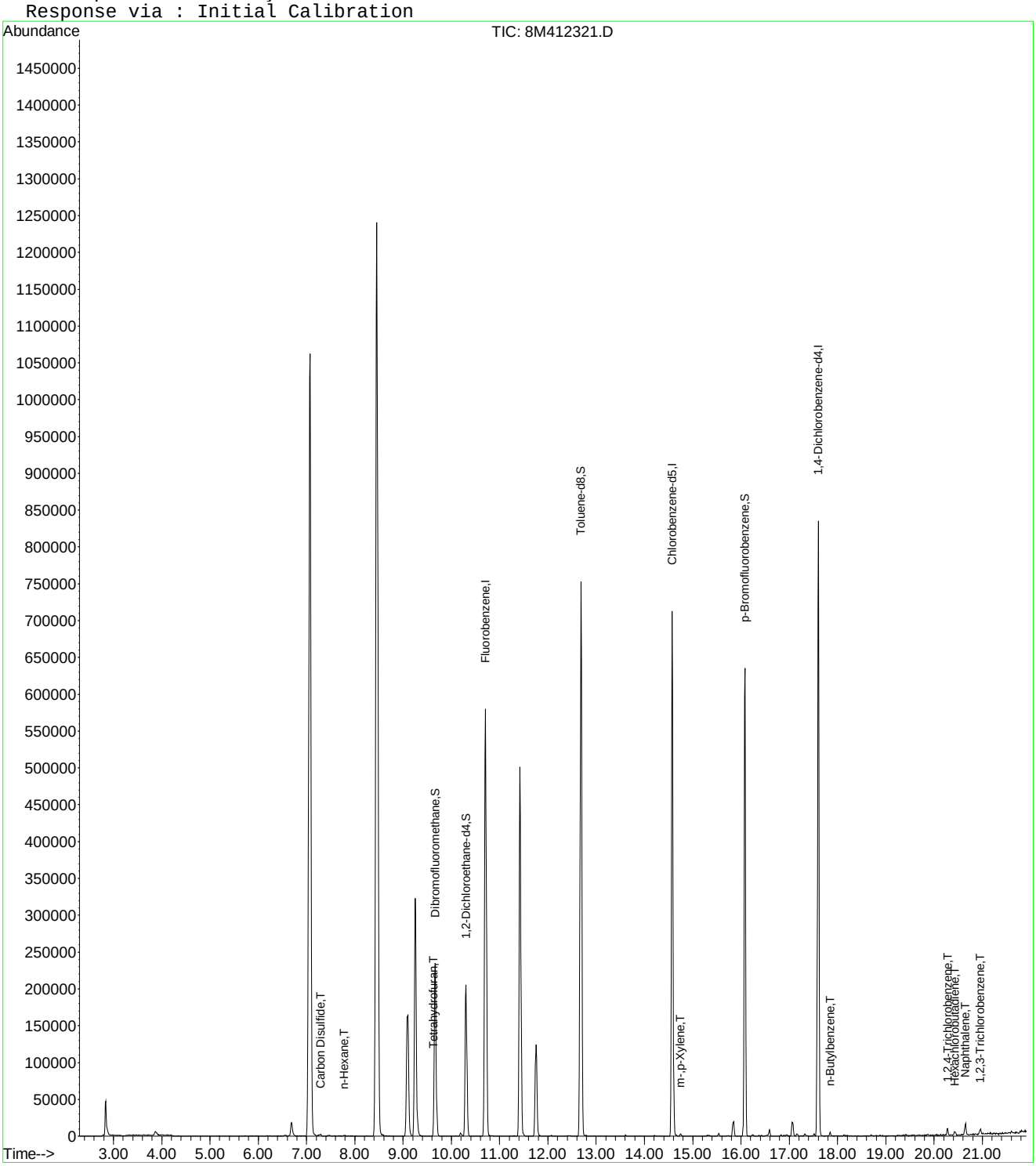
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	709364	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	505399	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	272922	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.66	111	205896	27.0151	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 108.08%			
43) 1,2-Dichloroethane-d4	10.30	65	220121	26.9355	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 107.76%			
58) Toluene-d8	12.68	98	699672	26.4524	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.80%			
80) p-Bromofluorobenzene	16.08	95	286164	25.3222	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 101.28%			
Target Compounds						Qvalue
20) Carbon Disulfide	7.30	76	4686	0.1952	ug/L #	74
24) n-Hexane	7.78	57	1147	0.1466	ug/L #	46
36) Tetrahydrofuran	9.63	42	1037	1.3427	ug/L #	52
73) m-,p-Xylene	14.75	106	1768	0.1302	ug/L	80
95) n-Butylbenzene	17.85	91	4563	0.1490	ug/L #	58
98) 1,2,4-Trichlorobenzene	20.28	180	3998	0.3566	ug/L	96
99) Hexachlorobutadiene	20.43	225	1713	0.3270	ug/L #	69
100) Naphthalene	20.65	128	15615	0.9375	ug/L	96
101) 1,2,3-Trichlorobenzene	20.96	180	4010	0.4240	ug/L	96

(#) = qualifier out of range (m) = manual integration
8M412321.D 8260WT.M Tue May 17 10:09:18 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\051716\8M412321.D Vial: 3
Acq On : 17 May 2016 9:47 Operator: TMB
Sample : WG569079-01 100ug/L A9 CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 10:09 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412321.D Vial: 3
Acq On : 17 May 2016 9:47 Operator: TMB
Sample : WG569079-01 100ug/L A9 CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:01:21 2016 Quant Results File: A9FOOWT.RES

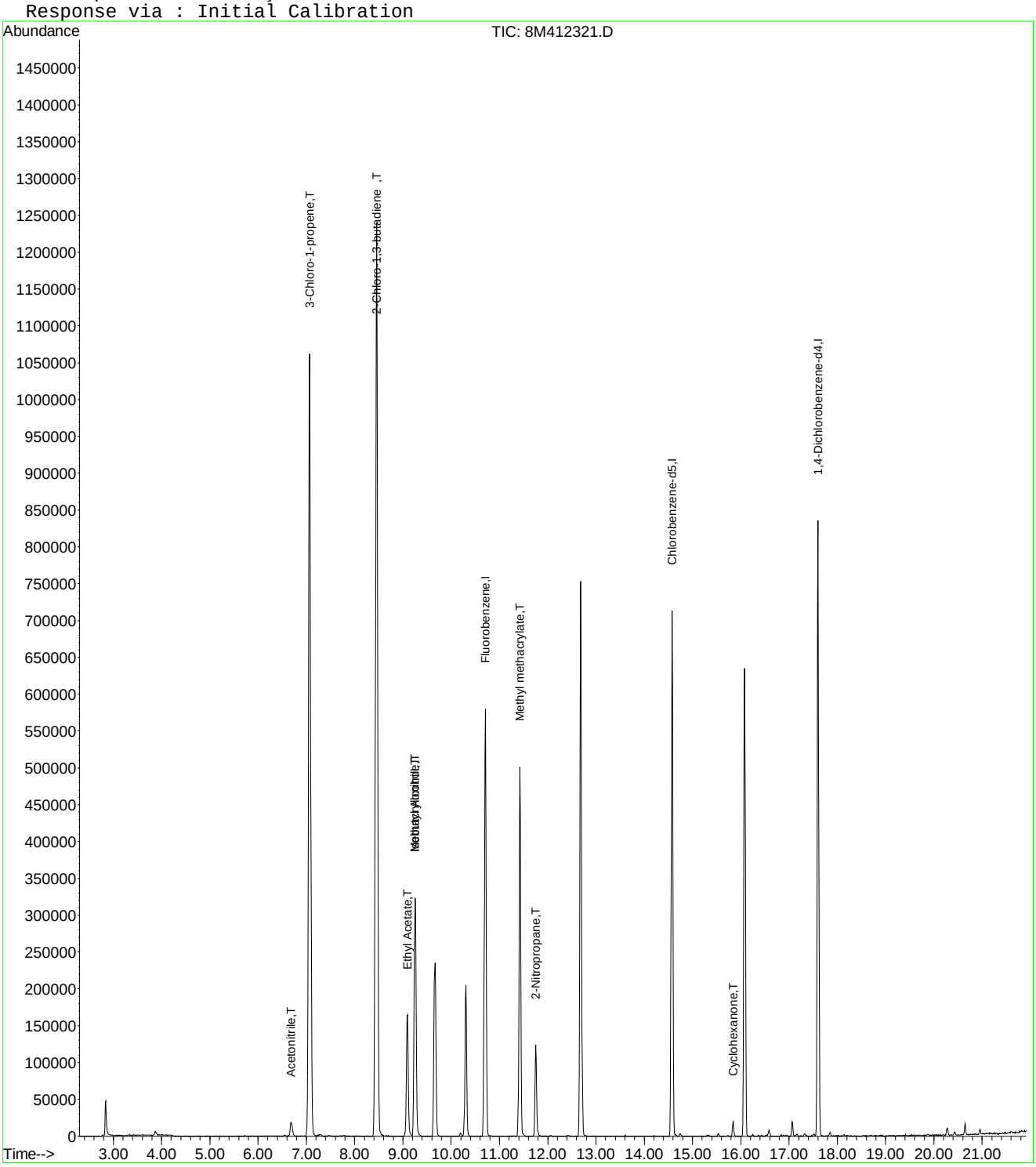
Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	709364	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.57	117	505399	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	272922	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.69	41	27428	100.2132	ug/L		99
3) 3-Chloro-1-propene	7.07	41	940418	104.3259	ug/L		82
4) 2-Chloro-1,3-butadiene	8.45	53	1188994	104.3183	ug/L		86
5) Ethyl Acetate	9.10	43	283167	104.3264	ug/L		95
6) Methacrylonitrile	9.25	67	155775	104.5365	ug/L	#	63
7) Isobutyl Alcohol	9.25	43	17893	197.3629	ug/L	#	96
9) Methyl methacrylate	11.42	41	298802	102.0346	ug/L		70
10) 2-Nitropropane	11.75	43	121321	95.8263	ug/L		97
13) Cyclohexanone	15.84	55	11401	102.1363	ug/L	#	70

(#) = qualifier out of range (m) = manual integration
8M412321.D A9FOOWT.M Thu May 19 09:01:22 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412321.D Vial: 3
Acq On : 17 May 2016 9:47 Operator: TMB
Sample : WG569079-01 100ug/L A9 CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:00 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412321.D Vial: 3
Acq On : 17 May 2016 9:47 Operator: TMB
Sample : WG569079-01 100ug/L A9 CCV STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	100.0000	100.2132	-0.2	100	0.00
3	T	3-Chloro-1-propene	100.0000	104.3259	-4.3	100	0.00
4	T	2-Chloro-1,3-butadiene	100.0000	104.3183	-4.3	100	0.00
5	T	Ethyl Acetate	100.0000	104.3264	-4.3	100	0.00
6	T	Methacrylonitrile	100.0000	104.5365	-4.5	100	0.00
7	T	Isobutyl Alcohol	200.0000	197.3629	1.3	100	-0.01
8	T	1-Butanol	-1.0000	0.0000	0.0	0	0.02
9	T	Methyl methacrylate	100.0000	102.0346	-2.0	100	0.00
10	T	2-Nitropropane	100.0000	95.8263	4.2	100	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	100.0000	102.1363	-2.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412321.D A9FOOWT.M Thu May 19 09:02:48 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\051716\8M412322.D Vial: 4
Acq On : 17 May 2016 10:16 Operator: TMB
Sample : WG569079-02 50ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 10:38:25 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

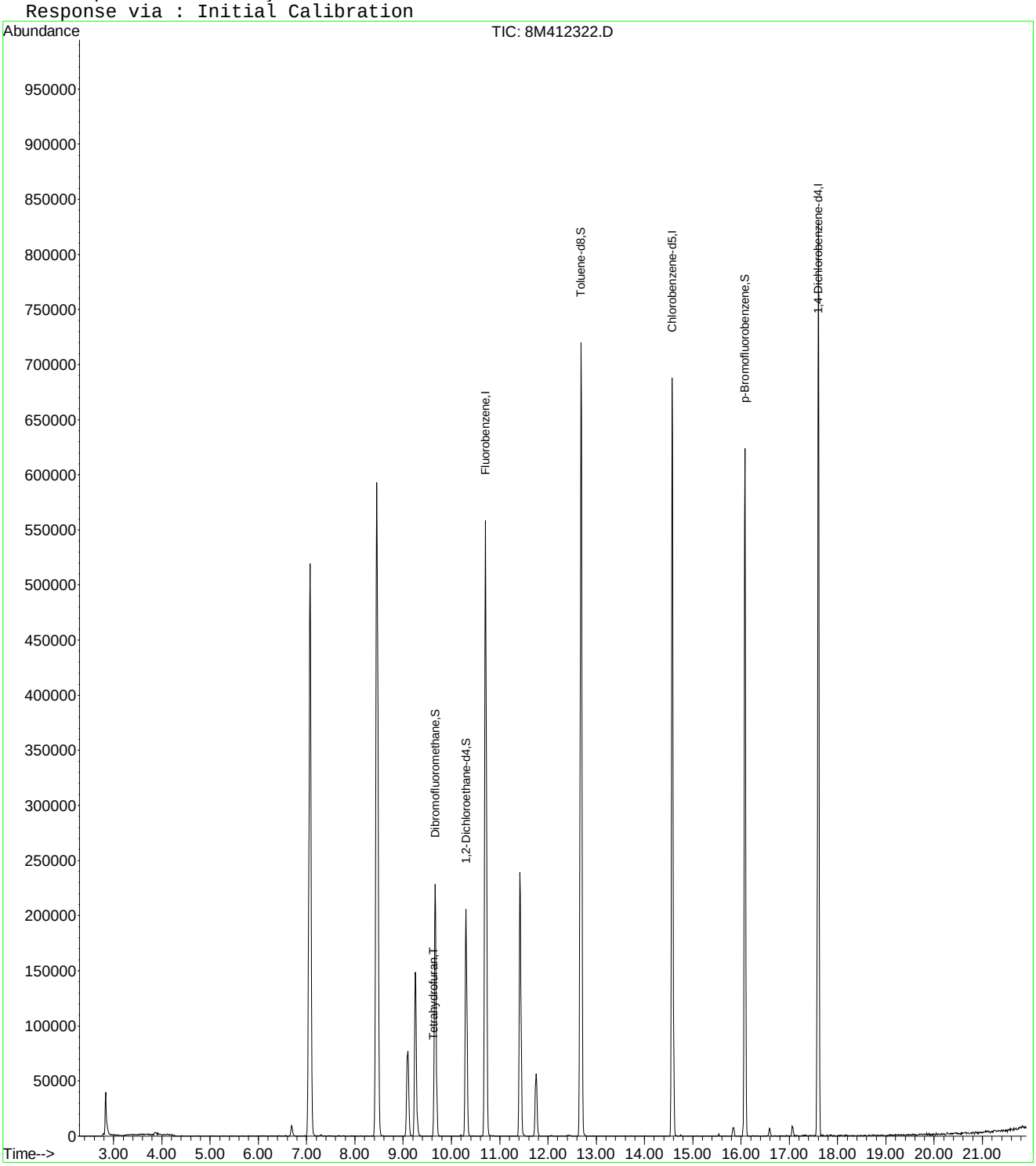
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	677339	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	488377	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	260939	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.66	111	194096	26.6709	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.68%			
43) 1,2-Dichloroethane-d4	10.30	65	218196	27.9623	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 111.84%			
58) Toluene-d8	12.68	98	674718	26.3980	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 105.60%			
80) p-Bromofluorobenzene	16.08	95	277576	25.6902	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.76%			
Target Compounds						Qvalue
36) Tetrahydrofuran	9.63	42	873	1.1838	ug/L #	24

(#) = qualifier out of range (m) = manual integration
8M412322.D 8260WT.M Tue May 17 10:38:27 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\051716\8M412322.D Vial: 4
Acq On : 17 May 2016 10:16 Operator: TMB
Sample : WG569079-02 50ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 10:38 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration



8M412322.D 8260WT.M Tue May 17 10:38:28 2016 Page 2

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412322.D Vial: 4
Acq On : 17 May 2016 10:16 Operator: TMB
Sample : WG569079-02 50ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:01:23 2016 Quant Results File: A9FOOWT.RES

Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

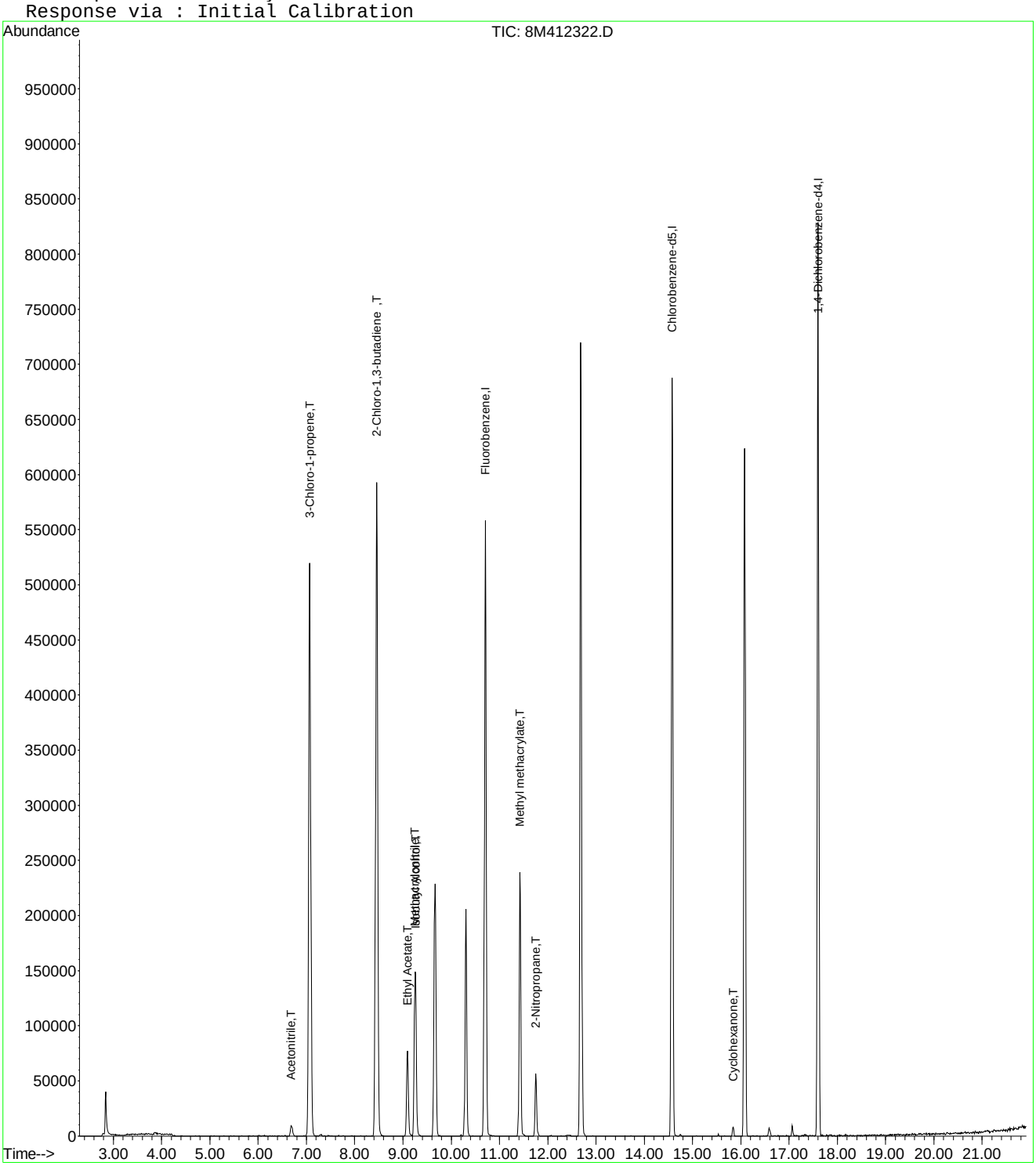
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	677339	25.00	ug/L	0.00
11) Chlorobenzene-d5	14.57	117	488377	25.00	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	260939	25.00	ug/L	0.00
Target Compounds						Qvalue
2) Acetonitrile	6.69	41	13323	50.9795	ug/L	98
3) 3-Chloro-1-propene	7.07	41	453655	52.7060	ug/L	83
4) 2-Chloro-1,3-butadiene	8.45	53	568765	52.2609	ug/L	87
5) Ethyl Acetate	9.09	43	131636	50.7913	ug/L	97
6) Methacrylonitrile	9.25	67	74064	52.0523	ug/L #	62
7) Isobutyl Alcohol	9.26	43	8483	97.9930	ug/L	95
9) Methyl methacrylate	11.42	41	143892	51.4593	ug/L	70
10) 2-Nitropropane	11.75	43	56559	46.7858	ug/L	95
13) Cyclohexanone	15.84	55	5225	48.9579	ug/L	83

(#) = qualifier out of range (m) = manual integration
8M412322.D A9FOOWT.M Thu May 19 09:01:24 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412322.D Vial: 4
Acq On : 17 May 2016 10:16 Operator: TMB
Sample : WG569079-02 50ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:00 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412322.D Vial: 4
Acq On : 17 May 2016 10:16 Operator: TMB
Sample : WG569079-03 50ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:20:35 2016 Quant Results File: A9FOOWT.RES

Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

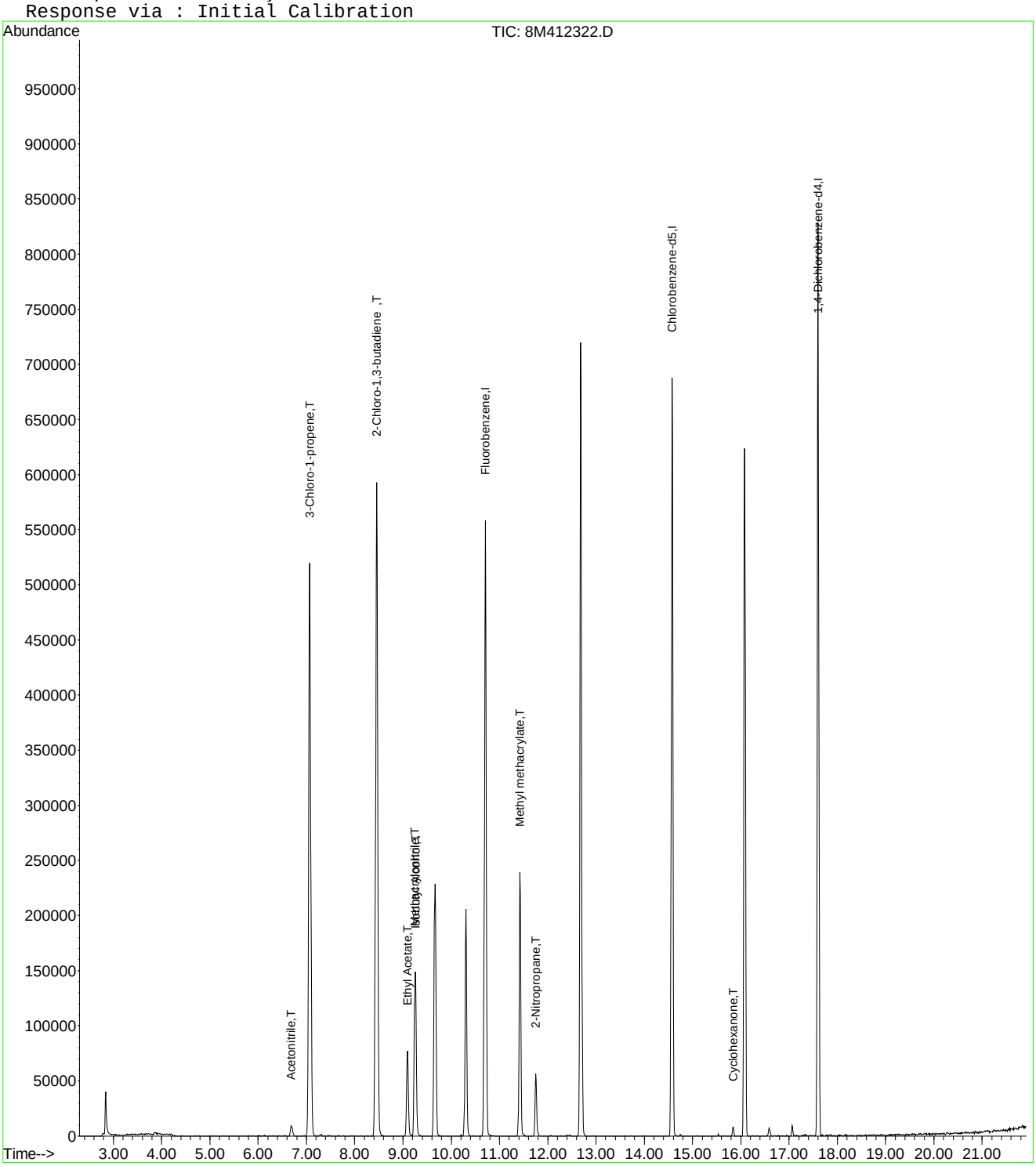
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	677339	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.57	117	488377	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	260939	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.69	41	13323	50.9795	ug/L		98
3) 3-Chloro-1-propene	7.07	41	453655	52.7060	ug/L		83
4) 2-Chloro-1,3-butadiene	8.45	53	568765	52.2609	ug/L		87
5) Ethyl Acetate	9.09	43	131636	50.7913	ug/L		97
6) Methacrylonitrile	9.25	67	74064	52.0523	ug/L	#	62
7) Isobutyl Alcohol	9.26	43	8483	97.9930	ug/L		95
9) Methyl methacrylate	11.42	41	143892	51.4593	ug/L		70
10) 2-Nitropropane	11.75	43	56559	46.7858	ug/L		95
13) Cyclohexanone	15.84	55	5225	48.9579	ug/L		83

(#) = qualifier out of range (m) = manual integration
8M412322.D A9FOOWT.M Thu May 19 09:20:36 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412322.D Vial: 4
Acq On : 17 May 2016 10:16 Operator: TMB
Sample : WG569079-03 50ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:19 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412322.D Vial: 4
Acq On : 17 May 2016 10:16 Operator: TMB
Sample : WG569079-02 50ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	50.0000	50.9795	-2.0	100	0.00
3	T	3-Chloro-1-propene	50.0000	52.7060	-5.4	100	0.00
4	T	2-Chloro-1,3-butadiene	50.0000	52.2609	-4.5	100	0.00
5	T	Ethyl Acetate	50.0000	50.7913	-1.6	100	0.00
6	T	Methacrylonitrile	50.0000	52.0523	-4.1	100	0.00
7	T	Isobutyl Alcohol	100.0000	97.9929	2.0	100	0.00
8	T	1-Butanol	-1.0000	0.0000	0.0	0	0.02
9	T	Methyl methacrylate	50.0000	51.4592	-2.9	100	0.00
10	T	2-Nitropropane	50.0000	46.7858	6.4	100	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	50.0000	48.9579	2.1	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412322.D A9FOOWT.M Thu May 19 09:02:32 2016 Page 1

Data File : C:\MSDchem\2\data\051716\8M412323.D Vial: 5
Acq On : 17 May 2016 10:44 Operator: TMB
Sample : WG569079-03 20ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 11:06:40 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

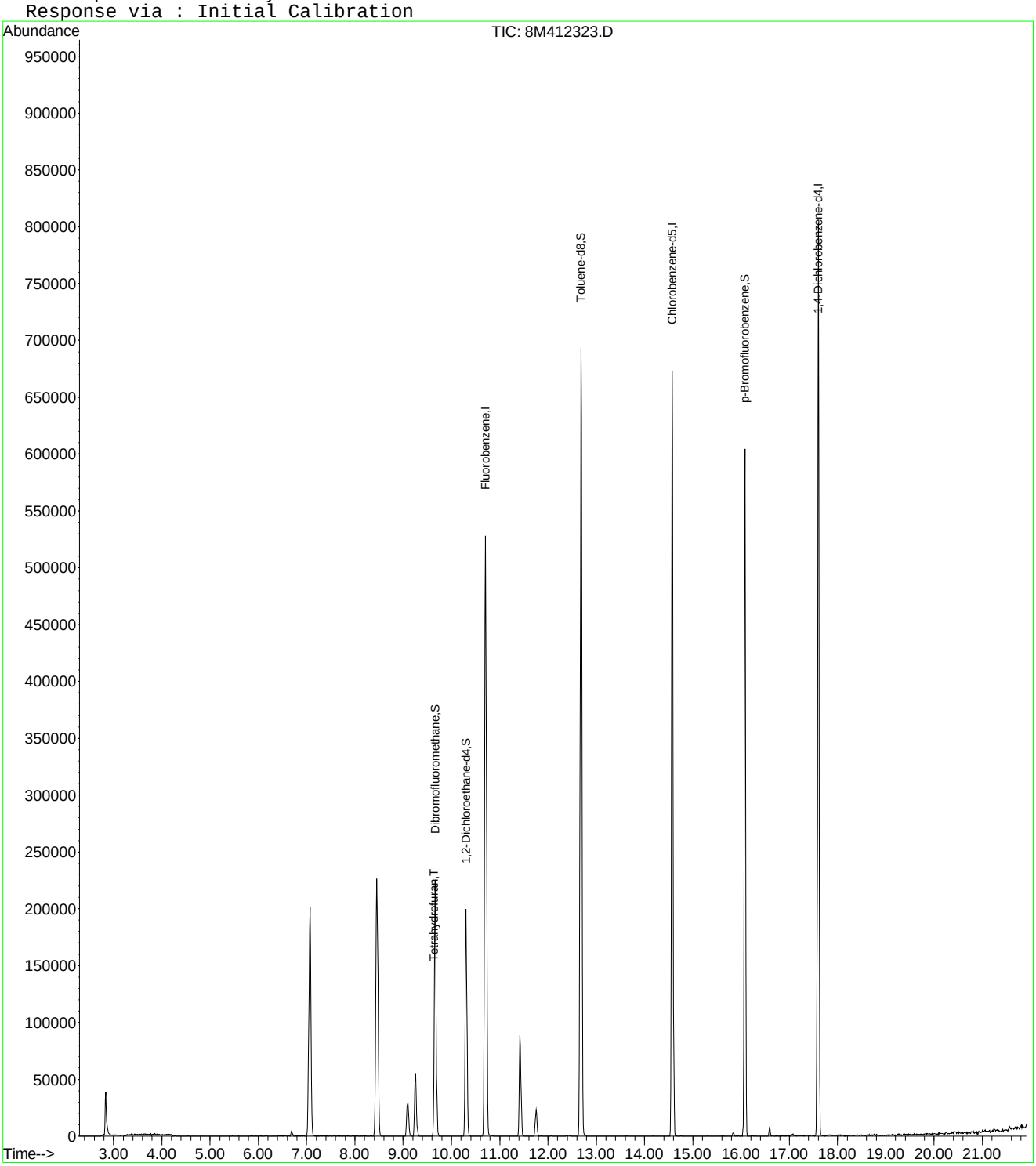
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	652985	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.57	117	476539	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	256082	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.66	111	185020	26.3720 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 105.48%		
43) 1,2-Dichloroethane-d4	10.30	65	211713	28.1434 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 112.56%		
58) Toluene-d8	12.68	98	652708	26.1713 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.68%		
80) p-Bromofluorobenzene	16.08	95	270394	25.5002 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.00%		
Target Compounds					Qvalue
36) Tetrahydrofuran	9.64	42	930	1.3081 ug/L #	24

