SGS ACCUTEST IS PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

e-Hardcopy 2.0
Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, Humacao, PR

SM04.00.06

SGS Accutest Job Number: FA33788

Sampling Dates: 04/11/16 - 05/09/16

Report to:

Anderson, Mulholland & Associates
2700 Westchester Avenue Suite 417
Purchase, NY 10577
roreilly@amaiconsult.com; ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: 505

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Norm Farmer
Technical Director

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001)
DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177),
AK, AR, GA, KY, MA, NV, OK, UT, WA

This report shall not be reproduced, except in its entirety, without the written approval of SGS Accutest.
Test results relate only to samples analyzed.

SGS Accutest is the sole authority for authorizing edits or modifications to this document.
Unauthorized modification of this report is strictly prohibited.

Table of Contents

-1-

Section 1: Sample Summary **3**
Section 2: Case Narrative/Conformance Summary **4**
Section 3: Summary of Hits **5**
Section 4: Sample Results **7**
- **4.1:** FA33788-1: RA6-GWD 8
- **4.2:** FA33788-2: BPEB-15 10
- **4.3:** FA33788-3: RA-6 (6-7) 12
- **4.4:** FA33788-4: RA5-GWS 14
- **4.5:** FA33788-5: S-41S 16
- **4.6:** FA33788-6: S-41SD 18
- **4.7:** FA33788-7: RA-5 (5.5-6.5) 20
- **4.8:** FA33788-8: RA-5 (9-10) 22
- **4.9:** FA33788-9: TB050916 24

Section 5: Misc. Forms **26**
- **5.1:** Chain of Custody 27

Section 6: GC/MS Volatiles - QC Data Summaries **30**
- **6.1:** Method Blank Summary 31
- **6.2:** Blank Spike Summary 35
- **6.3:** Matrix Spike/Matrix Spike Duplicate Summary 39
- **6.4:** Instrument Performance Checks (BFB) 43
- **6.5:** Internal Standard Area Summaries 50
- **6.6:** Surrogate Recovery Summaries 54
- **6.7:** Initial and Continuing Calibration Summaries 56

Section 7: GC/MS Volatiles - Raw Data **101**
- **7.1:** Samples 102
- **7.2:** Method Blanks 158
- **7.3:** Blank Spikes 162
- **7.4:** Matrix Spike/Matrix Spike Duplicates 175
- **7.5:** Instrument Performance Checks (BFB) 209
- **7.6:** Initial and Continuing Calibrations 214
- **7.7:** Instrument Run Logs 470

Section 8: General Chemistry - QC Data Summaries **504**
- **8.1:** Percent Solids Raw Data Summary 505

SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: FA33788

BMSMC, Building 5 Area, Humacao, PR
Project No: SM04.00.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA33788-1	05/06/16	16:00	RTL	05/10/16	AQ	Ground Water	RA6-GWD
FA33788-2	05/06/16	17:15	RTL	05/10/16	AQ	Equipment Blank	BPEB-15
FA33788-3	05/09/16	11:30	RTL	05/10/16	SO	Soil	RA-6 (6-7)
FA33788-3D	05/09/16	11:30	RTL	05/10/16	SO	Soil Dup/MSD	RA-6 (6-7)
FA33788-3S	05/09/16	11:30	RTL	05/10/16	SO	Soil Matrix Spike	RA-6 (6-7)
FA33788-4	05/09/16	12:00	RTL	05/10/16	AQ	Ground Water	RA5-GWS
FA33788-5	05/09/16	12:35	RTL	05/10/16	AQ	Ground Water	S-41S
FA33788-6	05/09/16	12:53	RTL	05/10/16	AQ	Ground Water	S-41SD
FA33788-7	05/09/16	13:55	RTL	05/10/16	SO	Soil	RA-5 (5.5-6.5)
FA33788-8	05/09/16	14:30	RTL	05/10/16	SO	Soil	RA-5 (9-10)
FA33788-9	04/11/16	06:30	RTL	05/10/16	AQ	Trip Blank Water	TB050916

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job No:** FA33788

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 5/24/2016 1:33:15 PM

8 Sample(s), 1 Trip Blank(s) were collected on/between 04/11/2016 and 05/09/2016 and were received at SGS Accutest Southeast (SASE) on 05/10/2016 properly preserved, at 4.6 Deg. C and intact. These Samples received an SASE job number of FA33788. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** VJ5292

All method blanks for this batch meet method specific criteria.

Sample(s) FA33788-1MS, FA33788-1MSD were used as the QC samples indicated.

The following samples were run outside of holding time for method SW846 8260C: FA33788-9. Sample received outside the holding time.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Tert-Butyl Alcohol are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD. For method performance in a clean matrix, refer to Blank Spike.

FA33788-9: Sample received outside the holding time. The sample is a Trip Blank

Matrix: SO **Batch ID:** VC4595

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA33788-8MS, FA33788-8MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1-Dichloroethylene, Acetone, Carbon Disulfide, Chloroethane, Freon 113, Methyl Bromide, Tert-Amyl Alcohol, Tert-Butyl Alcohol, Trichlorofluoromethane are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 1,1-Dichloroethylene, Acetone, Carbon Disulfide, Chloroethane, Methyl Bromide, Methylene Chloride, Tert-Butyl Alcohol, Trichlorofluoromethane are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for Tert-Amyl Alcohol are outside control limits for sample FA33788-8MSD. Probable cause is due to sample non-homogeneity.

Matrix: SO **Batch ID:** VF2652

FA33788-3: Confirmation run.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN70892

Sample(s) FA33591-27DUP was used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN70924

Sample(s) FA33874-1DUP was used as the QC samples for Solids, Percent.

Matrix: SO **Batch ID:** GN70971

Sample(s) FA33715-1DUP was used as the QC samples for Solids, Percent.

SGS Accutest (SASE) certifies that this report meets the project requirements for analytical data produced for the samples as received at SASE and as stated on the COC. SASE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the SASE Quality Manual except as noted above. This report is to be used in its entirety. SASE is not responsible for any assumptions of data quality if partial data packages are used.

Narrative prepared by:

_____ Date: May 24, 2016

Kim Benham, Client Services (signature on file)

Summary of Hits

Job Number: FA33788
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 04/11/16 thru 05/09/16

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA33788-1	**RA6-GWD**					
Acetone		12.7 J	25	10	ug/l	SW846 8260C
Benzene		1.5	1.0	0.20	ug/l	SW846 8260C
cis-1,2-Dichloroethylene		0.47 J	1.0	0.31	ug/l	SW846 8260C
Methyl Tert Butyl Ether		17.3	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		132	20	9.1	ug/l	SW846 8260C
Tetrahydrofuran		2.8 J	5.0	1.4	ug/l	SW846 8260C
m,p-Xylene		0.47 J	2.0	0.30	ug/l	SW846 8260C
FA33788-2	**BPEB-15**					
No hits reported in this sample.						
FA33788-3	**RA-6 (6-7)**					
Acetone		39.1 J	64	13	ug/kg	SW846 8260C
Isopropylbenzene		3.7 J	6.4	1.8	ug/kg	SW846 8260C
m,p-Xylene		71.3	13	2.2	ug/kg	SW846 8260C
o-Xylene		14.5	6.4	1.4	ug/kg	SW846 8260C
FA33788-4	**RA5-GWS**					
Benzene		0.51 J	1.0	0.20	ug/l	SW846 8260C
Cyclohexane		0.32 J	1.0	0.26	ug/l	SW846 8260C
Isopropylbenzene		76.0	1.0	0.33	ug/l	SW846 8260C
Methylcyclohexane		1.0	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		1.7	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		21.3	20	9.1	ug/l	SW846 8260C
Toluene		0.23 J	1.0	0.20	ug/l	SW846 8260C
m,p-Xylene		0.45 J	2.0	0.30	ug/l	SW846 8260C
o-Xylene		1.0	1.0	0.26	ug/l	SW846 8260C
FA33788-5	**S-41S**					
No hits reported in this sample.						
FA33788-6	**S-41SD**					
No hits reported in this sample.						
FA33788-7	**RA-5 (5.5-6.5)**					
Acetone		25.7 J	52	11	ug/kg	SW846 8260C
Isopropylbenzene		9.2	5.2	1.5	ug/kg	SW846 8260C

Summary of Hits

Job Number: FA33788
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 04/11/16 thru 05/09/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Methylcyclohexane		1.2 J	5.2	1.0	ug/kg	SW846 8260C
FA33788-8	**RA-5 (9-10)**					
Acetone		34.7 J	55	11	ug/kg	SW846 8260C
Isopropylbenzene		101	5.5	1.5	ug/kg	SW846 8260C
Methylcyclohexane		6.3	5.5	1.1	ug/kg	SW846 8260C
Methylene Chloride		5.2 J	11	4.4	ug/kg	SW846 8260C
4-Methyl-2-pentanone (MIBK)		93.8	27	12	ug/kg	SW846 8260C
FA33788-9	**TB050916**					

No hits reported in this sample.

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	RA6-GWD		
Lab Sample ID:	FA33788-1	**Date Sampled:**	05/06/16
Matrix:	AQ - Ground Water	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0976394.D	1	05/10/16	DP	n/a	n/a	VJ5292
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	12.7	25	10	ug/l	J
71-43-2	Benzene	1.5	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.47	1.0	0.31	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RA6-GWD		
Lab Sample ID:	FA33788-1	**Date Sampled:**	05/06/16
Matrix:	AQ - Ground Water	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	17.3	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	132	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	2.8	5.0	1.4	ug/l	J
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	0.47	2.0	0.30	ug/l	J
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-15		
Lab Sample ID:	FA33788-2	**Date Sampled:**	05/06/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0976395.D	1	05/10/16	DP	n/a	n/a	VJ5292
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPEB-15		
Lab Sample ID:	FA33788-2	**Date Sampled:**	05/06/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA-6 (6-7)		
Lab Sample ID:	FA33788-3	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	72.4
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0115590.D	1	05/12/16	EP	05/10/16 10:53	n/a	VC4595
Run #2 [a]	F0077284.D	1	05/11/16	EP	05/10/16 10:53	n/a	VF2652

	Initial Weight	Final Volume
Run #1	5.38 g	5.0 ml
Run #2	5.21 g	5.0 ml

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	39.1	64	13	ug/kg	J
71-43-2	Benzene	ND	6.4	1.6	ug/kg	
100-44-7	Benzyl Chloride	ND	6.4	1.8	ug/kg	
74-97-5	Bromochloromethane	ND	6.4	1.4	ug/kg	
75-27-4	Bromodichloromethane	ND	6.4	1.3	ug/kg	
75-25-2	Bromoform	ND	6.4	1.3	ug/kg	
78-93-3	2-Butanone (MEK)	ND	32	12	ug/kg	
75-15-0	Carbon Disulfide	ND	6.4	1.3	ug/kg	
56-23-5	Carbon Tetrachloride	ND	6.4	2.3	ug/kg	
108-90-7	Chlorobenzene	ND	6.4	1.3	ug/kg	
75-00-3	Chloroethane	ND	6.4	2.6	ug/kg	
67-66-3	Chloroform	ND	6.4	1.6	ug/kg	
110-82-7	Cyclohexane	ND	6.4	1.6	ug/kg	
124-48-1	Dibromochloromethane	ND	6.4	1.3	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.4	2.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.4	1.3	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.4	3.2	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.4	1.3	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.4	1.3	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.4	1.3	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.4	2.2	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.4	1.3	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.4	1.3	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.4	1.5	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.4	2.0	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.4	2.0	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.4	2.4	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.4	1.3	ug/kg	
100-41-4	Ethylbenzene	ND	6.4	1.4	ug/kg	
76-13-1	Freon 113	ND	6.4	1.5	ug/kg	
591-78-6	2-Hexanone	ND	32	11	ug/kg	
98-82-8	Isopropylbenzene	3.7	6.4	1.8	ug/kg	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RA-6 (6-7)		
Lab Sample ID:	FA33788-3	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	72.4
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	6.4	1.3	ug/kg	
79-20-9	Methyl Acetate	ND	32	11	ug/kg	
74-83-9	Methyl Bromide	ND	6.4	3.3	ug/kg	
74-87-3	Methyl Chloride	ND	6.4	3.1	ug/kg	
108-87-2	Methylcyclohexane	ND	6.4	1.3	ug/kg	
75-09-2	Methylene Chloride	ND	13	5.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	32	14	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.4	1.4	ug/kg	
100-42-5	Styrene	ND	6.4	1.3	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	64	17	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	64	17	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.4	2.8	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.4	1.7	ug/kg	
109-99-9	Tetrahydrofuran	ND	13	4.6	ug/kg	
108-88-3	Toluene	ND	6.4	1.5	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.4	2.5	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.4	1.9	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.4	1.3	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.4	2.3	ug/kg	
79-01-6	Trichloroethylene	ND	6.4	1.5	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.4	2.4	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.4	1.3	ug/kg	
75-01-4	Vinyl Chloride	ND	6.4	2.1	ug/kg	
	m,p-Xylene	71.3	13	2.2	ug/kg	
95-47-6	o-Xylene	14.5	6.4	1.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	117%	102%	75-124%
17060-07-0	1,2-Dichloroethane-D4	124%	109%	72-135%
2037-26-5	Toluene-D8	98%	106%	75-126%
460-00-4	4-Bromofluorobenzene	95%	110%	71-133%

(a) Confirmation run.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA5-GWS		
Lab Sample ID:	FA33788-4	**Date Sampled:**	05/09/16
Matrix:	AQ - Ground Water	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0976396.D	1	05/10/16	DP	n/a	n/a	VJ5292
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	0.51	1.0	0.20	ug/l	J
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	0.32	1.0	0.26	ug/l	J
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	76.0	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RA5-GWS		
Lab Sample ID:	FA33788-4	**Date Sampled:**	05/09/16
Matrix:	AQ - Ground Water	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	1.0	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	1.7	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	21.3	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	0.23	1.0	0.20	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	0.45	2.0	0.30	ug/l	J
95-47-6	o-Xylene	1.0	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	S-41S		
Lab Sample ID:	FA33788-5	**Date Sampled:**	05/09/16
Matrix:	AQ - Ground Water	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0976397.D	1	05/10/16	DP	n/a	n/a	VJ5292
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-41S		
Lab Sample ID:	FA33788-5	**Date Sampled:**	05/09/16
Matrix:	AQ - Ground Water	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	S-41SD		
Lab Sample ID:	FA33788-6	**Date Sampled:**	05/09/16
Matrix:	AQ - Ground Water	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	J0976398.D	1	05/10/16	DP	n/a	n/a	VJ5292
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	S-41SD		
Lab Sample ID:	FA33788-6	**Date Sampled:**	05/09/16
Matrix:	AQ - Ground Water	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA-5 (5.5-6.5)		
Lab Sample ID:	FA33788-7	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	81.8
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0115591.D	1	05/12/16	EP	05/10/16 11:03	n/a	VC4595
Run #2							

	Initial Weight	Final Volume
Run #1	5.92 g	5.0 ml
Run #2		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	25.7	52	11	ug/kg	J
71-43-2	Benzene	ND	5.2	1.3	ug/kg	
100-44-7	Benzyl Chloride	ND	5.2	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	1.0	ug/kg	
75-25-2	Bromoform	ND	5.2	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	26	9.4	ug/kg	
75-15-0	Carbon Disulfide	ND	5.2	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.2	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.2	2.1	ug/kg	
67-66-3	Chloroform	ND	5.2	1.3	ug/kg	
110-82-7	Cyclohexane	ND	5.2	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.2	2.3	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.2	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	2.6	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.2	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.2	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.2	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.2	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.2	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.2	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.2	1.6	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	2.0	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.2	1.1	ug/kg	
76-13-1	Freon 113	ND	5.2	1.2	ug/kg	
591-78-6	2-Hexanone	ND	26	9.0	ug/kg	
98-82-8	Isopropylbenzene	9.2	5.2	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RA-5 (5.5-6.5)		
Lab Sample ID:	FA33788-7	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	81.8
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	5.2	1.0	ug/kg	
79-20-9	Methyl Acetate	ND	26	8.9	ug/kg	
74-83-9	Methyl Bromide	ND	5.2	2.7	ug/kg	
74-87-3	Methyl Chloride	ND	5.2	2.5	ug/kg	
108-87-2	Methylcyclohexane	1.2	5.2	1.0	ug/kg	J
75-09-2	Methylene Chloride	ND	10	4.1	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	26	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.2	1.1	ug/kg	
100-42-5	Styrene	ND	5.2	1.0	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	52	14	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	52	14	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	2.3	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.2	1.4	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	3.7	ug/kg	
108-88-3	Toluene	ND	5.2	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	1.9	ug/kg	
79-01-6	Trichloroethylene	ND	5.2	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	1.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.2	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.2	1.7	ug/kg	
	m,p-Xylene	ND	10	1.8	ug/kg	
95-47-6	o-Xylene	ND	5.2	1.1	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		75-124%
17060-07-0	1,2-Dichloroethane-D4	108%		72-135%
2037-26-5	Toluene-D8	96%		75-126%
460-00-4	4-Bromofluorobenzene	97%		71-133%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	RA-5 (9-10)		
Lab Sample ID:	FA33788-8	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	81.4
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0115592.D	1	05/12/16	EP	05/10/16 11:06	n/a	VC4595
Run #2	C0115593.D	1	05/12/16	EP	05/10/16 11:06	n/a	VC4595

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.61 g	5.0 ml	
Run #2	5.03 g	5.0 ml	100 ul

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	34.7	55	11	ug/kg	J
71-43-2	Benzene	ND	5.5	1.4	ug/kg	
100-44-7	Benzyl Chloride	ND	5.5	1.5	ug/kg	
74-97-5	Bromochloromethane	ND	5.5	1.2	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	1.1	ug/kg	
75-25-2	Bromoform	ND	5.5	1.1	ug/kg	
78-93-3	2-Butanone (MEK)	ND	27	9.9	ug/kg	
75-15-0	Carbon Disulfide	ND	5.5	1.1	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.5	1.9	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	1.1	ug/kg	
75-00-3	Chloroethane	ND	5.5	2.2	ug/kg	
67-66-3	Chloroform	ND	5.5	1.3	ug/kg	
110-82-7	Cyclohexane	ND	5.5	1.3	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	1.1	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.5	2.4	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.5	1.1	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.5	2.7	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.5	1.1	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.5	1.1	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.5	1.1	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	1.8	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.5	1.1	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.5	1.1	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.5	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.5	1.7	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	1.7	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	2.1	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	1.1	ug/kg	
100-41-4	Ethylbenzene	ND	5.5	1.2	ug/kg	
76-13-1	Freon 113	ND	5.5	1.3	ug/kg	
591-78-6	2-Hexanone	ND	27	9.6	ug/kg	
98-82-8	Isopropylbenzene	101	5.5	1.5	ug/kg	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RA-5 (9-10)		
Lab Sample ID:	FA33788-8	**Date Sampled:**	05/09/16
Matrix:	SO - Soil	**Date Received:**	05/10/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	81.4
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	5.5	1.1	ug/kg	
79-20-9	Methyl Acetate	ND	27	9.4	ug/kg	
74-83-9	Methyl Bromide	ND	5.5	2.8	ug/kg	
74-87-3	Methyl Chloride	ND	5.5	2.6	ug/kg	
108-87-2	Methylcyclohexane	6.3	5.5	1.1	ug/kg	
75-09-2	Methylene Chloride	5.2	11	4.4	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	93.8	27	12	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.5	1.2	ug/kg	
100-42-5	Styrene	ND	5.5	1.1	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	55	15	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	55	15	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	2.4	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.5	1.4	ug/kg	
109-99-9	Tetrahydrofuran	ND	11	4.0	ug/kg	
108-88-3	Toluene	ND	5.5	1.2	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.5	2.2	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	1.6	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	1.1	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	2.0	ug/kg	
79-01-6	Trichloroethylene	ND	5.5	1.3	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.5	2.0	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.5	1.1	ug/kg	
75-01-4	Vinyl Chloride	ND	5.5	1.8	ug/kg	
	m,p-Xylene	ND	11	1.9	ug/kg	
95-47-6	o-Xylene	ND	5.5	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%	105%	75-124%
17060-07-0	1,2-Dichloroethane-D4	111%	96%	72-135%
2037-26-5	Toluene-D8	106%	90%	75-126%
460-00-4	4-Bromofluorobenzene	92%	98%	71-133%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS Accutest

Report of Analysis

Client Sample ID:	TB050916		
Lab Sample ID:	FA33788-9	**Date Sampled:**	04/11/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J0976399.D	1	05/10/16	DP	n/a	n/a	VJ5292
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB050916		
Lab Sample ID:	FA33788-9	**Date Sampled:**	04/11/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/10/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Sample received outside the holding time.

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST - FL

CHAIN OF CUSTODY

SGS Accutest ~~Dayton~~ Florida
~~2235 Route 130, Dayton, NJ 08810~~ 4405 Vineland Orlando FL
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FA33788

PAGE 1 OF 1

FED-EX Tracking #:
Bottle Order Control #:
SGS Accutest Quote #:
SGS Accutest Job #: Set from NJ

Client / Reporting Information

Company Name: Anderson Mulholland Assoc. Inc.
Street Address: 2700 Westchester
City: Purchase State: NY Zip:
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 Fax #:
Sampler's Name(s): N. Rivera, T. Taylor, D Lindstrand Phone #:

Project Information

Project Name: BMS Release Assessment
Street:
City: Humacao State: PR
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)

Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see ESI CODES sheet)

VOC - Method 8260C

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOC - Method 8260C	LAB USE ONLY
1	RA6-GWD		5/6/16	1600	TT	GW	3	3								X	
2	BPEB-15		5/6/16	1715	TT	EB	3	3								X	
3	RA-6 (6-7)		5/9/16	1130	TT	SO	4					1			3	X	
3	RA-6 (6-7) MS		5/9/16	1130	TT	SO	3								3	X	
3	RA-6 (6-7) MSD		5/9/16	1130	TT	SO	3								3	X	
4	RA-5-GWS		5/9/16	1200	TT	GW	3	3								X	
5	S-415		5/9/16	1235	NR	GW	3	3								X	
6	S-415 D		5/9/16	1253	NR	GW	3	3								X	
7	RA-5 (5.5-6.5)		5/9/16	1355	TT	SO	4					1			3	X	
8	RA-5 (9-10)		5/9/16	1430	TT	SO	4					1			3	X	
9	TB050916		4/11/16	0630		TB	2	2								X	

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [x] Std. 10 Business Days For soil samples
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] 1 Day RUSH For aqueous samples
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [x] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NJ Data of Known Quality Protocol Reporting
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Add to Report: Tetrahydrofuran, p-isopropyl toluene, 1-2-4 Trimethylbenzene, Benzyl chloride, Tetra amyl chloride

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	5/9/16 1500	1 Fed EX	2 FX		2 [signature] 5/10/16 445
3		3	4		4
5		5			

Custody Seal # 124 [ ] Intact [ ] Not intact
Preserved where applicable [ ]
On Ice [ ]
Cooler Temp. 4.6

FA33788: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA33788 CLIENT: Anderson Mulholland PROJECT: BMS Release

DATE/TIME RECEIVED: 5/10/16 945 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8025 9127 6573

COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] CHAIN OF CUSTODY NOT RECEIVED (COC)
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

TRIP BLANK INFORMATION

- [x] TRIP BLANK PROVIDED
- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM 15

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.0
- [ ] OBSERVED TEMPS: 4.6
- [ ] CORRECTED TEMPS: 4.6 (USED FOR LIMS)

SAMPLE INFORMATION

- [ ] INCORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] DATES/TIMES ON COC DO NOT MATCH SAMPLE LABEL
- [ ] ID'S ON COC DO NOT MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING OR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE CONTAINER(S) RECEIVED BROKEN
- [ ] 5035 FIELD KITS NOT RECEIVED WITHIN 48 HOURS
- [ ] BULK VOA SOIL JARS NOT RECEIVED WITHIN 48 HOURS
- [ ] % SOLIDS JAR NOT RECEIVED
- [ ] RESIDUAL CHLORINE PRESENT LOT#_____

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

TEST STRIP LOT#s pH 0-3 230315 pH 10-12 219813A OTHER (specify) _____

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 5/10/16 REVIEWER SIGNATURE/DATE JC 5-10-16

NF 11/15 RECEIPTLOG040416.xls

5.1 5

FedEx Express

Expanded Service
International Air Waybill

Origin Copy

Not all services and options are available to all destinations.

1 From

Date 05 09 16 — Sender's FedEx Account Number

Sender's Name David Lindstrand — Phone 787-487-4290

Company Anderson Mulholland Assoc. INC

Address BMS in care of

Address Rd #3, Km 77.5

City Humacao — State/Province PR

Country USA — ZIP/Postal Code 00791

2 To

Recipient's Name Sample Receiving — Phone 407-425-6200

Company SGS Accutest Florida

Address 4405 Vineland Rd — Dept./Floor

Address

City Orlando — State/Province FL

Country USA — ZIP/Postal Code 32811

Recipient's Tax ID Number for Customs Purposes

4a Express Package Service — *Packages up to 150 lbs. / 68 kg*

1 [X] FedEx Intl. Priority
6 [ ] FedEx Intl. First — Available to select locations.
3 [ ] FedEx Intl. Economy — FedEx Envelope and FedEx Pak rate not available.

4b Express Freight Service — *Packages over 150 lbs. / 68 kg*

70 [ ] FedEx Intl. Priority Freight
86 [ ] FedEx Intl. Economy Freight

Booking Number
Please call your local FedEx office to book shipments.

5 Packaging — *These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.

6 [X] FedEx Envelope
2 [ ] FedEx Pak
3 [ ] FedEx Box
4 [ ] FedEx Tube
1 [X] Other
PW [ ] FedEx 10kg Box*
PX [ ] FedEx 25kg Box*

6a Special Handling

1 [ ] HOLD at FedEx Location
3 [ ] SATURDAY Delivery — Available to select locations for FedEx Intl. Priority and FedEx Intl. Priority Freight only.

Does this shipment contain dangerous goods? — One box must be checked / licked.

[X] No
4 [ ] Yes — As per attached Shipper's Declaration.
8 [ ] Yes — Shipper's Declaration not required.
6 [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg
CA [ ] Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

6b Broker Selection — Not available with FedEx Intl. First.

40 [ ] Intl. Broker Select — To specify a broker other than FedEx.

Broker's Name

City / State / Province / Country

ZIP / Postal Code — Phone

5.1 5

FA33788: Chain of Custody
Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5292-MB	J0976385.D	1	05/10/16	DP	n/a	n/a	VJ5292

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-1, FA33788-2, FA33788-4, FA33788-5, FA33788-6, FA33788-9

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	

Method Blank Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5292-MB	J0976385.D	1	05/10/16	DP	n/a	n/a	VJ5292

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-1, FA33788-2, FA33788-4, FA33788-5, FA33788-6, FA33788-9

CAS No.	Compound	Result	RL	MDL	Units	Q
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	105%	83-118%

Method Blank Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4595-MB	C0115589.D	1	05/12/16	EP	n/a	n/a	VC4595

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-3, FA33788-7, FA33788-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	50	10	ug/kg	
71-43-2	Benzene	ND	5.0	1.3	ug/kg	
100-44-7	Benzyl Chloride	ND	5.0	1.4	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	1.1	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	1.0	ug/kg	
75-25-2	Bromoform	ND	5.0	1.0	ug/kg	
78-93-3	2-Butanone (MEK)	ND	25	9.1	ug/kg	
75-15-0	Carbon Disulfide	ND	5.0	1.0	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.0	1.8	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/kg	
75-00-3	Chloroethane	ND	5.0	2.0	ug/kg	
67-66-3	Chloroform	ND	5.0	1.2	ug/kg	
110-82-7	Cyclohexane	ND	5.0	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	1.0	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	2.2	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	1.0	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.0	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.0	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	1.0	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	1.7	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.2	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.5	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	1.6	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.9	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	1.1	ug/kg	
76-13-1	Freon 113	ND	5.0	1.2	ug/kg	
591-78-6	2-Hexanone	ND	25	8.7	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	1.4	ug/kg	
99-87-6	p-Isopropyltoluene	ND	5.0	1.0	ug/kg	
79-20-9	Methyl Acetate	ND	25	8.6	ug/kg	
74-83-9	Methyl Bromide	ND	5.0	2.6	ug/kg	
74-87-3	Methyl Chloride	ND	5.0	2.4	ug/kg	

Method Blank Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4595-MB	C0115589.D	1	05/12/16	EP	n/a	n/a	VC4595

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-3, FA33788-7, FA33788-8

CAS No.	Compound	Result	RL	MDL	Units	Q
108-87-2	Methylcyclohexane	ND	5.0	1.0	ug/kg	
75-09-2	Methylene Chloride	ND	10	4.0	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	50	14	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	50	14	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	3.6	ug/kg	
108-88-3	Toluene	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.7	ug/kg	
	m,p-Xylene	ND	10	1.8	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	113%	75-124%
17060-07-0	1,2-Dichloroethane-D4	109%	72-135%
2037-26-5	Toluene-D8	94%	75-126%
460-00-4	4-Bromofluorobenzene	98%	71-133%

Blank Spike Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5292-BS	J0976384.D	1	05/10/16	DP	n/a	n/a	VJ5292

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-1, FA33788-2, FA33788-4, FA33788-5, FA33788-6, FA33788-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	114	91	50-147
71-43-2	Benzene	25	26.0	104	81-122
100-44-7	Benzyl Chloride	25	24.6	98	54-122
74-97-5	Bromochloromethane	25	23.3	93	76-123
75-27-4	Bromodichloromethane	25	24.8	99	79-123
75-25-2	Bromoform	25	25.1	100	66-123
78-93-3	2-Butanone (MEK)	125	116	93	56-143
75-15-0	Carbon Disulfide	25	28.5	114	66-148
56-23-5	Carbon Tetrachloride	25	29.6	118	76-136
108-90-7	Chlorobenzene	25	25.4	102	82-124
75-00-3	Chloroethane	25	25.6	102	62-144
67-66-3	Chloroform	25	24.2	97	80-124
110-82-7	Cyclohexane	25	25.9	104	73-138
124-48-1	Dibromochloromethane	25	24.5	98	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	19.6	78	64-123
106-93-4	1,2-Dibromoethane	25	22.3	89	75-120
75-71-8	Dichlorodifluoromethane	25	23.3	93	42-167
95-50-1	1,2-Dichlorobenzene	25	22.9	92	82-124
541-73-1	1,3-Dichlorobenzene	25	24.6	98	84-125
106-46-7	1,4-Dichlorobenzene	25	23.2	93	78-120
75-34-3	1,1-Dichloroethane	25	26.5	106	81-122
107-06-2	1,2-Dichloroethane	25	23.4	94	75-125
75-35-4	1,1-Dichloroethylene	25	28.5	114	78-137
156-59-2	cis-1,2-Dichloroethylene	25	23.3	93	78-120
156-60-5	trans-1,2-Dichloroethylene	25	28.8	115	76-127
78-87-5	1,2-Dichloropropane	25	23.3	93	76-124
10061-01-5	cis-1,3-Dichloropropene	25	24.0	96	75-118
10061-02-6	trans-1,3-Dichloropropene	25	24.9	100	80-120
100-41-4	Ethylbenzene	25	26.2	105	81-121
76-13-1	Freon 113	25	25.7	103	72-134
591-78-6	2-Hexanone	125	119	95	61-129
98-82-8	Isopropylbenzene	25	27.0	108	83-132
99-87-6	p-Isopropyltoluene	25	27.1	108	79-130
79-20-9	Methyl Acetate	125	108	86	65-126
74-83-9	Methyl Bromide	25	23.3	93	59-143
74-87-3	Methyl Chloride	25	25.7	103	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5292-BS	J0976384.D	1	05/10/16	DP	n/a	n/a	VJ5292

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-1, FA33788-2, FA33788-4, FA33788-5, FA33788-6, FA33788-9

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	27.4	110	76-129
75-09-2	Methylene Chloride	25	24.7	99	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	116	93	66-122
1634-04-4	Methyl Tert Butyl Ether	25	23.3	93	72-117
100-42-5	Styrene	25	23.8	95	78-119
75-85-4	Tert-Amyl Alcohol	250	239	96	65-124
75-65-0	Tert-Butyl Alcohol	250	231	92	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	23.2	93	72-120
127-18-4	Tetrachloroethylene	25	23.7	95	76-135
109-99-9	Tetrahydrofuran	25	20.3	81	56-122
108-88-3	Toluene	25	24.2	97	80-120
87-61-6	1,2,3-Trichlorobenzene	25	21.0	84	68-131
120-82-1	1,2,4-Trichlorobenzene	25	21.7	87	73-129
71-55-6	1,1,1-Trichloroethane	25	24.8	99	75-130
79-00-5	1,1,2-Trichloroethane	25	22.8	91	76-119
79-01-6	Trichloroethylene	25	25.4	102	81-126
75-69-4	Trichlorofluoromethane	25	29.4	118	71-156
95-63-6	1,2,4-Trimethylbenzene	25	26.1	104	79-120
75-01-4	Vinyl Chloride	25	28.1	112	69-159
	m,p-Xylene	50	49.3	99	79-126
95-47-6	o-Xylene	25	25.2	101	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4595-BS	C0115588.D	1	05/12/16	EP	n/a	n/a	VC4595

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-3, FA33788-7, FA33788-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	215	86	61-152
71-43-2	Benzene	50	50.3	101	76-126
100-44-7	Benzyl Chloride	50	51.3	103	65-126
74-97-5	Bromochloromethane	50	46.7	93	77-120
75-27-4	Bromodichloromethane	50	50.8	102	74-130
75-25-2	Bromoform	50	53.5	107	76-127
78-93-3	2-Butanone (MEK)	250	216	86	75-137
75-15-0	Carbon Disulfide	50	51.1	102	72-122
56-23-5	Carbon Tetrachloride	50	50.8	102	78-133
108-90-7	Chlorobenzene	50	52.2	104	81-129
75-00-3	Chloroethane	50	46.6	93	68-133
67-66-3	Chloroform	50	52.0	104	72-123
110-82-7	Cyclohexane	50	48.0	96	73-126
124-48-1	Dibromochloromethane	50	54.7	109	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	47.3	95	70-137
106-93-4	1,2-Dibromoethane	50	52.6	105	77-126
75-71-8	Dichlorodifluoromethane	50	52.3	105	68-168
95-50-1	1,2-Dichlorobenzene	50	53.3	107	80-129
541-73-1	1,3-Dichlorobenzene	50	52.8	106	81-129
106-46-7	1,4-Dichlorobenzene	50	52.2	104	76-130
75-34-3	1,1-Dichloroethane	50	53.6	107	73-125
107-06-2	1,2-Dichloroethane	50	49.1	98	74-128
75-35-4	1,1-Dichloroethylene	50	52.2	104	81-136
156-59-2	cis-1,2-Dichloroethylene	50	48.8	98	74-126
156-60-5	trans-1,2-Dichloroethylene	50	57.7	115	70-127
78-87-5	1,2-Dichloropropane	50	47.7	95	74-125
10061-01-5	cis-1,3-Dichloropropene	50	56.8	114	80-123
10061-02-6	trans-1,3-Dichloropropene	50	56.8	114	75-131
100-41-4	Ethylbenzene	50	53.3	107	77-123
76-13-1	Freon 113	50	50.5	101	71-129
591-78-6	2-Hexanone	250	223	89	72-133
98-82-8	Isopropylbenzene	50	54.6	109	80-136
99-87-6	p-Isopropyltoluene	50	47.5	95	77-131
79-20-9	Methyl Acetate	250	250	100	67-137
74-83-9	Methyl Bromide	50	51.4	103	65-139
74-87-3	Methyl Chloride	50	55.5	111	71-144

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4595-BS	C0115588.D	1	05/12/16	EP	n/a	n/a	VC4595

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-3, FA33788-7, FA33788-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-87-2	Methylcyclohexane	50	50.2	100	75-128
75-09-2	Methylene Chloride	50	54.0	108	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	244	98	76-132
1634-04-4	Methyl Tert Butyl Ether	50	49.0	98	77-120
100-42-5	Styrene	50	53.7	107	78-125
75-85-4	Tert-Amyl Alcohol	500	561	112	69-130
75-65-0	Tert-Butyl Alcohol	500	561	112	58-136
79-34-5	1,1,2,2-Tetrachloroethane	50	46.3	93	71-126
127-18-4	Tetrachloroethylene	50	49.8	100	79-130
109-99-9	Tetrahydrofuran	50	55.0	110	70-133
108-88-3	Toluene	50	51.8	104	76-124
87-61-6	1,2,3-Trichlorobenzene	50	51.3	103	77-128
120-82-1	1,2,4-Trichlorobenzene	50	53.6	107	78-130
71-55-6	1,1,1-Trichloroethane	50	49.2	98	70-129
79-00-5	1,1,2-Trichloroethane	50	50.2	100	74-124
79-01-6	Trichloroethylene	50	50.6	101	75-128
75-69-4	Trichlorofluoromethane	50	49.4	99	73-145
95-63-6	1,2,4-Trimethylbenzene	50	46.6	93	74-123
75-01-4	Vinyl Chloride	50	54.3	109	76-141
	m,p-Xylene	100	112	112	80-128
95-47-6	o-Xylene	50	53.2	106	80-132

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	75-124%
17060-07-0	1,2-Dichloroethane-D4	93%	72-135%
2037-26-5	Toluene-D8	100%	75-126%
460-00-4	4-Bromofluorobenzene	103%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33788-1MS	J0976405.D	1	05/10/16	DP	n/a	n/a	VJ5292
FA33788-1MSD	J0976406.D	1	05/10/16	DP	n/a	n/a	VJ5292
FA33788-1	J0976394.D	1	05/10/16	DP	n/a	n/a	VJ5292

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-1, FA33788-2, FA33788-4, FA33788-5, FA33788-6, FA33788-9

CAS No.	Compound	FA33788-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	12.7	J	125	124	89	125	131	95	5	50-147/21
71-43-2	Benzene	1.5		25	27.8	105	25	27.8	105	0	81-122/14
100-44-7	Benzyl Chloride	ND		25	22.9	92	25	22.0	88	4	54-122/18
74-97-5	Bromochloromethane	ND		25	25.1	100	25	25.0	100	0	76-123/14
75-27-4	Bromodichloromethane	ND		25	26.0	104	25	23.9	96	8	79-123/19
75-25-2	Bromoform	ND		25	20.7	83	25	20.4	82	1	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	124	99	125	128	102	3	56-143/18
75-15-0	Carbon Disulfide	ND		25	27.9	112	25	26.1	104	7	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	31.3	125	25	27.4	110	13	76-136/23
108-90-7	Chlorobenzene	ND		25	27.0	108	25	26.7	107	1	82-124/14
75-00-3	Chloroethane	ND		25	28.9	116	25	26.7	107	8	62-144/20
67-66-3	Chloroform	ND		25	26.8	107	25	25.8	103	4	80-124/15
110-82-7	Cyclohexane	ND		25	28.6	114	25	27.3	109	5	73-138/18
124-48-1	Dibromochloromethane	ND		25	21.9	88	25	21.1	84	4	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	21.3	85	25	21.3	85	0	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	23.6	94	25	23.5	94	0	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	23.9	96	25	23.0	92	4	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	24.9	100	25	24.7	99	1	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	26.1	104	25	26.0	104	0	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	25.6	102	25	25.6	102	0	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	28.5	114	25	28.1	112	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	24.9	100	25	24.6	98	1	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	31.2	125	25	30.9	124	1	78-137/18
156-59-2	cis-1,2-Dichloroethylene	0.47	J	25	26.1	103	25	25.8	101	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	31.6	126	25	30.1	120	5	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	24.8	99	25	24.7	99	0	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	23.9	96	25	22.4	90	6	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	23.5	94	25	22.9	92	3	80-120/22
100-41-4	Ethylbenzene	ND		25	27.9	112	25	27.0	108	3	81-121/14
76-13-1	Freon 113	ND		25	28.5	114	25	27.2	109	5	72-134/20
591-78-6	2-Hexanone	ND		125	127	102	125	132	106	4	61-129/18
98-82-8	Isopropylbenzene	ND		25	28.4	114	25	28.3	113	0	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	28.6	114	25	28.2	113	1	79-130/16
79-20-9	Methyl Acetate	ND		125	112	90	125	117	94	4	65-126/18
74-83-9	Methyl Bromide	ND		25	25.3	101	25	23.7	95	7	59-143/19
74-87-3	Methyl Chloride	ND		25	26.2	105	25	25.2	101	4	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33788-1MS	J0976405.D	1	05/10/16	DP	n/a	n/a	VJ5292
FA33788-1MSD	J0976406.D	1	05/10/16	DP	n/a	n/a	VJ5292
FA33788-1	J0976394.D	1	05/10/16	DP	n/a	n/a	VJ5292

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-1, FA33788-2, FA33788-4, FA33788-5, FA33788-6, FA33788-9

CAS No.	Compound	FA33788-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		25	29.7	119	25	28.5	114	4	76-129/17
75-09-2	Methylene Chloride	ND		25	27.0	108	25	26.1	104	3	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	120	96	125	127	102	6	66-122/16
1634-04-4	Methyl Tert Butyl Ether	17.3		25	43.9	106	25	44.5	109	1	72-117/14
100-42-5	Styrene	ND		25	22.3	89	25	21.9	88	2	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	263	105	250	271	108	3	65-124/23
75-65-0	Tert-Butyl Alcohol	132		250	501	148*	250	497	146*	1	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	24.6	98	25	25.5	102	4	72-120/14
127-18-4	Tetrachloroethylene	ND		25	24.0	96	25	23.2	93	3	76-135/16
109-99-9	Tetrahydrofuran	2.8	J	25	26.4	94	25	28.2	102	7	56-122/21
108-88-3	Toluene	ND		25	24.6	98	25	24.6	98	0	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	21.0	84	25	22.8	91	8	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	22.3	89	25	23.5	94	5	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	28.1	112	25	26.9	108	4	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	23.3	93	25	23.8	95	2	76-119/14
79-01-6	Trichloroethylene	ND		25	27.8	111	25	27.8	111	0	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	31.9	128	25	29.9	120	6	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	26.8	107	25	26.6	106	1	79-120/18
75-01-4	Vinyl Chloride	ND		25	29.8	119	25	28.0	112	6	69-159/18
	m,p-Xylene	0.47	J	50	51.3	102	50	50.2	99	2	79-126/15
95-47-6	o-Xylene	ND		25	25.9	104	25	25.5	102	2	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA33788-1	Limits
1868-53-7	Dibromofluoromethane	103%	102%	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	102%	98%	79-125%
2037-26-5	Toluene-D8	92%	93%	97%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	106%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33788-8MS	C0115594.D	1	05/12/16	EP	n/a	n/a	VC4595
FA33788-8MSD	C0115595.D	1	05/12/16	EP	n/a	n/a	VC4595
FA33788-8	C0115592.D	1	05/12/16	EP	n/a	n/a	VC4595
FA33788-8	C0115593.D	1	05/12/16	EP	n/a	n/a	VC4595

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-3, FA33788-7, FA33788-8

CAS No.	Compound	FA33788-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	34.7	J	18100	10300	57*	18100	10700	59*	4	61-152/27
71-43-2	Benzene	ND		3620	3410	94	3620	3480	96	2	76-126/26
100-44-7	Benzyl Chloride	ND		3620	3220	89	3620	3200	88	1	65-126/31
74-97-5	Bromochloromethane	ND		3620	3230	89	3620	3490	96	8	77-120/24
75-27-4	Bromodichloromethane	ND		3620	3260	90	3620	3350	92	3	74-130/25
75-25-2	Bromoform	ND		3620	3670	101	3620	3670	101	0	76-127/26
78-93-3	2-Butanone (MEK)	ND		18100	14000	77	18100	14200	78	1	75-137/25
75-15-0	Carbon Disulfide	ND		3620	2380	66*	3620	2450	68*	3	72-122/29
56-23-5	Carbon Tetrachloride	ND		3620	2900	80	3620	3010	83	4	78-133/29
108-90-7	Chlorobenzene	ND		3620	3700	102	3620	3610	100	2	81-129/29
75-00-3	Chloroethane	ND		3620	1270	35*	3620	1280	35*	1	68-133/29
67-66-3	Chloroform	ND		3620	3180	88	3620	3330	92	5	72-123/26
110-82-7	Cyclohexane	ND		3620	3050	84	3620	3230	89	6	73-126/32
124-48-1	Dibromochloromethane	ND		3620	3660	101	3620	3680	102	1	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	ND		3620	2610	72	3620	2710	75	4	70-137/29
106-93-4	1,2-Dibromoethane	ND		3620	3820	105	3620	3620	100	5	77-126/26
75-71-8	Dichlorodifluoromethane	ND		3620	2920	81	3620	3000	83	3	68-168/29
95-50-1	1,2-Dichlorobenzene	ND		3620	3720	103	3620	3800	105	2	80-129/32
541-73-1	1,3-Dichlorobenzene	ND		3620	3830	106	3620	3740	103	2	81-129/33
106-46-7	1,4-Dichlorobenzene	ND		3620	3710	102	3620	3740	103	1	76-130/32
75-34-3	1,1-Dichloroethane	ND		3620	3270	90	3620	3410	94	4	73-125/27
107-06-2	1,2-Dichloroethane	ND		3620	3080	85	3620	3090	85	0	74-128/23
75-35-4	1,1-Dichloroethylene	ND		3620	2550	70*	3620	2590	71*	2	81-136/28
156-59-2	cis-1,2-Dichloroethylene	ND		3620	3300	91	3620	3470	96	5	74-126/26
156-60-5	trans-1,2-Dichloroethylene	ND		3620	2990	83	3620	3010	83	1	70-127/27
78-87-5	1,2-Dichloropropane	ND		3620	3380	93	3620	3330	92	1	74-125/25
10061-01-5	cis-1,3-Dichloropropene	ND		3620	4220	116	3620	3980	110	6	80-123/26
10061-02-6	trans-1,3-Dichloropropene	ND		3620	4040	111	3620	3790	105	6	75-131/28
100-41-4	Ethylbenzene	ND		3620	3370	93	3620	3500	97	4	77-123/31
76-13-1	Freon 113	ND		3620	2530	70*	3620	2590	71	2	71-129/30
591-78-6	2-Hexanone	ND		18100	13500	74	18100	13700	76	1	72-133/26
98-82-8	Isopropylbenzene	101		3620	3440	92	3620	3560	95	3	80-136/32
99-87-6	p-Isopropyltoluene	ND		3620	3140	87	3620	3230	89	3	77-131/34
79-20-9	Methyl Acetate	ND		18100	18000	99	18100	18500	102	3	67-137/30
74-83-9	Methyl Bromide	ND		3620	2190	60*	3620	2230	62*	2	65-139/31
74-87-3	Methyl Chloride	ND		3620	3490	96	3620	3590	99	3	71-144/27

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33788-8MS	C0115594.D	1	05/12/16	EP	n/a	n/a	VC4595
FA33788-8MSD	C0115595.D	1	05/12/16	EP	n/a	n/a	VC4595
FA33788-8	C0115592.D	1	05/12/16	EP	n/a	n/a	VC4595
FA33788-8	C0115593.D	1	05/12/16	EP	n/a	n/a	VC4595

The QC reported here applies to the following samples: **Method:** SW846 8260C

FA33788-3, FA33788-7, FA33788-8

CAS No.	Compound	FA33788-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	6.3		3620	3230	89	3620	3320	91	3	75-128/31
75-09-2	Methylene Chloride	5.2	J	3620	2720	75	3620	2630	72*	3	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	93.8		18100	13800	76	18100	15300	84	10	76-132/26
1634-04-4	Methyl Tert Butyl Ether	ND		3620	2850	79	3620	2940	81	3	77-120/24
100-42-5	Styrene	ND		3620	3780	104	3620	3730	103	1	78-125/30
75-85-4	Tert-Amyl Alcohol	ND		36200	77200	213*	36200	34700	96	76*	69-130/32
75-65-0	Tert-Butyl Alcohol	ND		36200	66000	182*	36200	48200	133*	31	74-126/32
79-34-5	1,1,2,2-Tetrachloroethane	ND		3620	3090	85	3620	3230	89	4	71-126/30
127-18-4	Tetrachloroethylene	ND		3620	3670	101	3620	3970	110	8	79-130/31
109-99-9	Tetrahydrofuran	ND		3620	3450	95	3620	3570	99	3	70-133/26
108-88-3	Toluene	ND		3620	3450	95	3620	3540	98	3	76-124/30
87-61-6	1,2,3-Trichlorobenzene	ND		3620	3540	98	3620	3790	105	7	77-128/35
120-82-1	1,2,4-Trichlorobenzene	ND		3620	3700	102	3620	3900	108	5	78-130/34
71-55-6	1,1,1-Trichloroethane	ND		3620	2740	76	3620	2850	79	4	70-129/27
79-00-5	1,1,2-Trichloroethane	ND		3620	3480	96	3620	3520	97	1	74-124/28
79-01-6	Trichloroethylene	ND		3620	3370	93	3620	3410	94	1	75-128/27
75-69-4	Trichlorofluoromethane	ND		3620	903	25*	3620	1080	30*	18	73-145/31
95-63-6	1,2,4-Trimethylbenzene	ND		3620	3050	84	3620	3160	87	4	74-123/34
75-01-4	Vinyl Chloride	ND		3620	3490	96	3620	3590	99	3	76-141/27
	m,p-Xylene	ND		7250	6950	96	7250	7130	98	3	80-128/30
95-47-6	o-Xylene	ND		3620	3310	91	3620	3460	95	4	80-132/30

CAS No.	Surrogate Recoveries	MS	MSD	FA33788-8	FA33788-8	Limits
1868-53-7	Dibromofluoromethane	91%	93%	113%	105%	75-124%
17060-07-0	1,2-Dichloroethane-D4	80%	82%	111%	96%	72-135%
2037-26-5	Toluene-D8	93%	97%	106%	90%	75-126%
460-00-4	4-Bromofluorobenzene	109%	109%	92%	98%	71-133%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VC4595-BFB
Lab File ID: C0115578.D
Instrument ID: GCMSC
Injection Date: 05/12/16
Injection Time: 11:34

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	40501	18.6		Pass
75	30.0 - 60.0% of mass 95	111235	51.1		Pass
95	Base peak, 100% relative abundance	217536	100.0		Pass
96	5.0 - 9.0% of mass 95	15132	6.96		Pass
173	Less than 2.0% of mass 174	778	0.36	(0.58) [a]	Pass
174	50.0 - 100.0% of mass 95	133296	61.3		Pass
175	5.0 - 9.0% of mass 174	9706	4.46	(7.28) [a]	Pass
176	95.0 - 101.0% of mass 174	127989	58.8	(96.0) [a]	Pass
177	5.0 - 9.0% of mass 176	8524	3.92	(6.66) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VC4595-IC4595	C0115579.D	05/12/16	11:59	00:25	Initial cal 1
VC4595-IC4595	C0115580.D	05/12/16	12:25	00:51	Initial cal 2
VC4595-IC4595	C0115581.D	05/12/16	12:51	01:17	Initial cal 3
VC4595-ICC4595	C0115582.D	05/12/16	13:16	01:42	Initial cal 4
VC4595-IC4595	C0115583.D	05/12/16	13:42	02:08	Initial cal 5
VC4595-IC4595	C0115584.D	05/12/16	14:07	02:33	Initial cal 6
VC4595-IC4595	C0115585.D	05/12/16	14:33	02:59	Initial cal 7
VC4595-ICV4595	C0115587.D	05/12/16	15:25	03:51	Initial cal verification 4
VC4595-BS	C0115588.D	05/12/16	15:50	04:16	Blank Spike
VC4595-MB	C0115589.D	05/12/16	16:16	04:42	Method Blank
FA33788-3	C0115590.D	05/12/16	16:42	05:08	RA-6 (6-7)
FA33788-7	C0115591.D	05/12/16	17:07	05:33	RA-5 (5.5-6.5)
FA33788-8	C0115592.D	05/12/16	17:33	05:59	RA-5 (9-10)
FA33788-8	C0115593.D	05/12/16	17:58	06:24	RA-5 (9-10)
FA33788-8MS	C0115594.D	05/12/16	18:24	06:50	Matrix Spike
FA33788-8MSD	C0115595.D	05/12/16	18:50	07:16	Matrix Spike Duplicate
ZZZZZZ	C0115596.D	05/12/16	19:15	07:41	(unrelated sample)
ZZZZZZ	C0115598.D	05/12/16	20:07	08:33	(unrelated sample)
VC4595-ECC4595	C0115600.D	05/12/16	20:58	09:24	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VF2649-BFB
Lab File ID: F0077207.D
Instrument ID: GCMSF
Injection Date: 05/09/16
Injection Time: 08:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	55453	20.3		Pass
75	30.0 - 60.0% of mass 95	137296	50.4		Pass
95	Base peak, 100% relative abundance	272576	100.0		Pass
96	5.0 - 9.0% of mass 95	19176	7.04		Pass
173	Less than 2.0% of mass 174	481	0.18	(0.22) [a]	Pass
174	50.0 - 100.0% of mass 95	213824	78.4		Pass
175	5.0 - 9.0% of mass 174	15050	5.52	(7.04) [a]	Pass
176	95.0 - 101.0% of mass 174	211541	77.6	(98.9) [a]	Pass
177	5.0 - 9.0% of mass 176	12635	4.64	(5.97) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF2649-IC2649	F0077208.D	05/09/16	08:45	00:24	Initial cal 1
VF2649-IC2649	F0077209.D	05/09/16	09:08	00:47	Initial cal 2
VF2649-IC2649	F0077210.D	05/09/16	09:31	01:10	Initial cal 3
VF2649-ICC2649	F0077211.D	05/09/16	09:54	01:33	Initial cal 4
VF2649-IC2649	F0077212.D	05/09/16	10:17	01:56	Initial cal 5
VF2649-IC2649	F0077213.D	05/09/16	10:40	02:19	Initial cal 6
VF2649-IC2649	F0077214.D	05/09/16	11:03	02:42	Initial cal 7
VF2649-ICV2649	F0077216.D	05/09/16	11:49	03:28	Initial cal verification 4
VF2649-BS	F0077217.D	05/09/16	12:12	03:51	Blank Spike
VF2649-MB	F0077218.D	05/09/16	12:36	04:15	Method Blank
FA33767-1	F0077219.D	05/09/16	12:59	04:38	(used for QC only; not part of job FA33788)
ZZZZZZ	F0077220.D	05/09/16	13:22	05:01	(unrelated sample)
ZZZZZZ	F0077221.D	05/09/16	13:45	05:24	(unrelated sample)
ZZZZZZ	F0077222.D	05/09/16	14:08	05:47	(unrelated sample)
ZZZZZZ	F0077223.D	05/09/16	14:31	06:10	(unrelated sample)
ZZZZZZ	F0077224.D	05/09/16	14:54	06:33	(unrelated sample)
ZZZZZZ	F0077225.D	05/09/16	15:18	06:57	(unrelated sample)
ZZZZZZ	F0077226.D	05/09/16	15:41	07:20	(unrelated sample)
ZZZZZZ	F0077227.D	05/09/16	16:03	07:42	(unrelated sample)
ZZZZZZ	F0077228.D	05/09/16	16:27	08:06	(unrelated sample)
ZZZZZZ	F0077229.D	05/09/16	16:50	08:29	(unrelated sample)
ZZZZZZ	F0077230.D	05/09/16	17:13	08:52	(unrelated sample)
FA33767-1MS	F0077231.D	05/09/16	17:36	09:15	Matrix Spike
FA33767-1MSD	F0077232.D	05/09/16	17:59	09:38	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VF2649-BFB
Lab File ID: F0077207.D
Instrument ID: GCMSF
Injection Date: 05/09/16
Injection Time: 08:21

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	F0077233.D	05/09/16	18:22	10:01	(unrelated sample)
VF2649-ECC2649	F0077234.D	05/09/16	18:45	10:24	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VF2651-BFB
Lab File ID: F0077270.D
Instrument ID: GCMSF
Injection Date: 05/11/16
Injection Time: 09:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	44443	21.2		Pass
75	30.0 - 60.0% of mass 95	104661	50.0		Pass
95	Base peak, 100% relative abundance	209344	100.0		Pass
96	5.0 - 9.0% of mass 95	13991	6.68		Pass
173	Less than 2.0% of mass 174	1125	0.54	(0.70) [a]	Pass
174	50.0 - 100.0% of mass 95	160384	76.6		Pass
175	5.0 - 9.0% of mass 174	11231	5.36	(7.00) [a]	Pass
176	95.0 - 101.0% of mass 174	154837	74.0	(96.5) [a]	Pass
177	5.0 - 9.0% of mass 176	10719	5.12	(6.92) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VF2651-CC2649	F0077271.D	05/11/16	09:51	00:23	Continuing cal 4
VF2651-BS	F0077272.D	05/11/16	10:14	00:46	Blank Spike
VF2652-BS	F0077272.D	05/11/16	10:14	00:46	Blank Spike
VF2652-MB	F0077273.D	05/11/16	10:37	01:09	Method Blank
VF2651-MB	F0077273.D	05/11/16	10:37	01:09	Method Blank
ZZZZZZ	F0077275.D	05/11/16	11:23	01:55	(unrelated sample)
ZZZZZZ	F0077276.D	05/11/16	11:46	02:18	(unrelated sample)
FA33764-39	F0077277.D	05/11/16	12:09	02:41	(used for QC only; not part of job FA33788)
ZZZZZZ	F0077278.D	05/11/16	12:32	03:04	(unrelated sample)
ZZZZZZ	F0077279.D	05/11/16	12:56	03:28	(unrelated sample)
ZZZZZZ	F0077280.D	05/11/16	13:18	03:50	(unrelated sample)
ZZZZZZ	F0077281.D	05/11/16	13:41	04:13	(unrelated sample)
FA33788-3	F0077284.D	05/11/16	14:51	05:23	RA-6 (6-7)
FA33788-3MS	F0077287.D	05/11/16	16:00	06:32	Matrix Spike
FA33788-3MSD	F0077288.D	05/11/16	16:23	06:55	Matrix Spike Duplicate
ZZZZZZ	F0077289.D	05/11/16	16:46	07:18	(unrelated sample)
FA33764-39MS	F0077291.D	05/11/16	17:32	08:04	Matrix Spike
FA33764-39MSD	F0077292.D	05/11/16	17:55	08:27	Matrix Spike Duplicate
ZZZZZZ	F0077293.D	05/11/16	18:18	08:50	(unrelated sample)
ZZZZZZ	F0077294.D	05/11/16	18:41	09:13	(unrelated sample)
ZZZZZZ	F0077295.D	05/11/16	19:04	09:36	(unrelated sample)
ZZZZZZ	F0077296.D	05/11/16	19:27	09:59	(unrelated sample)
VF2651-ECC2649	F0077297.D	05/11/16	19:51	10:23	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5237-BFB
Lab File ID: J0975149.D
Instrument ID: GCMSJ
Injection Date: 03/15/16
Injection Time: 13:53

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	66293	17.6		Pass
75	30.0 - 60.0% of mass 95	194069	51.4		Pass
95	Base peak, 100% relative abundance	377600	100.0		Pass
96	5.0 - 9.0% of mass 95	26531	7.03		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	318315	84.3		Pass
175	5.0 - 9.0% of mass 174	22907	6.07	(7.20) [a]	Pass
176	95.0 - 101.0% of mass 174	311403	82.5	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	20325	5.38	(6.53) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ5237-IC5237	J0975150.D	03/15/16	14:17	00:24	Initial cal 1
VJ5237-IC5237	J0975151.D	03/15/16	14:41	00:48	Initial cal 2
VJ5237-IC5237	J0975152.D	03/15/16	15:05	01:12	Initial cal 3
VJ5237-IC5237	J0975153.D	03/15/16	15:28	01:35	Initial cal 4
VJ5237-ICC5237	J0975154.D	03/15/16	15:51	01:58	Initial cal 5
VJ5237-IC5237	J0975155.D	03/15/16	16:15	02:22	Initial cal 6
VJ5237-IC5237	J0975156.D	03/15/16	16:39	02:46	Initial cal 7
VJ5237-ICV5237	J0975158.D	03/15/16	17:26	03:33	Initial cal verification 5
VJ5237-ICV5237	J0975159.D	03/15/16	17:51	03:58	Initial cal verification 5

Instrument Performance Check (BFB)

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5291-BFB
Lab File ID: J0976382.D
Instrument ID: GCMSJ
Injection Date: 05/10/16
Injection Time: 08:11

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	48488	17.5		Pass
75	30.0 - 60.0% of mass 95	140147	50.7		Pass
95	Base peak, 100% relative abundance	276480	100.0		Pass
96	5.0 - 9.0% of mass 95	18863	6.82		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	246421	89.1		Pass
175	5.0 - 9.0% of mass 174	17940	6.49	(7.28) [a]	Pass
176	95.0 - 101.0% of mass 174	240448	87.0	(97.6) [a]	Pass
177	5.0 - 9.0% of mass 176	15896	5.75	(6.61) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ5291-CC5237	J0976383.D	05/10/16	09:01	00:50	Continuing cal 5
VJ5292-BS	J0976384.D	05/10/16	09:38	01:27	Blank Spike
VJ5291-BS	J0976384.D	05/10/16	09:38	01:27	Blank Spike
VJ5292-MB	J0976385.D	05/10/16	10:01	01:50	Method Blank
VJ5291-MB	J0976385.D	05/10/16	10:01	01:50	Method Blank
ZZZZZZ	J0976386.D	05/10/16	10:24	02:13	(unrelated sample)
ZZZZZZ	J0976387.D	05/10/16	10:46	02:35	(unrelated sample)
ZZZZZZ	J0976388.D	05/10/16	11:09	02:58	(unrelated sample)
ZZZZZZ	J0976389.D	05/10/16	11:32	03:21	(unrelated sample)
ZZZZZZ	J0976390.D	05/10/16	11:55	03:44	(unrelated sample)
ZZZZZZ	J0976391.D	05/10/16	12:18	04:07	(unrelated sample)
ZZZZZZ	J0976392.D	05/10/16	12:41	04:30	(unrelated sample)
ZZZZZZ	J0976393.D	05/10/16	13:04	04:53	(unrelated sample)
FA33788-1	J0976394.D	05/10/16	13:27	05:16	RA6-GWD
FA33788-2	J0976395.D	05/10/16	13:50	05:39	BPEB-15
FA33788-4	J0976396.D	05/10/16	14:13	06:02	RA5-GWS
FA33788-5	J0976397.D	05/10/16	14:36	06:25	S-41S
FA33788-6	J0976398.D	05/10/16	14:59	06:48	S-41SD
FA33788-9	J0976399.D	05/10/16	15:22	07:11	TB050916
FA33688-1	J0976400.D	05/10/16	15:45	07:34	(used for QC only; not part of job FA33788)
ZZZZZZ	J0976401.D	05/10/16	16:07	07:56	(unrelated sample)
ZZZZZZ	J0976402.D	05/10/16	16:30	08:19	(unrelated sample)
ZZZZZZ	J0976403.D	05/10/16	16:54	08:43	(unrelated sample)
ZZZZZZ	J0976404.D	05/10/16	17:16	09:05	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5291-BFB
Lab File ID: J0976382.D
Instrument ID: GCMSJ
Injection Date: 05/10/16
Injection Time: 08:11

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA33788-1MS	J0976405.D	05/10/16	17:39	09:28	Matrix Spike
FA33788-1MSD	J0976406.D	05/10/16	18:02	09:51	Matrix Spike Duplicate
FA33688-1MS	J0976407.D	05/10/16	18:25	10:14	Matrix Spike
FA33688-1MSD	J0976408.D	05/10/16	18:47	10:36	Matrix Spike Duplicate
VJ5291-ECC5237	J0976409.D	05/10/16	19:10	10:59	Ending cal 5

Volatile Internal Standard Area Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VC4595-ICC4595	**Injection Date:**	05/12/16
Lab File ID:	C0115582.D	**Injection Time:**	13:16
Instrument ID:	GCMSC	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	956915	6.88	606301	10.00	290940	12.37	96168	4.52
Check Std [b]	956915	6.88	606301	10.00	290940	12.37	96168	4.52
Upper Limit [c]	1913830	7.38	1212602	10.50	581880	12.87	192336	5.02
Lower Limit [d]	478458	6.38	303151	9.50	145470	11.87	48084	4.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VC4595-BS	974696	6.88	668688	10.00	351771	12.37	87288	4.52
VC4595-MB	1014545	6.88	690448	10.00	355851	12.37	83457	4.56
FA33788-3	966869	6.89	611787	10.00	319571	12.37	126007	4.52
FA33788-7	939699	6.89	614364	10.00	321701	12.37	85564	4.52
FA33788-8	908608	6.89	599097	10.01	357538	12.38	122047	4.52
FA33788-8	1392271	6.88	990547	10.00	563487	12.37	122025	4.56
FA33788-8MS	1495826	6.88	1120057	10.00	571898	12.37	62785	4.57
FA33788-8MSD	1457986	6.88	1026947	10.00	518562	12.37	73669	4.55
ZZZZZZ	1454671	6.88	975370	10.00	518530	12.37	137423	4.57
ZZZZZZ	1369765	6.88	926191	10.00	472703	12.38	119435	4.56
VC4595-ECC4595	990087	6.89	687002	10.00	336645	12.37	98434	4.52

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VC4595-ICC4595 C0115582.D 05/12/16 13:16
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VF2651-CC2649	**Injection Date:**	05/11/16
Lab File ID:	F0077271.D	**Injection Time:**	09:51
Instrument ID:	GCMSF	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1164894	7.08	818600	10.22	422596	12.59	145270	4.70
Check Std [b]	991281	7.08	670793	10.22	361240	12.59	149123	4.69
Upper Limit [c]	1982562	7.58	1341586	10.72	722480	13.09	298246	5.19
Lower Limit [d]	495641	6.58	335397	9.72	180620	12.09	74562	4.19

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VF2652-BS	975824	7.08	680458	10.22	340006	12.59	142770	4.71
VF2651-BS	975824	7.08	680458	10.22	340006	12.59	142770	4.71
VF2652-MB	1006358	7.08	657161	10.22	312979	12.59	156700	4.83
VF2651-MB	1006358	7.08	657161	10.22	312979	12.59	156700	4.83
ZZZZZZ	1281077	7.08	950926	10.22	552185	12.60	121936	4.81
ZZZZZZ	1181390	7.08	776516	10.22	366786	12.59	187283	4.69
FA33764-39	932548	7.08	734098	10.22	372950	12.59	156521	4.69
ZZZZZZ	1097350	7.08	682183	10.22	294055	12.59	171248	4.69
ZZZZZZ	777072	7.08	607578	10.21	303061	12.59	136884	4.67
ZZZZZZ	1009963	7.08	682311	10.22	432478	12.59	125202	4.78
ZZZZZZ	1069933	7.08	876087	10.22	496306	12.59	138912	4.72
FA33788-3 [e]	976970	7.08	633894	10.22	311346	12.59	111437	4.68
FA33788-3MS	957966	7.08	778999	10.22	420196	12.59	177621	4.68
FA33788-3MSD	1102652	7.08	758695	10.22	407604	12.59	151228	4.70
ZZZZZZ	1050222	7.08	629116	10.22	298062	12.59	146387	4.72
FA33764-39MS	973738	7.08	662765	10.22	314170	12.59	95224	4.71
FA33764-39MSD	910342	7.08	603670	10.22	296114	12.59	87742	4.70
ZZZZZZ	853669	7.08	549990	10.22	257917	12.59	138825	4.67
ZZZZZZ	680000	7.08	543518	10.22	252165	12.59	130515	4.68
ZZZZZZ	761059	7.08	572646	10.22	258615	12.59	127927	4.69
ZZZZZZ	745006	7.08	483455	10.22	203769	12.59	112166	4.68
VF2651-ECC2649	740563	7.08	503189	10.22	261817	12.59	117359	4.71

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VF2649-ICC2649 F0077211.D 05/09/16 09:54
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Confirmation run.