(#) = qualifier out of range (m) = manual integration
8M412323.D 8260WT.M Tue May 17 11:06:42 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\051716\8M412323.D Vial: 5
Acq On : 17 May 2016 10:44 Operator: TMB
Sample : WG569079-03 20ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 11:06 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration



8M412323.D 8260WT.M Tue May 17 11:06:43 2016 Page 2

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412323.D Vial: 5
Acq On : 17 May 2016 10:44 Operator: TMB
Sample : WG569079-03 20ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:01:25 2016 Quant Results File: A9FOOWT.RES

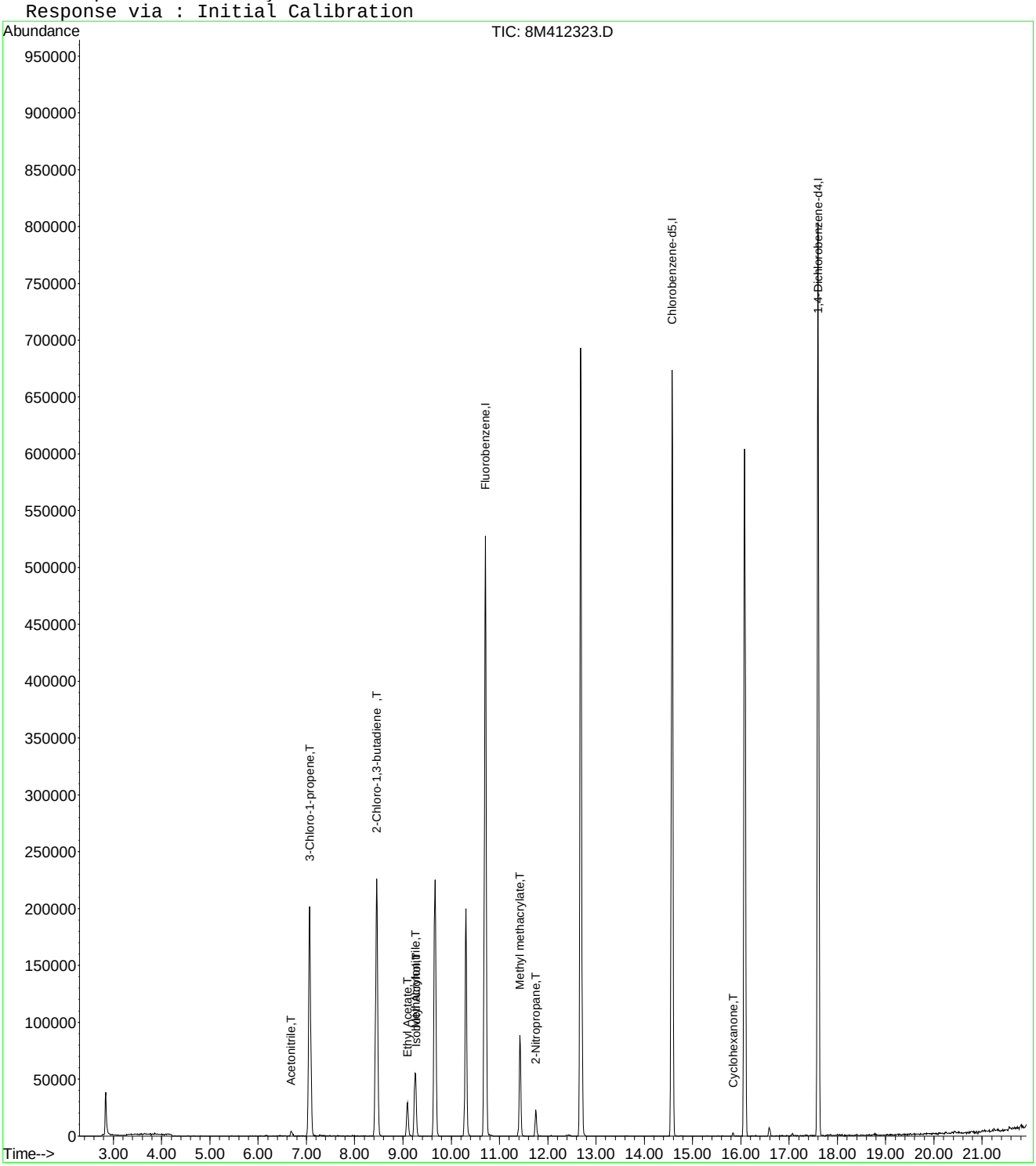
Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	652985	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.57	117	476539	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	256082	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.69	41	4873	19.3416	ug/L		80
3) 3-Chloro-1-propene	7.07	41	172467	20.7847	ug/L		83
4) 2-Chloro-1,3-butadiene	8.45	53	219296	20.9015	ug/L		87
5) Ethyl Acetate	9.09	43	50385	20.1659	ug/L		100
6) Methacrylonitrile	9.26	67	28119	20.4992	ug/L	#	63
7) Isobutyl Alcohol	9.27	43	2774	33.2395	ug/L	#	8
9) Methyl methacrylate	11.42	41	55309	20.5176	ug/L		73
10) 2-Nitropropane	11.75	43	21584	18.5202	ug/L		99
13) Cyclohexanone	15.84	55	2230	21.2913	ug/L		87

(#) = qualifier out of range (m) = manual integration
8M412323.D A9FOOWT.M Thu May 19 09:01:26 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412323.D Vial: 5
Acq On : 17 May 2016 10:44 Operator: TMB
Sample : WG569079-03 20ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:00 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412323.D Vial: 5
Acq On : 17 May 2016 10:44 Operator: TMB
Sample : WG569079-04 20ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:22:33 2016 Quant Results File: A9FOOWT.RES

Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

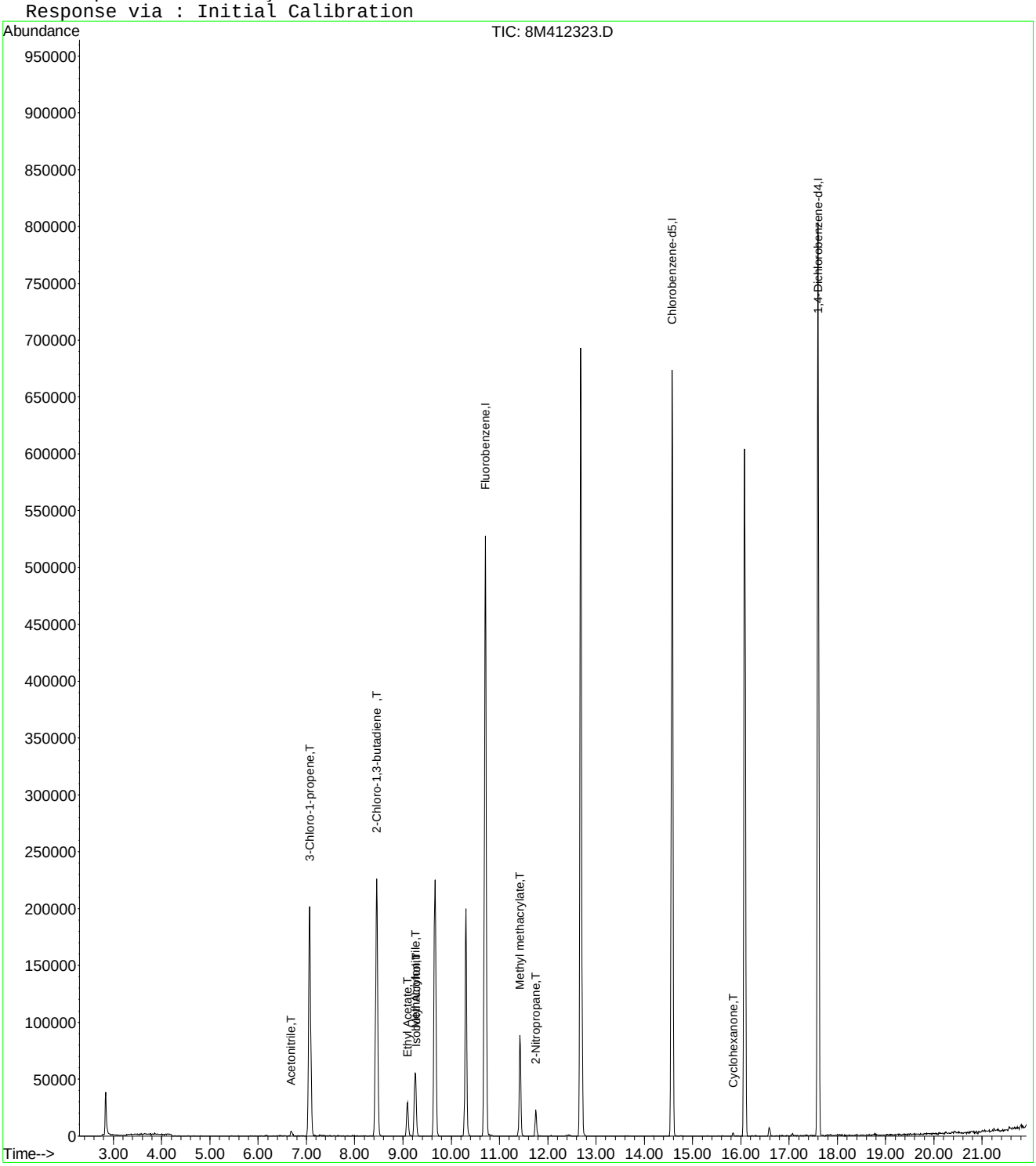
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	652985	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.57	117	476539	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	256082	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.69	41	4873	19.3416	ug/L		80
3) 3-Chloro-1-propene	7.07	41	172467	20.7847	ug/L		83
4) 2-Chloro-1,3-butadiene	8.45	53	219296	20.9015	ug/L		87
5) Ethyl Acetate	9.09	43	50385	20.1659	ug/L		100
6) Methacrylonitrile	9.26	67	28119	20.4992	ug/L	#	63
7) Isobutyl Alcohol	9.27	43	2774	33.2395	ug/L	#	8
9) Methyl methacrylate	11.42	41	55309	20.5176	ug/L		73
10) 2-Nitropropane	11.75	43	21584	18.5202	ug/L		99
13) Cyclohexanone	15.84	55	2230	21.2913	ug/L		87

(#) = qualifier out of range (m) = manual integration
8M412323.D A9FOOWT.M Thu May 19 09:22:33 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412323.D Vial: 5
Acq On : 17 May 2016 10:44 Operator: TMB
Sample : WG569079-04 20ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:21 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412323.D Vial: 5
Acq On : 17 May 2016 10:44 Operator: TMB
Sample : WG569079-03 20ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	20.0000	19.3416	3.3	100	0.00
3	T	3-Chloro-1-propene	20.0000	20.7847	-3.9	100	0.00
4	T	2-Chloro-1,3-butadiene	20.0000	20.9015	-4.5	100	0.00
5	T	Ethyl Acetate	20.0000	20.1659	-0.8	100	0.00
6	T	Methacrylonitrile	20.0000	20.4992	-2.5	100	0.00
7	T	Isobutyl Alcohol	-1.0000	33.2395	0.0	0	0.00
8	T	1-Butanol	-1.0000	0.0000	0.0	0	-10.18#
9	T	Methyl methacrylate	20.0000	20.5176	-2.6	100	0.00
10	T	2-Nitropropane	20.0000	18.5203	7.4	100	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	20.0000	21.2913	-6.5	100	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412323.D A9FOOWT.M Thu May 19 09:02:17 2016 Page 1

Data File : C:\MSDchem\2\data\051716\8M412324.D Vial: 6
Acq On : 17 May 2016 11:13 Operator: TMB
Sample : WG569079-04 5ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 11:35:51 2016 Quant Results File: 8260WT.RES

Quant Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

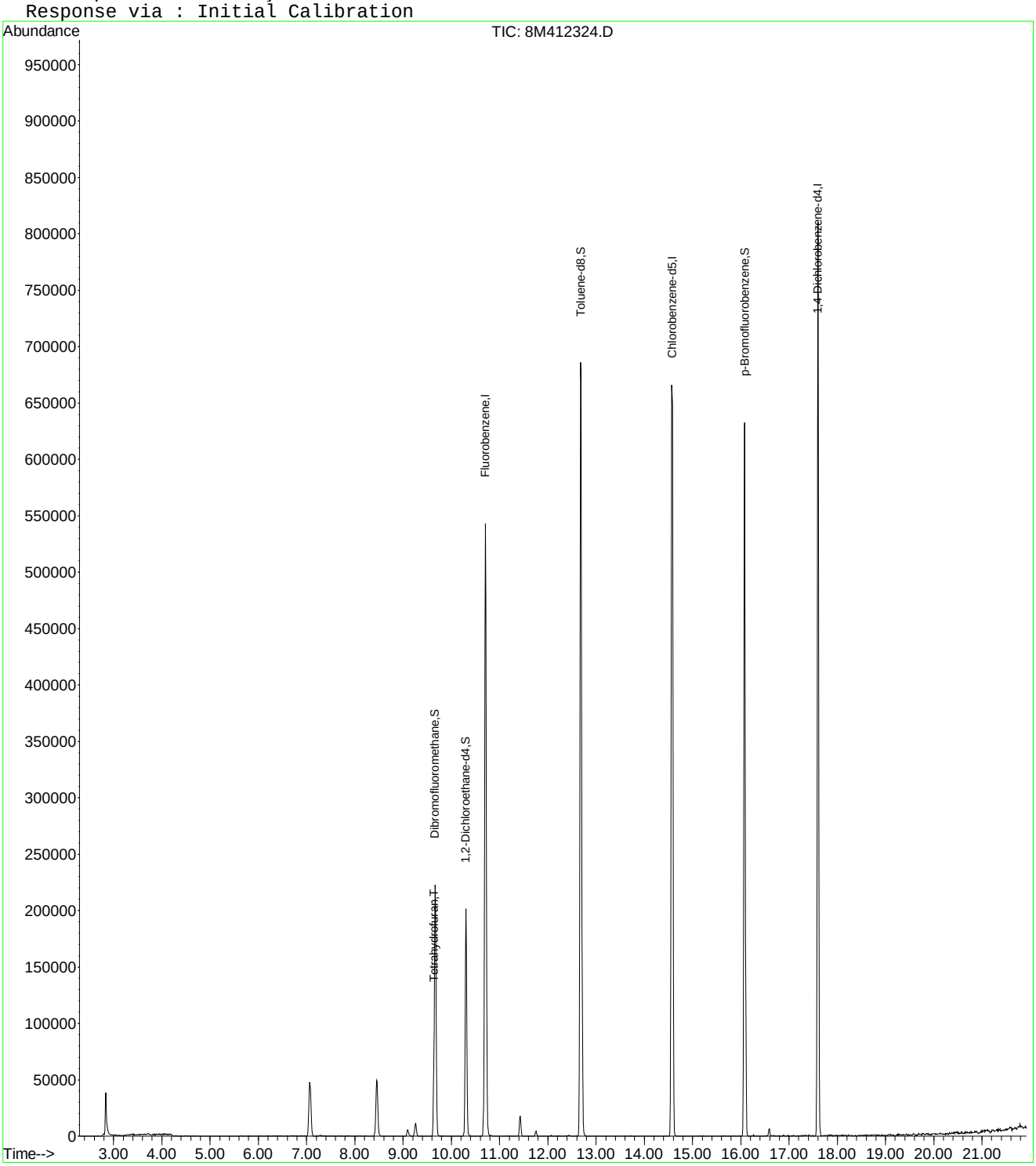
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	665645	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.58	117	483812	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	257678	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.66	111	190743	26.6707	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.68%			
43) 1,2-Dichloroethane-d4	10.30	65	210024	27.3879	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 109.56%			
58) Toluene-d8	12.68	98	671492	26.5197	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 106.08%			
80) p-Bromofluorobenzene	16.08	95	273294	25.6140	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 102.44%			
Target Compounds						Qvalue
36) Tetrahydrofuran	9.64	42	714	0.9852	ug/L #	48

(#) = qualifier out of range (m) = manual integration
8M412324.D 8260WT.M Tue May 17 11:35:53 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\2\data\051716\8M412324.D Vial: 6
Acq On : 17 May 2016 11:13 Operator: TMB
Sample : WG569079-04 5ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 11:35 2016 Quant Results File: 8260WT.RES

Method : C:\MSDCHEM\2\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412324.D Vial: 6
Acq On : 17 May 2016 11:13 Operator: TMB
Sample : WG569079-04 5ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:01:26 2016 Quant Results File: A9FOOWT.RES

Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

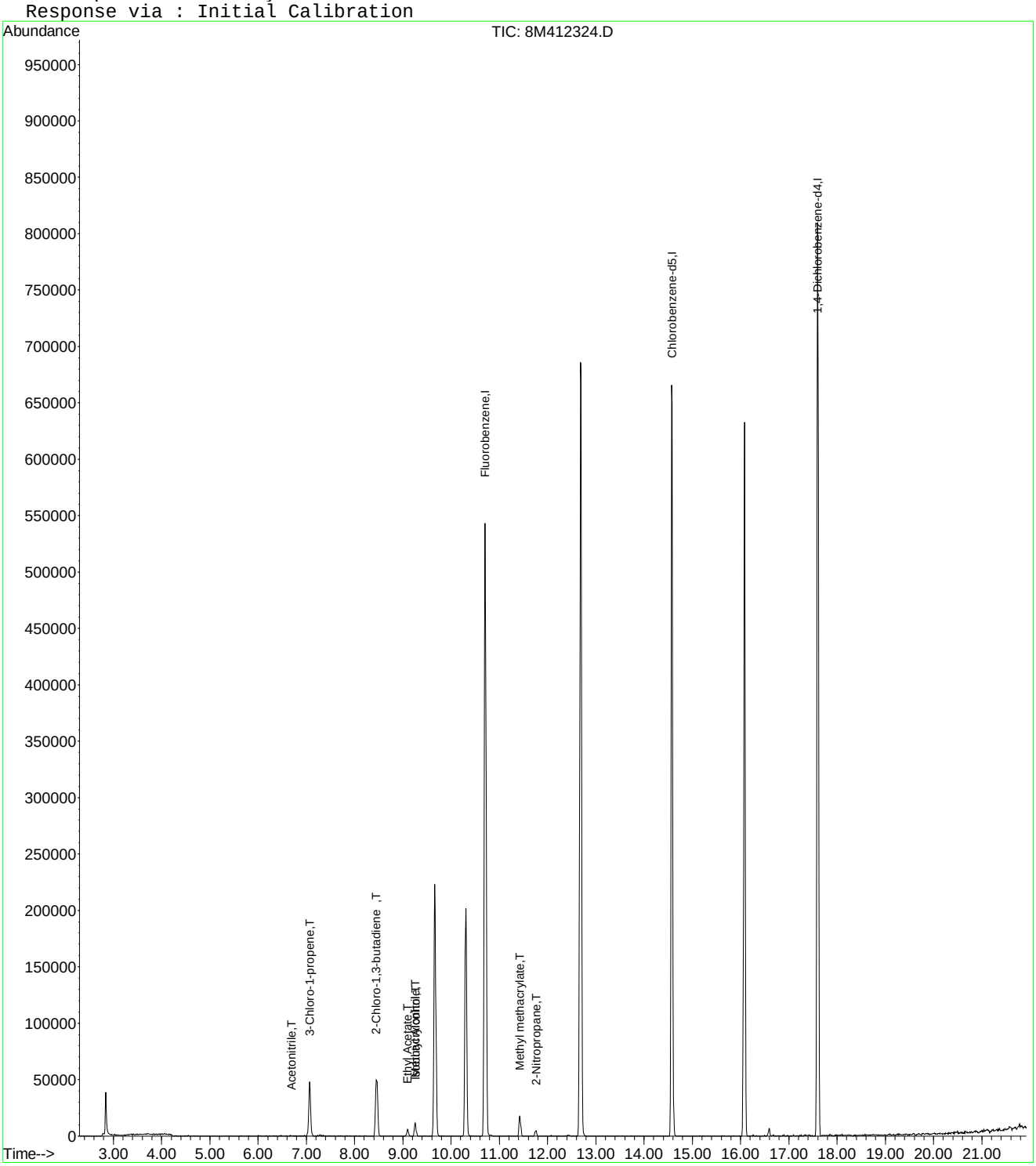
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	665645	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.58	117	483812	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	257678	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.70	41	405	1.5769	ug/L	#	23
3) 3-Chloro-1-propene	7.07	41	40699	4.8115	ug/L		84
4) 2-Chloro-1,3-butadiene	8.45	53	48973	4.5789	ug/L		81
5) Ethyl Acetate	9.09	43	10675	4.1913	ug/L		95
6) Methacrylonitrile	9.26	67	5417	3.8740	ug/L	#	72
7) Isobutyl Alcohol	9.27	43	441	5.1838	ug/L	#	8
9) Methyl methacrylate	11.43	41	11811	4.2981	ug/L		65
10) 2-Nitropropane	11.76	43	4170	3.5100	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M412324.D A9FOOWT.M Thu May 19 09:01:27 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412324.D Vial: 6
Acq On : 17 May 2016 11:13 Operator: TMB
Sample : WG569079-04 5ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:00 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412324.D Vial: 6
Acq On : 17 May 2016 11:13 Operator: TMB
Sample : WG569079-05 5ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:22:43 2016 Quant Results File: A9FOOWT.RES

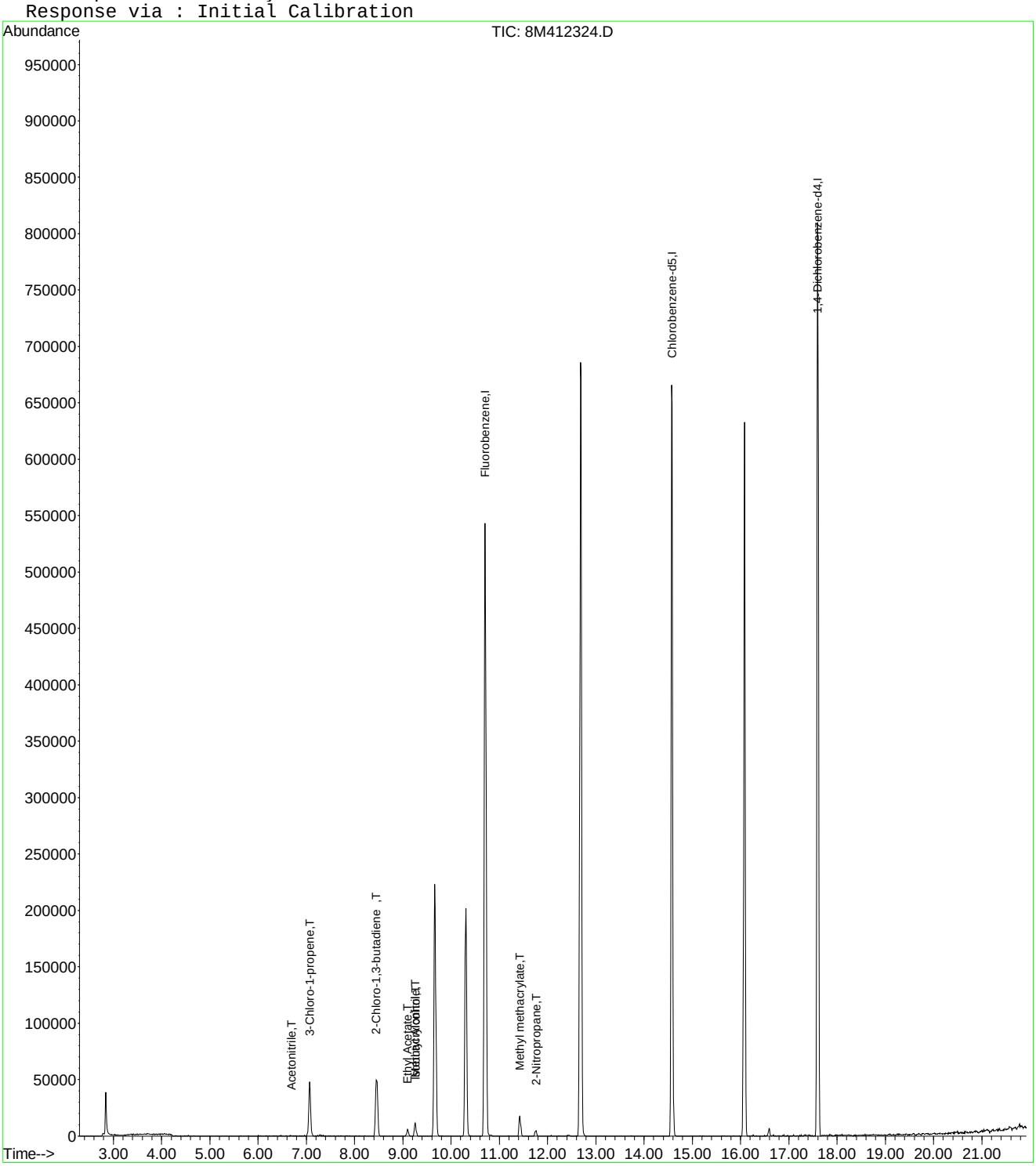
Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	665645	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.58	117	483812	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	257678	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.70	41	405	1.5769	ug/L	#	23
3) 3-Chloro-1-propene	7.07	41	40699	4.8115	ug/L		84
4) 2-Chloro-1,3-butadiene	8.45	53	48973	4.5789	ug/L		81
5) Ethyl Acetate	9.09	43	10675	4.1913	ug/L		95
6) Methacrylonitrile	9.26	67	5417	3.8740	ug/L	#	72
7) Isobutyl Alcohol	9.27	43	441	5.1838	ug/L	#	8
9) Methyl methacrylate	11.43	41	11811	4.2981	ug/L		65
10) 2-Nitropropane	11.76	43	4170	3.5100	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M412324.D A9FOOWT.M Thu May 19 09:22:43 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412324.D Vial: 6
Acq On : 17 May 2016 11:13 Operator: TMB
Sample : WG569079-05 5ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:21 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412324.D Vial: 6
Acq On : 17 May 2016 11:13 Operator: TMB
Sample : WG569079-04 5ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	100	0.00
2	T	Acetonitrile	-1.0000	1.5769	0.0	0	0.00
3	T	3-Chloro-1-propene	5.0000	4.8115	3.8	100	0.00
4	T	2-Chloro-1,3-butadiene	5.0000	4.5789	8.4	100	0.00
5	T	Ethyl Acetate	5.0000	4.1913	16.2	100	0.00
6	T	Methacrylonitrile	5.0000	3.8740	22.5	100	0.00
7	T	Isobutyl Alcohol	-1.0000	5.1838	0.0	0	0.00
8	T	1-Butanol	-1.0000	0.0000	0.0	0	-10.18#
9	T	Methyl methacrylate	5.0000	4.2981	14.0	100	0.00
10	T	2-Nitropropane	-1.0000	3.5100	0.0	0	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	100	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	100	0.00
13	T	Cyclohexanone	-1.0000	0.0000	0.0	0	-15.84#

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412324.D A9FOOWT.M Thu May 19 09:02:03 2016 Page 1

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412325.D Vial: 7
Acq On : 17 May 2016 11:42 Operator: TMB
Sample : WG569079-06 200ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:01:27 2016 Quant Results File: A9FOOWT.RES