Volatile Internal Standard Area Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5291-CC5237	**Injection Date:**	05/10/16
Lab File ID:	J0976383.D	**Injection Time:**	09:01
Instrument ID:	GCMSJ	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1586569	7.76	1198090	10.85	683182	13.21	86536	5.30
Check Std [b]	1300978	7.76	1048196	10.85	615897	13.21	87764	5.30
Upper Limit [c]	2601956	8.26	2096392	11.35	1231794	13.71	175528	5.80
Lower Limit [d]	650489	7.26	524098	10.35	307949	12.71	43882	4.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5292-BS	1346321	7.76	1060068	10.85	598319	13.21	86793	5.30
VJ5291-BS	1346321	7.76	1060068	10.85	598319	13.21	86793	5.30
VJ5292-MB	1233863	7.76	926875	10.85	500446	13.21	78665	5.29
VJ5291-MB	1233863	7.76	926875	10.85	500446	13.21	78665	5.29
ZZZZZZ	1191012	7.76	895144	10.85	485598	13.21	75049	5.30
ZZZZZZ	1199627	7.76	911005	10.85	489331	13.21	70263	5.30
ZZZZZZ	1150371	7.76	883969	10.85	482078	13.20	70686	5.29
ZZZZZZ	1170138	7.76	874168	10.85	455125	13.21	62228	5.31
ZZZZZZ	1161576	7.76	892698	10.85	470676	13.21	66239	5.30
ZZZZZZ	1145112	7.76	875625	10.85	461725	13.21	66838	5.30
ZZZZZZ	1104778	7.76	893303	10.85	596524	13.21	70538	5.30
ZZZZZZ	1210904	7.76	931175	10.85	551447	13.20	76867	5.29
FA33788-1	1277381	7.76	1014569	10.85	517477	13.20	76109	5.30
FA33788-2	1269283	7.76	950767	10.85	510513	13.21	73197	5.30
FA33788-4	1227862	7.76	967629	10.85	528417	13.20	75160	5.29
FA33788-5	1258683	7.76	957942	10.85	512424	13.21	76388	5.30
FA33788-6	1213611	7.76	920300	10.85	499012	13.21	75053	5.29
FA33788-9 [e]	1191207	7.76	897286	10.85	489986	13.21	71314	5.29
FA33688-1	1183511	7.76	900266	10.85	483937	13.21	72354	5.30
ZZZZZZ	1173314	7.76	892856	10.85	476292	13.21	70993	5.29
ZZZZZZ	1172379	7.76	879156	10.85	478522	13.21	73174	5.30
ZZZZZZ	1194414	7.76	881991	10.85	477091	13.21	77903	5.29
ZZZZZZ	1116287	7.76	856306	10.85	460195	13.21	73091	5.30
FA33788-1MS	1198867	7.76	1008909	10.85	566339	13.20	85262	5.30
FA33788-1MSD	1284613	7.76	1064930	10.85	592974	13.21	94404	5.30
FA33688-1MS	1299563	7.76	1061176	10.85	594540	13.21	86681	5.30
FA33688-1MSD	1392199	7.76	1082113	10.85	603262	13.21	95068	5.30
VJ5291-ECC5237	1405968	7.76	1137936	10.85	637816	13.21	94115	5.30

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4
IS 4 = Tert Butyl Alcohol-D10

Volatile Internal Standard Area Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5291-CC5237	**Injection Date:**	05/10/16
Lab File ID:	J0976383.D	**Injection Time:**	09:01
Instrument ID:	GCMSJ	**Method:**	SW846 8260C

Lab	IS 1		IS 2		IS 3		IS 4	
Sample ID	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**	**AREA**	**RT**

(a) Initial Cal is: VJ5237-ICC5237 J0975154.D 03/15/16 15:51
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Sample received outside the holding time.

Volatile Surrogate Recovery Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Method: SW846 8260C **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FA33788-1	J0976394.D	101	98	97	106
FA33788-2	J0976395.D	101	99	101	104
FA33788-4	J0976396.D	102	99	97	103
FA33788-5	J0976397.D	101	99	100	105
FA33788-6	J0976398.D	101	100	100	102
FA33788-9	J0976399.D	102	101	102	102
FA33788-1MS	J0976405.D	103	103	92	97
FA33788-1MSD	J0976406.D	102	102	93	98
VJ5292-BS	J0976384.D	101	99	98	100
VJ5292-MB	J0976385.D	103	99	101	105

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	83-118%
S2 = 1,2-Dichloroethane-D4	79-125%
S3 = Toluene-D8	85-112%
S4 = 4-Bromofluorobenzene	83-118%

Volatile Surrogate Recovery Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Method: SW846 8260C **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FA33788-3	C0115590.D	117	124	98	95
FA33788-3	F0077284.D	102	109	106	110
FA33788-7	C0115591.D	111	108	96	97
FA33788-8	C0115592.D	113	111	106	92
FA33788-8	C0115593.D	105	96	90	98
FA33788-8MS	C0115594.D	91	80	93	109
FA33788-8MSD	C0115595.D	93	82	97	109
VC4595-BS	C0115588.D	98	93	100	103
VC4595-MB	C0115589.D	113	109	94	98

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	75-124%
S2 = 1,2-Dichloroethane-D4	72-135%
S3 = Toluene-D8	75-126%
S4 = 4-Bromofluorobenzene	71-133%

Initial Calibration Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VC4595-ICC4595
Lab FileID: C0115582.D

Response Factor Report MSVOA5

Method : C:\msdchem\2\MET...216APP9-C-Soil.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Fri May 13 07:24:44 2016
Response via : Initial Calibration

Calibration Files
1 =C0115579.D 2 =C0115580.D 3 =C0115581.D 4 =C0115582.D
5 =C0115583.D 6 =C0115584.D 7 =C0115585.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.639	0.617	0.608	0.544	0.514	0.494	0.535	0.564	9.97
3)P Chloromethane	0.608	0.616	0.609	0.526	0.452	0.446	0.465	0.532	14.77
4)C Vinyl Chloride	0.482	0.499	0.503	0.430	0.392	0.387	0.424	0.445	11.03
5) Bromomethane	0.271	0.280	0.261	0.193	0.173	0.172	0.167	0.217	23.69
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979									
Response Ratio = 0.00000 + 0.19534 *A + -0.00740 *A^2									
6) Chloroethane	0.239	0.245	0.225	0.166	0.132	0.129	0.113	0.178	31.85
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9951									
Response Ratio = 0.00000 + 0.17253 *A + -0.01509 *A^2									
7) Trichlorofluorome	0.610	0.649	0.660	0.576	0.515	0.499	0.484	0.571	12.71
8) Ethyl Ether	0.247	0.264	0.254	0.227	0.203	0.198	0.181	0.225	14.07
9) 1,2-Dichlorotrifl	0.485	0.473	0.457	0.371	0.318	0.297	0.286	0.384	22.66
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9981									
Response Ratio = 0.00000 + 0.37176 *A + -0.02253 *A^2									
10)C 1,1-Dichloroethen	0.646	0.660	0.626	0.535	0.472	0.438	0.428	0.544	18.45
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9986									
Response Ratio = 0.00000 + 0.53513 *A + -0.02812 *A^2									
11) Freon 113	0.456	0.455	0.391	0.344	0.303	0.285	0.293	0.361	20.47
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9975									
Response Ratio = 0.00000 + 0.32605 *A + -0.00952 *A^2									
12) Carbon Disulfide	1.353	1.319	1.255	1.046	0.887	0.832	0.797	1.070	22.31
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9982									
Response Ratio = 0.00000 + 1.04344 *A + -0.06417 *A^2									
13) Iodomethane	0.645	0.647	0.633	0.552	0.497	0.511	0.515	0.571	11.88
14) Allyl chloride	0.547	0.518	0.547	0.473	0.409	0.392	0.379	0.466	15.75
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9987									
Response Ratio = 0.00000 + 0.46648 *A + -0.02288 *A^2									
15) Methylene Chlorid	0.655	0.554	0.508	0.404	0.340	0.323	0.307	0.442	30.20
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979									
Response Ratio = 0.00000 + 0.40615 *A + -0.02579 *A^2									
16) Acetone	0.101	0.083	0.084	0.068	0.062	0.060	0.058	0.074	21.85
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991									
Response Ratio = 0.00000 + 0.06879 *A + -0.00055 *A^2									
17) Methyl acetate	0.179	0.168	0.154	0.128	0.111	0.105	0.098	0.135	23.83
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989									
Response Ratio = 0.00000 + 0.13193 *A + -0.00171 *A^2									

Initial Calibration Summary

Job Number: FA33788 **Sample:** VC4595-ICC4595
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115582.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
18)  trans-1,2-Dichlor 0.540 0.566 0.520 0.449 0.389 0.373 0.365 0.458  18.46
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 0.44063 *A + -0.01994 *A^2

19)  Hexane            0.315 0.303 0.273 0.245 0.219 0.199 0.205 0.251  18.70
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9972
              Response Ratio = 0.00000 + 0.23583 *A + -0.00880 *A^2

20)  Methyl Tert Butyl 0.917 0.916 0.886 0.818 0.745 0.751 0.736 0.824   9.95
21)  Acetonitrile      0.032 0.023 0.024 0.019 0.017 0.017 0.016 0.021  27.65
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.01953 *A + -0.00010 *A^2

22)  Di-isopropyl ethe 0.903 0.953 0.922 0.851 0.764 0.729 0.689 0.830  12.45
23)  Chloroprene       0.651 0.661 0.662 0.621 0.549 0.522 0.509 0.596  11.35
24)P 1,1-Dichloroethan 0.694 0.707 0.676 0.588 0.505 0.483 0.462 0.588  17.97
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.58510 *A + -0.03187 *A^2

25)  Acrylonitrile     0.075 0.065 0.066 0.057 0.054 0.051 0.052 0.060  14.73
26)  ETBE              0.928 0.973 0.954 0.888 0.803 0.783 0.745 0.868  10.43
27)  Vinyl acetate     0.459 0.403 0.463 0.391 0.352 0.322 0.303 0.385  16.27
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.40797 *A + -0.00535 *A^2

28)  cis-1,2-Dichloroe 0.431 0.449 0.424 0.394 0.352 0.336 0.333 0.388  12.36
29)  2,2-Dichloropropa 0.564 0.528 0.510 0.430 0.343 0.323 0.308 0.429  24.78
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9968
              Response Ratio = 0.00000 + 0.41662 *A + -0.02839 *A^2

30)  Bromochloromethan 0.202 0.202 0.186 0.169 0.152 0.150 0.148 0.173  13.85
31)  Cyclohexane       0.608 0.591 0.579 0.521 0.474 0.438 0.439 0.522  13.93
32)C Chloroform        0.778 0.775 0.756 0.636 0.575 0.566 0.547 0.662  15.79
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.64000 *A + -0.02383 *A^2

33)  Ethyl acetate     0.168 0.153 0.169 0.153 0.151 0.140 0.140 0.153   7.61
34)  Tetrahydrofuran   0.075 0.048 0.052 0.043 0.043 0.041 0.041 0.049  24.91
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.04509 *A + -0.00107 *A^2

35)S Dibromofluorometh 0.318 0.318 0.295 0.290 0.276 0.276 0.273 0.292   6.53
36)  Carbon Tetrachlor 0.636 0.640 0.705 0.628 0.571 0.543 0.541 0.609   9.90
37)  1,1,1-Trichloroet 0.690 0.675 0.686 0.597 0.529 0.504 0.484 0.595  15.15
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.60152 *A + -0.03037 *A^2

38)  2-Butanone        0.102 0.089 0.098 0.089 0.087 0.080 0.077 0.089   9.96
39)  1,1-Dichloroprope 0.492 0.495 0.495 0.467 0.428 0.397 0.394 0.453  10.10
40)  Propionitrile     0.035 0.032 0.032 0.027 0.025 0.023 0.022 0.028  18.46
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.02797 *A + -0.00016 *A^2

41)  Methacrylonitrile 0.127 0.118 0.125 0.112 0.103 0.093 0.088 0.109  14.01
42)  Benzene           1.363 1.401 1.392 1.255 1.124 1.030 0.973 1.220  14.59
43)  TAME              0.825 0.843 0.802 0.788 0.731 0.725 0.698 0.773   7.14
44)S 1,2-Dichloroethan 0.357 0.351 0.335 0.323 0.325 0.320 0.312 0.332   5.00
45)  1,2-Dichloroethan 0.476 0.464 0.470 0.432 0.399 0.385 0.373 0.428  10.06
46)  Trichloroethene   0.366 0.368 0.363 0.347 0.311 0.294 0.288 0.334  10.56
```

```
47)  Methylcyclohexane 0.590 0.631 0.606 0.570 0.523 0.472 0.469 0.552  11.71
48)  Dibromomethane    0.203 0.197 0.199 0.204 0.182 0.174 0.180 0.191   6.42
49)C 1,2-Dichloropropa 0.294 0.305 0.305 0.314 0.258 0.241 0.255 0.282  10.42
50)  Bromodichlorometh 0.441 0.443 0.445 0.442 0.392 0.382 0.389 0.419   7.07
51)  Methyl methacryla 0.089 0.124 0.138 0.135 0.154 0.143 0.156 0.134  16.84
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
              Response Ratio = 0.00000 + 0.13533 *A + 0.00463 *A^2

52)  2-Chloroethyl vin 0.053 0.071 0.104 0.104 0.111 0.105 0.102 0.093  23.44
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.11314 *A + -0.00054 *A^2

53)  cis-1,3-Dichlorop 0.312 0.349 0.416 0.413 0.429 0.416 0.407 0.392  11.14

54) I   Chlorobenzene-d5      ----------------ISTD---------------------
55)S Toluene-d8        1.423 1.378 1.410 1.478 1.487 1.490 1.495 1.452   3.24
56)C Toluene           1.746 1.795 1.843 1.822 1.678 1.527 1.429 1.691   9.33
57)  2-Nitropropane    0.083 0.074 0.088 0.090 0.091 0.088 0.088 0.086   6.60
58)  4-Methyl-2-pentan 0.294 0.303 0.342 0.325 0.282 0.253 0.230 0.290  13.45
59)  trans-1,3-Dichlor 0.357 0.373 0.425 0.425 0.462 0.444 0.431 0.417   9.09
60)  Tetrachloroethene 0.438 0.462 0.429 0.427 0.409 0.398 0.416 0.426   4.89
61)  Ethyl methacrylat 0.216 0.223 0.285 0.346 0.368 0.362 0.367 0.310  21.95
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.34730 *A + 0.00519 *A^2

62)  1,1,2-Trichloroet 0.288 0.276 0.289 0.277 0.262 0.246 0.241 0.268   7.19
63)  Dibromochlorometh 0.321 0.353 0.362 0.387 0.392 0.394 0.390 0.371   7.41
64)  1,3-Dichloropropa 0.448 0.453 0.492 0.510 0.520 0.499 0.485 0.487   5.61
65)  1,2-Dibromoethane 0.253 0.260 0.293 0.288 0.303 0.301 0.295 0.285   6.97
66)  2-hexanone        0.117 0.124 0.164 0.171 0.166 0.152 0.146 0.149  14.16
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.17876 *A + -0.00167 *A^2

67)  1-Chlorohexane    0.340 0.425 0.504 0.567 0.539 0.507 0.521 0.486  16.04
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.54103 *A + -0.00625 *A^2

68)C Ethylbenzene      1.857 1.976 1.983 1.925 1.681 1.539 1.453 1.773  12.20
69)P Chlorobenzene     1.046 1.070 1.085 1.047 0.964 0.905 0.875 0.999   8.42
70)  1,1,1,2-Tetrachlo 0.488 0.472 0.465 0.489 0.440 0.440 0.430 0.461   5.22
71)  m,p-Xylene        1.264 1.421 1.502 1.473 1.263 1.111 1.018 1.293  14.21
72)  o-Xylene          1.119 1.371 1.623 1.772 1.591 1.469 1.401 1.478  14.26
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 1.77376 *A + -0.09481 *A^2

73)  Styrene           0.690 0.880 0.986 1.036 0.985 0.944 0.923 0.920  12.31
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 1.00218 *A + -0.01842 *A^2

74)P Bromoform         0.155 0.170 0.183 0.178 0.190 0.189 0.201 0.181   8.37
75)  Isopropylbenzene  1.375 1.692 1.915 2.093 1.861 1.724 1.659 1.760  12.92
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 2.06819 *A + -0.10476 *A^2


76) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
77)S 4-Bromofluorobenz 0.593 0.581 0.636 0.655 0.682 0.713 0.695 0.651   7.73
78)  cis-1,4-Dichloro- 0.105 0.106 0.148 0.146 0.168 0.163 0.155 0.142  18.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.16677 *A + -0.00239 *A^2
```

```
 79)  n-Propylbenzene   3.765 4.336 4.685 4.620 3.859 3.540 3.024 3.976  15.24
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
               Response Ratio = 0.00000 + 4.89327 *A + -0.46533 *A^2

 80)  Bromobenzene      0.784 0.834 0.861 0.822 0.772 0.782 0.705 0.794   6.38
 81)P 1,1,2,2-Tetrachlo 0.966 0.957 1.029 0.916 0.832 0.827 0.753 0.897  10.78
 82)  1,3,5-Trimethylbe 2.592 3.274 3.582 3.661 3.152 2.998 2.658 3.131  13.28
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
               Response Ratio = 0.00000 + 3.80172 *A + -0.28324 *A^2

 83)  2-Chlorotoluene   2.791 3.215 3.412 3.422 2.965 2.789 2.455 3.007  11.99
 84)  trans-1,4-Dichlor 0.113 0.130 0.150 0.148 0.164 0.157 0.145 0.144  11.86
 85)  1,2,3-Trichloropr 0.261 0.244 0.256 0.233 0.224 0.222 0.211 0.236   7.88
 86)  Cyclohexanone     0.022 0.020 0.026 0.027 0.028 0.026 0.025 0.025  11.96
 87)  4-Chlorotoluene   2.174 2.524 2.742 2.855 2.497 2.381 2.104 2.468  11.16
 88)  tert-Butylbenzene 1.234 1.723 2.182 2.488 2.232 2.186 1.965 2.001  20.65
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
               Response Ratio = 0.00000 + 2.56606 *A + -0.14541 *A^2

 89)  1,2,4-Trimethylbe 2.481 3.159 3.440 3.535 3.102 2.973 2.578 3.038  13.12
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
               Response Ratio = 0.00000 + 3.76547 *A + -0.29088 *A^2

 90)  Pentachloroethane 0.491 0.521 0.582 0.592 0.530 0.549 0.501 0.538   7.17
 91)  sec-Butylbenzene  3.127 3.847 4.323 4.590 4.105 3.842 3.328 3.880  13.41
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 4.63832 *A + -0.30384 *A^2

 92)  4-Isopropyltoluen 2.189 2.994 3.465 3.779 3.421 3.221 2.877 3.135  16.44
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
               Response Ratio = 0.00000 + 3.99168 *A + -0.27386 *A^2

 93)  1,3-Dichlorobenze 1.603 1.720 1.656 1.681 1.508 1.456 1.370 1.571   8.22
 94)  1,4-Dichlorobenze 1.684 1.621 1.579 1.570 1.431 1.391 1.322 1.514   8.80
 95)  n-Butylbenzene    1.427 1.791 1.941 2.114 1.880 1.764 1.648 1.795  12.21
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
               Response Ratio = 0.00000 + 2.13758 *A + -0.12291 *A^2

 96)  Benzyl Chloride   0.262 0.310 0.336 0.322 0.307 0.309 0.292 0.305   7.64
 97)  1,2-Dichlorobenze 1.617 1.647 1.717 1.717 1.535 1.515 1.469 1.602   6.16
 98)  1,2-Dibromo-3-Chl 0.217 0.184 0.206 0.207 0.217 0.212 0.220 0.209   5.81
 99)  Hexachlorobutadie 0.720 0.681 0.651 0.732 0.683 0.701 0.783 0.707   6.04
100)  1,2,4-Trichlorobe 1.096 1.165 1.078 1.269 1.095 1.153 1.175 1.147   5.77
101)  Naphthalene       2.556 2.714 3.010 3.192 2.794 2.824 2.701 2.827   7.50
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
               Response Ratio = 0.00000 + 3.07904 *A + -0.09398 *A^2

102)  1,2,3-Trichlorobe 1.185 1.266 1.127 1.259 1.077 1.143 1.181 1.177   5.83

103) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
104)  Ethanol           0.072 0.072 0.090 0.073 0.080 0.067 0.069 0.075  10.46
105)  Acrolein          1.313 1.419 1.734 1.635 1.583 1.538 1.753 1.568  10.24
106)  Tert butyl alcoho 1.275 1.246 1.307 1.250 1.225 1.187 1.410 1.272   5.63
107)  Isobutyl alcohol  0.288 0.218 0.262 0.245 0.241 0.210 0.242 0.244  10.71
108)  Tert Amyl Alcohol 0.824 0.850 1.005 0.984 0.987 0.933 1.092 0.954   9.77
109)  1,4-Dioxane       0.063 0.083 0.106 0.093 0.114 0.098 0.101 0.094  17.59
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9952
               Response Ratio = 0.00000 + 0.10712 *A + -0.00043 *A^2
```

Initial Calibration Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VC4595-ICC4595
Lab FileID: C0115582.D

(#) = Out of Range

051216APP9-C-Soil.m Fri May 13 07:42:29 2016

Initial Calibration Verification

Job Number: FA33788 **Sample:** VC4595-ICV4595
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115587.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\051216\C0115587.D          Vial: 14
Acq On    : 12 May 2016   3:25 pm                     Operator: ericp
Sample    : ICV4595-4                                 Inst    : MSVOA5
Misc      : ms33242,vc4595,5.00,,,5,,                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\2\MET...216APP9-C-Soil.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri May 13 07:24:44 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)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	101	0.00	6.89
2	Dichlorodifluoromethane	0.564	0.609	-8.0	113	0.00	2.23
3 P	Chloromethane	0.532	0.620	-16.5	118	0.00	2.42
4 C	Vinyl Chloride	0.445	0.492	-10.6	115	0.01	2.53
		Amount	Calc.	%Drift			
5	Bromomethane	50.000	54.175	-8.3	106	0.00	2.88
6	Chloroethane	50.000	52.233	-4.5	99	0.00	3.02
		AvgRF	CCRF	%Dev			
7	Trichlorofluoromethane	0.571	0.596	-4.4	104	0.00	3.17
8	Ethyl Ether	0.225	0.222	1.3	98	0.00	3.44
		Amount	Calc.	%Drift			
9	1,2-Dichlorotrifluoroetha	50.000	58.832	-17.7	110	0.00	3.67
10 C	1,1-Dichloroethene	50.000	53.256	-6.5	101	0.00	3.67
11	Freon 113	50.000	52.907	-5.8	98	0.00	3.73
12	Carbon Disulfide	50.000	52.555	-5.1	99	0.00	3.71
		AvgRF	CCRF	%Dev			
13	Iodomethane	0.571	0.573	-0.4	104	0.00	3.83
		Amount	Calc.	%Drift			
14	Allyl chloride	50.000	45.214	9.6	86	0.00	4.15
15	Methylene Chloride	50.000	54.565	-9.1	103	0.00	4.26
16	Acetone	250.000	213.774	14.5	84	0.00	4.31
17	Methyl acetate	250.000	249.932	0.0	97	0.00	4.42
18	trans-1,2-Dichloroethene	50.000	58.123	-16.2	109	0.00	4.43
19	Hexane	50.000	51.828	-3.7	97	0.00	4.48
		AvgRF	CCRF	%Dev			
20	Methyl Tert Butyl Ether	0.824	0.817	0.8	101	0.00	4.52
		Amount	Calc.	%Drift			
21	Acetonitrile	500.000	454.254	9.1	90	0.00	4.80
		AvgRF	CCRF	%Dev			
22	Di-isopropyl ether	0.830	0.831	-0.1	98	0.00	4.88
23	Chloroprene	0.596	0.548	8.1	89	0.00	5.02
		Amount	Calc.	%Drift			
24 P	1,1-Dichloroethane	50.000	54.010	-8.0	102	0.00	5.05

Initial Calibration Verification

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VC4595-ICV4595
Lab FileID: C0115587.D

			AvgRF	CCRF	%Dev			
25		Acrylonitrile	0.060	0.058	3.3	101	0.00	5.11
26		ETBE	0.868	0.858	1.2	97	0.00	5.25
			Amount	Calc.	%Drift			
27		Vinyl acetate	250.000	256.964	-2.8	101	0.00	5.28
			AvgRF	CCRF	%Dev			
28		cis-1,2-Dichloroethene	0.388	0.386	0.5	99	0.00	5.60
			Amount	Calc.	%Drift			
29		2,2-Dichloropropane	50.000	56.199	-12.4	101	0.00	5.71
			AvgRF	CCRF	%Dev			
30		Bromochloromethane	0.173	0.163	5.8	97	0.00	5.81
31		Cyclohexane	0.522	0.506	3.1	98	0.00	5.81
			Amount	Calc.	%Drift			
32	C	Chloroform	50.000	52.188	-4.4	102	0.00	5.87
			AvgRF	CCRF	%Dev			
33		Ethyl acetate	0.153	0.157	-2.6	103	0.00	5.96
			Amount	Calc.	%Drift			
34		Tetrahydrofuran	50.000	53.203	-6.4	108	0.00	6.04
			AvgRF	CCRF	%Dev			
35	S	Dibromofluoromethane	0.292	0.286	2.1	99	0.00	6.06
36		Carbon Tetrachloride	0.609	0.633	-3.9	101	0.00	6.02
			Amount	Calc.	%Drift			
37		1,1,1-Trichloroethane	50.000	51.303	-2.6	99	0.00	6.09
			AvgRF	CCRF	%Dev			
38		2-Butanone	0.089	0.077	13.5	87	0.00	6.18
39		1,1-Dichloropropene	0.453	0.479	-5.7	103	0.00	6.21
			Amount	Calc.	%Drift			
40		Propionitrile	500.000	480.120	4.0	95	0.00	6.51
			AvgRF	CCRF	%Dev			
41		Methacrylonitrile	0.109	0.105	3.7	94	0.00	6.52
42		Benzene	1.220	1.232	-1.0	99	0.00	6.48
43		TAME	0.773	0.729	5.7	93	0.00	6.56
44	S	1,2-Dichloroethane-d4	0.332	0.306	7.8	95	0.00	6.62
45		1,2-Dichloroethane	0.428	0.427	0.2	99	0.00	6.68
46		Trichloroethene	0.334	0.341	-2.1	99	0.00	7.06
47		Methylcyclohexane	0.552	0.580	-5.1	103	0.00	7.05
48		Dibromomethane	0.191	0.196	-2.6	97	0.00	7.50
49	C	1,2-Dichloropropane	0.282	0.273	3.2	87	0.00	7.59
50		Bromodichloromethane	0.419	0.425	-1.4	97	0.00	7.64
			Amount	Calc.	%Drift			
51		Methyl methacrylate	50.000	49.443	1.1	103	0.00	7.77
52		2-Chloroethyl vinyl ether	250.000	249.642	0.1	107	0.00	8.19
			AvgRF	CCRF	%Dev			
53		cis-1,3-Dichloropropene	0.392	0.447	-14.0	109	0.00	8.27

Initial Calibration Verification

Job Number: FA33788 **Sample:** VC4595-ICV4595
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115587.D
Project: BMSMC, Building 5 Area, Humacao, PR

54	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00	10.00
55	S	Toluene-d8	1.452	1.402	3.4	102	0.00	8.45
56	C	Toluene	1.691	1.781	-5.3	105	0.00	8.51
57		2-Nitropropane	0.086	0.084	2.3	100	0.00	8.75
58		4-Methyl-2-pentanone	0.290	0.284	2.1	94	0.00	8.87
59		trans-1,3-Dichloropropene	0.417	0.493	-18.2	125	0.00	8.92
60		Tetrachloroethene	0.426	0.426	0.0	107	0.00	8.90
		----------	Amount	Calc.	%Drift	----------		
61		Ethyl methacrylate	50.000	44.785	10.4	98	0.00	9.04
		----------	AvgRF	CCRF	%Dev	----------		
62		1,1,2-Trichloroethane	0.268	0.269	-0.4	104	0.00	9.08
63		Dibromochloromethane	0.371	0.403	-8.6	112	0.00	9.26
64		1,3-Dichloropropane	0.487	0.510	-4.7	107	0.00	9.36
65		1,2-Dibromoethane	0.285	0.307	-7.7	115	0.00	9.51
		----------	Amount	Calc.	%Drift	----------		
66		2-hexanone	250.000	222.316	11.1	96	0.00	9.69
67		1-Chlorohexane	50.000	52.508	-5.0	106	0.00	9.97
		----------	AvgRF	CCRF	%Dev	----------		
68	C	Ethylbenzene	1.773	1.904	-7.4	106	0.00	10.03
69	P	Chlorobenzene	0.999	1.066	-6.7	109	0.00	10.02
70		1,1,1,2-Tetrachloroethane	0.461	0.491	-6.5	108	0.00	10.08
71		m,p-Xylene	1.293	1.473	-13.9	107	0.00	10.17
		----------	Amount	Calc.	%Drift	----------		
72		o-Xylene	50.000	53.718	-7.4	109	0.00	10.61
73		Styrene	50.000	54.381	-8.8	111	0.00	10.67
		----------	AvgRF	CCRF	%Dev	----------		
74	P	Bromoform	0.181	0.197	-8.8	119	0.00	10.72
		----------	Amount	Calc.	%Drift	----------		
75		Isopropylbenzene	50.000	55.362	-10.7	111	0.00	10.92
		----------	AvgRF	CCRF	%Dev	----------		
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	115	0.00	12.37
77	S	4-Bromofluorobenzene	0.651	0.663	-1.8	116	0.00	11.23
		----------	Amount	Calc.	%Drift	----------		
78		cis-1,4-Dichloro-2-butene	50.000	44.096	11.8	114	0.00	11.28
79		n-Propylbenzene	50.000	51.302	-2.6	113	0.00	11.34
		----------	AvgRF	CCRF	%Dev	----------		
80		Bromobenzene	0.794	0.820	-3.3	115	0.00	11.34
81	P	1,1,2,2-Tetrachloroethane	0.897	0.851	5.1	107	0.00	11.42
		----------	Amount	Calc.	%Drift	----------		
82		1,3,5-Trimethylbenzene	50.000	49.057	1.9	109	0.00	11.54
		----------	AvgRF	CCRF	%Dev	----------		
83		2-Chlorotoluene	3.007	3.304	-9.9	111	0.00	11.52
84		trans-1,4-Dichloro-2-Bute	0.144	0.146	-1.4	113	0.00	11.60
85		1,2,3-Trichloropropane	0.236	0.228	3.4	112	0.00	11.57
86		Cyclohexanone	0.025	0.024	4.0	101	0.00	11.63
87		4-Chlorotoluene	2.468	2.789	-13.0	112	0.00	11.69

Initial Calibration Verification

Job Number: FA33788 **Sample:** VC4595-ICV4595
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115587.D
Project: BMSMC, Building 5 Area, Humacao, PR

		Amount	Calc.	%Drift			
88	tert-Butylbenzene	50.000	47.653	4.7	107	0.00	11.87
89	1,2,4-Trimethylbenzene	50.000	49.316	1.4	112	0.00	11.94
		AvgRF	CCRF	%Dev			
90	Pentachloroethane	0.538	0.582	-8.2	113	0.00	11.91
		Amount	Calc.	%Drift			
91	sec-Butylbenzene	50.000	52.602	-5.2	114	0.00	12.05
92	4-Isopropyltoluene	50.000	49.725	0.5	112	0.00	12.19
		AvgRF	CCRF	%Dev			
93	1,3-Dichlorobenzene	1.571	1.721	-9.5	118	0.00	12.30
94	1,4-Dichlorobenzene	1.514	1.642	-8.5	120	0.00	12.39
		Amount	Calc.	%Drift			
95	n-Butylbenzene	50.000	51.854	-3.7	113	0.00	12.63
		AvgRF	CCRF	%Dev			
96	Benzyl Chloride	0.305	0.333	-9.2	119	0.00	12.64
97	1,2-Dichlorobenzene	1.602	1.774	-10.7	119	0.00	12.83
98	1,2-Dibromo-3-Chloropropa	0.209	0.208	0.5	116	0.00	13.64
99	Hexachlorobutadiene	0.707	0.733	-3.7	115	0.00	14.22
100	1,2,4-Trichlorobenzene	1.147	1.315	-14.6	119	0.00	14.26
		Amount	Calc.	%Drift			
101	Naphthalene	50.000	59.053	-18.1	126	0.00	14.55
		AvgRF	CCRF	%Dev			
102	1,2,3-Trichlorobenzene	1.177	1.351	-14.8	123	0.00	14.71
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	91	0.00	4.52
104	Ethanol	0.075	0.087	-16.0	108	0.01	3.59
105	Acrolein	1.568	2.024	-29.1#	112	0.00	4.01
106	Tert butyl alcohol	1.272	1.401	-10.1	101	0.00	4.60
107	Isobutyl alcohol	0.244	0.263	-7.8	97	0.00	6.65
108	Tert Amyl Alcohol	0.954	1.070	-12.2	98	0.00	6.76
		Amount	Calc.	%Drift			
109	1,4-Dioxane	1000.000	1183.220	-18.3	121	0.00	7.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0115582.D 051216APP9-C-Soil.m Fri May 13 07:41:56 2016

6.7.2

6

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VC4595-ECC4595
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115600.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\051216\C0115600.D          Vial: 27
Acq On    : 12 May 2016   8:58 pm                     Operator: ericp
Sample    : ECC4595-4                                 Inst    : MSVOA5
Misc      : ms33860,vc4595,5.00,,,5,,                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\2\MET...216APP9-C-Soil.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Fri May 13 07:24:44 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	103	0.00	6.89
2	Dichlorodifluoromethane	0.564	0.658	-16.7	125	0.00	2.23
3 P	Chloromethane	0.532	0.650	-22.2	128	0.00	2.42
4 C	Vinyl Chloride	0.445	0.508	-14.2	122	0.00	2.53
		Amount	Calc.	%Drift			
5	Bromomethane	50.000	45.488	9.0	92	0.00	2.87
6	Chloroethane	50.000	49.208	1.6	97	0.00	3.02
		AvgRF	CCRF	%Dev			
7	Trichlorofluoromethane	0.571	0.547	4.2	98	0.00	3.17
8	Ethyl Ether	0.225	0.240	-6.7	109	0.00	3.44
		Amount	Calc.	%Drift			
9	1,2-Dichlorotrifluoroetha	50.000	57.570	-15.1	111	0.00	3.67
10 C	1,1-Dichloroethene	50.000	55.031	-10.1	107	0.00	3.67
11	Freon 113	50.000	59.969	-19.9	114	0.00	3.73
12	Carbon Disulfide	50.000	55.395	-10.8	107	0.00	3.71
		AvgRF	CCRF	%Dev			
13	Iodomethane	0.571	0.602	-5.4	113	0.00	3.83
		Amount	Calc.	%Drift			
14	Allyl chloride	50.000	54.523	-9.0	105	0.00	4.15
15	Methylene Chloride	50.000	54.845	-9.7	106	0.00	4.26
16	Acetone	250.000	237.673	4.9	96	0.00	4.31
17	Methyl acetate	250.000	284.699	-13.9	112	0.00	4.42
18	trans-1,2-Dichloroethene	50.000	54.055	-8.1	104	0.00	4.42
19	Hexane	50.000	58.857	-17.7	112	0.00	4.48
		AvgRF	CCRF	%Dev			
20	Methyl Tert Butyl Ether	0.824	0.845	-2.5	107	0.00	4.51
		Amount	Calc.	%Drift			
21	Acetonitrile	500.000	509.066	-1.8	103	0.00	4.79
		AvgRF	CCRF	%Dev			
22	Di-isopropyl ether	0.830	0.873	-5.2	106	0.00	4.88
23	Chloroprene	0.596	0.592	0.7	99	0.00	5.02
		Amount	Calc.	%Drift			
24 P	1,1-Dichloroethane	50.000	53.690	-7.4	104	0.00	5.05

Continuing Calibration Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VC4595-ECC4595
Lab FileID: C0115600.D

			AvgRF	CCRF	%Dev			
25		Acrylonitrile	0.060	0.058	3.3	105	0.00	5.11
26		ETBE	0.868	0.908	-4.6	106	0.00	5.25
			Amount	Calc.	%Drift			
27		Vinyl acetate	250.000	208.086	16.8	85	0.00	5.28
			AvgRF	CCRF	%Dev			
28		cis-1,2-Dichloroethene	0.388	0.402	-3.6	106	0.00	5.59
			Amount	Calc.	%Drift			
29		2,2-Dichloropropane	50.000	51.131	-2.3	95	0.00	5.71
			AvgRF	CCRF	%Dev			
30		Bromochloromethane	0.173	0.172	0.6	106	0.00	5.81
31		Cyclohexane	0.522	0.547	-4.8	109	0.00	5.81
			Amount	Calc.	%Drift			
32	C	Chloroform	50.000	53.430	-6.9	107	0.00	5.87
			AvgRF	CCRF	%Dev			
33		Ethyl acetate	0.153	0.151	1.3	102	0.00	5.96
			Amount	Calc.	%Drift			
34		Tetrahydrofuran	50.000	50.695	-1.4	106	0.00	6.04
			AvgRF	CCRF	%Dev			
35	S	Dibromofluoromethane	0.292	0.287	1.7	102	0.00	6.06
36		Carbon Tetrachloride	0.609	0.601	1.3	99	0.00	6.02
			Amount	Calc.	%Drift			
37		1,1,1-Trichloroethane	50.000	49.501	1.0	98	0.00	6.09
			AvgRF	CCRF	%Dev			
38		2-Butanone	0.089	0.083	6.7	96	0.00	6.18
39		1,1-Dichloropropene	0.453	0.455	-0.4	101	0.00	6.21
			Amount	Calc.	%Drift			
40		Propionitrile	500.000	479.485	4.1	98	0.00	6.51
			AvgRF	CCRF	%Dev			
41		Methacrylonitrile	0.109	0.104	4.6	96	0.00	6.52
42		Benzene	1.220	1.253	-2.7	103	0.00	6.48
43		TAME	0.773	0.772	0.1	101	0.00	6.56
44	S	1,2-Dichloroethane-d4	0.332	0.296	10.8	95	0.00	6.62
45		1,2-Dichloroethane	0.428	0.413	3.5	99	0.00	6.68
46		Trichloroethene	0.334	0.329	1.5	98	0.00	7.06
47		Methylcyclohexane	0.552	0.589	-6.7	107	0.00	7.05
48		Dibromomethane	0.191	0.182	4.7	92	0.00	7.50
49	C	1,2-Dichloropropane	0.282	0.279	1.1	92	0.00	7.59
50		Bromodichloromethane	0.419	0.404	3.6	95	0.00	7.64
			Amount	Calc.	%Drift			
51		Methyl methacrylate	50.000	51.821	-3.6	111	0.00	7.77
52		2-Chloroethyl vinyl ether	250.000	263.421	-5.4	116	0.00	8.19
			AvgRF	CCRF	%Dev			
53		cis-1,3-Dichloropropene	0.392	0.442	-12.8	111	0.00	8.27

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VC4595-ECC4595
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115600.D
Project: BMSMC, Building 5 Area, Humacao, PR

54	I	Chlorobenzene-d5	1.000	1.000	0.0	113	0.00	10.00
55	S	Toluene-d8	1.452	1.413	2.7	108	0.00	8.45
56	C	Toluene	1.691	1.742	-3.0	108	0.00	8.51
57		2-Nitropropane	0.086	0.082	4.7	103	0.00	8.74
58		4-Methyl-2-pentanone	0.290	0.290	0.0	101	0.00	8.87
59		trans-1,3-Dichloropropene	0.417	0.436	-4.6	116	0.00	8.92
60		Tetrachloroethene	0.426	0.423	0.7	112	0.00	8.89
		----------	Amount	Calc.	%Drift	----------		
61		Ethyl methacrylate	50.000	45.707	8.6	106	0.00	9.04
		----------	AvgRF	CCRF	%Dev	----------		
62		1,1,2-Trichloroethane	0.268	0.269	-0.4	110	0.00	9.08
63		Dibromochloromethane	0.371	0.387	-4.3	113	0.00	9.26
64		1,3-Dichloropropane	0.487	0.521	-7.0	116	0.00	9.36
65		1,2-Dibromoethane	0.285	0.305	-7.0	120	0.00	9.52
		----------	Amount	Calc.	%Drift	----------		
66		2-hexanone	250.000	235.339	5.9	107	0.00	9.69
67		1-Chlorohexane	50.000	50.270	-0.5	107	0.00	9.97
		----------	AvgRF	CCRF	%Dev	----------		
68	C	Ethylbenzene	1.773	1.797	-1.4	106	0.00	10.03
69	P	Chlorobenzene	0.999	1.002	-0.3	109	0.00	10.02
70		1,1,1,2-Tetrachloroethane	0.461	0.467	-1.3	108	0.00	10.08
71		m,p-Xylene	1.293	1.343	-3.9	103	0.00	10.17
		----------	Amount	Calc.	%Drift	----------		
72		o-Xylene	50.000	49.446	1.1	106	0.00	10.61
73		Styrene	50.000	49.939	0.1	107	0.00	10.67
		----------	AvgRF	CCRF	%Dev	----------		
74	P	Bromoform	0.181	0.180	0.6	115	0.00	10.72
		----------	Amount	Calc.	%Drift	----------		
75		Isopropylbenzene	50.000	50.201	-0.4	107	0.00	10.92
		----------	AvgRF	CCRF	%Dev	----------		
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00	12.37
77	S	4-Bromofluorobenzene	0.651	0.683	-4.9	121	0.00	11.23
		----------	Amount	Calc.	%Drift	----------		
78		cis-1,4-Dichloro-2-butene	50.000	44.959	10.1	117	0.00	11.28
79		n-Propylbenzene	50.000	45.488	9.0	102	0.00	11.34
		----------	AvgRF	CCRF	%Dev	----------		
80		Bromobenzene	0.794	0.809	-1.9	114	0.00	11.34
81	P	1,1,2,2-Tetrachloroethane	0.897	0.892	0.6	113	0.00	11.42
		----------	Amount	Calc.	%Drift	----------		
82		1,3,5-Trimethylbenzene	50.000	45.862	8.3	103	0.00	11.53
		----------	AvgRF	CCRF	%Dev	----------		
83		2-Chlorotoluene	3.007	3.012	-0.2	102	0.00	11.52
84		trans-1,4-Dichloro-2-Bute	0.144	0.153	-6.3	120	0.00	11.60
85		1,2,3-Trichloropropane	0.236	0.227	3.8	113	0.00	11.57
86		Cyclohexanone	0.025	0.027	-8.0	117	0.00	11.63
87		4-Chlorotoluene	2.468	2.427	1.7	98	0.00	11.69

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VC4595-ECC4595
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115600.D
Project: BMSMC, Building 5 Area, Humacao, PR

		Amount	Calc.	%Drift			
88	tert-Butylbenzene	50.000	46.851	6.3	106	0.00	11.87
89	1,2,4-Trimethylbenzene	50.000	43.651	12.7	100	0.00	11.94
		AvgRF	CCRF	%Dev			
90	Pentachloroethane	0.538	0.510	5.2	100	0.00	11.91
		Amount	Calc.	%Drift			
91	sec-Butylbenzene	50.000	49.208	1.6	108	0.00	12.05
92	4-Isopropyltoluene	50.000	43.388	13.2	100	0.00	12.19
		AvgRF	CCRF	%Dev			
93	1,3-Dichlorobenzene	1.571	1.453	7.5	100	0.00	12.30
94	1,4-Dichlorobenzene	1.514	1.367	9.7	101	0.00	12.39
		Amount	Calc.	%Drift			
95	n-Butylbenzene	50.000	40.517	19.0	90	0.00	12.63
		AvgRF	CCRF	%Dev			
96	Benzyl Chloride	0.305	0.278	8.9	100	0.00	12.64
97	1,2-Dichlorobenzene	1.602	1.592	0.6	107	0.00	12.83
98	1,2-Dibromo-3-Chloropropa	0.209	0.191	8.6	107	0.00	13.64
99	Hexachlorobutadiene	0.707	0.575	18.7	91	0.00	14.22
100	1,2,4-Trichlorobenzene	1.147	0.928	19.1	85	0.00	14.26
		Amount	Calc.	%Drift			
101	Naphthalene	50.000	49.283	1.4	107	0.00	14.55
		AvgRF	CCRF	%Dev			
102	1,2,3-Trichlorobenzene	1.177	1.069	9.2	98	0.00	14.71
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	102	0.00	4.52
104	Ethanol	0.075	0.078	-4.0	109	0.02	3.60
105	Acrolein	1.568	1.717	-9.5	107	0.00	4.01
106	Tert butyl alcohol	1.272	1.308	-2.8	107	0.00	4.59
107	Isobutyl alcohol	0.244	0.236	3.3	99	0.00	6.65
108	Tert Amyl Alcohol	0.954	1.006	-5.5	105	0.00	6.75
		Amount	Calc.	%Drift			
109	1,4-Dioxane	1000.000	1147.054	-14.7	133	0.00	7.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0115582.D 051216APP9-C-Soil.m Fri May 13 07:40:54 2016

6.7.3
6

Initial Calibration Summary

Job Number: FA33788 **Sample:** VF2649-ICC2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077211.D
Project: BMSMC, Building 5 Area, Humacao, PR

Response Factor Report MSVOA9

Method : C:\msdchem\1\METHODS\050916APP9-F.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue May 10 10:00:23 2016
Response via : Initial Calibration

Calibration Files
1 =F0077208.D 2 =F0077209.D 3 =F0077210.D 4 =F0077211.D
5 =F0077212.D 6 =F0077213.D 7 =F0077214.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.438	0.452	0.456	0.422	0.417	0.417	0.456	0.437	4.15
3)P Chloromethane	0.479	0.469	0.484	0.464	0.433	0.459	0.516	0.472	5.42
4)C Vinyl Chloride	0.528	0.482	0.523	0.492	0.483	0.506	0.554	0.510	5.27
5) Bromomethane	0.274	0.250	0.280	0.268	0.284	0.284	0.318	0.280	7.38
6) Chloroethane	0.143	0.237	0.251	0.229	0.189	0.170		0.203	20.77
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9984									
Response Ratio = 0.00000 + 0.24601 *A + -0.02574 *A^2									
7) Trichlorofluorome	0.405	0.590	0.554	0.588	0.537	0.568		0.540	12.85
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9984									
Response Ratio = 0.00000 + 0.54393 *A + 0.00643 *A^2									
8) Ethyl Ether	0.215	0.228	0.231	0.220	0.217	0.222	0.266	0.228	7.77
9) 1,2-Dichlorotrifl	0.452	0.411	0.431	0.418	0.418	0.415	0.467	0.430	4.99
10)C 1,1-Dichloroethen	0.677	0.641	0.650	0.650	0.630	0.648	0.718	0.659	4.46
11) Freon 113	0.399	0.402	0.440	0.370	0.366	0.364	0.392	0.391	6.93
12) Carbon Disulfide	1.254	1.202	1.285	1.222	1.222	1.232	1.347	1.252	3.97
13) Iodomethane	0.664	0.760	0.817	0.614	0.628	0.783	0.709	0.711	11.08
14) Allyl chloride	0.312	0.216	0.269	0.245	0.278	0.237		0.260	13.09
15) Methylene Chlorid	0.697	0.475	0.559	0.394	0.445	0.367		0.490	24.87
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9905									
Response Ratio = 0.00000 + 0.50846 *A + -0.04525 *A^2									
16) Acetone	0.103	0.085	0.106	0.077	0.092	0.090		0.092	11.95
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9962									
Response Ratio = 0.00000 + 0.08590 *A + 0.00029 *A^2									
17) Methyl acetate	0.197	0.153	0.204	0.179	0.184	0.182	0.216	0.188	10.87
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9959									
Response Ratio = 0.00000 + 0.14705 *A + 0.00322 *A^2									
18) trans-1,2-Dichlor	0.471	0.419	0.481	0.463	0.451	0.449	0.500	0.462	5.64
19) Hexane	0.304	0.219	0.276	0.250	0.254	0.248	0.257	0.258	10.18
20) Methyl Tert Butyl	0.848	0.819	0.847	0.812	0.799	0.786	0.909	0.832	4.96
21) Acetonitrile	0.036	0.035	0.035	0.031	0.033	0.033	0.037	0.034	5.90
22) Di-isopropyl ethe	1.044	1.012	1.039	1.001	0.984	0.946	1.069	1.014	4.09
23) Chloroprene	0.567	0.523	0.548	0.530	0.509	0.500	0.570	0.535	5.08
24)P 1,1-Dichloroethan	0.583	0.550	0.583	0.558	0.551	0.536	0.618	0.569	4.92
25) Acrylonitrile	0.107	0.096	0.102	0.091	0.093	0.094	0.113	0.099	8.16
26) ETBE	0.931	0.931	0.935	0.902	0.902	0.881	0.996	0.925	3.99
27) Vinyl acetate	0.601	0.589	0.618	0.556	0.535	0.486	0.514	0.557	8.65
28) cis-1,2-Dichloroe	0.366	0.357	0.378	0.369	0.361	0.351	0.337	0.360	3.67
29) 2,2-Dichloropropa	0.215	0.193	0.211	0.190	0.181	0.168	0.166	0.189	10.10
30) Bromochloromethan	0.186	0.174	0.167	0.176	0.168	0.165	0.161	0.171	4.89
31) Cyclohexane	0.634	0.637	0.666	0.621	0.607	0.600	0.629	0.628	3.49

Initial Calibration Summary

Job Number: FA33788 **Sample:** VF2649-ICC2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077211.D
Project: BMSMC, Building 5 Area, Humacao, PR

32)C	Chloroform	0.572	0.543	0.611	0.561	0.574	0.560	0.568	0.570	3.68
33)	Ethyl acetate	0.273	0.266	0.281	0.251	0.250	0.243	0.280	0.263	5.81
34)	Tetrahydrofuran	0.094	0.089	0.089	0.072	0.080	0.078	0.087	0.084	8.94
35)S	Dibromofluorometh	0.276	0.262	0.261	0.275	0.268	0.263	0.254	0.266	2.94
36)	Carbon Tetrachlor	0.356	0.345	0.372	0.360	0.386	0.377	0.369	0.366	3.71
37)	1,1,1-Trichloroet	0.359	0.345	0.358	0.346	0.347	0.322	0.322	0.343	4.42
38)	2-Butanone	0.173	0.154	0.162	0.140	0.141	0.141	0.162	0.153	8.45
39)	1,1-Dichloroprope	0.455	0.427	0.443	0.427	0.408	0.403	0.392	0.422	5.37
40)	Propionitrile	0.039	0.039	0.042	0.037	0.039	0.038	0.044	0.040	6.05
41)	Methacrylonitrile	0.180	0.168	0.180	0.157	0.160	0.154	0.182	0.169	7.12
42)	Benzene	1.192	1.222	1.327	1.219	1.223	1.172	1.174	1.218	4.31
43)	TAME	0.876	0.857	0.891	0.840	0.838	0.812	0.871	0.855	3.14
44)S	1,2-Dichloroethan	0.289	0.280	0.281	0.272	0.274	0.262	0.283	0.277	3.22
45)	1,2-Dichloroethan	0.393	0.378	0.391	0.365	0.363	0.347	0.387	0.375	4.51
46)	Trichloroethene	0.307	0.322	0.356	0.336	0.322	0.315	0.317	0.325	4.96
47)	Methylcyclohexane	0.560	0.573	0.632	0.581	0.568	0.565	0.558	0.577	4.46
48)	Dibromomethane	0.161	0.178	0.187	0.183	0.177	0.173	0.178	0.177	4.66
49)C	1,2-Dichloropropa	0.308	0.302	0.342	0.313	0.310	0.296	0.313	0.312	4.62
50)	Bromodichlorometh	0.311	0.307	0.352	0.362	0.356	0.362	0.375	0.346	7.67
51)	Methyl methacryla	0.240	0.249	0.230	0.218	0.220	0.217	0.253	0.232	6.44
52)	2-Chloroethyl vin	0.170	0.172	0.187	0.179	0.181	0.174	0.194	0.180	4.92
53)	cis-1,3-Dichlorop	0.392	0.412	0.461	0.453	0.434	0.411	0.460	0.432	6.37
54) I	Chlorobenzene-d5	----------ISTD----------								
55)S	Toluene-d8	1.326	1.358	1.307	1.414	1.416	1.323	1.241	1.341	4.63
56)C	Toluene	1.753	1.764	1.767	1.803	1.734	1.593	1.491	1.701	6.71
57)	2-Nitropropane	0.079	0.072	0.069	0.071	0.078	0.082	0.092	0.078	10.40
58)	4-Methyl-2-pentan	0.438	0.428	0.401	0.385	0.385	0.376	0.384	0.400	6.06
59)	trans-1,3-Dichlor	0.452	0.484	0.472	0.516	0.505	0.484	0.488	0.486	4.30
60)	Tetrachloroethene	0.390	0.398	0.437	0.462	0.455	0.402	0.375	0.417	8.18
61)	Ethyl methacrylat	0.443	0.455	0.450	0.466	0.450	0.430	0.440	0.448	2.56
62)	1,1,2-Trichloroet	0.285	0.293	0.301	0.310	0.296	0.280	0.276	0.292	4.12
63)	Dibromochlorometh	0.195	0.216	0.255	0.302	0.323	0.311	0.332	0.276	19.64
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9988									
	Response Ratio = 0.00000 + 0.28956 *A + 0.00998 *A^2									
64)	1,3-Dichloropropa	0.553	0.562	0.588	0.567	0.562	0.519	0.528	0.554	4.25
65)	1,2-Dibromoethane	0.338	0.336	0.341	0.345	0.342	0.317	0.321	0.334	3.31
66)	2-hexanone	0.302	0.317	0.302	0.286	0.290	0.282	0.298	0.297	4.02
67)	1-Chlorohexane	0.521	0.513	0.562	0.532	0.508	0.491	0.484	0.516	5.06
68)C	Ethylbenzene	1.806	1.830	1.829	1.872	1.778	1.727	1.663	1.786	3.97
69)P	Chlorobenzene	0.978	1.032	1.059	1.066	1.010	1.006	0.997	1.021	3.20
70)	1,1,1,2-Tetrachlo	0.303	0.294	0.297	0.322	0.324	0.334	0.347	0.317	6.29
71)	m,p-Xylene	1.329	1.356	1.342	1.360	1.288	1.246	1.144	1.295	6.02
72)	o-Xylene	1.315	1.376	1.297	1.384	1.330	1.349	1.315	1.338	2.45
73)	Styrene	0.955	1.019	0.986	1.072	1.025	1.042	1.031	1.019	3.74
74)P	Bromoform	0.049	0.065	0.079	0.113	0.134	0.163	0.192	0.114	46.53
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
	Response Ratio = 0.00000 + 0.07727 *A + 0.02868 *A^2									
75)	Isopropylbenzene	1.531	1.589	1.571	1.662	1.596	1.648	1.612	1.601	2.79
76) I	1,4-Dichlorobenzene-d	----------ISTD----------								
77)S	4-Bromofluorobenz	0.736	0.731	0.748	0.705	0.636	0.648	0.677	0.697	6.37
78)	cis-1,4-Dichloro-	0.220	0.215	0.243	0.218	0.216	0.222	0.238	0.225	4.98
79)	n-Propylbenzene	3.886	4.056	4.331	3.933	3.572	3.386	3.219	3.769	10.43
80)	Bromobenzene	0.790	0.832	0.869	0.830	0.766	0.785	0.818	0.813	4.30
81)P	1,1,2,2-Tetrachlo	0.831	0.908	0.936	0.828	0.779	0.806	0.828	0.845	6.62
82)	1,3,5-Trimethylbe	2.716	2.913	3.157	2.885	2.698	2.648	2.587	2.801	7.04
83)	2-Chlorotoluene	2.583	2.710	2.891	2.636	2.482	2.399	2.385	2.584	7.01

Initial Calibration Summary

Job Number: FA33788 **Sample:** VF2649-ICC2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077211.D
Project: BMSMC, Building 5 Area, Humacao, PR

84)	trans-1,4-Dichlor	0.244	0.241	0.251	0.223	0.227	0.221	0.243	0.236	5.08
85)	1,2,3-Trichloropr	0.197	0.217	0.242	0.207	0.199	0.203	0.213	0.211	7.30
86)	Cyclohexanone	0.048	0.046	0.045	0.039	0.038	0.037	0.038	0.041	10.78
87)	4-Chlorotoluene	2.365	2.403	2.603	2.395	2.195	2.100	1.999	2.294	9.02
88)	tert-Butylbenzene	1.628	1.717	1.890	1.683	1.639	1.599	1.627	1.683	5.90
89)	1,2,4-Trimethylbe	2.603	2.761	2.986	2.779	2.612	2.500	2.458	2.671	6.87
90)	Pentachloroethane	0.330	0.336	0.366	0.385	0.361	0.383	0.420	0.369	8.33
91)	sec-Butylbenzene	3.553	3.721	4.045	3.682	3.466	3.282	3.176	3.561	8.19
92)	4-Isopropyltoluen	2.744	2.933	3.150	3.015	2.793	2.705	2.553	2.842	7.15
93)	1,3-Dichlorobenze	1.454	1.506	1.595	1.525	1.406	1.335	1.343	1.452	6.69
94)	1,4-Dichlorobenze	1.523	1.579	1.630	1.563	1.438	1.370	1.317	1.489	7.80
95)	n-Butylbenzene	1.628	1.770	1.812	1.759	1.669	1.584	1.510	1.676	6.56
96)	Benzyl Chloride	0.238	0.233	0.257	0.270	0.274	0.294	0.319	0.269	11.34
97)	1,2-Dichlorobenze	1.396	1.460	1.525	1.470	1.379	1.342	1.342	1.416	4.94
98)	1,2-Dibromo-3-Chl	0.131	0.130	0.146	0.128	0.130	0.134	0.149	0.136	6.37
99)	Hexachlorobutadie	0.529	0.537	0.580	0.524	0.502	0.443	0.452	0.510	9.51
100)	1,2,4-Trichlorobe	0.954	0.990	0.980	1.002	0.907	0.778	0.791	0.915	10.29
101)	Naphthalene	2.231	2.361	2.402	2.270	2.198	2.016	2.111	2.227	6.07
102)	1,2,3-Trichlorobe	0.954	0.982	0.961	0.937	0.888	0.776	0.817	0.902	8.72
103)	I Tert Butyl Alcohol-d1 ----------ISTD----------									
104)	Ethanol	0.147	0.163	0.156	0.130	0.129	0.137	0.159	0.146	9.63
105)	Acrolein	1.986	2.020	1.951	2.006	1.791	1.758	2.266	1.968	8.54
106)	Tert butyl alcoho	1.173	1.230	1.125	1.118	1.065	1.123	1.089	1.132	4.84
107)	Isobutyl alcohol	0.330	0.405	0.355	0.335	0.341	0.360	0.427	0.365	10.18
108)	Tert Amyl Alcohol	0.964	1.181	1.084	1.112	1.059	1.160	1.208	1.110	7.52
109)	1,4-Dioxane	0.093	0.136	0.121	0.120	0.131	0.144	0.140	0.126	13.86

(#) = Out of Range

050916APP9-F.m Tue May 10 10:06:19 2016

6.7.4

6

Initial Calibration Verification

Job Number: FA33788 **Sample:** VF2649-ICV2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077216.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\050916\F0077216.D Vial: 14
Acq On : 9 May 2016 11:49 am Operator: ericp
Sample : ICV2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\050916APP9-F.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Tue May 10 10:00:23 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)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	93	0.00	7.08
2		Dichlorodifluoromethane	0.437	0.488	-11.7	108	0.00	2.22
3	P	Chloromethane	0.472	0.519	-10.0	104	0.00	2.44
4	C	Vinyl Chloride	0.510	0.545	-6.9	103	0.00	2.55
5		Bromomethane	0.280	0.311	-11.1	108	0.00	2.93
		----------	Amount	Calc.	%Drift		----------	
6		Chloroethane	50.000	59.674	-19.3	105	0.00	3.08
7		Trichlorofluoromethane	50.000	59.350	-18.7	104	0.00	3.23
		----------	AvgRF	CCRF	%Dev		----------	
8		Ethyl Ether	0.228	0.230	-0.9	98	0.00	3.54
9		1,2-Dichlorotrifluoroetha	0.430	0.462	-7.4	103	0.00	3.76
10	C	1,1-Dichloroethene	0.659	0.681	-3.3	98	0.00	3.78
11		Freon 113	0.391	0.425	-8.7	107	0.00	3.82
12		Carbon Disulfide	1.252	1.307	-4.4	100	0.00	3.84
13		Iodomethane	0.711	0.847	-19.1	128	0.00	3.96
14		Allyl chloride	0.260	0.214	17.7	81	0.00	4.27
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	46.720	6.6	103	0.00	4.41
16		Acetone	250.000	201.582	19.4	85	0.00	4.45
17		Methyl acetate	250.000	255.354	-2.1	87	0.00	4.56
		----------	AvgRF	CCRF	%Dev		----------	
18		trans-1,2-Dichloroethene	0.462	0.503	-8.9	101	0.00	4.57
19		Hexane	0.258	0.301	-16.7	112	-0.01	4.61
20		Methyl Tert Butyl Ether	0.832	0.867	-4.2	100	0.00	4.67
21		Acetonitrile	0.034	0.033	2.9	96	0.00	4.96
22		Di-isopropyl ether	1.014	1.058	-4.3	98	0.01	5.05
23		Chloroprene	0.535	0.501	6.4	88	0.00	5.17
24	P	1,1-Dichloroethane	0.569	0.607	-6.7	101	0.00	5.20
25		Acrylonitrile	0.099	0.105	-6.1	107	0.01	5.28
26		ETBE	0.925	0.947	-2.4	98	0.01	5.43
27		Vinyl acetate	0.557	0.634	-13.8	106	0.02	5.45
28		cis-1,2-Dichloroethene	0.360	0.383	-6.4	97	0.00	5.77
29		2,2-Dichloropropane	0.189	0.222	-17.5	109	0.00	5.88
30		Bromochloromethane	0.171	0.179	-4.7	95	0.00	5.99
31		Cyclohexane	0.628	0.638	-1.6	96	-0.01	5.99
32	C	Chloroform	0.570	0.598	-4.9	99	0.00	6.05
33		Ethyl acetate	0.263	0.294	-11.8	109	0.01	6.16
34		Tetrahydrofuran	0.084	0.094	-11.9	122	0.01	6.25

Initial Calibration Verification

Job Number: FA33788 **Sample:** VF2649-ICV2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077216.D
Project: BMSMC, Building 5 Area, Humacao, PR

35	S	Dibromofluoromethane	0.266	0.278	-4.5	94	0.00	6.24
36		Carbon Tetrachloride	0.366	0.423	-15.6	109	-0.01	6.21
37		1,1,1-Trichloroethane	0.343	0.370	-7.9	100	0.00	6.28
38		2-Butanone	0.153	0.141	7.8	93	0.01	6.38
39		1,1-Dichloropropene	0.422	0.472	-11.8	103	0.00	6.40
40		Propionitrile	0.040	0.043	-7.5	109	0.00	6.70
41		Methacrylonitrile	0.169	0.180	-6.5	107	0.00	6.71
42		Benzene	1.218	1.342	-10.2	103	0.00	6.66
43		TAME	0.855	0.861	-0.7	96	0.00	6.77
44	S	1,2-Dichloroethane-d4	0.277	0.278	-0.4	95	0.00	6.81
45		1,2-Dichloroethane	0.375	0.400	-6.7	102	0.00	6.88
46		Trichloroethene	0.325	0.358	-10.2	99	0.00	7.25
47		Methylcyclohexane	0.577	0.630	-9.2	101	0.00	7.25
48		Dibromomethane	0.177	0.198	-11.9	101	0.00	7.70
49	C	1,2-Dichloropropane	0.312	0.334	-7.1	100	0.00	7.79
50		Bromodichloromethane	0.346	0.384	-11.0	99	0.00	7.84
51		Methyl methacrylate	0.232	0.252	-8.6	107	0.00	7.97
52		2-Chloroethyl vinyl ether	0.180	0.192	-6.7	100	0.00	8.39
53		cis-1,3-Dichloropropene	0.432	0.486	-12.5	100	0.00	8.48
54	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00	10.22
55	S	Toluene-d8	1.341	1.442	-7.5	93	0.00	8.66
56	C	Toluene	1.701	1.975	-16.1	100	0.00	8.71
57		2-Nitropropane	0.078	0.078	0.0	100	0.00	8.95
58		4-Methyl-2-pentanone	0.400	0.406	-1.5	96	0.00	9.08
59		trans-1,3-Dichloropropene	0.486	0.573	-17.9	102	0.00	9.12
60		Tetrachloroethene	0.417	0.457	-9.6	90	0.00	9.10
61		Ethyl methacrylate	0.448	0.416	7.1	82	0.00	9.25
62		1,1,2-Trichloroethane	0.292	0.309	-5.8	91	0.00	9.28
		----------	Amount	Calc.	%Drift	----------		
63		Dibromochloromethane	50.000	51.497	-3.0	94	0.00	9.47
		----------	AvgRF	CCRF	%Dev	----------		
64		1,3-Dichloropropane	0.554	0.581	-4.9	94	0.00	9.56
65		1,2-Dibromoethane	0.334	0.343	-2.7	91	0.00	9.73
66		2-hexanone	0.297	0.293	1.3	94	0.00	9.90
67		1-Chlorohexane	0.516	0.566	-9.7	97	0.00	10.18
68	C	Ethylbenzene	1.786	2.023	-13.3	99	0.00	10.25
69	P	Chlorobenzene	1.021	1.139	-11.6	98	0.00	10.24
70		1,1,1,2-Tetrachloroethane	0.317	0.358	-12.9	102	0.00	10.29
71		m,p-Xylene	1.295	1.526	-17.8	103	0.00	10.39
72		o-Xylene	1.338	1.518	-13.5	100	0.00	10.82
73		Styrene	1.019	1.157	-13.5	99	0.00	10.88
		----------	Amount	Calc.	%Drift	----------		
74	P	Bromoform	50.000	58.561	-17.1	106	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
75		Isopropylbenzene	1.601	1.856	-15.9	102	0.00	11.13
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00	12.59
77	S	4-Bromofluorobenzene	0.697	0.696	0.1	93	0.00	11.44
78		cis-1,4-Dichloro-2-butene	0.225	0.219	2.7	95	0.00	11.50
79		n-Propylbenzene	3.769	4.356	-15.6	104	0.00	11.56
80		Bromobenzene	0.813	0.858	-5.5	97	0.00	11.56
81	P	1,1,2,2-Tetrachloroethane	0.845	0.873	-3.3	99	0.00	11.63
82		1,3,5-Trimethylbenzene	2.801	3.040	-8.5	99	0.00	11.75
83		2-Chlorotoluene	2.584	2.879	-11.4	103	0.00	11.74
84		trans-1,4-Dichloro-2-Bute	0.236	0.235	0.4	99	0.00	11.81

Initial Calibration Verification

Job Number: FA33788 **Sample:** VF2649-ICV2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077216.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	1,2,3-Trichloropropane	0.211	0.232	-10.0	106	0.00	11.78
86	Cyclohexanone	0.041	0.036	12.2	88	0.00	11.85
87	4-Chlorotoluene	2.294	2.598	-13.3	102	0.00	11.91
88	tert-Butylbenzene	1.683	1.846	-9.7	103	0.00	12.08
89	1,2,4-Trimethylbenzene	2.671	2.997	-12.2	102	0.00	12.16
90	Pentachloroethane	0.369	0.381	-3.3	93	0.00	12.13
91	sec-Butylbenzene	3.561	4.090	-14.9	105	0.00	12.27
92	4-Isopropyltoluene	2.842	3.223	-13.4	101	0.00	12.41
93	1,3-Dichlorobenzene	1.452	1.651	-13.7	102	0.00	12.52
94	1,4-Dichlorobenzene	1.489	1.683	-13.0	101	0.00	12.61
95	n-Butylbenzene	1.676	1.934	-15.4	104	0.00	12.85
96	Benzyl Chloride	0.269	0.283	-5.2	99	0.00	12.86
97	1,2-Dichlorobenzene	1.416	1.529	-8.0	98	0.00	13.06
98	1,2-Dibromo-3-Chloropropa	0.136	0.142	-4.4	105	0.00	13.85
99	Hexachlorobutadiene	0.510	0.555	-8.8	100	0.00	14.42
100	1,2,4-Trichlorobenzene	0.915	1.028	-12.3	97	0.00	14.46
101	Naphthalene	2.227	2.666	-19.7	111	0.00	14.74
102	1,2,3-Trichlorobenzene	0.902	1.023	-13.4	103	0.00	14.90
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	92	0.03	4.72
104	Ethanol	0.146	0.139	4.8	99	0.05	3.83
105	Acrolein	1.968	2.025	-2.9	93	0.00	4.14
106	Tert butyl alcohol	1.132	1.229	-8.6	102	0.03	4.79
107	Isobutyl alcohol	0.365	0.390	-6.8	107	0.02	6.88
108	Tert Amyl Alcohol	1.110	1.280	-15.3	106	0.02	6.98
109	1,4-Dioxane	0.126	0.154	-22.2#	119	0.00	8.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F0077211.D 050916APP9-F.m Tue May 10 10:05:29 2016

6.7.5

6

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VF2651-CC2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077271.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\051116\F0077271.D          Vial: 6
Acq On    : 11 May 2016   9:51 am                     Operator: ericp
Sample    : CC2649-4                                  Inst    : MSVOA9
Misc      : MS33830,vf2651,5.00,,,5,,                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\050916APP9-F.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Tue May 10 10:00:23 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)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	85	0.00	7.08
2		Dichlorodifluoromethane	0.437	0.472	-8.0	95	0.00	2.22
3	P	Chloromethane	0.472	0.506	-7.2	93	0.00	2.44
4	C	Vinyl Chloride	0.510	0.542	-6.3	94	0.00	2.54
5		Bromomethane	0.280	0.301	-7.5	96	0.00	2.93
		----------	Amount	Calc.	%Drift		----------	
6		Chloroethane	50.000	63.504	-27.0#	101	0.00	3.07
7		Trichlorofluoromethane	50.000	55.715	-11.4	89	0.00	3.23
		----------	AvgRF	CCRF	%Dev		----------	
8		Ethyl Ether	0.228	0.271	-18.9	105	0.00	3.54
9		1,2-Dichlorotrifluoroetha	0.430	0.479	-11.4	97	0.00	3.76
10	C	1,1-Dichloroethene	0.659	0.729	-10.6	95	0.00	3.78
11		Freon 113	0.391	0.415	-6.1	95	0.00	3.82
12		Carbon Disulfide	1.252	1.348	-7.7	94	0.00	3.85
13		Iodomethane	0.711	0.666	6.3	92	0.00	3.96
14		Allyl chloride	0.260	0.304	-16.9	105	0.00	4.27
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	56.957	-13.9	112	0.00	4.41
16		Acetone	250.000	308.369	-23.3#	120	0.00	4.44
17		Methyl acetate	250.000	314.650	-25.9#	100	0.00	4.55
		----------	AvgRF	CCRF	%Dev		----------	
18		trans-1,2-Dichloroethene	0.462	0.504	-9.1	93	0.00	4.57
19		Hexane	0.258	0.304	-17.8	103	0.00	4.62
20		Methyl Tert Butyl Ether	0.832	0.877	-5.4	92	0.00	4.65
21		Acetonitrile	0.034	0.037	-8.8	100	0.00	4.95
22		Di-isopropyl ether	1.014	1.107	-9.2	94	0.00	5.04
23		Chloroprene	0.535	0.560	-4.7	90	0.00	5.17
24	P	1,1-Dichloroethane	0.569	0.618	-8.6	94	0.00	5.20
25		Acrylonitrile	0.099	0.112	-13.1	105	0.00	5.26
26		ETBE	0.925	0.996	-7.7	94	0.00	5.42
27		Vinyl acetate	0.557	0.657	-18.0	101	0.01	5.44
28		cis-1,2-Dichloroethene	0.360	0.393	-9.2	91	0.00	5.77
29		2,2-Dichloropropane	0.189	0.205	-8.5	91	0.00	5.88
30		Bromochloromethane	0.171	0.186	-8.8	90	0.00	5.98
31		Cyclohexane	0.628	0.694	-10.5	95	0.00	6.00
32	C	Chloroform	0.570	0.656	-15.1	99	0.00	6.04
33		Ethyl acetate	0.263	0.302	-14.8	102	0.00	6.15
34		Tetrahydrofuran	0.084	0.086	-2.4	101	0.00	6.24

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VF2651-CC2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077271.D
Project: BMSMC, Building 5 Area, Humacao, PR

35	S	Dibromofluoromethane	0.266	0.288	-8.3	89	0.00	6.24
36		Carbon Tetrachloride	0.366	0.414	-13.1	98	0.00	6.21
37		1,1,1-Trichloroethane	0.343	0.384	-12.0	95	0.00	6.28
38		2-Butanone	0.153	0.169	-10.5	102	0.00	6.37
39		1,1-Dichloropropene	0.422	0.475	-12.6	95	0.00	6.40
40		Propionitrile	0.040	0.043	-7.5	99	0.00	6.69
41		Methacrylonitrile	0.169	0.189	-11.8	103	0.00	6.70
42		Benzene	1.218	1.366	-12.2	95	0.00	6.66
43		TAME	0.855	0.902	-5.5	91	0.00	6.75
44	S	1,2-Dichloroethane-d4	0.277	0.291	-5.1	91	0.00	6.80
45		1,2-Dichloroethane	0.375	0.406	-8.3	95	0.00	6.88
46		Trichloroethene	0.325	0.340	-4.6	86	0.00	7.25
47		Methylcyclohexane	0.577	0.601	-4.2	88	0.00	7.25
48		Dibromomethane	0.177	0.177	0.0	82	0.00	7.69
49	C	1,2-Dichloropropane	0.312	0.303	2.9	82	0.00	7.79
50		Bromodichloromethane	0.346	0.335	3.2	79	0.00	7.84
51		Methyl methacrylate	0.232	0.227	2.2	89	0.00	7.97
52		2-Chloroethyl vinyl ether	0.180	0.174	3.3	83	0.00	8.39
53		cis-1,3-Dichloropropene	0.432	0.404	6.5	76	0.00	8.47
54	I	Chlorobenzene-d5	1.000	1.000	0.0	82	0.00	10.22
55	S	Toluene-d8	1.341	1.244	7.2	72	0.00	8.66
56	C	Toluene	1.701	1.710	-0.5	78	0.00	8.71
57		2-Nitropropane	0.078	0.069	11.5	80	0.00	8.95
58		4-Methyl-2-pentanone	0.400	0.431	-7.7	92	0.00	9.07
59		trans-1,3-Dichloropropene	0.486	0.490	-0.8	78	0.00	9.11
60		Tetrachloroethene	0.417	0.397	4.8	71	0.00	9.10
61		Ethyl methacrylate	0.448	0.436	2.7	77	0.00	9.24
62		1,1,2-Trichloroethane	0.292	0.288	1.4	76	0.00	9.28
		----------	Amount	Calc.	%Drift	----------		
63		Dibromochloromethane	50.000	48.715	2.6	79	0.00	9.47
		----------	AvgRF	CCRF	%Dev	----------		
64		1,3-Dichloropropane	0.554	0.561	-1.3	81	0.00	9.56
65		1,2-Dibromoethane	0.334	0.324	3.0	77	0.00	9.72
66		2-hexanone	0.297	0.321	-8.1	92	0.00	9.90
67		1-Chlorohexane	0.516	0.534	-3.5	82	0.00	10.18
68	C	Ethylbenzene	1.786	1.878	-5.2	82	0.00	10.25
69	P	Chlorobenzene	1.021	1.072	-5.0	82	0.00	10.24
70		1,1,1,2-Tetrachloroethane	0.317	0.319	-0.6	81	0.00	10.29
71		m,p-Xylene	1.295	1.450	-12.0	87	0.00	10.39
72		o-Xylene	1.338	1.422	-6.3	84	0.00	10.82
73		Styrene	1.019	1.092	-7.2	84	0.00	10.88
		----------	Amount	Calc.	%Drift	----------		
74	P	Bromoform	50.000	60.840	-21.7#	99	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
75		Isopropylbenzene	1.601	1.727	-7.9	85	0.00	11.13
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	85	0.00	12.59
77	S	4-Bromofluorobenzene	0.697	0.655	6.0	79	0.00	11.44
78		cis-1,4-Dichloro-2-butene	0.225	0.226	-0.4	89	0.00	11.49
79		n-Propylbenzene	3.769	3.976	-5.5	86	0.00	11.55
80		Bromobenzene	0.813	0.798	1.8	82	0.00	11.56
81	P	1,1,2,2-Tetrachloroethane	0.845	0.849	-0.5	88	0.00	11.63
82		1,3,5-Trimethylbenzene	2.801	2.947	-5.2	87	0.00	11.75
83		2-Chlorotoluene	2.584	2.710	-4.9	88	0.00	11.74
84		trans-1,4-Dichloro-2-Bute	0.236	0.237	-0.4	91	0.00	11.82

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VF2651-CC2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077271.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	1,2,3-Trichloropropane	0.211	0.217	-2.8	89	0.00	11.78
86	Cyclohexanone	0.041	0.042	-2.4	91	0.00	11.85
87	4-Chlorotoluene	2.294	2.446	-6.6	87	0.00	11.91
88	tert-Butylbenzene	1.683	1.713	-1.8	87	0.00	12.08
89	1,2,4-Trimethylbenzene	2.671	2.793	-4.6	86	0.00	12.16
90	Pentachloroethane	0.369	0.370	-0.3	82	0.00	12.13
91	sec-Butylbenzene	3.561	3.771	-5.9	88	0.00	12.27
92	4-Isopropyltoluene	2.842	3.020	-6.3	86	0.00	12.41
93	1,3-Dichlorobenzene	1.452	1.540	-6.1	86	0.00	12.52
94	1,4-Dichlorobenzene	1.489	1.581	-6.2	87	0.00	12.61
95	n-Butylbenzene	1.676	1.826	-8.9	89	0.00	12.85
96	Benzyl Chloride	0.269	0.271	-0.7	86	0.00	12.86
97	1,2-Dichlorobenzene	1.416	1.450	-2.4	84	0.00	13.06
98	1,2-Dibromo-3-Chloropropa	0.136	0.133	2.2	89	0.00	13.85
99	Hexachlorobutadiene	0.510	0.519	-1.8	85	0.00	14.42
100	1,2,4-Trichlorobenzene	0.915	1.017	-11.1	87	0.00	14.46
101	Naphthalene	2.227	2.405	-8.0	91	0.00	14.74
102	1,2,3-Trichlorobenzene	0.902	0.984	-9.1	90	0.00	14.90
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	103	0.00	4.69
104	Ethanol	0.146	0.120	17.8	94	-0.04	3.74
105	Acrolein	1.968	1.921	2.4	98	0.00	4.13
106	Tert butyl alcohol	1.132	1.014	10.4	93	0.00	4.76
107	Isobutyl alcohol	0.365	0.323	11.5	99	0.00	6.84
108	Tert Amyl Alcohol	1.110	0.959	13.6	89	0.00	6.95
109	1,4-Dioxane	0.126	0.093	26.2#	80	-0.01	8.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F0077211.D 050916APP9-F.m Thu May 12 08:14:33 2016

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VF2651-ECC2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077297.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\051116\F0077297.D          Vial: 32
Acq On    : 11 May 2016   7:51 pm                     Operator: ericp
Sample    : ECC2649-4                                 Inst    : MSVOA9
Misc      : MS33843,vf2651,5.00,,,5,,                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\050916APP9-F.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Tue May 10 10:00:23 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	64	0.00	7.08
2		Dichlorodifluoromethane	0.437	0.509	-16.5	77	0.00	2.22
3	P	Chloromethane	0.472	0.547	-15.9	75	0.00	2.44
4	C	Vinyl Chloride	0.510	0.598	-17.3	77	0.00	2.55
5		Bromomethane	0.280	0.332	-18.6	79	0.00	2.93
		----------	Amount	Calc.	%Drift		----------	
6		Chloroethane	50.000	71.631	-43.3	83	0.00	3.07
7		Trichlorofluoromethane	50.000	58.192	-16.4	69	0.00	3.24
		----------	AvgRF	CCRF	%Dev		----------	
8		Ethyl Ether	0.228	0.267	-17.1	77	0.00	3.54
9		1,2-Dichlorotrifluoroetha	0.430	0.512	-19.1	78	0.00	3.75
10	C	1,1-Dichloroethene	0.659	0.766	-16.2	75	0.00	3.78
11		Freon 113	0.391	0.538	-37.6	92	0.00	3.82
12		Carbon Disulfide	1.252	1.477	-18.0	77	0.00	3.85
13		Iodomethane	0.711	0.991	-39.4	102	0.00	3.96
14		Allyl chloride	0.260	0.352	-35.4	91	0.00	4.27
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	53.979	-8.0	80	0.00	4.41
16		Acetone	250.000	310.802	-24.3	90	0.00	4.45
17		Methyl acetate	250.000	339.799	-35.9	81	0.00	4.56
		----------	AvgRF	CCRF	%Dev		----------	
18		trans-1,2-Dichloroethene	0.462	0.536	-16.0	74	0.00	4.57
19		Hexane	0.258	0.321	-24.4	82	0.00	4.62
20		Methyl Tert Butyl Ether	0.832	0.992	-19.2	78	0.00	4.66
21		Acetonitrile	0.034	0.040	-17.6	81	0.00	4.96
22		Di-isopropyl ether	1.014	1.145	-12.9	73	0.00	5.04
23		Chloroprene	0.535	0.599	-12.0	72	0.00	5.17
24	P	1,1-Dichloroethane	0.569	0.654	-14.9	75	0.00	5.20
25		Acrylonitrile	0.099	0.116	-17.2	81	0.00	5.27
26		ETBE	0.925	1.021	-10.4	72	0.00	5.43
27		Vinyl acetate	0.557	0.639	-14.7	73	0.02	5.45
28		cis-1,2-Dichloroethene	0.360	0.401	-11.4	69	0.00	5.77
29		2,2-Dichloropropane	0.189	0.220	-16.4	73	0.00	5.88
30		Bromochloromethane	0.171	0.189	-10.5	68	0.00	5.99
31		Cyclohexane	0.628	0.747	-18.9	76	-0.01	5.99
32	C	Chloroform	0.570	0.641	-12.5	73	0.00	6.05
33		Ethyl acetate	0.263	0.318	-20.9	80	0.00	6.16
34		Tetrahydrofuran	0.084	0.090	-7.1	79	0.00	6.24

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VF2651-ECC2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077297.D
Project: BMSMC, Building 5 Area, Humacao, PR

35	S	Dibromofluoromethane	0.266	0.292	-9.8	68	0.00	6.24
36		Carbon Tetrachloride	0.366	0.434	-18.6	77	0.00	6.21
37		1,1,1-Trichloroethane	0.343	0.417	-21.6	77	0.00	6.28
38		2-Butanone	0.153	0.171	-11.8	78	0.00	6.38
39		1,1-Dichloropropene	0.422	0.468	-10.9	70	0.00	6.40
40		Propionitrile	0.040	0.046	-15.0	78	0.00	6.70
41		Methacrylonitrile	0.169	0.201	-18.9	81	0.00	6.71
42		Benzene	1.218	1.350	-10.8	70	0.00	6.66
43		TAME	0.855	0.873	-2.1	66	0.00	6.76
44	S	1,2-Dichloroethane-d4	0.277	0.290	-4.7	68	0.00	6.80
45		1,2-Dichloroethane	0.375	0.416	-10.9	72	0.00	6.88
46		Trichloroethene	0.325	0.323	0.6	61	0.00	7.25
47		Methylcyclohexane	0.577	0.621	-7.6	68	0.00	7.25
48		Dibromomethane	0.177	0.178	-0.6	62	0.00	7.69
49	C	1,2-Dichloropropane	0.312	0.323	-3.5	66	0.00	7.79
50		Bromodichloromethane	0.346	0.338	2.3	59	0.00	7.84
51		Methyl methacrylate	0.232	0.225	3.0	65	0.00	7.97
52		2-Chloroethyl vinyl ether	0.180	0.186	-3.3	66	0.00	8.39
53		cis-1,3-Dichloropropene	0.432	0.411	4.9	58	0.00	8.47
54	I	Chlorobenzene-d5	1.000	1.000	0.0	61	0.00	10.22
55	S	Toluene-d8	1.341	1.332	0.7	58	0.00	8.66
56	C	Toluene	1.701	1.741	-2.4	59	0.00	8.71
57		2-Nitropropane	0.078	0.067	14.1	58	0.00	8.95
58		4-Methyl-2-pentanone	0.400	0.452	-13.0	72	0.00	9.07
59		trans-1,3-Dichloropropene	0.486	0.488	-0.4	58	0.00	9.12
60		Tetrachloroethene	0.417	0.407	2.4	54	0.00	9.10
61		Ethyl methacrylate	0.448	0.438	2.2	58	0.00	9.24
62		1,1,2-Trichloroethane	0.292	0.308	-5.5	61	0.00	9.28
		----------	Amount	Calc.	%Drift	----------		
63		Dibromochloromethane	50.000	48.154	3.7	59	0.00	9.47
		----------	AvgRF	CCRF	%Dev	----------		
64		1,3-Dichloropropane	0.554	0.582	-5.1	63	0.00	9.56
65		1,2-Dibromoethane	0.334	0.322	3.6	57	0.00	9.72
66		2-hexanone	0.297	0.327	-10.1	70	0.00	9.90
67		1-Chlorohexane	0.516	0.465	9.9	54	0.00	10.18
68	C	Ethylbenzene	1.786	1.839	-3.0	60	0.00	10.24
69	P	Chlorobenzene	1.021	1.034	-1.3	60	0.00	10.24
70		1,1,1,2-Tetrachloroethane	0.317	0.316	0.3	60	0.00	10.29
71		m,p-Xylene	1.295	1.324	-2.2	60	0.00	10.39
72		o-Xylene	1.338	1.349	-0.8	60	0.00	10.82
73		Styrene	1.019	0.977	4.1	56	0.00	10.88
		----------	Amount	Calc.	%Drift	----------		
74	P	Bromoform	50.000	56.688	-13.4	68	0.00	10.93
		----------	AvgRF	CCRF	%Dev	----------		
75		Isopropylbenzene	1.601	1.630	-1.8	60	0.00	11.13
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	62	0.00	12.59
77	S	4-Bromofluorobenzene	0.697	0.640	8.2	56	0.00	11.44
78		cis-1,4-Dichloro-2-butene	0.225	0.216	4.0	61	0.00	11.49
79		n-Propylbenzene	3.769	3.631	3.7	57	0.00	11.55
80		Bromobenzene	0.813	0.753	7.4	56	0.00	11.56
81	P	1,1,2,2-Tetrachloroethane	0.845	0.905	-7.1	68	0.00	11.63
82		1,3,5-Trimethylbenzene	2.801	2.680	4.3	58	0.00	11.75
83		2-Chlorotoluene	2.584	2.488	3.7	58	0.00	11.74
84		trans-1,4-Dichloro-2-Bute	0.236	0.224	5.1	62	0.00	11.82

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VF2651-ECC2649
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** F0077297.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	1,2,3-Trichloropropane	0.211	0.226	-7.1	68	0.00	11.78
86	Cyclohexanone	0.041	0.042	-2.4	66	0.00	11.85
87	4-Chlorotoluene	2.294	2.067	9.9	53	0.00	11.91
88	tert-Butylbenzene	1.683	1.717	-2.0	63	0.00	12.08
89	1,2,4-Trimethylbenzene	2.671	2.488	6.9	55	0.00	12.16
90	Pentachloroethane	0.369	0.310	16.0	50#	0.00	12.13
91	sec-Butylbenzene	3.561	3.571	-0.3	60	0.00	12.27
92	4-Isopropyltoluene	2.842	2.569	9.6	53	0.00	12.41
93	1,3-Dichlorobenzene	1.452	1.240	14.6	50	0.00	12.52
94	1,4-Dichlorobenzene	1.489	1.229	17.5	49#	0.00	12.61
95	n-Butylbenzene	1.676	1.360	18.9	48#	0.00	12.85
96	Benzyl Chloride	0.269	0.195	27.5	45#	0.00	12.86
97	1,2-Dichlorobenzene	1.416	1.270	10.3	54	0.00	13.06
98	1,2-Dibromo-3-Chloropropa	0.136	0.129	5.1	63	0.00	13.85
99	Hexachlorobutadiene	0.510	0.426	16.5	50	0.00	14.42
100	1,2,4-Trichlorobenzene	0.915	0.657	28.2	41#	0.00	14.46
101	Naphthalene	2.227	2.161	3.0	59	0.00	14.74
102	1,2,3-Trichlorobenzene	0.902	0.758	16.0	50	0.00	14.90
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	81	0.02	4.71
104	Ethanol	0.146	0.138	5.5	85	0.04	3.82
105	Acrolein	1.968	1.657	15.8	67	0.00	4.14
106	Tert butyl alcohol	1.132	1.085	4.2	78	0.02	4.79
107	Isobutyl alcohol	0.365	0.331	9.3	80	0.01	6.86
108	Tert Amyl Alcohol	1.110	0.942	15.1	68	0.00	6.97
109	1,4-Dioxane	0.126	0.099	21.4	66	-0.01	8.07

(#) = Out of Range SPCC's out = 0 CCC's out = 0
F0077211.D 050916APP9-F.m Thu May 12 08:13:37 2016

Initial Calibration Summary

Job Number: FA33788 **Sample:** VJ5237-ICC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975154.D
Project: BMSMC, Building 5 Area, Humacao, PR

Response Factor Report MSVOA6

Method : C:\msdchem\2\methods\MSJ031516.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Calibration Files
1 =J0975150.D 2 =J0975151.D 3 =J0975152.D 4 =J0975153.D
5 =J0975154.D 6 =J0975155.D 7 =J0975156.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.226	0.305	0.314	0.308	0.327	0.342	0.332	0.308	12.46
3)P Chloromethane	0.335	0.301	0.320	0.324	0.334	0.351	0.340	0.329	4.86
4)C Vinyl Chloride	0.306	0.335	0.326	0.343	0.351	0.357	0.343	0.337	5.08
5) 1,3-Butadiene	0.236	0.241	0.269	0.252	0.249	0.264	0.245	0.251	4.77
6) Bromomethane	0.330	0.262	0.247	0.239	0.228	0.219	0.189	0.245	17.99
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990									
Response Ratio = 0.00000 + 0.26348 *A + -0.03644 *A^2									
7) Chloroethane	0.215	0.175	0.178	0.175	0.164	0.158		0.178	11.29
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997									
Response Ratio = 0.00000 + 0.17878 *A + -0.01522 *A^2									
8) Trichlorofluorome	0.349	0.410	0.421	0.423	0.442	0.461	0.424	0.419	8.36
9) Ethyl Ether	0.182	0.184	0.195	0.194	0.201	0.199	0.198	0.193	3.78
10) 1,2-Dichlorotrifl	0.298	0.273	0.294	0.289	0.298	0.290	0.293	0.291	2.94
11)C 1,1-Dichloroethen	0.379	0.323	0.361	0.360	0.366	0.371	0.374	0.362	5.07
12) Freon 113	0.245	0.237	0.254	0.253	0.254	0.252	0.257	0.250	2.71
13) Carbon Disulfide	0.730	0.678	0.750	0.760	0.772	0.781	0.805	0.754	5.44
14) Iodomethane	0.407	0.373	0.395	0.393	0.409	0.405	0.418	0.400	3.68
15) Allyl chloride	0.286	0.321	0.336	0.334	0.336	0.377	0.351	0.335	8.31
16) Methylene Chlorid	0.637	0.344	0.339	0.327	0.332	0.317	0.319	0.374	31.16
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997									
Response Ratio = 0.00000 + 0.33127 *A + -0.00672 *A^2									
17) Acetone	0.014	0.017	0.016	0.015	0.014	0.015	0.014	0.015	7.86
18) Methyl acetate	0.028	0.029	0.028	0.029	0.030	0.030	0.030	0.029	3.89
19) trans-1,2-Dichlor	0.330	0.306	0.333	0.332	0.342	0.341	0.343	0.332	3.84
20) Hexane	0.206	0.202	0.219	0.216	0.219	0.216	0.215	0.213	3.17
21) Methyl Tert Butyl	0.660	0.619	0.646	0.664	0.689	0.679	0.682	0.663	3.67
22) Acetonitrile	0.015	0.014	0.012	0.009	0.009	0.010	0.009	0.011	22.87
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9971									
Response Ratio = 0.00000 + 0.00954 *A + -0.00002 *A^2									
23) Di-isopropyl ethe	0.775	0.685	0.741	0.755	0.797	0.780	0.778	0.759	4.90
24) Chloroprene	0.322	0.323	0.353	0.351	0.369	0.402	0.382	0.357	8.29
25)P 1,1-Dichloroethan	0.468	0.411	0.443	0.436	0.450	0.447	0.452	0.444	3.95
26) Acrylonitrile	0.074	0.063	0.066	0.066	0.064	0.068	0.063	0.066	6.02
27) ETBE	0.704	0.682	0.741	0.781	0.815	0.795	0.801	0.760	6.80
28) Vinyl acetate	0.374	0.384	0.400	0.402	0.397	0.391	0.341	0.384	5.59
29) cis-1,2-Dichloroe	0.285	0.271	0.280	0.280	0.296	0.289	0.294	0.285	3.00
30) 2,2-Dichloropropa	0.357	0.301	0.344	0.342	0.356	0.358	0.366	0.346	6.31
31) Bromochloromethan	0.119	0.129	0.132	0.126	0.135	0.130	0.131	0.129	4.03
32) Cyclohexane	0.410	0.364	0.415	0.424	0.432	0.432	0.445	0.417	6.30
33)C Chloroform	0.515	0.467	0.484	0.491	0.504	0.493	0.496	0.493	3.09
34) Ethyl acetate	0.157	0.155	0.155	0.156	0.152	0.158	0.149	0.154	2.13

Initial Calibration Summary

Job Number: FA33788 **Sample:** VJ5237-ICC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975154.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
35)  Tetrahydrofuran   0.104 0.052 0.047 0.044 0.044 0.044 0.042 0.054  41.52
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.04630 *A + -0.00198 *A^2

36)S Dibromofluorometh 0.250 0.255 0.253 0.252 0.257 0.254 0.255 0.254   0.97
37)  Carbon Tetrachlor 0.330 0.312 0.318 0.342 0.362 0.363 0.370 0.343   6.72
38)  1,1,1-Trichloroet 0.416 0.375 0.425 0.415 0.438 0.436 0.446 0.421   5.61
39)  2-Butanone        0.082 0.058 0.062 0.062 0.064 0.067 0.065 0.066  11.50
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.06439 *A + 0.00008 *A^2

40)  1,1-Dichloroprope 0.343 0.311 0.333 0.342 0.348 0.350 0.355 0.340   4.29
41)  tert-Butyl Format 0.126 0.128 0.140 0.152 0.153 0.158 0.153 0.144   8.96
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.15510 *A + -0.00004 *A^2

42)  Propionitrile     0.025 0.022 0.023 0.022 0.022 0.024 0.022 0.023   5.22
43)  Methacrylonitrile 0.113 0.119 0.118 0.102 0.099 0.104 0.092 0.107   9.60
44)  Benzene           1.059 0.971 0.998 1.041 1.070 1.058 1.054 1.036   3.54
45)  TAME              0.673 0.616 0.654 0.689 0.727 0.716 0.724 0.686   6.02
46)S 1,2-Dichloroethan 0.307 0.314 0.312 0.312 0.304 0.302 0.297 0.307   2.01
47)  1,2-Dichloroethan 0.429 0.351 0.353 0.352 0.361 0.347 0.345 0.363   8.20
48)  Trichloroethene   0.274 0.243 0.267 0.267 0.271 0.277 0.280 0.268   4.61
49)  Methylcyclohexane 0.410 0.398 0.456 0.458 0.471 0.473 0.491 0.451   7.63
50)  Dibromomethane    0.164 0.141 0.141 0.144 0.156 0.152 0.150 0.150   5.69
51)C 1,2-Dichloropropa 0.276 0.239 0.251 0.257 0.270 0.263 0.265 0.260   4.85
52)  Bromodichlorometh 0.318 0.299 0.327 0.330 0.351 0.353 0.357 0.334   6.38
53)  Methyl methacryla 0.107 0.131 0.136 0.139 0.143 0.159 0.149 0.138  11.83
54)  2-Chloroethyl vin 0.116 0.121 0.129 0.139 0.136 0.143 0.140 0.132   7.93
55)  cis-1,3-Dichlorop 0.323 0.319 0.361 0.389 0.410 0.410 0.415 0.375  11.08
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.39315 *A + 0.01136 *A^2


56) I   Chlorobenzene-d5      ----------------ISTD---------------------
57)S Toluene-d8        1.355 1.347 1.323 1.321 1.300 1.298 1.265 1.315   2.35
58)C Toluene           1.653 1.365 1.460 1.446 1.471 1.407 1.336 1.448   7.11
59)  2-Nitropropane    0.042 0.045 0.049 0.055 0.059 0.057 0.056 0.052  12.75
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.05795 *A + -0.00013 *A^2

60)  4-Methyl-2-pentan 0.205 0.199 0.211 0.211 0.212 0.212 0.197 0.207   3.18
61)  trans-1,3-Dichlor 0.363 0.367 0.402 0.430 0.466 0.456 0.447 0.419  10.05
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.45690 *A + -0.00394 *A^2

62)  Tetrachloroethene 0.394 0.342 0.379 0.383 0.402 0.391 0.418 0.387   6.11
63)  Ethyl methacrylat 0.241 0.301 0.329 0.344 0.354 0.385 0.362 0.331  14.40
64)  1,1,2-Trichloroet 0.239 0.219 0.236 0.239 0.248 0.240 0.233 0.236   3.73
65)  Dibromochlorometh 0.286 0.270 0.283 0.301 0.323 0.321 0.319 0.300   7.15
66)  1,3-Dichloropropa 0.516 0.449 0.471 0.483 0.505 0.484 0.470 0.483   4.63
67)  1,2-Dibromoethane 0.286 0.233 0.261 0.268 0.284 0.274 0.268 0.268   6.68
68)  2-hexanone        0.127 0.127 0.137 0.141 0.144 0.145 0.137 0.137   5.38
69)  1-Chlorohexane    0.374 0.365 0.429 0.433 0.455 0.460 0.457 0.425   9.29
70)C Ethylbenzene      1.800 1.588 1.686 1.674 1.710 1.611 1.489 1.651   6.01
71)P Chlorobenzene     1.070 0.900 0.950 0.938 0.995 0.954 0.934 0.963   5.72
72)  1,1,1,2-Tetrachlo 0.297 0.290 0.298 0.315 0.335 0.330 0.329 0.313   5.94
73)  m,p-Xylene        1.246 1.163 1.285 1.281 1.283 1.151 0.989 1.200   9.06
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 1.44860 *A + -0.11321 *A^2
```

Initial Calibration Summary

Job Number: FA33788 **Sample:** VJ5237-ICC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975154.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
 74)  o-Xylene          1.242 1.170 1.286 1.311 1.364 1.312 1.246 1.276   4.93
 75)  Styrene           0.778 0.811 0.917 0.997 1.036 1.013 0.989 0.934  11.01
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 1.03569 *A + -0.02194 *A^2

 76)P Bromoform         0.141 0.150 0.163 0.182 0.193 0.199 0.200 0.175  13.84
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.18423 *A + 0.00857 *A^2

 77)  Isopropylbenzene  1.347 1.359 1.510 1.550 1.598 1.525 1.432 1.474   6.56

 78) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 79)S 4-Bromofluorobenz 0.921 0.908 0.904 0.900 0.902 0.910 0.885 0.904   1.20
 80)  cis-1,4-Dichloro- 0.142 0.152 0.160 0.165 0.165 0.185 0.168 0.162   8.31
 81)  n-Propylbenzene   3.234 3.011 3.289 3.294 3.344 3.138 2.897 3.173   5.22
 82)  Bromobenzene      0.772 0.702 0.735 0.728 0.771 0.760 0.761 0.747   3.50
 83)P 1,1,2,2-Tetrachlo 0.630 0.569 0.592 0.600 0.626 0.607 0.596 0.603   3.46
 84)  1,3,5-Trimethylbe 2.140 2.215 2.428 2.494 2.610 2.517 2.400 2.401   6.99
 85)  2-Chlorotoluene   2.404 2.202 2.363 2.370 2.400 2.324 2.238 2.329   3.42
 86)  trans-1,4-Dichlor 0.105 0.116 0.141 0.148 0.153 0.157 0.156 0.140  14.80
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.15022 *A + 0.00335 *A^2

 87)  1,2,3-Trichloropr 0.149 0.146 0.154 0.150 0.161 0.160 0.156 0.154   3.69
 88)  Cyclohexanone     0.011 0.009 0.010 0.009 0.009 0.010 0.009 0.010   8.74
 89)  4-Chlorotoluene   2.027 1.956 2.127 2.091 2.204 2.124 2.064 2.085   3.81
 90)  a-Methyl Styrene  0.597 0.610 0.646 0.682 0.716 0.790 0.760 0.686  10.72
 91)  tert-Butylbenzene 1.371 1.252 1.402 1.420 1.475 1.448 1.451 1.403   5.33
 92)  1,2,4-Trimethylbe 2.082 2.300 2.460 2.510 2.600 2.470 2.362 2.398   7.08
 93)  Pentachloroethane 0.414 0.385 0.412 0.413 0.415 0.484 0.418 0.420   7.18
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9917
               Response Ratio = 0.00000 + 0.46688 *A + -0.01851 *A^2

 94)  sec-Butylbenzene  2.800 2.681 3.012 3.027 3.097 2.922 2.752 2.899   5.41
 95)  4-Isopropyltoluen 2.228 2.226 2.494 2.552 2.616 2.508 2.397 2.432   6.34
 96)  1,3-Dichlorobenze 1.395 1.218 1.320 1.325 1.357 1.336 1.323 1.325   4.07
 97)  1,4-Dichlorobenze 1.607 1.334 1.384 1.367 1.417 1.373 1.362 1.406   6.55
 98)  n-Butylbenzene    1.186 1.230 1.408 1.459 1.506 1.513 1.511 1.402   9.85
 99)  Benzyl Chloride   0.099 0.125 0.161 0.179 0.216 0.221 0.227 0.175  28.43
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
               Response Ratio = 0.00000 + 0.19046 *A + 0.01906 *A^2

100)  1,2-Dichlorobenze 1.358 1.199 1.227 1.261 1.307 1.264 1.260 1.268   4.09
101)  1,2-Dibromo-3-Chl 0.093 0.073 0.080 0.085 0.096 0.096 0.097 0.089  10.86
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
               Response Ratio = 0.00000 + 0.08978 *A + 0.00377 *A^2

102)  Hexachlorobutadie 0.538 0.506 0.560 0.565 0.593 0.585 0.618 0.566   6.56
103)  1,2,4-Trichlorobe 0.828 0.834 0.896 0.945 1.001 0.977 0.998 0.926   7.99
104)  Naphthalene       1.180 1.150 1.346 1.516 1.606 1.531 1.529 1.408  13.07
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
               Response Ratio = 0.00000 + 1.55943 *A + -0.01523 *A^2

105)  1,2,3-Trichlorobe 0.839 0.735 0.781 0.828 0.875 0.828 0.855 0.820   5.78

106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.141 0.133 0.116 0.107 0.108 0.096 0.117  14.69
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9982
               Response Ratio = 0.00000 + 0.12372 *A + -0.00341 *A^2
```

Initial Calibration Summary

Job Number: FA33788 **Sample:** VJ5237-ICC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975154.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
108)  acrolein          2.418 2.888 3.009 3.281 2.989 3.071 2.805 2.923   9.18
109)  Tert Butyl Alcoho 1.180 1.273 1.244 1.202 1.239 1.212 1.133 1.212   3.83
110)  tert Amyl alcohol 0.706 0.750 0.859 0.892 0.929 0.920 0.893 0.850  10.24
111)  Isobutyl alcohol  0.233 0.438 0.421 0.457 0.446 0.452 0.400 0.407  19.43
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9981
               Response Ratio = 0.00000 + 0.49668 *A + -0.01141 *A^2

112)  1,4-Dioxane       0.110 0.091 0.100 0.099 0.102 0.100 0.093 0.099   6.24
113)  3,3-Dimethyl-1-bu 0.907 0.899 1.082 1.094 1.106 1.160       1.041  10.59
 ---------------------------------------------------------------------------
 (#) = Out of Range

          MSJ031516.M        Wed Mar 16 09:51:03 2016
```

6.7.8

6

Initial Calibration Verification

Job Number: FA33788 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\031516\J0975158.D          Vial: 12
Acq On    : 15 Mar 2016   5:26 pm                    Operator: DARSHNAP
Sample    : ICV5237-5                                Inst    : MSVOA6
Misc      : MS33279,VJ5237,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ031516.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Mar 16 08:34:48 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)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	103	0.00	7.76
2		Dichlorodifluoromethane		----------NA----------				
3	P	Chloromethane		----------NA----------				
4	C	Vinyl Chloride		----------NA----------				
5		1,3-Butadiene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6		Bromomethane		----------NA----------				
7		Chloroethane		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane		----------NA----------				
9		Ethyl Ether		----------NA----------				
10		1,2-Dichlorotrifluoroetha	0.291	0.287	1.4	99	0.00	4.36
11	C	1,1-Dichloroethene		----------NA----------				
12		Freon 113		----------NA----------				
13		Carbon Disulfide		----------NA----------				
14		Iodomethane		----------NA----------				
15		Allyl chloride		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
16		Methylene Chloride		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
17		Acetone		----------NA----------				
18		Methyl acetate		----------NA----------				
19		trans-1,2-Dichloroethene		----------NA----------				
20		Hexane		----------NA----------				
21		Methyl Tert Butyl Ether		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
22		Acetonitrile		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
23		Di-isopropyl ether		----------NA----------				
24		Chloroprene		----------NA----------				
25	P	1,1-Dichloroethane		----------NA----------				
26		Acrylonitrile		----------NA----------				
27		ETBE		----------NA----------				
28		Vinyl acetate		----------NA----------				
29		cis-1,2-Dichloroethene		----------NA----------				
30		2,2-Dichloropropane		----------NA----------				

Initial Calibration Verification

Job Number: FA33788 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane		----------NA----------				
32		Cyclohexane		----------NA----------				
33	C	Chloroform		----------NA----------				
34		Ethyl acetate		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane		----------NA----------				
37		Carbon Tetrachloride		----------NA----------				
38		1,1,1-Trichloroethane		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
39		2-Butanone		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
40		1,1-Dichloropropene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile		----------NA----------				
43		Methacrylonitrile		----------NA----------				
44		Benzene		----------NA----------				
45		TAME		----------NA----------				
46	S	1,2-Dichloroethane-d4	0.307	0.305	0.7	103	0.00	7.48
47		1,2-Dichloroethane		----------NA----------				
48		Trichloroethene		----------NA----------				
49		Methylcyclohexane		----------NA----------				
50		Dibromomethane		----------NA----------				
51	C	1,2-Dichloropropane		----------NA----------				
52		Bromodichloromethane		----------NA----------				
53		Methyl methacrylate		----------NA----------				
54		2-Chloroethyl vinyl ether		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
55		cis-1,3-Dichloropropene		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
56	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00	10.85
57	S	Toluene-d8	1.315	1.293	1.7	104	0.00	9.30
58	C	Toluene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
59		2-Nitropropane		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
60		4-Methyl-2-pentanone		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
61		trans-1,3-Dichloropropene		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
62		Tetrachloroethene		----------NA----------				
63		Ethyl methacrylate		----------NA----------				
64		1,1,2-Trichloroethane		----------NA----------				
65		Dibromochloromethane		----------NA----------				

Initial Calibration Verification

Job Number: FA33788 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

66		1,3-Dichloropropane	----------NA----------					
67		1,2-Dibromoethane	----------NA----------					
68		2-hexanone	----------NA----------					
69		1-Chlorohexane	----------NA----------					
70	C	Ethylbenzene	----------NA----------					
71	P	Chlorobenzene	----------NA----------					
72		1,1,1,2-Tetrachloroethane	----------NA----------					
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	----------NA----------					
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	----------NA----------					
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	----------NA----------					
76	P	Bromoform	----------NA----------					
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	----------NA----------					
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	13.21
79	S	4-Bromofluorobenzene	0.904	0.920	-1.8	106	0.00	12.06
80		cis-1,4-Dichloro-2-butene	----------NA----------					
81		n-Propylbenzene	----------NA----------					
82		Bromobenzene	----------NA----------					
83	P	1,1,2,2-Tetrachloroethane	----------NA----------					
84		1,3,5-Trimethylbenzene	----------NA----------					
85		2-Chlorotoluene	----------NA----------					
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	----------NA----------					
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	----------NA----------					
88		Cyclohexanone	----------NA----------					
89		4-Chlorotoluene	----------NA----------					
90		a-Methyl Styrene	----------NA----------					
91		tert-Butylbenzene	----------NA----------					
92		1,2,4-Trimethylbenzene	----------NA----------					
		----------	Amount	Calc.	%Drift	----------		
93		Pentachloroethane	----------NA----------					
		----------	AvgRF	CCRF	%Dev	----------		
94		sec-Butylbenzene	----------NA----------					
95		4-Isopropyltoluene	----------NA----------					
96		1,3-Dichlorobenzene	----------NA----------					
97		1,4-Dichlorobenzene	----------NA----------					
98		n-Butylbenzene	----------NA----------					
		----------	Amount	Calc.	%Drift	----------		
99		Benzyl Chloride	----------NA----------					
		----------	AvgRF	CCRF	%Dev	----------		
100		1,2-Dichlorobenzene	----------NA----------					
		----------	Amount	Calc.	%Drift	----------		
101		1,2-Dibromo-3-Chloropropa	----------NA----------					

Initial Calibration Verification

Job Number: FA33788 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
            ----------------------- AvgRF   CCRF      %Dev   --------------
102     Hexachlorobutadiene                 ----------NA----------
103     1,2,4-Trichlorobenzene              ----------NA----------

            ----------------------- Amount  Calc.    %Drift   -------------
104     Naphthalene                         ----------NA----------

            ----------------------- AvgRF   CCRF      %Dev   --------------
105     1,2,3-Trichlorobenzene              ----------NA----------

106 I   Tert Butyl Alcohol-d10      1.000   1.000      0.0  102   0.00    5.29

            ----------------------- Amount  Calc.    %Drift   -------------
107     Ethanol                             ----------NA----------

            ----------------------- AvgRF   CCRF      %Dev   --------------
108     acrolein                            ----------NA----------
109     Tert Butyl Alcohol                  ----------NA----------
110     tert Amyl alcohol                   ----------NA----------

            ----------------------- Amount  Calc.    %Drift   -------------
111     Isobutyl alcohol                    ----------NA----------