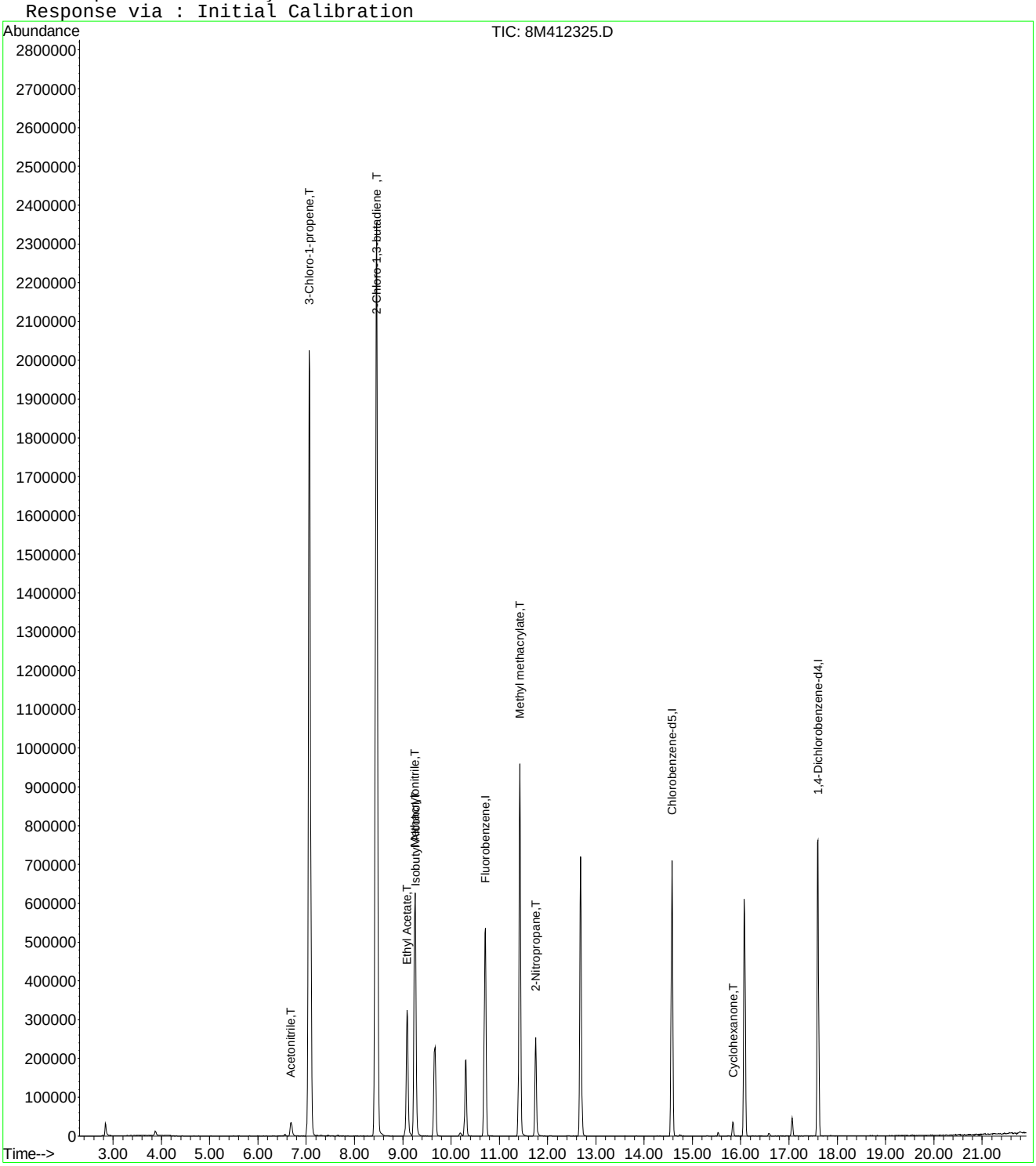
Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	682012	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.58	117	491515	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	261877	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.68	41	52022	197.6946	ug/L		97
3) 3-Chloro-1-propene	7.06	41	1768403	204.0468	ug/L		83
4) 2-Chloro-1,3-butadiene	8.46	53	2283706	208.4003	ug/L		87
5) Ethyl Acetate	9.09	43	537585	206.0040	ug/L		94
6) Methacrylonitrile	9.25	67	297408	207.5869	ug/L	#	63
7) Isobutyl Alcohol	9.26	43	34441	395.1256	ug/L		95
9) Methyl methacrylate	11.42	41	577612	205.1526	ug/L		72
10) 2-Nitropropane	11.75	43	248395	204.0652	ug/L		95
13) Cyclohexanone	15.85	55	19752	184.4122	ug/L	#	59

(#) = qualifier out of range (m) = manual integration
8M412325.D A9FOOWT.M Thu May 19 09:01:28 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412325.D Vial: 7
Acq On : 17 May 2016 11:42 Operator: TMB
Sample : WG569079-06 200ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:00 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412326.D Vial: 8
Acq On : 17 May 2016 12:40 Operator: TMB
Sample : WG569079-07 300ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:01:29 2016 Quant Results File: A9FOOWT.RES

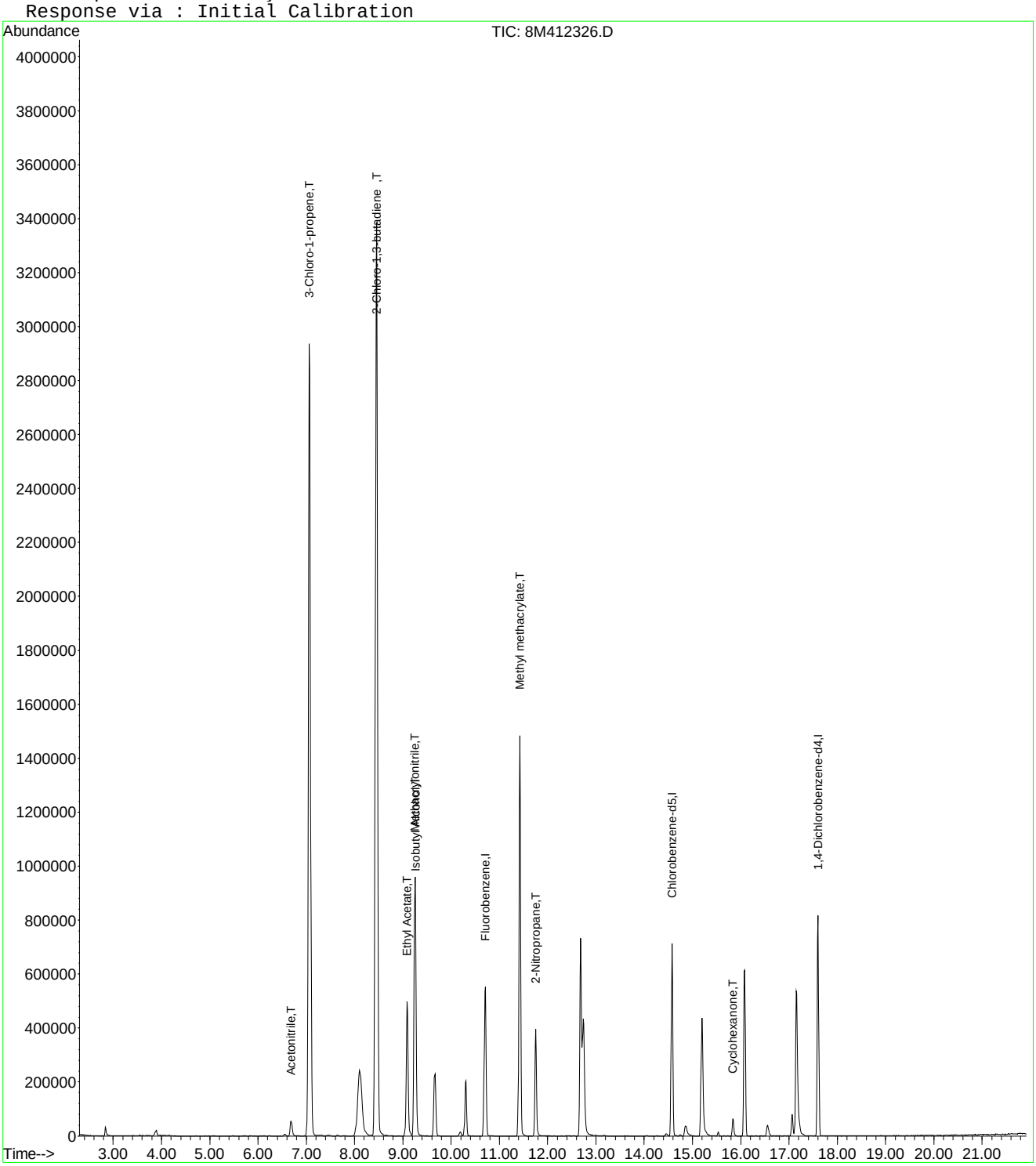
Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	694903	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.57	117	496643	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	267309	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.69	41	81471	303.8636	ug/L		98
3) 3-Chloro-1-propene	7.06	41	2563559	290.3084	ug/L		83
4) 2-Chloro-1,3-butadiene	8.46	53	3270971	292.9562	ug/L		86
5) Ethyl Acetate	9.09	43	821184	308.8424	ug/L		95
6) Methacrylonitrile	9.25	67	451708	309.4374	ug/L	#	62
7) Isobutyl Alcohol	9.26	43	55071	620.0836	ug/L		94
9) Methyl methacrylate	11.42	41	874430	304.8132	ug/L		70
10) 2-Nitropropane	11.75	43	392965	316.8456	ug/L		94
13) Cyclohexanone	15.84	55	33523	306.6233	ug/L	#	61

(#) = qualifier out of range (m) = manual integration
8M412326.D A9FOOWT.M Thu May 19 09:01:29 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412326.D Vial: 8
Acq On : 17 May 2016 12:40 Operator: TMB
Sample : WG569079-07 300ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:00 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412327.D Vial: 9
Acq On : 17 May 2016 13:10 Operator: TMB
Sample : WG569079-08 400ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:01:30 2016 Quant Results File: A9FOOWT.RES

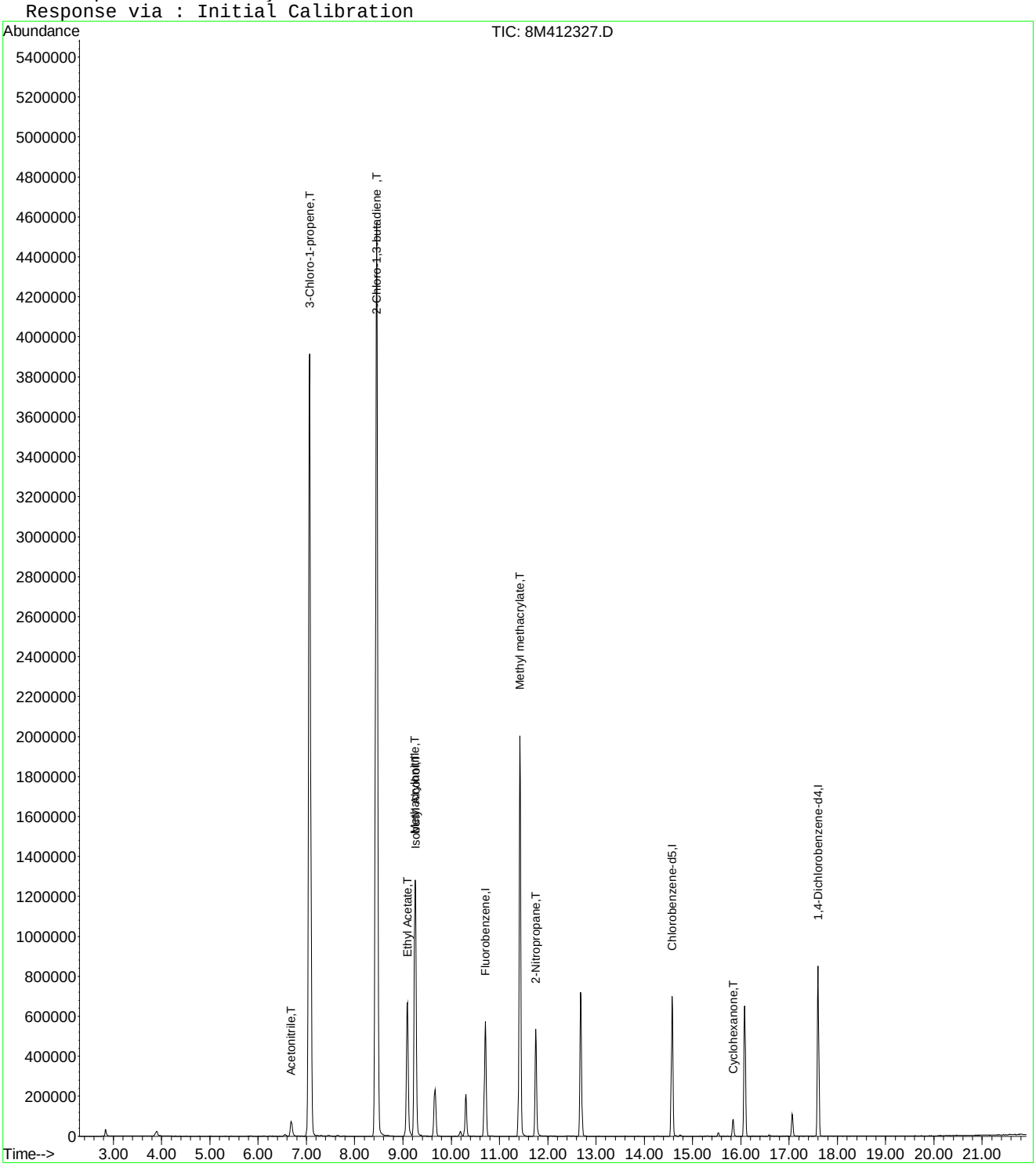
Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	700514	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.57	117	502552	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	270883	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.69	41	110761	409.7980	ug/L		97
3) 3-Chloro-1-propene	7.07	41	3406131	382.6353	ug/L		82
4) 2-Chloro-1,3-butadiene	8.45	53	4356691	387.0705	ug/L		85
5) Ethyl Acetate	9.09	43	1116818	416.6642	ug/L		94
6) Methacrylonitrile	9.25	67	615482	418.2517	ug/L	#	62
7) Isobutyl Alcohol	9.26	43	75472	842.9862	ug/L		97
9) Methyl methacrylate	11.42	41	1199317	414.7153	ug/L		71
10) 2-Nitropropane	11.75	43	538580	430.7760	ug/L		94
13) Cyclohexanone	15.84	55	45874	414.0575	ug/L	#	55

(#) = qualifier out of range (m) = manual integration
8M412327.D A9FOOWT.M Thu May 19 09:01:31 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412327.D Vial: 9
Acq On : 17 May 2016 13:10 Operator: TMB
Sample : WG569079-08 400ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:00 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412328.D Vial: 10
Acq On : 17 May 2016 13:39 Operator: TMB
Sample : WG569079-09 500ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:01:31 2016 Quant Results File: A9FOOWT.RES

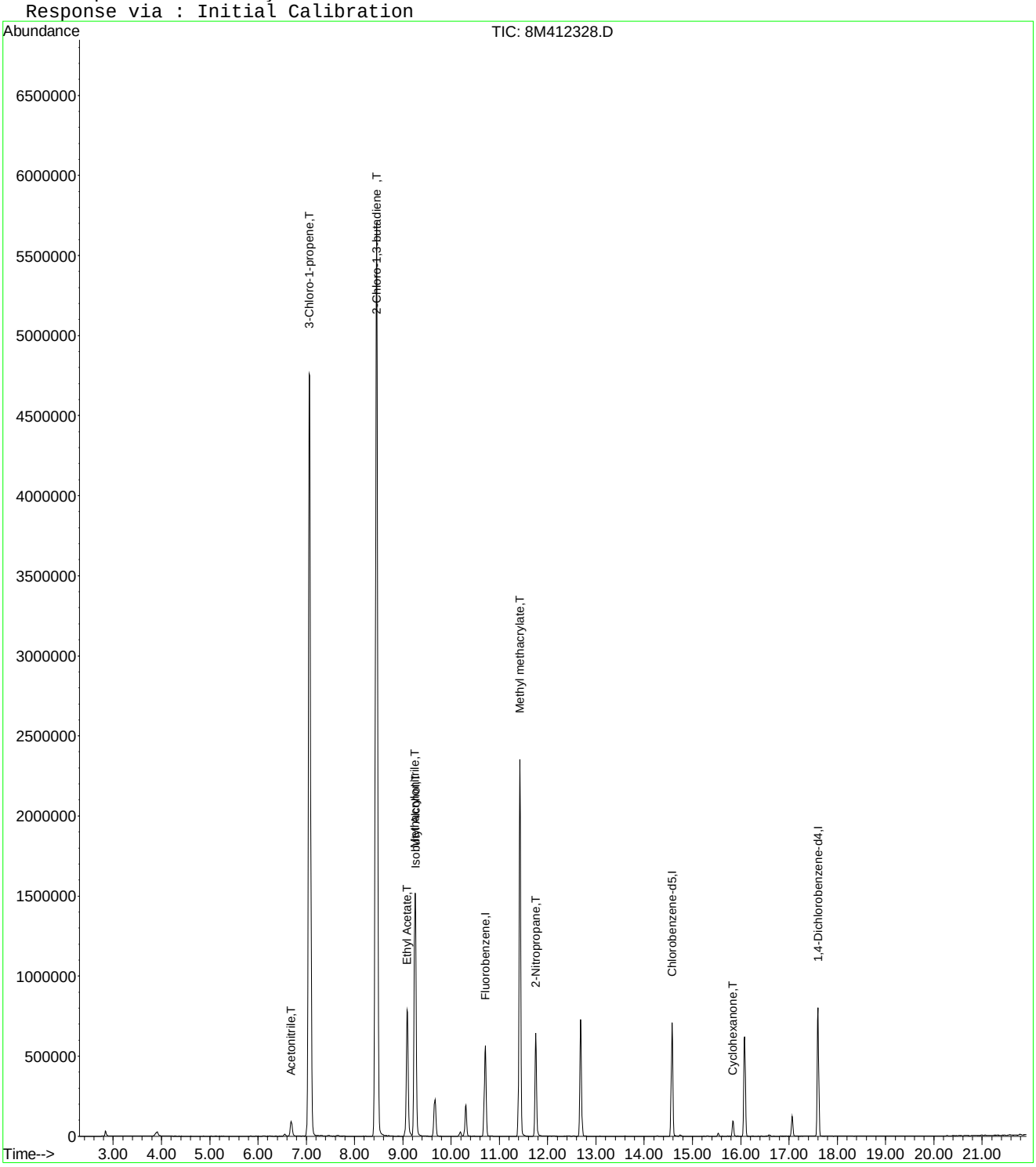
Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	695694	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.57	117	495257	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	266442	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.69	41	132245	492.6753	ug/L		99
3) 3-Chloro-1-propene	7.06	41	4228273	478.2834	ug/L		82
4) 2-Chloro-1,3-butadiene	8.46	53	5390856	482.2693	ug/L		85
5) Ethyl Acetate	9.09	43	1321922	496.6017	ug/L		95
6) Methacrylonitrile	9.25	67	729852	499.4083	ug/L	#	61
7) Isobutyl Alcohol	9.26	43	85200	958.2367	ug/L		96
9) Methyl methacrylate	11.42	41	1416438	493.1877	ug/L		72
10) 2-Nitropropane	11.75	43	637335	513.2956	ug/L		93
13) Cyclohexanone	15.84	55	52070	477.8160	ug/L	#	61

(#) = qualifier out of range (m) = manual integration
8M412328.D A9FOOWT.M Thu May 19 09:01:32 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412328.D Vial: 10
Acq On : 17 May 2016 13:39 Operator: TMB
Sample : WG569079-09 500ug/L A9/FOO STD 8260 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:00 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412331.D Vial: 13
Acq On : 17 May 2016 15:06 Operator: TMB
Sample : WG569079-10 100ug/L ALT SRC STD 8260 Inst : HPMS8
Misc : 1,1 STD75801 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 09:01:32 2016 Quant Results File: A9FOOWT.RES

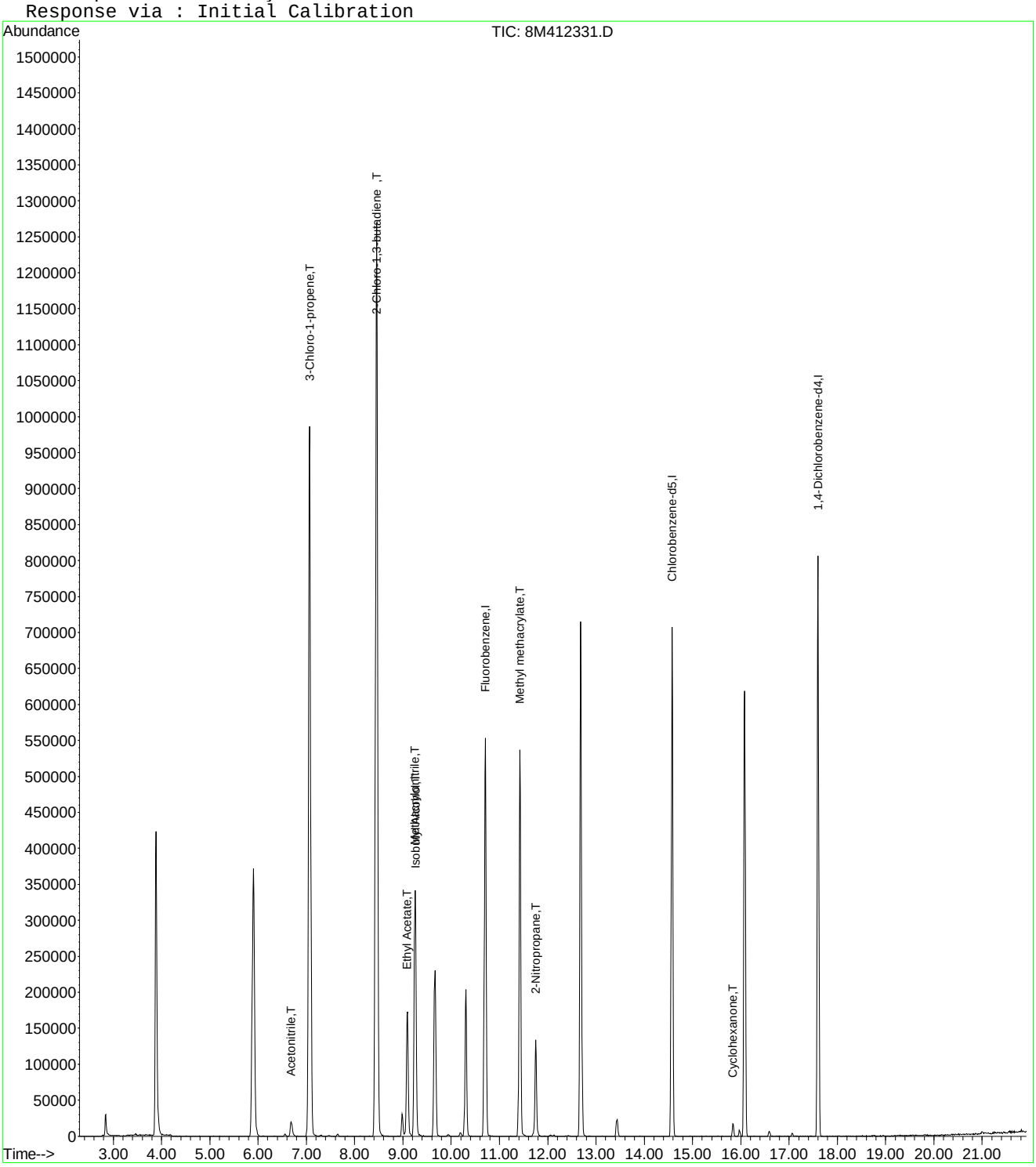
Quant Method : K:\ORGANICS\V...\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Fluorobenzene	10.71	96	676765	25.00	ug/L		0.00
11) Chlorobenzene-d5	14.57	117	486447	25.00	ug/L		0.00
12) 1,4-Dichlorobenzene-d4	17.60	152	263036	25.00	ug/L		0.00
Target Compounds							Qvalue
2) Acetonitrile	6.69	41	29876	114.4154	ug/L		97
3) 3-Chloro-1-propene	7.07	41	858035	99.7718	ug/L		83
4) 2-Chloro-1,3-butadiene	8.45	53	1224194	112.5803	ug/L		87
5) Ethyl Acetate	9.09	43	295545	114.1317	ug/L		96
6) Methacrylonitrile	9.25	67	161574	113.6509	ug/L	#	63
7) Isobutyl Alcohol	9.26	43	19948	230.6285	ug/L		94
9) Methyl methacrylate	11.42	41	326465	116.8508	ug/L		72
10) 2-Nitropropane	11.75	43	131261	108.6716	ug/L		94
13) Cyclohexanone	15.83	55	10459	97.2189	ug/L	#	74

(#) = qualifier out of range (m) = manual integration
8M412331.D A9FOOWT.M Thu May 19 09:01:33 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412331.D Vial: 13
Acq On : 17 May 2016 15:06 Operator: TMB
Sample : WG569079-10 100ug/L ALT SRC STD 8260 Inst : HPMS8
Misc : 1,1 STD75801 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 19 9:00 2016 Quant Results File: A9FOOWT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\051716\8M412331.D Vial: 13
Acq On : 17 May 2016 15:06 Operator: TMB
Sample : WG569079-10 100ug/L ALT SRC STD 8260 Inst : HPMS8
Misc : 1,1 STD75801 Multiplr: 1.00
MS Integration Params: rteint.p

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\A9FOOWT.M (RTE Integrator)
Title : A9-FOO Water SOP:MSV01 05-17-16 HPMS8
Last Update : Thu May 19 08:54:31 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 1% Max. R.T. Dev 0.50min
Max. RRF Dev : 75% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	95	0.00
2	T	Acetonitrile	100.0000	114.4154	-14.4	109	0.00
3	T	3-Chloro-1-propene	100.0000	99.7718	0.2	91	0.00
4	T	2-Chloro-1,3-butadiene	100.0000	112.5803	-12.6	103	0.00
5	T	Ethyl Acetate	100.0000	114.1317	-14.1	104	0.00
6	T	Methacrylonitrile	100.0000	113.6509	-13.7	104	0.00
7	T	Isobutyl Alcohol	200.0000	230.6285	-15.3	111	0.00
8	T	1-Butanol	-1.0000	0.0000	0.0	0	0.01
9	T	Methyl methacrylate	100.0000	116.8508	-16.9	109	0.00
10	T	2-Nitropropane	100.0000	108.6716	-8.7	108	0.00
11	I	Chlorobenzene-d5	25.0000	25.0000	0.0	96	0.00
12	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	96	0.00
13	T	Cyclohexanone	100.0000	97.2189	2.8	92	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412331.D A9FOOWT.M Thu May 19 09:03:22 2016 Page 1

Data File : C:\MSDchem\1\data\052216\6M139518.D Vial: 3
Acq On : 22 May 2016 13:23 Operator: FJB
Sample : WG569795-02 50ug/L CCV 8260 Inst : HPMS6
Misc : 1,1 STD76214 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 13:47:25 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.56	96	691829	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.07	117	511039	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.64	152	285672	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.39	111	182912	25.1859	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 100.76%			
43) 1,2-Dichloroethane-d4	11.11	65	191540	23.6794	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 94.72%			
58) Toluene-d8	13.85	98	615964	24.4913	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 97.96%			
80) p-Bromofluorobenzene	17.84	95	255336	24.1125	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 96.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.44	85	641813	58.9080	ug/L	99
3) Chloromethane	3.92	50	699548	46.8191	ug/L	100
4) Vinyl Chloride	4.16	62	506362	52.7016	ug/L	99
5) 1,3-Butadiene	4.20	54	63783	63.8080	ug/L	99
6) Bromomethane	5.08	94	247741	45.6104	ug/L	98
7) Chloroethane	5.23	64	310794	50.6263	ug/L	98
8) Trichlorofluoromethane	5.73	101	690285	56.6228	ug/L	100
9) Diethyl ether	6.29	59	617582	95.7001	ug/L	99
10) Isoprene	6.32	67	296181	48.6565	ug/L	98
11) Acrolein	6.55	56	38169	39.3828	ug/L	95
12) 1,1,2-Trichloro-1,2,2-Trif	6.55	101	386216	55.4638	ug/L	99
13) Acetone	6.65	43	91922	43.6681	ug/L	99
14) 1,1-Dichloroethene	6.88	61	641599	50.8559	ug/L	97
15) Tert-Butyl Alcohol	7.01	59	104662	167.2301	ug/L	99
16) Dimethyl Sulfide	7.16	62	194417	47.2941	ug/L	98
17) Iodomethane	7.44	142	178753	49.0224	ug/L	99
18) Methyl acetate	7.45	43	255518	43.3422	ug/L	99
19) Methylene Chloride	7.72	84	378253	50.7608	ug/L	97
20) Carbon Disulfide	7.76	76	641810	49.1663	ug/L	100
21) Acrylonitrile	7.92	53	127568	49.4987	ug/L	99
22) Methyl Tert Butyl Ether	7.95	73	930396	48.4188	ug/L	100
23) trans-1,2-Dichloroethene	8.21	96	379391	52.5915	ug/L	97
24) n-Hexane	8.28	57	415445	54.5794	ug/L	98
25) Diisopropyl ether	8.66	45	2872660	97.3518	ug/L	100
26) Vinyl Acetate	8.86	43	666053	65.3534	ug/L	99
27) 1,1-Dichloroethane	8.89	63	732002	50.8933	ug/L	100
28) Ethyl-Tert-Butyl ether	9.31	59	2348722	95.7474	ug/L	99
29) 2-Butanone	9.51	43	140001	44.5916	ug/L	99
30) Propionitrile	9.63	54	80166	93.0198	ug/L	99
31) 2,2-Dichloropropane	9.74	77	576226	54.4523	ug/L	97
32) cis-1,2-Dichloroethene	9.83	96	407581	51.1451	ug/L	99
33) Chloroform	10.06	83	660088	50.1149	ug/L	99
34) 1-Bromopropane	10.20	122	58418	54.4172	ug/L	98
35) Bromochloromethane	10.32	130	235498	53.8726	ug/L	99
36) Tetrahydrofuran	10.35	42	186487	92.7476	ug/L	99
38) 1,1,1-Trichloroethane	10.65	97	600936	52.0627	ug/L	98
39) Cyclohexane	10.68	56	564703	48.8534	ug/L	99
40) 1,1-Dichloropropene	10.88	75	514499	51.3205	ug/L	97
41) Tert-Amyl-Methyl ether	11.00	73	1827587	95.6394	ug/L	99
42) Carbon Tetrachloride	11.04	117	556996	54.3377	ug/L	100

(#) = qualifier out of range (m) = manual integration
6M139518.D 8260WTR.M Sun May 22 13:47:25 2016 Page 1

Data File : C:\MSDchem\1\data\052216\6M139518.D Vial: 3
Acq On : 22 May 2016 13:23 Operator: FJB
Sample : WG569795-02 50ug/L CCV 8260 Inst : HPMS6
Misc : 1,1 STD76214 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 13:47:25 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

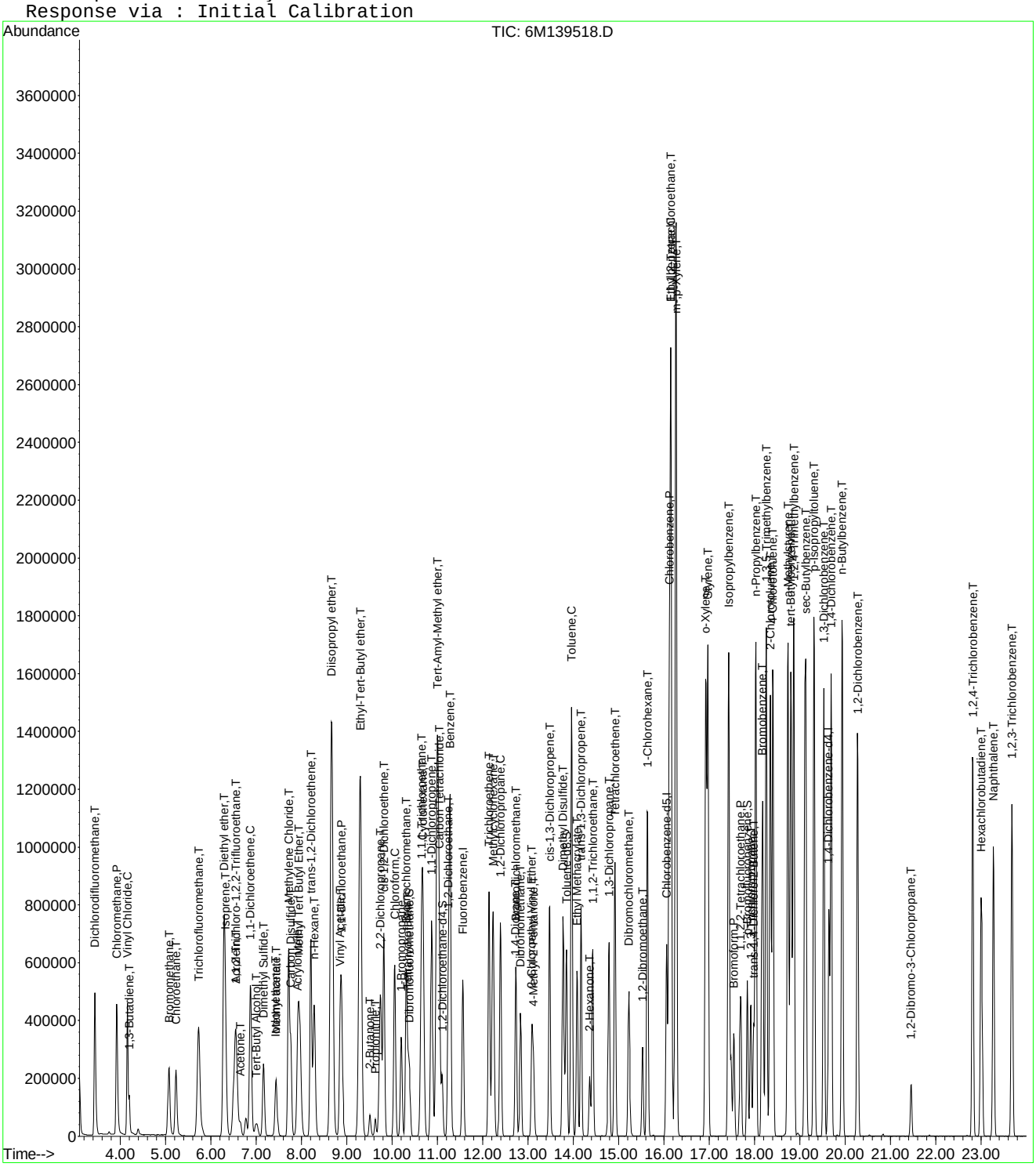
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	1,2-Dichloroethane	11.25	62	498302	49.2641 ug/L	100
46)	Benzene	11.29	78	1462281	50.6249 ug/L	99
47)	Trichloroethene	12.14	130	379410	50.2188 ug/L	98
48)	Methylcyclohexane	12.24	83	512854	51.5530 ug/L	98
49)	1,2-Dichloropropane	12.39	63	402727	49.6809 ug/L	100
50)	1,4-Dioxane	12.73	88	9199	163.4130 ug/L	96
51)	Bromodichloromethane	12.74	83	509129	51.6232 ug/L	99
52)	Dibromomethane	12.84	93	212712	52.0797 ug/L	99
53)	2-Chloroethyl Vinyl Ether	13.08	63	191920	48.1952 ug/L	100
54)	4-Methyl-2-Pentanone	13.12	58	112083	46.1264 ug/L	99
55)	cis-1,3-Dichloropropene	13.48	75	595991	51.5419 ug/L	100
56)	Dimethyl Disulfide	13.78	79	304303	47.8253 ug/L	99
59)	Toluene	13.96	91	1532146	50.5832 ug/L	100
60)	Ethyl Methacrylate	14.08	69	415114	47.1543 ug/L	98
62)	trans-1,3-Dichloropropene	14.18	75	531817	51.5809 ug/L	100
63)	1,1,2-Trichloroethane	14.43	97	287240	51.1787 ug/L	100
64)	2-Hexanone	14.36	43	213738	43.4796 ug/L	99
65)	1,3-Dichloropropane	14.79	76	497389	49.8408 ug/L	96
66)	Tetrachloroethene	14.92	166	402193	51.0262 ug/L	99
67)	Dibromochloromethane	15.23	129	374155	54.3837 ug/L	99
68)	1,2-Dibromoethane	15.53	107	282129	51.2524 ug/L	100
69)	1-Chlorohexane	15.65	91	519117	49.7702 ug/L	98
70)	Chlorobenzene	16.13	112	1014946	50.5711 ug/L	100
71)	1,1,1,2-Tetrachloroethane	16.16	131	383546	52.4542 ug/L	99
72)	Ethylbenzene	16.16	106	551718	50.8112 ug/L	98
73)	m-,p-Xylene	16.27	106	1336390	102.3634 ug/L	99
74)	o-Xylene	16.92	106	649232	50.1972 ug/L	100
75)	Styrene	16.97	104	1142249	51.1164 ug/L	100
76)	Bromoform	17.55	173	242365	54.9161 ug/L	100
77)	Isopropylbenzene	17.43	105	1689524	51.6627 ug/L	100
79)	1,1,2,2-Tetrachloroethane	17.69	83	358951	52.2885 ug/L	99
81)	1,2,3-Trichloropropane	17.92	110	101666	50.8184 ug/L	88
82)	trans-1,4-Dichloro-2-Buten	17.99	53	125681	51.8695 ug/L	93
83)	n-Propylbenzene	18.04	91	2054594	52.1333 ug/L	100
84)	Bromobenzene	18.18	156	454273	49.2902 ug/L	99
85)	1,3,5-Trimethylbenzene	18.26	105	1453255	51.0694 ug/L	100
86)	2-Chlorotoluene	18.35	91	1368178	52.2932 ug/L	100
87)	4-Chlorotoluene	18.40	91	1220049	48.7929 ug/L	100
88)	a-Methylstyrene	18.74	118	782213	49.5092 ug/L	100
89)	tert-Butylbenzene	18.80	134	321401	51.5412 ug/L	100
90)	1,2,4-Trimethylbenzene	18.87	105	1520419	52.1610 ug/L	99
91)	sec-Butylbenzene	19.13	105	1820788	52.9838 ug/L	100
92)	p-Isopropyltoluene	19.31	119	1574202	53.0156 ug/L	100
93)	1,3-Dichlorobenzene	19.54	146	890258	50.7810 ug/L	100
94)	1,4-Dichlorobenzene	19.69	146	885925	49.8345 ug/L	99
95)	n-Butylbenzene	19.94	91	1513421	53.5376 ug/L	100
96)	1,2-Dichlorobenzene	20.28	146	827819	49.8736 ug/L	100
97)	1,2-Dibromo-3-Chloropropan	21.46	75	63126	48.9479 ug/L	96
98)	1,2,4-Trichlorobenzene	22.83	180	599346	50.5256 ug/L	99
99)	Hexachlorobutadiene	23.01	225	260728	50.1265 ug/L	100
100)	Naphthalene	23.27	128	1175579	50.1841 ug/L	99
101)	1,2,3-Trichlorobenzene	23.68	180	545195	48.9078 ug/L	100

(#) = qualifier out of range (m) = manual integration
6M139518.D 8260WTR.M Sun May 22 13:47:25 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\052216\6M139518.D Vial: 3
Acq On : 22 May 2016 13:23 Operator: FJB
Sample : WG569795-02 50ug/L CCV 8260 Inst : HPMS6
Misc : 1,1 STD76214 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 22 13:47 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration



6M139518.D 8260WTR.M Sun May 22 13:47:26 2016 Page 3

Data File : C:\MSDCHEM\1\DATA\052216\6M139518.D Vial: 3
Acq On : 22 May 2016 13:23 Operator: FJB
Sample : WG569795-02 50ug/L CCV 8260 Inst : HPMS6
Misc : 1,1 STD76214 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.0000	1.0000	0.0	87	0.00
2	T	Dichlorodifluoromethane	0.3937	0.4638	-17.8	97	0.00
3	P	Chloromethane	0.5399	0.5056	6.4	85	0.00
4	C	Vinyl Chloride	0.3472	0.3660	-5.4	97	0.00
5	T	1,3-Butadiene	0.0409	0.0461	-12.8	117	0.00
6	T	Bromomethane	0.1963	0.1790	8.8	86	0.00
7	T	Chloroethane	0.2218	0.2246	-1.3	91	0.00
8	T	Trichlorofluoromethane	0.4405	0.4989	-13.2	96	0.00
9	T	Diethyl ether	0.2332	0.2232	4.3	87	0.00
10	T	Isoprene	0.2200	0.2141	2.7	88	0.00
11	T	Acrolein	0.0350	0.0276	21.2#	71	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.2516	0.2791	-10.9	99	0.00
13	T	Acetone	0.0812	0.0664	18.1	78	0.00
14	C	1,1-Dichloroethene	0.4559	0.4637	-1.7	92	0.00
15	T	Tert-Butyl Alcohol	0.0226	0.0189	16.4	72	0.00
16	T	Dimethyl Sulfide	0.1485	0.1405	5.4	83	0.00
17	T	Iodomethane	0.1090	0.1292	-18.6	81	0.00
18	T	Methyl acetate	0.2130	0.1847	13.3	78	0.00
19	T	Methylene Chloride	0.2693	0.2734	-1.5	91	0.00
20	T	Carbon Disulfide	0.4717	0.4638	1.7	89	0.00
21	T	Acrylonitrile	0.0931	0.0922	1.0	83	0.00
22	T	Methyl Tert Butyl Ether	0.6944	0.6724	3.2	85	0.00
23	T	trans-1,2-Dichloroethene	0.2607	0.2742	-5.2	93	0.00
24	T	n-Hexane	0.2751	0.3003	-9.2	98	0.00
25	T	Diisopropyl ether	1.0663	1.0381	2.6	85	0.00
26	T	Vinyl Acetate	0.3683	0.4814	-30.7#	123	0.00
27	P	1,1-Dichloroethane	0.5198	0.5290	-1.8	90	0.00
28	T	Ethyl-Tert-Butyl ether	0.8864	0.8487	4.3	84	0.00
29	T	2-Butanone	0.1135	0.1012	10.8	78	0.00
30	T	Propionitrile	0.0311	0.0290	7.0	78	0.00
31	T	2,2-Dichloropropane	0.3824	0.4164	-8.9	102	0.00
32	T	cis-1,2-Dichloroethene	0.2880	0.2946	-2.3	91	0.00
33	C	Chloroform	0.4760	0.4771	-0.2	91	0.00
34		1-Bromopropane	0.0388	0.0422	-8.8	91	0.00
35	T	Bromochloromethane	0.1580	0.1702	-7.7	91	0.00
36	T	Tetrahydrofuran	0.0788	0.0674	14.5	79	0.00
37	S	Dibromofluoromethane	0.2624	0.2644	-0.7	89	0.00
38	T	1,1,1-Trichloroethane	0.4171	0.4343	-4.1	92	0.00
39	T	Cyclohexane	0.4177	0.4081	2.3	89	0.00
40	T	1,1-Dichloropropene	0.3623	0.3718	-2.6	91	0.00
41	T	Tert-Amyl-Methyl ether	0.6905	0.6604	4.4	84	0.00
42	T	Carbon Tetrachloride	0.3704	0.4026	-8.7	95	0.00
43	S	1,2-Dichloroethane-d4	0.2923	0.2769	5.3	83	0.00
44		Heptane	0.0000	0.0000	0.0	80	-0.02
45	T	1,2-Dichloroethane	0.3655	0.3601	1.5	87	0.00
46	T	Benzene	1.0438	1.0568	-1.2	91	0.00
47	T	Trichloroethene	0.2730	0.2742	-0.4	89	0.00
48	T	Methylcyclohexane	0.3595	0.3706	-3.1	92	0.00
49	C	1,2-Dichloropropane	0.2929	0.2911	0.6	89	0.00
50	T	1,4-Dioxane	0.0020	0.0017	18.2	66	0.00
51	T	Bromodichloromethane	0.3564	0.3680	-3.2	89	0.00
52	T	Dibromomethane	0.1476	0.1537	-4.2	90	0.00
53	T	2-Chloroethyl Vinyl Ether	0.1439	0.1387	3.6	79	0.00
54	T	4-Methyl-2-Pentanone	0.0878	0.0810	7.8	77	0.00

(#) = Out of Range
6M139518.D 8260WTR.M Sun May 22 13:51:01 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\052216\6M139518.D Vial: 3
Acq On : 22 May 2016 13:23 Operator: FJB
Sample : WG569795-02 50ug/L CCV 8260 Inst : HPMS6
Misc : 1,1 STD76214 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	0.4179	0.4307	-3.1	90	0.00
56	T	Dimethyl Disulfide	0.2299	0.2199	4.3	84	0.00
57	I	Chlorobenzene-d5	1.0000	1.0000	0.0	88	0.00
58	S	Toluene-d8	1.2304	1.2053	2.0	88	0.00
59	C	Toluene	1.4818	1.4991	-1.2	91	0.00
60	T	Ethyl Methacrylate	0.4307	0.4062	5.7	84	0.00
61		Paraldehyde	0.0000	0.0000	0.0	92	0.00
62	T	trans-1,3-Dichloropropene	0.5044	0.5203	-3.2	90	0.00
63	T	1,1,2-Trichloroethane	0.2746	0.2810	-2.4	90	0.00
64	T	2-Hexanone	0.2405	0.2091	13.0	76	0.00
65	T	1,3-Dichloropropane	0.4882	0.4866	0.3	88	0.00
66	T	Tetrachloroethene	0.3856	0.3935	-2.1	92	0.00
67	T	Dibromochloromethane	0.3366	0.3661	-8.8	91	0.00
68	T	1,2-Dibromoethane	0.2693	0.2760	-2.5	88	0.00
69	T	1-Chlorohexane	0.5102	0.5079	0.5	92	0.00
70	P	Chlorobenzene	0.9818	0.9930	-1.1	90	0.00
71	T	1,1,1,2-Tetrachloroethane	0.3577	0.3753	-4.9	91	0.00
72	C	Ethylbenzene	0.5312	0.5398	-1.6	90	0.00
73	T	m-,p-Xylene	0.6387	0.6538	-2.4	91	0.00
74	T	o-Xylene	0.6327	0.6352	-0.4	90	0.00
75	T	Styrene	1.0932	1.1176	-2.2	89	0.00
76	P	Bromoform	0.2159	0.2371	-9.8	92	0.00
77	T	Isopropylbenzene	1.5998	1.6530	-3.3	91	0.00
78	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	87	0.00
79	P	1,1,2,2-Tetrachloroethane	0.6008	0.6283	-4.6	92	0.00
80	S	p-Bromofluorobenzene	0.9267	0.8938	3.6	86	0.00
81	T	1,2,3-Trichloropropane	0.1751	0.1779	-1.6	87	0.00
82	T	trans-1,4-Dichloro-2-Butene	0.2120	0.2200	-3.7	87	0.00
83	T	n-Propylbenzene	3.4489	3.5961	-4.3	92	0.00
84	T	Bromobenzene	0.8065	0.7951	1.4	90	0.00
85	T	1,3,5-Trimethylbenzene	2.4903	2.5436	-2.1	90	0.00
86	T	2-Chlorotoluene	2.2897	2.3947	-4.6	95	0.00
87	T	4-Chlorotoluene	2.1882	2.1354	2.4	87	0.00
88	T	a-Methylstyrene	1.3826	1.3691	1.0	87	0.00
89	T	tert-Butylbenzene	0.5457	0.5625	-3.1	92	0.00
90	T	1,2,4-Trimethylbenzene	2.5509	2.6611	-4.3	91	0.00
91	T	sec-Butylbenzene	3.0074	3.1869	-6.0	92	0.00
92	T	p-Isopropyltoluene	2.5985	2.7553	-6.0	91	0.00
93	T	1,3-Dichlorobenzene	1.5342	1.5582	-1.6	90	0.00
94	T	1,4-Dichlorobenzene	1.5558	1.5506	0.3	90	0.00
95	T	n-Butylbenzene	2.4739	2.6489	-7.1	93	0.00
96	T	1,2-Dichlorobenzene	1.4526	1.4489	0.3	89	0.00
97	T	1,2-Dibromo-3-Chloropropane	0.1129	0.1105	2.1	82	0.00
98	T	1,2,4-Trichlorobenzene	1.0381	1.0490	-1.1	89	0.00
99	T	Hexachlorobutadiene	0.4552	0.4563	-0.3	91	0.00
100	T	Naphthalene	2.0500	2.0576	-0.4	85	0.00
101	T	1,2,3-Trichlorobenzene	0.9755	0.9542	2.2	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M139518.D 8260WTR.M Sun May 22 13:51:01 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\052216\6M139518.D Vial: 3
Acq On : 22 May 2016 13:23 Operator: FJB
Sample : WG569795-02 50ug/L CCV 8260 Inst : HPMS6
Misc : 1,1 STD76214 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	87	0.00
2	T	Dichlorodifluoromethane	50.0000	58.9080	-17.8	97	0.00
3	P	Chloromethane	50.0000	46.8191	6.4	85	0.00
4	C	Vinyl Chloride	50.0000	52.7016	-5.4	97	0.00
5	T	1,3-Butadiene	50.0000	63.8080	-27.6#	117	0.00
6	T	Bromomethane	50.0000	45.6104	8.8	86	0.00
7	T	Chloroethane	50.0000	50.6263	-1.3	91	0.00
8	T	Trichlorofluoromethane	50.0000	56.6228	-13.2	96	0.00
9	T	Diethyl ether	100.0000	95.7001	4.3	87	0.00
10	T	Isoprene	50.0000	48.6565	2.7	88	0.00
11	T	Acrolein	50.0000	39.3828	21.2#	71	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	55.4638	-10.9	99	0.00
13	T	Acetone	50.0000	43.6681	12.7	78	0.00
14	C	1,1-Dichloroethene	50.0000	50.8559	-1.7	92	0.00
15	T	Tert-Butyl Alcohol	200.0000	167.2301	16.4	72	0.00
16	T	Dimethyl Sulfide	50.0000	47.2940	5.4	83	0.00
17	T	Iodomethane	50.0000	49.0224	2.0	81	0.00
18	T	Methyl acetate	50.0000	43.3422	13.3	78	0.00
19	T	Methylene Chloride	50.0000	50.7608	-1.5	91	0.00
20	T	Carbon Disulfide	50.0000	49.1663	1.7	89	0.00
21	T	Acrylonitrile	50.0000	49.4987	1.0	83	0.00
22	T	Methyl Tert Butyl Ether	50.0000	48.4188	3.2	85	0.00
23	T	trans-1,2-Dichloroethene	50.0000	52.5915	-5.2	93	0.00
24	T	n-Hexane	50.0000	54.5794	-9.2	98	0.00
25	T	Diisopropyl ether	100.0000	97.3518	2.6	85	0.00
26	T	Vinyl Acetate	50.0000	65.3534	-30.7#	123	0.00
27	P	1,1-Dichloroethane	50.0000	50.8933	-1.8	90	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	95.7474	4.3	84	0.00
29	T	2-Butanone	50.0000	44.5916	10.8	78	0.00
30	T	Propionitrile	100.0000	93.0198	7.0	78	0.00
31	T	2,2-Dichloropropane	50.0000	54.4523	-8.9	102	0.00
32	T	cis-1,2-Dichloroethene	50.0000	51.1451	-2.3	91	0.00
33	C	Chloroform	50.0000	50.1149	-0.2	91	0.00
34		1-Bromopropane	50.0000	54.4172	-8.8	91	0.00
35	T	Bromochloromethane	50.0000	53.8726	-7.7	91	0.00
36	T	Tetrahydrofuran	100.0000	92.7476	7.3	79	0.00
37	S	Dibromofluoromethane	25.0000	25.1859	-0.7	89	0.00
38	T	1,1,1-Trichloroethane	50.0000	52.0627	-4.1	92	0.00
39	T	Cyclohexane	50.0000	48.8534	2.3	89	0.00
40	T	1,1-Dichloropropene	50.0000	51.3205	-2.6	91	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	95.6394	4.4	84	0.00
42	T	Carbon Tetrachloride	50.0000	54.3377	-8.7	95	0.00
43	S	1,2-Dichloroethane-d4	25.0000	23.6793	5.3	83	0.00
44		Heptane	-1.0000	0.0000	0.0	80	-0.02
45	T	1,2-Dichloroethane	50.0000	49.2641	1.5	87	0.00
46	T	Benzene	50.0000	50.6249	-1.2	91	0.00
47	T	Trichloroethene	50.0000	50.2188	-0.4	89	0.00
48	T	Methylcyclohexane	50.0000	51.5530	-3.1	92	0.00
49	C	1,2-Dichloropropane	50.0000	49.6809	0.6	89	0.00
50	T	1,4-Dioxane	200.0000	163.4130	18.3	66	0.00
51	T	Bromodichloromethane	50.0000	51.6232	-3.2	89	0.00
52	T	Dibromomethane	50.0000	52.0797	-4.2	90	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	48.1952	3.6	79	0.00
54	T	4-Methyl-2-Pentanone	50.0000	46.1264	7.7	77	0.00

(#) = Out of Range
6M139518.D 8260WTR.M Sun May 22 13:50:59 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\052216\6M139518.D Vial: 3
Acq On : 22 May 2016 13:23 Operator: FJB
Sample : WG569795-02 50ug/L CCV 8260 Inst : HPMS6
Misc : 1,1 STD76214 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	50.0000	51.5419	-3.1	90	0.00
56	T	Dimethyl Disulfide	50.0000	47.8253	4.3	84	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	88	0.00
58	S	Toluene-d8	25.0000	24.4913	2.0	88	0.00
59	C	Toluene	50.0000	50.5832	-1.2	91	0.00
60	T	Ethyl Methacrylate	50.0000	47.1543	5.7	84	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	92	0.00
62	T	trans-1,3-Dichloropropene	50.0000	51.5809	-3.2	90	0.00
63	T	1,1,2-Trichloroethane	50.0000	51.1787	-2.4	90	0.00
64	T	2-Hexanone	50.0000	43.4796	13.0	76	0.00
65	T	1,3-Dichloropropane	50.0000	49.8408	0.3	88	0.00
66	T	Tetrachloroethene	50.0000	51.0262	-2.1	92	0.00
67	T	Dibromochloromethane	50.0000	54.3837	-8.8	91	0.00
68	T	1,2-Dibromoethane	50.0000	51.2524	-2.5	88	0.00
69	T	1-Chlorohexane	50.0000	49.7702	0.5	92	0.00
70	P	Chlorobenzene	50.0000	50.5711	-1.1	90	0.00
71	T	1,1,1,2-Tetrachloroethane	50.0000	52.4542	-4.9	91	0.00
72	C	Ethylbenzene	50.0000	50.8112	-1.6	90	0.00
73	T	m-,p-Xylene	100.0000	102.3634	-2.4	91	0.00
74	T	o-Xylene	50.0000	50.1972	-0.4	90	0.00
75	T	Styrene	50.0000	51.1164	-2.2	89	0.00
76	P	Bromoform	50.0000	54.9161	-9.8	92	0.00
77	T	Isopropylbenzene	50.0000	51.6627	-3.3	91	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	87	0.00
79	P	1,1,2,2-Tetrachloroethane	50.0000	52.2885	-4.6	92	0.00
80	S	p-Bromofluorobenzene	25.0000	24.1125	3.5	86	0.00
81	T	1,2,3-Trichloropropane	50.0000	50.8184	-1.6	87	0.00
82	T	trans-1,4-Dichloro-2-Butene	50.0000	51.8695	-3.7	87	0.00
83	T	n-Propylbenzene	50.0000	52.1333	-4.3	92	0.00
84	T	Bromobenzene	50.0000	49.2902	1.4	90	0.00
85	T	1,3,5-Trimethylbenzene	50.0000	51.0694	-2.1	90	0.00
86	T	2-Chlorotoluene	50.0000	52.2932	-4.6	95	0.00
87	T	4-Chlorotoluene	50.0000	48.7929	2.4	87	0.00
88	T	a-Methylstyrene	50.0000	49.5092	1.0	87	0.00
89	T	tert-Butylbenzene	50.0000	51.5412	-3.1	92	0.00
90	T	1,2,4-Trimethylbenzene	50.0000	52.1610	-4.3	91	0.00
91	T	sec-Butylbenzene	50.0000	52.9838	-6.0	92	0.00
92	T	p-Isopropyltoluene	50.0000	53.0156	-6.0	91	0.00
93	T	1,3-Dichlorobenzene	50.0000	50.7810	-1.6	90	0.00
94	T	1,4-Dichlorobenzene	50.0000	49.8345	0.3	90	0.00
95	T	n-Butylbenzene	50.0000	53.5376	-7.1	93	0.00
96	T	1,2-Dichlorobenzene	50.0000	49.8736	0.3	89	0.00
97	T	1,2-Dibromo-3-Chloropropane	50.0000	48.9479	2.1	82	0.00
98	T	1,2,4-Trichlorobenzene	50.0000	50.5256	-1.1	89	0.00
99	T	Hexachlorobutadiene	50.0000	50.1265	-0.3	91	0.00
100	T	Naphthalene	50.0000	50.1841	-0.4	85	0.00
101	T	1,2,3-Trichlorobenzene	50.0000	48.9079	2.2	88	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M139518.D 8260WTR.M Sun May 22 13:50:59 2016 Page 2

Data File : C:\MSDchem\1\data\052316\6M139544.D Vial: 3
Acq On : 23 May 2016 10:43 Operator: TMB
Sample : WG569851-02 50ug/L CCV STD 8260 Inst : HPMS6
Misc : 1,1 STD76244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 11:07:16 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	11.57	96	680964	25.00	ug/L	0.00
57) Chlorobenzene-d5	16.06	117	500927	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	282938	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	10.38	111	178237	24.9338	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.72%			
43) 1,2-Dichloroethane-d4	11.11	65	188340	23.6552	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 94.64%			
58) Toluene-d8	13.85	98	610093	24.7476	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 99.00%			
80) p-Bromofluorobenzene	17.84	95	248369	23.6812	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 94.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.44	85	595926	55.5690	ug/L	98
3) Chloromethane	3.92	50	654534	44.5053	ug/L	99
4) Vinyl Chloride	4.15	62	470981	49.8013	ug/L	99
5) 1,3-Butadiene	4.20	54	62342	63.3127	ug/L	99
6) Bromomethane	5.07	94	231519	43.3039	ug/L	99
7) Chloroethane	5.23	64	285220	47.2017	ug/L	97
8) Trichlorofluoromethane	5.73	101	639115	53.2619	ug/L	100
9) Diethyl ether	6.29	59	592140	93.2217	ug/L	99
10) Isoprene	6.32	67	285824	47.7042	ug/L	100
11) Acrolein	6.54	56	36248	37.9974	ug/L	98
12) 1,1,2-Trichloro-1,2,2-Trif	6.54	101	358859	52.3574	ug/L	99
13) Acetone	6.65	43	89131	42.9467	ug/L	97
14) 1,1-Dichloroethene	6.88	61	604861	48.7089	ug/L	98
15) Tert-Butyl Alcohol	7.01	59	103470	167.9634	ug/L	97
16) Dimethyl Sulfide	7.17	62	192556	47.5887	ug/L	99
17) Iodomethane	7.43	142	174711	48.6910	ug/L	98
18) Methyl acetate	7.45	43	255779	44.0787	ug/L	99
19) Methylene Chloride	7.72	84	361756	49.3216	ug/L	98
20) Carbon Disulfide	7.77	76	634969	49.4184	ug/L	100
21) Acrylonitrile	7.92	53	124102	48.9221	ug/L	100
22) Methyl Tert Butyl Ether	7.95	73	892987	47.2135	ug/L	99
23) trans-1,2-Dichloroethene	8.21	96	355174	50.0201	ug/L	99
24) n-Hexane	8.29	57	403993	53.9217	ug/L	99
25) Diisopropyl ether	8.67	45	2788066	95.9925	ug/L	100
26) Vinyl Acetate	8.85	43	643986	64.1964	ug/L	100
27) 1,1-Dichloroethane	8.89	63	700506	49.4806	ug/L	100
28) Ethyl-Tert-Butyl ether	9.30	59	2257765	93.5080	ug/L	99
29) 2-Butanone	9.51	43	138706	44.8841	ug/L	99
30) Propionitrile	9.63	54	79740	94.0018	ug/L	98
31) 2,2-Dichloropropane	9.75	77	542863	52.1180	ug/L	98
32) cis-1,2-Dichloroethene	9.82	96	391249	49.8790	ug/L	97
33) Chloroform	10.06	83	625085	48.2146	ug/L	99
34) 1-Bromopropane	10.21	122	56770	53.7258	ug/L	99
35) Bromochloromethane	10.32	130	223593	51.9653	ug/L	100
36) Tetrahydrofuran	10.35	42	180908	91.3539	ug/L	100
38) 1,1,1-Trichloroethane	10.65	97	563351	49.5852	ug/L	99
39) Cyclohexane	10.69	56	556532	48.9147	ug/L	99
40) 1,1-Dichloropropene	10.87	75	484840	49.1336	ug/L	97
41) Tert-Amyl-Methyl ether	11.00	73	1756108	93.3651	ug/L	98
42) Carbon Tetrachloride	11.04	117	520461	51.5836	ug/L	99

(#) = qualifier out of range (m) = manual integration
6M139544.D 8260WTR.M Mon May 23 11:07:16 2016 Page 1