            ----------------------- AvgRF   CCRF      %Dev   --------------
112     1,4-Dioxane                         ----------NA----------
113     3,3-Dimethyl-1-butanol              ----------NA----------
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range              SPCC's out = 4  CCC's out = 6
     J0975154.D MSJ031516.M       Wed Mar 16 09:50:48 2016
```

6.7.9

6

Initial Calibration Verification

Job Number: FA33788 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\data\031516\J0975159.D Vial: 13
Acq On : 15 Mar 2016 5:51 pm Operator: DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ031516.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Wed Mar 16 08:34:48 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)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	106	0.00	7.76
2	Dichlorodifluoromethane	0.308	0.262	14.9	85	0.00	2.69
3 P	Chloromethane	0.329	0.287	12.8	91	0.00	2.90
4 C	Vinyl Chloride	0.337	0.315	6.5	96	0.00	3.04
5	1,3-Butadiene	0.251	0.001	99.6#	0#	-0.02	3.02
		Amount	Calc.	%Drift			
6	Bromomethane	40.000	34.533	13.7	96	0.00	3.46
7	Chloroethane	40.000	38.560	3.6	105	0.00	3.61
		AvgRF	CCRF	%Dev			
8	Trichlorofluoromethane	0.419	0.410	2.1	99	0.00	3.84
9	Ethyl Ether	0.193	0.190	1.6	100	0.00	4.12
10	1,2-Dichlorotrifluoroetha		NA				
11 C	1,1-Dichloroethene	0.362	0.353	2.5	103	0.00	4.40
12	Freon 113	0.250	0.214	14.4	90	0.00	4.46
13	Carbon Disulfide	0.754	0.721	4.4	99	0.00	4.48
14	Iodomethane	0.400	0.376	6.0	98	0.00	4.59
15	Allyl chloride	0.335	0.281	16.1	89	0.00	4.92
		Amount	Calc.	%Drift			
16	Methylene Chloride	40.000	37.430	6.4	98	0.00	5.05
		AvgRF	CCRF	%Dev			
17	Acetone	0.015	0.015	0.0	111	0.00	5.07
18	Methyl acetate	0.029	0.029	0.0	103	0.00	5.19
19	trans-1,2-Dichloroethene	0.332	0.338	-1.8	105	0.00	5.23
20	Hexane	0.213	0.207	2.8	101	0.00	5.30
21	Methyl Tert Butyl Ether	0.663	0.652	1.7	101	0.00	5.34
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	320.467	19.9	92	0.00	5.59
		AvgRF	CCRF	%Dev			
23	Di-isopropyl ether	0.759	0.738	2.8	99	0.00	5.72
24	Chloroprene	0.357	0.318	10.9	92	0.00	5.87
25 P	1,1-Dichloroethane	0.444	0.423	4.7	100	0.00	5.89
26	Acrylonitrile	0.066	0.061	7.6	102	0.00	5.93
27	ETBE	0.760	0.747	1.7	98	0.00	6.12
28	Vinyl acetate	0.384	0.350	8.9	94	0.00	6.11
29	cis-1,2-Dichloroethene	0.285	0.260	8.8	94	0.00	6.47
30	2,2-Dichloropropane	0.346	0.347	-0.3	104	0.00	6.61

Initial Calibration Verification

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5237-ICV5237
Lab FileID: J0975159.D

31		Bromochloromethane	0.129	0.125	3.1	99	0.00	6.69
32		Cyclohexane	0.417	0.389	6.7	96	0.00	6.73
33	C	Chloroform	0.493	0.458	7.1	97	0.00	6.74
34		Ethyl acetate	0.154	0.135	12.3	95	0.00	6.81
			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	37.551	6.1	101	0.00	6.92
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.254	0.256	-0.8	106	0.00	6.93
37		Carbon Tetrachloride	0.343	0.336	2.0	99	0.00	6.93
38		1,1,1-Trichloroethane	0.421	0.384	8.8	93	0.00	7.00
			Amount	Calc.	%Drift			
39		2-Butanone	200.000	194.637	2.7	105	0.00	7.03
			AvgRF	CCRF	%Dev			
40		1,1-Dichloropropene	0.340	0.329	3.2	101	0.00	7.10
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	415.053	-3.8	111	0.00	7.19
			AvgRF	CCRF	%Dev			
42		Propionitrile	0.023	0.020	13.0	97	0.00	7.34
43		Methacrylonitrile	0.107	0.092	14.0	99	0.00	7.36
44		Benzene	1.036	0.961	7.2	96	0.00	7.36
45		TAME	0.686	0.655	4.5	96	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.307	0.307	0.0	108	0.00	7.48
47		1,2-Dichloroethane	0.363	0.331	8.8	98	0.00	7.55
48		Trichloroethene	0.268	0.249	7.1	98	0.00	7.94
49		Methylcyclohexane	0.451	0.441	2.2	100	0.00	7.96
50		Dibromomethane	0.150	0.149	0.7	102	0.00	8.36
51	C	1,2-Dichloropropane	0.260	0.241	7.3	95	0.00	8.45
52		Bromodichloromethane	0.334	0.332	0.6	101	0.00	8.50
53		Methyl methacrylate	0.138	0.149	-8.0	111	0.00	8.60
54		2-Chloroethyl vinyl ether	0.132	0.128	3.0	100	0.00	9.01
			Amount	Calc.	%Drift			
55		cis-1,3-Dichloropropene	40.000	38.680	3.3	101	0.00	9.11
			AvgRF	CCRF	%Dev			
56	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00	10.85
57	S	Toluene-d8	1.315	1.310	0.4	107	0.00	9.30
58	C	Toluene	1.448	1.327	8.4	96	0.00	9.36
			Amount	Calc.	%Drift			
59		2-Nitropropane	200.000	195.657	2.2	101	0.00	9.56
			AvgRF	CCRF	%Dev			
60		4-Methyl-2-pentanone	0.207	0.199	3.9	100	0.00	9.67
			Amount	Calc.	%Drift			
61		trans-1,3-Dichloropropene	40.000	41.876	-4.7	108	0.00	9.74
			AvgRF	CCRF	%Dev			
62		Tetrachloroethene	0.387	0.345	10.9	91	0.00	9.76
63		Ethyl methacrylate	0.331	0.292	11.8	88	0.00	9.84
64		1,1,2-Trichloroethane	0.236	0.236	0.0	101	0.00	9.90
65		Dibromochloromethane	0.300	0.309	-3.0	102	0.00	10.10

Initial Calibration Verification

Job Number: FA33788 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

66		1,3-Dichloropropane	0.483	0.458	5.2	96	0.00	10.18
67		1,2-Dibromoethane	0.268	0.263	1.9	99	0.00	10.37
68		2-hexanone	0.137	0.131	4.4	97	0.00	10.49
69		1-Chlorohexane	0.425	0.430	-1.2	101	0.00	10.80
70	C	Ethylbenzene	1.651	1.575	4.6	98	0.00	10.86
71	P	Chlorobenzene	0.963	0.905	6.0	97	0.00	10.86
72		1,1,1,2-Tetrachloroethane	0.313	0.318	-1.6	101	0.00	10.91
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	74.784	6.5	99	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.276	1.262	1.1	98	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	36.538	8.7	96	0.00	11.48
76	P	Bromoform	40.000	40.080	-0.2	105	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.474	1.496	-1.5	100	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	13.21
79	S	4-Bromofluorobenzene	0.904	0.917	-1.4	108	0.00	12.06
80		cis-1,4-Dichloro-2-butene	0.162	0.145	10.5	93	0.00	12.09
81		n-Propylbenzene	3.173	3.208	-1.1	102	0.00	12.16
82		Bromobenzene	0.747	0.708	5.2	97	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.603	0.583	3.3	99	0.00	12.22
84		1,3,5-Trimethylbenzene	2.401	2.350	2.1	96	0.00	12.34
85		2-Chlorotoluene	2.329	2.261	2.9	100	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	40.996	-2.5	109	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.154	0.155	-0.6	102	0.00	12.39
88		Cyclohexanone	0.010	0.008	20.0	86	0.00	12.45
89		4-Chlorotoluene	2.085	2.084	0.0	100	0.00	12.52
90		a-Methyl Styrene	0.686	0.017	97.5#	3#	0.14	12.75
91		tert-Butylbenzene	1.403	1.351	3.7	97	0.00	12.68
92		1,2,4-Trimethylbenzene	2.398	2.363	1.5	96	0.00	12.76
		----------	Amount	Calc.	%Drift	----------		
93		Pentachloroethane	40.000	35.494	11.3	103	0.00	12.74
		----------	AvgRF	CCRF	%Dev	----------		
94		sec-Butylbenzene	2.899	2.890	0.3	99	0.00	12.87
95		4-Isopropyltoluene	2.432	2.390	1.7	97	0.00	13.00
96		1,3-Dichlorobenzene	1.325	1.292	2.5	101	0.00	13.13
97		1,4-Dichlorobenzene	1.406	1.321	6.0	99	0.00	13.22
98		n-Butylbenzene	1.402	1.436	-2.4	101	0.00	13.43
		----------	Amount	Calc.	%Drift	----------		
99		Benzyl Chloride	40.000	41.280	-3.2	105	0.00	13.45
		----------	AvgRF	CCRF	%Dev	----------		
100		1,2-Dichlorobenzene	1.268	1.223	3.5	99	0.00	13.64
		----------	Amount	Calc.	%Drift	----------		
101		1,2-Dibromo-3-Chloropropa	40.000	37.513	6.2	96	0.00	14.38

Initial Calibration Verification

Job Number: FA33788 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

			AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene		0.566	0.525	7.2	94	0.00	14.93
103	1,2,4-Trichlorobenzene		0.926	0.914	1.3	97	0.00	14.97
			Amount	Calc.	%Drift			
104	Naphthalene		40.000	41.497	-3.7	106	0.00	15.26
			AvgRF	CCRF	%Dev			
105	1,2,3-Trichlorobenzene		0.820	0.805	1.8	98	0.00	15.43
106	I Tert Butyl Alcohol-d10		1.000	1.000	0.0	95	0.00	5.30
			Amount	Calc.	%Drift			
107	Ethanol		800.000	682.264	14.7	87	0.00	4.28
			AvgRF	CCRF	%Dev			
108	acrolein		2.923	3.226	-10.4	103	0.00	4.76
109	Tert Butyl Alcohol		1.212	1.230	-1.5	95	0.00	5.37
110	tert Amyl alcohol		0.850	0.964	-13.4	99	0.00	7.57
			Amount	Calc.	%Drift			
111	Isobutyl alcohol		800.000	742.753	7.2	92	0.00	7.46
			AvgRF	CCRF	%Dev			
112	1,4-Dioxane		0.099	0.103	-4.0	96	0.00	8.67
113	3,3-Dimethyl-1-butanol		1.041	1.125	-8.1	97	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0975154.D MSJ031516.M Wed Mar 16 09:50:50 2016

6.7.10

6

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VJ5291-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976383.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\051016\J0976383.D          Vial: 1
Acq On    : 10 May 2016   9:01 am                     Operator: darshnap
Sample    : cc5237-5                                  Inst    : MSVOA6
Misc      : MS33818,VJ5291,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ031516.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Mar 16 08:34:48 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)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	82	0.00	7.76
2		Dichlorodifluoromethane	0.308	0.253	17.9	64	0.00	2.69
3	P	Chloromethane	0.329	0.306	7.0	75	0.00	2.90
4	C	Vinyl Chloride	0.337	0.323	4.2	76	0.00	3.05
5		1,3-Butadiene	0.251	0.216	13.9	71	0.00	3.04
		----------	Amount	Calc.	%Drift		----------	
6		Bromomethane	40.000	32.033	19.9	69	0.00	3.46
7		Chloroethane	40.000	32.891	17.8	69	0.00	3.62
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.419	0.413	1.4	77	0.00	3.84
9		Ethyl Ether	0.193	0.198	-2.6	81	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.291	0.303	-4.1	83	0.00	4.35
11	C	1,1-Dichloroethene	0.362	0.389	-7.5	87	0.00	4.39
12		Freon 113	0.250	0.265	-6.0	85	0.00	4.46
13		Carbon Disulfide	0.754	0.788	-4.5	84	0.00	4.47
14		Iodomethane	0.400	0.423	-5.7	85	0.00	4.59
15		Allyl chloride	0.335	0.305	9.0	74	0.00	4.92
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	42.643	-6.6	86	0.00	5.04
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.015	0.015	0.0	89	0.00	5.07
18		Methyl acetate	0.029	0.028	3.4	76	0.00	5.19
19		trans-1,2-Dichloroethene	0.332	0.349	-5.1	84	0.00	5.22
20		Hexane	0.213	0.217	-1.9	81	0.00	5.30
21		Methyl Tert Butyl Ether	0.663	0.696	-5.0	83	0.00	5.33
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	405.817	-1.5	89	0.00	5.58
		----------	AvgRF	CCRF	%Dev		----------	
23		Di-isopropyl ether	0.759	0.786	-3.6	81	0.00	5.71
24		Chloroprene	0.357	0.303	15.1	67	0.00	5.87
25	P	1,1-Dichloroethane	0.444	0.464	-4.5	85	0.00	5.89
26		Acrylonitrile	0.066	0.067	-1.5	87	0.00	5.92
27		ETBE	0.760	0.843	-10.9	85	0.00	6.11
28		Vinyl acetate	0.384	0.425	-10.7	88	0.00	6.11
29		cis-1,2-Dichloroethene	0.285	0.294	-3.2	82	0.00	6.47
30		2,2-Dichloropropane	0.346	0.395	-14.2	91	0.00	6.61

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VJ5291-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976383.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.129	0.135	-4.7	82	0.00	6.68
32		Cyclohexane	0.417	0.430	-3.1	82	0.00	6.73
33	C	Chloroform	0.493	0.510	-3.4	83	0.00	6.73
34		Ethyl acetate	0.154	0.145	5.8	79	0.00	6.81
			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	36.859	7.9	76	0.00	6.92
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.254	0.255	-0.4	81	0.00	6.92
37		Carbon Tetrachloride	0.343	0.401	-16.9	91	0.00	6.93
38		1,1,1-Trichloroethane	0.421	0.452	-7.4	85	0.00	6.99
			Amount	Calc.	%Drift			
39		2-Butanone	200.000	193.523	3.2	81	0.00	7.02
			AvgRF	CCRF	%Dev			
40		1,1-Dichloropropene	0.340	0.356	-4.7	84	0.00	7.10
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	454.126	-13.5	94	0.00	7.18
			AvgRF	CCRF	%Dev			
42		Propionitrile	0.023	0.021	8.7	80	0.00	7.33
43		Methacrylonitrile	0.107	0.096	10.3	79	0.00	7.36
44		Benzene	1.036	1.133	-9.4	87	0.00	7.35
45		TAME	0.686	0.762	-11.1	86	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.307	0.303	1.3	82	0.00	7.48
47		1,2-Dichloroethane	0.363	0.367	-1.1	83	0.00	7.54
48		Trichloroethene	0.268	0.285	-6.3	86	0.00	7.93
49		Methylcyclohexane	0.451	0.485	-7.5	85	0.00	7.96
50		Dibromomethane	0.150	0.155	-3.3	81	0.00	8.36
51	C	1,2-Dichloropropane	0.260	0.264	-1.5	80	0.00	8.44
52		Bromodichloromethane	0.334	0.362	-8.4	85	0.00	8.49
53		Methyl methacrylate	0.138	0.128	7.2	73	0.00	8.59
54		2-Chloroethyl vinyl ether	0.132	0.134	-1.5	80	0.00	9.00
			Amount	Calc.	%Drift			
55		cis-1,3-Dichloropropene	40.000	42.426	-6.1	85	0.00	9.11
			AvgRF	CCRF	%Dev			
56	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00	10.85
57	S	Toluene-d8	1.315	1.239	5.8	83	0.00	9.30
58	C	Toluene	1.448	1.450	-0.1	86	0.00	9.35
			Amount	Calc.	%Drift			
59		2-Nitropropane	200.000	191.162	4.4	81	0.00	9.56
			AvgRF	CCRF	%Dev			
60		4-Methyl-2-pentanone	0.207	0.205	1.0	85	0.00	9.67
			Amount	Calc.	%Drift			
61		trans-1,3-Dichloropropene	40.000	41.859	-4.6	89	0.00	9.73
			AvgRF	CCRF	%Dev			
62		Tetrachloroethene	0.387	0.366	5.4	80	0.00	9.76
63		Ethyl methacrylate	0.331	0.306	7.6	76	0.00	9.84
64		1,1,2-Trichloroethane	0.236	0.236	0.0	83	0.00	9.90
65		Dibromochloromethane	0.300	0.323	-7.7	88	0.00	10.10

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VJ5291-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976383.D
Project: BMSMC, Building 5 Area, Humacao, PR

66		1,3-Dichloropropane	0.483	0.470	2.7	82	0.00	10.18
67		1,2-Dibromoethane	0.268	0.262	2.2	81	0.00	10.36
68		2-hexanone	0.137	0.142	-3.6	87	0.00	10.49
69		1-Chlorohexane	0.425	0.453	-6.6	87	0.00	10.79
70	C	Ethylbenzene	1.651	1.779	-7.8	91	0.00	10.86
71	P	Chlorobenzene	0.963	1.038	-7.8	91	0.00	10.86
72		1,1,1,2-Tetrachloroethane	0.313	0.344	-9.9	90	0.00	10.91
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	84.932	-6.2	91	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.276	1.382	-8.3	89	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	43.081	-7.7	92	0.00	11.48
76	P	Bromoform	40.000	44.510	-11.3	97	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.474	1.656	-12.3	91	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	13.21
79	S	4-Bromofluorobenzene	0.904	0.862	4.6	86	0.00	12.05
80		cis-1,4-Dichloro-2-butene	0.162	0.147	9.3	80	0.00	12.09
81		n-Propylbenzene	3.173	3.470	-9.4	94	0.00	12.16
82		Bromobenzene	0.747	0.789	-5.6	92	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.603	0.620	-2.8	89	0.00	12.22
84		1,3,5-Trimethylbenzene	2.401	2.662	-10.9	92	0.00	12.34
85		2-Chlorotoluene	2.329	2.507	-7.6	94	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	38.429	3.9	87	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.154	0.162	-5.2	91	0.00	12.38
88		Cyclohexanone	0.010	0.016	-60.0#	152	0.00	12.45
89		4-Chlorotoluene	2.085	2.287	-9.7	94	0.00	12.52
90		a-Methyl Styrene	0.686	1.242	-81.0#	157	0.00	12.60
91		tert-Butylbenzene	1.403	1.481	-5.6	91	0.00	12.68
92		1,2,4-Trimethylbenzene	2.398	2.647	-10.4	92	0.00	12.75
		----------	Amount	Calc.	%Drift	----------		
93		Pentachloroethane	40.000	40.125	-0.3	98	0.00	12.74
		----------	AvgRF	CCRF	%Dev	----------		
94		sec-Butylbenzene	2.899	3.142	-8.4	91	0.00	12.87
95		4-Isopropyltoluene	2.432	2.668	-9.7	92	0.00	13.00
96		1,3-Dichlorobenzene	1.325	1.396	-5.4	93	0.00	13.13
97		1,4-Dichlorobenzene	1.406	1.435	-2.1	91	0.00	13.22
98		n-Butylbenzene	1.402	1.551	-10.6	93	0.00	13.43
		----------	Amount	Calc.	%Drift	----------		
99		Benzyl Chloride	40.000	46.328	-15.8	101	0.00	13.45
		----------	AvgRF	CCRF	%Dev	----------		
100		1,2-Dichlorobenzene	1.268	1.281	-1.0	88	0.00	13.64
		----------	Amount	Calc.	%Drift	----------		
101		1,2-Dibromo-3-Chloropropa	40.000	34.879	12.8	75	0.00	14.38

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VJ5291-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976383.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.566	0.558	1.4	85	0.00	14.93
103	1,2,4-Trichlorobenzene	0.926	0.857	7.5	77	0.00	14.97

		Amount	Calc.	%Drift			
104	Naphthalene	40.000	32.399	19.0	70	0.00	15.26

		AvgRF	CCRF	%Dev			
105	1,2,3-Trichlorobenzene	0.820	0.727	11.3	75	0.00	15.43
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	101	0.00	5.30

		Amount	Calc.	%Drift			
107	Ethanol	800.000	877.314	-9.7	116	0.02	4.30

		AvgRF	CCRF	%Dev			
108	acrolein	2.923	2.374	18.8	81	0.00	4.75
109	Tert Butyl Alcohol	1.212	1.162	4.1	95	0.00	5.38
110	tert Amyl alcohol	0.850	0.912	-7.3	100	0.00	7.57

		Amount	Calc.	%Drift			
111	Isobutyl alcohol	800.000	694.522	13.2	92	0.00	7.45

		AvgRF	CCRF	%Dev			
112	1,4-Dioxane	0.099	0.124	-25.3#	124	0.00	8.67
113	3,3-Dimethyl-1-butanol	1.041	1.010	3.0	93	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0975154.D MSJ031516.M Wed May 11 13:38:24 2016

6.7.11

6

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VJ5291-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976409.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\051016\J0976409.D          Vial: 24
Acq On    : 10 May 2016   7:10 pm                    Operator: darshnap
Sample    : ECC5237-5                                Inst    : MSVOA6
Misc      : MS33829,VJ5291,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ031516.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Mar 16 08:34:48 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  50%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	89	0.00	7.76
2		Dichlorodifluoromethane	0.308	0.291	5.5	79	0.00	2.69
3	P	Chloromethane	0.329	0.321	2.4	85	0.00	2.89
4	C	Vinyl Chloride	0.337	0.364	-8.0	92	0.00	3.05
5		1,3-Butadiene	0.251	0.299	-19.1	107	0.00	3.04
			Amount	Calc.	%Drift			
6		Bromomethane	40.000	34.643	13.4	80	0.00	3.47
7		Chloroethane	40.000	37.232	6.9	84	0.00	3.61
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.419	0.463	-10.5	93	0.00	3.84
9		Ethyl Ether	0.193	0.189	2.1	83	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.291	0.291	0.0	86	0.00	4.36
11	C	1,1-Dichloroethene	0.362	0.374	-3.3	91	0.00	4.40
12		Freon 113	0.250	0.246	1.6	86	0.00	4.47
13		Carbon Disulfide	0.754	0.754	0.0	86	0.00	4.48
14		Iodomethane	0.400	0.394	1.5	85	0.00	4.59
15		Allyl chloride	0.335	0.345	-3.0	91	0.00	4.92
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	38.988	2.5	85	0.00	5.04
			AvgRF	CCRF	%Dev			
17		Acetone	0.015	0.014	6.7	91	0.00	5.07
18		Methyl acetate	0.029	0.026	10.3	76	0.00	5.19
19		trans-1,2-Dichloroethene	0.332	0.333	-0.3	86	0.00	5.23
20		Hexane	0.213	0.209	1.9	85	0.00	5.30
21		Methyl Tert Butyl Ether	0.663	0.661	0.3	85	0.00	5.33
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	408.271	-2.1	97	0.01	5.60
			AvgRF	CCRF	%Dev			
23		Di-isopropyl ether	0.759	0.736	3.0	82	0.00	5.72
24		Chloroprene	0.357	0.400	-12.0	96	0.00	5.87
25	P	1,1-Dichloroethane	0.444	0.450	-1.4	89	0.00	5.90
26		Acrylonitrile	0.066	0.064	3.0	89	0.00	5.92
27		ETBE	0.760	0.798	-5.0	87	0.00	6.12
28		Vinyl acetate	0.384	0.405	-5.5	90	0.00	6.11
29		cis-1,2-Dichloroethene	0.285	0.285	0.0	85	0.00	6.48
30		2,2-Dichloropropane	0.346	0.359	-3.8	89	0.00	6.61

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VJ5291-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976409.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.129	0.129	0.0	85	0.00	6.68
32		Cyclohexane	0.417	0.420	-0.7	86	0.00	6.73
33	C	Chloroform	0.493	0.496	-0.6	87	0.00	6.74
34		Ethyl acetate	0.154	0.137	11.0	80	0.00	6.81
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	34.044	14.9	76	0.00	6.92
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.254	0.251	1.2	87	0.00	6.92
37		Carbon Tetrachloride	0.343	0.381	-11.1	93	0.00	6.93
38		1,1,1-Trichloroethane	0.421	0.442	-5.0	90	0.00	7.00
		----------	Amount	Calc.	%Drift	----------		
39		2-Butanone	200.000	192.810	3.6	87	0.00	7.02
		----------	AvgRF	CCRF	%Dev	----------		
40		1,1-Dichloropropene	0.340	0.341	-0.3	87	0.00	7.10
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	428.822	-7.2	96	0.00	7.18
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.023	0.022	4.3	90	0.00	7.33
43		Methacrylonitrile	0.107	0.095	11.2	85	0.00	7.36
44		Benzene	1.036	1.092	-5.4	90	0.00	7.35
45		TAME	0.686	0.726	-5.8	88	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.307	0.295	3.9	86	0.00	7.48
47		1,2-Dichloroethane	0.363	0.341	6.1	84	0.00	7.55
48		Trichloroethene	0.268	0.273	-1.9	89	0.00	7.93
49		Methylcyclohexane	0.451	0.493	-9.3	93	0.00	7.96
50		Dibromomethane	0.150	0.145	3.3	82	0.00	8.36
51	C	1,2-Dichloropropane	0.260	0.257	1.2	85	0.00	8.45
52		Bromodichloromethane	0.334	0.344	-3.0	87	0.00	8.49
53		Methyl methacrylate	0.138	0.139	-0.7	86	0.00	8.59
54		2-Chloroethyl vinyl ether	0.132	0.134	-1.5	87	0.00	9.01
		----------	Amount	Calc.	%Drift	----------		
55		cis-1,3-Dichloropropene	40.000	39.934	0.2	87	0.00	9.11
		----------	AvgRF	CCRF	%Dev	----------		
56	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00	10.85
57	S	Toluene-d8	1.315	1.237	5.9	90	0.00	9.30
58	C	Toluene	1.448	1.415	2.3	91	0.00	9.36
		----------	Amount	Calc.	%Drift	----------		
59		2-Nitropropane	200.000	179.283	10.4	83	0.00	9.56
		----------	AvgRF	CCRF	%Dev	----------		
60		4-Methyl-2-pentanone	0.207	0.209	-1.0	94	0.00	9.67
		----------	Amount	Calc.	%Drift	----------		
61		trans-1,3-Dichloropropene	40.000	38.809	3.0	90	0.00	9.73
		----------	AvgRF	CCRF	%Dev	----------		
62		Tetrachloroethene	0.387	0.376	2.8	89	0.00	9.76
63		Ethyl methacrylate	0.331	0.341	-3.0	91	0.00	9.84
64		1,1,2-Trichloroethane	0.236	0.232	1.7	89	0.00	9.90
65		Dibromochloromethane	0.300	0.307	-2.3	90	0.00	10.10

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VJ5291-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976409.D
Project: BMSMC, Building 5 Area, Humacao, PR

66		1,3-Dichloropropane	0.483	0.454	6.0	85	0.00	10.18
67		1,2-Dibromoethane	0.268	0.253	5.6	85	0.00	10.36
68		2-hexanone	0.137	0.144	-5.1	96	0.00	10.49
69		1-Chlorohexane	0.425	0.455	-7.1	95	0.00	10.80
70	C	Ethylbenzene	1.651	1.733	-5.0	96	0.00	10.86
71	P	Chlorobenzene	0.963	0.994	-3.2	95	0.00	10.86