Data File : C:\MSDchem\1\data\052316\6M139544.D Vial: 3
Acq On : 23 May 2016 10:43 Operator: TMB
Sample : WG569851-02 50ug/L CCV STD 8260 Inst : HPMS6
Misc : 1,1 STD76244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 11:07:16 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

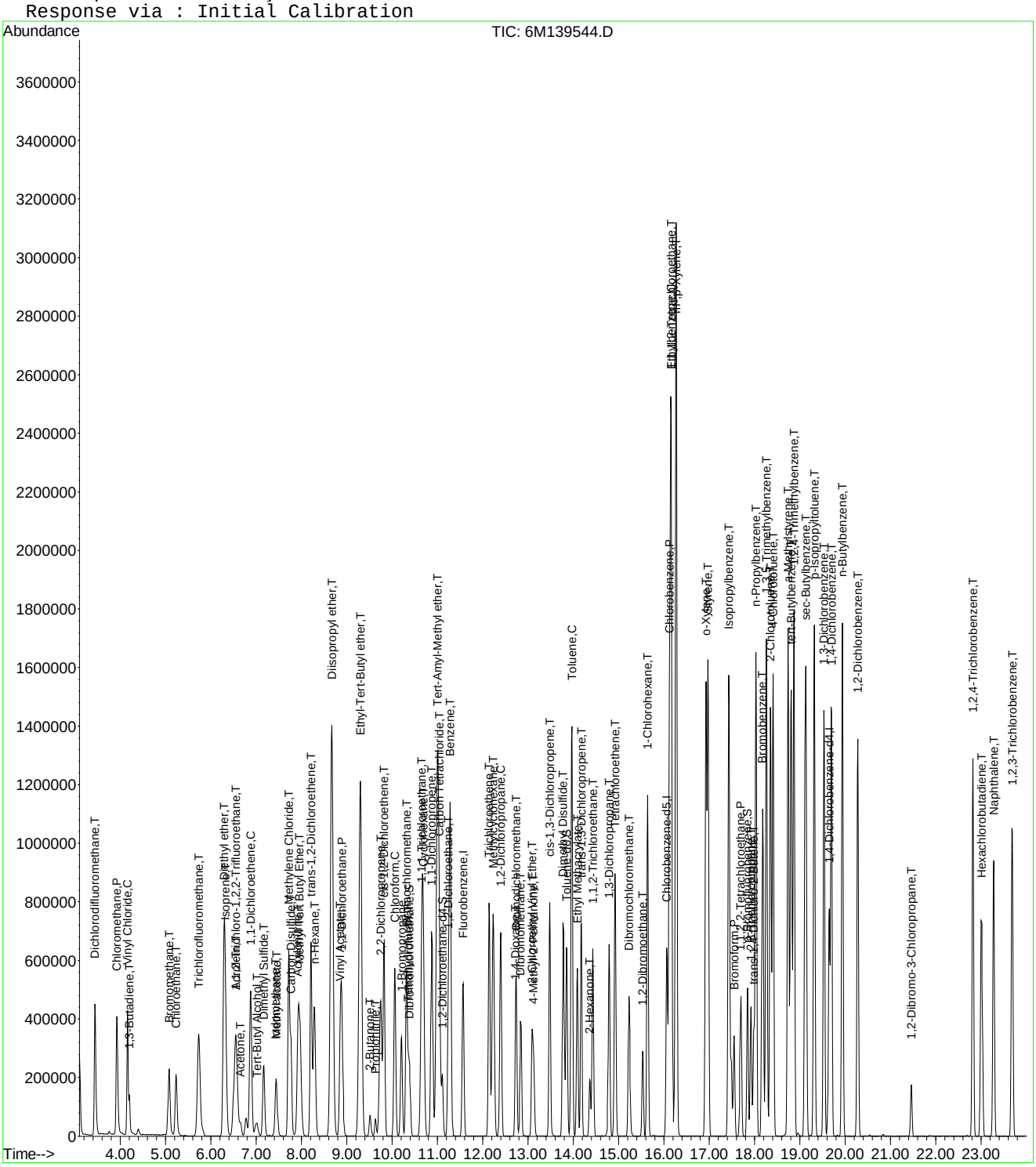
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
45)	1,2-Dichloroethane	11.24	62	481946	48.4073 ug/L	100
46)	Benzene	11.28	78	1388746	48.8462 ug/L	100
47)	Trichloroethene	12.14	130	355910	47.8600 ug/L	100
48)	Methylcyclohexane	12.23	83	495887	50.6428 ug/L	99
49)	1,2-Dichloropropane	12.40	63	385531	48.3184 ug/L	100
50)	1,4-Dioxane	12.72	88	9116	164.5224 ug/L	95
51)	Bromodichloromethane	12.74	83	487622	50.2314 ug/L	100
52)	Dibromomethane	12.83	93	203715	50.6727 ug/L	100
53)	2-Chloroethyl Vinyl Ether	13.09	63	182092	46.4568 ug/L	99
54)	4-Methyl-2-Pentanone	13.12	58	107597	44.9868 ug/L	99
55)	cis-1,3-Dichloropropene	13.48	75	572404	50.2919 ug/L	100
56)	Dimethyl Disulfide	13.77	79	298458	47.6551 ug/L	99
59)	Toluene	13.97	91	1458194	49.1135 ug/L	100
60)	Ethyl Methacrylate	14.09	69	415306	48.1285 ug/L	98
62)	trans-1,3-Dichloropropene	14.18	75	509939	50.4574 ug/L	100
63)	1,1,2-Trichloroethane	14.43	97	272378	49.5103 ug/L	99
64)	2-Hexanone	14.36	43	207324	43.0262 ug/L	100
65)	1,3-Dichloropropane	14.78	76	476617	48.7234 ug/L	97
66)	Tetrachloroethene	14.92	166	376248	48.6981 ug/L	99
67)	Dibromochloromethane	15.23	129	354262	52.5316 ug/L	99
68)	1,2-Dibromoethane	15.53	107	267241	49.5279 ug/L	100
69)	1-Chlorohexane	15.64	91	506307	49.5219 ug/L	99
70)	Chlorobenzene	16.12	112	964350	49.0200 ug/L	99
71)	1,1,1,2-Tetrachloroethane	16.16	131	366464	51.1297 ug/L	99
72)	Ethylbenzene	16.16	106	525522	49.3757 ug/L	99
73)	m-,p-Xylene	16.27	106	1262906	98.6875 ug/L	100
74)	o-Xylene	16.93	106	617044	48.6716 ug/L	99
75)	Styrene	16.97	104	1090988	49.8080 ug/L	100
76)	Bromoform	17.55	173	231512	53.5159 ug/L	100
77)	Isopropylbenzene	17.43	105	1604019	50.0382 ug/L	100
79)	1,1,2,2-Tetrachloroethane	17.70	83	343236	50.4824 ug/L	100
81)	1,2,3-Trichloropropane	17.92	110	97233	49.0722 ug/L	99
82)	trans-1,4-Dichloro-2-Buten	17.98	53	121395	50.5848 ug/L	98
83)	n-Propylbenzene	18.03	91	1960109	50.2164 ug/L	99
84)	Bromobenzene	18.18	156	433240	47.4623 ug/L	99
85)	1,3,5-Trimethylbenzene	18.26	105	1381069	49.0016 ug/L	100
86)	2-Chlorotoluene	18.35	91	1244352	48.0200 ug/L	100
87)	4-Chlorotoluene	18.41	91	1225535	49.4859 ug/L	100
88)	a-Methylstyrene	18.74	118	770404	49.2329 ug/L	99
89)	tert-Butylbenzene	18.81	134	302573	48.9907 ug/L	80
90)	1,2,4-Trimethylbenzene	18.87	105	1449803	50.2190 ug/L	100
91)	sec-Butylbenzene	19.12	105	1722818	50.6174 ug/L	100
92)	p-Isopropyltoluene	19.32	119	1497268	50.9119 ug/L	99
93)	1,3-Dichlorobenzene	19.53	146	856102	49.3046 ug/L	99
94)	1,4-Dichlorobenzene	19.70	146	851050	48.3353 ug/L	99
95)	n-Butylbenzene	19.94	91	1428837	51.0339 ug/L	100
96)	1,2-Dichlorobenzene	20.28	146	790774	48.1021 ug/L	99
97)	1,2-Dibromo-3-Chloropropan	21.46	75	61007	47.7619 ug/L	99
98)	1,2,4-Trichlorobenzene	22.82	180	566918	48.2537 ug/L	99
99)	Hexachlorobutadiene	23.02	225	235600	45.7332 ug/L	99
100)	Naphthalene	23.28	128	1100374	47.4276 ug/L	100
101)	1,2,3-Trichlorobenzene	23.69	180	517830	46.9019 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDchem\1\data\052316\6M139544.D Vial: 3
Acq On : 23 May 2016 10:43 Operator: TMB
Sample : WG569851-02 50ug/L CCV STD 8260 Inst : HPMS6
Misc : 1,1 STD76244 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 11:07 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration



Continuing Calibration Area and RT check

Instrument: HPMS6
Initial cal date: 11 May 2016 13:53
CCV date: 23 May 2016 10:43
CCV Filename: 6M139544.D

	Fluorobenzene		Chlorobenzene-d5		1,4-Dichlorobenzene-d4	
	Amount	RT	Amount	RT	Amount	RT
InitCal	798515	11.57	582993	16.06	328042	19.65
CCV	680964	11.57	500927	16.06	282938	19.65

Data File : C:\MSDCHEM\1\DATA\052316\6M139544.D Vial: 3
Acq On : 23 May 2016 10:43 Operator: TMB
Sample : WG569851-02 50ug/L CCV STD 8260 Inst : HPMS6
Misc : 1,1 STD76244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.0000	1.0000	0.0	85	0.00
2	T	Dichlorodifluoromethane	0.3937	0.4376	-11.1	90	0.00
3	P	Chloromethane	0.5399	0.4806	11.0	79	-0.01
4	C	Vinyl Chloride	0.3472	0.3458	0.4	90	0.00
5	T	1,3-Butadiene	0.0409	0.0458	-12.0	114	0.00
6	T	Bromomethane	0.1963	0.1700	13.4	81	0.00
7	T	Chloroethane	0.2218	0.2094	5.6	84	-0.01
8	T	Trichlorofluoromethane	0.4405	0.4693	-6.5	89	0.00
9	T	Diethyl ether	0.2332	0.2174	6.8	83	0.00
10	T	Isoprene	0.2200	0.2099	4.6	85	0.00
11	T	Acrolein	0.0350	0.0266	24.0#	67	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.2516	0.2635	-4.7	92	0.00
13	T	Acetone	0.0812	0.0654	19.4	75	-0.01
14	C	1,1-Dichloroethene	0.4559	0.4441	2.6	86	0.00
15	T	Tert-Butyl Alcohol	0.0226	0.0190	16.0	71	0.00
16	T	Dimethyl Sulfide	0.1485	0.1414	4.8	82	0.00
17	T	Iodomethane	0.1090	0.1283	-17.7	79	-0.01
18	T	Methyl acetate	0.2130	0.1878	11.8	78	0.00
19	T	Methylene Chloride	0.2693	0.2656	1.4	87	0.00
20	T	Carbon Disulfide	0.4717	0.4662	1.2	88	0.00
21	T	Acrylonitrile	0.0931	0.0911	2.2	81	0.00
22	T	Methyl Tert Butyl Ether	0.6944	0.6557	5.6	82	0.00
23	T	trans-1,2-Dichloroethene	0.2607	0.2608	-0.0	87	0.00
24	T	n-Hexane	0.2751	0.2966	-7.8	96	0.00
25	T	Diisopropyl ether	1.0663	1.0236	4.0	82	0.00
26	T	Vinyl Acetate	0.3683	0.4728	-28.4#	119	-0.01
27	P	1,1-Dichloroethane	0.5198	0.5143	1.0	86	0.00
28	T	Ethyl-Tert-Butyl ether	0.8864	0.8289	6.5	80	0.00
29	T	2-Butanone	0.1135	0.1019	10.2	77	-0.01
30	T	Propionitrile	0.0311	0.0293	6.0	78	-0.01
31	T	2,2-Dichloropropane	0.3824	0.3986	-4.2	96	0.00
32	T	cis-1,2-Dichloroethene	0.2880	0.2873	0.2	87	0.00
33	C	Chloroform	0.4760	0.4590	3.6	86	0.00
34		1-Bromopropane	0.0388	0.0417	-7.5	89	0.00
35	T	Bromochloromethane	0.1580	0.1642	-3.9	87	0.00
36	T	Tetrahydrofuran	0.0788	0.0664	15.7	77	0.00
37	S	Dibromofluoromethane	0.2624	0.2617	0.3	87	0.00
38	T	1,1,1-Trichloroethane	0.4171	0.4136	0.8	86	0.00
39	T	Cyclohexane	0.4177	0.4086	2.2	88	0.00
40	T	1,1-Dichloropropene	0.3623	0.3560	1.7	86	0.00
41	T	Tert-Amyl-Methyl ether	0.6905	0.6447	6.6	80	0.00
42	T	Carbon Tetrachloride	0.3704	0.3821	-3.2	88	0.00
43	S	1,2-Dichloroethane-d4	0.2923	0.2766	5.4	82	0.00
44		Heptane	0.0000	0.0000	0.0	77	-0.01
45	T	1,2-Dichloroethane	0.3655	0.3539	3.2	84	0.00
46	T	Benzene	1.0438	1.0197	2.3	86	0.00
47	T	Trichloroethene	0.2730	0.2613	4.3	83	0.00
48	T	Methylcyclohexane	0.3595	0.3641	-1.3	89	0.00
49	C	1,2-Dichloropropane	0.2929	0.2831	3.4	85	0.00
50	T	1,4-Dioxane	0.0020	0.0017	17.7	66	0.00
51	T	Bromodichloromethane	0.3564	0.3580	-0.5	85	0.00
52	T	Dibromomethane	0.1476	0.1496	-1.3	86	0.00
53	T	2-Chloroethyl Vinyl Ether	0.1439	0.1337	7.1	75	0.00
54	T	4-Methyl-2-Pentanone	0.0878	0.0790	10.0	74	0.00

(#) = Out of Range
6M139544.D 8260WTR.M Mon May 23 11:16:04 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\052316\6M139544.D Vial: 3
Acq On : 23 May 2016 10:43 Operator: TMB
Sample : WG569851-02 50ug/L CCV STD 8260 Inst : HPMS6
Misc : 1,1 STD76244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	0.4179	0.4203	-0.6	86	0.00
56	T	Dimethyl Disulfide	0.2299	0.2191	4.7	82	0.00
57	I	Chlorobenzene-d5	1.0000	1.0000	0.0	86	0.00
58	S	Toluene-d8	1.2304	1.2179	1.0	87	0.00
59	C	Toluene	1.4818	1.4555	1.8	86	0.00
60	T	Ethyl Methacrylate	0.4307	0.4145	3.7	84	0.00
61		Paraldehyde	0.0000	0.0000	0.0	87	-0.01
62	T	trans-1,3-Dichloropropene	0.5044	0.5090	-0.9	87	0.00
63	T	1,1,2-Trichloroethane	0.2746	0.2719	1.0	86	0.00
64	T	2-Hexanone	0.2405	0.2069	13.9	74	0.00
65	T	1,3-Dichloropropane	0.4882	0.4757	2.6	84	0.00
66	T	Tetrachloroethene	0.3856	0.3755	2.6	86	0.00
67	T	Dibromochloromethane	0.3366	0.3536	-5.1	86	0.00
68	T	1,2-Dibromoethane	0.2693	0.2667	0.9	84	0.00
69	T	1-Chlorohexane	0.5102	0.5054	1.0	90	0.00
70	P	Chlorobenzene	0.9818	0.9626	2.0	86	0.00
71	T	1,1,1,2-Tetrachloroethane	0.3577	0.3658	-2.3	87	0.00
72	C	Ethylbenzene	0.5312	0.5245	1.2	86	0.00
73	T	m-,p-Xylene	0.6387	0.6303	1.3	86	0.00
74	T	o-Xylene	0.6327	0.6159	2.7	85	0.00
75	T	Styrene	1.0932	1.0890	0.4	85	0.00
76	P	Bromoform	0.2159	0.2311	-7.0	88	0.00
77	T	Isopropylbenzene	1.5998	1.6011	-0.1	86	0.00
78	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	86	0.00
79	P	1,1,2,2-Tetrachloroethane	0.6008	0.6066	-1.0	88	0.00
80	S	p-Bromofluorobenzene	0.9267	0.8778	5.3	84	0.00
81	T	1,2,3-Trichloropropane	0.1751	0.1718	1.9	84	0.00
82	T	trans-1,4-Dichloro-2-Butene	0.2120	0.2145	-1.2	84	0.00
83	T	n-Propylbenzene	3.4489	3.4638	-0.4	88	0.00
84	T	Bromobenzene	0.8065	0.7656	5.1	86	0.00
85	T	1,3,5-Trimethylbenzene	2.4903	2.4406	2.0	86	0.00
86	T	2-Chlorotoluene	2.2897	2.1990	4.0	86	0.00
87	T	4-Chlorotoluene	2.1882	2.1657	1.0	88	0.00
88	T	a-Methylstyrene	1.3826	1.3614	1.5	86	0.00
89	T	tert-Butylbenzene	0.5457	0.5347	2.0	86	0.00
90	T	1,2,4-Trimethylbenzene	2.5509	2.5621	-0.4	87	0.00
91	T	sec-Butylbenzene	3.0074	3.0445	-1.2	87	0.00
92	T	p-Isopropyltoluene	2.5985	2.6459	-1.8	87	0.00
93	T	1,3-Dichlorobenzene	1.5342	1.5129	1.4	87	0.00
94	T	1,4-Dichlorobenzene	1.5558	1.5039	3.3	86	0.00
95	T	n-Butylbenzene	2.4739	2.5250	-2.1	87	0.00
96	T	1,2-Dichlorobenzene	1.4526	1.3974	3.8	85	0.00
97	T	1,2-Dibromo-3-Chloropropane	0.1129	0.1078	4.5	79	0.00
98	T	1,2,4-Trichlorobenzene	1.0381	1.0018	3.5	84	0.00
99	T	Hexachlorobutadiene	0.4552	0.4164	8.5	82	0.00
100	T	Naphthalene	2.0500	1.9446	5.1	79	0.00
101	T	1,2,3-Trichlorobenzene	0.9755	0.9151	6.2	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M139544.D 8260WTR.M Mon May 23 11:16:04 2016 Page 2

Data File : C:\MSDCHEM\1\DATA\052316\6M139544.D Vial: 3
Acq On : 23 May 2016 10:43 Operator: TMB
Sample : WG569851-02 50ug/L CCV STD 8260 Inst : HPMS6
Misc : 1,1 STD76244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	85	0.00
2	T	Dichlorodifluoromethane	50.0000	55.5690	-11.1	90	0.00
3	P	Chloromethane	50.0000	44.5053	11.0	79	-0.01
4	C	Vinyl Chloride	50.0000	49.8013	0.4	90	0.00
5	T	1,3-Butadiene	50.0000	63.3127	-26.6#	114	0.00
6	T	Bromomethane	50.0000	43.3039	13.4	81	0.00
7	T	Chloroethane	50.0000	47.2017	5.6	84	-0.01
8	T	Trichlorofluoromethane	50.0000	53.2619	-6.5	89	0.00
9	T	Diethyl ether	100.0000	93.2217	6.8	83	0.00
10	T	Isoprene	50.0000	47.7042	4.6	85	0.00
11	T	Acrolein	50.0000	37.9974	24.0#	67	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	52.3574	-4.7	92	0.00
13	T	Acetone	50.0000	42.9467	14.1	75	-0.01
14	C	1,1-Dichloroethene	50.0000	48.7089	2.6	86	0.00
15	T	Tert-Butyl Alcohol	200.0000	167.9634	16.0	71	0.00
16	T	Dimethyl Sulfide	50.0000	47.5887	4.8	82	0.00
17	T	Iodomethane	50.0000	48.6910	2.6	79	-0.01
18	T	Methyl acetate	50.0000	44.0787	11.8	78	0.00
19	T	Methylene Chloride	50.0000	49.3216	1.4	87	0.00
20	T	Carbon Disulfide	50.0000	49.4184	1.2	88	0.00
21	T	Acrylonitrile	50.0000	48.9221	2.2	81	0.00
22	T	Methyl Tert Butyl Ether	50.0000	47.2135	5.6	82	0.00
23	T	trans-1,2-Dichloroethene	50.0000	50.0201	-0.0	87	0.00
24	T	n-Hexane	50.0000	53.9217	-7.8	96	0.00
25	T	Diisopropyl ether	100.0000	95.9925	4.0	82	0.00
26	T	Vinyl Acetate	50.0000	64.1964	-28.4#	119	-0.01
27	P	1,1-Dichloroethane	50.0000	49.4806	1.0	86	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	93.5079	6.5	80	0.00
29	T	2-Butanone	50.0000	44.8841	10.2	77	-0.01
30	T	Propionitrile	100.0000	94.0018	6.0	78	-0.01
31	T	2,2-Dichloropropane	50.0000	52.1180	-4.2	96	0.00
32	T	cis-1,2-Dichloroethene	50.0000	49.8790	0.2	87	0.00
33	C	Chloroform	50.0000	48.2146	3.6	86	0.00
34		1-Bromopropane	50.0000	53.7258	-7.5	89	0.00
35	T	Bromochloromethane	50.0000	51.9653	-3.9	87	0.00
36	T	Tetrahydrofuran	100.0000	91.3539	8.6	77	0.00
37	S	Dibromofluoromethane	25.0000	24.9338	0.3	87	0.00
38	T	1,1,1-Trichloroethane	50.0000	49.5852	0.8	86	0.00
39	T	Cyclohexane	50.0000	48.9147	2.2	88	0.00
40	T	1,1-Dichloropropene	50.0000	49.1337	1.7	86	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	93.3651	6.6	80	0.00
42	T	Carbon Tetrachloride	50.0000	51.5836	-3.2	88	0.00
43	S	1,2-Dichloroethane-d4	25.0000	23.6552	5.4	82	0.00
44		Heptane	-1.0000	0.0000	0.0	77	-0.01
45	T	1,2-Dichloroethane	50.0000	48.4073	3.2	84	0.00
46	T	Benzene	50.0000	48.8462	2.3	86	0.00
47	T	Trichloroethene	50.0000	47.8600	4.3	83	0.00
48	T	Methylcyclohexane	50.0000	50.6428	-1.3	89	0.00
49	C	1,2-Dichloropropane	50.0000	48.3184	3.4	85	0.00
50	T	1,4-Dioxane	200.0000	164.5224	17.7	66	0.00
51	T	Bromodichloromethane	50.0000	50.2314	-0.5	85	0.00
52	T	Dibromomethane	50.0000	50.6727	-1.3	86	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	46.4568	7.1	75	0.00
54	T	4-Methyl-2-Pentanone	50.0000	44.9868	10.0	74	0.00

(#) = Out of Range
6M139544.D 8260WTR.M Mon May 23 11:16:05 2016 Page 1

Data File : C:\MSDCHEM\1\DATA\052316\6M139544.D Vial: 3
Acq On : 23 May 2016 10:43 Operator: TMB
Sample : WG569851-02 50ug/L CCV STD 8260 Inst : HPMS6
Misc : 1,1 STD76244 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	50.0000	50.2919	-0.6	86	0.00
56	T	Dimethyl Disulfide	50.0000	47.6551	4.7	82	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	86	0.00
58	S	Toluene-d8	25.0000	24.7476	1.0	87	0.00
59	C	Toluene	50.0000	49.1135	1.8	86	0.00
60	T	Ethyl Methacrylate	50.0000	48.1285	3.7	84	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	87	-0.01
62	T	trans-1,3-Dichloropropene	50.0000	50.4574	-0.9	87	0.00
63	T	1,1,2-Trichloroethane	50.0000	49.5103	1.0	86	0.00
64	T	2-Hexanone	50.0000	43.0262	13.9	74	0.00
65	T	1,3-Dichloropropane	50.0000	48.7234	2.6	84	0.00
66	T	Tetrachloroethene	50.0000	48.6981	2.6	86	0.00
67	T	Dibromochloromethane	50.0000	52.5316	-5.1	86	0.00
68	T	1,2-Dibromoethane	50.0000	49.5279	0.9	84	0.00
69	T	1-Chlorohexane	50.0000	49.5219	1.0	90	0.00
70	P	Chlorobenzene	50.0000	49.0200	2.0	86	0.00
71	T	1,1,1,2-Tetrachloroethane	50.0000	51.1297	-2.3	87	0.00
72	C	Ethylbenzene	50.0000	49.3757	1.2	86	0.00
73	T	m-,p-Xylene	100.0000	98.6875	1.3	86	0.00
74	T	o-Xylene	50.0000	48.6716	2.7	85	0.00
75	T	Styrene	50.0000	49.8080	0.4	85	0.00
76	P	Bromoform	50.0000	53.5159	-7.0	88	0.00
77	T	Isopropylbenzene	50.0000	50.0382	-0.1	86	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	86	0.00
79	P	1,1,2,2-Tetrachloroethane	50.0000	50.4824	-1.0	88	0.00
80	S	p-Bromofluorobenzene	25.0000	23.6812	5.3	84	0.00
81	T	1,2,3-Trichloropropane	50.0000	49.0722	1.9	84	0.00
82	T	trans-1,4-Dichloro-2-Butene	50.0000	50.5848	-1.2	84	0.00
83	T	n-Propylbenzene	50.0000	50.2164	-0.4	88	0.00
84	T	Bromobenzene	50.0000	47.4623	5.1	86	0.00
85	T	1,3,5-Trimethylbenzene	50.0000	49.0016	2.0	86	0.00
86	T	2-Chlorotoluene	50.0000	48.0200	4.0	86	0.00
87	T	4-Chlorotoluene	50.0000	49.4858	1.0	88	0.00
88	T	a-Methylstyrene	50.0000	49.2329	1.5	86	0.00
89	T	tert-Butylbenzene	50.0000	48.9907	2.0	86	0.00
90	T	1,2,4-Trimethylbenzene	50.0000	50.2190	-0.4	87	0.00
91	T	sec-Butylbenzene	50.0000	50.6174	-1.2	87	0.00
92	T	p-Isopropyltoluene	50.0000	50.9119	-1.8	87	0.00
93	T	1,3-Dichlorobenzene	50.0000	49.3045	1.4	87	0.00
94	T	1,4-Dichlorobenzene	50.0000	48.3353	3.3	86	0.00
95	T	n-Butylbenzene	50.0000	51.0339	-2.1	87	0.00
96	T	1,2-Dichlorobenzene	50.0000	48.1021	3.8	85	0.00
97	T	1,2-Dibromo-3-Chloropropane	50.0000	47.7619	4.5	79	0.00
98	T	1,2,4-Trichlorobenzene	50.0000	48.2537	3.5	84	0.00
99	T	Hexachlorobutadiene	50.0000	45.7332	8.5	82	0.00
100	T	Naphthalene	50.0000	47.4276	5.1	79	0.00
101	T	1,2,3-Trichlorobenzene	50.0000	46.9019	6.2	84	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
6M139544.D 8260WTR.M Mon May 23 11:16:05 2016 Page 2

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412474.D Vial: 2
Acq On : 22 May 2016 12:59 Operator: FJB
Sample : WG569792-02 50ug/L CCV 8260 Inst : HPMS8
Misc : 1,1 STD76232 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 08:18:25 2016 Quant Results File: 8260WT.RES

Quant Method : K:\ORGANICS\V...\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	10.71	96	728967	25.00 ug/L	0.00
57) Chlorobenzene-d5	14.57	117	530043	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	296876	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	9.66	111	205390	26.2240 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 104.88%		
43) 1,2-Dichloroethane-d4	10.30	65	217630	25.9145 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.64%		
58) Toluene-d8	12.68	98	720526	25.9743 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 103.88%		
80) p-Bromofluorobenzene	16.08	95	300206	24.4213 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 97.68%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.16	85	797031	65.2138 ug/L	99
3) Chloromethane	3.62	50	335172	46.9814 ug/L	99
4) Vinyl Chloride	3.85	62	465502	54.9963 ug/L	99
5) 1,3-Butadiene	3.89	54	404867	57.0381 ug/L	98
6) Bromomethane	4.73	94	204903	40.4248 ug/L	99
7) Chloroethane	4.89	64	241332	51.8167 ug/L	98
8) Trichlorofluoromethane	5.37	101	948967	60.2536 ug/L	99
9) Diethyl ether	5.90	59	340478	90.5541 ug/L	98
10) Isoprene	5.94	67	499237	52.1987 ug/L	99
11) Acrolein	6.14	56	10039	29.8206 ug/L	84
12) 1,1,2-Trichloro-1,2,2-Trif	6.15	101	422310	57.0444 ug/L	95
13) Acetone	6.23	43	39280	47.8933 ug/L	98
14) 1,1-Dichloroethene	6.46	61	667849	56.6573 ug/L	99
15) Tert-Butyl Alcohol	6.56	59	49630	188.8325 ug/L	98
16) Dimethyl Sulfide	6.73	62	208314	49.4260 ug/L	98
17) Iodomethane	6.98	142	100561	31.9933 ug/L	95
18) Methyl acetate	7.00	43	105306	47.5003 ug/L	99
19) Methylene Chloride	7.25	84	382389	50.9759 ug/L	99
20) Carbon Disulfide	7.29	76	1323780	53.6648 ug/L	100
21) Acrylonitrile	7.43	53	48889	45.9423 ug/L	98
22) Methyl Tert Butyl Ether	7.46	73	810037	49.8939 ug/L	99
23) trans-1,2-Dichloroethene	7.70	61	586216	54.1325 ug/L	99
24) n-Hexane	7.78	57	442576	55.0372 ug/L	100
25) Diisopropyl ether	8.12	45	1610347	95.3978 ug/L	98
26) Vinyl Acetate	8.29	43	336897	43.5904 ug/L	99
27) 1,1-Dichloroethane	8.32	63	729598	54.2497 ug/L	100
28) Ethyl-Tert-Butyl ether	8.70	59	1787866	98.8542 ug/L	99
29) 2-Butanone	8.88	43	53668	44.5375 ug/L	98
30) Propionitrile	8.98	54	31761	90.4461 ug/L	99
31) 2,2-Dichloropropane	9.10	77	883049	62.3063 ug/L	100
32) cis-1,2-Dichloroethene	9.17	96	445284	53.2153 ug/L	99
33) Chloroform	9.37	83	881984	55.5420 ug/L	100
34) 1-Bromopropane	9.51	122	67653	56.4455 ug/L	100
35) Bromochloromethane	9.60	130	227064	52.9179 ug/L	96
36) Tetrahydrofuran	9.63	42	63977	80.6106 ug/L	98
38) 1,1,1-Trichloroethane	9.90	97	909121	60.2717 ug/L	100
39) Cyclohexane	9.94	56	550302	52.6964 ug/L	98
40) 1,1-Dichloropropene	10.10	75	647282	56.2997 ug/L	99
41) Tert-Amyl-Methyl ether	10.21	73	1608058	97.8941 ug/L	99
42) Carbon Tetrachloride	10.25	117	817078	61.0026 ug/L	100

(#) = qualifier out of range (m) = manual integration
8M412474.D 8260WT.M Mon May 23 08:18:27 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412474.D Vial: 2
Acq On : 22 May 2016 12:59 Operator: FJB
Sample : WG569792-02 50ug/L CCV 8260 Inst : HPMS8
Misc : 1,1 STD76232 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 08:18:25 2016 Quant Results File: 8260WT.RES

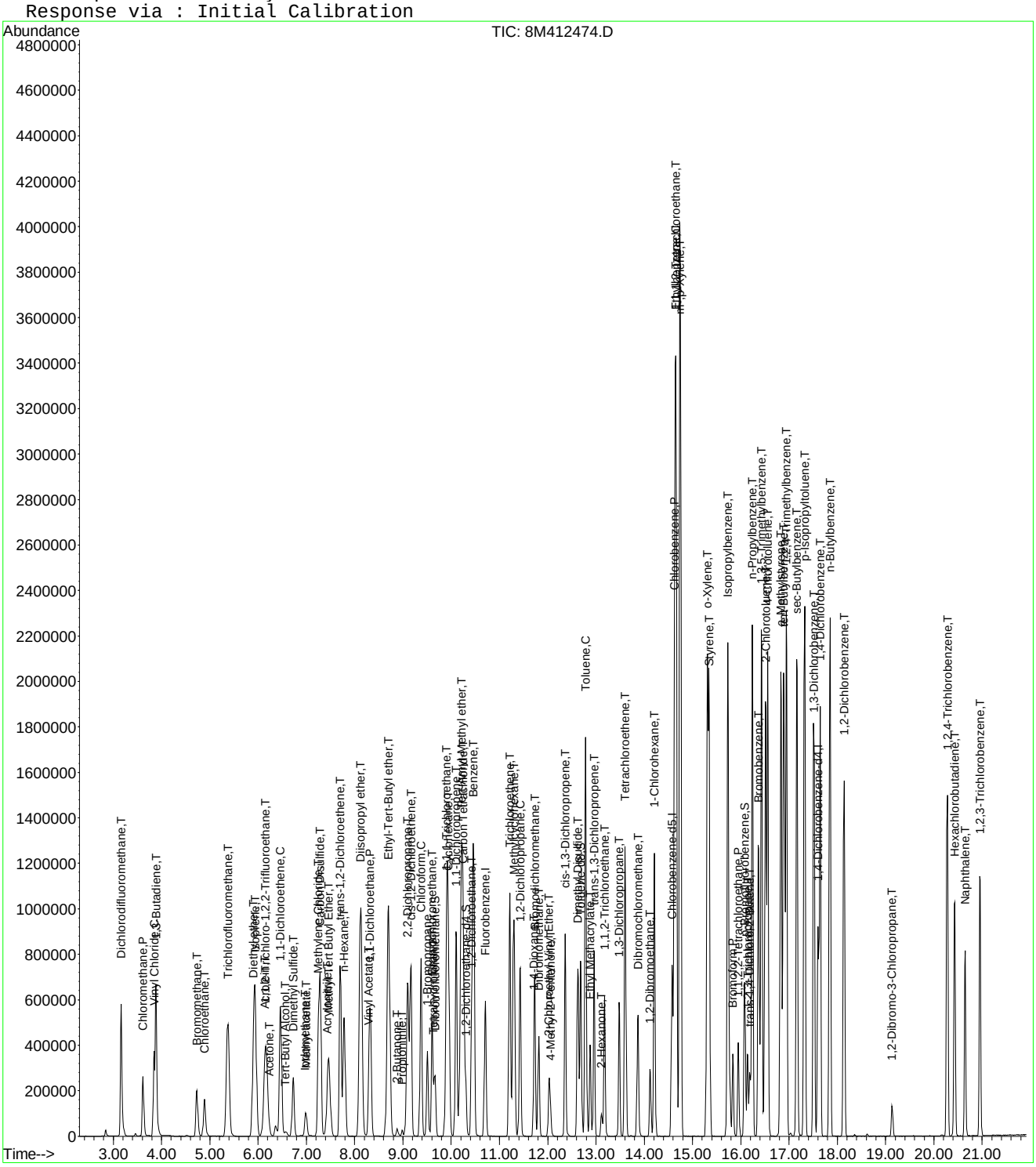
Quant Method : K:\ORGANICS\V...\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
45)	1,2-Dichloroethane	10.42	62	571549	55.9212	ug/L		99
46)	Benzene	10.46	78	1608987	53.7331	ug/L		100
47)	Trichloroethene	11.21	130	443791	55.5683	ug/L		99
48)	Methylcyclohexane	11.30	83	675231	55.6533	ug/L		99
49)	1,2-Dichloropropane	11.43	63	340600	51.0961	ug/L		92
50)	Bromodichloromethane	11.73	83	653494	55.7784	ug/L		99
51)	1,4-Dioxane	11.71	88	5643	168.5250	ug/L		96
52)	Dibromomethane	11.81	93	197347	50.0135	ug/L		98
53)	2-Chloroethyl Vinyl Ether	12.02	63	127960	44.6622	ug/L		98
54)	4-Methyl-2-Pentanone	12.06	58	50758	43.3705	ug/L		94
55)	cis-1,3-Dichloropropene	12.36	75	645733	54.1489	ug/L		97
56)	Dimethyl Disulfide	12.62	79	324454	50.9757	ug/L		99
59)	Toluene	12.79	91	1715289	52.1270	ug/L		99
60)	Ethyl Methacrylate	12.88	69	295154	46.7056	ug/L		99
62)	trans-1,3-Dichloropropene	12.96	75	571224	51.8005	ug/L		100
63)	1,1,2-Trichloroethane	13.18	97	245468	47.2741	ug/L		100
64)	2-Hexanone	13.12	58	43905	40.2374	ug/L	#	96
65)	1,3-Dichloropropane	13.48	76	453638	49.0705	ug/L		99
66)	Tetrachloroethene	13.60	164	386138	54.7707	ug/L		99
67)	Dibromochloromethane	13.87	129	388951	51.3016	ug/L		100
68)	1,2-Dibromoethane	14.12	107	253742	49.0326	ug/L		99
69)	1-Chlorohexane	14.21	91	602398	53.6298	ug/L		100
70)	Chlorobenzene	14.62	112	1147079	51.6948	ug/L		100
71)	1,1,1,2-Tetrachloroethane	14.66	131	460321	53.5475	ug/L		100
72)	Ethylbenzene	14.66	106	631888	52.0481	ug/L		100
73)	m-,p-Xylene	14.74	106	1519652	106.7164	ug/L		99
74)	o-Xylene	15.31	106	732749	52.6319	ug/L		99
75)	Styrene	15.35	104	1234499	54.0628	ug/L		97
76)	Bromoform	15.83	173	229411	51.0145	ug/L		98
77)	Isopropylbenzene	15.73	105	2029026	54.8611	ug/L		99
79)	1,1,2,2-Tetrachloroethane	15.95	83	262833	44.1054	ug/L		99
81)	1,2,3-Trichloropropane	16.14	110	83486	45.4948	ug/L		85
82)	trans-1,4-Dichloro-2-Buten	16.19	53	79910	42.8111	ug/L		85
83)	n-Propylbenzene	16.24	91	2429917	52.4640	ug/L		99
84)	Bromobenzene	16.37	156	474975	49.8575	ug/L		98
85)	1,3,5-Trimethylbenzene	16.42	105	1784227	52.8843	ug/L		100
86)	2-Chlorotoluene	16.52	91	1659126	51.3078	ug/L		100
87)	4-Chlorotoluene	16.56	91	1462178	50.0587	ug/L		99
88)	a-Methylstyrene	16.83	118	808415	50.5045	ug/L		99
89)	tert-Butylbenzene	16.89	134	337121	51.0756	ug/L		99
90)	1,2,4-Trimethylbenzene	16.94	105	1810963	52.2012	ug/L		100
91)	sec-Butylbenzene	17.16	105	2086519	52.5694	ug/L		99
92)	p-Isopropyltoluene	17.32	119	1780005	52.8182	ug/L		98
93)	1,3-Dichlorobenzene	17.52	146	941297	51.3136	ug/L		99
94)	1,4-Dichlorobenzene	17.64	146	914047	49.4240	ug/L		99
95)	n-Butylbenzene	17.85	91	1752792	52.6100	ug/L		99
96)	1,2-Dichlorobenzene	18.14	146	796240	48.8040	ug/L		98
97)	1,2-Dibromo-3-Chloropropan	19.13	75	54864	45.8651	ug/L		98
98)	1,2,4-Trichlorobenzene	20.28	180	608336	49.8840	ug/L		100
99)	Hexachlorobutadiene	20.43	225	309225	54.2693	ug/L		98
100)	Naphthalene	20.65	128	823815	45.4686	ug/L		100
101)	1,2,3-Trichlorobenzene	20.96	180	480694	46.7219	ug/L		98

(#) = qualifier out of range (m) = manual integration
8M412474.D 8260WT.M Mon May 23 08:18:27 2016 Page 2

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412474.D Vial: 2
Acq On : 22 May 2016 12:59 Operator: FJB
Sample : WG569792-02 50ug/L CCV 8260 Inst : HPMS8
Misc : 1,1 STD76232 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 8:17 2016 Quant Results File: 8260WT.RES

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration



Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412474.D Vial: 2
Acq On : 22 May 2016 12:59 Operator: FJB
Sample : WG569792-02 50ug/L CCV 8260 Inst : HPMS8
Misc : 1,1 STD76232 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.0000	1.0000	0.0	94	0.00
2	T	Dichlorodifluoromethane	0.4192	0.5467	-30.4#	117	0.00
3	P	Chloromethane	0.2447	0.2299	6.0	90	0.00
4	C	Vinyl Chloride	0.2903	0.3193	-10.0	103	0.00
5	T	1,3-Butadiene	0.2434	0.2777	-14.1	104	0.00
6	T	Bromomethane	0.1654	0.1405	15.1	79	0.00
7	T	Chloroethane	0.1597	0.1655	-3.6	99	0.00
8	T	Trichlorofluoromethane	0.5401	0.6509	-20.5	113	0.00
9	T	Diethyl ether	0.1290	0.1168	9.4	87	0.00
10	T	Isoprene	0.3280	0.3424	-4.4	100	0.00
11	T	Acrolein	0.0116	0.0069	40.3#	57	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	0.2539	0.2897	-14.1	109	0.00
13	T	Acetone	0.0281	0.0269	4.2	86	-0.01
14	C	1,1-Dichloroethene	0.4043	0.4581	-13.3	108	0.00
15	T	Tert-Butyl Alcohol	0.0090	0.0085	5.5	89	-0.01
16	T	Dimethyl Sulfide	0.1445	0.1429	1.1	94	0.00
17	T	Iodomethane	0.0866	0.0690	20.3	64	0.00
18	T	Methyl acetate	0.0760	0.0722	5.0	92	0.00
19	T	Methylene Chloride	0.2573	0.2623	-2.0	98	0.00
20	T	Carbon Disulfide	0.8460	0.9080	-7.3	104	0.00
21	T	Acrylonitrile	0.0365	0.0335	8.1	82	0.00
22	T	Methyl Tert Butyl Ether	0.5568	0.5556	0.2	90	0.00
23	T	trans-1,2-Dichloroethene	0.3714	0.4021	-8.3	103	0.00
24	T	n-Hexane	0.2758	0.3036	-10.1	105	0.00
25	T	Diisopropyl ether	0.5789	0.5523	4.6	90	0.00
26	T	Vinyl Acetate	0.2651	0.2311	12.8	79	0.00
27	P	1,1-Dichloroethane	0.4612	0.5004	-8.5	101	0.00
28	T	Ethyl-Tert-Butyl ether	0.6203	0.6131	1.1	91	0.00
29	T	2-Butanone	0.0413	0.0368	10.9	81	0.00
30	T	Propionitrile	0.0120	0.0109	9.6	83	0.00
31	T	2,2-Dichloropropane	0.4860	0.6057	-24.6	115	0.00
32	T	cis-1,2-Dichloroethene	0.2870	0.3054	-6.4	101	0.00
33	C	Chloroform	0.5446	0.6049	-11.1	104	0.00
34		1-Bromopropane	0.0411	0.0464	-12.9	107	0.00
35	T	Bromochloromethane	0.1472	0.1557	-5.8	99	0.00
36	T	Tetrahydrofuran	0.0272	0.0219	19.4	81	0.00
37	S	Dibromofluoromethane	0.2686	0.2818	-4.9	97	0.00
38	T	1,1,1-Trichloroethane	0.5173	0.6236	-20.5	111	0.00
39	T	Cyclohexane	0.3581	0.3775	-5.4	103	0.00
40	T	1,1-Dichloropropene	0.3943	0.4440	-12.6	105	0.00
41	T	Tert-Amyl-Methyl ether	0.5634	0.5515	2.1	91	0.00
42	T	Carbon Tetrachloride	0.4593	0.5604	-22.0	113	0.00
43	S	1,2-Dichloroethane-d4	0.2880	0.2985	-3.7	95	0.00
44		Heptane	0.0000	0.0000	0.0	0#	-2.54#
45	T	1,2-Dichloroethane	0.3505	0.3920	-11.8	102	0.00
46	T	Benzene	1.0269	1.1036	-7.5	100	0.00
47	T	Trichloroethene	0.2739	0.3044	-11.1	104	0.00
48	T	Methylcyclohexane	0.4161	0.4631	-11.3	106	0.00
49	C	1,2-Dichloropropane	0.2286	0.2336	-2.2	97	0.00
50	T	Bromodichloromethane	0.4018	0.4482	-11.6	100	0.00
51	T	1,4-Dioxane	0.0012	0.0010	15.7	75	0.00
52	T	Dibromomethane	0.1353	0.1354	-0.0	94	0.00
53	T	2-Chloroethyl Vinyl Ether	0.0983	0.0878	10.7	79	0.00
54	T	4-Methyl-2-Pentanone	0.0401	0.0348	13.3	78	0.00

(#) = Out of Range
8M412474.D 8260WT.M Sun May 22 13:34:06 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412474.D Vial: 2
Acq On : 22 May 2016 12:59 Operator: FJB
Sample : WG569792-02 50ug/L CCV 8260 Inst : HPMS8
Misc : 1,1 STD76232 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	0.4090	0.4429	-8.3	97	0.00
56	T	Dimethyl Disulfide	0.2183	0.2225	-2.0	94	0.00
57	I	Chlorobenzene-d5	1.0000	1.0000	0.0	98	0.00
58	S	Toluene-d8	1.3084	1.3594	-3.9	100	0.00
59	C	Toluene	1.5520	1.6181	-4.3	102	0.00
60	T	Ethyl Methacrylate	0.2981	0.2784	6.6	87	0.00
61		Paraldehyde	0.0000	0.0000	0.0	0#	-13.14#
62	T	trans-1,3-Dichloropropene	0.5201	0.5389	-3.6	96	0.00
63	T	1,1,2-Trichloroethane	0.2449	0.2316	5.5	91	0.00
64	T	2-Hexanone	0.0515	0.0414	19.5	77	0.00
65	T	1,3-Dichloropropane	0.4360	0.4279	1.9	93	0.00
66	T	Tetrachloroethene	0.3325	0.3643	-9.5	110	0.00
67	T	Dibromochloromethane	0.3576	0.3669	-2.6	97	0.00
68	T	1,2-Dibromoethane	0.2441	0.2394	1.9	93	0.00
69	T	1-Chlorohexane	0.5298	0.5683	-7.3	107	0.00
70	P	Chlorobenzene	1.0466	1.0821	-3.4	103	0.00
71	T	1,1,1,2-Tetrachloroethane	0.4055	0.4342	-7.1	103	0.00
72	C	Ethylbenzene	0.5726	0.5961	-4.1	105	0.00
73	T	m-,p-Xylene	0.6716	0.7168	-6.7	105	0.00
74	T	o-Xylene	0.6566	0.6912	-5.3	103	0.00
75	T	Styrene	1.0770	1.1645	-8.1	102	0.00
76	P	Bromoform	0.2121	0.2164	-2.0	96	0.00
77	T	Isopropylbenzene	1.7444	1.9140	-9.7	106	0.00
78	I	1,4-Dichlorobenzene-d4	1.0000	1.0000	0.0	103	0.00
79	P	1,1,2,2-Tetrachloroethane	0.5018	0.4427	11.8	89	0.00
80	S	p-Bromofluorobenzene	1.0352	1.0112	2.3	103	0.00
81	T	1,2,3-Trichloropropane	0.1545	0.1406	9.0	94	0.00
82	T	trans-1,4-Dichloro-2-Butene	0.1376	0.1346	2.2	92	0.00
83	T	n-Propylbenzene	3.9003	4.0925	-4.9	107	0.00
84	T	Bromobenzene	0.8022	0.8000	0.3	103	0.00
85	T	1,3,5-Trimethylbenzene	2.8411	3.0050	-5.8	107	0.00
86	T	2-Chlorotoluene	2.7231	2.7943	-2.6	103	0.00
87	T	4-Chlorotoluene	2.4597	2.4626	-0.1	109	0.00
88	T	a-Methylstyrene	1.3479	1.3615	-1.0	105	0.00
89	T	tert-Butylbenzene	0.5558	0.5678	-2.2	110	0.00
90	T	1,2,4-Trimethylbenzene	2.9214	3.0500	-4.4	108	0.00
91	T	sec-Butylbenzene	3.3424	3.5141	-5.1	108	0.00
92	T	p-Isopropyltoluene	2.8379	2.9979	-5.6	110	0.00
93	T	1,3-Dichlorobenzene	1.5448	1.5853	-2.6	107	0.00
94	T	1,4-Dichlorobenzene	1.5574	1.5394	1.2	105	0.00
95	T	n-Butylbenzene	2.8056	2.9521	-5.2	109	0.00
96	T	1,2-Dichlorobenzene	1.3739	1.3410	2.4	104	0.00
97	T	1,2-Dibromo-3-Chloropropane	0.1007	0.0924	8.3	92	0.00
98	T	1,2,4-Trichlorobenzene	1.0269	1.0246	0.2	104	0.00
99	T	Hexachlorobutadiene	0.4798	0.5208	-8.5	117	0.00
100	T	Naphthalene	1.5257	1.3875	9.1	92	0.00
101	T	1,2,3-Trichlorobenzene	0.8664	0.8096	6.6	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412474.D 8260WT.M Sun May 22 13:34:07 2016 Page 2

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412474.D Vial: 2
Acq On : 22 May 2016 12:59 Operator: FJB
Sample : WG569792-02 50ug/L CCV 8260 Inst : HPMS8
Misc : 1,1 STD76232 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	25.0000	25.0000	0.0	94	0.00
2	T	Dichlorodifluoromethane	50.0000	65.2138	-30.4#	117	0.00
3	P	Chloromethane	50.0000	46.9814	6.0	90	0.00
4	C	Vinyl Chloride	50.0000	54.9963	-10.0	103	0.00
5	T	1,3-Butadiene	50.0000	57.0381	-14.1	104	0.00
6	T	Bromomethane	50.0000	40.4248	19.2	79	0.00
7	T	Chloroethane	50.0000	51.8167	-3.6	99	0.00
8	T	Trichlorofluoromethane	50.0000	60.2536	-20.5	113	0.00
9	T	Diethyl ether	100.0000	90.5541	9.4	87	0.00
10	T	Isoprene	50.0000	52.1987	-4.4	100	0.00
11	T	Acrolein	50.0000	29.8206	40.4#	57	0.00
12	T	1,1,2-Trichloro-1,2,2-Trifl	50.0000	57.0444	-14.1	109	0.00
13	T	Acetone	50.0000	47.8933	4.2	86	-0.01
14	C	1,1-Dichloroethene	50.0000	56.6573	-13.3	108	0.00
15	T	Tert-Butyl Alcohol	200.0000	188.8325	5.6	89	-0.01
16	T	Dimethyl Sulfide	50.0000	49.4260	1.1	94	0.00
17	T	Iodomethane	50.0000	31.9933	36.0#	64	0.00
18	T	Methyl acetate	50.0000	47.5003	5.0	92	0.00
19	T	Methylene Chloride	50.0000	50.9759	-2.0	98	0.00
20	T	Carbon Disulfide	50.0000	53.6648	-7.3	104	0.00
21	T	Acrylonitrile	50.0000	45.9423	8.1	82	0.00
22	T	Methyl Tert Butyl Ether	50.0000	49.8939	0.2	90	0.00
23	T	trans-1,2-Dichloroethene	50.0000	54.1325	-8.3	103	0.00
24	T	n-Hexane	50.0000	55.0372	-10.1	105	0.00
25	T	Diisopropyl ether	100.0000	95.3978	4.6	90	0.00
26	T	Vinyl Acetate	50.0000	43.5904	12.8	79	0.00
27	P	1,1-Dichloroethane	50.0000	54.2497	-8.5	101	0.00
28	T	Ethyl-Tert-Butyl ether	100.0000	98.8542	1.1	91	0.00
29	T	2-Butanone	50.0000	44.5376	10.9	81	0.00
30	T	Propionitrile	100.0000	90.4462	9.6	83	0.00
31	T	2,2-Dichloropropane	50.0000	62.3063	-24.6	115	0.00
32	T	cis-1,2-Dichloroethene	50.0000	53.2153	-6.4	101	0.00
33	C	Chloroform	50.0000	55.5420	-11.1	104	0.00
34		1-Bromopropane	50.0000	56.4455	-12.9	107	0.00
35	T	Bromochloromethane	50.0000	52.9179	-5.8	99	0.00
36	T	Tetrahydrofuran	100.0000	80.6106	19.4	81	0.00
37	S	Dibromofluoromethane	25.0000	26.2240	-4.9	97	0.00
38	T	1,1,1-Trichloroethane	50.0000	60.2717	-20.5	111	0.00
39	T	Cyclohexane	50.0000	52.6964	-5.4	103	0.00
40	T	1,1-Dichloropropene	50.0000	56.2997	-12.6	105	0.00
41	T	Tert-Amyl-Methyl ether	100.0000	97.8940	2.1	91	0.00
42	T	Carbon Tetrachloride	50.0000	61.0026	-22.0	113	0.00
43	S	1,2-Dichloroethane-d4	25.0000	25.9145	-3.7	95	0.00
44		Heptane	-1.0000	0.0000	0.0	0	-2.54#
45	T	1,2-Dichloroethane	50.0000	55.9212	-11.8	102	0.00
46	T	Benzene	50.0000	53.7331	-7.5	100	0.00
47	T	Trichloroethene	50.0000	55.5683	-11.1	104	0.00
48	T	Methylcyclohexane	50.0000	55.6533	-11.3	106	0.00
49	C	1,2-Dichloropropane	50.0000	51.0961	-2.2	97	0.00
50	T	Bromodichloromethane	50.0000	55.7784	-11.6	100	0.00
51	T	1,4-Dioxane	200.0000	168.5250	15.7	75	0.00
52	T	Dibromomethane	50.0000	50.0135	-0.0	94	0.00
53	T	2-Chloroethyl Vinyl Ether	50.0000	44.6622	10.7	79	0.00
54	T	4-Methyl-2-Pentanone	50.0000	43.3705	13.3	78	0.00

(#) = Out of Range
8M412474.D 8260WT.M Sun May 22 13:34:08 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412474.D Vial: 2
Acq On : 22 May 2016 12:59 Operator: FJB
Sample : WG569792-02 50ug/L CCV 8260 Inst : HPMS8
Misc : 1,1 STD76232 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
55	T	cis-1,3-Dichloropropene	50.0000	54.1489	-8.3	97	0.00
56	T	Dimethyl Disulfide	50.0000	50.9757	-2.0	94	0.00
57	I	Chlorobenzene-d5	25.0000	25.0000	0.0	98	0.00
58	S	Toluene-d8	25.0000	25.9743	-3.9	100	0.00
59	C	Toluene	50.0000	52.1270	-4.3	102	0.00
60	T	Ethyl Methacrylate	50.0000	46.7056	6.6	87	0.00
61		Paraldehyde	-1.0000	0.0000	0.0	0	-13.14#
62	T	trans-1,3-Dichloropropene	50.0000	51.8004	-3.6	96	0.00
63	T	1,1,2-Trichloroethane	50.0000	47.2741	5.5	91	0.00
64	T	2-Hexanone	50.0000	40.2374	19.5	77	0.00
65	T	1,3-Dichloropropane	50.0000	49.0705	1.9	93	0.00
66	T	Tetrachloroethene	50.0000	54.7708	-9.5	110	0.00
67	T	Dibromochloromethane	50.0000	51.3016	-2.6	97	0.00
68	T	1,2-Dibromoethane	50.0000	49.0326	1.9	93	0.00
69	T	1-Chlorohexane	50.0000	53.6298	-7.3	107	0.00
70	P	Chlorobenzene	50.0000	51.6948	-3.4	103	0.00
71	T	1,1,1,2-Tetrachloroethane	50.0000	53.5475	-7.1	103	0.00
72	C	Ethylbenzene	50.0000	52.0481	-4.1	105	0.00
73	T	m-,p-Xylene	100.0000	106.7164	-6.7	105	0.00
74	T	o-Xylene	50.0000	52.6319	-5.3	103	0.00
75	T	Styrene	50.0000	54.0628	-8.1	102	0.00
76	P	Bromoform	50.0000	51.0145	-2.0	96	0.00
77	T	Isopropylbenzene	50.0000	54.8611	-9.7	106	0.00
78	I	1,4-Dichlorobenzene-d4	25.0000	25.0000	0.0	103	0.00
79	P	1,1,2,2-Tetrachloroethane	50.0000	44.1054	11.8	89	0.00
80	S	p-Bromofluorobenzene	25.0000	24.4213	2.3	103	0.00
81	T	1,2,3-Trichloropropane	50.0000	45.4948	9.0	94	0.00
82	T	trans-1,4-Dichloro-2-Butene	50.0000	42.8111	14.4	92	0.00
83	T	n-Propylbenzene	50.0000	52.4640	-4.9	107	0.00
84	T	Bromobenzene	50.0000	49.8575	0.3	103	0.00
85	T	1,3,5-Trimethylbenzene	50.0000	52.8843	-5.8	107	0.00
86	T	2-Chlorotoluene	50.0000	51.3078	-2.6	103	0.00
87	T	4-Chlorotoluene	50.0000	50.0587	-0.1	109	0.00
88	T	a-Methylstyrene	50.0000	50.5045	-1.0	105	0.00
89	T	tert-Butylbenzene	50.0000	51.0756	-2.2	110	0.00
90	T	1,2,4-Trimethylbenzene	50.0000	52.2012	-4.4	108	0.00
91	T	sec-Butylbenzene	50.0000	52.5694	-5.1	108	0.00
92	T	p-Isopropyltoluene	50.0000	52.8182	-5.6	110	0.00
93	T	1,3-Dichlorobenzene	50.0000	51.3136	-2.6	107	0.00
94	T	1,4-Dichlorobenzene	50.0000	49.4240	1.2	105	0.00
95	T	n-Butylbenzene	50.0000	52.6100	-5.2	109	0.00
96	T	1,2-Dichlorobenzene	50.0000	48.8040	2.4	104	0.00
97	T	1,2-Dibromo-3-Chloropropane	50.0000	45.8651	8.3	92	0.00
98	T	1,2,4-Trichlorobenzene	50.0000	49.8840	0.2	104	0.00
99	T	Hexachlorobutadiene	50.0000	54.2693	-8.5	117	0.00
100	T	Naphthalene	50.0000	45.4686	9.1	92	0.00
101	T	1,2,3-Trichlorobenzene	50.0000	46.7219	6.6	101	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
8M412474.D 8260WT.M Sun May 22 13:34:08 2016 Page 2

Quantitation Report (Not Reviewed)

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412475.D Vial: 3
Acq On : 22 May 2016 13:28 Operator: FJB
Sample : WG569793-01 100ug/L CCV A9 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 08:18:28 2016 Quant Results File: 8260WT.RES