72		1,1,1,2-Tetrachloroethane	0.313	0.324	-3.5	92	0.00	10.91
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	81.520	-1.9	95	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.276	1.340	-5.0	93	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	41.406	-3.5	97	0.00	11.48
76	P	Bromoform	40.000	42.034	-5.1	99	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.474	1.623	-10.1	96	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	93	0.00	13.21
79	S	4-Bromofluorobenzene	0.904	0.910	-0.7	94	0.00	12.05
80		cis-1,4-Dichloro-2-butene	0.162	0.130	19.8	74	0.00	12.09
81		n-Propylbenzene	3.173	3.495	-10.1	98	0.00	12.16
82		Bromobenzene	0.747	0.791	-5.9	96	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.603	0.615	-2.0	92	0.00	12.22
84		1,3,5-Trimethylbenzene	2.401	2.654	-10.5	95	0.00	12.34
85		2-Chlorotoluene	2.329	2.493	-7.0	97	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	33.052	17.4	77	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.154	0.164	-6.5	95	0.00	12.38
88		Cyclohexanone	0.010	0.013	-30.0	132	0.00	12.45
89		4-Chlorotoluene	2.085	2.253	-8.1	95	0.00	12.52
90		a-Methyl Styrene	0.686	1.452	-111.7#	189	0.00	12.60
91		tert-Butylbenzene	1.403	1.505	-7.3	95	0.00	12.68
92		1,2,4-Trimethylbenzene	2.398	2.627	-9.5	94	0.00	12.75
		----------	Amount	Calc.	%Drift	----------		
93		Pentachloroethane	40.000	41.568	-3.9	105	0.00	12.74
		----------	AvgRF	CCRF	%Dev	----------		
94		sec-Butylbenzene	2.899	3.232	-11.5	97	0.00	12.87
95		4-Isopropyltoluene	2.432	2.731	-12.3	97	0.00	13.00
96		1,3-Dichlorobenzene	1.325	1.382	-4.3	95	0.00	13.13
97		1,4-Dichlorobenzene	1.406	1.415	-0.6	93	0.00	13.22
98		n-Butylbenzene	1.402	1.545	-10.2	96	0.00	13.43
		----------	Amount	Calc.	%Drift	----------		
99		Benzyl Chloride	40.000	39.903	0.2	89	0.00	13.45
		----------	AvgRF	CCRF	%Dev	----------		
100		1,2-Dichlorobenzene	1.268	1.257	0.9	90	0.00	13.64
		----------	Amount	Calc.	%Drift	----------		
101		1,2-Dibromo-3-Chloropropa	40.000	35.083	12.3	79	0.00	14.38

Continuing Calibration Summary

Job Number: FA33788 **Sample:** VJ5291-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976409.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.566	0.573	-1.2	90	0.00	14.93
103	1,2,4-Trichlorobenzene	0.926	0.858	7.3	80	0.00	14.97

		Amount	Calc.	%Drift			
104	Naphthalene	40.000	32.127	19.7	72	0.00	15.26

		AvgRF	CCRF	%Dev			
105	1,2,3-Trichlorobenzene	0.820	0.717	12.6	76	0.00	15.43
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	109	0.00	5.30

		Amount	Calc.	%Drift			
107	Ethanol	800.000	514.597	35.7	76	0.01	4.29

		AvgRF	CCRF	%Dev			
108	acrolein	2.923	2.430	16.9	88	0.00	4.76
109	Tert Butyl Alcohol	1.212	1.145	5.5	101	0.00	5.38
110	tert Amyl alcohol	0.850	0.911	-7.2	107	0.00	7.57

		Amount	Calc.	%Drift			
111	Isobutyl alcohol	800.000	702.953	12.1	100	0.00	7.45

		AvgRF	CCRF	%Dev			
112	1,4-Dioxane	0.099	0.127	-28.3	136	0.00	8.67
113	3,3-Dimethyl-1-butanol	1.041	1.008	3.2	99	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0975154.D MSJ031516.M Wed May 11 13:36:47 2016

6.7.12

6

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976394.D
Acq On : 10 May 2016 1:27 pm
Operator : darshnap
Sample : fa33788-1 MA Inst : MSVOA6
Misc : MS33848,VJ5292,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 16:14:12 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

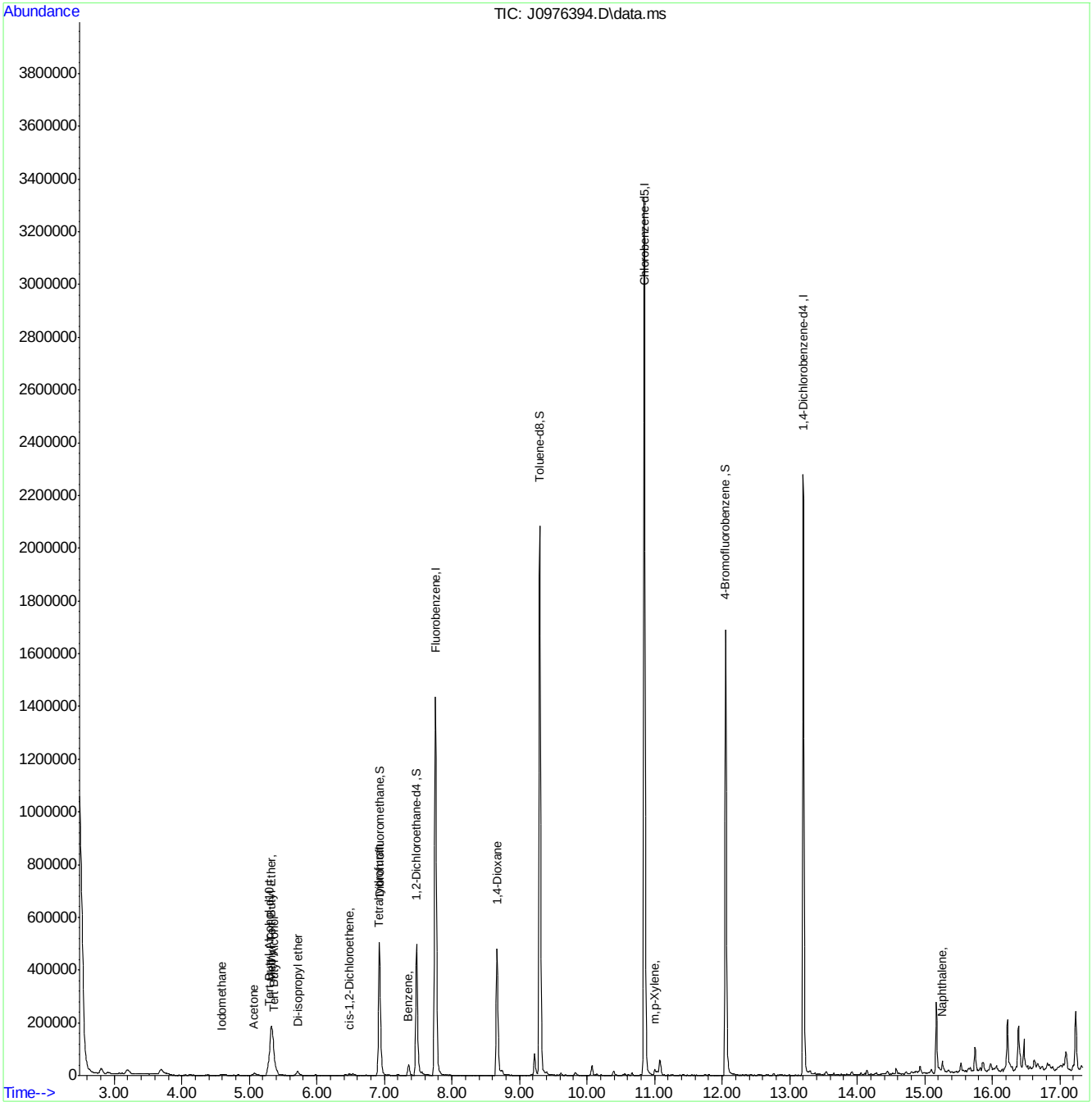
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1277381	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1014569	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	517477	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	76109	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	325712	50.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.50%			
46) 1,2-Dichloroethane-d4	7.476	65	383674	48.94	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.88%			
57) Toluene-d8	9.301	98	1289165	48.30	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.60%			
79) 4-Bromofluorobenzene	12.051	95	498128	53.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.44%			
Target Compounds						Qvalue
14) Iodomethane	4.586	142	2388	0.23	ug/L #	87
17) Acetone	5.073	58	4874	12.72	ug/L	91
21) Methyl Tert Butyl Ether	5.328	73	293721	17.35	ug/L	68
23) Di-isopropyl ether	5.718	45	16460	0.85	ug/L	87
29) cis-1,2-Dichloroethene	6.478	96	3443	0.47	ug/L	89
35) Tetrahydrofuran	6.916	42	3258	2.76	ug/L #	82
44) Benzene	7.354	78	39846	1.51	ug/L	71
73) m,p-Xylene	11.004	91	13672	0.47	ug/L	88
104) Naphthalene	15.263	128	31399	1.95	ug/L	92
109) Tert Butyl Alcohol	5.371	59	48692	131.99	ug/L	80
112) 1,4-Dioxane	8.668	88	342676	11338.83	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

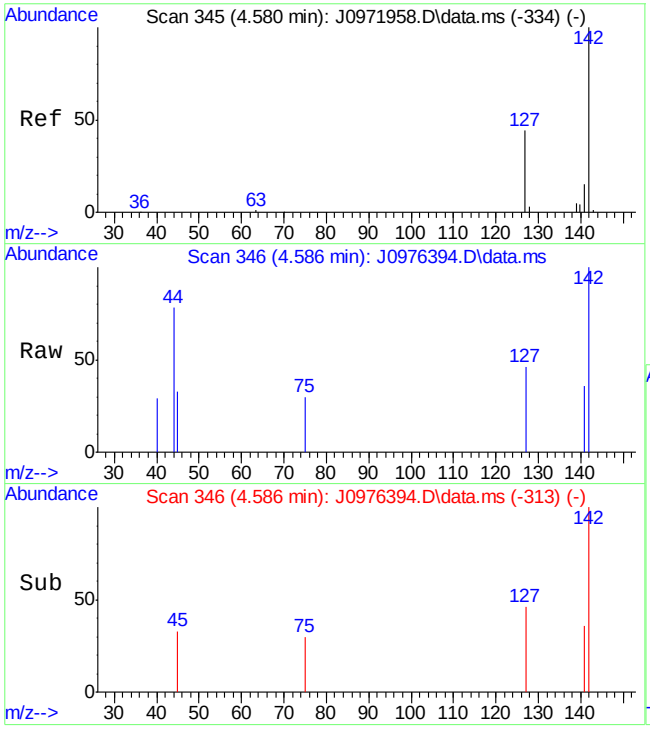
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976394.D
Acq On : 10 May 2016 1:27 pm
Operator : darshnap
Sample : fa33788-1 MA Inst : MSVOA6
Misc : MS33848,VJ5292,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 11 16:14:12 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



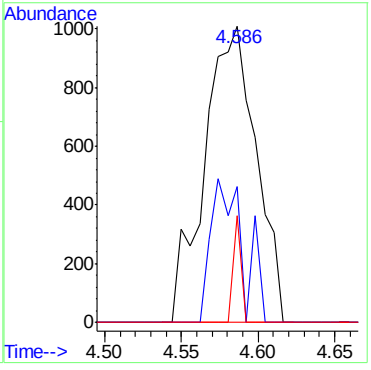
MSJ031516.M Wed May 11 16:15:36 2016 Page: 2

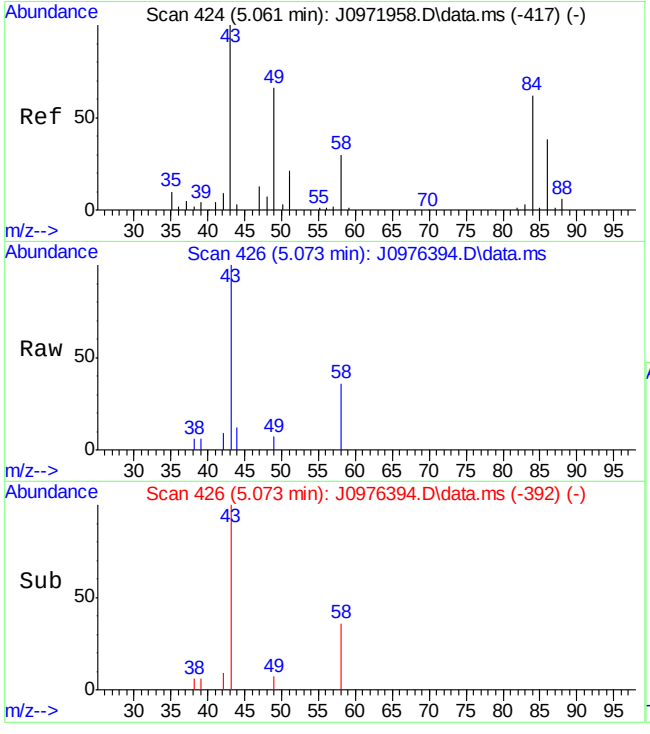


#14
Iodomethane
Concen: 0.23 ug/L
RT: 4.586 min Scan# 346
Delta R.T. 0.000 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion:142 Resp: 2388

Ion	Ratio	Lower	Upper
142	100		
127	45.7	25.3	65.3
141	36.2	0.0	33.9#

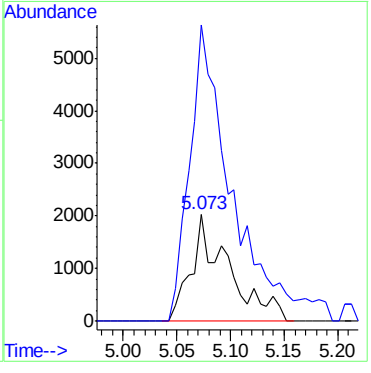


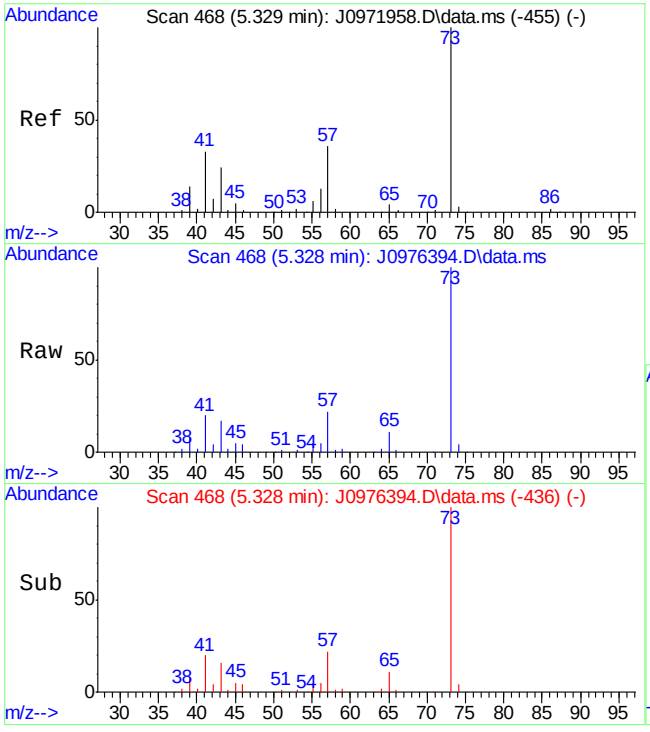


#17
Acetone
Concen: 12.72 ug/L
RT: 5.073 min Scan# 426
Delta R.T. 0.006 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion: 58 Resp: 4874

Ion	Ratio	Lower	Upper
58	100		
43	276.3	263.6	323.6

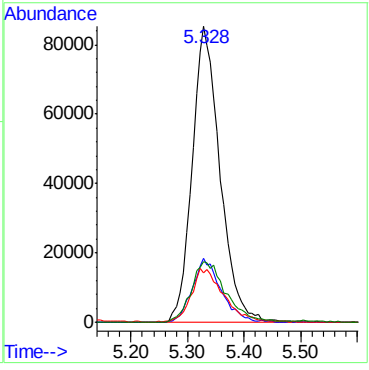


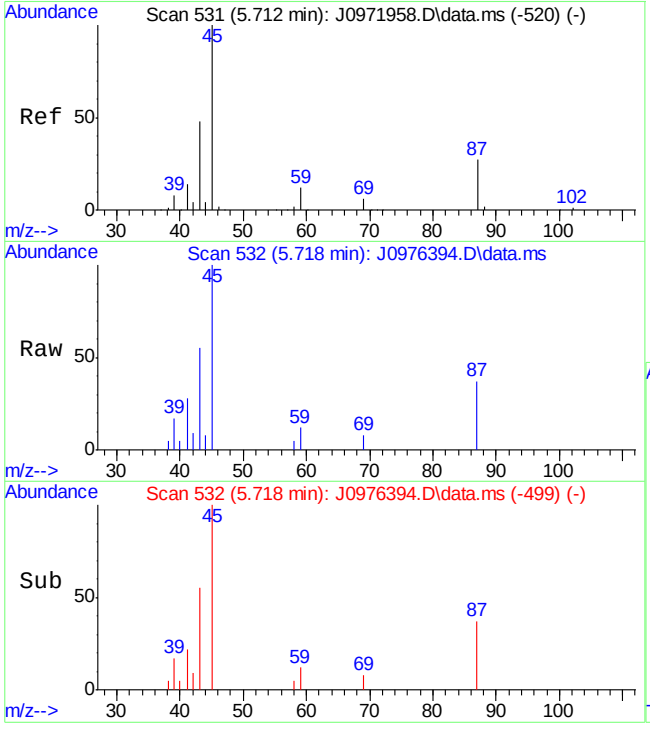


#21
Methyl Tert Butyl Ether
Concen: 17.35 ug/L
RT: 5.328 min Scan# 468
Delta R.T. -0.007 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion: 73 Resp: 293721

Ion	Ratio	Lower	Upper
73	100		
57	21.6	17.3	77.3
43	16.6	2.8	62.8
41	20.4	6.2	66.2

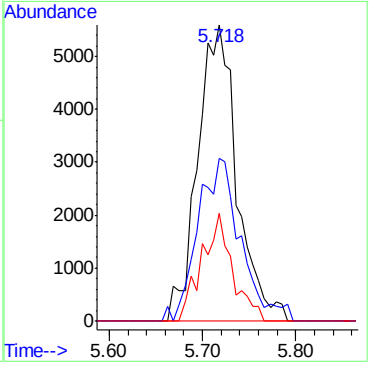


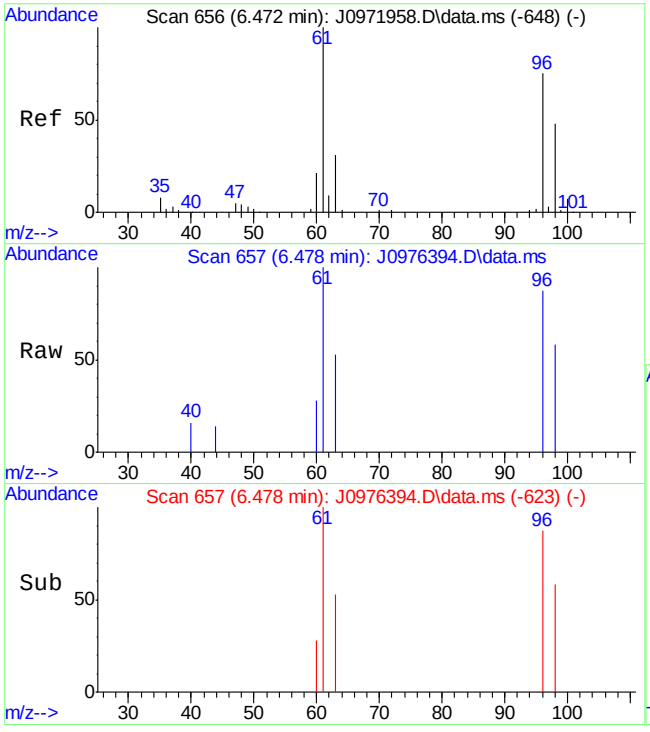


#23
Di-isopropyl ether
Concen: 0.85 ug/L
RT: 5.718 min Scan# 532
Delta R.T. -0.000 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion: 45 Resp: 16460

Ion	Ratio	Lower	Upper
45	100		
43	55.1	16.8	76.8
87	36.6	0.0	59.5

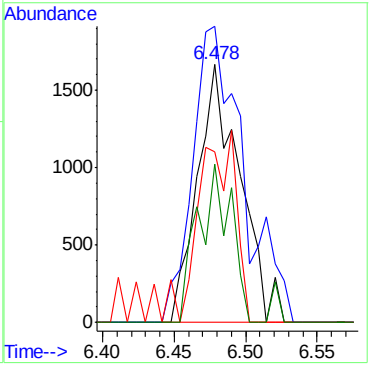


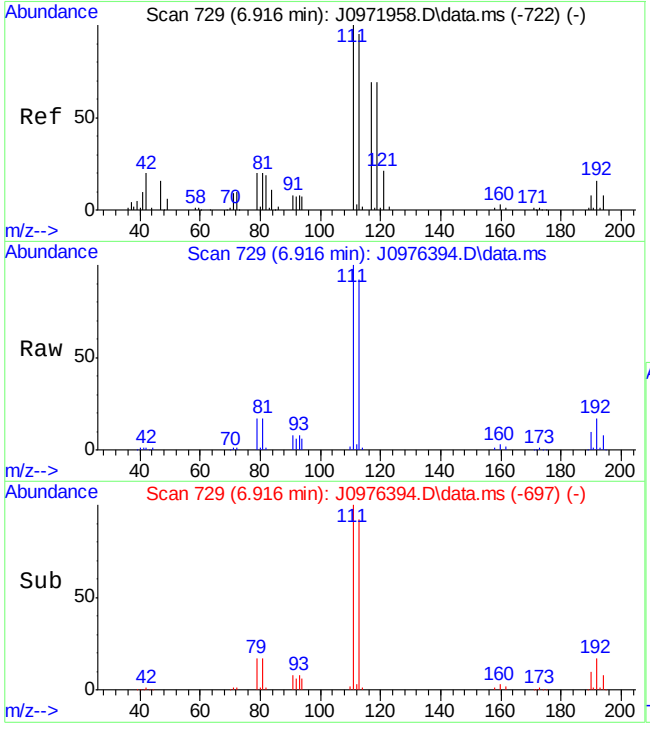


#29
cis-1,2-Dichloroethene
Concen: 0.47 ug/L
RT: 6.478 min Scan# 657
Delta R.T. 0.006 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion: 96 Resp: 3443

Ion	Ratio	Lower	Upper
96	100		
61	114.7	96.4	156.4
98	66.0	33.8	93.8
63	61.2	14.2	74.2

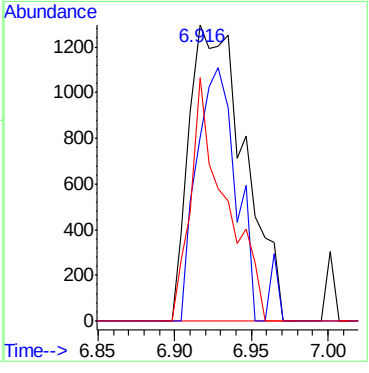


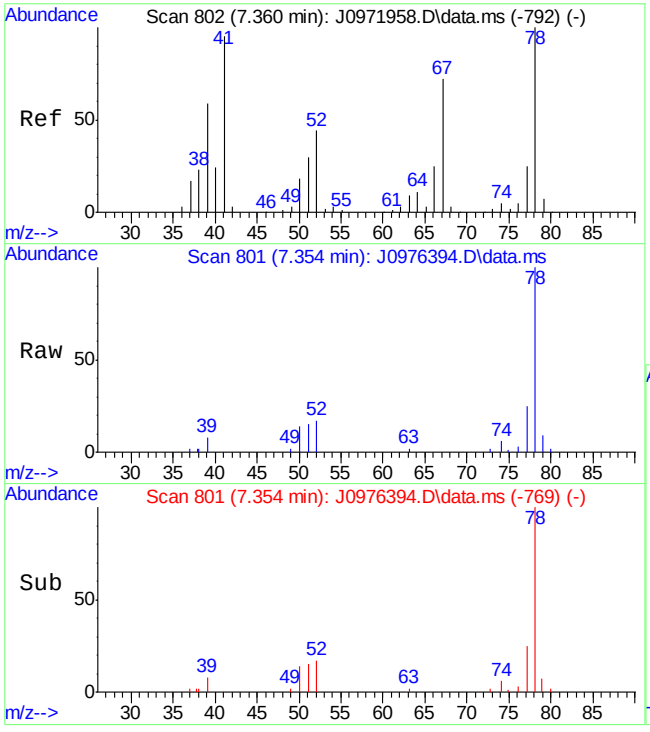


#35
Tetrahydrofuran
Concen: 2.76 ug/L
RT: 6.916 min Scan# 729
Delta R.T. -0.006 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion: 42 Resp: 3258

Ion	Ratio	Lower	Upper
42	100		
41	62.1	42.3	82.3
72	82.1	35.1	75.1#

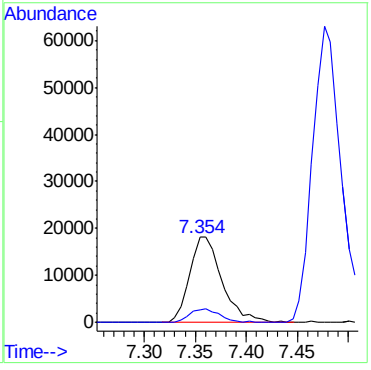


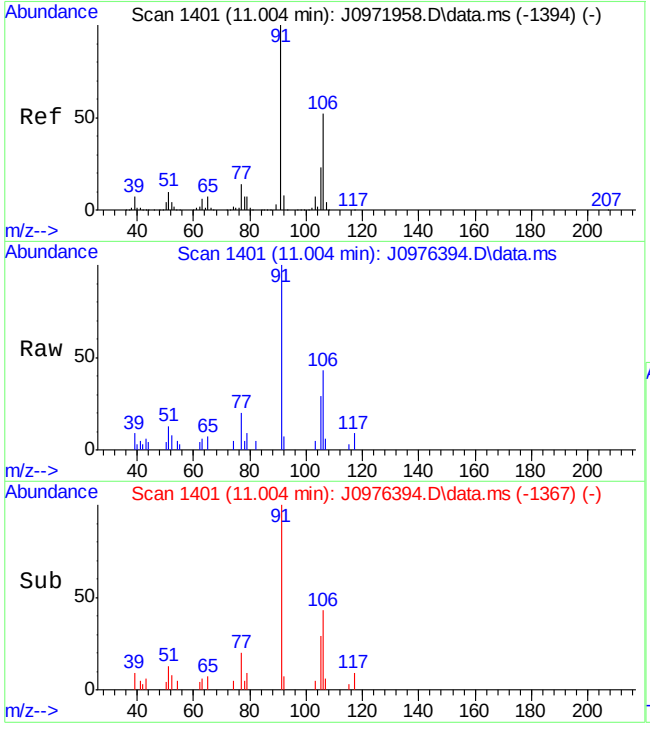


#44
Benzene
Concen: 1.51 ug/L
RT: 7.354 min Scan# 801
Delta R.T. -0.006 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion: 78 Resp: 39846

Ion	Ratio	Lower	Upper
78	100		
51	15.0	0.7	60.7

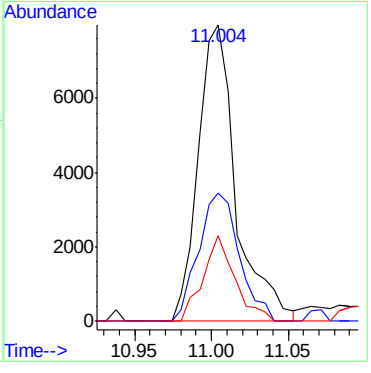


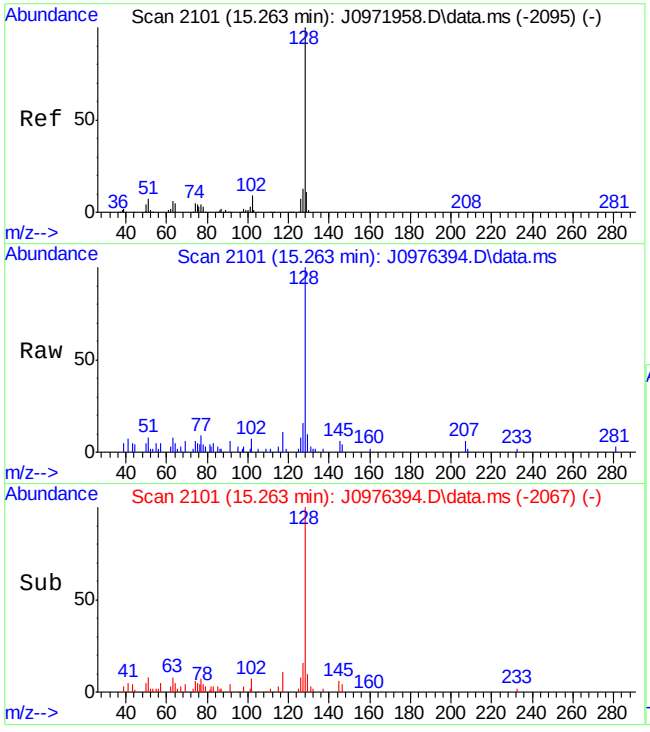


#73
m,p-Xylene
Concen: 0.47 ug/L
RT: 11.004 min Scan# 1401
Delta R.T. 0.006 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion: 91 Resp: 13672

Ion	Ratio	Lower	Upper
91	100		
106	43.3	21.6	81.6
105	28.6	0.0	53.1

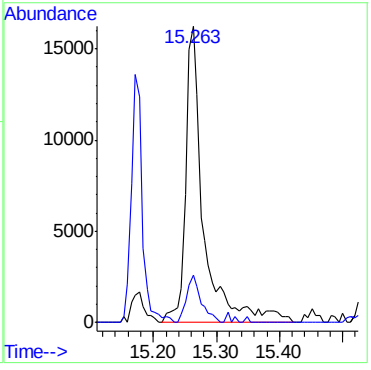


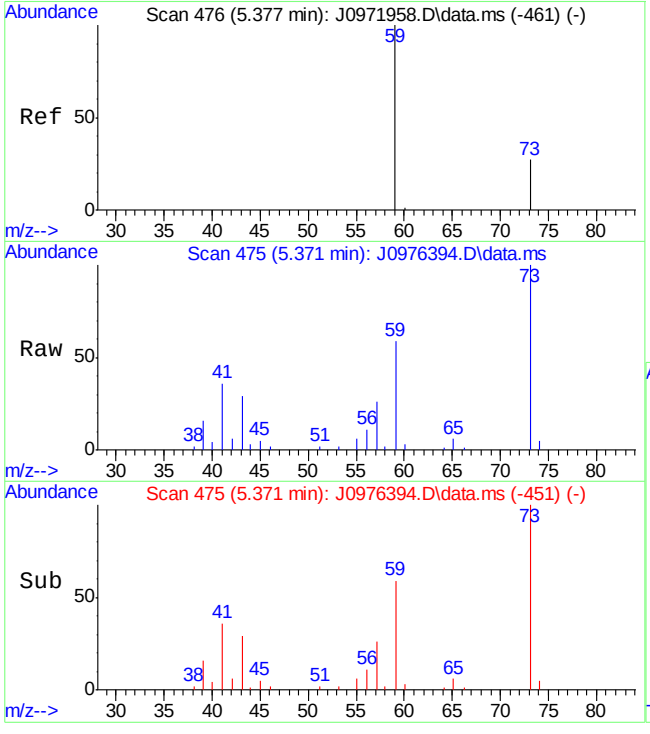


#104
Naphthalene
Concen: 1.95 ug/L
RT: 15.263 min Scan# 2101
Delta R.T. 0.006 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion:128 Resp: 31399

Ion	Ratio	Lower	Upper
128	100		
127	15.8	0.0	42.6

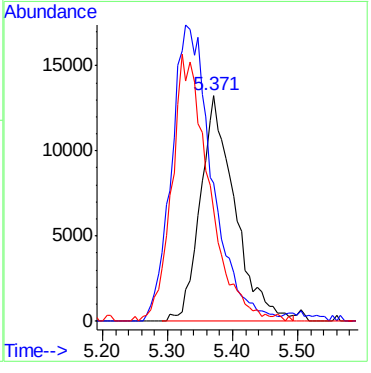


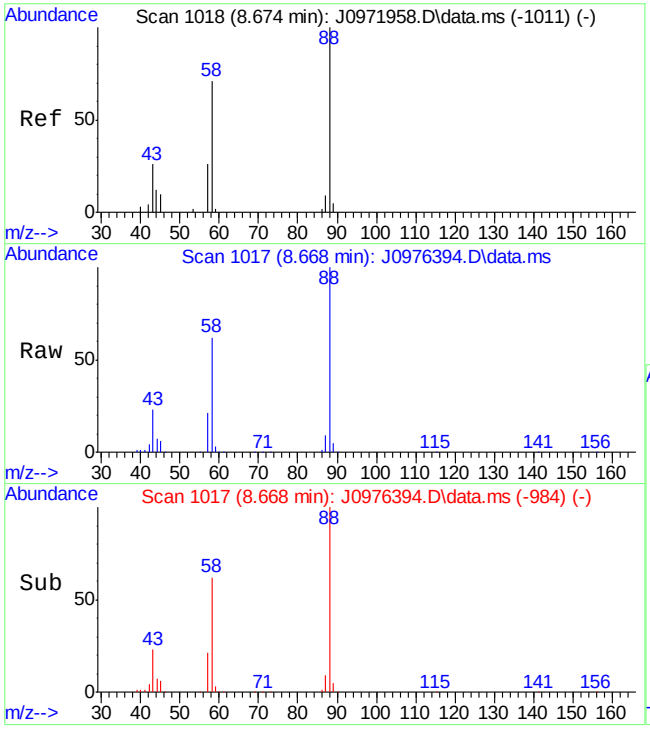


#109
Tert Butyl Alcohol
Concen: 131.99 ug/L
RT: 5.371 min Scan# 475
Delta R.T. -0.006 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion: 59 Resp: 48692

Ion	Ratio	Lower	Upper
59	100		
41	57.3	27.9	67.9
43	49.1	13.1	53.1

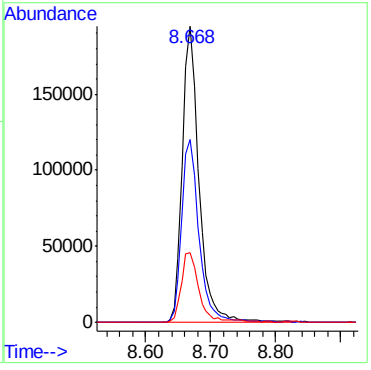




#112
1,4-Dioxane
Concen: 11338.83 ug/L
RT: 8.668 min Scan# 1017
Delta R.T. 0.000 min
Lab File: J0976394.D
Acq: 10 May 2016 1:27 pm

Tgt Ion: 88 Resp: 342676

Ion	Ratio	Lower	Upper
88	100		
58	61.9	29.4	89.4
43	23.4	0.0	57.3



SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976395.D
Acq On : 10 May 2016 1:50 pm
Operator : darshnap
Sample : fa33788-2 MA Inst : MSVOA6
Misc : MS33848,VJ5292,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 16:14:26 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1269283	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	950767	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.206	152	510513	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	73197	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	324804	50.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.86%			
46) 1,2-Dichloroethane-d4	7.482	65	386324	49.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.20%			
57) Toluene-d8	9.301	98	1263747	50.52	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.04%			
79) 4-Bromofluorobenzene	12.051	95	479876	51.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.94%			
Target Compounds						Qvalue
104) Naphthalene	15.275	128	5288	0.33	ug/L	90
112) 1,4-Dioxane	8.680	88	2509	86.32	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.2

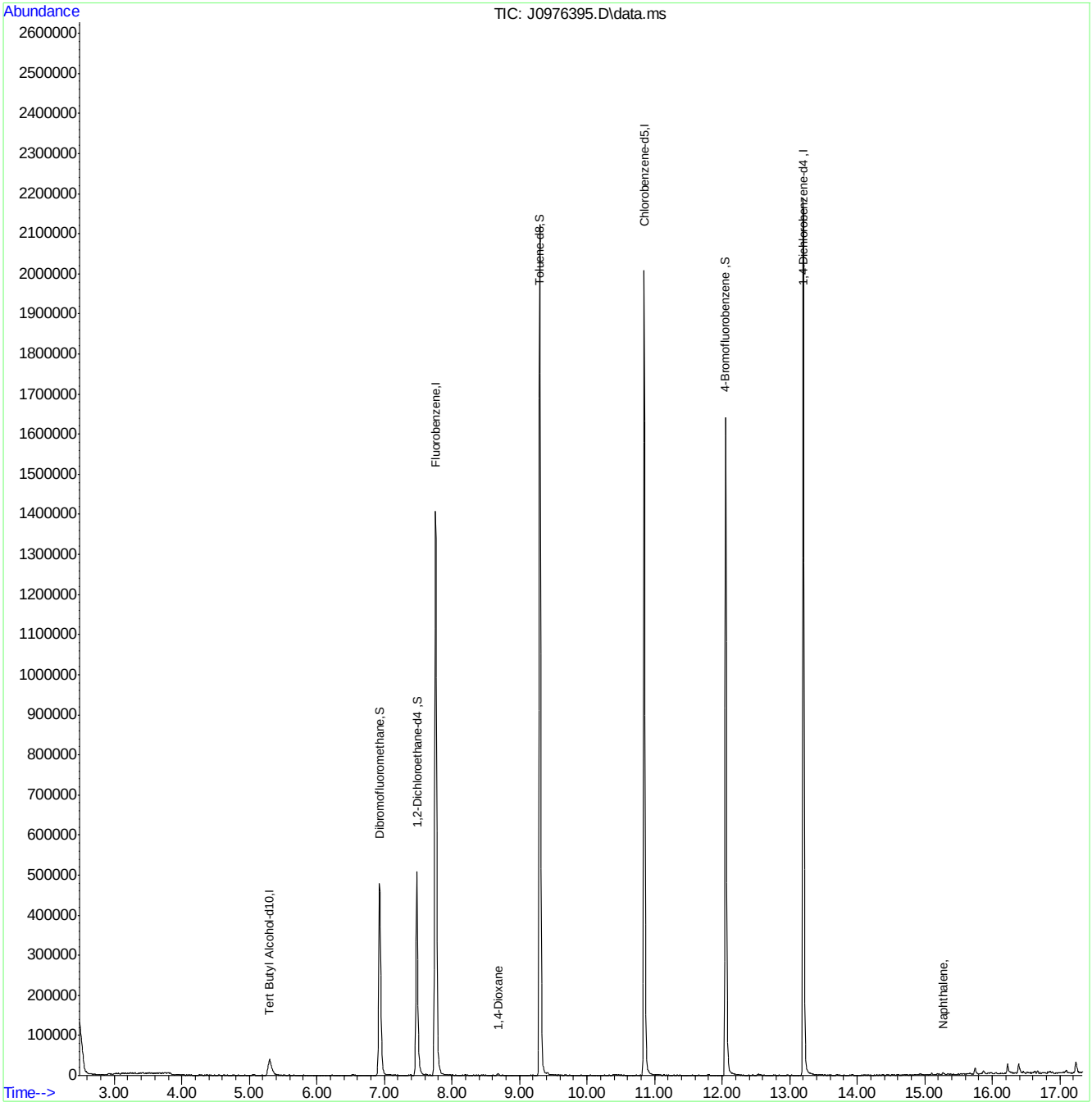
7

SGS ACCUTEST FA33788

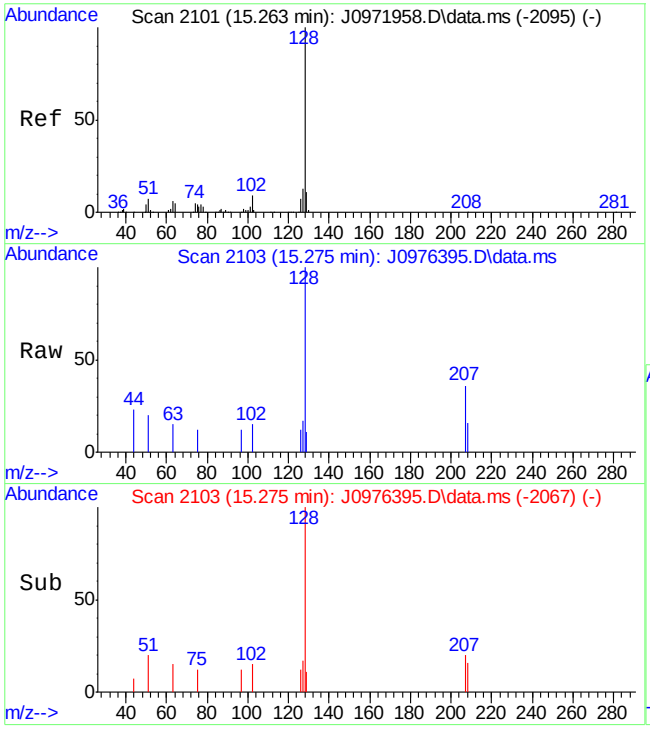
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976395.D
Acq On : 10 May 2016 1:50 pm
Operator : darshnap
Sample : fa33788-2 MA Inst : MSVOA6
Misc : MS33848,VJ5292,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 11 16:14:26 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



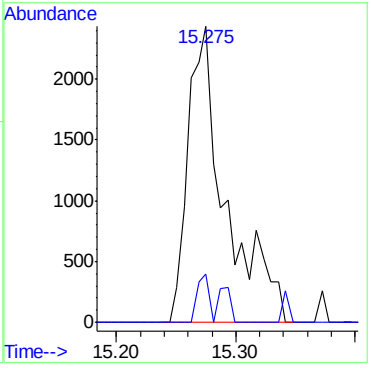
SGS ACCUTEST FA33788

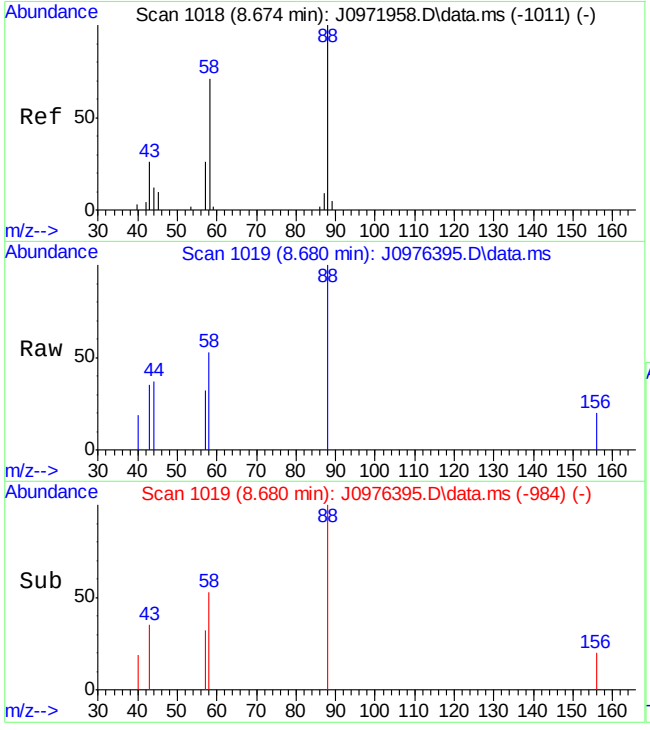


#104
Naphthalene
Concen: 0.33 ug/L
RT: 15.275 min Scan# 2103
Delta R.T. 0.018 min
Lab File: J0976395.D
Acq: 10 May 2016 1:50 pm

Tgt Ion:128 Resp: 5288

Ion	Ratio	Lower	Upper
128	100		
127	16.5	0.0	42.6

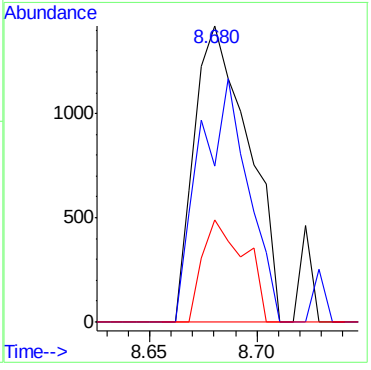




#112
1,4-Dioxane
Concen: 86.32 ug/L
RT: 8.680 min Scan# 1019
Delta R.T. 0.012 min
Lab File: J0976395.D
Acq: 10 May 2016 1:50 pm

Tgt Ion: 88 Resp: 2509

Ion	Ratio	Lower	Upper
88	100		
58	52.8	29.4	89.4
43	34.5	0.0	57.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115590.D
Acq On : 12 May 2016 4:42 pm
Operator : ericp
Sample : FA33788-3 MA Inst : MSVOA5
Misc : ms33850,vc4595,5.38,,,5,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 13 07:30:36 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

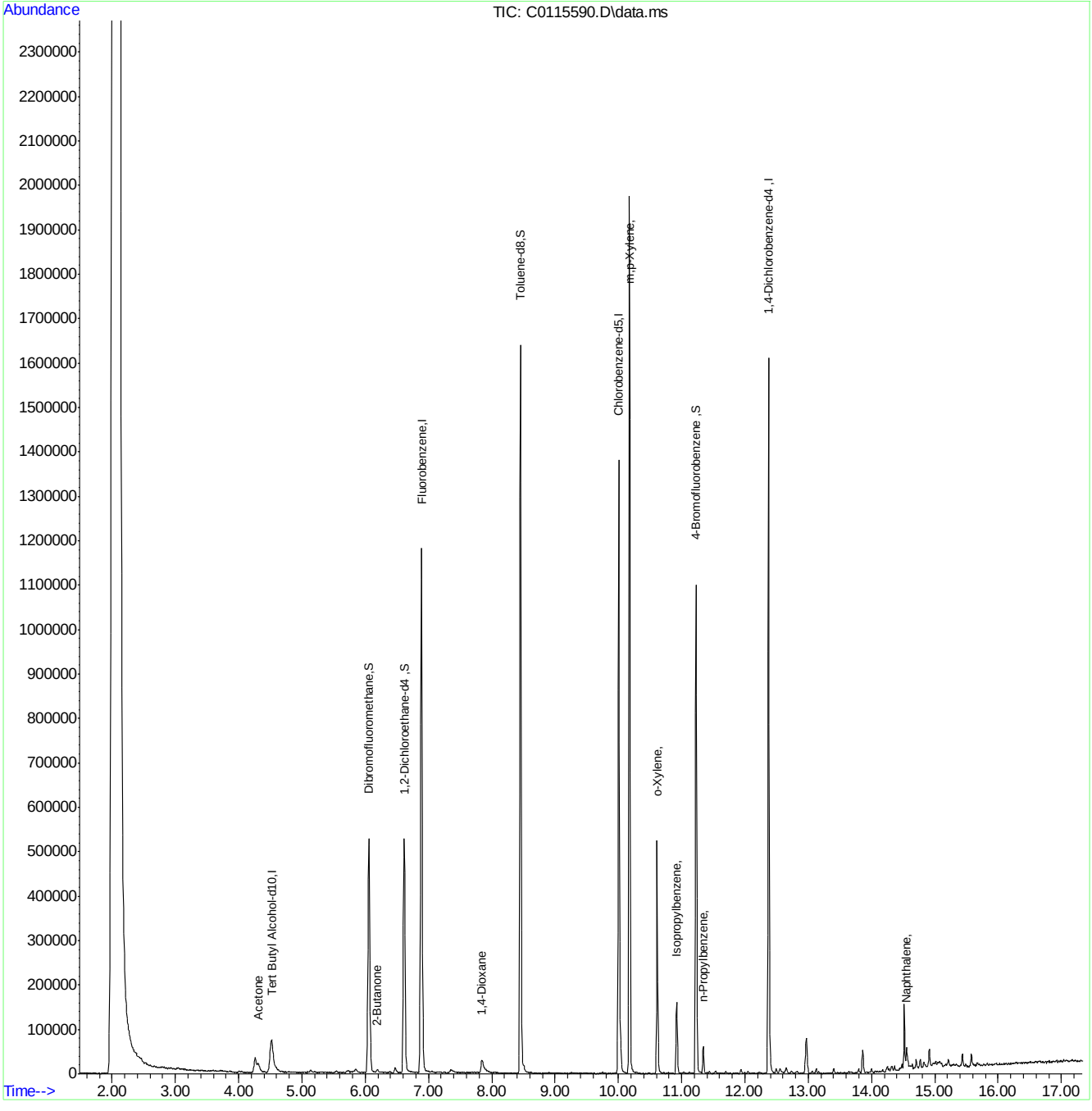
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.890	96	966869	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	611787	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	319571	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.523	65	126007	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	330584	58.46	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 116.92%			
44) 1,2-Dichloroethane-d4	6.616	65	397360	61.92	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 123.84%			
55) Toluene-d8	8.453	98	868747	48.91	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.82%			
77) 4-Bromofluorobenzene	11.227	174	197295	47.45	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 94.90%			
Target Compounds						Qvalue
16) Acetone	4.310	43	40290	30.44	ug/Kg	95
38) 2-Butanone	6.184	43	10093	5.88	ug/Kg	92
71) m,p-Xylene	10.175	91	878430	55.51	ug/Kg	99
72) o-Xylene	10.613	91	242838	11.33	ug/Kg	99
75) Isopropylbenzene	10.923	105	73086	2.90	ug/Kg	98
79) n-Propylbenzene	11.343	91	36839	1.18	ug/Kg	95
101) Naphthalene	14.555	128	25312	1.29	ug/Kg	98
109) 1,4-Dioxane	7.845	88	33043	618.09	ug/Kg	96

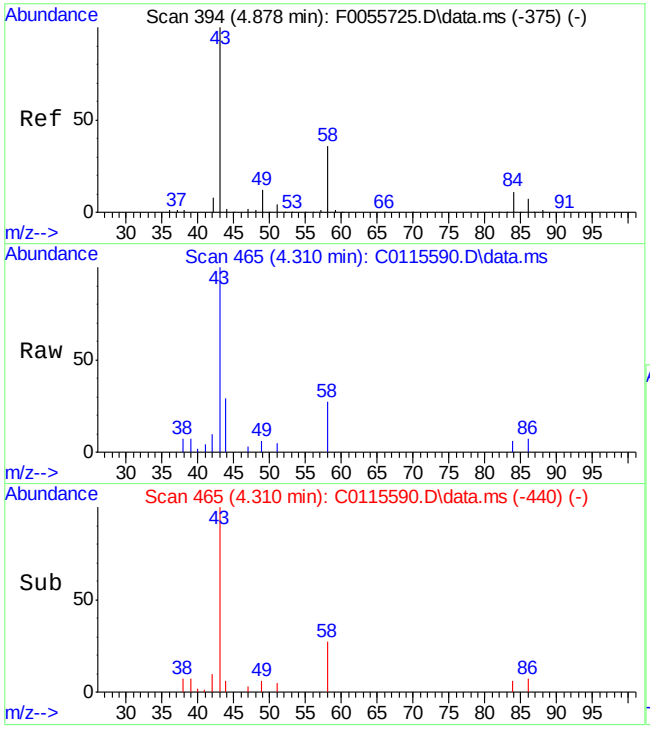
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115590.D
Acq On : 12 May 2016 4:42 pm
Operator : ericp
Sample : FA33788-3 MA Inst : MSVOA5
Misc : ms33850,vc4595,5.38,,,5,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 13 07:30:36 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

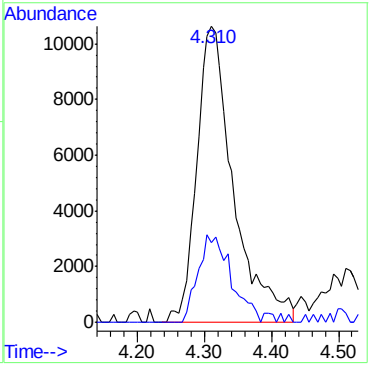


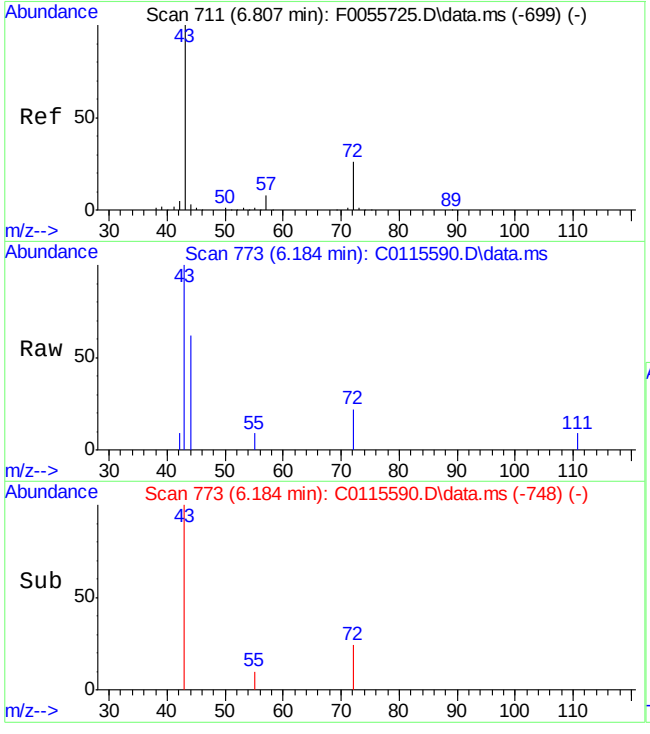


#16
Acetone
Concen: 30.44 ug/Kg
RT: 4.310 min Scan# 465
Delta R.T. 0.000 min
Lab File: C0115590.D
Acq: 12 May 2016 4:42 pm

Tgt Ion: 43 Resp: 40290

Ion	Ratio	Lower	Upper
43	100		
58	27.1	4.8	44.8

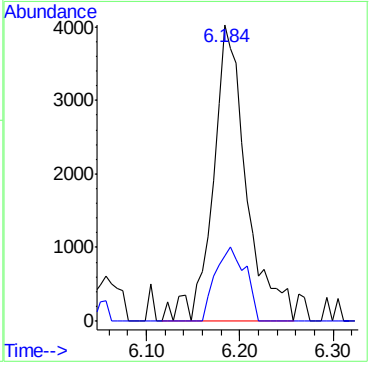


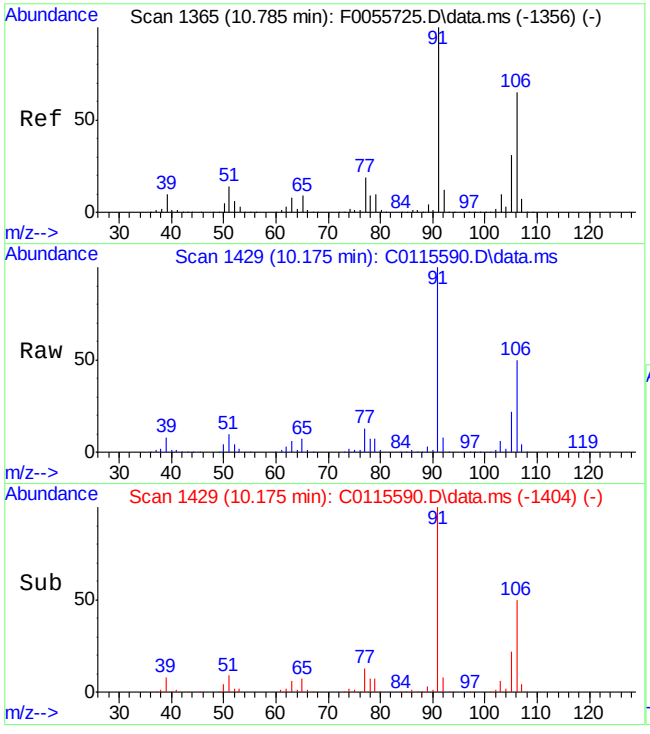


#38
2-Butanone
Concen: 5.88 ug/Kg
RT: 6.184 min Scan# 773
Delta R.T. 0.000 min
Lab File: C0115590.D
Acq: 12 May 2016 4:42 pm

Tgt Ion: 43 Resp: 10093

Ion	Ratio	Lower	Upper
43	100		
72	21.8	0.0	55.9

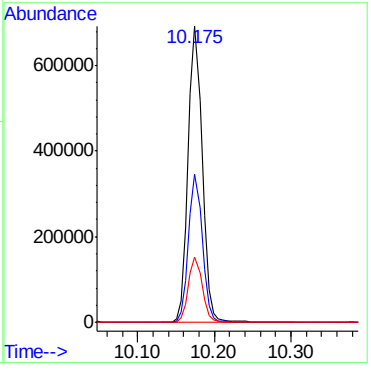


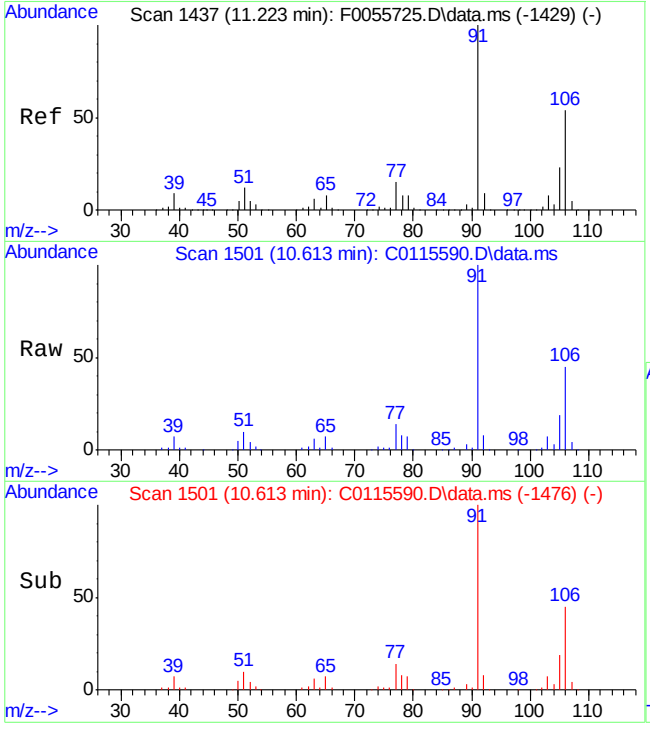


#71
m,p-Xylene
Concen: 55.51 ug/Kg
RT: 10.175 min Scan# 1429
Delta R.T. 0.000 min
Lab File: C0115590.D
Acq: 12 May 2016 4:42 pm

Tgt Ion: 91 Resp: 878430

Ion	Ratio	Lower	Upper
91	100		
106	49.8	19.3	79.3
105	22.1	0.0	52.4

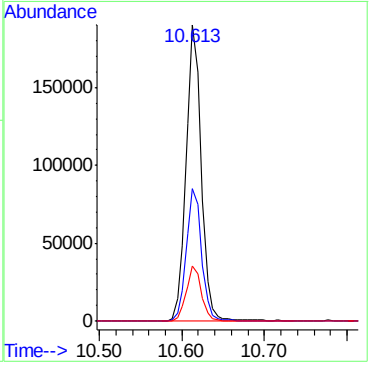


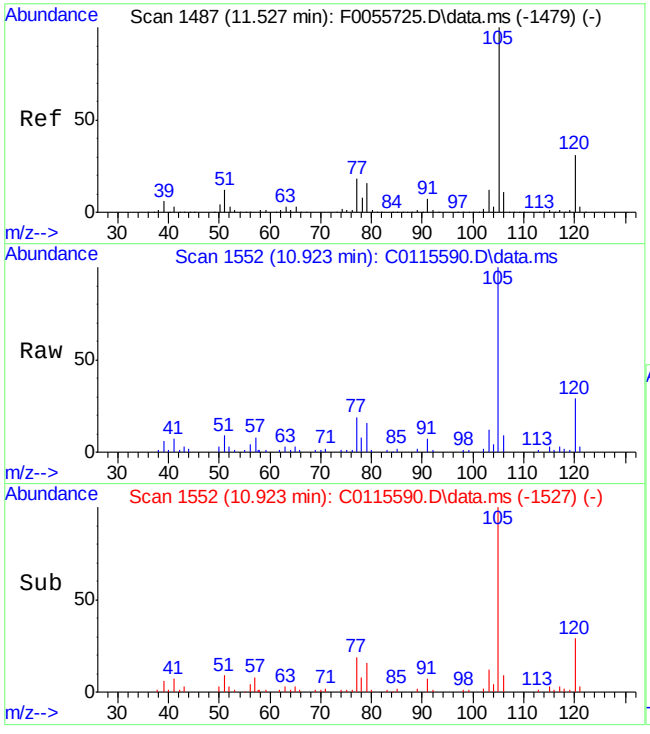


#72
o-Xylene
Concen: 11.33 ug/Kg
RT: 10.613 min Scan# 1501
Delta R.T. 0.000 min
Lab File: C0115590.D
Acq: 12 May 2016 4:42 pm

Tgt Ion: 91 Resp: 242838

Ion	Ratio	Lower	Upper
91	100		
106	44.7	15.0	75.0
105	18.6	0.0	48.0

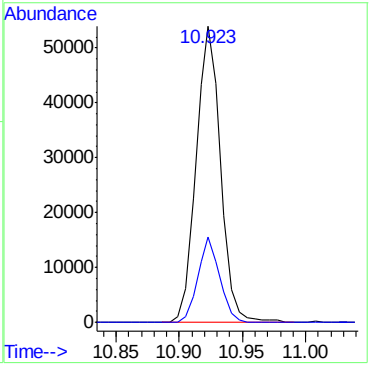


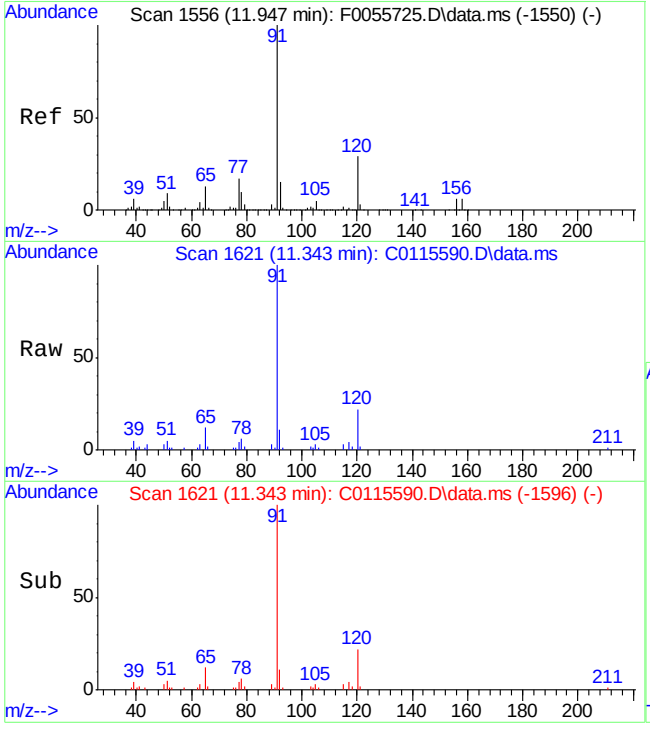


#75
Isopropylbenzene
Concen: 2.90 ug/Kg
RT: 10.923 min Scan# 1552
Delta R.T. 0.000 min
Lab File: C0115590.D
Acq: 12 May 2016 4:42 pm

Tgt Ion:105 Resp: 73086

Ion	Ratio	Lower	Upper
105	100		
120	28.6	0.0	57.8

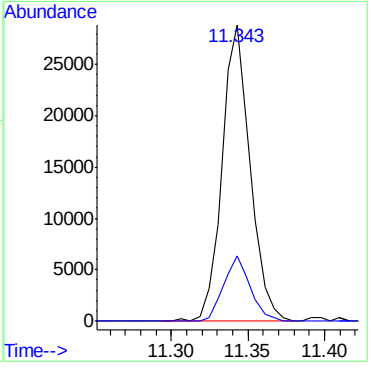


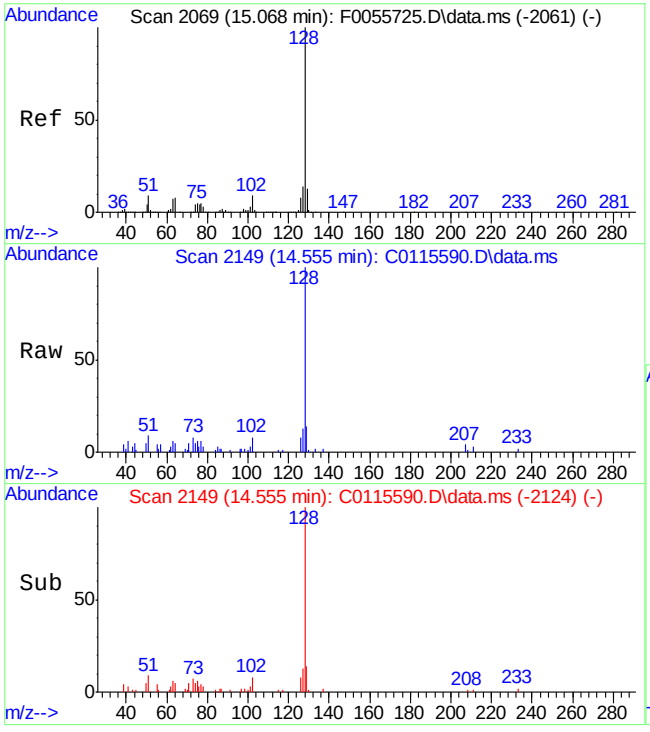


#79
n-Propylbenzene
Concen: 1.18 ug/Kg
RT: 11.343 min Scan# 1621
Delta R.T. 0.000 min
Lab File: C0115590.D
Acq: 12 May 2016 4:42 pm

Tgt Ion: 91 Resp: 36839

Ion	Ratio	Lower	Upper
91	100		
120	22.1	0.0	54.5

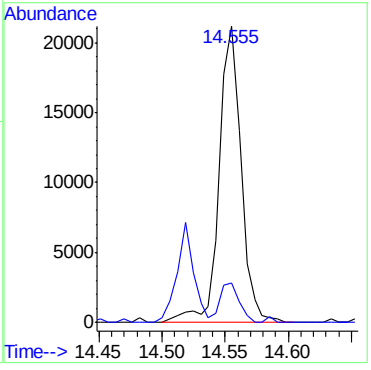


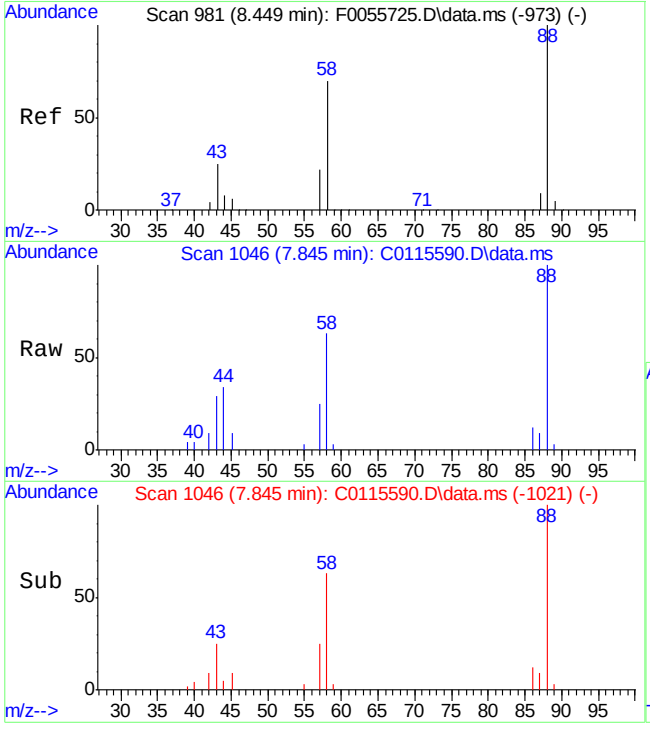


#101
Naphthalene
Concen: 1.29 ug/Kg
RT: 14.555 min Scan# 2149
Delta R.T. 0.000 min
Lab File: C0115590.D
Acq: 12 May 2016 4:42 pm

Tgt Ion:128 Resp: 25312

Ion	Ratio	Lower	Upper
128	100		
127	13.1	0.0	42.5

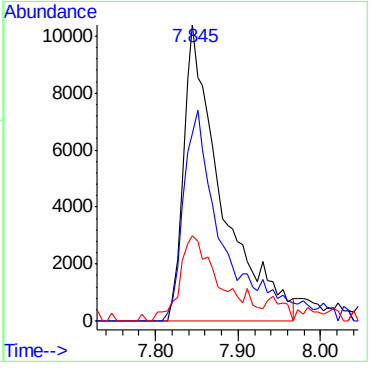




#109
1,4-Dioxane
Concen: 618.09 ug/Kg
RT: 7.845 min Scan# 1046
Delta R.T. 0.000 min
Lab File: C0115590.D
Acq: 12 May 2016 4:42 pm

Tgt Ion: 88 Resp: 33043

Ion	Ratio	Lower	Upper
88	100		
58	63.1	30.5	90.5
43	28.7	0.0	56.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077284.D
Acq On : 11 May 2016 2:51 pm
Operator : ericp
Sample : FA33788-3 MA Inst : MSVOA9
Misc : MS33850,vf2652,5.21,,,5,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 12 07:59:57 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration

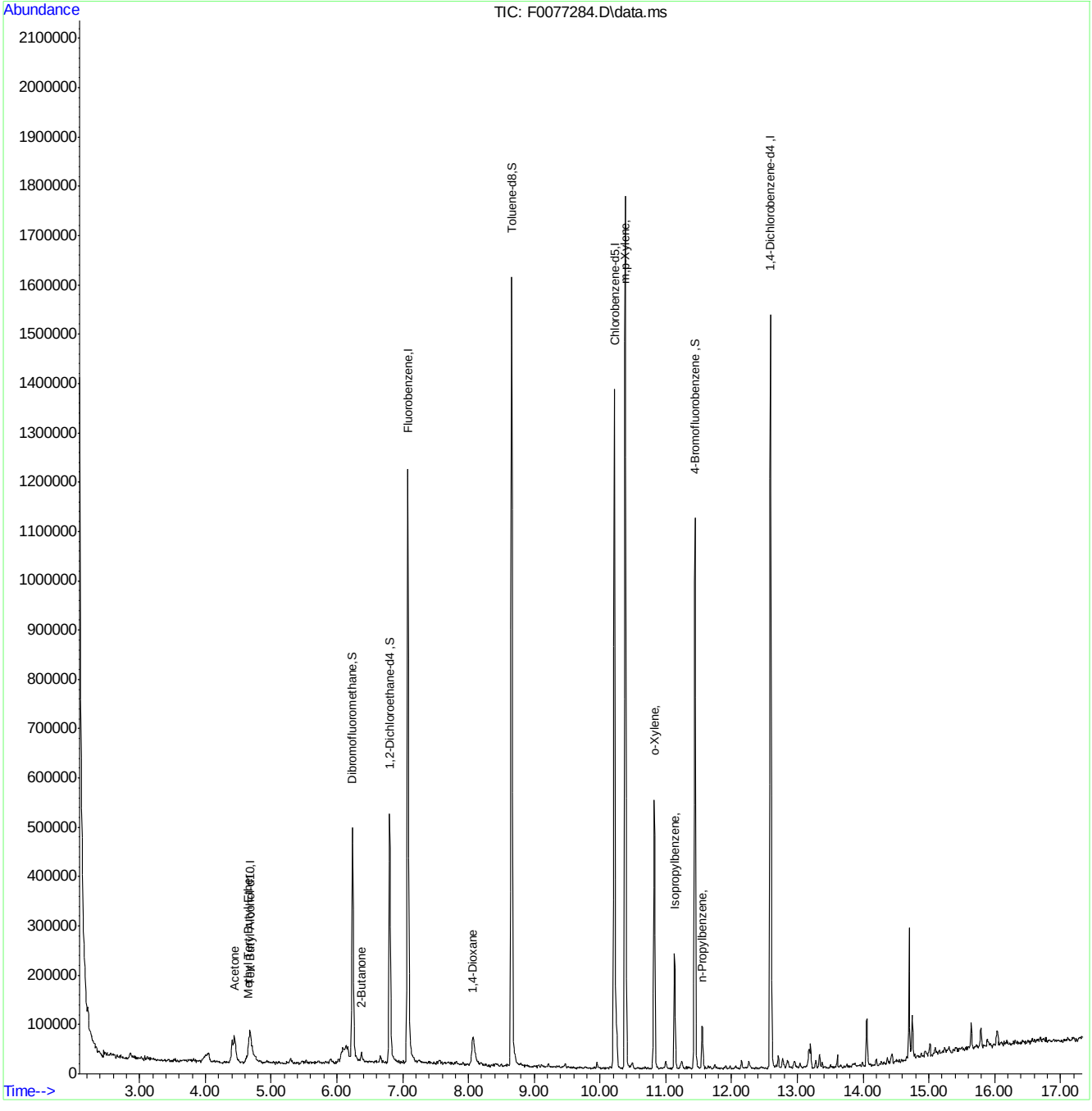
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.082	96	976970	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	633894	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	311346	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.679	65	111437	250.00	ug/Kg	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.236	113	264722	51.03	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.06%			
44) 1,2-Dichloroethane-d4	6.802	65	295910	54.62	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 109.24%			
55) Toluene-d8	8.658	98	898870	52.88	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 105.76%			
77) 4-Bromofluorobenzene	11.444	174	238080	54.84	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 109.68%			
Target Compounds						Qvalue
16) Acetone	4.442	43	86915	51.60	ug/Kg	98
20) Methyl Tert Butyl Ether	4.655	73	20851	1.28	ug/Kg	80
38) 2-Butanone	6.370	43	27034	9.03	ug/Kg	93
71) m,p-Xylene	10.385	91	804505	49.00	ug/Kg	94
72) o-Xylene	10.823	91	259745	15.31	ug/Kg	95
75) Isopropylbenzene	11.134	105	122948	6.06	ug/Kg	93
79) n-Propylbenzene	11.553	91	58104	2.48	ug/Kg	57
109) 1,4-Dioxane	8.067	88	71374	1267.29	ug/Kg	82

(#) = qualifier out of range (m) = manual integration (+) = signals summed

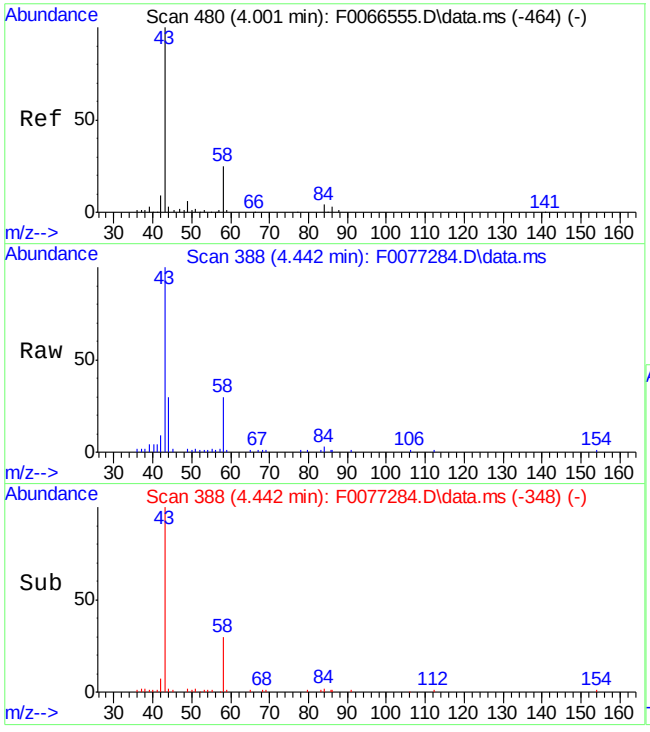
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077284.D
Acq On : 11 May 2016 2:51 pm
Operator : ericp
Sample : FA33788-3 MA Inst : MSVOA9
Misc : MS33850,vf2652,5.21,,,5,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 12 07:59:57 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration



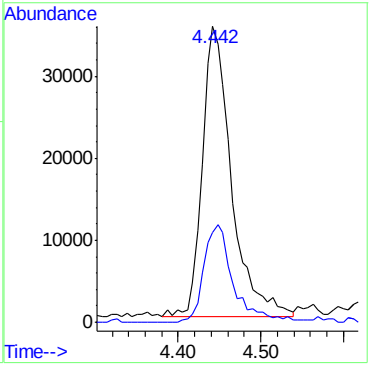
SGS ACCUTEST FA33788

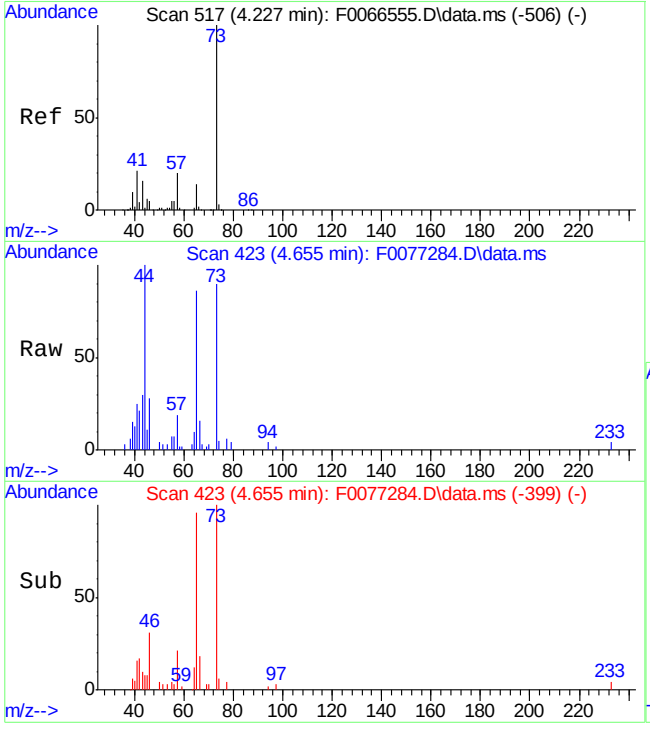


#16
Acetone
Concen: 51.60 ug/Kg
RT: 4.442 min Scan# 388
Delta R.T. -0.006 min
Lab File: F0077284.D
Acq: 11 May 2016 2:51 pm

Tgt Ion: 43 Resp: 86915

Ion	Ratio	Lower	Upper
43	100		
58	30.9	0.0	60.0

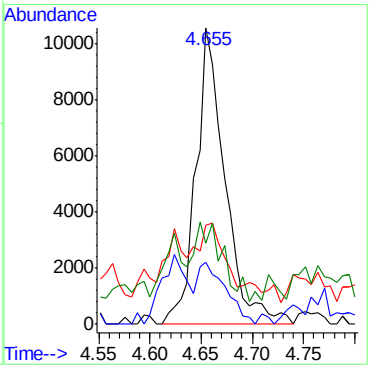


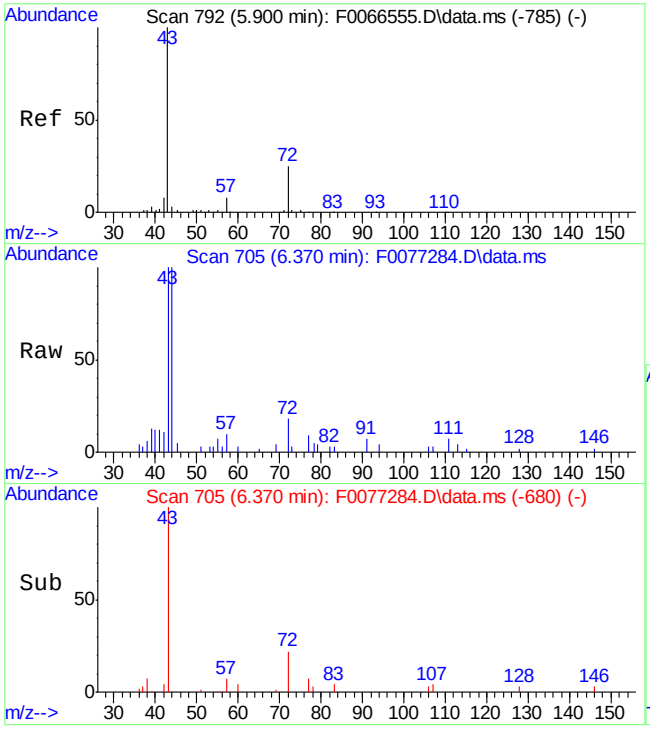


#20
Methyl Tert Butyl Ether
Concen: 1.28 ug/Kg
RT: 4.655 min Scan# 423
Delta R.T. -0.006 min
Lab File: F0077284.D
Acq: 11 May 2016 2:51 pm

Tgt Ion: 73 Resp: 20851

Ion	Ratio	Lower	Upper
73	100		
57	14.6	0.0	55.6
43	17.0	0.0	51.9
41	10.7	0.0	53.7

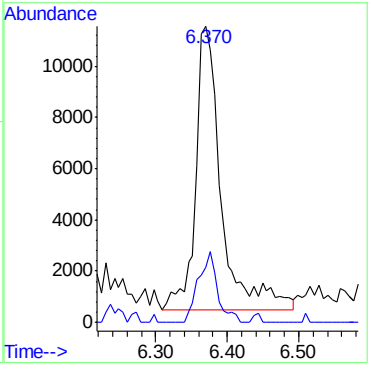


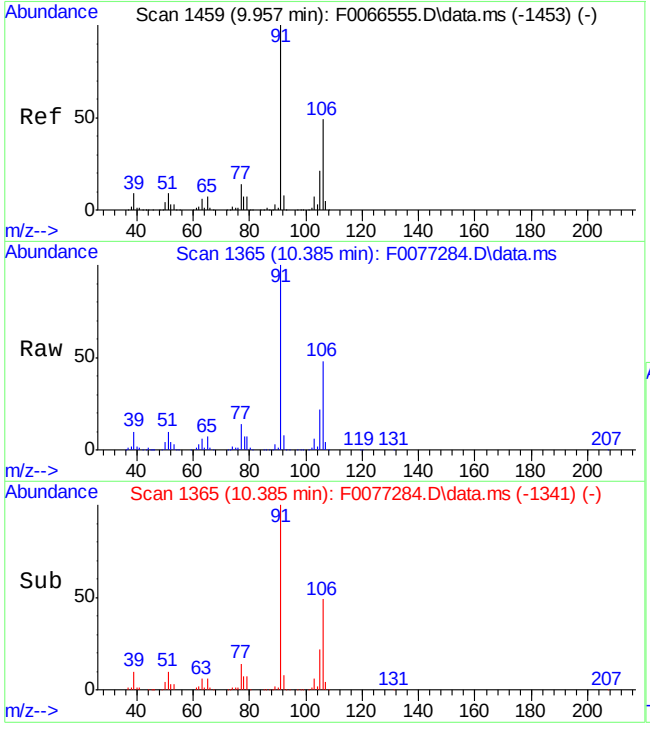


#38
2-Butanone
Concen: 9.03 ug/Kg
RT: 6.370 min Scan# 705
Delta R.T. 0.000 min
Lab File: F0077284.D
Acq: 11 May 2016 2:51 pm

Tgt Ion: 43 Resp: 27034

Ion	Ratio	Lower	Upper
43	100		
72	19.2	0.0	52.6

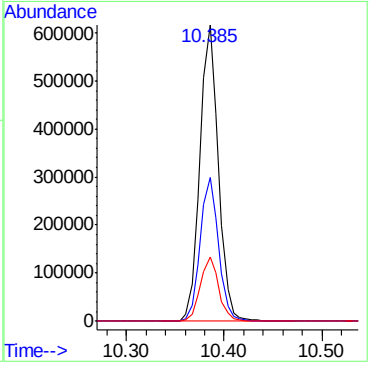




#71
m,p-Xylene
Concen: 49.00 ug/Kg
RT: 10.385 min Scan# 1365
Delta R.T. -0.006 min
Lab File: F0077284.D
Acq: 11 May 2016 2:51 pm

Tgt Ion: 91 Resp: 804505

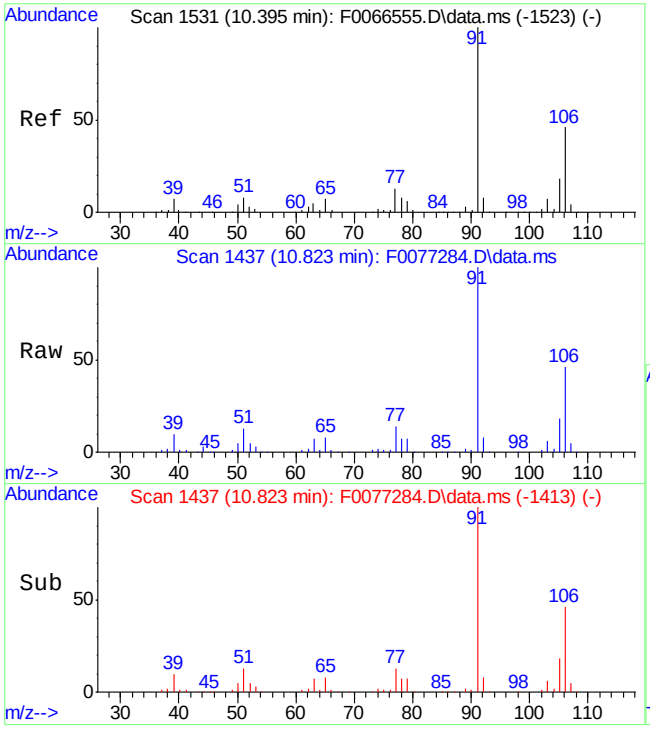
Ion	Ratio	Lower	Upper
91	100		
106	48.3	24.1	84.1
105	21.8	0.0	53.0



7.1.4

7

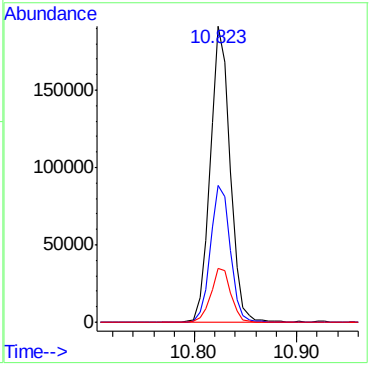
SGS ACCUTEST FA33788

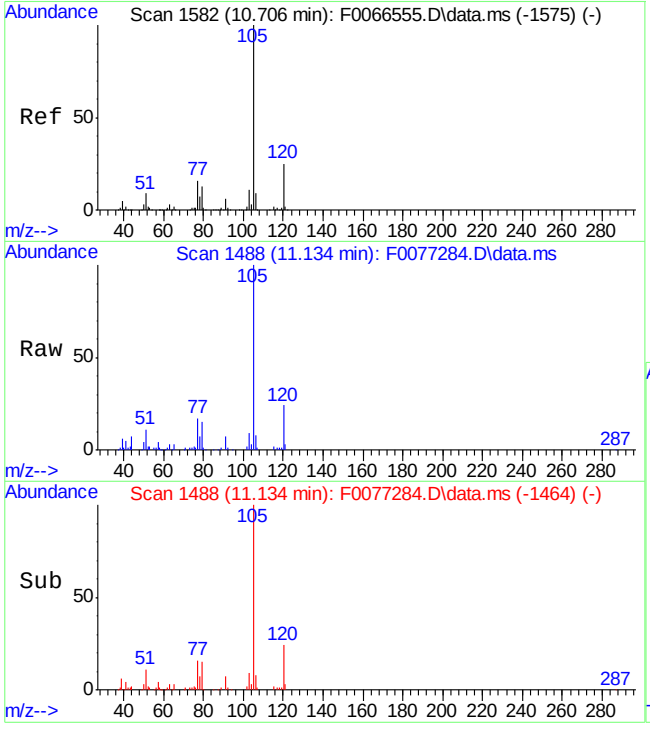


#72
o-Xylene
Concen: 15.31 ug/Kg
RT: 10.823 min Scan# 1437
Delta R.T. -0.006 min
Lab File: F0077284.D
Acq: 11 May 2016 2:51 pm

Tgt Ion: 91 Resp: 259745

Ion	Ratio	Lower	Upper
91	100		
106	46.3	19.8	79.8
105	18.0	0.0	49.6

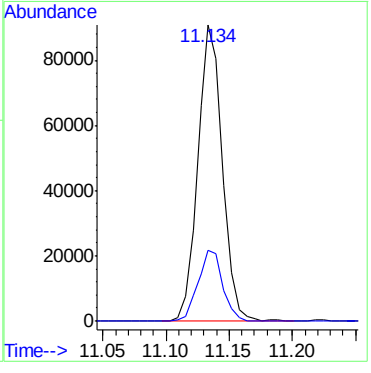


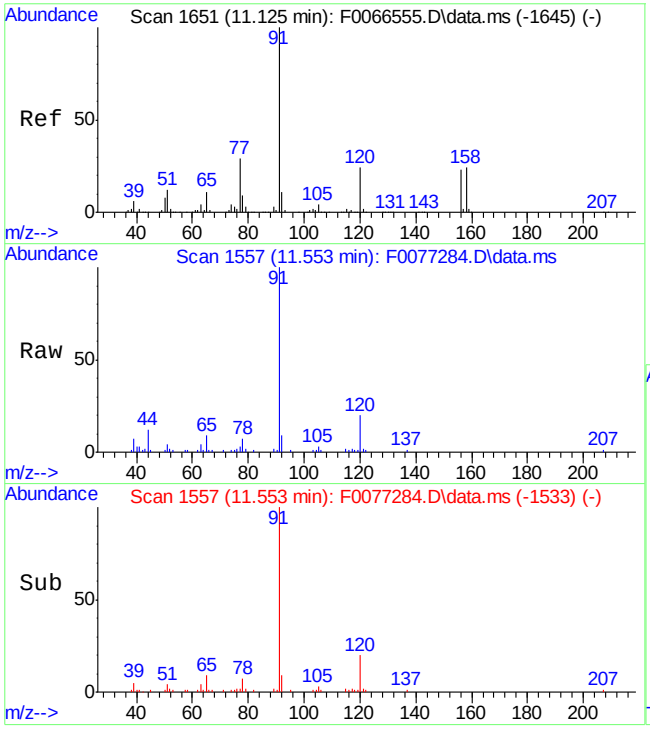


#75
Isopropylbenzene
Concen: 6.06 ug/Kg
RT: 11.134 min Scan# 1488
Delta R.T. -0.006 min
Lab File: F0077284.D
Acq: 11 May 2016 2:51 pm

Tgt Ion:105 Resp: 122948

Ion	Ratio	Lower	Upper
105	100		
120	23.9	0.0	57.8

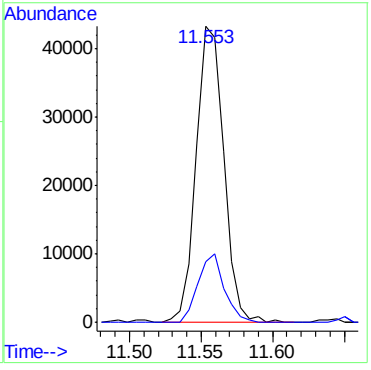


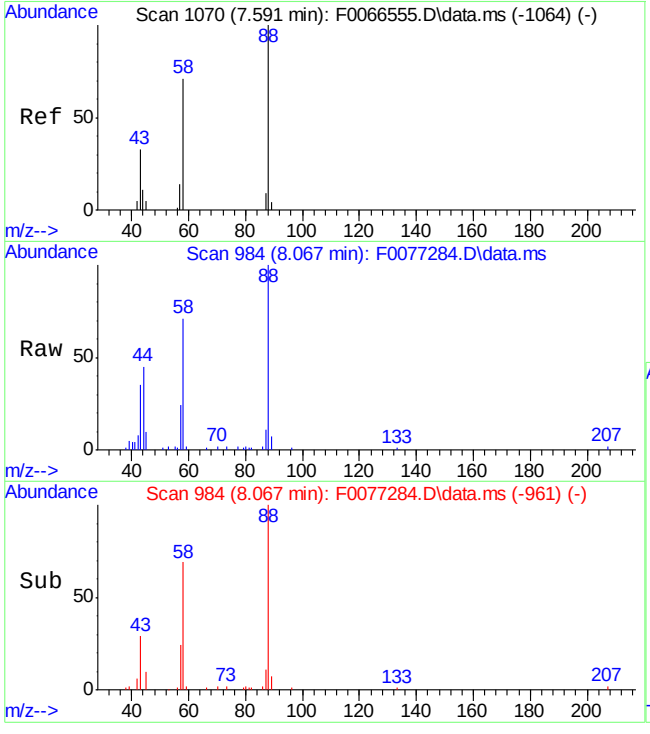


#79
n-Propylbenzene
Concen: 2.48 ug/Kg
RT: 11.553 min Scan# 1557
Delta R.T. -0.006 min
Lab File: F0077284.D
Acq: 11 May 2016 2:51 pm

Tgt Ion: 91 Resp: 58104

Ion	Ratio	Lower	Upper
91	100		
120	20.5	20.0	80.0

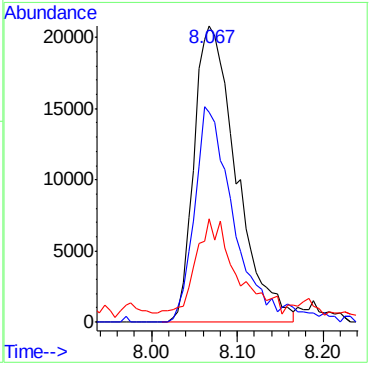




#109
1,4-Dioxane
Concen: 1267.29 ug/Kg
RT: 8.067 min Scan# 984
Delta R.T. -0.013 min
Lab File: F0077284.D
Acq: 11 May 2016 2:51 pm

Tgt Ion: 88 Resp: 71374

Ion	Ratio	Lower	Upper
88	100		
58	70.9	60.0	120.0
43	31.0	0.0	55.0



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976396.D
Acq On : 10 May 2016 2:13 pm
Operator : darshnap
Sample : fa33788-4 MA Inst : MSVOA6
Misc : MS33848,VJ5292,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 16:15:05 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

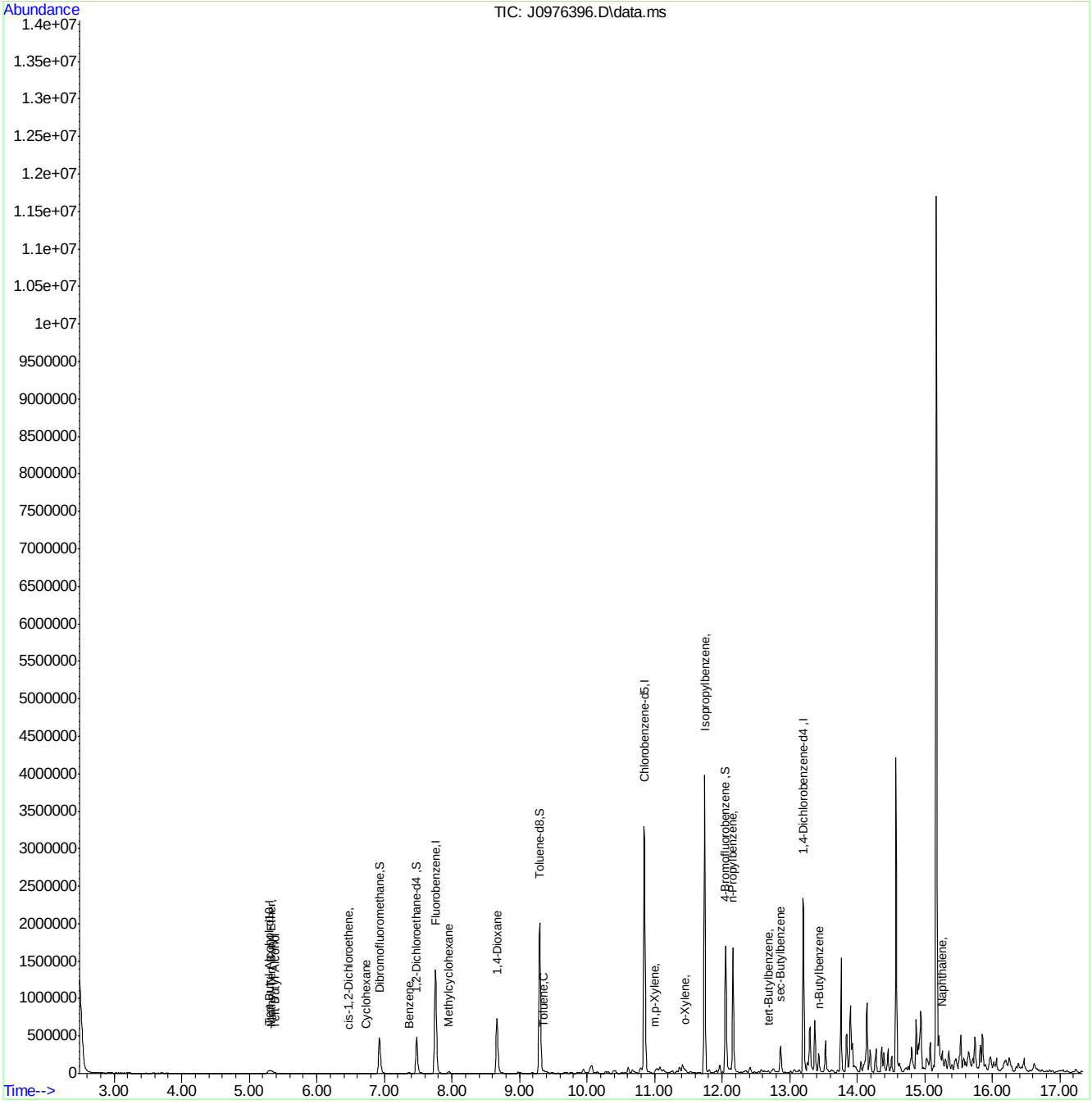
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1227862	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	967629	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	528417	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	75160	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.929	113	318740	51.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.32%			
46) 1,2-Dichloroethane-d4	7.476	65	373029	49.51	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.02%			
57) Toluene-d8	9.301	98	1229603	48.30	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.60%			
79) 4-Bromofluorobenzene	12.051	95	493117	51.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.18%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.329	73	27349	1.68	ug/L	73
29) cis-1,2-Dichloroethene	6.472	96	1671	0.24	ug/L	86
32) Cyclohexane	6.728	56	3295	0.32	ug/L #	77
44) Benzene	7.367	78	12943	0.51	ug/L	73
49) Methylcyclohexane	7.957	83	11407	1.03	ug/L	89
58) Toluene	9.350	91	6384	0.23	ug/L	84
73) m,p-Xylene	11.005	91	12729	0.45	ug/L	99
74) o-Xylene	11.443	91	24767	1.00	ug/L	94
77) Isopropylbenzene	11.741	105	2167583	75.97	ug/L	96
81) n-Propylbenzene	12.160	91	1122755	33.49	ug/L	99
91) tert-Butylbenzene	12.684	91	5362	0.36	ug/L	78
94) sec-Butylbenzene	12.866	105	167746	5.48	ug/L	90
98) n-Butylbenzene	13.432	92	56504	3.81	ug/L	96
104) Naphthalene	15.257	128	20673	1.25	ug/L	69
109) Tert Butyl Alcohol	5.377	59	7749	21.27	ug/L	82
112) 1,4-Dioxane	8.668	88	534679	17915.42	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

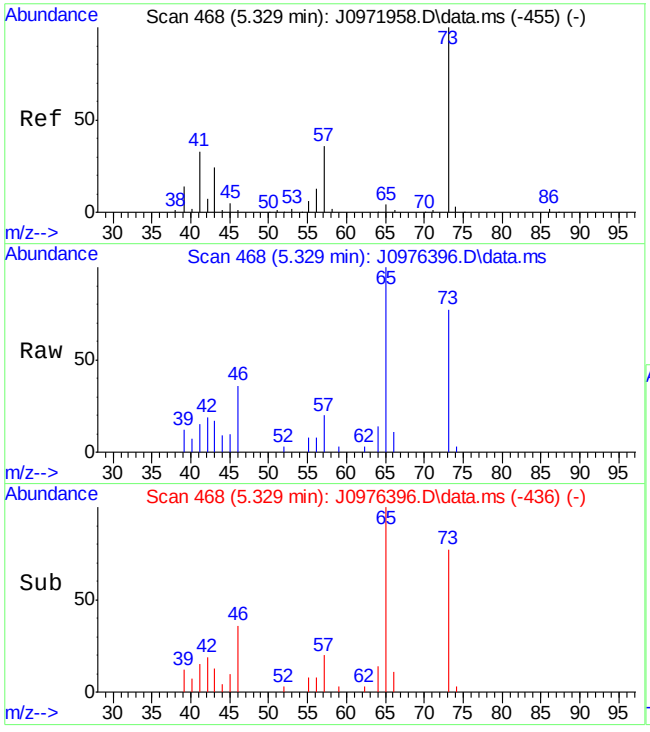
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976396.D
Acq On : 10 May 2016 2:13 pm
Operator : darshnap
Sample : fa33788-4 MA Inst : MSVOA6
Misc : MS33848,VJ5292,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 11 16:15:05 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



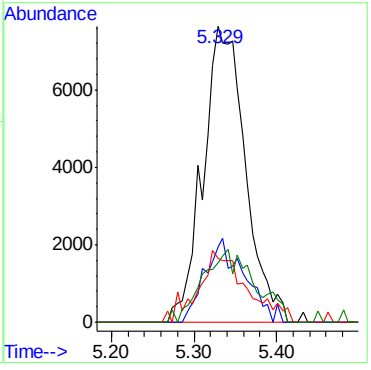
MSJ031516.M Wed May 11 16:15:41 2016 Page: 2

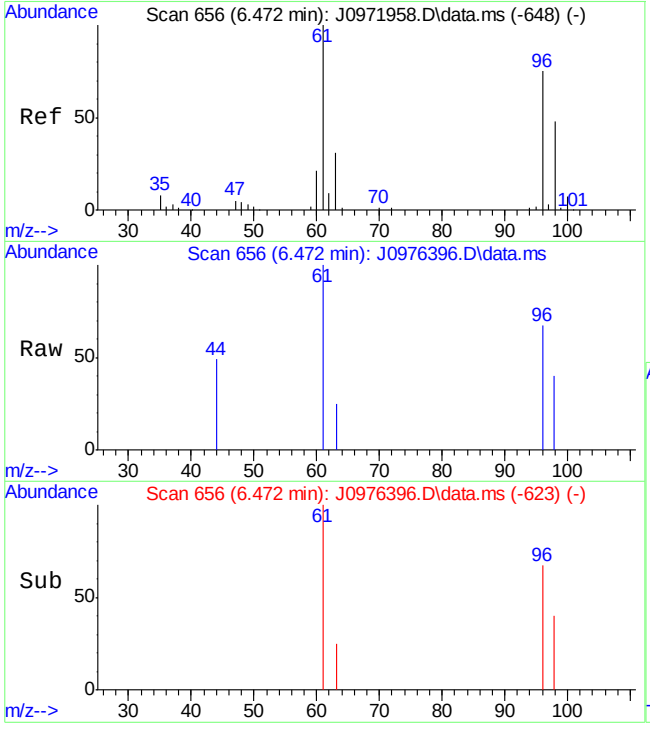


#21
Methyl Tert Butyl Ether
Concen: 1.68 ug/L
RT: 5.329 min Scan# 468
Delta R.T. -0.006 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 73 Resp: 27349

Ion	Ratio	Lower	Upper
73	100		
57	25.5	17.3	77.3
43	21.7	2.8	62.8
41	20.2	6.2	66.2

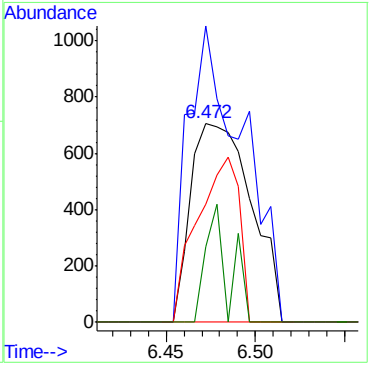




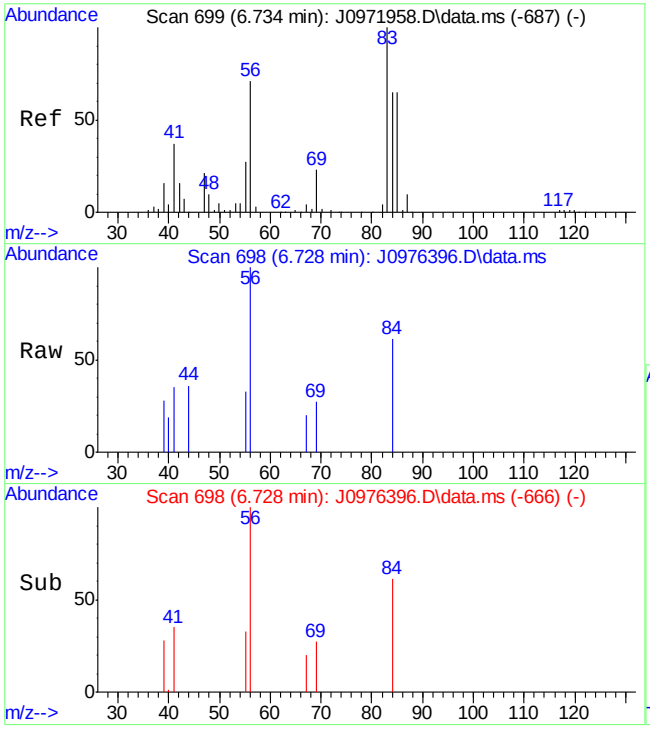
#29
cis-1,2-Dichloroethene
Concen: 0.24 ug/L
RT: 6.472 min Scan# 656
Delta R.T. 0.000 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 96 Resp: 1671

Ion	Ratio	Lower	Upper
96	100		
61	149.2	96.4	156.4
98	59.1	33.8	93.8
63	38.0	14.2	74.2



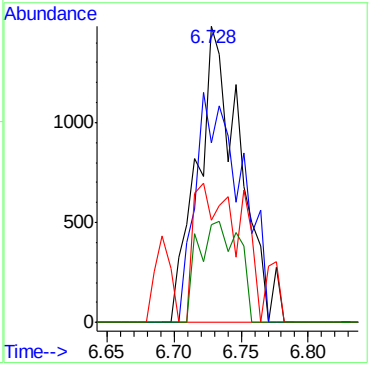
SGS ACCUTEST FA33788

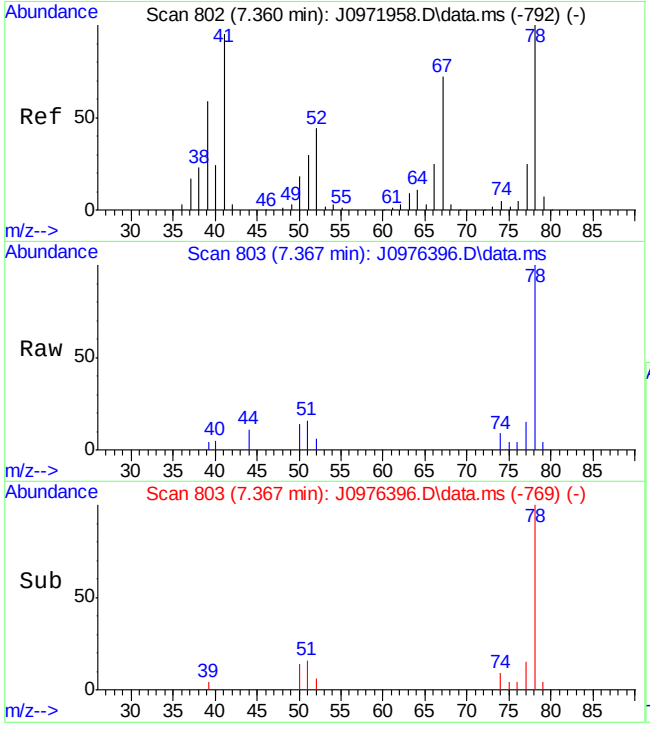


#32
Cyclohexane
Concen: 0.32 ug/L
RT: 6.728 min Scan# 698
Delta R.T. -0.006 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 56 Resp: 3295

Ion	Ratio	Lower	Upper
56	100		
84	60.5	69.0	109.0#
41	34.6	31.3	71.3
55	33.0	15.8	55.8

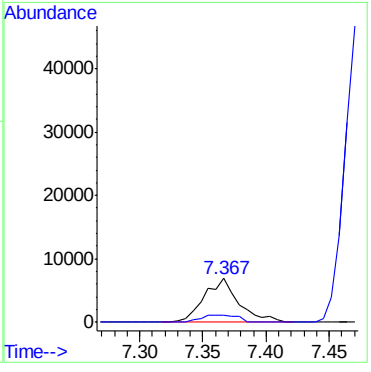


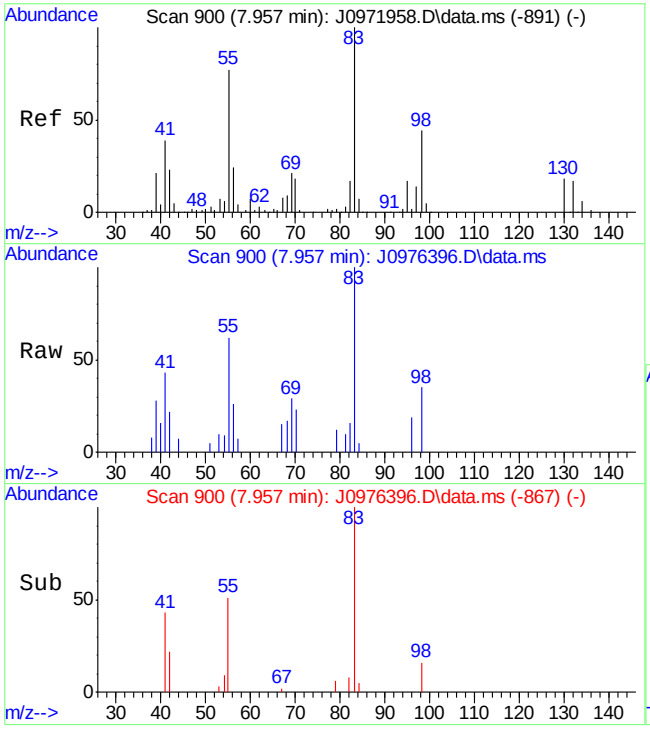


#44
Benzene
Concen: 0.51 ug/L
RT: 7.367 min Scan# 803
Delta R.T. 0.007 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 78 Resp: 12943

Ion	Ratio	Lower	Upper
78	100		
51	16.0	0.7	60.7

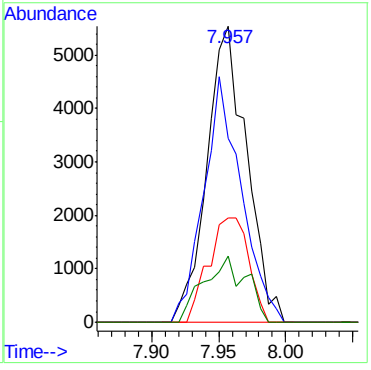


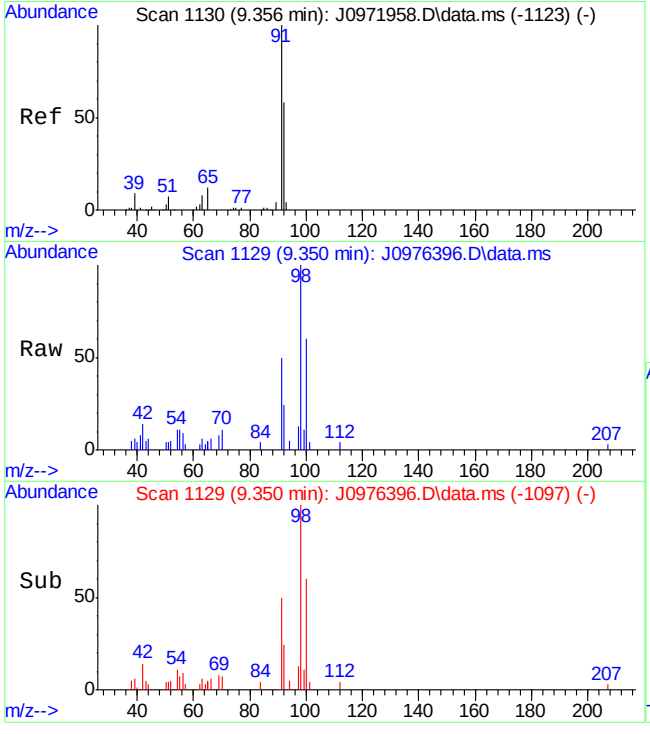


#49
Methylcyclohexane
Concen: 1.03 ug/L
RT: 7.957 min Scan# 900
Delta R.T. 0.000 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 83 Resp: 11407

Ion	Ratio	Lower	Upper
83	100		
55	62.1	54.8	94.8
98	35.4	22.7	62.7
42	22.4	2.5	42.5

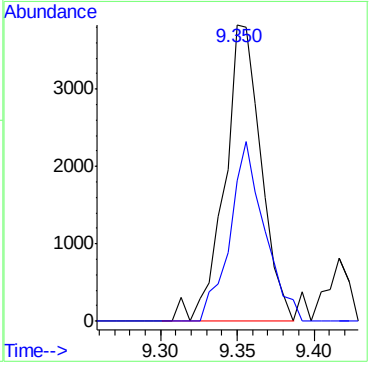


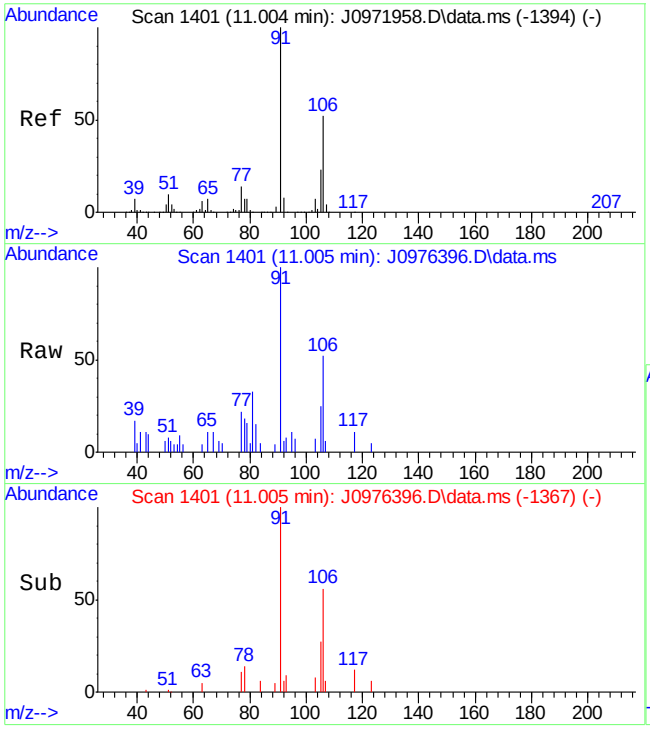


#58
Toluene
Concen: 0.23 ug/L
RT: 9.350 min Scan# 1129
Delta R.T. -0.006 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 91 Resp: 6384

Ion	Ratio	Lower	Upper
91	100		
92	47.4	29.4	89.4

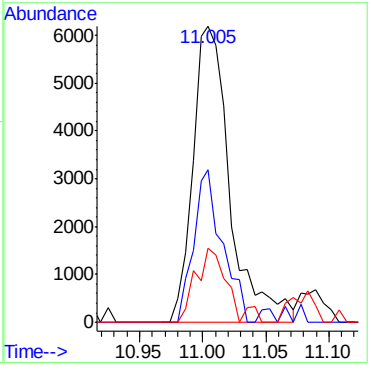


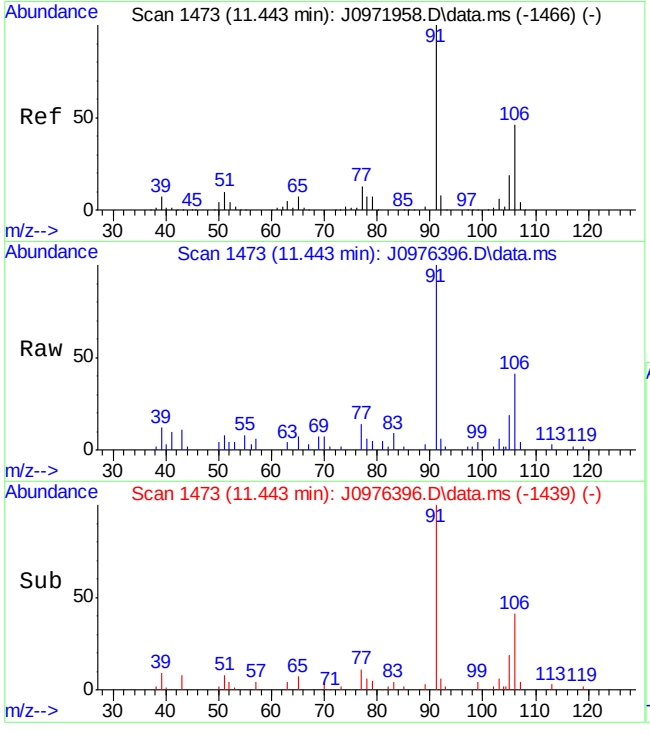


#73
m,p-Xylene
Concen: 0.45 ug/L
RT: 11.005 min Scan# 1401
Delta R.T. 0.007 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 91 Resp: 12729

Ion	Ratio	Lower	Upper
91	100		
106	51.6	21.6	81.6
105	25.0	0.0	53.1

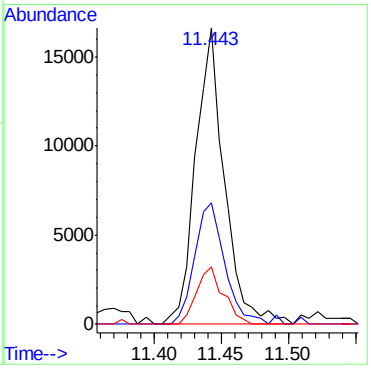


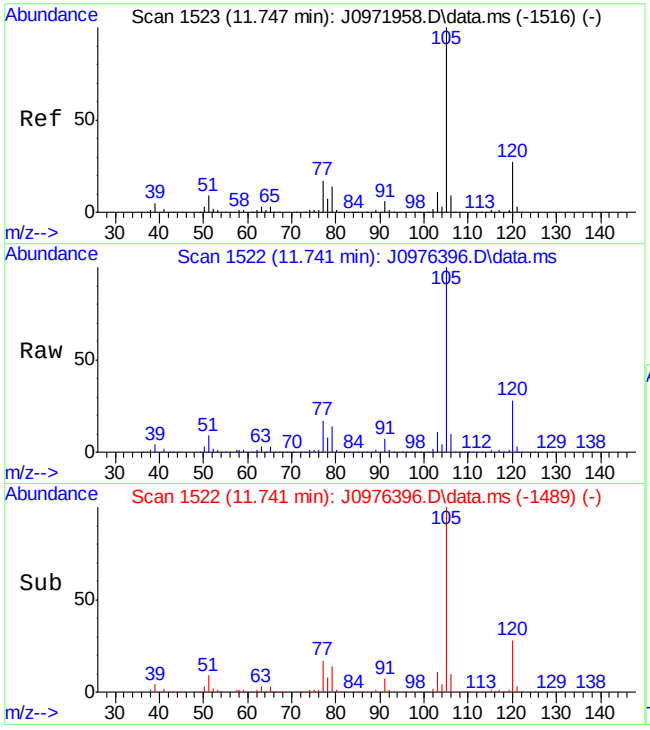


#74
o-Xylene
Concen: 1.00 ug/L
RT: 11.443 min Scan# 1473
Delta R.T. 0.007 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 91 Resp: 24767

Ion	Ratio	Lower	Upper
91	100		
106	41.1	16.9	76.9
105	19.3	0.0	49.1

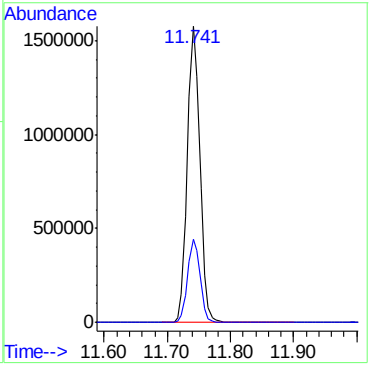


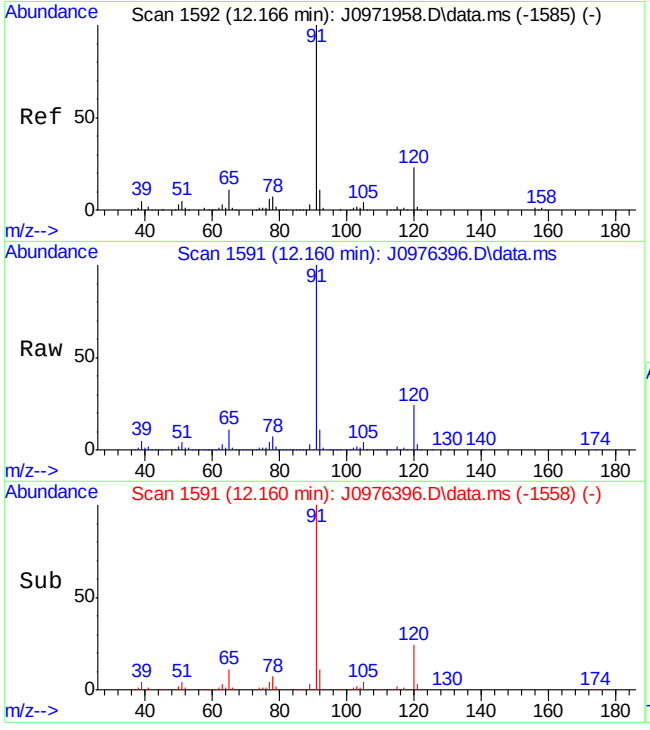


#77
Isopropylbenzene
Concen: 75.97 ug/L
RT: 11.741 min Scan# 1522
Delta R.T. -0.000 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion:105 Resp: 2167583

Ion	Ratio	Lower	Upper
105	100		
120	28.2	0.0	56.4

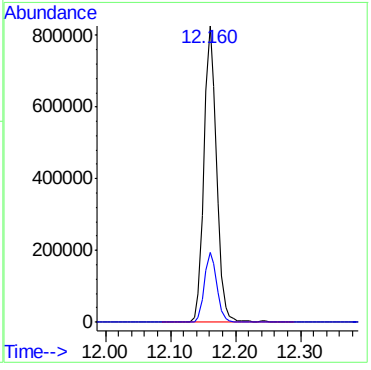




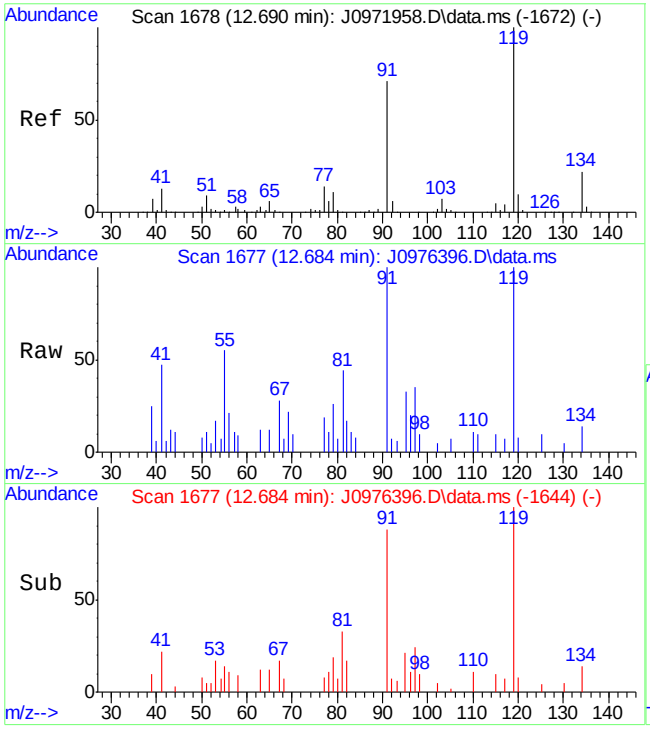
#81
n-Propylbenzene
Concen: 33.49 ug/L
RT: 12.160 min Scan# 1591
Delta R.T. 0.000 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 91 Resp: 1122755

Ion	Ratio	Lower	Upper
91	100		
120	23.7	0.0	53.1



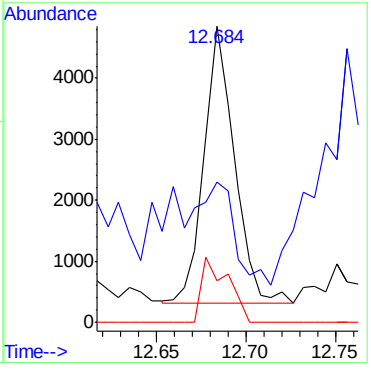
SGS ACCUTEST FA33788

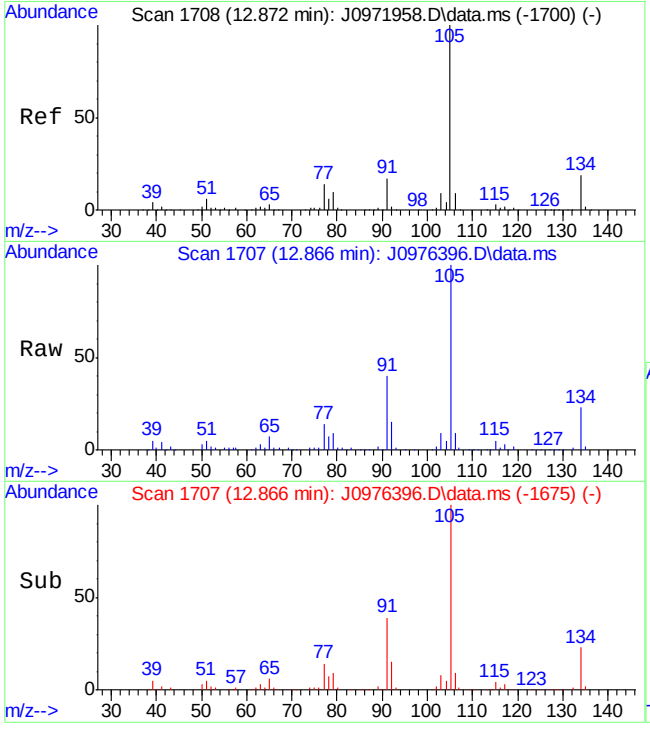


#91
tert-Butylbenzene
Concen: 0.36 ug/L
RT: 12.684 min Scan# 1677
Delta R.T. -0.000 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 91 Resp: 5362

Ion	Ratio	Lower	Upper
91	100		
41	17.7	0.0	46.2
134	15.2	2.3	62.3

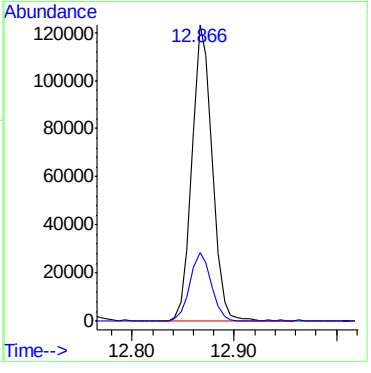


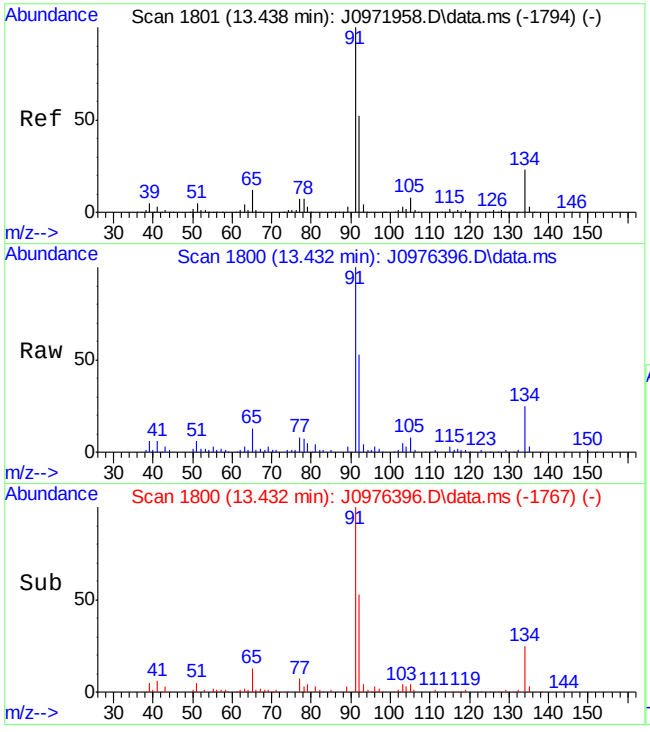


#94
sec-Butylbenzene
Concen: 5.48 ug/L
RT: 12.866 min Scan# 1707
Delta R.T. -0.006 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion:105 Resp: 167746

Ion	Ratio	Lower	Upper
105	100		
134	23.3	0.0	48.8

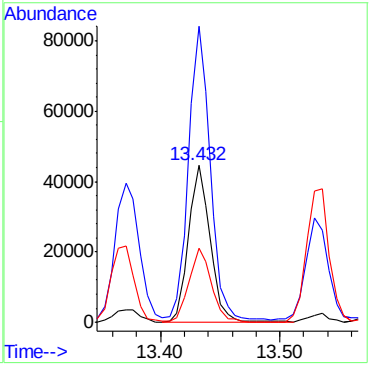


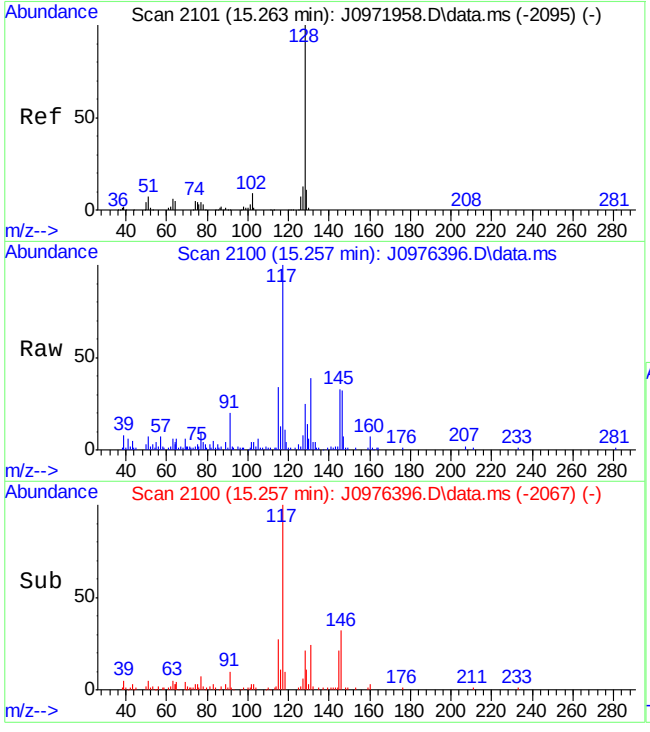


#98
n-Butylbenzene
Concen: 3.81 ug/L
RT: 13.432 min Scan# 1800
Delta R.T. -0.000 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 92 Resp: 56504

Ion	Ratio	Lower	Upper
92	100		
91	185.6	160.5	220.5
134	46.3	12.7	72.7

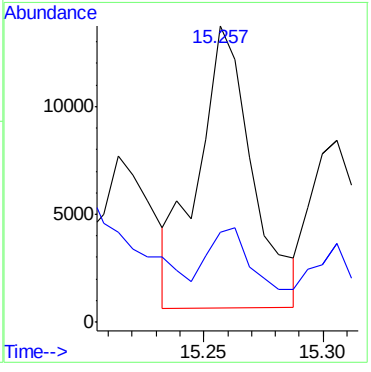


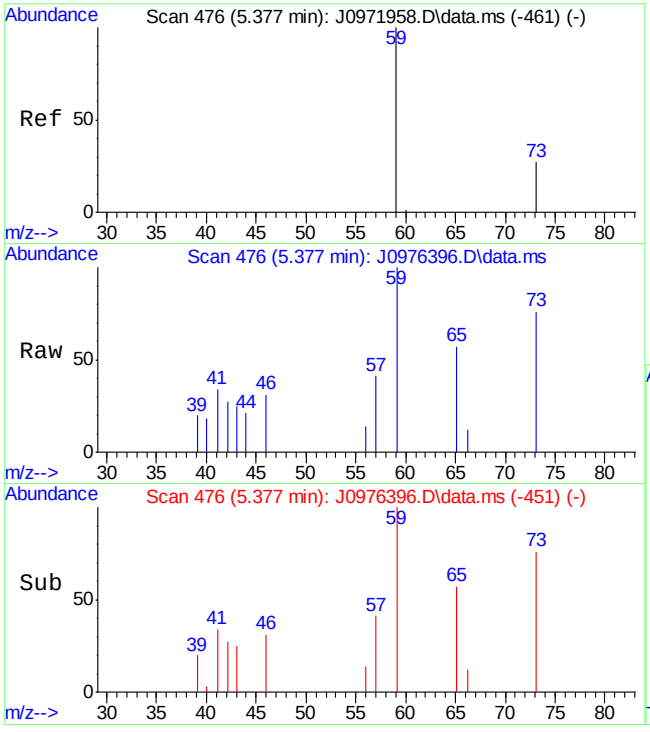


#104
Naphthalene
Concen: 1.25 ug/L
RT: 15.257 min Scan# 2100
Delta R.T. -0.000 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion:128 Resp: 20673

Ion	Ratio	Lower	Upper
128	100		
127	24.8	0.0	42.6

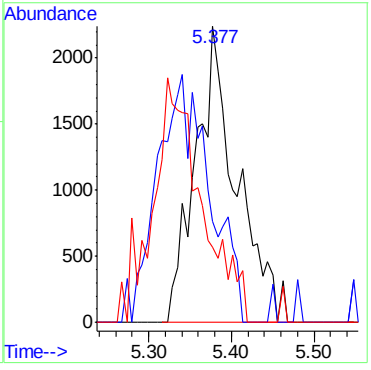


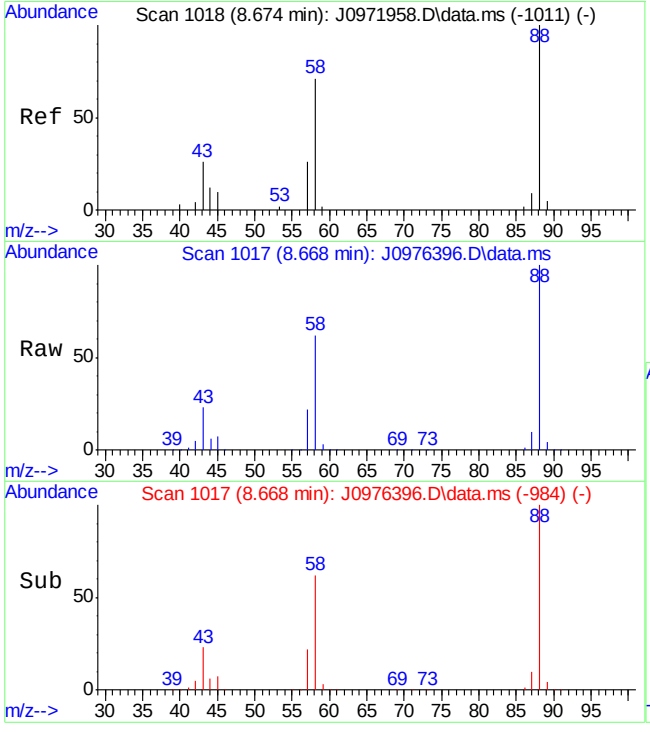


#109
Tert Butyl Alcohol
Concen: 21.27 ug/L
RT: 5.377 min Scan# 476
Delta R.T. 0.000 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 59 Resp: 7749

Ion	Ratio	Lower	Upper
59	100		
41	34.1	27.9	67.9
43	25.4	13.1	53.1

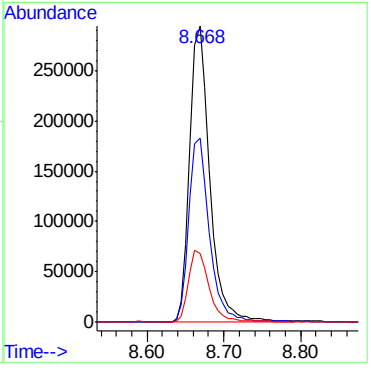




#112
1,4-Dioxane
Concen: 17915.42 ug/L
RT: 8.668 min Scan# 1017
Delta R.T. 0.000 min
Lab File: J0976396.D
Acq: 10 May 2016 2:13 pm

Tgt Ion: 88 Resp: 534679

Ion	Ratio	Lower	Upper
88	100		
58	62.0	29.4	89.4
43	23.3	0.0	57.3



7.1.5

7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976397.D
Acq On : 10 May 2016 2:36 pm
Operator : darshnap
Sample : fa33788-5 MA Inst : MSVOA6
Misc : MS33848,VJ5292,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 11 16:15:15 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

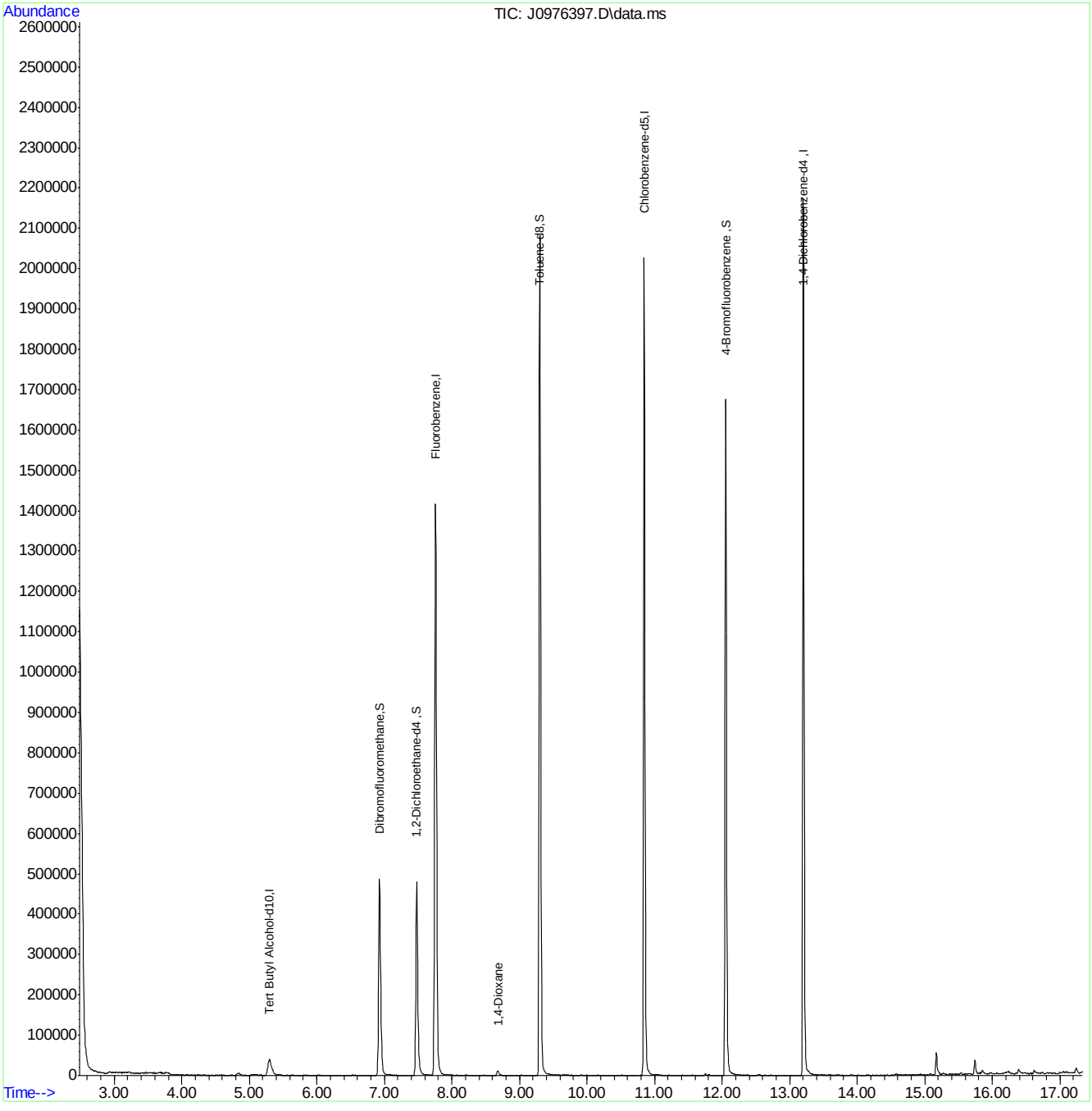
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1258683	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	957942	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	512424	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	76388	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	321618	50.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.72%			
46) 1,2-Dichloroethane-d4	7.476	65	383683	49.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.34%			
57) Toluene-d8	9.301	98	1262601	50.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.20%			
79) 4-Bromofluorobenzene	12.057	95	487727	52.62	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.24%			
Target Compounds						Qvalue
112) 1,4-Dioxane	8.681	88	9289	306.24	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

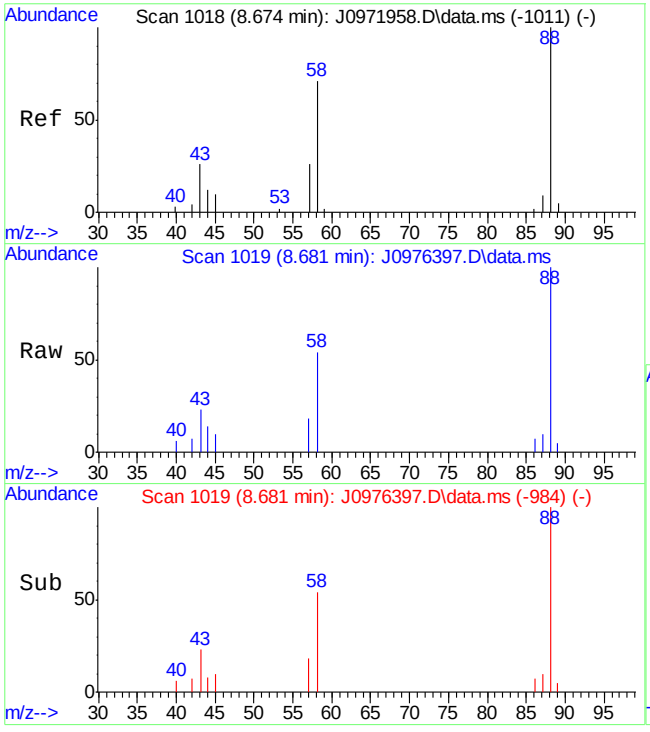
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976397.D
Acq On : 10 May 2016 2:36 pm
Operator : darshnap
Sample : fa33788-5 MA Inst : MSVOA6
Misc : MS33848,VJ5292,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 11 16:15:15 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



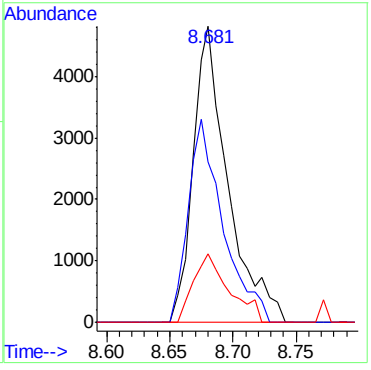
SGS ACCUTEST FA33788



#112
1,4-Dioxane
Concen: 306.24 ug/L
RT: 8.681 min Scan# 1019
Delta R.T. 0.013 min
Lab File: J0976397.D
Acq: 10 May 2016 2:36 pm

Tgt Ion: 88 Resp: 9289

Ion	Ratio	Lower	Upper
88	100		
58	54.2	29.4	89.4
43	23.3	0.0	57.3



7.1.6

7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976398.D
Acq On : 10 May 2016 2:59 pm
Operator : darshnap
Sample : fa33788-6 MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 11 12:59:47 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1213611	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	920300	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	499012	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	75053	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	311733	50.62	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.24%			
46) 1,2-Dichloroethane-d4	7.476	65	373967	50.21	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.42%			
57) Toluene-d8	9.301	98	1212409	50.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.14%			
79) 4-Bromofluorobenzene	12.051	95	461351	51.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.22%			

Target Compounds Qvalue

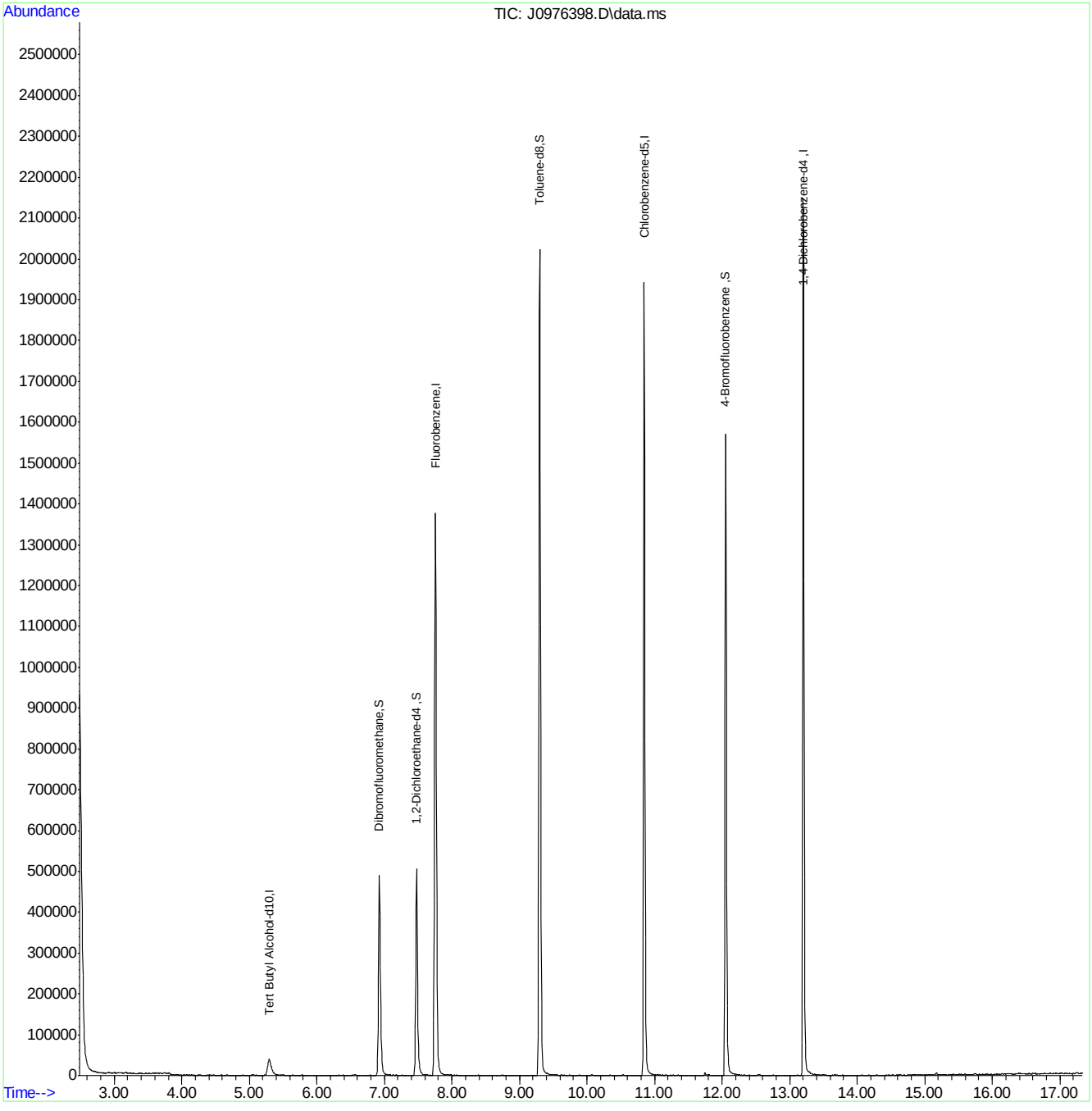
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976398.D
Acq On : 10 May 2016 2:59 pm
Operator : darshnap
Sample : fa33788-6 MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 11 12:59:47 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115591.D
Acq On : 12 May 2016 5:07 pm
Operator : ericp
Sample : FA33788-7 MA Inst : MSVOA5
Misc : ms33850,vc4595,5.92,,,5,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 13 07:32:07 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

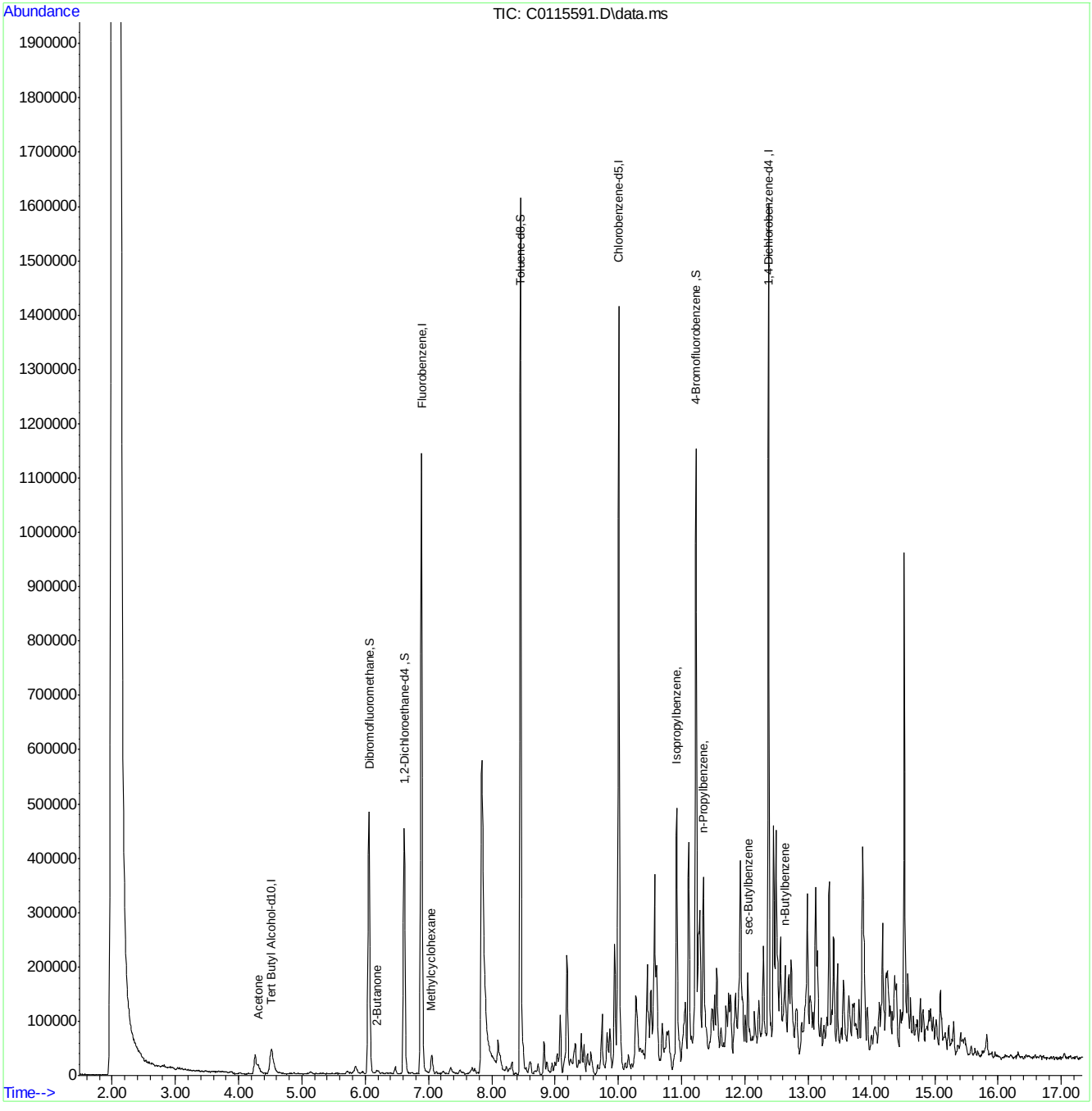
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.889	96	939699	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	614364	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	321701	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.517	65	85564	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.062	113	305206	55.53	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 111.06%			
44) 1,2-Dichloroethane-d4	6.616	65	336743	54.00	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 108.00%			
55) Toluene-d8	8.453	98	852126	47.78	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 95.56%			
77) 4-Bromofluorobenzene	11.227	174	203867	48.71	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.42%			
Target Compounds						Qvalue
16) Acetone	4.310	43	32019	24.87	ug/Kg	85
38) 2-Butanone	6.184	43	8257	4.95	ug/Kg	94
47) Methylcyclohexane	7.048	83	11975	1.16	ug/Kg	91
75) Isopropylbenzene	10.923	105	223946	8.89	ug/Kg	98
79) n-Propylbenzene	11.343	91	103730	3.32	ug/Kg	94
91) sec-Butylbenzene	12.048	105	46763	1.57	ug/Kg	85
95) n-Butylbenzene	12.626	92	17306	1.26	ug/Kg	89
109) 1,4-Dioxane	7.845	88	710563	Below Cal		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

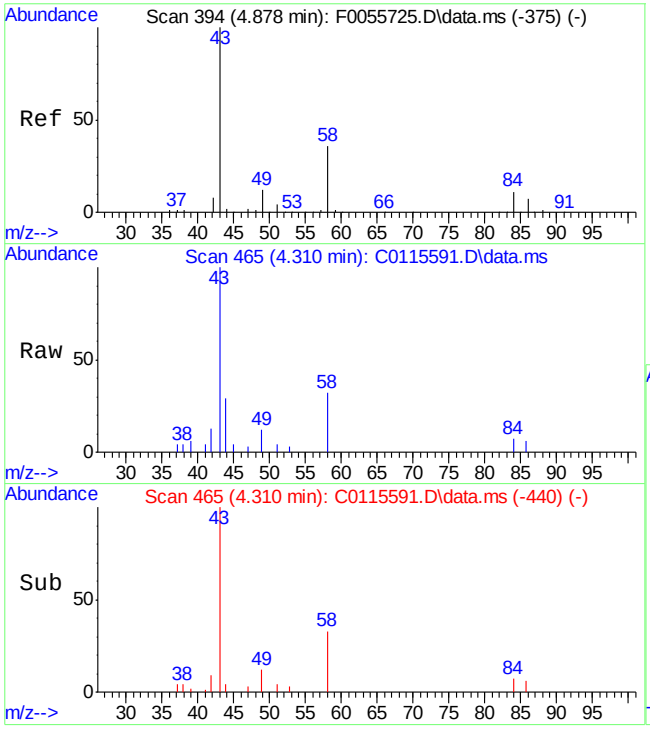
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115591.D
Acq On : 12 May 2016 5:07 pm
Operator : ericp
Sample : FA33788-7 MA Inst : MSVOA5
Misc : ms33850,vc4595,5.92,,,5,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 13 07:32:07 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



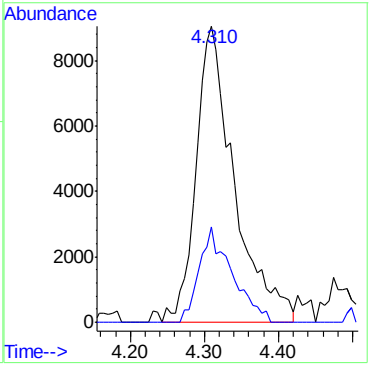
SGS ACCUTEST FA33788

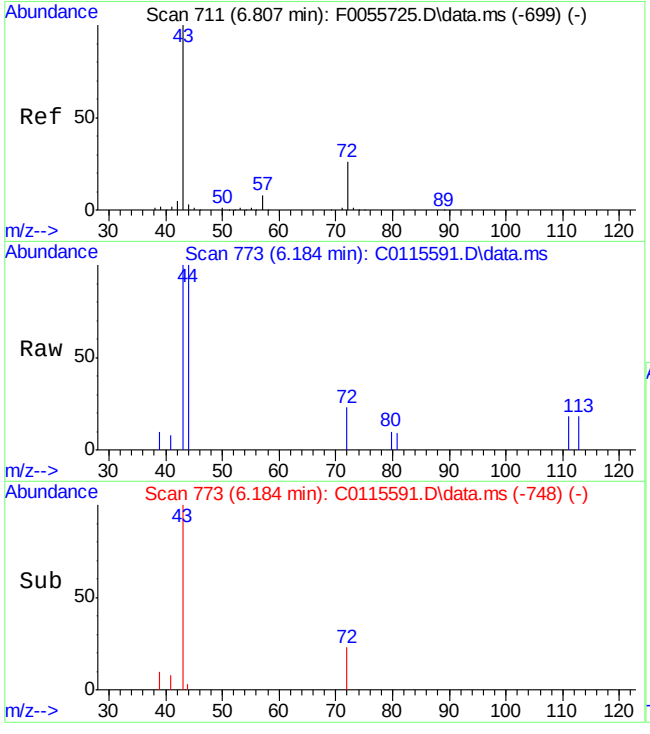


#16
Acetone
Concen: 24.87 ug/Kg
RT: 4.310 min Scan# 465
Delta R.T. -0.000 min
Lab File: C0115591.D
Acq: 12 May 2016 5:07 pm

Tgt Ion: 43 Resp: 32019

Ion	Ratio	Lower	Upper
43	100		
58	32.2	4.8	44.8

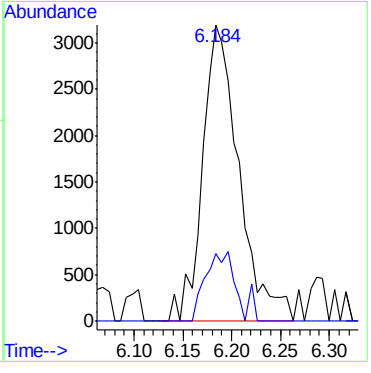


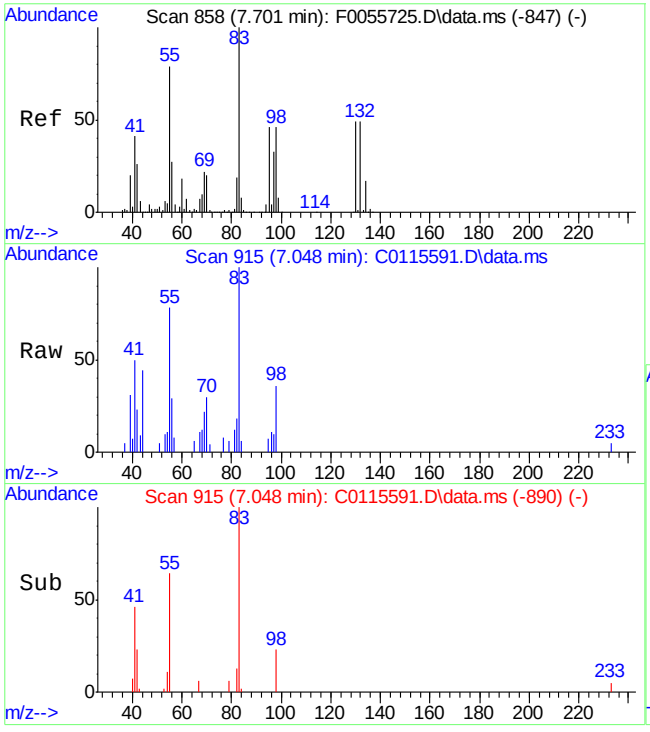


#38
2-Butanone
Concen: 4.95 ug/Kg
RT: 6.184 min Scan# 773
Delta R.T. -0.000 min
Lab File: C0115591.D
Acq: 12 May 2016 5:07 pm

Tgt Ion: 43 Resp: 8257

Ion	Ratio	Lower	Upper
43	100		
72	22.8	0.0	55.9

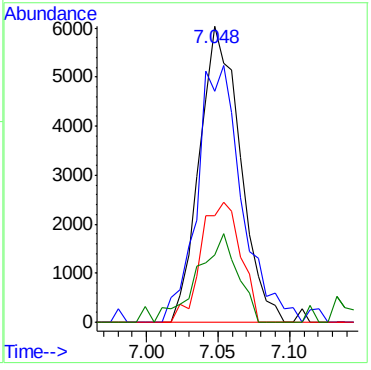


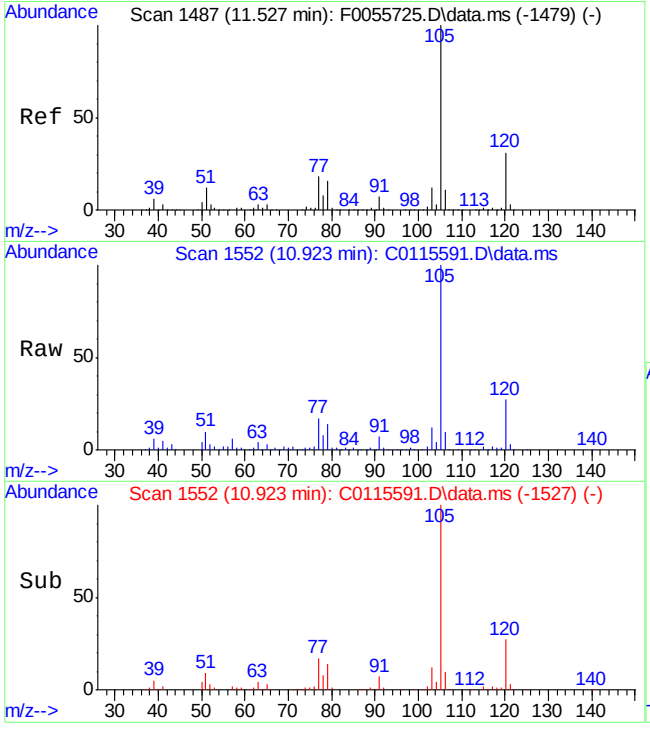


#47
Methylcyclohexane
Concen: 1.16 ug/Kg
RT: 7.048 min Scan# 915
Delta R.T. -0.000 min
Lab File: C0115591.D
Acq: 12 May 2016 5:07 pm

Tgt Ion: 83 Resp: 11975

Ion	Ratio	Lower	Upper
83	100		
55	77.9	44.4	104.4
98	35.9	18.8	78.8
42	22.7	0.0	50.8

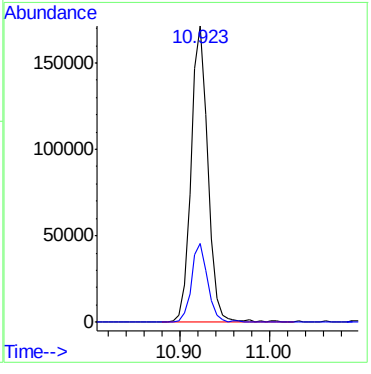


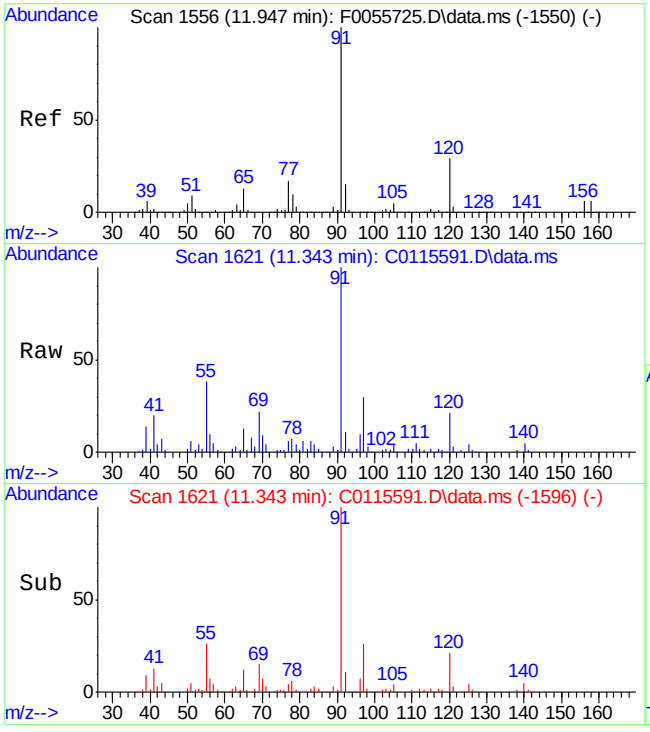


#75
Isopropylbenzene
Concen: 8.89 ug/Kg
RT: 10.923 min Scan# 1552
Delta R.T. -0.000 min
Lab File: C0115591.D
Acq: 12 May 2016 5:07 pm

Tgt Ion:105 Resp: 223946

Ion	Ratio	Lower	Upper
105	100		
120	26.6	0.0	57.8

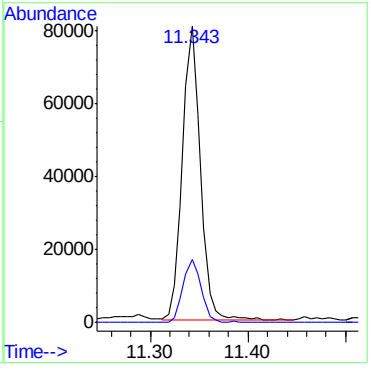


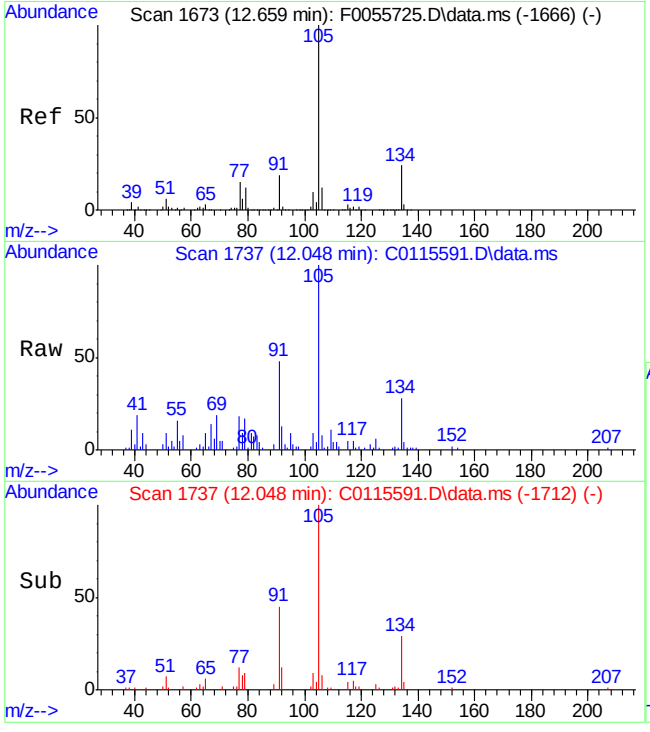


#79
n-Propylbenzene
Concen: 3.32 ug/Kg
RT: 11.343 min Scan# 1621
Delta R.T. -0.000 min
Lab File: C0115591.D
Acq: 12 May 2016 5:07 pm

Tgt Ion: 91 Resp: 103730

Ion	Ratio	Lower	Upper
91	100		
120	21.3	0.0	54.5

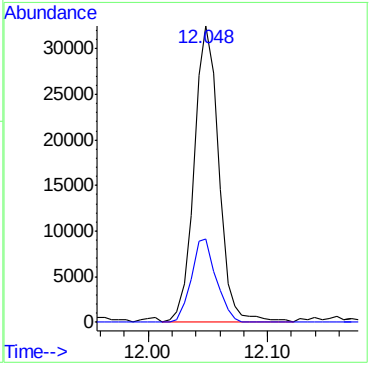


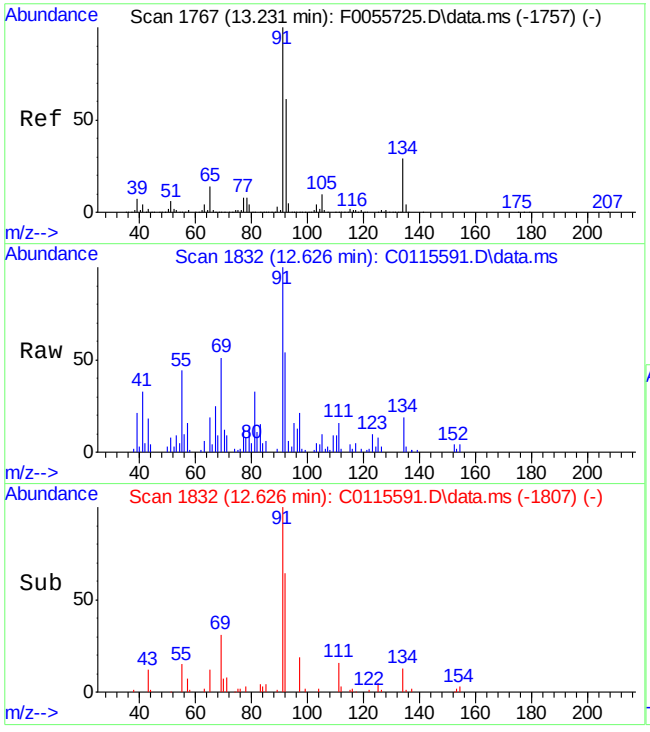


#91
sec-Butylbenzene
Concen: 1.57 ug/Kg
RT: 12.048 min Scan# 1737
Delta R.T. -0.000 min
Lab File: C0115591.D
Acq: 12 May 2016 5:07 pm

Tgt Ion:105 Resp: 46763

Ion	Ratio	Lower	Upper
105	100		
134	28.2	0.0	51.2

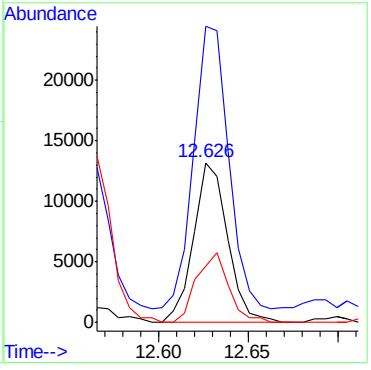


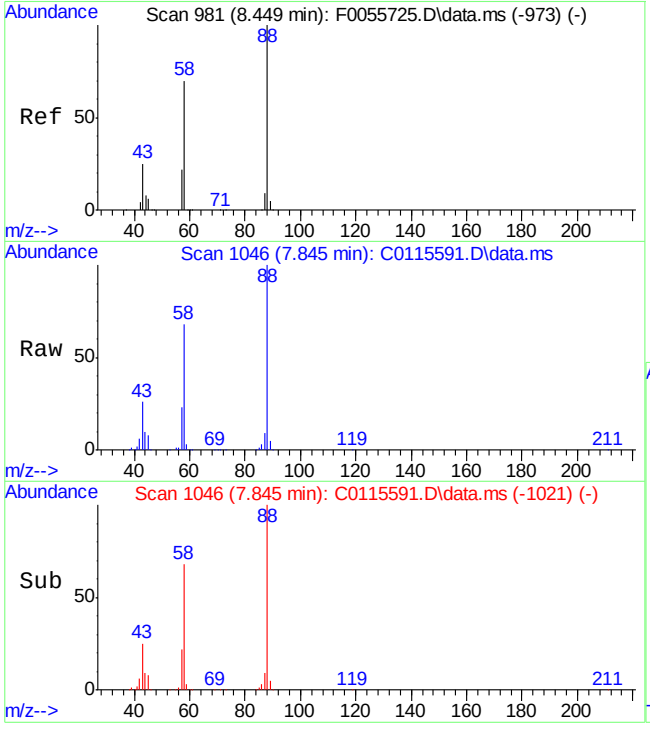


#95
n-Butylbenzene
Concen: 1.26 ug/Kg
RT: 12.626 min Scan# 1832
Delta R.T. -0.000 min
Lab File: C0115591.D
Acq: 12 May 2016 5:07 pm

Tgt Ion: 92 Resp: 17306

Ion	Ratio	Lower	Upper
92	100		
91	176.3	158.3	218.3
134	35.3	18.7	78.7

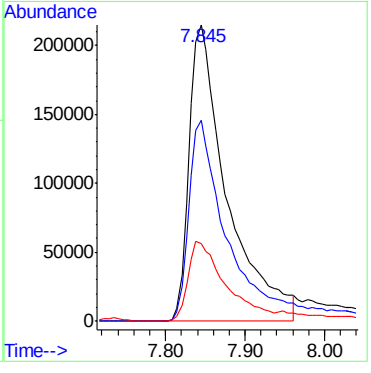




#109
1,4-Dioxane
Concen: Below Cal
RT: 7.845 min Scan# 1046
Delta R.T. -0.000 min
Lab File: C0115591.D
Acq: 12 May 2016 5:07 pm

Tgt Ion: 88 Resp: 710563

Ion	Ratio	Lower	Upper
88	100		
58	67.8	30.5	90.5
43	26.1	0.0	56.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115592.D
Acq On : 12 May 2016 5:33 pm
Operator : ericp
Sample : FA33788-8 MA Inst : MSVOA5
Misc : ms33850,vc4595,5.61,,,5,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 13 07:34:03 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

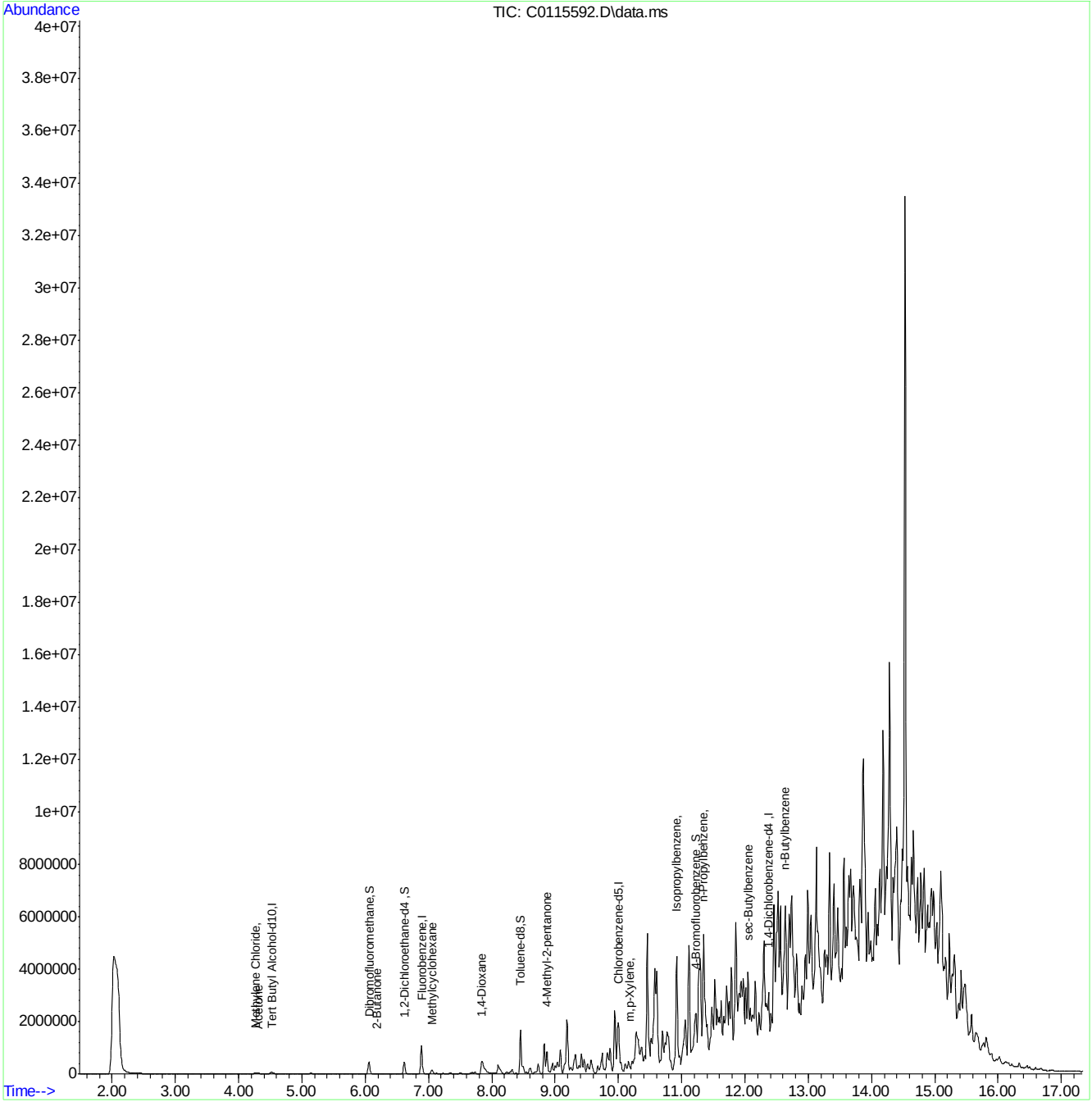
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.890	96	908608	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.011	117	599097	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.377	152	357538	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.523	65	122047	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.062	113	301188	56.68	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.36%			
44) 1,2-Dichloroethane-d4	6.616	65	333636	55.33	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 110.66%			
55) Toluene-d8	8.453	98	920448	52.92	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 105.84%			
77) 4-Bromofluorobenzene	11.227	174	212910	45.77	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 91.54%			
Target Compounds						Qvalue
15) Methylene Chloride	4.262	49	34625	4.72	ug/Kg	92
16) Acetone	4.316	43	39398	31.68	ug/Kg	87
38) 2-Butanone	6.190	43	8944	5.55	ug/Kg	88
47) Methylcyclohexane	7.054	83	57709	5.76	ug/Kg	92
58) 4-Methyl-2-pentanone	8.867	43	297510	85.68	ug/Kg	94
71) m,p-Xylene	10.175	91	20041	1.29	ug/Kg	84
75) Isopropylbenzene	10.923	105	2063802	91.82	ug/Kg	98
79) n-Propylbenzene	11.343	91	1355279	42.10	ug/Kg	99
91) sec-Butylbenzene	12.055	105	657455	20.37	ug/Kg	91
95) n-Butylbenzene	12.633	92	315688	21.17	ug/Kg	97
109) 1,4-Dioxane	7.845	88	560828	13715.13	ug/Kg	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

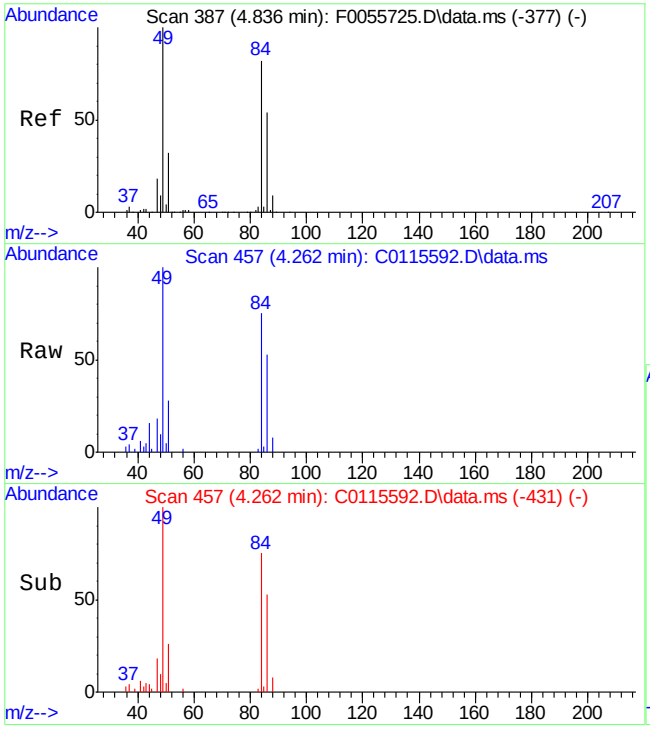
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115592.D
Acq On : 12 May 2016 5:33 pm
Operator : ericp
Sample : FA33788-8 MA Inst : MSVOA5
Misc : ms33850,vc4595,5.61,,,5,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: May 13 07:34:03 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



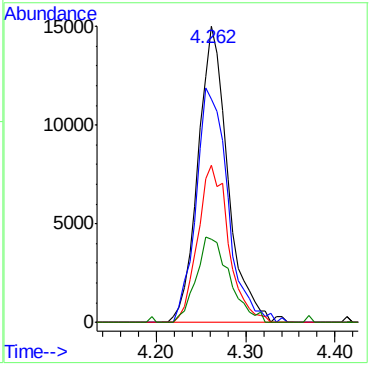
051216APP9-C-Soil.m Fri May 13 07:52:15 2016 Page: 2

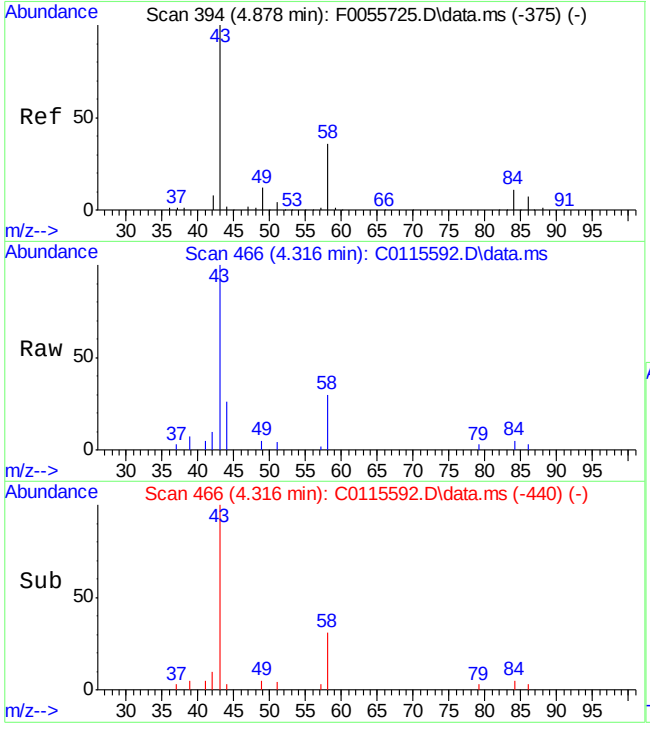


#15
Methylene Chloride
Concen: 4.72 ug/Kg
RT: 4.262 min Scan# 457
Delta R.T. 0.006 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion: 49 Resp: 34625

Ion	Ratio	Lower	Upper
49	100		
84	75.4	56.3	116.3
86	53.2	25.6	85.6
51	28.0	1.6	61.6

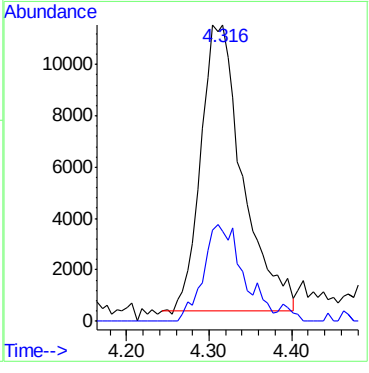


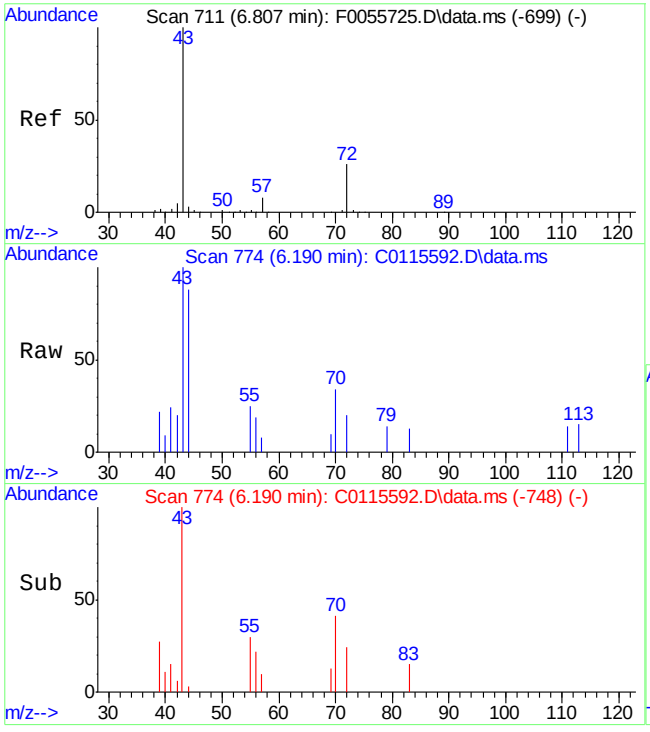


#16
Acetone
Concen: 31.68 ug/Kg
RT: 4.316 min Scan# 466
Delta R.T. 0.006 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion: 43 Resp: 39398

Ion	Ratio	Lower	Upper
43	100		
58	31.4	4.8	44.8

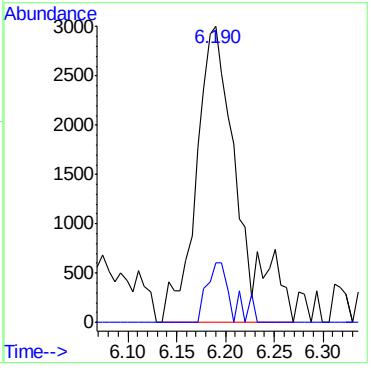


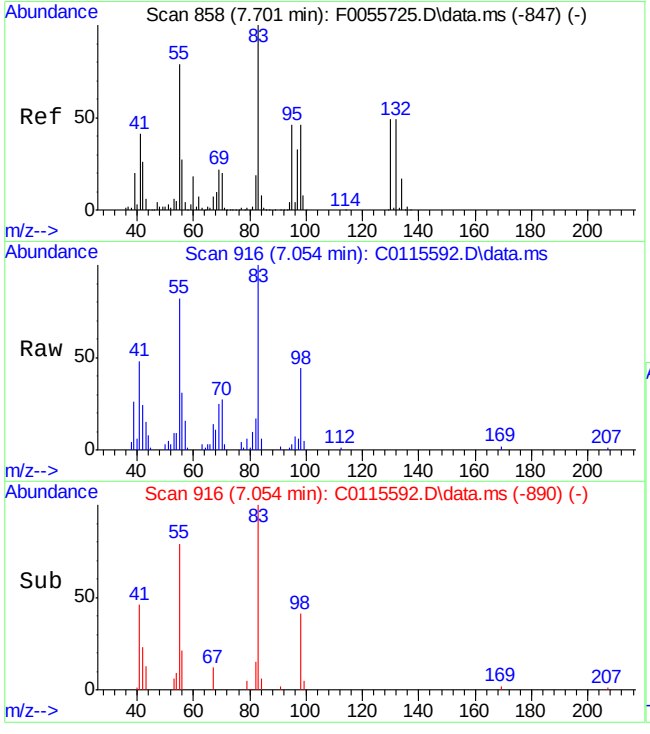


#38
2-Butanone
Concen: 5.55 ug/Kg
RT: 6.190 min Scan# 774
Delta R.T. 0.006 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion: 43 Resp: 8944

Ion	Ratio	Lower	Upper
43	100		
72	20.0	0.0	55.9

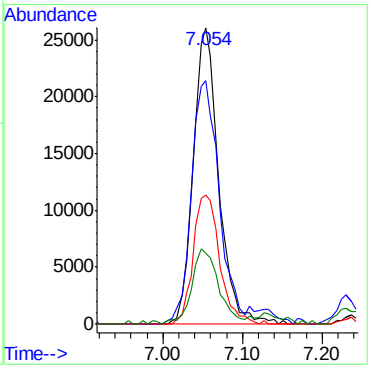


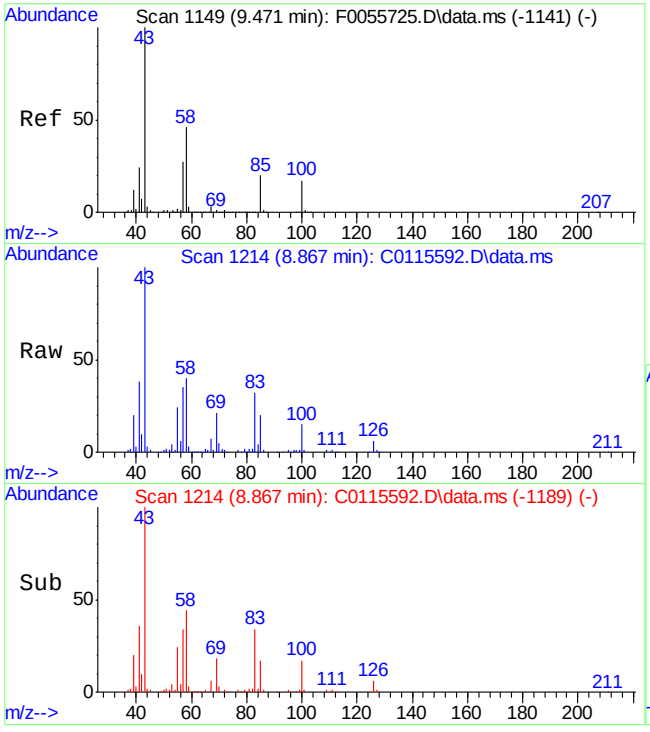


#47
Methylcyclohexane
Concen: 5.76 ug/Kg
RT: 7.054 min Scan# 916
Delta R.T. 0.006 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion: 83 Resp: 57709

Ion	Ratio	Lower	Upper
83	100		
55	82.1	44.4	104.4
98	43.7	18.8	78.8
42	23.9	0.0	50.8

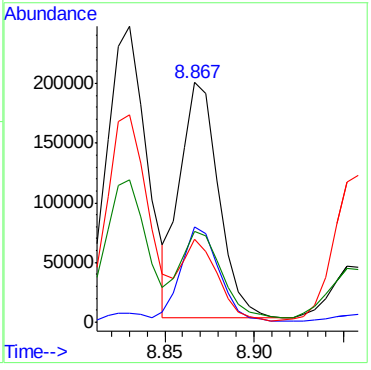


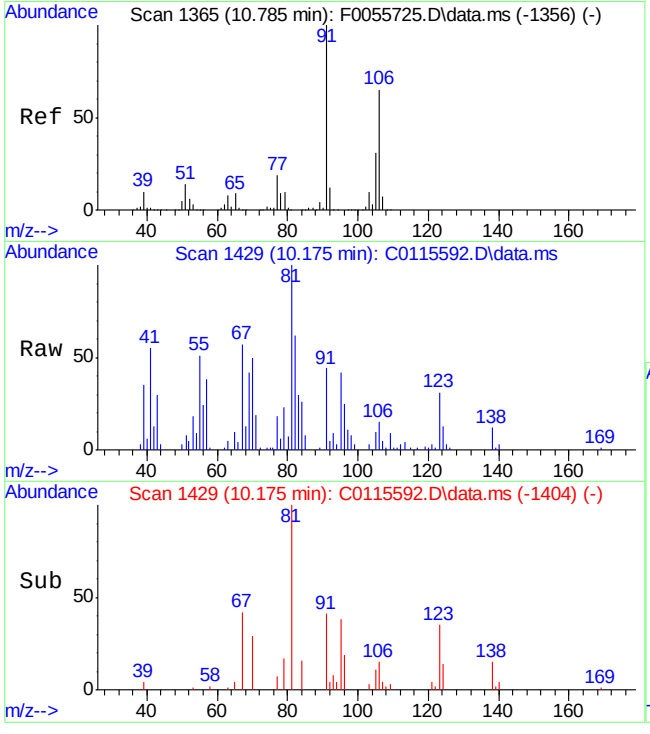


#58
4-Methyl-2-pentanone
Concen: 85.68 ug/Kg
RT: 8.867 min Scan# 1214
Delta R.T. 0.000 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion: 43 Resp: 297510

Ion	Ratio	Lower	Upper
43	100		
58	40.2	13.7	73.7
57	34.2	2.9	62.9
41	36.5	1.4	61.4

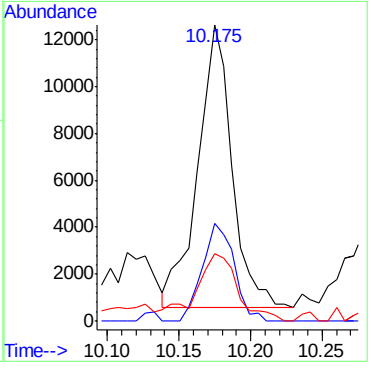


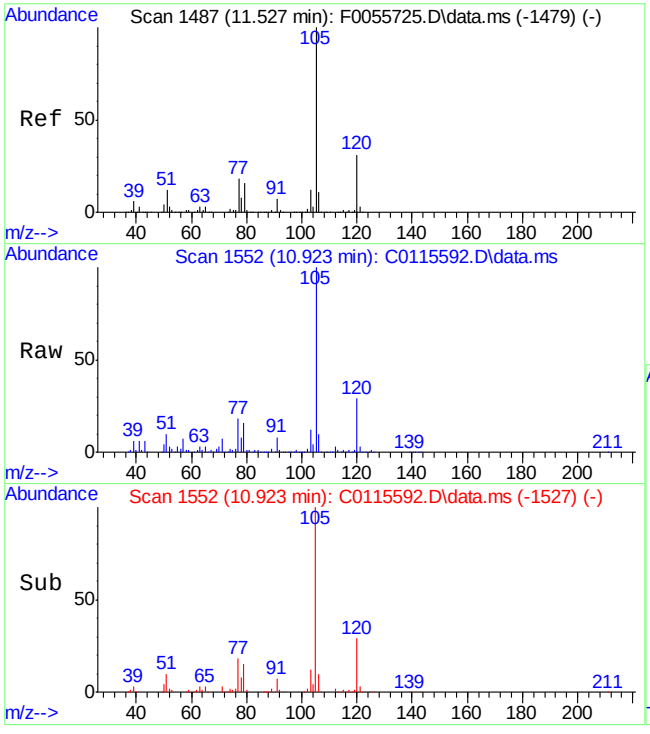


#71
m,p-Xylene
Concen: 1.29 ug/Kg
RT: 10.175 min Scan# 1429
Delta R.T. 0.000 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion: 91 Resp: 20041

Ion	Ratio	Lower	Upper
91	100		
106	34.6	19.3	79.3
105	23.8	0.0	52.4

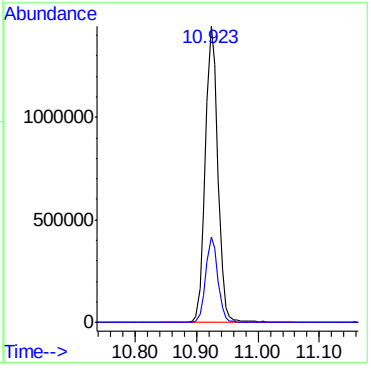


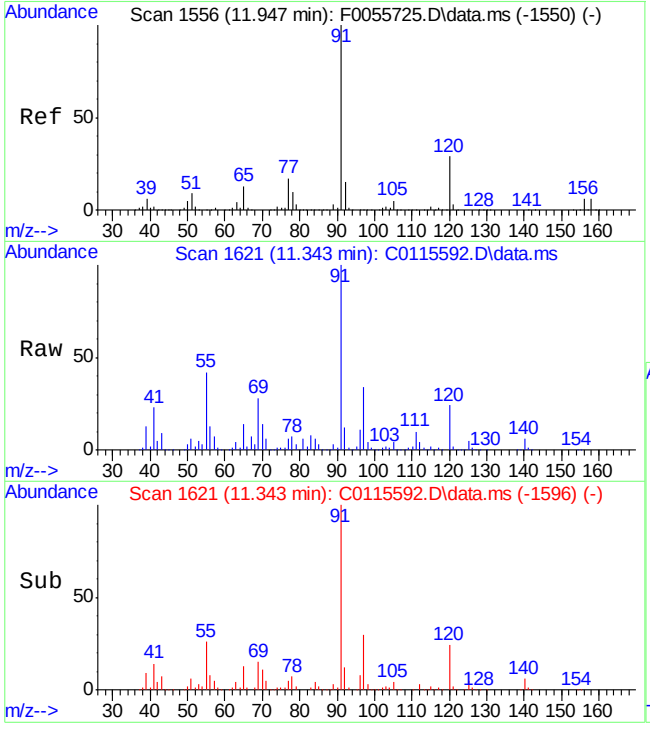


#75
Isopropylbenzene
Concen: 91.82 ug/Kg
RT: 10.923 min Scan# 1552
Delta R.T. 0.000 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion:105 Resp: 2063802

Ion	Ratio	Lower	Upper
105	100		
120	28.8	0.0	57.8

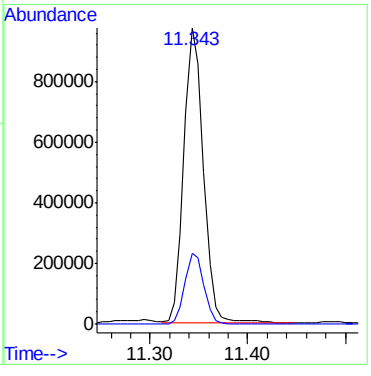


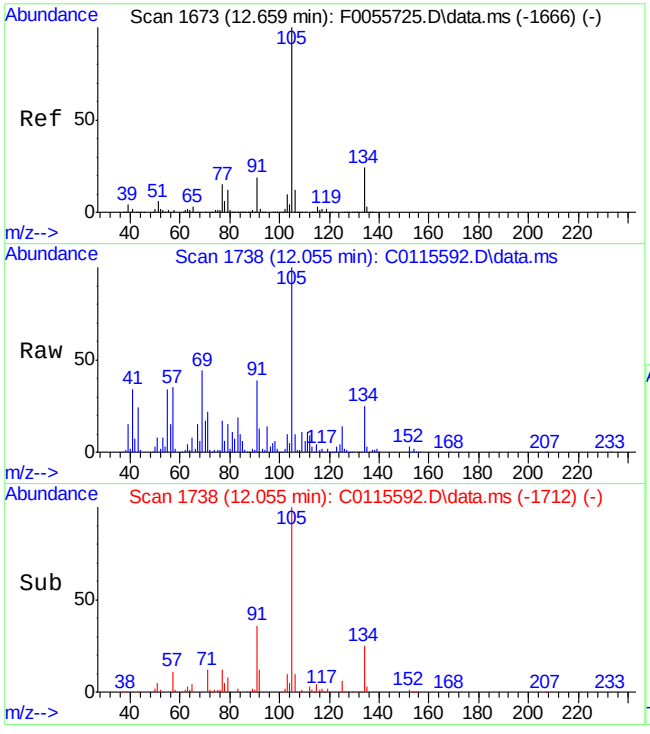


#79
n-Propylbenzene
Concen: 42.10 ug/Kg
RT: 11.343 min Scan# 1621
Delta R.T. 0.000 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion: 91 Resp: 1355279

Ion	Ratio	Lower	Upper
91	100		
120	23.9	0.0	54.5

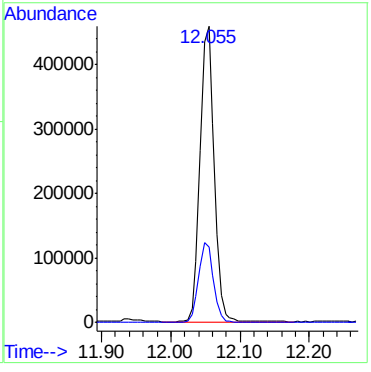


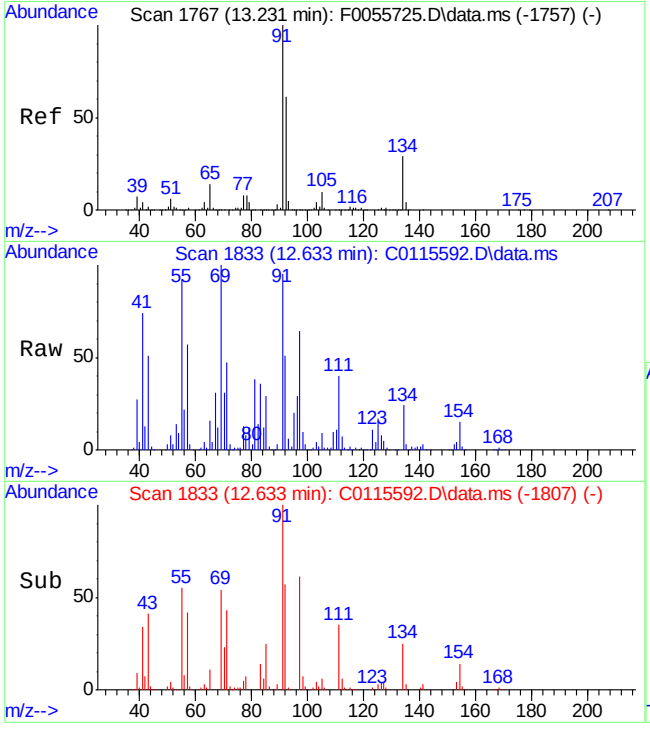


#91
sec-Butylbenzene
Concen: 20.37 ug/Kg
RT: 12.055 min Scan# 1738
Delta R.T. 0.006 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion:105 Resp: 657455

Ion	Ratio	Lower	Upper
105	100		
134	25.3	0.0	51.2

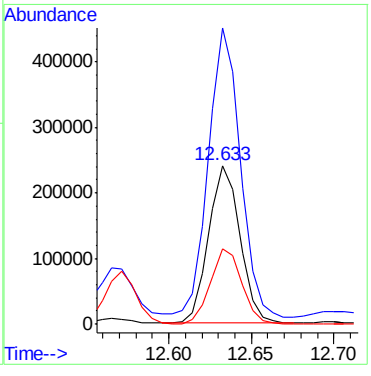


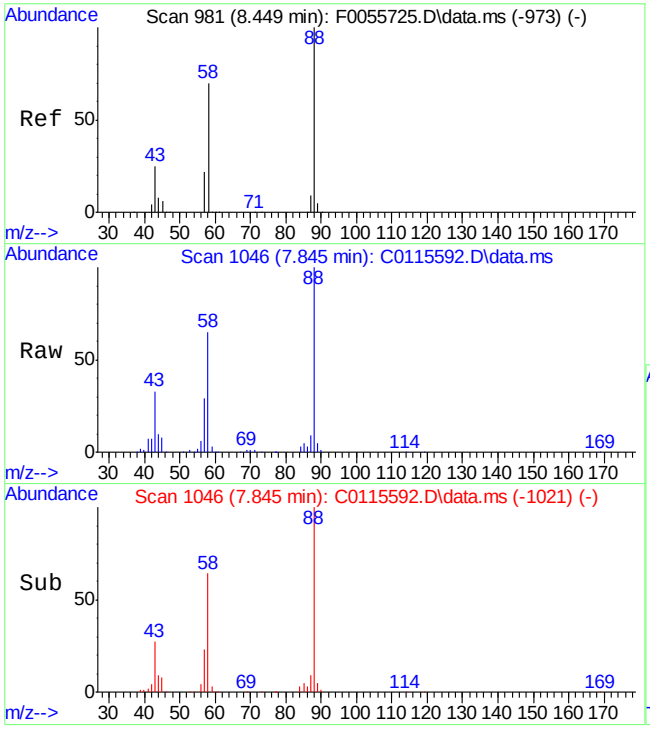


#95
n-Butylbenzene
Concen: 21.17 ug/Kg
RT: 12.633 min Scan# 1833
Delta R.T. 0.006 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion: 92 Resp: 315688

Ion	Ratio	Lower	Upper
92	100		
91	183.7	158.3	218.3
134	47.5	18.7	78.7

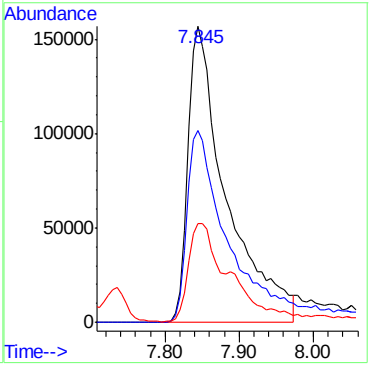




#109
1,4-Dioxane
Concen: 13715.13 ug/Kg
RT: 7.845 min Scan# 1046
Delta R.T. 0.000 min
Lab File: C0115592.D
Acq: 12 May 2016 5:33 pm

Tgt Ion: 88 Resp: 560828

Ion	Ratio	Lower	Upper
88	100		
58	64.6	30.5	90.5
43	33.3	0.0	56.2



7.1.9

7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115593.D
Acq On : 12 May 2016 5:58 pm
Operator : ericp
Sample : FA33788-8CF MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,,5,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 13 07:35:01 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	1392271	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	990547	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	563487	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.560	65	122025	250.00	ug/Kg	0.04
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	427966	52.56	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.12%			
44) 1,2-Dichloroethane-d4	6.616	65	445786	48.24	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 96.48%			
55) Toluene-d8	8.453	98	1290901	44.89	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 89.78%			
77) 4-Bromofluorobenzene	11.227	174	359263	49.00	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 98.00%			

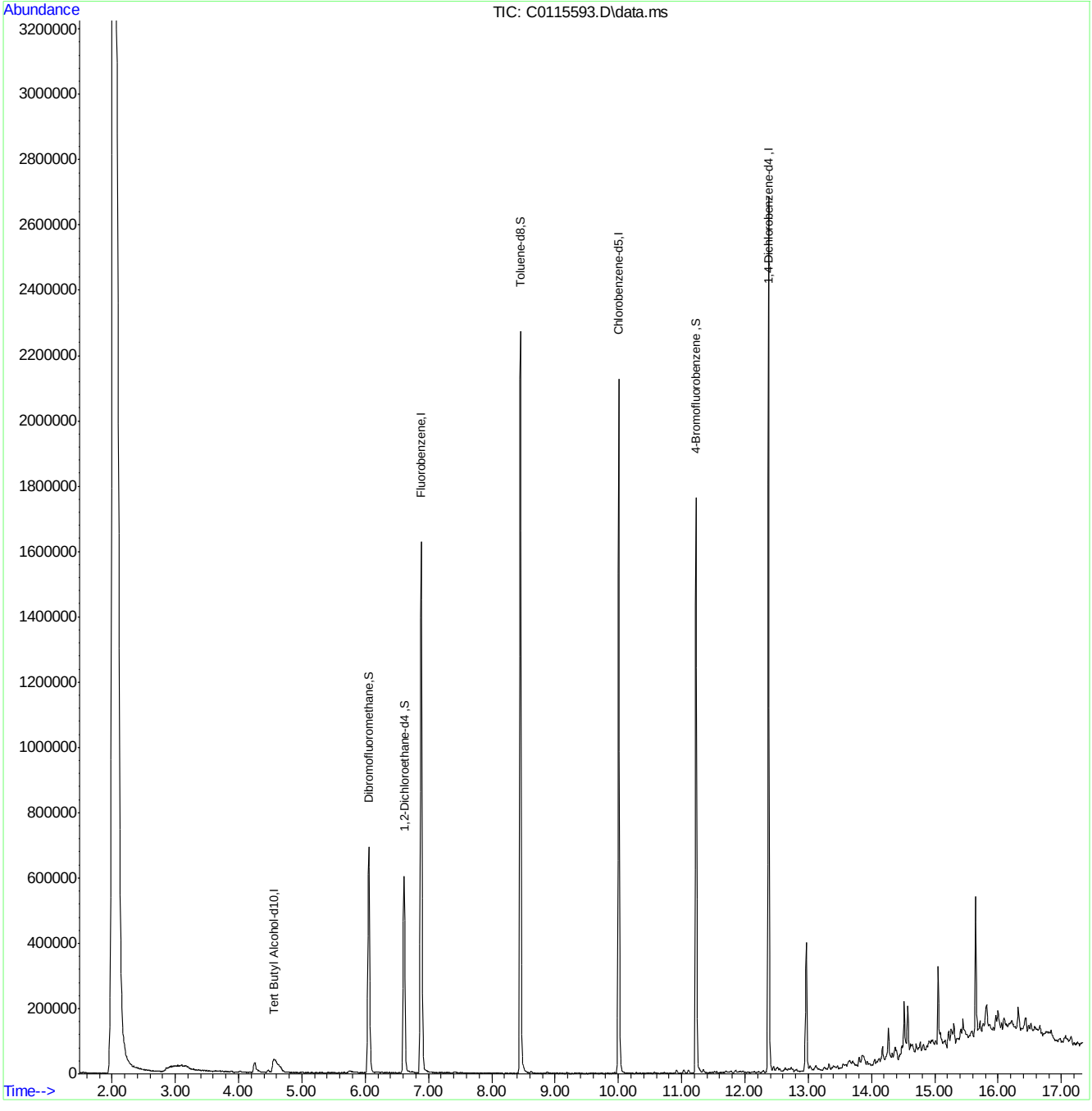
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115593.D
Acq On : 12 May 2016 5:58 pm
Operator : ericp
Sample : FA33788-8CF MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,,5,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: May 13 07:35:01 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976399.D
Acq On : 10 May 2016 3:22 pm
Operator : darshnap
Sample : fa33788-9 MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 11 13:00:07 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1191207	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	897286	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	489986	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	71314	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.929	113	308073	50.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.94%			
46) 1,2-Dichloroethane-d4	7.476	65	370331	50.66	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.32%			
57) Toluene-d8	9.301	98	1202867	50.95	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.90%			
79) 4-Bromofluorobenzene	12.051	95	452253	51.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.06%			

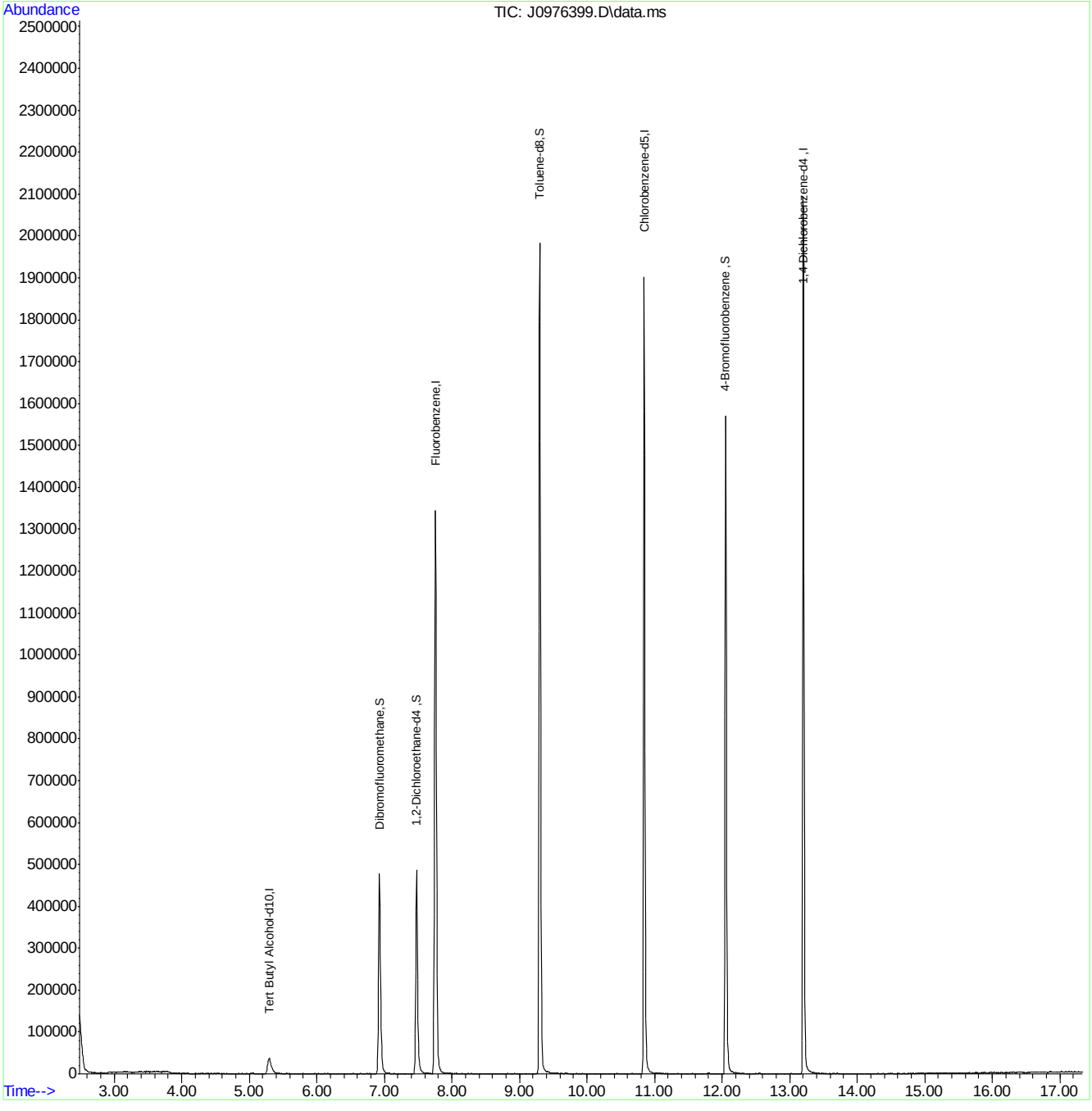
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976399.D
Acq On : 10 May 2016 3:22 pm
Operator : darshnap
Sample : fa33788-9 MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 11 13:00:07 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976385.D
Acq On : 10 May 2016 10:01 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 14:33:10 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1233863	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	926875	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	500446	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	78665	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	322721	51.55	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.10%			
46) 1,2-Dichloroethane-d4	7.482	65	373989	49.39	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.78%			
57) Toluene-d8	9.301	98	1237391	50.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.48%			
79) 4-Bromofluorobenzene	12.057	95	474011	52.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.74%			

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.2.1

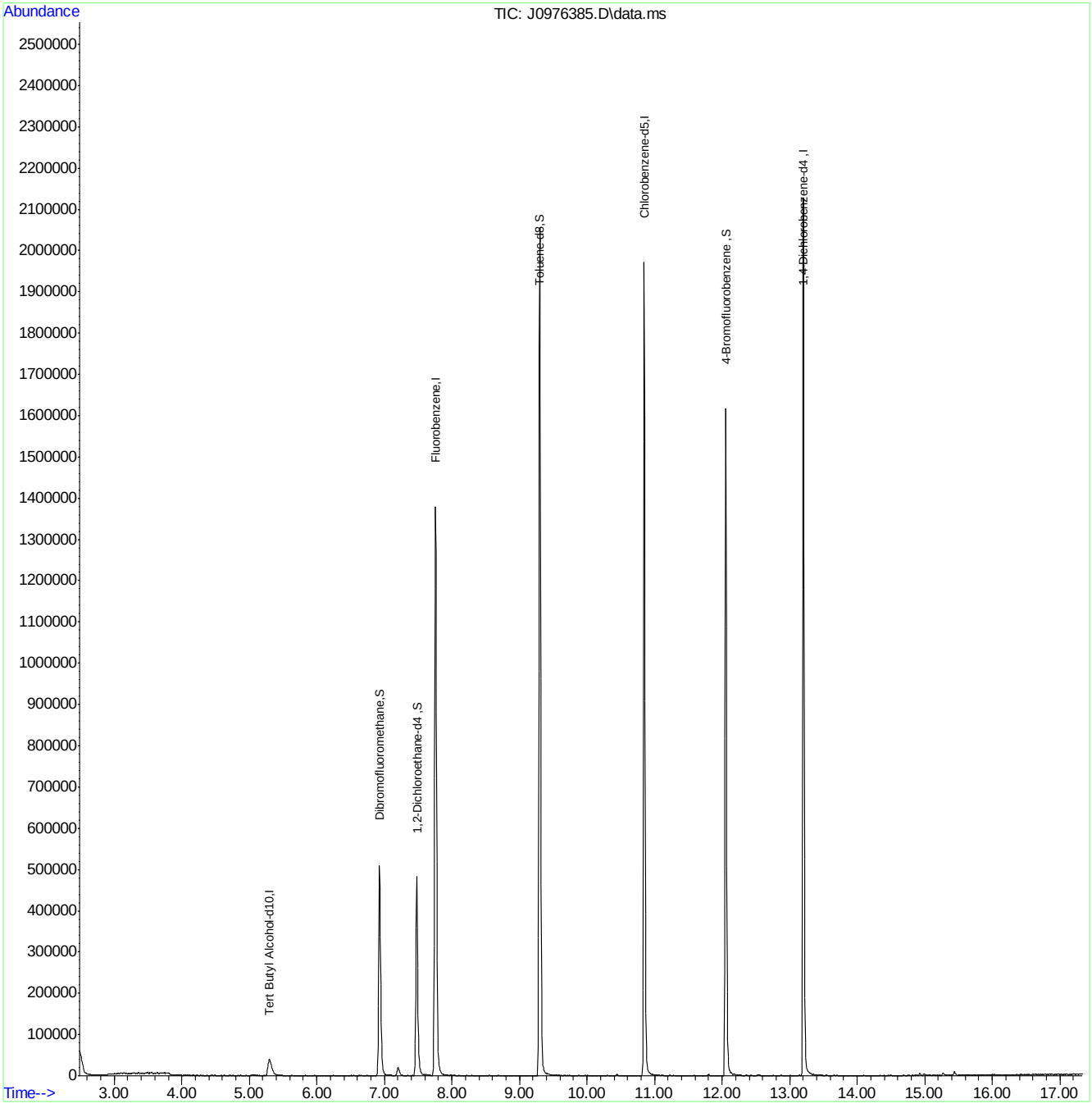
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976385.D
Acq On : 10 May 2016 10:01 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 14:33:10 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115589.D
Acq On : 12 May 2016 4:16 pm
Operator : ericp
Sample : MB MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 07:29:47 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

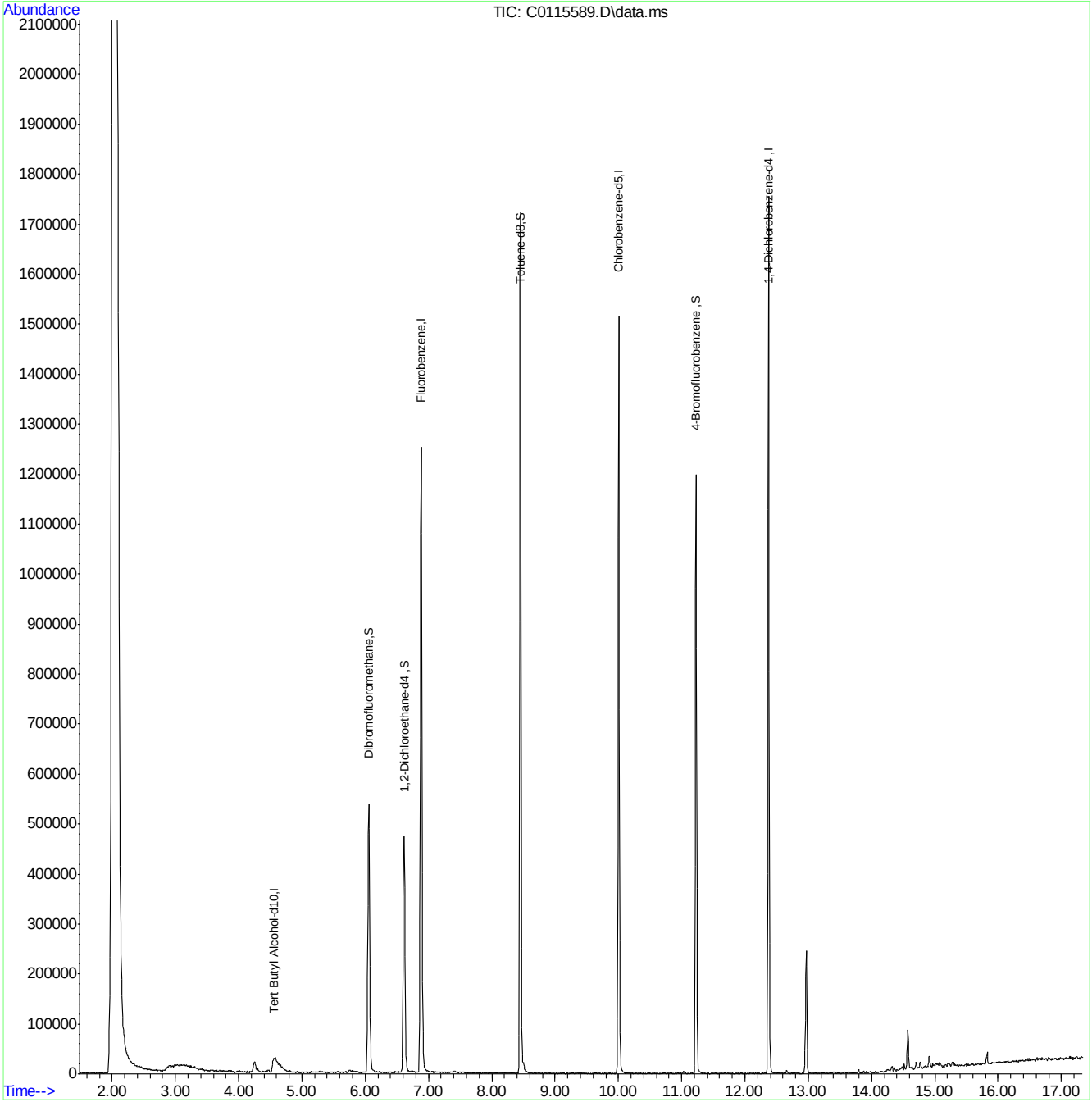
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.883	96	1014545	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	690448	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	355851	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.560	65	83457	250.00	ug/Kg	0.04
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	336163	56.65	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.30%			
44) 1,2-Dichloroethane-d4	6.616	65	367840	54.63	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 109.26%			
55) Toluene-d8	8.453	98	947012	47.24	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 94.48%			
77) 4-Bromofluorobenzene	11.227	174	226382	48.90	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.80%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115589.D
Acq On : 12 May 2016 4:16 pm
Operator : ericp
Sample : MB MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 13 07:29:47 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/11/16 15:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976384.D
Acq On : 10 May 2016 9:38 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 10:01:46 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1346321	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1060068	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	598319	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	86793	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	344478	50.42	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.84%			
46) 1,2-Dichloroethane-d4	7.476	65	410334	49.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.34%			
57) Toluene-d8	9.301	98	1366912	49.01	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.02%			
79) 4-Bromofluorobenzene	12.057	95	543069	50.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	193107	23.30	ug/L	97
3) Chloromethane	2.901	50	228308	25.74	ug/L	97
4) Vinyl Chloride	3.047	62	255559	28.13	ug/L	98
5) 1,3-Butadiene	3.035	54	6067	0.90	ug/L	82
6) Bromomethane	3.461	94	154677	23.30	ug/L	97
7) Chloroethane	3.619	64	117765	25.58	ug/L	98
8) Trichlorofluoromethane	3.850	101	331598m	29.42	ug/L	
9) Ethyl Ether	4.124	59	121292	23.30	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.361	67	214789	27.44	ug/L	98
11) 1,1-Dichloroethene	4.398	61	278111	28.53	ug/L	99
12) Freon 113	4.471	101	172888	25.65	ug/L	98
13) Carbon Disulfide	4.477	76	578244	28.49	ug/L	97
14) Iodomethane	4.586	142	270366	25.10	ug/L	99
15) Allyl chloride	4.927	41	216811	24.06	ug/L	96
16) Methylene Chloride	5.048	49	217795	24.66	ug/L	97
17) Acetone	5.067	58	46045	114.05	ug/L	96
18) Methyl acetate	5.194	74	84786	107.84	ug/L #	85
19) trans-1,2-Dichloroethene	5.231	61	257796	28.79	ug/L	98
20) Hexane	5.298	56	153730	26.76	ug/L	99
21) Methyl Tert Butyl Ether	5.334	73	415854	23.30	ug/L	89
22) Acetonitrile	5.590	40	60146	235.98	ug/L	98
23) Di-isopropyl ether	5.718	45	477308	23.36	ug/L	96
24) Chloroprene	5.870	53	240624	25.00	ug/L	98
25) 1,1-Dichloroethane	5.894	63	316755	26.50	ug/L	99
26) Acrylonitrile	5.925	53	212220	118.79	ug/L	98
27) ETBE	6.119	59	482142	23.57	ug/L	96
28) Vinyl acetate	6.107	43	1244794	120.31	ug/L	97
29) cis-1,2-Dichloroethene	6.472	96	178871	23.31	ug/L	99
30) 2,2-Dichloropropane	6.600	77	259677	27.84	ug/L	98
31) Bromochloromethane	6.685	128	80940	23.33	ug/L	95
32) Cyclohexane	6.734	56	291087	25.90	ug/L	95
33) Chloroform	6.740	83	321050	24.19	ug/L	98
34) Ethyl acetate	6.807	43	463603	111.44	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976384.D
Acq On : 10 May 2016 9:38 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 10:01:46 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.916	42	24912	20.34	ug/L	96
37)	Carbon Tetrachloride	6.934	117	273127m	29.61	ug/L	
38)	1,1,1-Trichloroethane	6.989	97	281323	24.79	ug/L	97
39)	2-Butanone	7.026	43	202318	116.35	ug/L	99
40)	1,1-Dichloropropene	7.105	75	229237	25.02	ug/L	96
41)	tert-Butyl Formate	7.190	59	1107532	265.57	ug/L	97
42)	Propionitrile	7.330	54	150360	243.71	ug/L	82
43)	Methacrylonitrile	7.360	41	686511	239.12	ug/L	96
44)	Benzene	7.354	78	724107	25.96	ug/L	98
45)	TAME	7.433	73	430671	23.33	ug/L	98
47)	1,2-Dichloroethane	7.549	62	228753	23.43	ug/L	97
48)	Trichloroethene	7.932	95	183242	25.35	ug/L	95
49)	Methylcyclohexane	7.956	83	332693	27.40	ug/L	98
50)	Dibromomethane	8.358	93	91695	22.73	ug/L	95
51)	1,2-Dichloropropane	8.449	63	163609	23.35	ug/L	96
52)	Bromodichloromethane	8.492	83	222669	24.79	ug/L	99
53)	Methyl methacrylate	8.595	41	93820	25.33	ug/L	97
54)	2-Chloroethyl vinyl ether	9.009	63	494824	139.05	ug/L	97
55)	cis-1,3-Dichloropropene	9.106	75	257394	23.98	ug/L	99
58)	Toluene	9.350	91	741985	24.17	ug/L	98
59)	2-Nitropropane	9.556	41	128585	105.15	ug/L	93
60)	4-Methyl-2-pentanone	9.672	43	506955	115.57	ug/L	98
61)	trans-1,3-Dichloropropene	9.739	75	240146	24.90	ug/L	98
62)	Tetrachloroethene	9.757	166	194803	23.74	ug/L	97
63)	Ethyl methacrylate	9.836	69	143385	20.44	ug/L	96
64)	1,1,2-Trichloroethane	9.903	83	114209	22.80	ug/L	96
65)	Dibromochloromethane	10.098	129	156151	24.53	ug/L	99
66)	1,3-Dichloropropane	10.183	76	219012	21.40	ug/L	98
67)	1,2-Dibromoethane	10.359	107	126550	22.29	ug/L	99
68)	2-hexanone	10.487	43	344913	118.92	ug/L	94
69)	1-Chlorohexane	10.797	91	229529	25.49	ug/L	99
70)	Ethylbenzene	10.858	91	917353	26.20	ug/L	98
71)	Chlorobenzene	10.864	112	518103	25.37	ug/L	98
72)	1,1,1,2-Tetrachloroethane	10.913	131	172492	25.97	ug/L	97
73)	m,p-Xylene	10.998	91	1397303	49.29	ug/L	99
74)	o-Xylene	11.436	91	681729	25.20	ug/L	96
75)	Styrene	11.485	104	516945	23.78	ug/L	98
76)	Bromoform	11.546	173	100321	25.10	ug/L	95
77)	Isopropylbenzene	11.740	105	843905	27.00	ug/L	99
80)	cis-1,4-Dichloro-2-butene	12.087	53	40427	20.79	ug/L	99
81)	n-Propylbenzene	12.160	91	1046914	27.58	ug/L	100
82)	Bromobenzene	12.185	156	218407	24.43	ug/L	99
83)	1,1,2,2-Tetrachloroethane	12.221	83	167098	23.16	ug/L	97
84)	1,3,5-Trimethylbenzene	12.343	105	755108	26.29	ug/L	99
85)	2-Chlorotoluene	12.349	91	727932	26.12	ug/L	99
86)	trans-1,4-Dichloro-2-B...	12.397	53	37476	20.66	ug/L #	83
87)	1,2,3-Trichloropropane	12.385	110	44283	24.09	ug/L	95
88)	Cyclohexanone	12.446	55	17470	151.10	ug/L	97
89)	4-Chlorotoluene	12.519	91	647607	25.96	ug/L	99
90)	a-Methyl Styrene	12.750	118	5322	0.65	ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976384.D
Acq On : 10 May 2016 9:38 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 10:01:46 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	421822	25.13	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	749472	26.12	ug/L	99
93) Pentachloroethane	12.738	167	144064	26.34	ug/L	98
94) sec-Butylbenzene	12.866	105	945080	27.25	ug/L	100
95) 4-Isopropyltoluene	13.000	119	789782	27.14	ug/L	100
96) 1,3-Dichlorobenzene	13.134	146	390471	24.63	ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	390403	23.20	ug/L	96
98) n-Butylbenzene	13.432	92	433104	25.82	ug/L	98
99) Benzyl Chloride	13.450	126	58794	24.59	ug/L #	82
100) 1,2-Dichlorobenzene	13.645	146	346733	22.85	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	21409	19.61	ug/L	95
102) Hexachlorobutadiene	14.928	225	167795	24.76	ug/L	97
103) 1,2,4-Trichlorobenzene	14.971	180	240194	21.68	ug/L	97
104) Naphthalene	15.257	128	360195	19.38	ug/L	98
105) 1,2,3-Trichlorobenzene	15.427	180	205791	20.96	ug/L	98
107) Ethanol	4.294	45	22602	560.87	ug/L	73
108) acrolein	4.763	56	93976	92.61	ug/L	93
109) Tert Butyl Alcohol	5.377	59	97357	231.42	ug/L	92
110) tert Amyl alcohol	7.573	59	70621	239.32	ug/L	94
111) Isobutyl alcohol	7.452	42	68527	413.09	ug/L #	86
112) 1,4-Dioxane	8.668	88	21351	619.52	ug/L	92
113) 3,3-Dimethyl-1-butanol	10.432	57	425060	1175.83	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.1

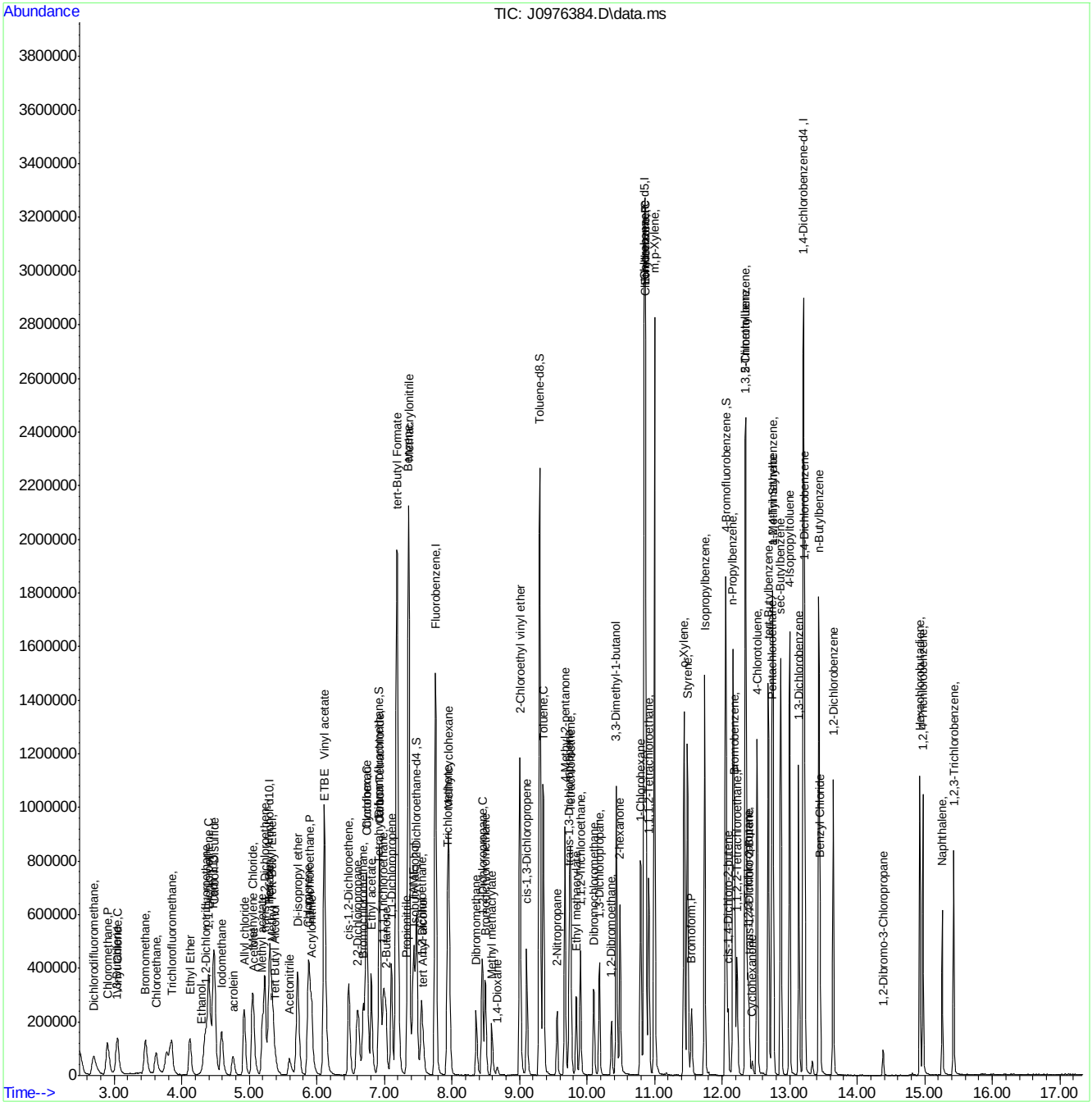
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976384.D
Acq On : 10 May 2016 9:38 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 10:01:46 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



MSJ031516.M Wed May 11 13:40:37 2016 Page: 4

SGS ACCUTEST FA33788

Manual Integration Approval Summary

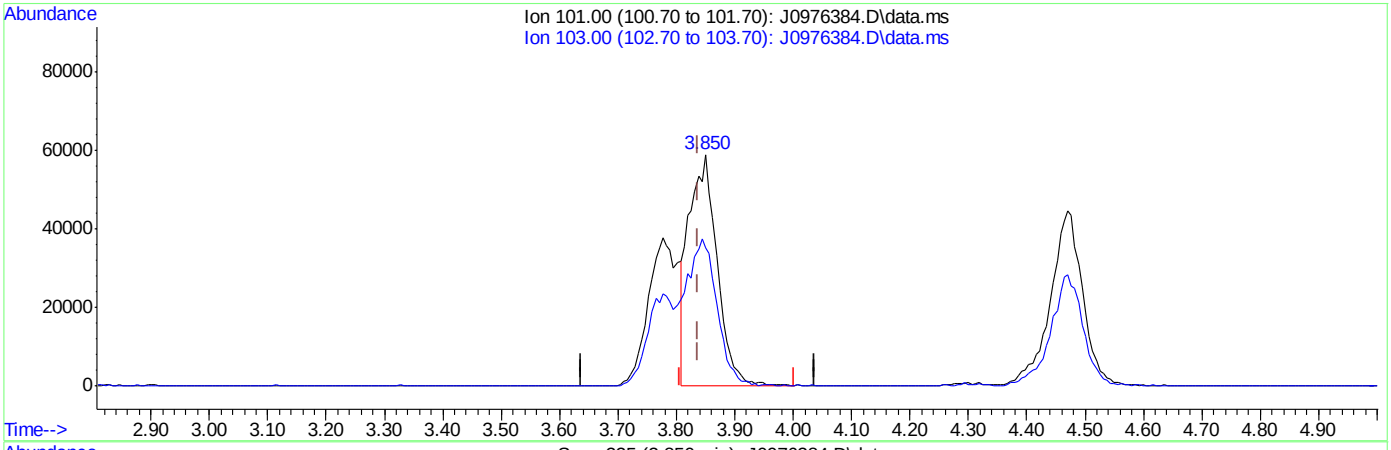
Sample Number:	VJ5292-BS	**Method:**	SW846 8260C
Lab FileID:	J0976384.D	**Analyst approved:**	05/11/16 14:57 Wilfredo Vazquez
Injection Time:	05/10/16 09:38	**Supervisor approved:**	05/11/16 15:38 Juan Garcia

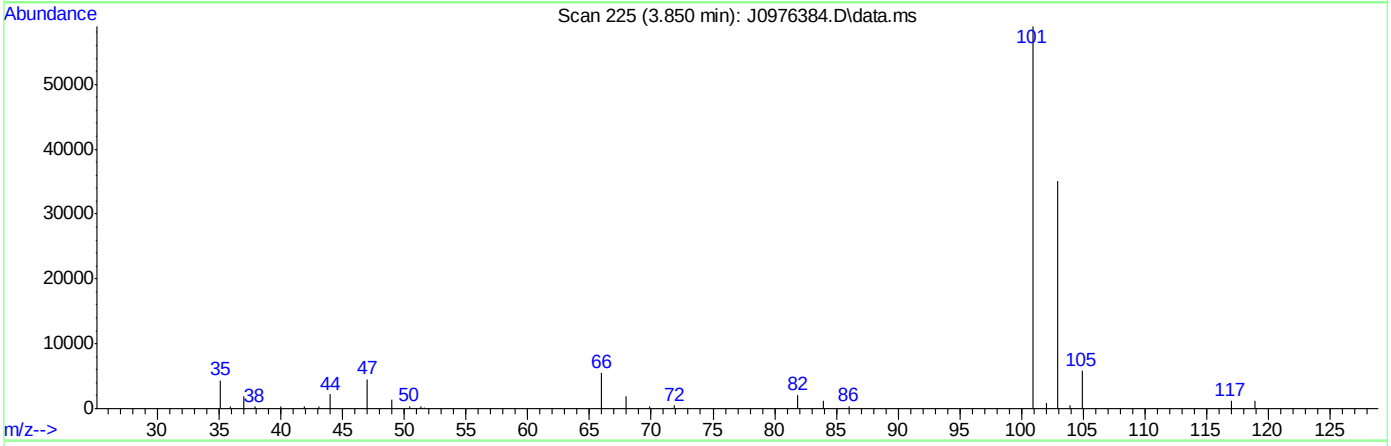
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.85	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976384.D
Acq On : 10 May 2016 9:38 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 10:01:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976384.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.012) 17.56ug/L

response 197961

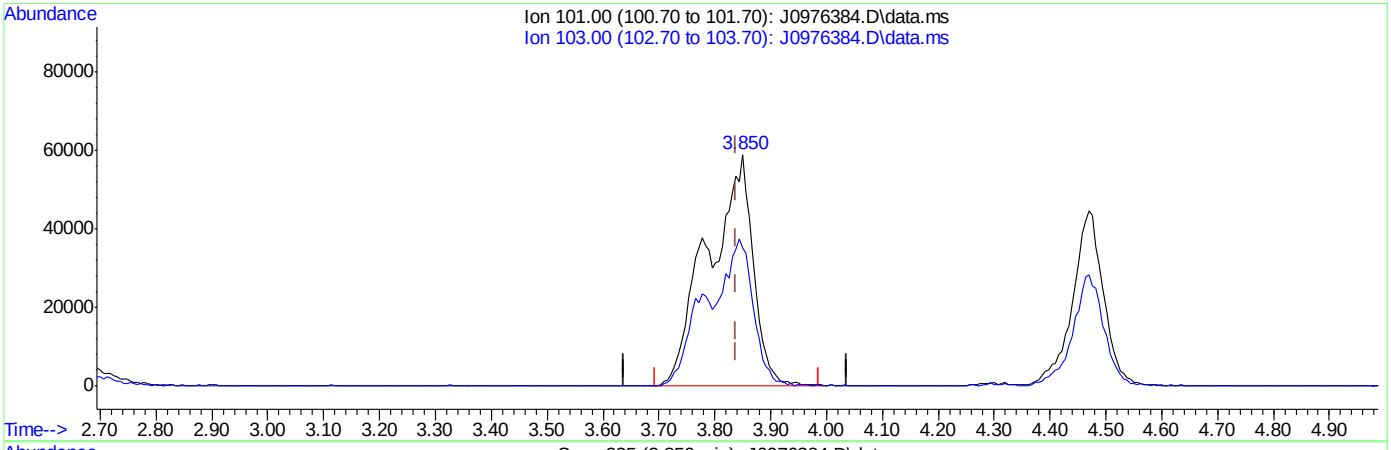
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	59.64
0.00	0.00	0.00
0.00	0.00	0.00

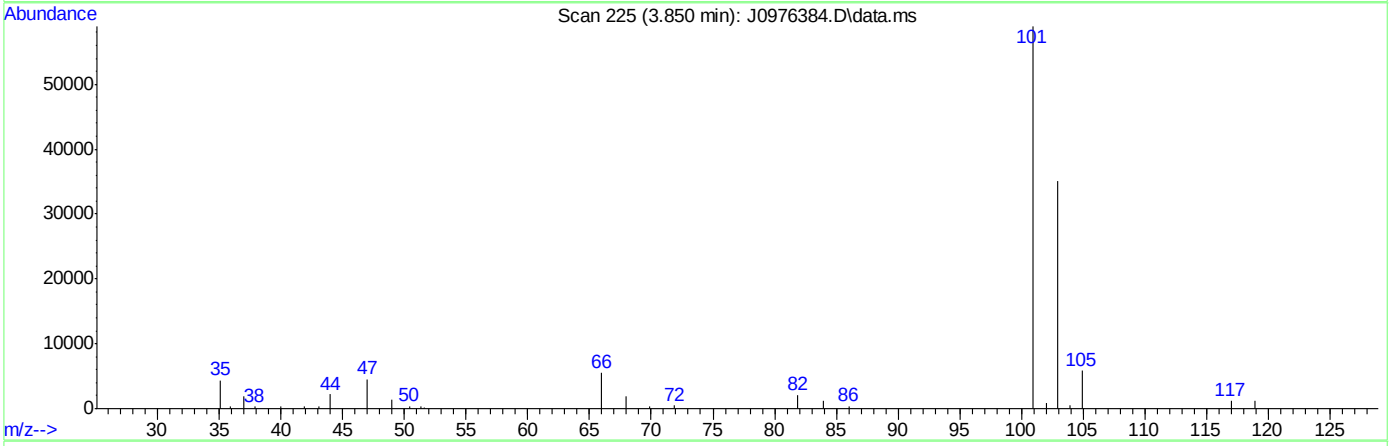
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976384.D
Acq On : 10 May 2016 9:38 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 10:01:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976384.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.012) 29.42ug/L m

response 331598

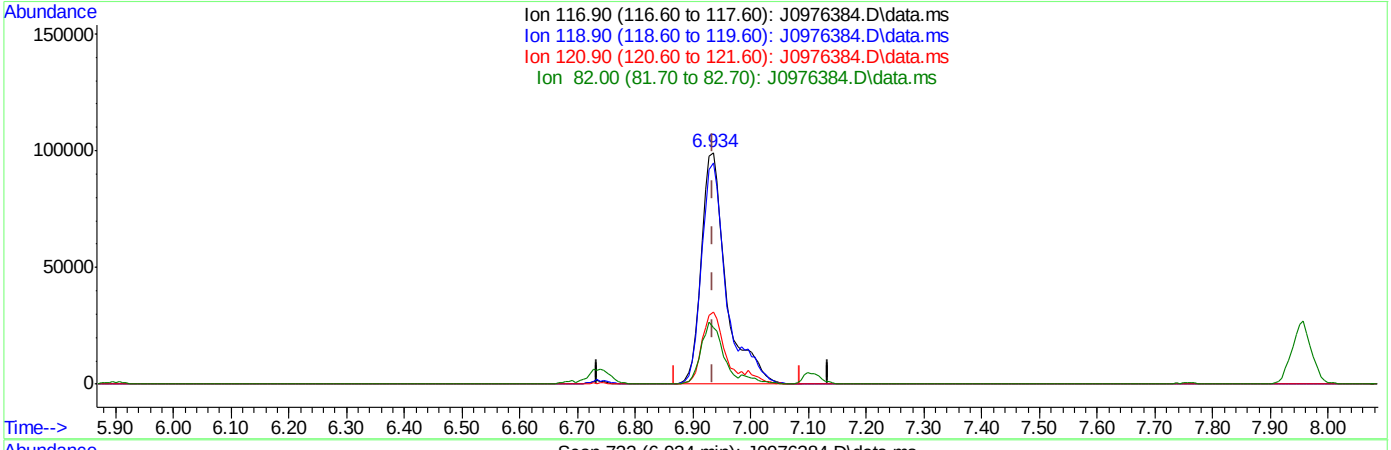
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	59.64
0.00	0.00	0.00
0.00	0.00	0.00

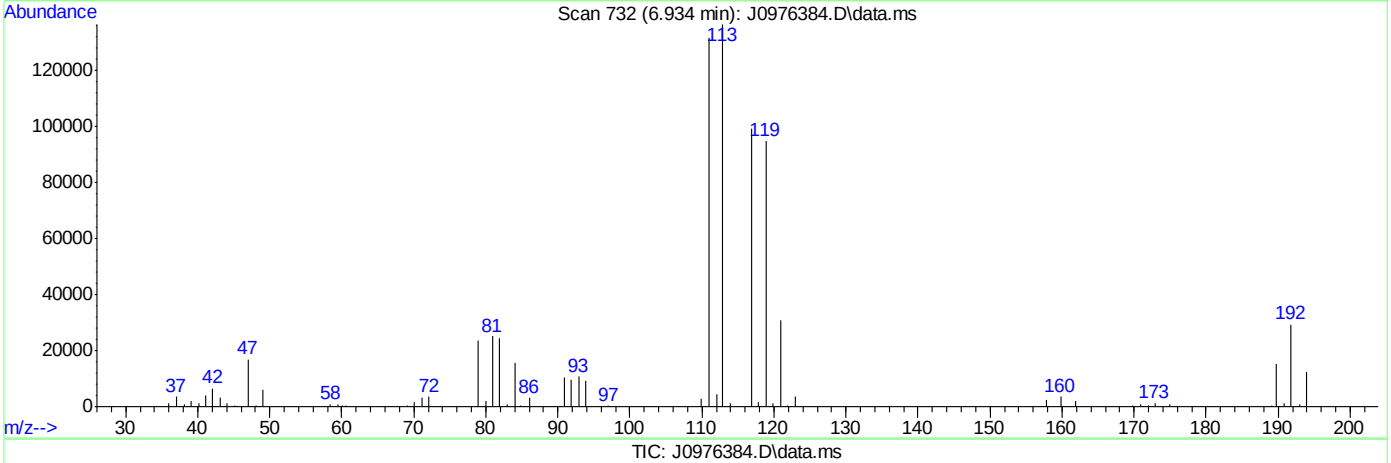
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976384.D
Acq On : 10 May 2016 9:38 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 10:01:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976384.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 32.20ug/L

response 296972

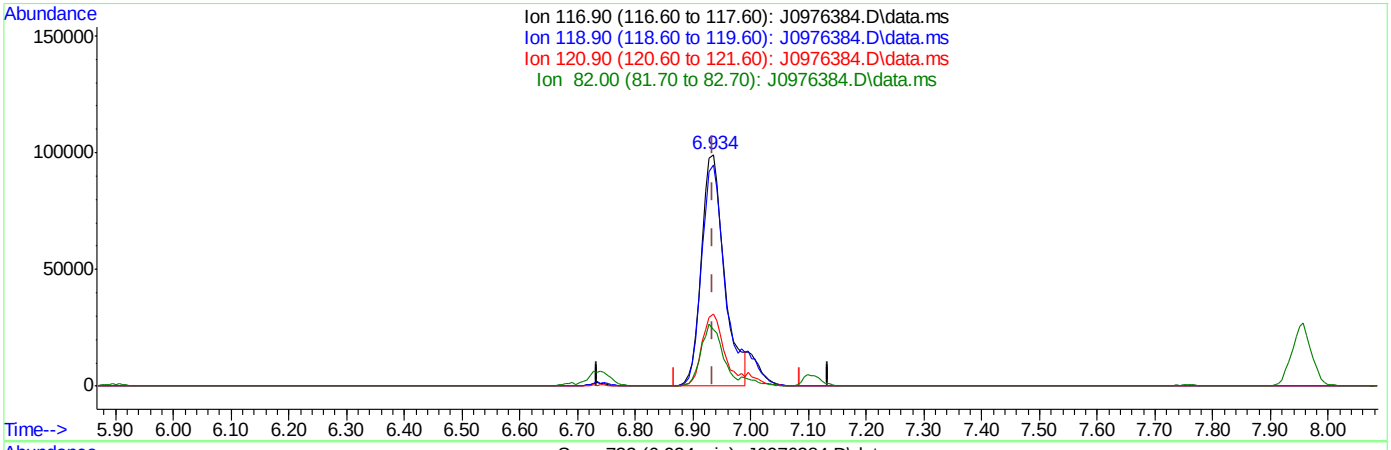
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.48
120.90	31.80	30.92
82.00	25.40	24.56

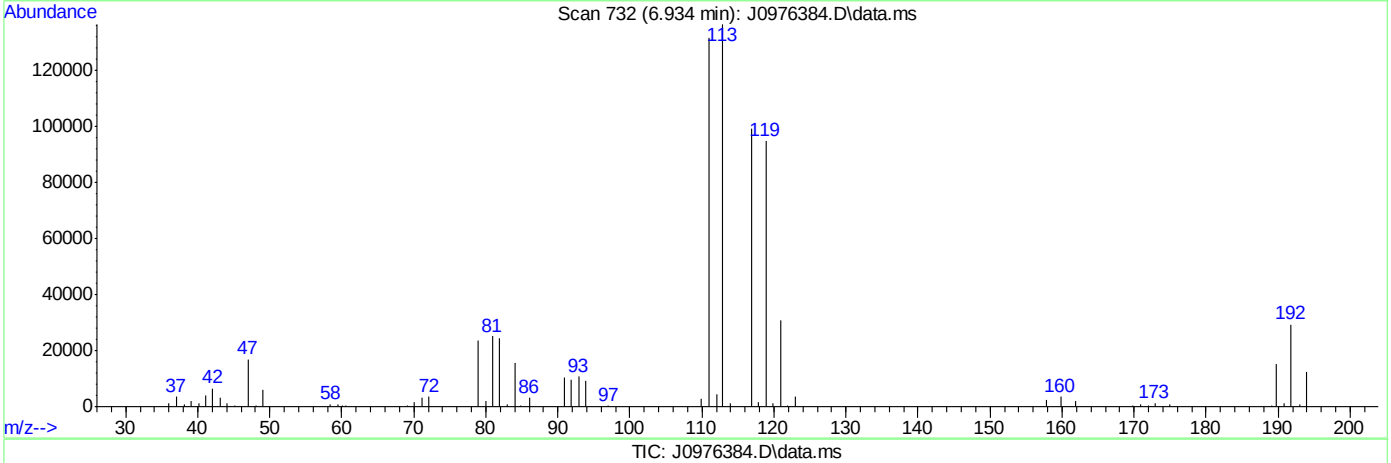
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976384.D
Acq On : 10 May 2016 9:38 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 10:01:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.934min (-0.001) 29.61ug/L m

response 273127

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.48
120.90	31.80	30.92
82.00	25.40	24.56

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115588.D
Acq On : 12 May 2016 3:50 pm
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 13 07:25:54 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	974696	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	668688	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	351771	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.523	65	87288	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	280163	49.15	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.30%			
44) 1,2-Dichloroethane-d4	6.616	65	302408	46.75	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 93.50%			
55) Toluene-d8	8.453	98	966199	49.77	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.54%			
77) 4-Bromofluorobenzene	11.227	174	235462	51.45	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 102.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.224	85	575492	52.32	ug/Kg	95
3) Chloromethane	2.412	50	574918	55.47	ug/Kg	99
4) Vinyl Chloride	2.528	62	470997	54.28	ug/Kg	97
5) Bromomethane	2.874	94	188256	51.44	ug/Kg	92
6) Chloroethane	3.014	64	144013	46.62	ug/Kg	90
7) Trichlorofluoromethane	3.167	101	549473	49.40	ug/Kg	98
8) Ethyl Ether	3.440	59	210560	48.04	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.665	67	372700	55.11	ug/Kg	89
10) 1,1-Dichloroethene	3.665	61	514934	52.23	ug/Kg	95
11) Freon 113	3.720	101	311543	50.51	ug/Kg	95
12) Carbon Disulfide	3.708	76	974105	51.10	ug/Kg	93
13) Iodomethane	3.824	142	552627	49.61	ug/Kg	89
14) Allyl chloride	4.146	41	394090	45.36	ug/Kg	83
15) Methylene Chloride	4.255	49	397963	53.96	ug/Kg	98
16) Acetone	4.310	43	277959	214.62	ug/Kg	91
17) Methyl acetate	4.414	43	601118	249.97	ug/Kg	96
18) trans-1,2-Dichloroethene	4.420	61	469405	57.66	ug/Kg	98
19) Hexane	4.474	56	223791	50.59	ug/Kg	87
20) Methyl Tert Butyl Ether	4.511	73	787304	49.02	ug/Kg	94
21) Acetonitrile	4.791	41	164658	452.52	ug/Kg	92
22) Di-isopropyl ether	4.882	45	807281	49.88	ug/Kg	95
23) Chloroprene	5.016	53	527996	45.44	ug/Kg	91
24) 1,1-Dichloroethane	5.046	63	575674	53.60	ug/Kg	99
25) Acrylonitrile	5.101	52	283758	242.00	ug/Kg	91
26) ETBE	5.253	59	830516	49.10	ug/Kg	96
27) Vinyl acetate	5.271	43	1911037	257.72	ug/Kg	96
28) cis-1,2-Dichloroethene	5.594	96	369593	48.81	ug/Kg	97
29) 2,2-Dichloropropane	5.703	77	407576	54.19	ug/Kg	96
30) Bromochloromethane	5.807	128	157127	46.68	ug/Kg	90
31) Cyclohexane	5.807	84	488562	48.03	ug/Kg	96
32) Chloroform	5.868	83	623344	51.97	ug/Kg	96
33) Ethyl acetate	5.965	43	757835	253.36	ug/Kg	99
34) Tetrahydrofuran	6.044	42	47050	54.96	ug/Kg	94

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115588.D
Acq On : 12 May 2016 3:50 pm
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 13 07:25:54 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon Tetrachloride	6.020	117	603348	50.81	ug/Kg	98
37) 1,1,1-Trichloroethane	6.093	97	547740	49.15	ug/Kg	94
38) 2-Butanone	6.184	43	372994	215.68	ug/Kg	94
39) 1,1-Dichloropropene	6.214	75	455617	51.63	ug/Kg	91
40) Propionitrile	6.500	54	249371	484.86	ug/Kg	90
41) Methacrylonitrile	6.519	41	1023569	480.49	ug/Kg	95
42) Benzene	6.470	78	1195353	50.27	ug/Kg	96
43) TAME	6.561	73	703741	46.69	ug/Kg	94
45) 1,2-Dichloroethane	6.683	62	410391	49.14	ug/Kg	95
46) Trichloroethene	7.054	95	329459	50.61	ug/Kg	95
47) Methylcyclohexane	7.048	83	539460	50.17	ug/Kg	98
48) Dibromomethane	7.492	93	183325	49.14	ug/Kg	84
49) 1,2-Dichloropropane	7.589	63	261755	47.66	ug/Kg	83
50) Bromodichloromethane	7.644	83	415352	50.83	ug/Kg	96
51) Methyl methacrylate	7.772	41	149206	54.53	ug/Kg	90
52) 2-Chloroethyl vinyl ether	8.192	63	525028	243.74	ug/Kg	96
53) cis-1,3-Dichloropropene	8.271	75	434146	56.84	ug/Kg	92
56) Toluene	8.508	91	1172405	51.83	ug/Kg	96
57) 2-Nitropropane	8.745	41	274761	238.73	ug/Kg	96
58) 4-Methyl-2-pentanone	8.867	43	947342	244.44	ug/Kg	94
59) trans-1,3-Dichloropropene	8.915	75	316373	56.76	ug/Kg	93
60) Tetrachloroethene	8.891	166	283310	49.76	ug/Kg	87
61) Ethyl methacrylate	9.043	69	208223	44.25	ug/Kg	92
62) 1,1,2-Trichloroethane	9.080	83	180032	50.16	ug/Kg	94
63) Dibromochloromethane	9.262	129	271715	54.69	ug/Kg	98
64) 1,3-Dichloropropane	9.360	76	331106	50.88	ug/Kg	94
65) 1,2-Dibromoethane	9.512	107	200165	52.58	ug/Kg	97
66) 2-hexanone	9.694	43	511840	223.40	ug/Kg	94
67) 1-Chlorohexane	9.974	91	363335	50.81	ug/Kg	95
68) Ethylbenzene	10.035	91	1263535	53.28	ug/Kg	96
69) Chlorobenzene	10.023	112	697012	52.18	ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.084	131	324796	52.74	ug/Kg	88
71) m,p-Xylene	10.175	91	1944736	112.44	ug/Kg	96
72) o-Xylene	10.613	91	1189486	53.16	ug/Kg	96
73) Styrene	10.668	104	705200	53.67	ug/Kg	95
74) Bromoform	10.716	173	129511	53.52	ug/Kg	94
75) Isopropylbenzene	10.923	105	1426437	54.59	ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.282	53	50350	43.46	ug/Kg	76
79) n-Propylbenzene	11.343	91	1519552	48.64	ug/Kg	99
80) Bromobenzene	11.343	156	279644	50.05	ug/Kg	100
81) 1,1,2,2-Tetrachloroethane	11.422	83	292284	46.30	ug/Kg	99
82) 1,3,5-Trimethylbenzene	11.531	105	1166764	46.90	ug/Kg	96
83) 2-Chlorotoluene	11.519	91	1109142	52.43	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.604	53	50708	50.05	ug/Kg#	77
85) 1,2,3-Trichloropropane	11.574	110	78985	47.61	ug/Kg	95
86) Cyclohexanone	11.629	55	39205	225.46	ug/Kg	95
87) 4-Chlorotoluene	11.690	91	928987	53.50	ug/Kg	100
88) tert-Butylbenzene	11.866	91	784648	45.84	ug/Kg	92
89) 1,2,4-Trimethylbenzene	11.939	105	1144624	46.56	ug/Kg	96
90) Pentachloroethane	11.909	167	194125	51.28	ug/Kg	91

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115588.D
Acq On : 12 May 2016 3:50 pm
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 13 07:25:54 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.049	105	1517651	49.75	ug/Kg	100
92) 4-Isopropyltoluene	12.188	119	1247468	47.52	ug/Kg	99
93) 1,3-Dichlorobenzene	12.298	146	582941	52.76	ug/Kg	99
94) 1,4-Dichlorobenzene	12.389	146	555593	52.16	ug/Kg	98
95) n-Butylbenzene	12.626	92	691833	48.73	ug/Kg	98
96) Benzyl Chloride	12.639	126	110193	51.27	ug/Kg#	64
97) 1,2-Dichlorobenzene	12.833	146	600788	53.30	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.642	75	69607	47.31	ug/Kg	92
99) Hexachlorobutadiene	14.220	225	243446	48.94	ug/Kg	87
100) 1,2,4-Trichlorobenzene	14.263	180	432388	53.57	ug/Kg	96
101) Naphthalene	14.555	128	1182194	56.52	ug/Kg	98
102) 1,2,3-Trichlorobenzene	14.713	180	424624	51.28	ug/Kg	96
104) Ethanol	3.580	45	27884	1069.41	ug/Kg	91
105) Acrolein	4.012	56	175835	321.21	ug/Kg	95
106) Tert butyl alcohol	4.596	59	249102	561.09	ug/Kg	96
107) Isobutyl alcohol	6.652	42	89568	1052.56	ug/Kg	89
108) Tert Amyl Alcohol	6.756	59	186712	560.79	ug/Kg	98
109) 1,4-Dioxane	7.851	88	40063	1090.09	ug/Kg	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.3.2

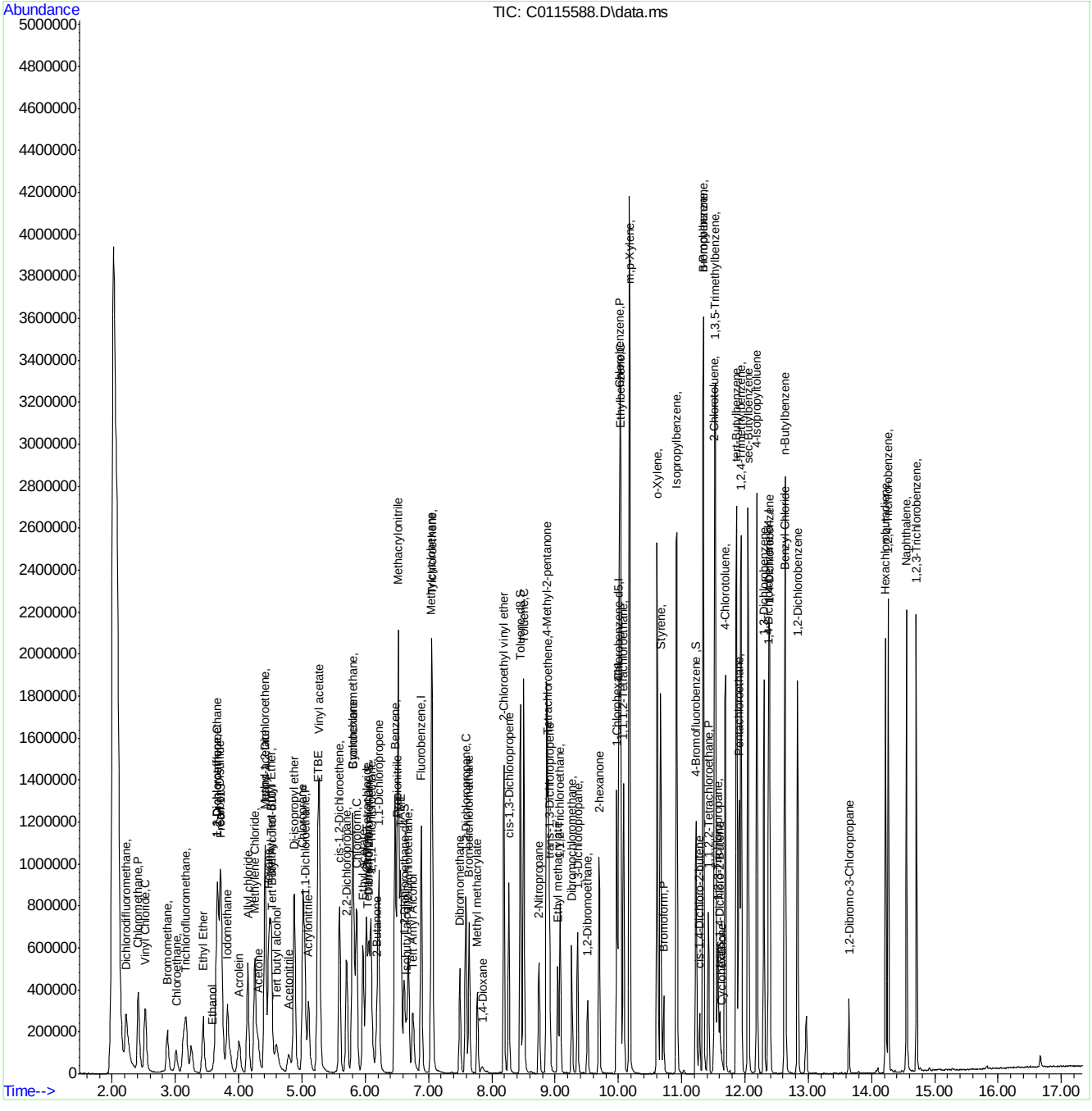
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115588.D
Acq On : 12 May 2016 3:50 pm
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms33850,vc4595,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 13 07:25:54 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/11/16 16:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976405.D
Acq On : 10 May 2016 5:39 pm
Operator : darshnap
Sample : fa33788-1MS MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 13:05:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1198867	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1008909	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	566339	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	85262	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	312249	51.33	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.66%			
46) 1,2-Dichloroethane-d4	7.476	65	378222	51.41	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.82%			
57) Toluene-d8	9.301	98	1225982	46.19	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 92.38%			
79) 4-Bromofluorobenzene	12.051	95	498145	48.63	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.26%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	176650	23.94	ug/L	98
3) Chloromethane	2.889	50	207184	26.23	ug/L	96
4) Vinyl Chloride	3.035	62	241314	29.83	ug/L	97
5) 1,3-Butadiene	3.023	54	52454	8.72	ug/L	90
6) Bromomethane	3.461	94	148882	25.34	ug/L	96
7) Chloroethane	3.607	64	117982	28.95	ug/L	99
8) Trichlorofluoromethane	3.838	101	320020m	31.89	ug/L	
9) Ethyl Ether	4.118	59	121402	26.19	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.349	67	212097	30.43	ug/L	97
11) 1,1-Dichloroethene	4.398	61	270981	31.22	ug/L	97
12) Freon 113	4.458	101	171231	28.53	ug/L	98
13) Carbon Disulfide	4.471	76	504908	27.94	ug/L	97
14) Iodomethane	4.580	142	268734	28.02	ug/L	99
15) Allyl chloride	4.921	41	170869	21.29	ug/L	93
16) Methylene Chloride	5.043	49	211905	26.97	ug/L	98
17) Acetone	5.061	58	44760	124.50	ug/L	98
18) Methyl acetate	5.195	74	78512	112.14	ug/L	94
19) trans-1,2-Dichloroethene	5.225	61	251674	31.57	ug/L	99
20) Hexane	5.298	56	168770	32.99	ug/L	96
21) Methyl Tert Butyl Ether	5.335	73	697969	43.92	ug/L	80
22) Acetonitrile	5.590	40	55693	245.46	ug/L	94
23) Di-isopropyl ether	5.712	45	466700	25.66	ug/L	98
24) Chloroprene	5.870	53	210401	24.55	ug/L	96
25) 1,1-Dichloroethane	5.894	63	303881	28.55	ug/L	100
26) Acrylonitrile	5.925	53	169026	106.25	ug/L	99
27) ETBE	6.113	59	460726	25.29	ug/L	99
28) Vinyl acetate	6.107	43	1014418	110.10	ug/L	96
29) cis-1,2-Dichloroethene	6.472	96	178156	26.07	ug/L	97
30) 2,2-Dichloropropane	6.606	77	231156	27.83	ug/L	99
31) Bromochloromethane	6.685	128	77598	25.12	ug/L	96
32) Cyclohexane	6.734	56	286324	28.61	ug/L	97
33) Chloroform	6.740	83	316944	26.82	ug/L	98
34) Ethyl acetate	6.807	43	392002	105.82	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976405.D
Acq On : 10 May 2016 5:39 pm
Operator : darshnap
Sample : fa33788-1MS MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 13:05:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	28622	26.38 ug/L	92
37) Carbon Tetrachloride	6.934	117	257289m	31.33 ug/L	
38) 1,1,1-Trichloroethane	6.989	97	284198	28.13 ug/L	96
39) 2-Butanone	7.020	43	191908	123.92 ug/L	97
40) 1,1-Dichloropropene	7.105	75	217894	26.70 ug/L	99
41) tert-Butyl Formate	7.184	59	51464	13.84 ug/L #	82
42) Propionitrile	7.330	54	133164	242.38 ug/L	83
43) Methacrylonitrile	7.360	41	584410	228.59 ug/L	96
44) Benzene	7.354	78	689926	27.78 ug/L	97
45) TAME	7.427	73	400571	24.37 ug/L	94
47) 1,2-Dichloroethane	7.549	62	216050	24.85 ug/L	96
48) Trichloroethene	7.932	95	178825	27.79 ug/L	97
49) Methylcyclohexane	7.957	83	321035	29.69 ug/L	97
50) Dibromomethane	8.358	93	89665	24.96 ug/L	98
51) 1,2-Dichloropropane	8.449	63	154566	24.77 ug/L	92
52) Bromodichloromethane	8.492	83	207873	25.99 ug/L	96
53) Methyl methacrylate	8.589	41	81703	24.77 ug/L	97
55) cis-1,3-Dichloropropene	9.112	75	228306	23.89 ug/L	99
58) Toluene	9.350	91	719818	24.63 ug/L	97
59) 2-Nitropropane	9.557	41	126187	108.44 ug/L	95
60) 4-Methyl-2-pentanone	9.672	43	502002	120.25 ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	215903	23.51 ug/L	94
62) Tetrachloroethene	9.757	166	187425	24.00 ug/L	98
63) Ethyl methacrylate	9.836	69	134505	20.15 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	111210	23.33 ug/L	98
65) Dibromochloromethane	10.098	129	132734	21.91 ug/L	91
66) 1,3-Dichloropropane	10.183	76	217667	22.35 ug/L	98
67) 1,2-Dibromoethane	10.360	107	127636	23.62 ug/L	100
68) 2-hexanone	10.487	43	349768	126.70 ug/L	96
69) 1-Chlorohexane	10.798	91	228189	26.63 ug/L	98
70) Ethylbenzene	10.858	91	929293	27.89 ug/L	99
71) Chlorobenzene	10.865	112	525582	27.04 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	168688	26.68 ug/L	97
73) m,p-Xylene	10.998	91	1378771	51.28 ug/L	100
74) o-Xylene	11.436	91	666503	25.89 ug/L	98
75) Styrene	11.485	104	461667	22.30 ug/L	100
76) Bromoform	11.546	173	78524	20.72 ug/L	99
77) Isopropylbenzene	11.741	105	844081	28.37 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	20203	10.98 ug/L	96
81) n-Propylbenzene	12.160	91	1037374	28.87 ug/L	100
82) Bromobenzene	12.185	156	218313	25.80 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.221	83	167815	24.58 ug/L	100
84) 1,3,5-Trimethylbenzene	12.343	105	728592	26.80 ug/L	99
85) 2-Chlorotoluene	12.349	91	730067	27.68 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.404	53	23444	13.70 ug/L	94
87) 1,2,3-Trichloropropane	12.379	110	46087	26.48 ug/L	96
88) Cyclohexanone	12.446	55	16027	146.45 ug/L	95
89) 4-Chlorotoluene	12.519	91	647334	27.41 ug/L	99
90) a-Methyl Styrene	12.750	118	6178	0.80 ug/L #	1
91) tert-Butylbenzene	12.683	91	427381	26.90 ug/L	98

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976405.D
Acq On : 10 May 2016 5:39 pm
Operator : darshnap
Sample : fa33788-1MS MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 13:05:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92)	1,2,4-Trimethylbenzene	12.750	105	728501	26.82	ug/L	99
93)	Pentachloroethane	12.738	167	134179	25.91	ug/L	100
94)	sec-Butylbenzene	12.866	105	948703	28.90	ug/L	99
95)	4-Isopropyltoluene	13.000	119	787680	28.60	ug/L	99
96)	1,3-Dichlorobenzene	13.134	146	391428	26.09	ug/L	96
97)	1,4-Dichlorobenzene	13.219	146	407545	25.59	ug/L	97
98)	n-Butylbenzene	13.432	92	426812	26.88	ug/L	97
99)	Benzyl Chloride	13.450	126	51646	22.89	ug/L #	73
100)	1,2-Dichlorobenzene	13.645	146	357162	24.87	ug/L	98
101)	1,2-Dibromo-3-Chloropr...	14.381	75	22029	21.28	ug/L	88
102)	Hexachlorobutadiene	14.928	225	161331	25.15	ug/L	94
103)	1,2,4-Trichlorobenzene	14.971	180	233668	22.29	ug/L	98
104)	Naphthalene	15.257	128	381126	21.67	ug/L	99
105)	1,2,3-Trichlorobenzene	15.427	180	195113	21.00	ug/L	97
107)	Ethanol	4.282	45	16629	412.88	ug/L	86
108)	acrolein	4.757	56	79218	79.47	ug/L	95
109)	Tert Butyl Alcohol	5.371	59	206873	500.57	ug/L	97
110)	tert Amyl alcohol	7.567	59	76296	263.20	ug/L	95
111)	Isobutyl alcohol	7.452	42	62256	380.86	ug/L	90
112)	1,4-Dioxane	8.668	88	405038	11963.57	ug/L	96
113)	3,3-Dimethyl-1-butanol	10.433	57	440860	1241.43	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.1

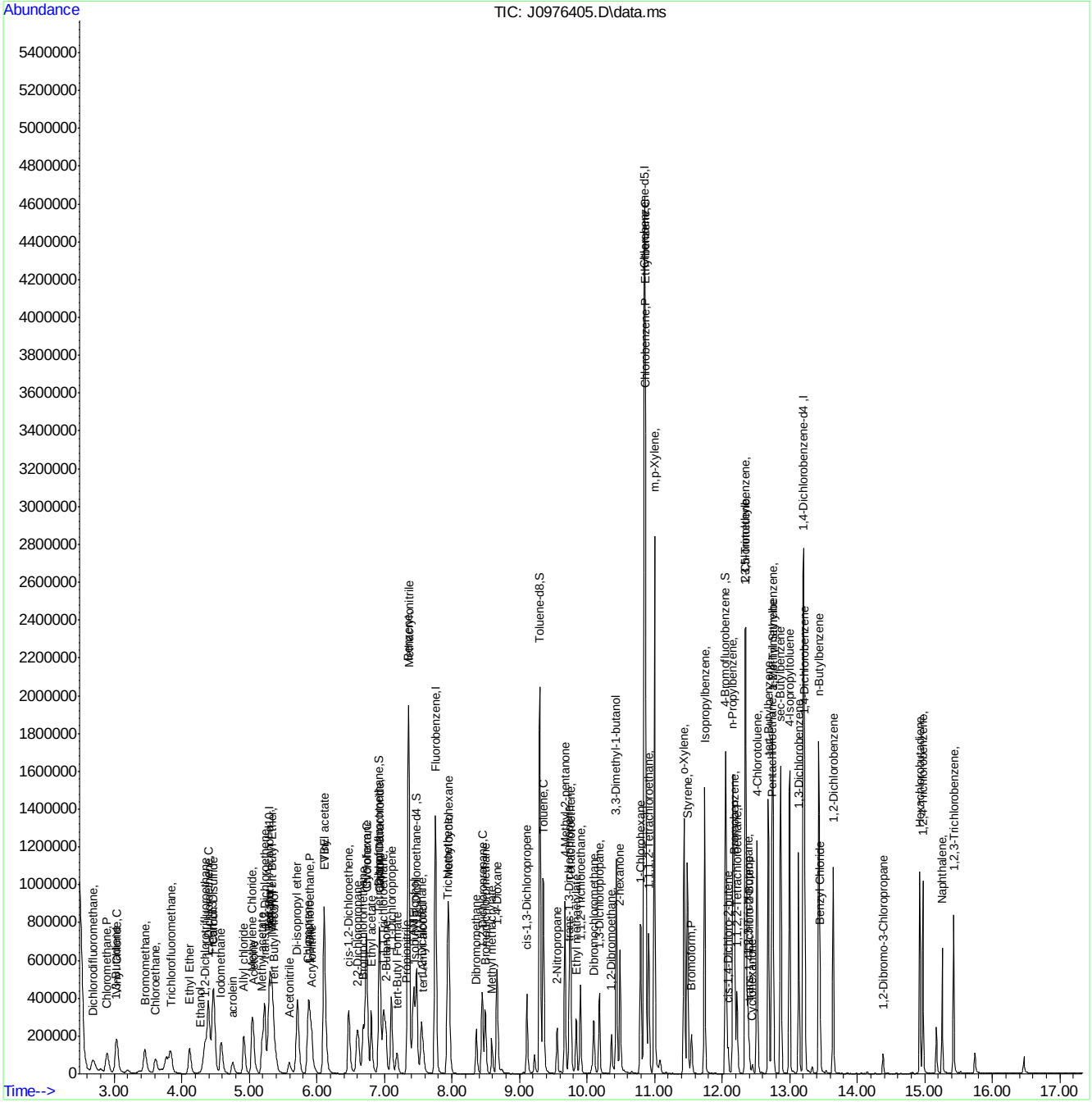
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976405.D
Acq On : 10 May 2016 5:39 pm
Operator : darshnap
Sample : fa33788-1MS MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 13:05:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



MSJ031516.M Wed May 11 13:26:46 2016 Page: 4

Manual Integration Approval Summary

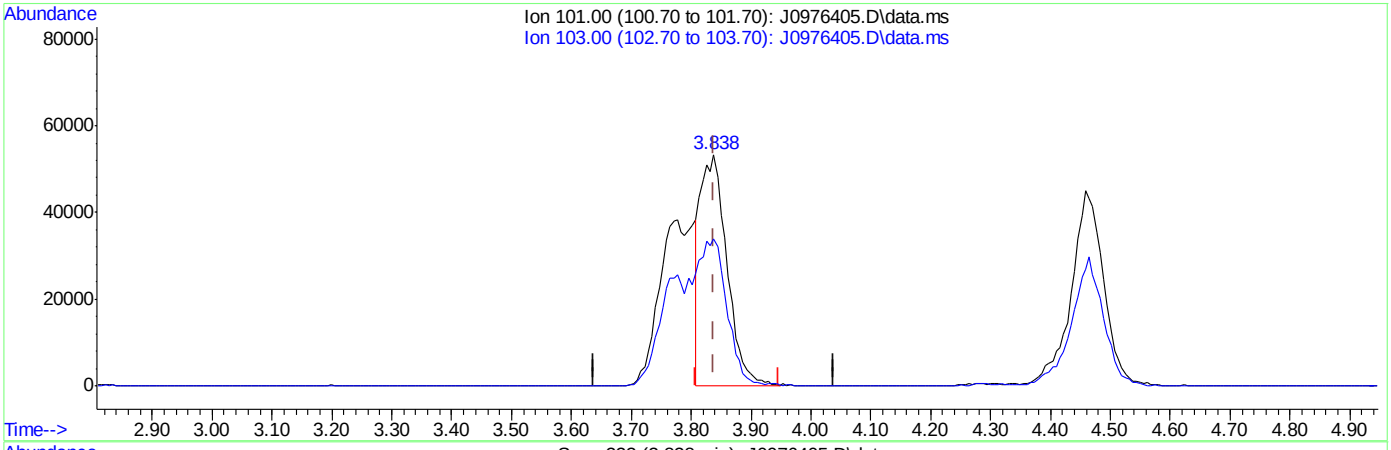
Sample Number:	FA33788-1MS	**Method:**	SW846 8260C
Lab FileID:	J0976405.D	**Analyst approved:**	05/11/16 16:21 Trang Diep
Injection Time:	05/10/16 17:39	**Supervisor approved:**	05/11/16 16:21 Juan Garcia

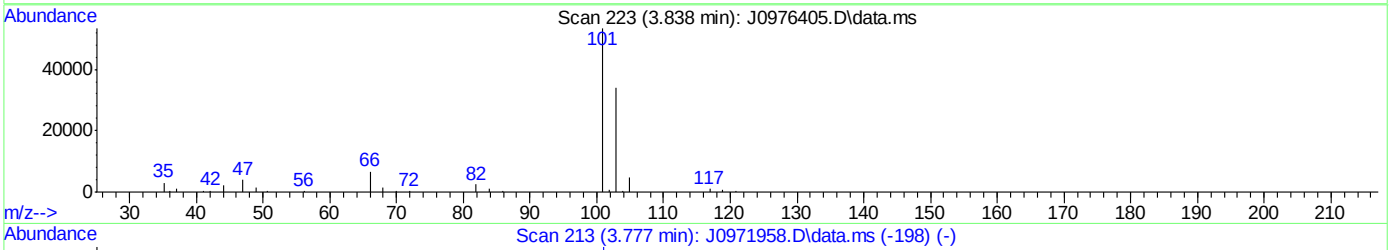
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

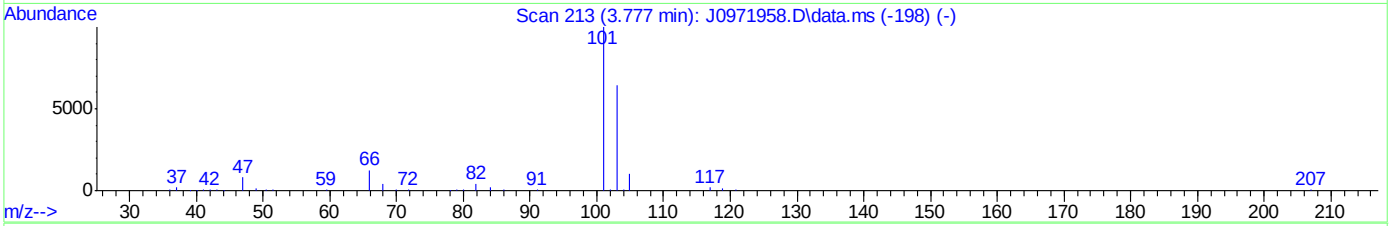
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976405.D
Acq On : 10 May 2016 5:39 pm
Operator : darshnap
Sample : fa33788-1MS MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 12:58:32 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976405.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 16.36ug/L

response 164176

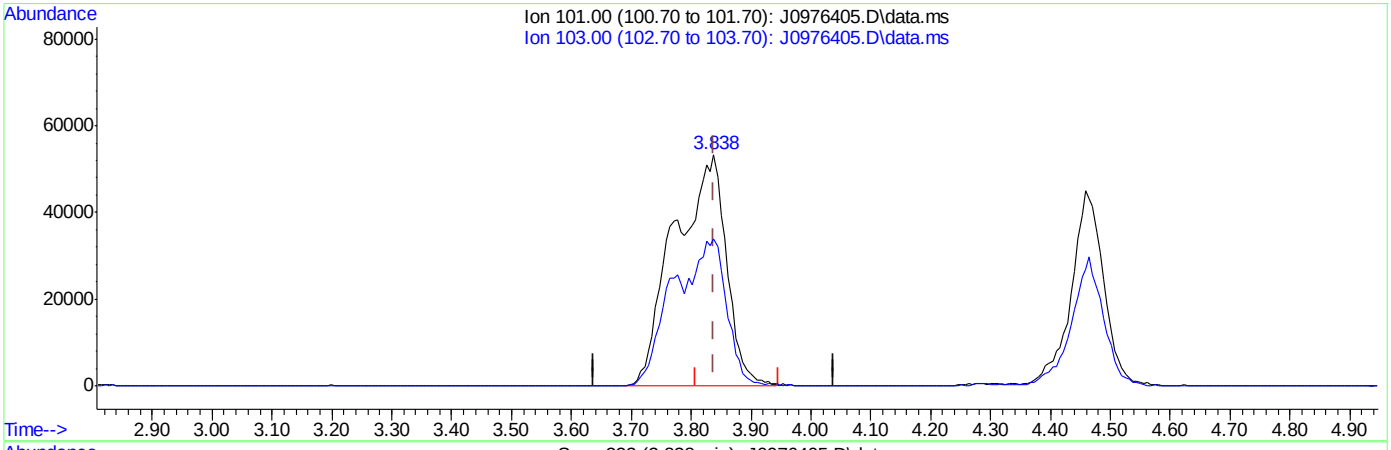
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.10
0.00	0.00	0.00
0.00	0.00	0.00

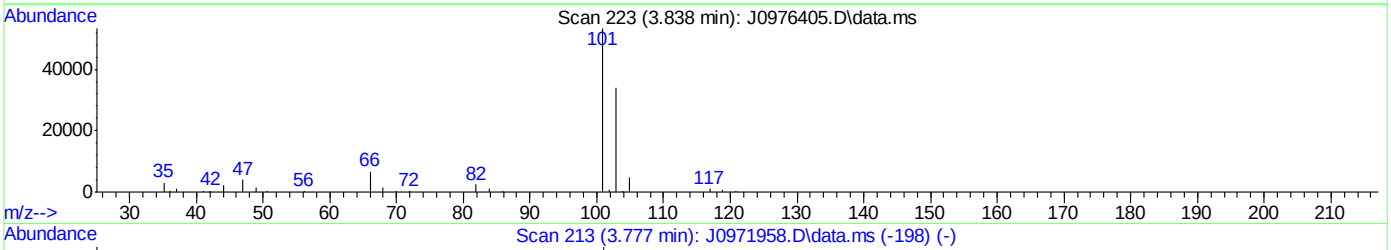
SGS ACCUTEST FA33788

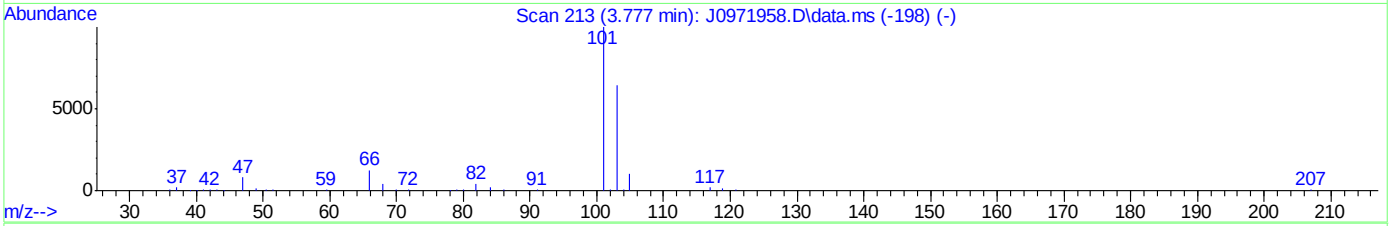
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976405.D
Acq On : 10 May 2016 5:39 pm
Operator : darshnap
Sample : fa33788-1MS MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 12:58:32 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976405.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 31.89ug/L m

response 320020

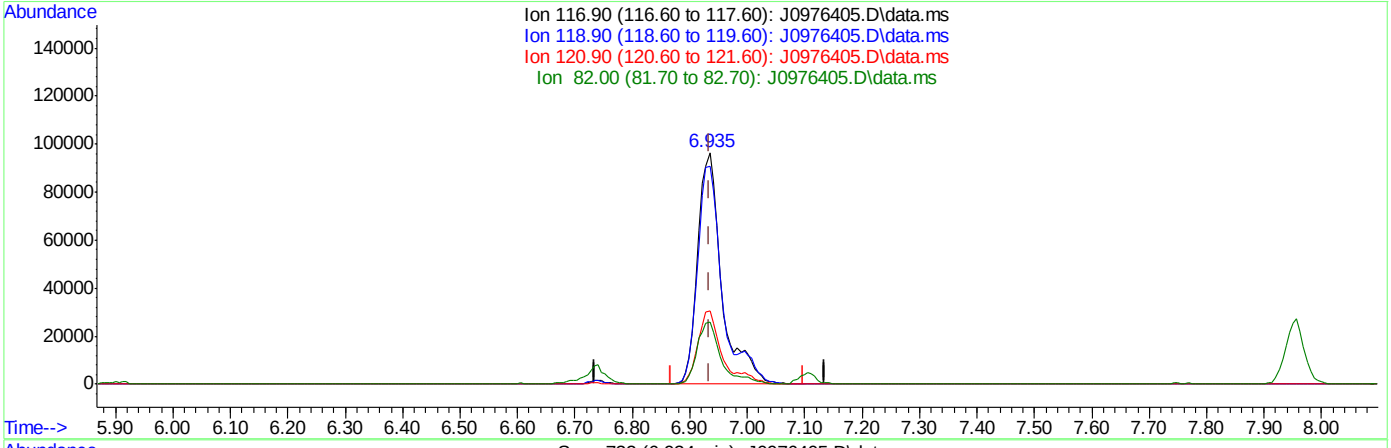
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.59
0.00	0.00	0.00
0.00	0.00	0.00

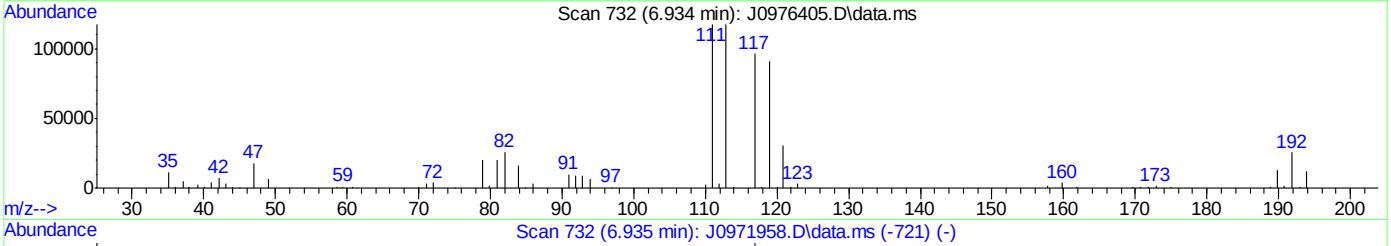
SGS ACCUTEST FA33788

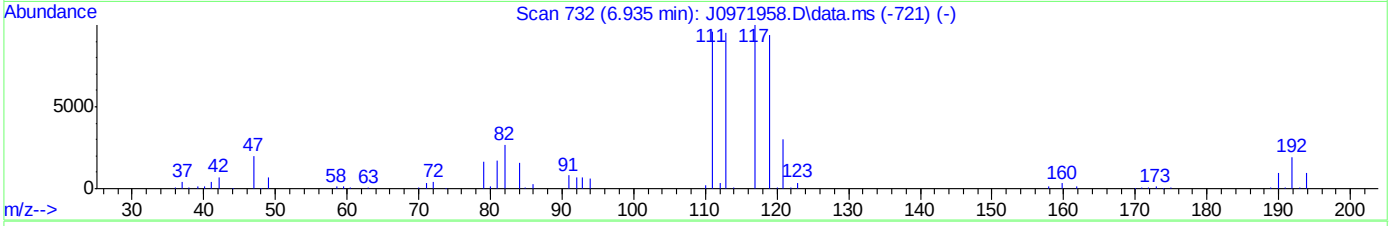
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976405.D
Acq On : 10 May 2016 5:39 pm
Operator : darshnap
Sample : fa33788-1MS MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 12:58:32 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976405.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.000) 34.43ug/L

response 282765

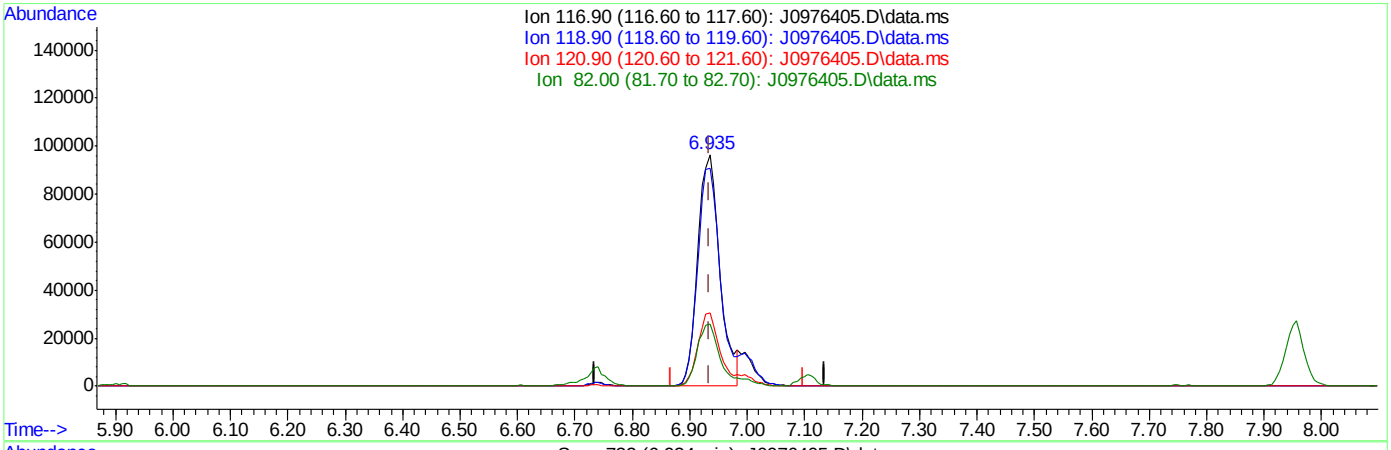
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.26
120.90	31.80	31.79
82.00	25.40	27.02

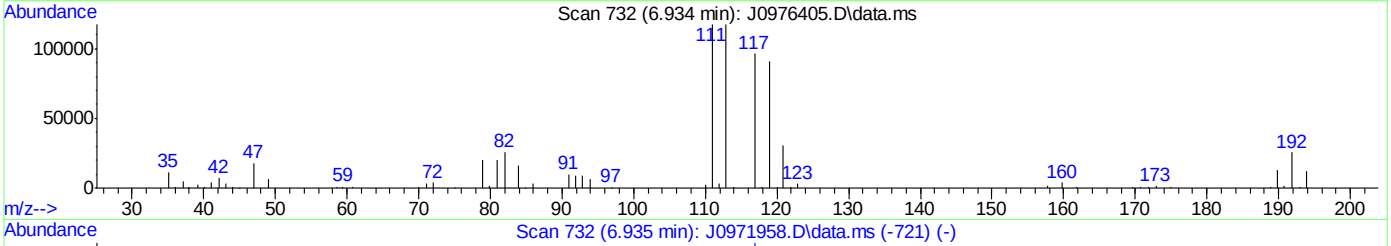
SGS ACCUTEST FA33788

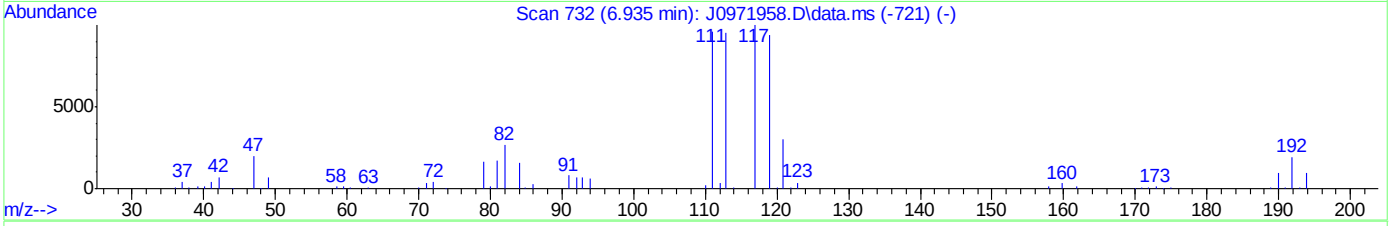
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976405.D
Acq On : 10 May 2016 5:39 pm
Operator : darshnap
Sample : fa33788-1MS MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 12:58:32 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976405.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.000) 31.33ug/L m

response 257289

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.26
120.90	31.80	31.79
82.00	25.40	27.02

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/11/16 16:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976406.D
Acq On : 10 May 2016 6:02 pm
Operator : darshnap
Sample : fa33788-1MSD MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 13:22:01 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1284613	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1064930	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	592974	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	94404	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	331315	50.83	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.66%			
46) 1,2-Dichloroethane-d4	7.482	65	402795	51.09	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.18%			
57) Toluene-d8	9.301	98	1303903	46.54	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 93.08%			
79) 4-Bromofluorobenzene	12.051	95	527888	49.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	181849	23.00	ug/L	100
3) Chloromethane	2.901	50	213244	25.20	ug/L	100
4) Vinyl Chloride	3.047	62	242351	27.96	ug/L	100
5) 1,3-Butadiene	3.029	54	57100	8.86	ug/L	95
6) Bromomethane	3.455	94	149738	23.67	ug/L	97
7) Chloroethane	3.619	64	117237	26.74	ug/L	95
8) Trichlorofluoromethane	3.838	101	321105m	29.86	ug/L	
9) Ethyl Ether	4.118	59	129434	26.06	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.367	67	221859	29.71	ug/L	98
11) 1,1-Dichloroethene	4.404	61	287134	30.87	ug/L	97
12) Freon 113	4.477	101	175191	27.24	ug/L	96
13) Carbon Disulfide	4.477	76	504832	26.07	ug/L	99
14) Iodomethane	4.592	142	283676	27.60	ug/L	99
15) Allyl chloride	4.927	41	173806	20.22	ug/L	95
16) Methylene Chloride	5.049	49	220086	26.14	ug/L	96
17) Acetone	5.073	58	50613	131.38	ug/L	90
18) Methyl acetate	5.195	74	87914	117.19	ug/L	92
19) trans-1,2-Dichloroethene	5.231	61	256852	30.07	ug/L	97
20) Hexane	5.304	56	171979	31.38	ug/L	94
21) Methyl Tert Butyl Ether	5.334	73	758393	44.54	ug/L	77
22) Acetonitrile	5.590	40	60490	248.84	ug/L	96
23) Di-isopropyl ether	5.718	45	498231	25.56	ug/L	98
24) Chloroprene	5.870	53	220520	24.01	ug/L	96
25) 1,1-Dichloroethane	5.894	63	320366	28.09	ug/L	99
26) Acrylonitrile	5.931	53	179879	105.52	ug/L	98
27) ETBE	6.119	59	491099	25.16	ug/L	99
28) Vinyl acetate	6.107	43	1083525	109.75	ug/L	98
29) cis-1,2-Dichloroethene	6.478	96	188883	25.79	ug/L	98
30) 2,2-Dichloropropane	6.606	77	241076	27.08	ug/L	97
31) Bromochloromethane	6.691	128	82737	24.99	ug/L	96
32) Cyclohexane	6.734	56	292802	27.31	ug/L	93
33) Chloroform	6.740	83	326284	25.77	ug/L	100
34) Ethyl acetate	6.807	43	445618	112.26	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976406.D
Acq On : 10 May 2016 6:02 pm
Operator : darshnap
Sample : fa33788-1MSD MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 13:22:01 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.916	42	32684	28.15	ug/L		91
37)	Carbon Tetrachloride	6.934	117	240729m	27.35	ug/L		
38)	1,1,1-Trichloroethane	6.995	97	291454	26.92	ug/L		94
39)	2-Butanone	7.026	43	211697	127.56	ug/L		97
40)	1,1-Dichloropropene	7.105	75	231201	26.44	ug/L		99
41)	tert-Butyl Formate	7.190	59	38896	9.76	ug/L	#	82
42)	Propionitrile	7.330	54	148582	252.39	ug/L		77
43)	Methacrylonitrile	7.360	41	637405	232.68	ug/L		95
44)	Benzene	7.360	78	738690	27.76	ug/L		100
45)	TAME	7.433	73	439027	24.92	ug/L		94
47)	1,2-Dichloroethane	7.549	62	229478	24.63	ug/L		99
48)	Trichloroethene	7.938	95	191550	27.78	ug/L		96
49)	Methylcyclohexane	7.956	83	330339	28.51	ug/L		99
50)	Dibromomethane	8.364	93	95714	24.87	ug/L		97
51)	1,2-Dichloropropane	8.449	63	164961	24.67	ug/L		95
52)	Bromodichloromethane	8.498	83	204921	23.91	ug/L		97
53)	Methyl methacrylate	8.589	41	88187	24.95	ug/L		99
55)	cis-1,3-Dichloropropene	9.112	75	229701	22.45	ug/L		97
58)	Toluene	9.356	91	758888	24.60	ug/L		99
59)	2-Nitropropane	9.556	41	138862	113.08	ug/L		98
60)	4-Methyl-2-pentanone	9.672	43	558933	126.84	ug/L		98
61)	trans-1,3-Dichloropropene	9.739	75	221777	22.88	ug/L		97
62)	Tetrachloroethene	9.757	166	191098	23.18	ug/L		97
63)	Ethyl methacrylate	9.842	69	144490	20.51	ug/L		97
64)	1,1,2-Trichloroethane	9.903	83	119613	23.77	ug/L		97
65)	Dibromochloromethane	10.104	129	134828	21.08	ug/L		98
66)	1,3-Dichloropropane	10.183	76	226070	21.99	ug/L		97
67)	1,2-Dibromoethane	10.366	107	134067	23.51	ug/L		100
68)	2-hexanone	10.487	43	383183	131.51	ug/L		97
69)	1-Chlorohexane	10.797	91	236635	26.16	ug/L		98
70)	Ethylbenzene	10.858	91	950130	27.02	ug/L		99
71)	Chlorobenzene	10.864	112	546853	26.66	ug/L		96
72)	1,1,1,2-Tetrachloroethane	10.913	131	173005	25.93	ug/L		98
73)	m,p-Xylene	10.998	91	1427292	50.20	ug/L		99
74)	o-Xylene	11.436	91	693555	25.52	ug/L		100
75)	Styrene	11.485	104	479178	21.93	ug/L		98
76)	Bromoform	11.546	173	81576	20.40	ug/L		97
77)	Isopropylbenzene	11.740	105	887123	28.25	ug/L		100
80)	cis-1,4-Dichloro-2-butene	12.087	53	22207	11.52	ug/L		95
81)	n-Propylbenzene	12.160	91	1069990	28.44	ug/L		99
82)	Bromobenzene	12.185	156	226323	25.55	ug/L		99
83)	1,1,2,2-Tetrachloroethane	12.221	83	182041	25.46	ug/L		100
84)	1,3,5-Trimethylbenzene	12.343	105	758523	26.64	ug/L		97
85)	2-Chlorotoluene	12.349	91	754027	27.30	ug/L		99
86)	trans-1,4-Dichloro-2-B...	12.397	53	24020	13.40	ug/L	#	50
87)	1,2,3-Trichloropropane	12.379	110	49312	27.06	ug/L		95
88)	Cyclohexanone	12.446	55	18607	162.38	ug/L		93
89)	4-Chlorotoluene	12.519	91	677687	27.41	ug/L		99
90)	a-Methyl Styrene	12.756	118	8262	1.02	ug/L	#	1
91)	tert-Butylbenzene	12.683	91	443614	26.67	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976406.D
Acq On : 10 May 2016 6:02 pm
Operator : darshnap
Sample : fa33788-1MSD MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 13:22:01 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.750	105	756877	26.62 ug/L	99
93) Pentachloroethane	12.738	167	132110	24.33 ug/L	95
94) sec-Butylbenzene	12.866	105	986787	28.70 ug/L	99
95) 4-Isopropyltoluene	13.000	119	812737	28.18 ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	408060	25.97 ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	426852	25.60 ug/L	96
98) n-Butylbenzene	13.432	92	440330	26.49 ug/L	98
99) Benzyl Chloride	13.444	126	51845	21.99 ug/L #	17
100) 1,2-Dichlorobenzene	13.645	146	370938	24.67 ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	23071	21.29 ug/L	94
102) Hexachlorobutadiene	14.928	225	173989	25.90 ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	258192	23.52 ug/L	97
104) Naphthalene	15.257	128	432689	23.50 ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	221367	22.75 ug/L	97
107) Ethanol	4.276	45	14883m	330.61 ug/L	
108) acrolein	4.763	56	83378	75.54 ug/L	99
109) Tert Butyl Alcohol	5.377	59	227420	497.00 ug/L	94
110) tert Amyl alcohol	7.573	59	86897	270.74 ug/L	96
111) Isobutyl alcohol	7.452	42	69077	381.69 ug/L	95
112) 1,4-Dioxane	8.668	88	443102	11820.45 ug/L	96
113) 3,3-Dimethyl-1-butanol	10.432	57	498015	1266.57 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.4.2

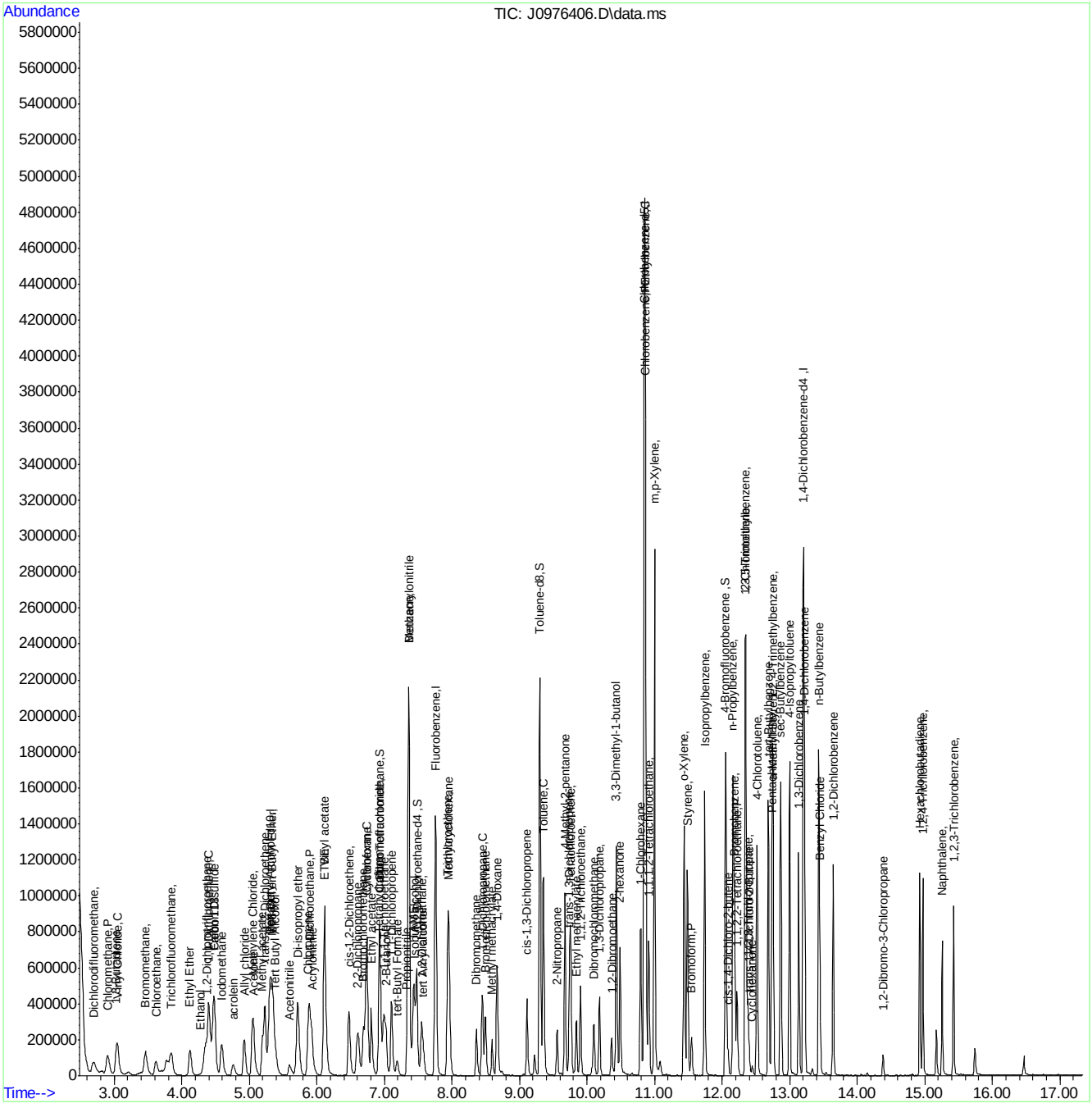
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976406.D
Acq On : 10 May 2016 6:02 pm
Operator : darshnap
Sample : fa33788-1MSD MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 13:22:01 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

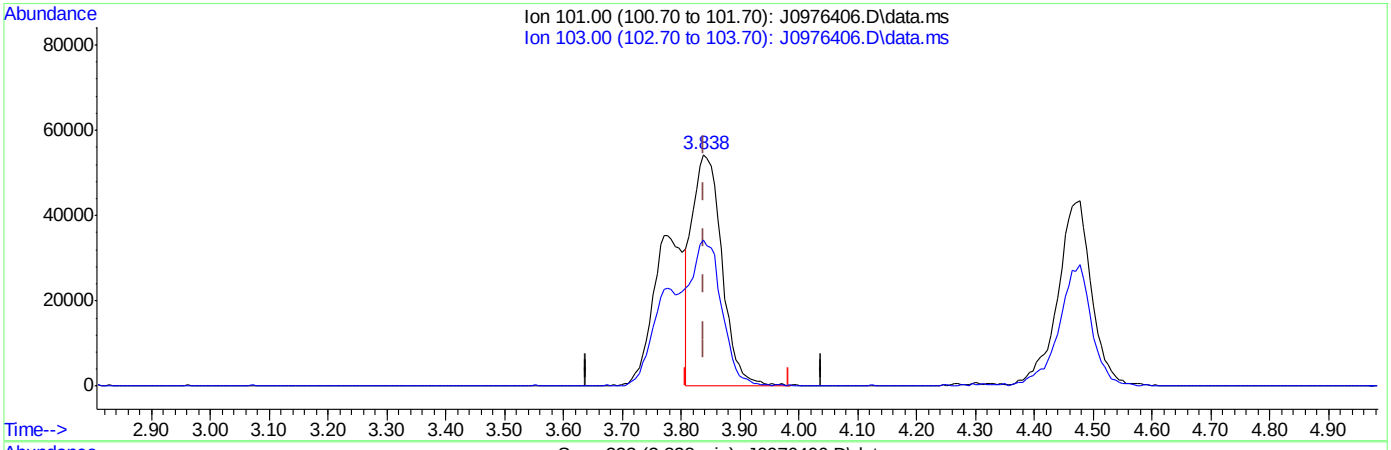
Sample Number:	FA33788-1MSD	**Method:**	SW846 8260C
Lab FileID:	J0976406.D	**Analyst approved:**	05/11/16 16:21 Trang Diep
Injection Time:	05/10/16 18:02	**Supervisor approved:**	05/11/16 16:21 Juan Garcia

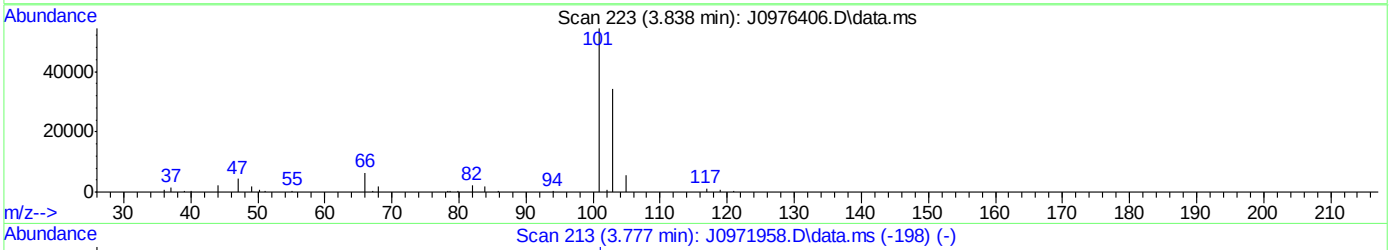
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

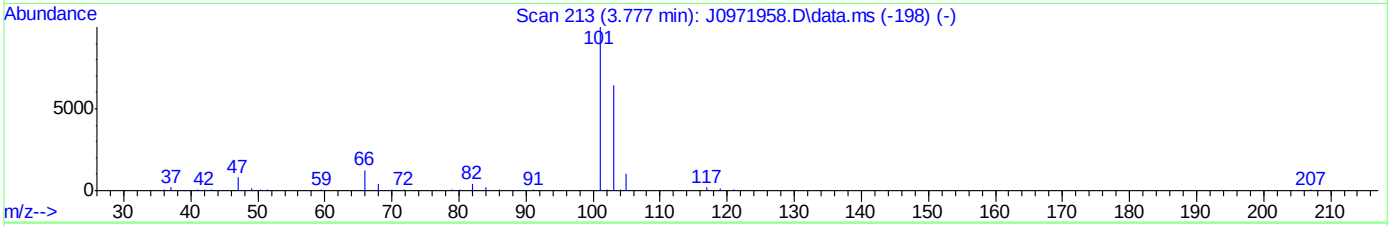
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976406.D
Acq On : 10 May 2016 6:02 pm
Operator : darshnap
Sample : fa33788-1MSD MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 12:58:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976406.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 17.72ug/L

response 190553

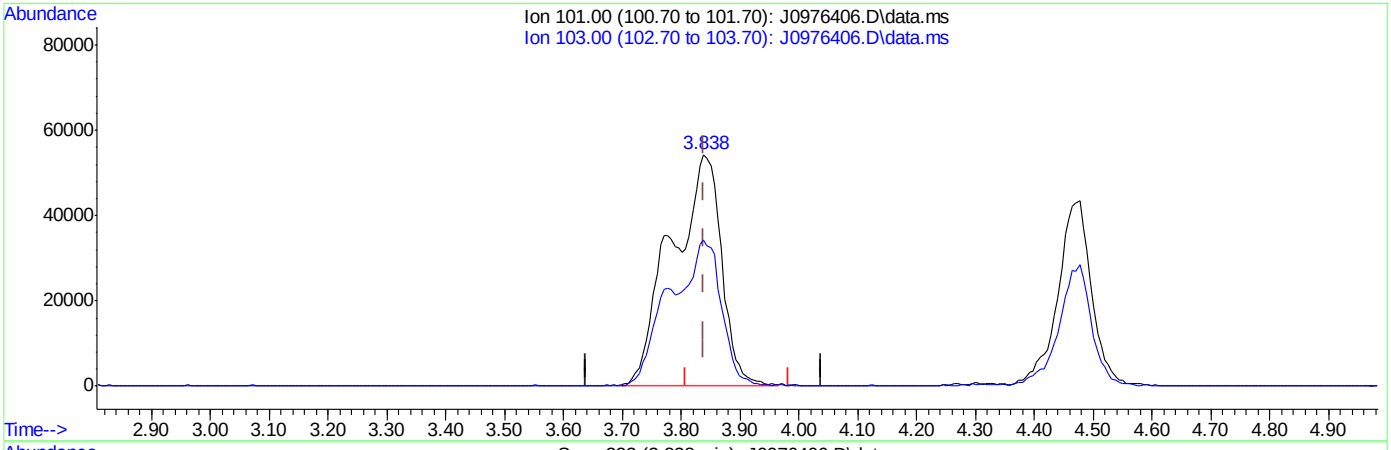
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.64
0.00	0.00	0.00
0.00	0.00	0.00

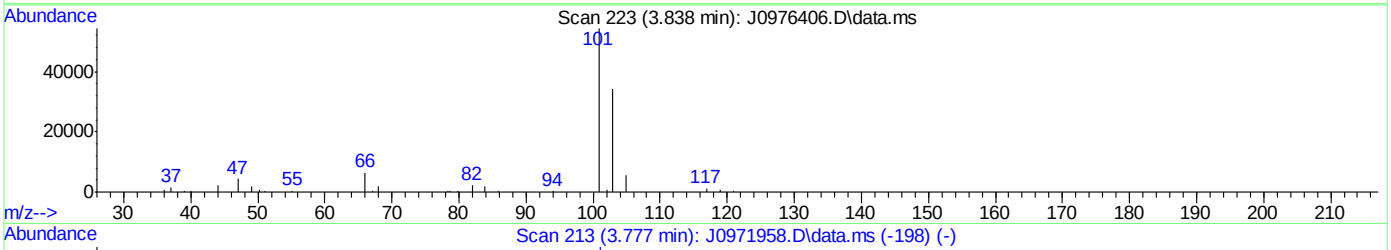
SGS ACCUTEST FA33788

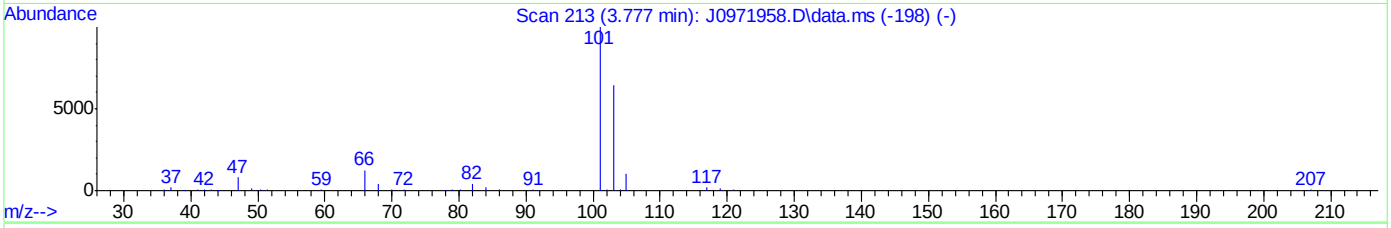
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976406.D
Acq On : 10 May 2016 6:02 pm
Operator : darshnap
Sample : fa33788-1MSD MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 12:58:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976406.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 29.86ug/L m

response 321105

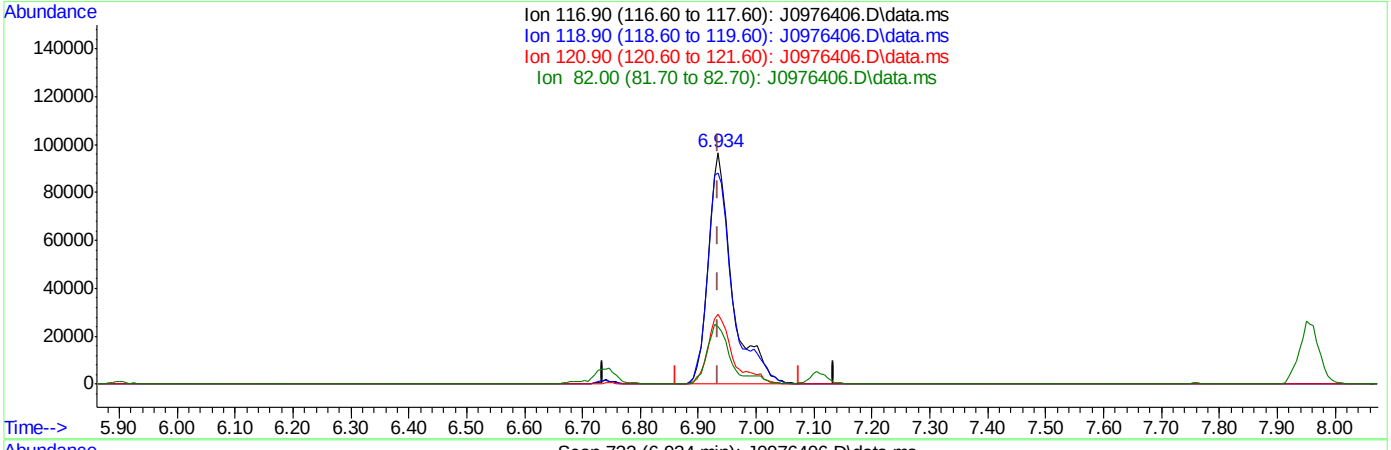
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.14
0.00	0.00	0.00
0.00	0.00	0.00

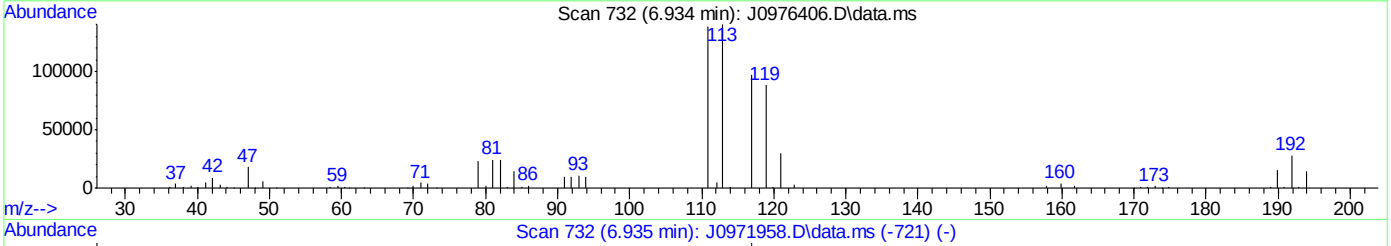
SGS ACCUTEST FA33788

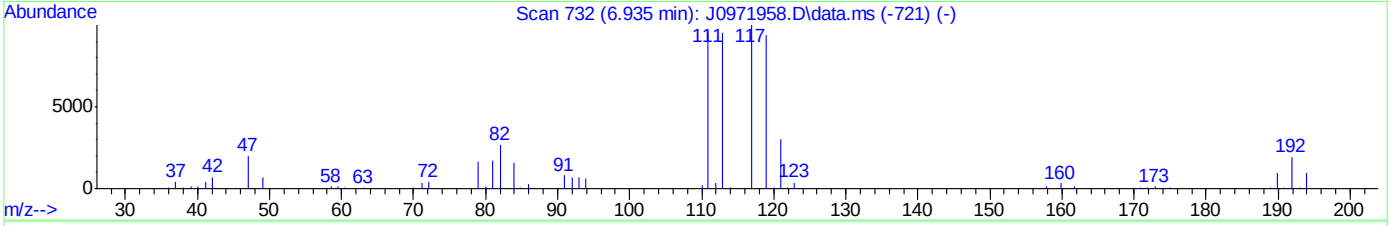
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976406.D
Acq On : 10 May 2016 6:02 pm
Operator : darshnap
Sample : fa33788-1MSD MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 12:58:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976406.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 31.57ug/L

response 277884

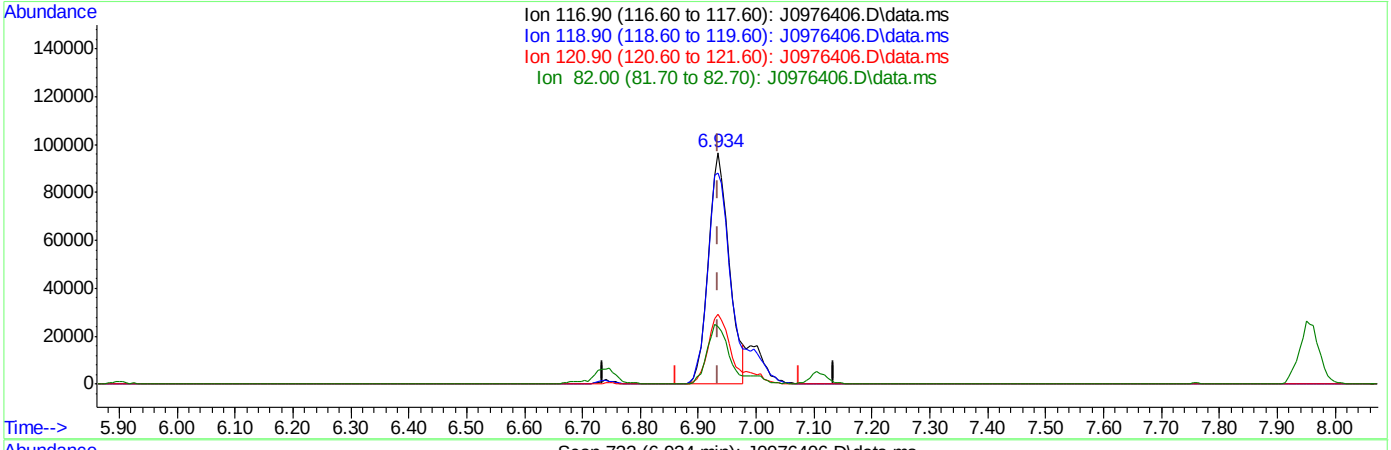
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	91.02
120.90	31.80	30.35
82.00	25.40	24.78

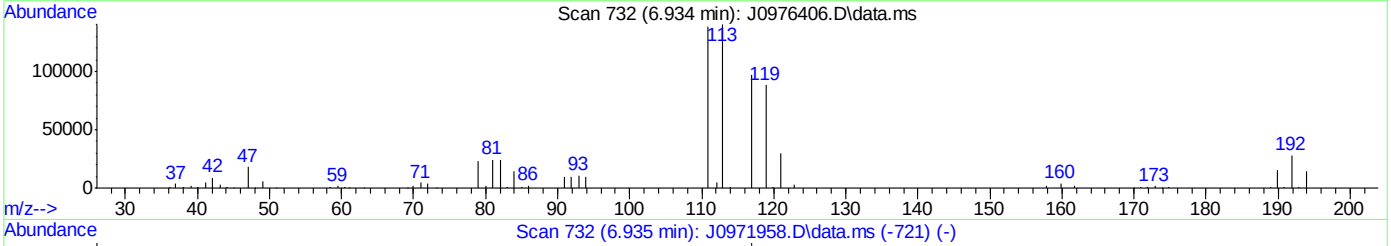
SGS ACCUTEST FA33788

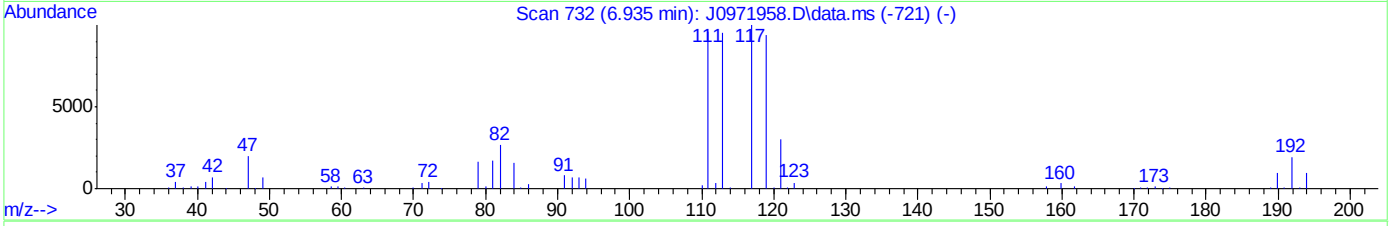
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976406.D
Acq On : 10 May 2016 6:02 pm
Operator : darshnap
Sample : fa33788-1MSD MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 12:58:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976406.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 27.35ug/L m

response 240729

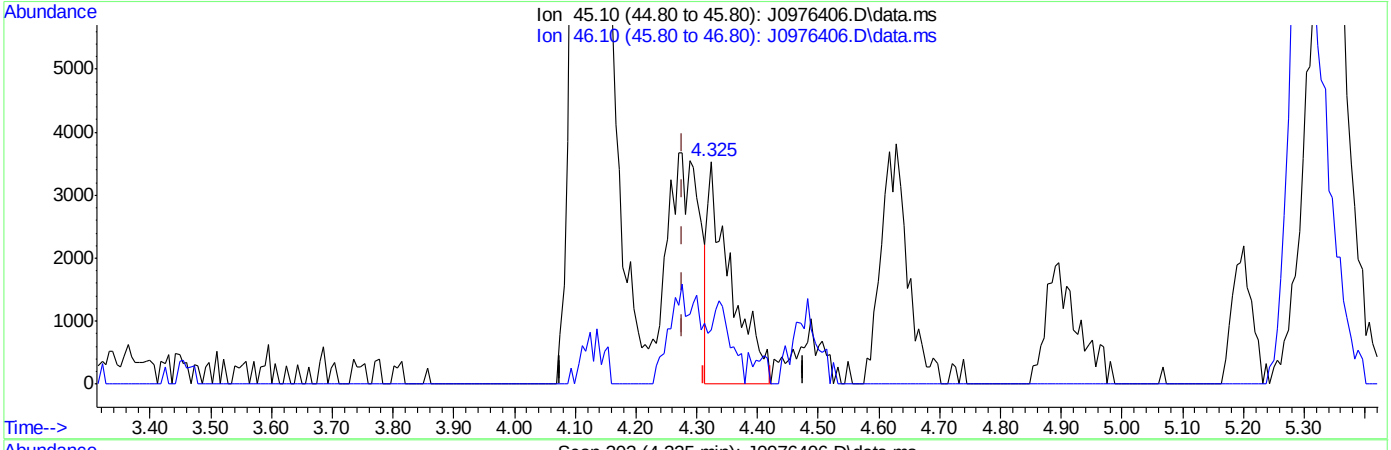
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	91.02
120.90	31.80	30.35
82.00	25.40	24.78

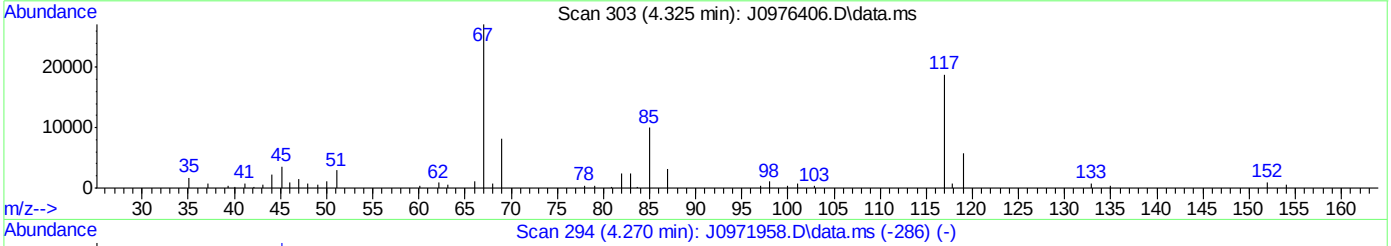
SGS ACCUTEST FA33788

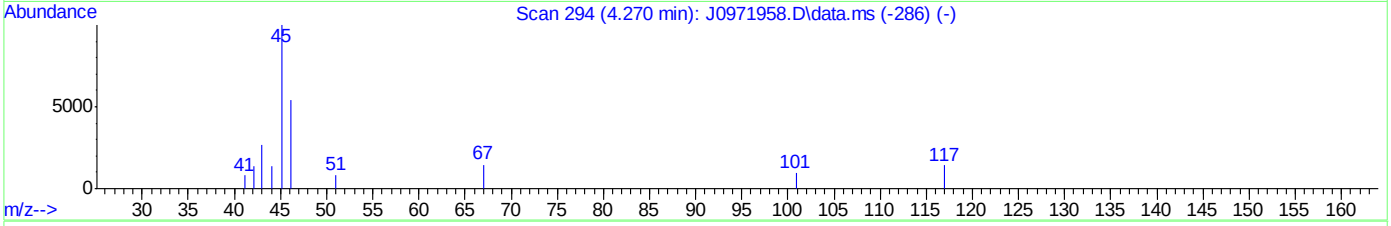
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976406.D
Acq On : 10 May 2016 6:02 pm
Operator : darshnap
Sample : fa33788-1MSD MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 12:58:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976406.D\data.ms

(107) Ethanol

4.325min (+0.049) 205.79ug/L

response 9396

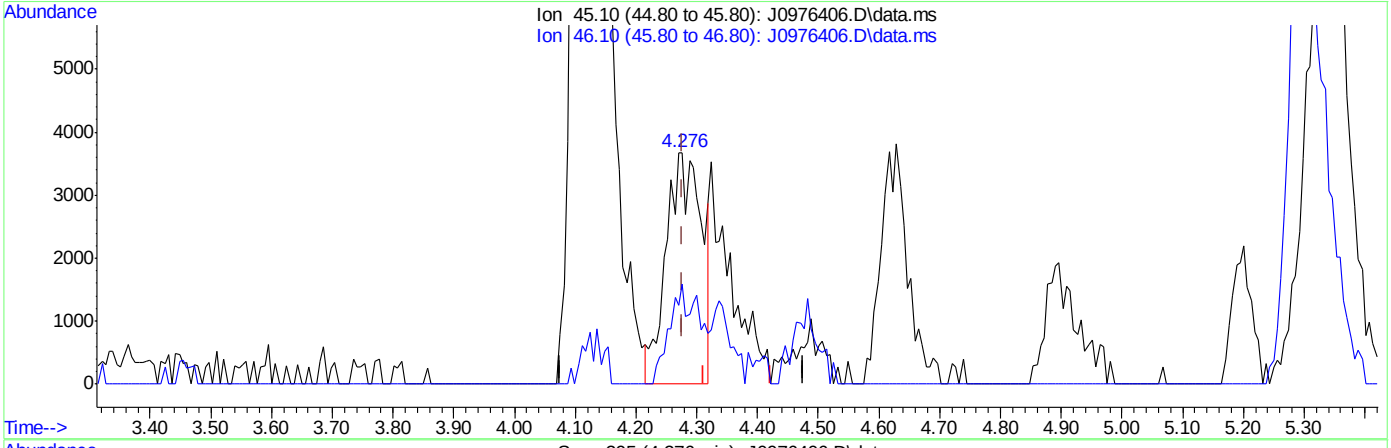
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	24.54
0.00	0.00	0.00
0.00	0.00	0.00

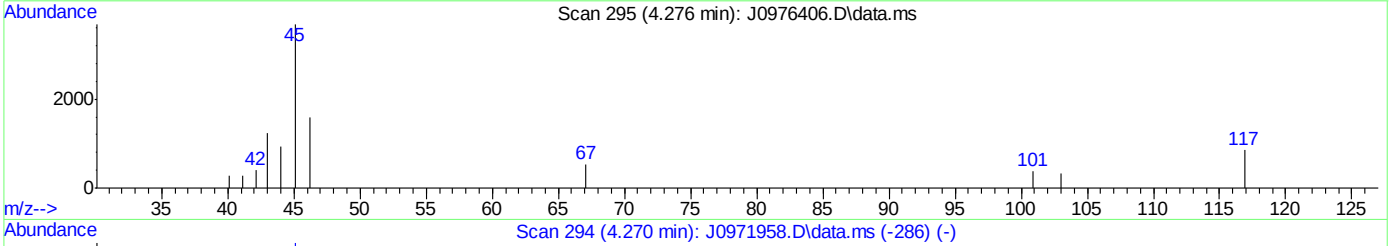
SGS ACCUTEST FA33788

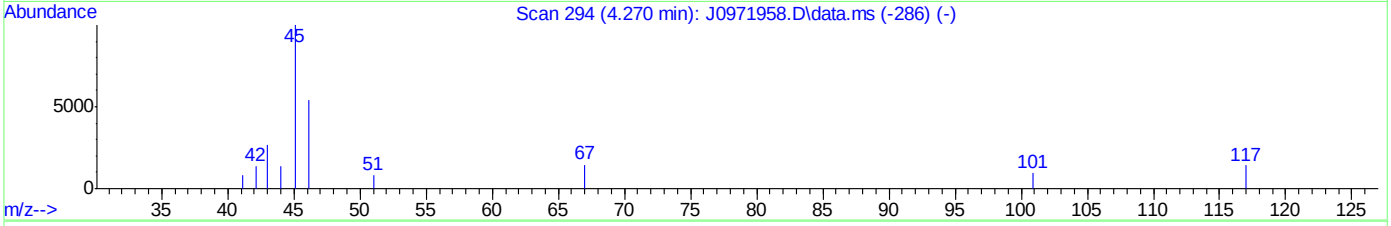
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976406.D
Acq On : 10 May 2016 6:02 pm
Operator : darshnap
Sample : fa33788-1MSD MA Inst : MSVOA6
Misc : MS33829,VJ5292,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 11 12:58:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976406.D\data.ms

(107) Ethanol

4.276min (-0.000) 330.61ug/L m

response 14883

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	43.30
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/16/16 11:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:37 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	1495826	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	1120057	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	571898	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.572	65	62785	250.00	ug/Kg	0.05
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	396658	45.34	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 90.68%			
44) 1,2-Dichloroethane-d4	6.616	65	399129	40.20	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 80.40%			
55) Toluene-d8	8.453	98	1504948	46.28	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 92.56%			
77) 4-Bromofluorobenzene	11.227	174	404459	54.36	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 108.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.224	85	680158	40.29	ug/Kg	99
3) Chloromethane	2.412	50	766960	48.21	ug/Kg	100
4) Vinyl Chloride	2.528	62	640270	48.08	ug/Kg	99
5) Bromomethane	2.868	94	172409	30.19	ug/Kg	92
6) Chloroethane	3.002	64	87770	17.54	ug/Kg	93
7) Trichlorofluoromethane	3.148	101	212686	12.46	ug/Kg	96
8) Ethyl Ether	3.452	59	222957	33.15	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.671	67	385677	36.27	ug/Kg	96
10) 1,1-Dichloroethene	3.659	61	542701	35.20	ug/Kg	91
11) Freon 113	3.720	101	334082	34.96	ug/Kg	98
12) Carbon Disulfide	3.702	76	983382	32.83	ug/Kg	91
13) Iodomethane	3.817	142	679477	39.74	ug/Kg	84
14) Allyl chloride	4.140	41	392670	28.96	ug/Kg	83
15) Methylene Chloride	4.249	49	434867	37.58	ug/Kg	97
16) Acetone	4.322	43	286224	142.31	ug/Kg	87
17) Methyl acetate	4.426	43	917958	248.64	ug/Kg	96
18) trans-1,2-Dichloroethene	4.414	61	523196	41.23	ug/Kg	96
19) Hexane	4.474	56	235636	34.28	ug/Kg#	83
20) Methyl Tert Butyl Ether	4.523	73	968573	39.29	ug/Kg	91
21) Acetonitrile	4.803	41	179732	317.46	ug/Kg	89
22) Di-isopropyl ether	4.888	45	1100829	44.32	ug/Kg	96
23) Chloroprene	5.016	53	645321	36.19	ug/Kg	87
24) 1,1-Dichloroethane	5.046	63	751217	45.14	ug/Kg	97
25) Acrylonitrile	5.113	52	376161	209.04	ug/Kg	90
26) ETBE	5.259	59	1125489	43.35	ug/Kg	93
27) Vinyl acetate	5.277	43	2240215	193.36	ug/Kg	94
28) cis-1,2-Dichloroethene	5.594	96	529043	45.53	ug/Kg	95
29) 2,2-Dichloropropane	5.703	77	432304	36.50	ug/Kg	93
30) Bromochloromethane	5.807	128	230305	44.59	ug/Kg	94
31) Cyclohexane	5.807	84	656872	42.08	ug/Kg	93
32) Chloroform	5.868	83	813413	43.92	ug/Kg	98
33) Ethyl acetate	5.971	43	1019907	222.19	ug/Kg	100
34) Tetrahydrofuran	6.050	42	62701	47.55	ug/Kg	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:37 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.014	117	727852	39.94	ug/Kg	98
37)	1,1,1-Trichloroethane	6.093	97	654198	37.80	ug/Kg	94
38)	2-Butanone	6.190	43	512927	193.27	ug/Kg	89
39)	1,1-Dichloropropene	6.208	75	613737	45.32	ug/Kg	92
40)	Propionitrile	6.512	54	343261	432.06	ug/Kg#	65
41)	Methacrylonitrile	6.525	41	1357069	415.11	ug/Kg	94
42)	Benzene	6.470	78	1716543	47.04	ug/Kg	93
43)	TAME	6.567	73	1013914	43.83	ug/Kg	93
45)	1,2-Dichloroethane	6.683	62	545120	42.54	ug/Kg	93
46)	Trichloroethene	7.054	95	464046	46.45	ug/Kg	96
47)	Methylcyclohexane	7.048	83	736188	44.62	ug/Kg	97
48)	Dibromomethane	7.492	93	269970	47.16	ug/Kg	92
49)	1,2-Dichloropropane	7.589	63	393064	46.63	ug/Kg	76
50)	Bromodichloromethane	7.644	83	564715	45.03	ug/Kg	98
51)	Methyl methacrylate	7.772	41	193783	46.39	ug/Kg	87
52)	2-Chloroethyl vinyl ether	8.192	63	884475	268.20	ug/Kg	94
53)	cis-1,3-Dichloropropene	8.271	75	682410	58.22	ug/Kg	87
56)	Toluene	8.502	91	1801971	47.56	ug/Kg	95
57)	2-Nitropropane	8.745	41	351864	182.52	ug/Kg	92
58)	4-Methyl-2-pentanone	8.873	43	1234174	190.12	ug/Kg	94
59)	trans-1,3-Dichloropropene	8.915	75	520488	55.75	ug/Kg	91
60)	Tetrachloroethene	8.891	166	482576	50.60	ug/Kg	94
61)	Ethyl methacrylate	9.043	69	319422	40.57	ug/Kg	91
62)	1,1,2-Trichloroethane	9.080	83	288736	48.03	ug/Kg	92
63)	Dibromochloromethane	9.262	129	420526	50.53	ug/Kg	93
64)	1,3-Dichloropropane	9.360	76	538220	49.38	ug/Kg	91
65)	1,2-Dibromoethane	9.512	107	336000	52.69	ug/Kg	95
66)	2-hexanone	9.700	43	718739	185.93	ug/Kg	92
67)	1-Chlorohexane	9.974	91	565214	47.15	ug/Kg	90
68)	Ethylbenzene	10.035	91	1845754	46.46	ug/Kg	95
69)	Chlorobenzene	10.023	112	1140644	50.98	ug/Kg	93
70)	1,1,1,2-Tetrachloroethane	10.084	131	493123	47.80	ug/Kg	92
71)	m,p-Xylene	10.175	91	2776587	95.85	ug/Kg	89
72)	o-Xylene	10.613	91	1724903	45.64	ug/Kg	92
73)	Styrene	10.668	104	1148432	52.15	ug/Kg	94
74)	Bromoform	10.716	173	205234	50.64	ug/Kg	94
75)	Isopropylbenzene	10.923	105	2090932	47.41	ug/Kg	95
78)	cis-1,4-Dichloro-2-butene	11.288	53	68347	36.21	ug/Kg#	76
79)	n-Propylbenzene	11.343	91	2202712	42.85	ug/Kg	97
80)	Bromobenzene	11.343	156	468506	51.57	ug/Kg	94
81)	1,1,2,2-Tetrachloroethane	11.422	83	438000	42.68	ug/Kg	99
82)	1,3,5-Trimethylbenzene	11.531	105	1675116	41.03	ug/Kg	92
83)	2-Chlorotoluene	11.519	91	1600293	46.53	ug/Kg	96
84)	trans-1,4-Dichloro-2-B...	11.604	53	72969	44.30	ug/Kg#	69
85)	1,2,3-Trichloropropane	11.574	110	111660	41.40