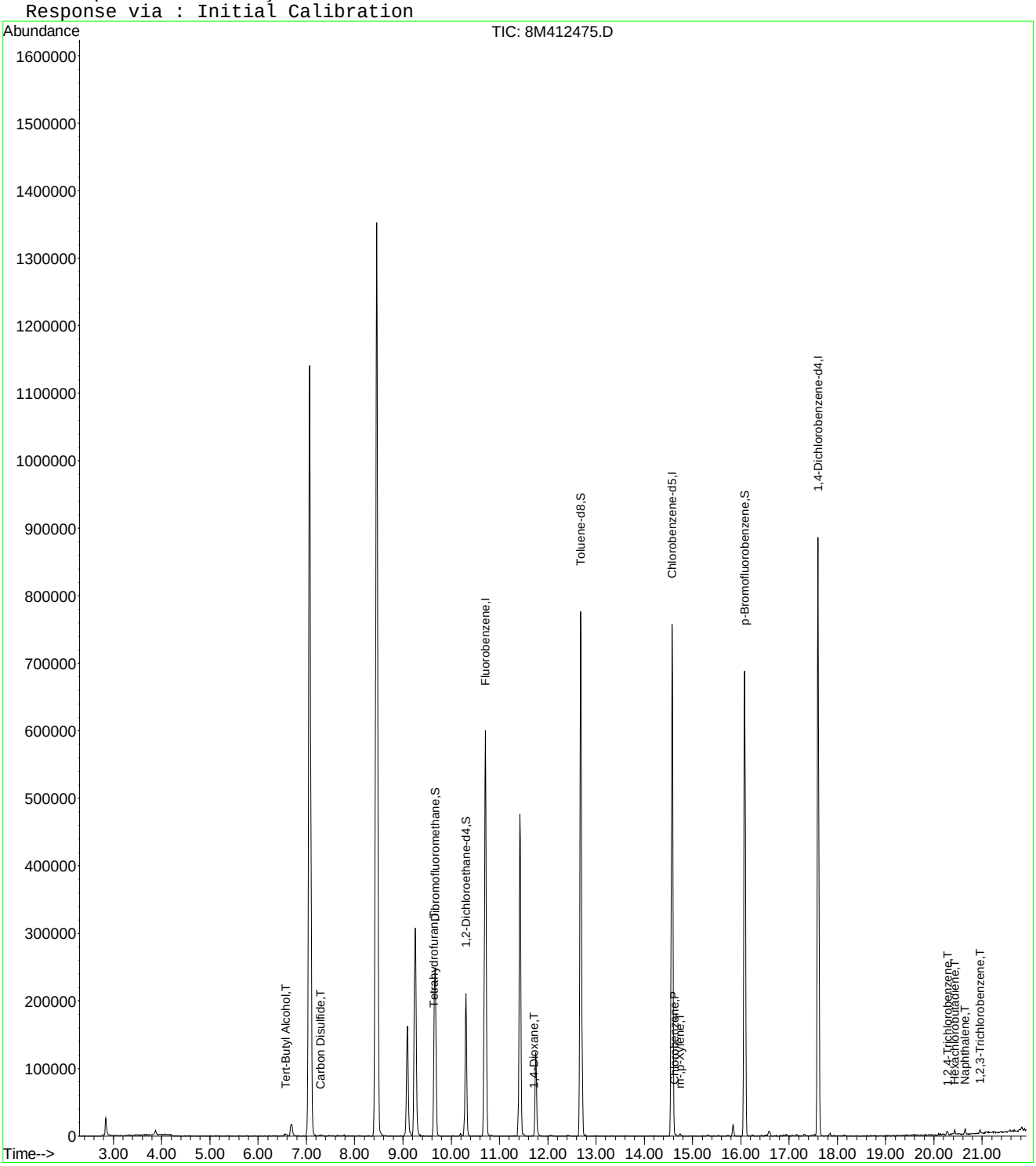
Quant Method : K:\ORGANICS\V...\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration
DataAcq Meth : 8260WT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	10.71	96	732150	25.00	ug/L	0.00
57) Chlorobenzene-d5	14.57	117	540224	25.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	17.60	152	293447	25.00	ug/L	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	9.66	111	210211	26.7229	ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 106.88%			
43) 1,2-Dichloroethane-d4	10.30	65	219040	25.9690	ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 103.88%			
58) Toluene-d8	12.68	98	736114	26.0361	ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 104.16%			
80) p-Bromofluorobenzene	16.08	95	299325	24.6342	ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.52%			
Target Compounds						Qvalue
15) Tert-Butyl Alcohol	6.57	59	4793	18.1572	ug/L #	40
20) Carbon Disulfide	7.30	76	3756	0.1516	ug/L #	74
36) Tetrahydrofuran	9.64	42	1286	1.6133	ug/L #	24
51) 1,4-Dioxane	11.71	88	578	17.1866	ug/L	76
70) Chlorobenzene	14.62	112	2927	0.1294	ug/L #	1
73) m-,p-Xylene	14.74	106	1844	0.1271	ug/L	92
98) 1,2,4-Trichlorobenzene	20.28	180	2389	0.1982	ug/L	93
99) Hexachlorobutadiene	20.43	225	2363	0.4196	ug/L	89
100) Naphthalene	20.64	128	10043	0.5608	ug/L	91
101) 1,2,3-Trichlorobenzene	20.96	180	2251	0.2213	ug/L	97

(#) = qualifier out of range (m) = manual integration
8M412475.D 8260WT.M Mon May 23 08:18:30 2016 Page 1

Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412475.D Vial: 3
Acq On : 22 May 2016 13:28 Operator: FJB
Sample : WG569793-01 100ug/L CCV A9 Inst : HPMS8
Misc : 1,1 STD76072 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 8:17 2016 Quant Results File: 8260WT.RES

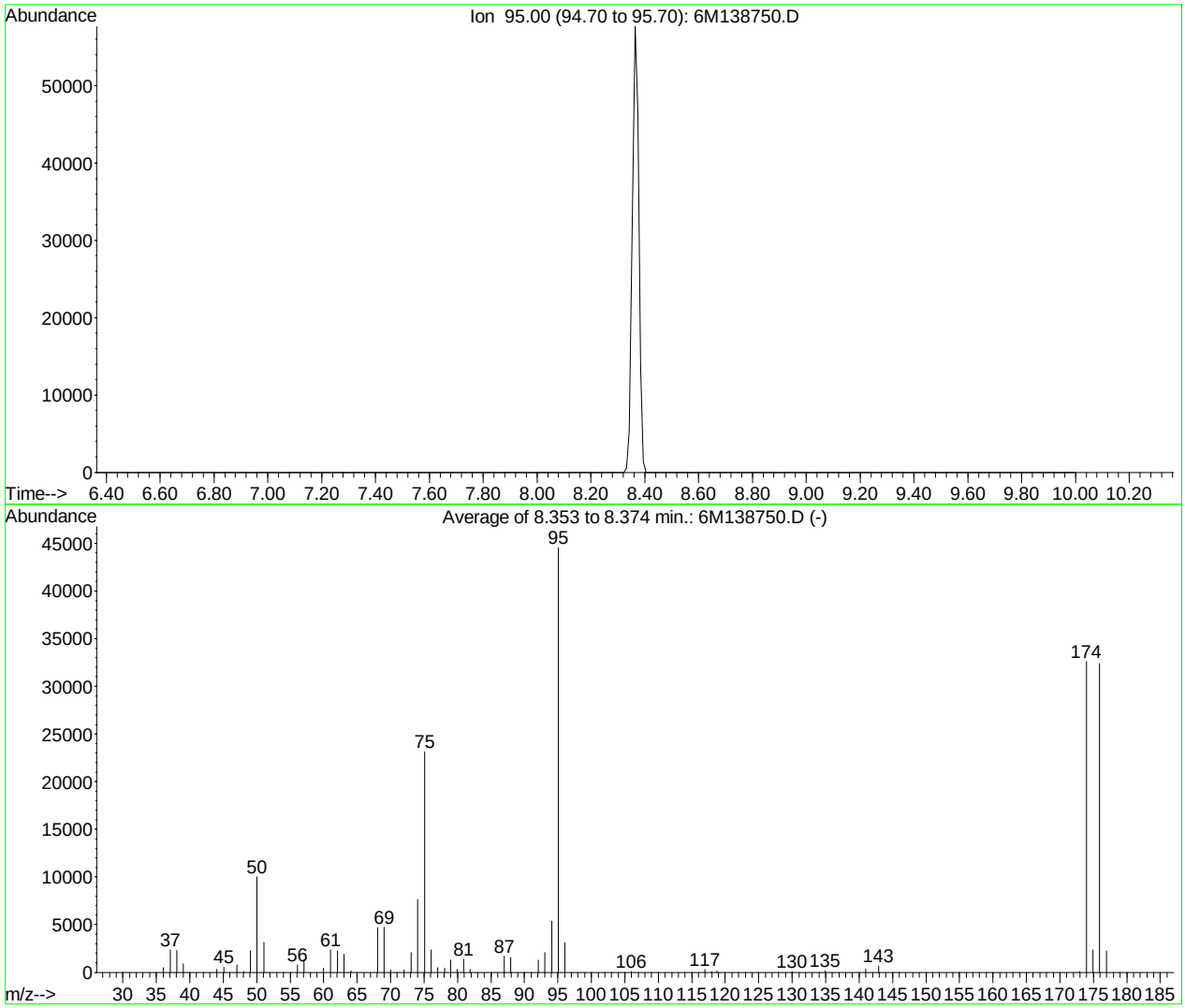
Method : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
Last Update : Sat May 14 18:08:06 2016
Response via : Initial Calibration



2.1.1.5 Raw QC Data

BFB

Data File : C:\MSDCHEM\1\DATA\042416\6M138750.D Vial: 1
Acq On : 24 Apr 2016 16:33 Operator: JDS
Sample : WG566155-01 50ng BFB 826-A9 Inst : HPMS6
Misc : 1,1 STD75485 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
Title : SOP: OVL MSV01



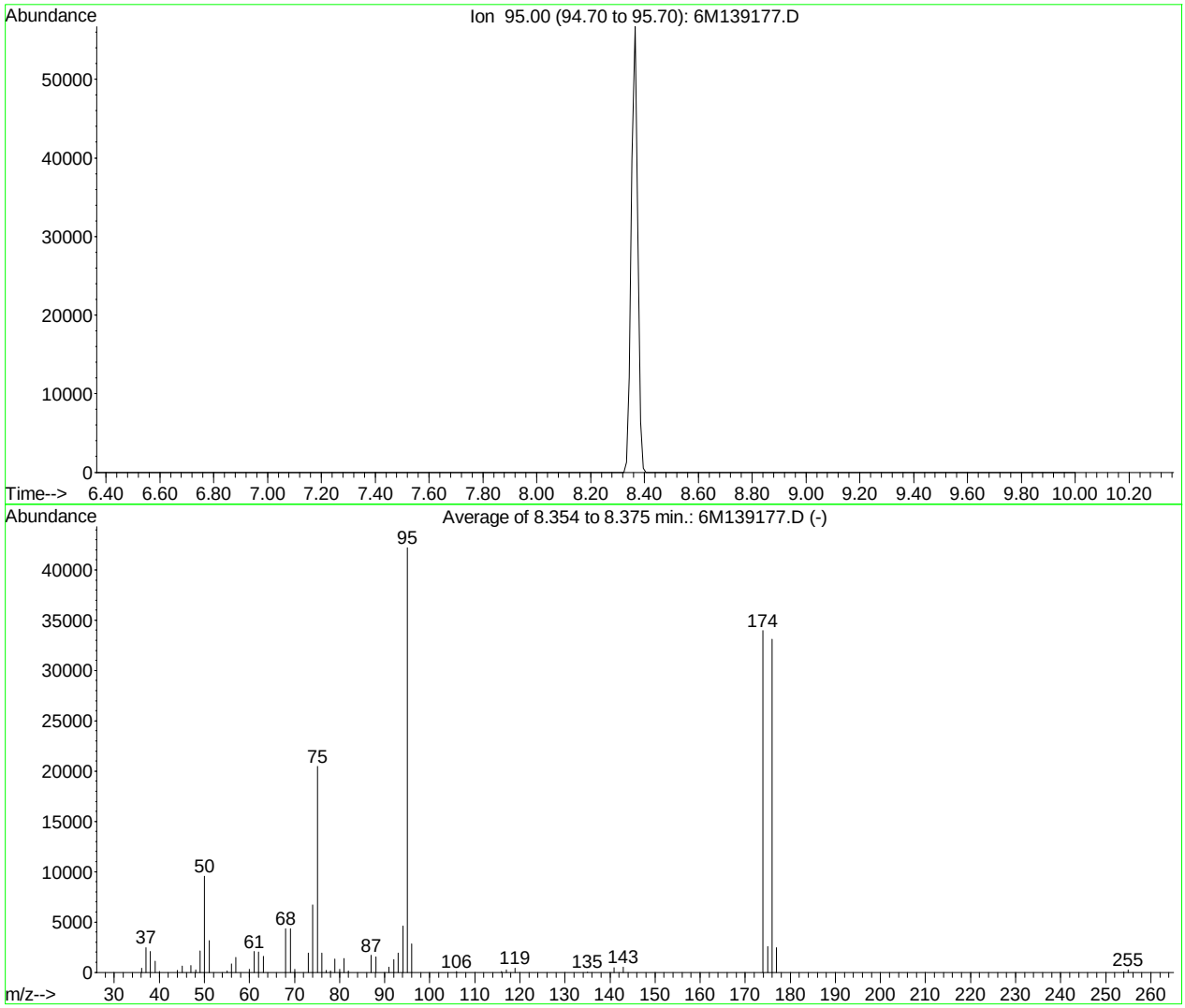
AutoFind: Scans 320, 321, 322; Background Corrected with Scan 315

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	10010	PASS
75	95	30	60	52.0	23152	PASS
95	95	100	100	100.0	44552	PASS
96	95	5	9	6.9	3085	PASS
173	174	0.00	2	0.3	113	PASS
174	95	50	100	73.2	32632	PASS
175	174	5	9	7.2	2336	PASS
176	174	95	101	99.2	32384	PASS
177	176	5	9	7.0	2251	PASS

6M138750.D BFB.M Mon Apr 25 09:21:54 2016

BFB

```
Data File : C:\MSDCHEM\1\DATA\051116\6M139177.D          Vial: 1
Acq On    : 11 May 2016  10:08                    Operator: TMB
Sample    : WG568265-01 50ng BFB STD 8260         Inst    : HPMS6
Misc      : 1,1 STD76034                          Multiplr: 1.00
MS Integration Params: rteint.p
Method    : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
Title     : SOP: OVL MSV01
```



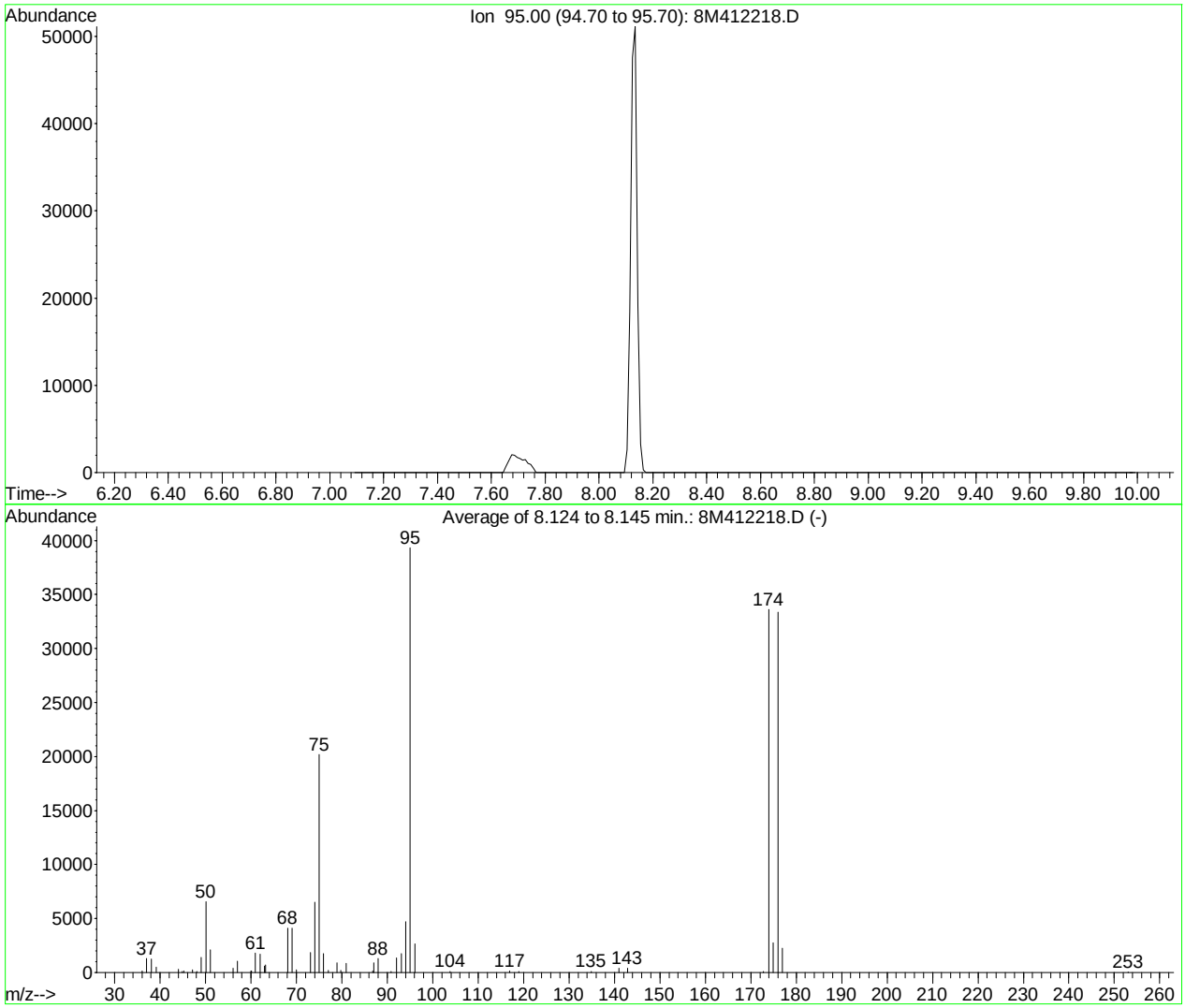
AutoFind: Scans 320, 321, 322; Background Corrected with Scan 315

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.6	9547	PASS
75	95	30	60	48.4	20449	PASS
95	95	100	100	100.0	42216	PASS
96	95	5	9	6.7	2828	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	80.4	33962	PASS
175	174	5	9	7.4	2530	PASS
176	174	95	101	97.5	33112	PASS
177	176	5	9	7.4	2439	PASS

6M139177.D BFB.M Wed May 11 10:27:08 2016

BFB

Data File : C:\MSDCHEM\2\DATA\051316\8M412218.D Vial: 3
Acq On : 13 May 2016 12:36 Operator: TMB
Sample : WG568561-01 50ng BFB STD 8260 Inst : HPMS8
Misc : 1,1 STD76034 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\2\METHODS\BFB.M (RTE Integrator)
Title : SOP:OVL MSV01

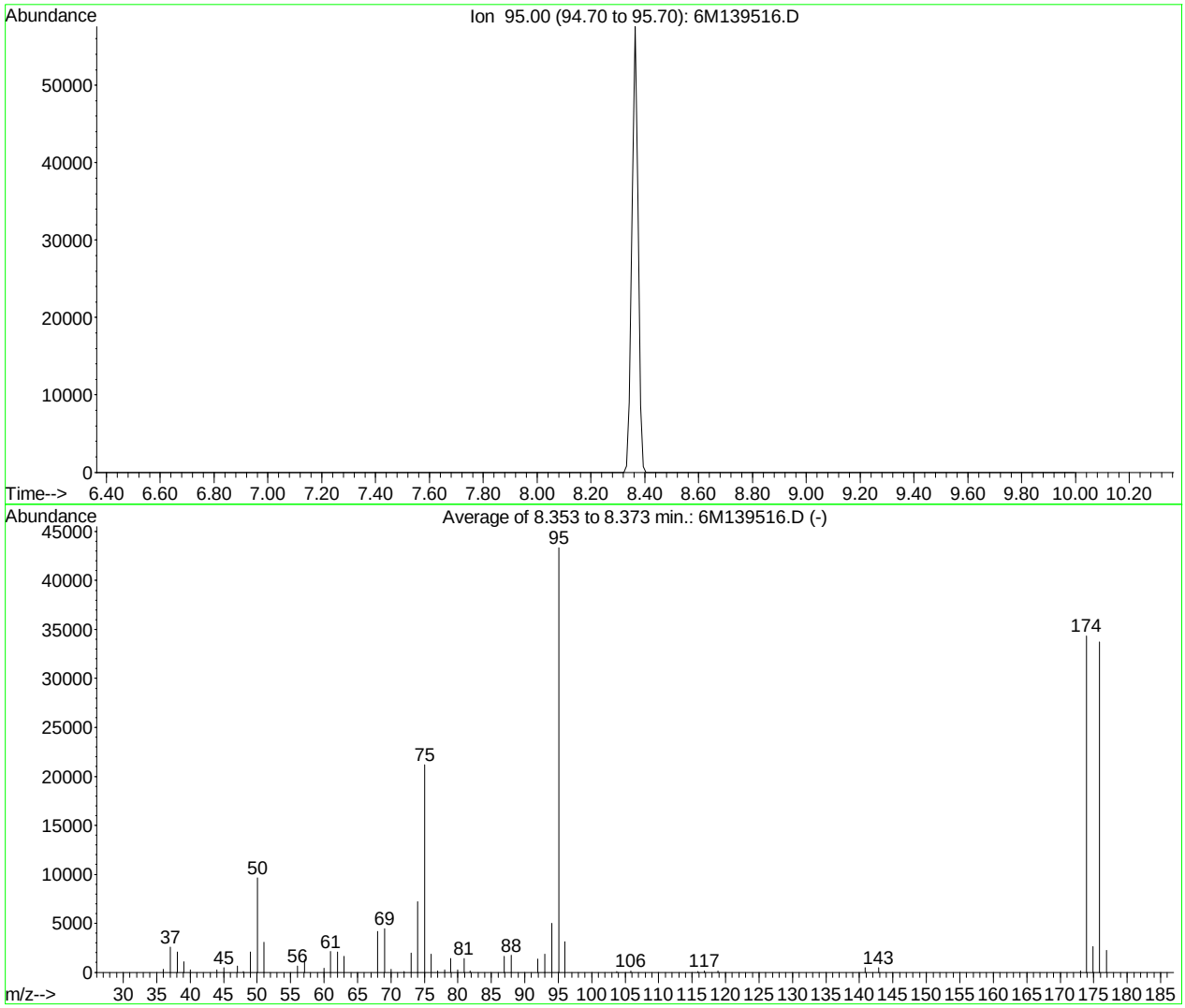


AutoFind: Scans 102, 103, 104; Background Corrected with Scan 97

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	6575	PASS
75	95	30	60	51.3	20171	PASS
95	95	100	100	100.0	39312	PASS
96	95	5	9	6.7	2649	PASS
173	174	0.00	2	0.4	122	PASS
174	95	50	100	85.5	33616	PASS
175	174	5	9	8.2	2746	PASS
176	174	95	101	99.2	33360	PASS
177	176	5	9	6.8	2267	PASS

8M412218.D BFB.M Fri May 13 12:47:24 2016

Data File : C:\MSDCHEM\1\DATA\052216\6M139516.D Vial: 1
Acq On : 22 May 2016 12:24 Operator: FJB
Sample : WG569795-01 BFB 50ng 8260 Inst : HPMS6
Misc : 1,1 STD76034 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6



AutoFind: Scans 320, 321, 322; Background Corrected with Scan 315

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.2	9631	PASS
75	95	30	60	48.8	21173	PASS
95	95	100	100	100.0	43354	PASS
96	95	5	9	7.2	3103	PASS
173	174	0.00	2	0.5	163	PASS
174	95	50	100	79.3	34360	PASS
175	174	5	9	7.6	2611	PASS
176	174	95	101	98.1	33712	PASS
177	176	5	9	6.6	2214	PASS

6M139516.D 8260WTR.M Sun May 22 13:31:20 2016

```
Data File : K:\ORGANICS\VOLATILE\HPMS8\DATA\052216\8M412473.D Vial: 1
Acq On    : 22 May 2016  12:36                      Operator: FJB
Sample    : WG569792-01 BFB 50ng 8260               Inst    : HPMS8
Misc      : 1,1 STD76034                            Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : K:\ORGANICS\VOLATILE\HPMS8\METHODS\8260WT.M (RTE Integrator)
Title     : Method 8260B/624 WTR-SOP:OVLMSV01 05-13-16 HPMS 8
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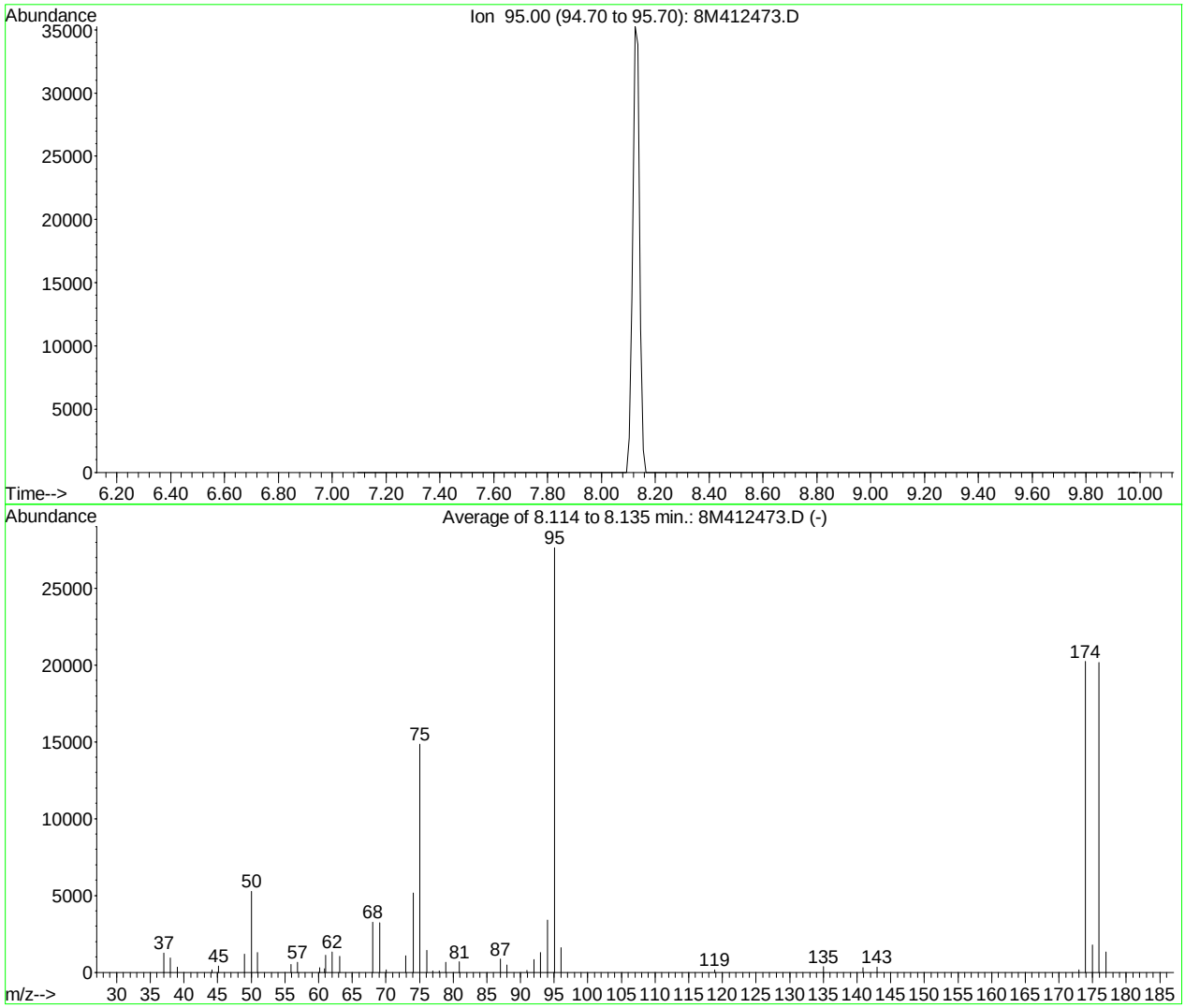


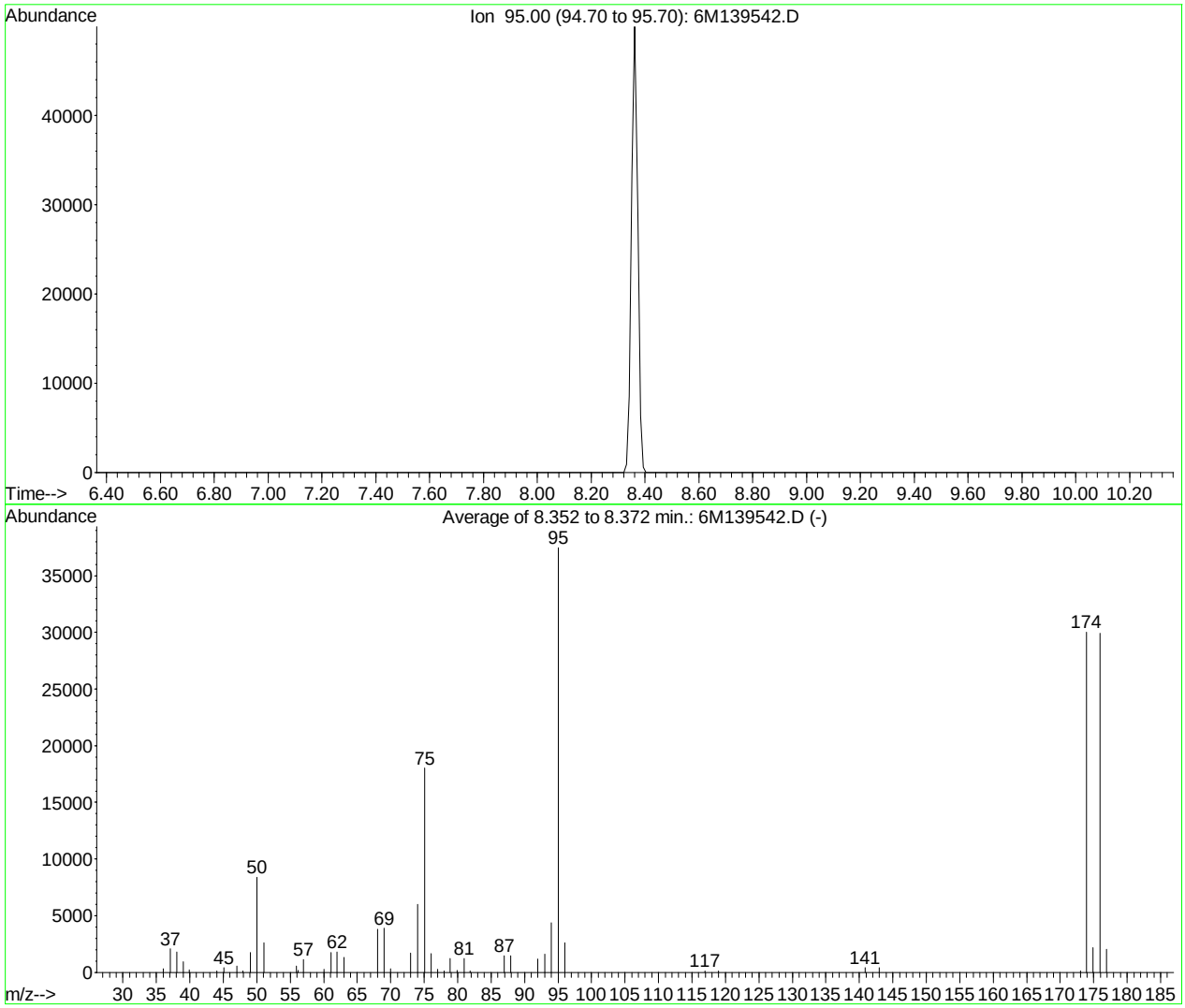
AutoFind: Scans 101, 102, 103; Background Corrected with Scan 97

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.1	5272	PASS
75	95	30	60	53.8	14858	PASS
95	95	100	100	100.0	27642	PASS
96	95	5	9	5.8	1600	PASS
173	174	0.00	2	0.7	143	PASS
174	95	50	100	73.2	20230	PASS
175	174	5	9	8.8	1774	PASS
176	174	95	101	99.7	20179	PASS
177	176	5	9	6.6	1328	PASS

8M412473.D 8260WT.M Sun May 22 13:33:56 2016

BFB

Data File : C:\MSDCHEM\1\DATA\052316\6M139542.D Vial: 1
Acq On : 23 May 2016 9:43 Operator: TMB
Sample : WG569851-01 50ng BFB STD 8260 Inst : HPMS6
Misc : 1,1 STD76034 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\MSDCHEM\1\METHODS\BFB.M (RTE Integrator)
Title : SOP: OVL MSV01



AutoFind: Scans 320, 321, 322; Background Corrected with Scan 315

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.3	8373	PASS
75	95	30	60	48.1	18012	PASS
95	95	100	100	100.0	37480	PASS
96	95	5	9	6.9	2583	PASS
173	174	0.00	2	0.4	114	PASS
174	95	50	100	80.1	30010	PASS
175	174	5	9	7.3	2177	PASS
176	174	95	101	99.7	29914	PASS
177	176	5	9	6.7	2017	PASS

6M139542.D BFB.M Mon May 23 10:03:05 2016

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052216\6M139520.D Vial: 5
Acq On : 22 May 2016 14:29 Operator: FJB
Sample : WG569796-01 VBLK0522 BLANK 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 08:36:48 2016 Quant Results File: 8260WTR.RES

Quant Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration
DataAcq Meth : 8260WTR

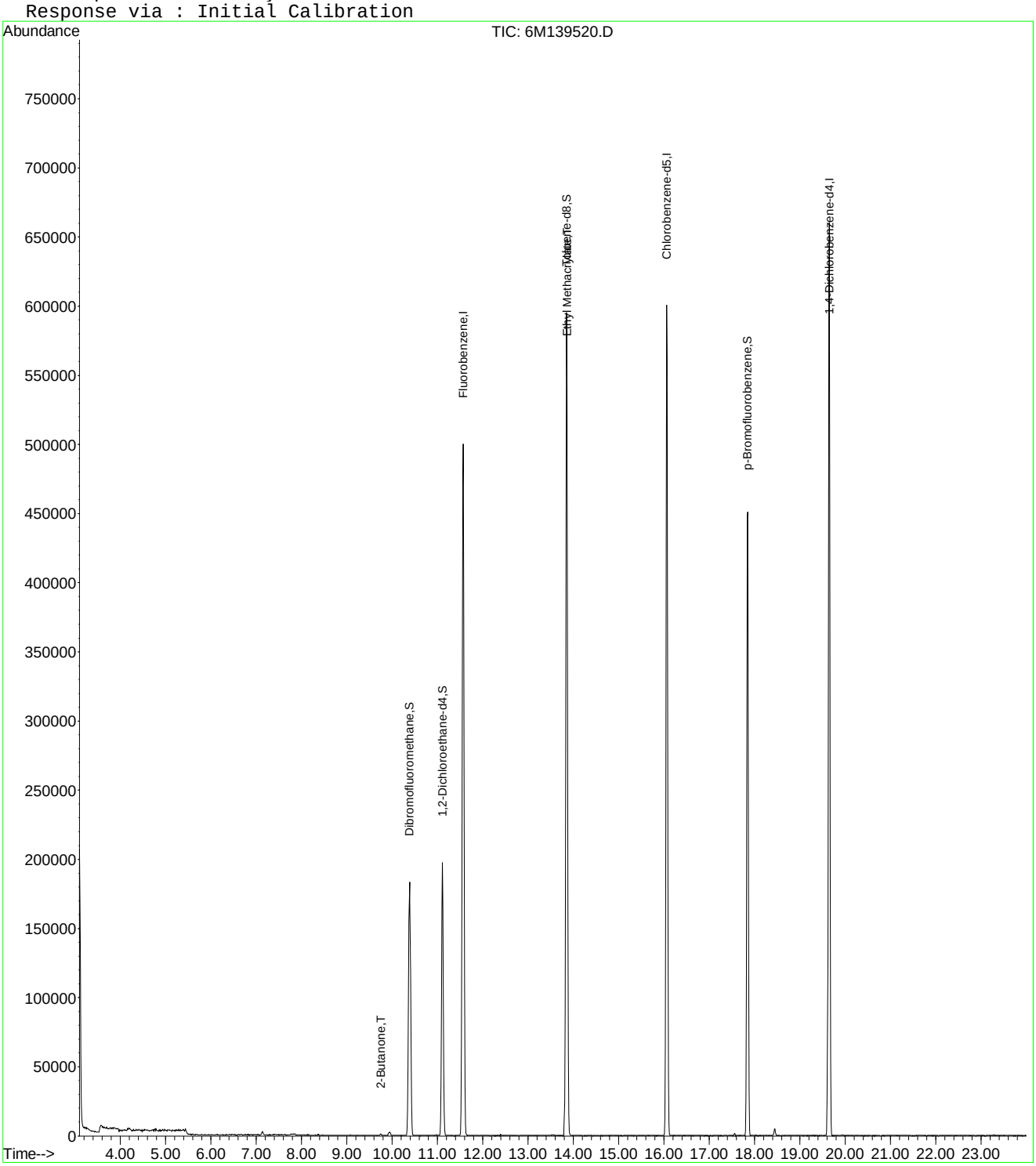
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	11.57	96	642537	25.00 ug/L	0.00
57) Chlorobenzene-d5	16.06	117	467312	25.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	19.65	152	241136	25.00 ug/L	0.00
System Monitoring Compounds					
37) Dibromofluoromethane	10.38	111	168346	24.9585 ug/L	0.00
Spiked Amount 25.000	Range 86 - 118		Recovery = 99.84%		
43) 1,2-Dichloroethane-d4	11.11	65	182207	24.2536 ug/L	0.00
Spiked Amount 25.000	Range 80 - 120		Recovery = 97.00%		
58) Toluene-d8	13.85	98	561982	24.4358 ug/L	0.00
Spiked Amount 25.000	Range 88 - 110		Recovery = 97.76%		
80) p-Bromofluorobenzene	17.84	95	219341	24.5389 ug/L	0.00
Spiked Amount 25.000	Range 86 - 115		Recovery = 98.16%		
Target Compounds					Qvalue
13) Acetone	6.66	43	460	Below Cal	# 48
29) 2-Butanone	9.75	43	1756	0.6022 ug/L	# 57
36) Tetrahydrofuran	10.35	42	2579	Below Cal	# 60
60) Ethyl Methacrylate	13.86	69	1091	0.1355 ug/L	# 51

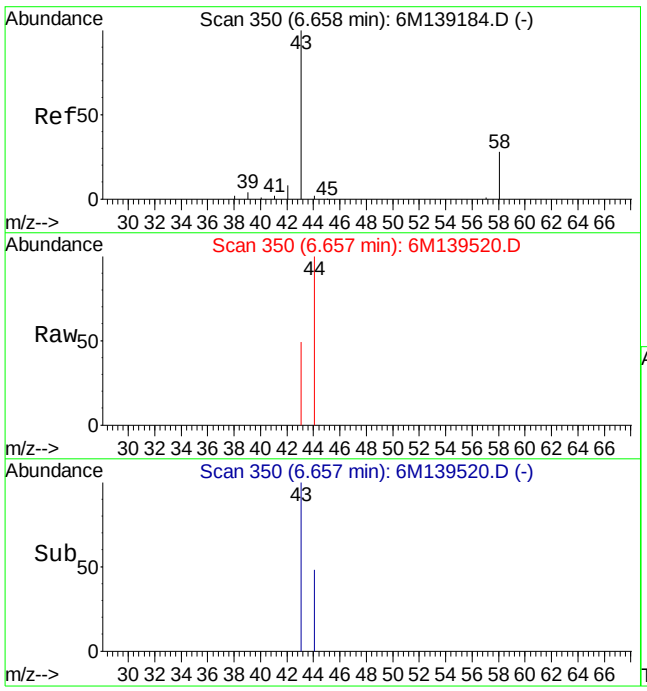
(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\MSDCHEM\1\DATA\052216\6M139520.D Vial: 5
Acq On : 22 May 2016 14:29 Operator: FJB
Sample : WG569796-01 VBLK0522 BLANK 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 23 8:36 2016 Quant Results File: 8260WTR.RES

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Last Update : Thu May 12 12:57:41 2016
Response via : Initial Calibration

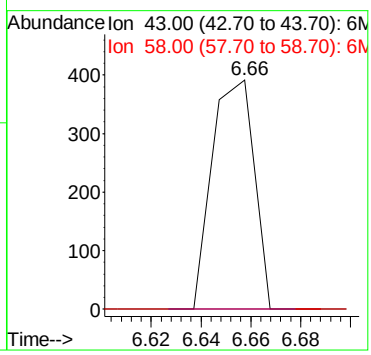


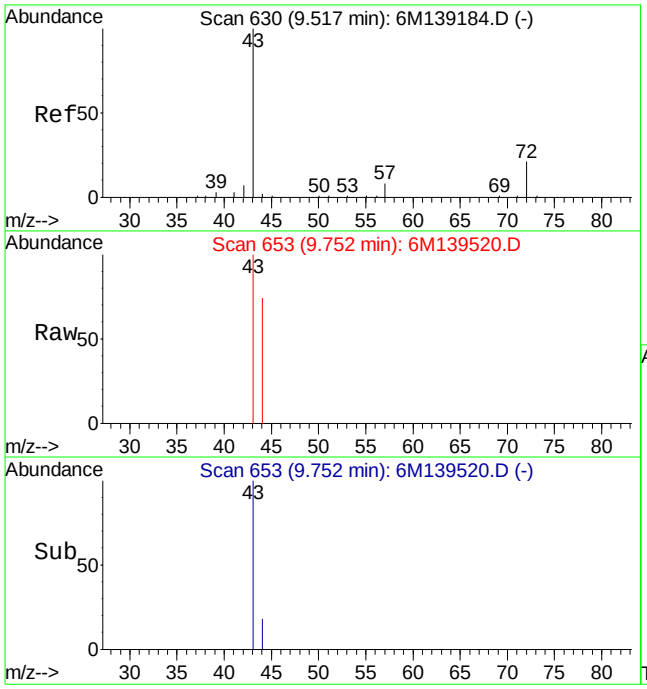


#13
Acetone
Concen: Below Cal
RT: 6.66 min Scan# 350
Delta R.T. -0.00 min
Lab File: 6M139520.D
Acq: 22 May 2016 14:29

Tgt Ion: 43 Resp: 460

Ion	Ratio	Lower	Upper
43	100		
58	0.0	16.4	38.2#

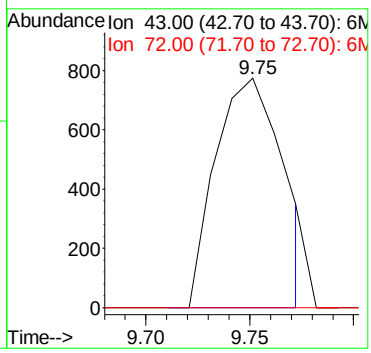


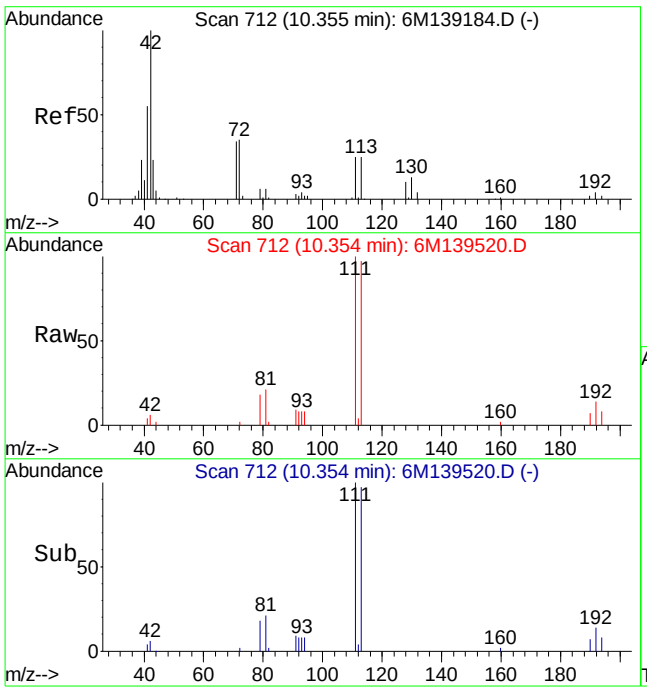


#29
2-Butanone
Concen: 0.60 ug/L
RT: 9.75 min Scan# 653
Delta R.T. 0.23 min
Lab File: 6M139520.D
Acq: 22 May 2016 14:29

Tgt Ion: 43 Resp: 1756

Ion	Ratio	Lower	Upper
43	100		
72	0.0	11.9	27.9#

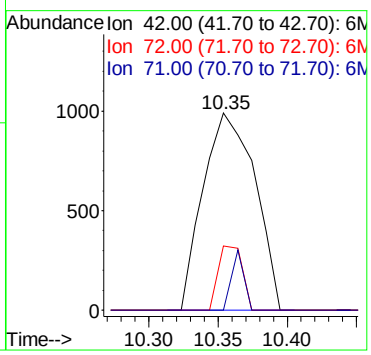


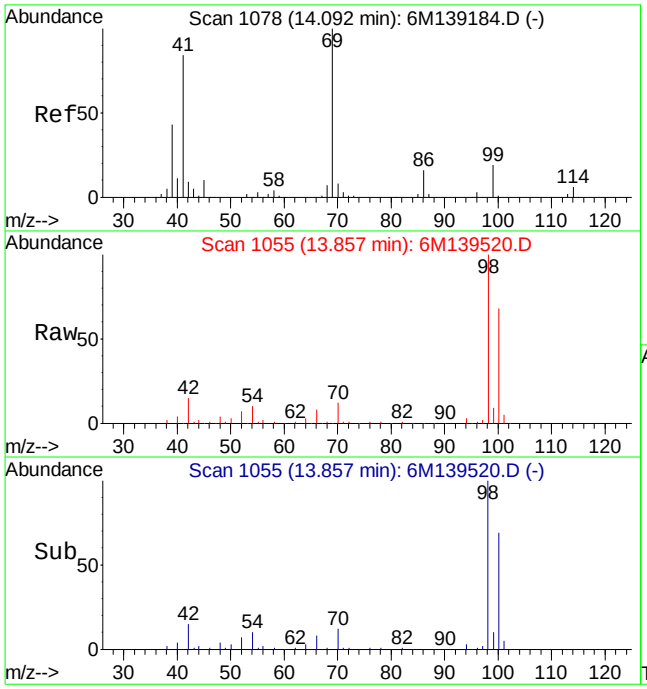


#36
Tetrahydrofuran
Concen: Below Cal
RT: 10.35 min Scan# 712
Delta R.T. -0.00 min
Lab File: 6M139520.D
Acq: 22 May 2016 14:29

Tgt Ion: 42 Resp: 2579

Ion	Ratio	Lower	Upper
42	100		
72	15.0	20.8	48.4#
71	7.2	19.9	46.5#

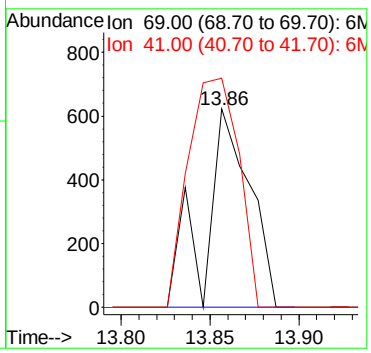




#60
Ethyl Methacrylate
Concen: 0.14 ug/L
RT: 13.86 min Scan# 1055
Delta R.T. -0.24 min
Lab File: 6M139520.D
Acq: 22 May 2016 14:29

Tgt Ion: 69 Resp: 1091

Ion	Ratio	Lower	Upper
69	100		
41	130.6	51.4	120.0#



LSC Area Percent Report

Data File : C:\MSDCHEM\1\DATA\052216\6M139520.D Vial: 5
Acq On : 22 May 2016 14:29 Operator: FJB
Sample : WG569796-01 VBLK0522 BLANK 8260 Inst : HPMS6
Misc : 1,1 Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title : 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

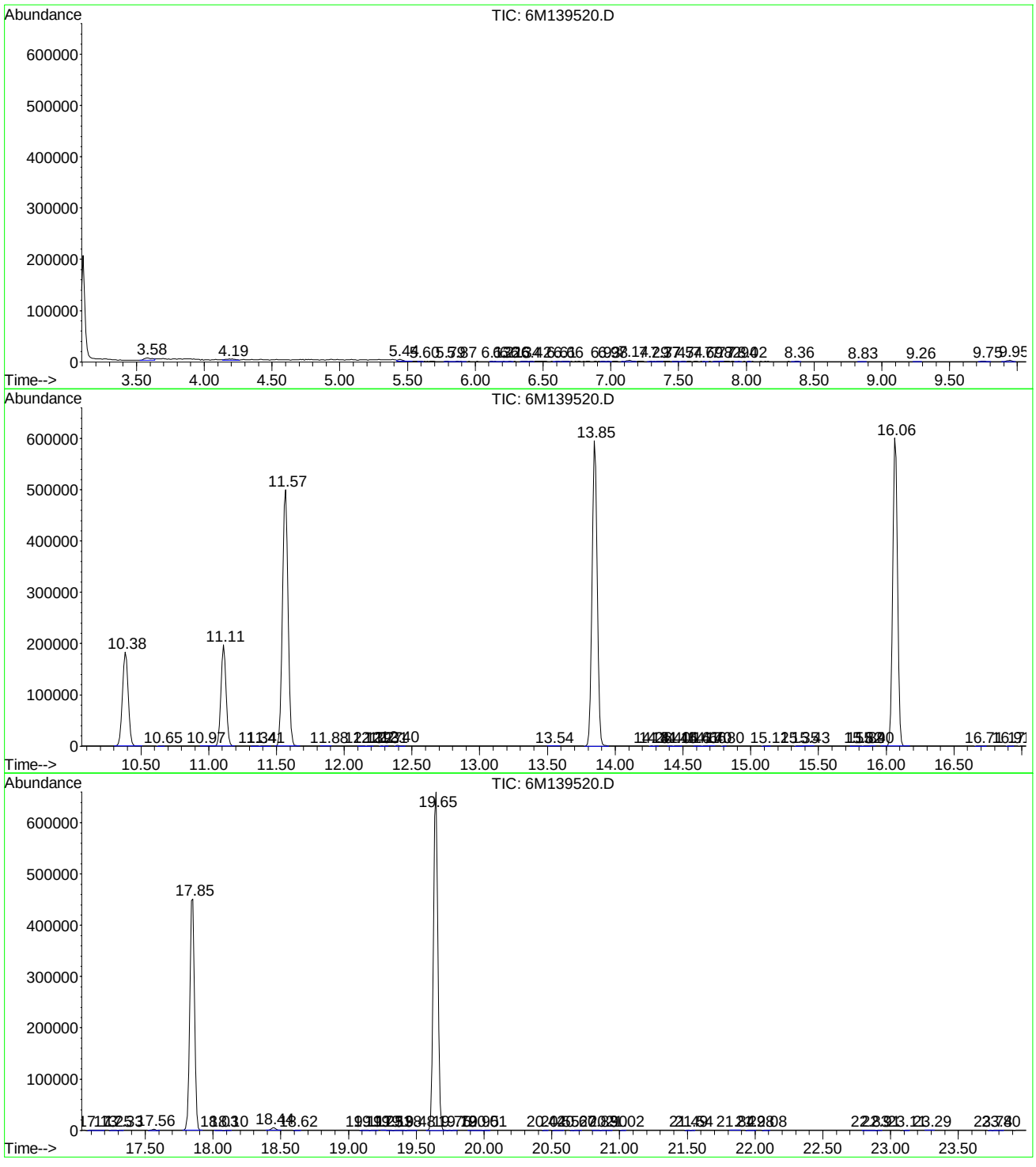
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.584	43	49	54	rBV4	4792	21853	1.38%	0.261%
2	4.186	103	108	115	rVB4	2337	8830	0.56%	0.106%
3	5.442	229	231	240	rVB2	3916	9494	0.60%	0.114%
4	5.595	244	246	248	rVB	545	586	0.04%	0.007%
5	5.789	263	265	270	rVB	494	981	0.06%	0.012%
6	5.871	270	273	279	rVV	439	882	0.06%	0.011%
7	6.126	296	298	304	rVB	461	1065	0.07%	0.013%
8	6.208	304	306	309	rVV	298	529	0.03%	0.006%
9	6.259	309	311	313	rVB	423	599	0.04%	0.007%
10	6.341	318	319	324	rBV2	566	1446	0.09%	0.017%
11	6.423	324	327	328	rVB2	485	828	0.05%	0.010%
12	6.606	342	345	347	rBV	606	1402	0.09%	0.017%
13	6.657	348	350	354	rVB2	541	1393	0.09%	0.017%
14	6.933	376	377	380	rBV	429	632	0.04%	0.008%
15	6.984	380	382	384	rBV	448	795	0.05%	0.010%
16	7.137	391	397	402	rBV	2391	6128	0.39%	0.073%
17	7.291	410	412	414	rVB	618	750	0.05%	0.009%
18	7.372	414	420	421	rBV2	641	2017	0.13%	0.024%
19	7.474	428	430	433	rVB	562	1229	0.08%	0.015%
20	7.536	433	436	438	rBV2	528	1343	0.09%	0.016%
21	7.689	450	451	454	rBV2	360	780	0.05%	0.009%
22	7.770	457	459	462	rBV2	479	727	0.05%	0.009%
23	7.822	462	464	465	rBV	444	649	0.04%	0.008%
24	7.944	473	476	478	rVB	382	846	0.05%	0.010%
25	8.016	482	483	485	rBV	390	532	0.03%	0.006%
26	8.363	514	517	521	rVV	556	1258	0.08%	0.015%
27	8.832	562	563	568	rBV	216	536	0.03%	0.006%
28	9.261	602	605	608	rBV	224	617	0.04%	0.007%
29	9.752	649	653	658	rVB	951	2130	0.13%	0.025%
30	9.946	666	672	676	rBV2	2425	6784	0.43%	0.081%
31	10.385	707	715	727	rVB	183284	542367	34.37%	6.485%
32	10.650	738	741	743	rBV	543	1388	0.09%	0.017%
33	10.967	769	772	778	rVV	343	683	0.04%	0.008%
34	11.110	778	786	794	rVB	197238	521666	33.05%	6.238%
35	11.344	806	809	812	rVB	478	1252	0.08%	0.015%
36	11.406	812	815	820	rBV	475	2065	0.13%	0.025%
37	11.569	823	831	841	rVV	500227	1438448	91.14%	17.200%
38	11.875	856	861	864	rVB	223	705	0.04%	0.008%
39	12.131	883	886	889	rVB	570	1492	0.09%	0.018%
40	12.192	889	892	894	rBV	450	1259	0.08%	0.015%
41	12.274	899	900	902	rBB	462	507	0.03%	0.006%
42	12.315	902	904	905	rBV	449	676	0.04%	0.008%

43	12.396	910	912	917	rBV	1193	2926	0.19%	0.035%
44	13.540	1020	1024	1029	rBV	482	1124	0.07%	0.013%
45	13.846	1047	1054	1064	rBV	595543	1578200	100.00%	18.871%
46	14.265	1094	1095	1097	rBB	527	532	0.03%	0.006%
47	14.306	1097	1099	1100	rBV	499	748	0.05%	0.009%
48	14.398	1107	1108	1111	rVB	475	811	0.05%	0.010%
49	14.449	1111	1113	1117	rBV	455	1435	0.09%	0.017%
50	14.612	1126	1129	1132	rVB	500	1308	0.08%	0.016%
51	14.663	1132	1134	1136	rBV	390	874	0.06%	0.010%
52	14.704	1136	1138	1141	rVV	239	514	0.03%	0.006%
53	14.796	1146	1147	1149	rBV	445	750	0.05%	0.009%
54	15.123	1175	1179	1181	rBV	429	1401	0.09%	0.017%
55	15.347	1199	1201	1205	rBV	456	1468	0.09%	0.018%
56	15.429	1205	1209	1213	rVV	266	885	0.06%	0.011%
57	15.817	1239	1247	1248	rVB	467	2059	0.13%	0.025%
58	15.838	1248	1249	1253	rBV	456	1180	0.07%	0.014%
59	15.899	1253	1255	1257	rVV	373	689	0.04%	0.008%
60	16.062	1261	1271	1282	rVV	600650	1494274	94.68%	17.867%
61	16.706	1329	1334	1337	rBV	481	2121	0.13%	0.025%
62	16.910	1352	1354	1357	rBV	444	1159	0.07%	0.014%
63	17.022	1361	1365	1369	rBB	410	1517	0.10%	0.018%
64	17.134	1370	1376	1382	rBV	442	2868	0.18%	0.034%
65	17.247	1386	1387	1392	rBB	412	1110	0.07%	0.013%
66	17.328	1392	1395	1396	rBV	430	927	0.06%	0.011%
67	17.563	1414	1418	1422	rBV2	1892	4311	0.27%	0.052%
68	17.849	1439	1446	1453	rVB	451105	1089211	69.02%	13.024%
69	18.033	1462	1464	1468	rVB	739	1400	0.09%	0.017%
70	18.104	1469	1471	1474	rBV	523	1199	0.08%	0.014%
71	18.441	1499	1504	1510	rVB2	4749	10806	0.68%	0.129%
72	18.615	1519	1521	1524	rBV	477	1194	0.08%	0.014%
73	19.105	1567	1569	1574	rBB	497	1580	0.10%	0.019%
74	19.166	1574	1575	1580	rBV	463	1345	0.09%	0.016%
75	19.248	1582	1583	1586	rVV	443	760	0.05%	0.009%
76	19.309	1586	1589	1591	rVB	725	1153	0.07%	0.014%
77	19.381	1591	1596	1600	rBB	444	1859	0.12%	0.022%
78	19.483	1600	1606	1608	rBV	433	1864	0.12%	0.022%
79	19.646	1615	1622	1630	rVB	660621	1528930	96.88%	18.281%
80	19.749	1630	1632	1633	rBB	487	593	0.04%	0.007%
81	19.789	1633	1636	1637	rBV	433	926	0.06%	0.011%
82	19.953	1645	1652	1656	rVB	855	3121	0.20%	0.037%
83	20.014	1656	1658	1661	rBV	459	1185	0.08%	0.014%
84	20.443	1699	1700	1703	rBV	445	934	0.06%	0.011%
85	20.545	1706	1710	1714	rBV	505	1971	0.12%	0.024%
86	20.668	1719	1722	1727	rBV	428	1602	0.10%	0.019%
87	20.831	1735	1738	1741	rVB	526	1291	0.08%	0.015%
88	20.902	1741	1745	1749	rBV	443	1906	0.12%	0.023%
89	21.025	1755	1757	1759	rBV	462	1045	0.07%	0.012%
90	21.495	1802	1803	1806	rBB	381	647	0.04%	0.008%
91	21.536	1806	1807	1809	rBV	446	709	0.04%	0.008%
92	21.842	1834	1837	1842	rBV	173	491	0.03%	0.006%
93	21.985	1846	1851	1853	rBV	476	1615	0.10%	0.019%
94	22.077	1858	1860	1863	rBV	477	1212	0.08%	0.014%
95	22.832	1930	1934	1940	rVB	523	2187	0.14%	0.026%
96	22.914	1940	1942	1944	rBV	429	894	0.06%	0.011%
97	23.108	1960	1961	1964	rBV	454	974	0.06%	0.012%
98	23.292	1975	1979	1982	rVB2	482	1018	0.06%	0.012%
99	23.741	2021	2023	2024	rBB2	463	502	0.03%	0.006%
100	23.802	2024	2029	2032	rBV	450	1845	0.12%	0.022%

Sum of corrected areas: 8363309

LSC Report - Integrated Chromatogram

File : C:\MSDCHEM\1\DATA\052216\6M139520.D
Operator : FJB
Acquired : 22 May 2016 14:29 using AcqMethod 8260WTR
Instrument : HPMS6
Sample Name: WG569796-01 VBLK0522 BLANK 8260
Misc Info : 1,1
Vial Number: 5
Quant File :8260WTR.RES (RTE Integrator)



Tentatively Identified Compound (LSC) summary

Operator ID: FJB Date Acquired: 22 May 2016 14:29
Data File: C:\MSDCHEM\1\DATA\052216\6M139520.D
Name: WG569796-01 VBLK0522 BLANK 8260
Misc: 1,1
Method: C:\MSDCHEM\1\METHODS\8260WTR.M (RTE Integrator)
Title: 8260B/624_WATER SOP:MSV01 05-11-16 - HPMS6
Library Searched: C:\DATABASE\NIST02.L

						Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc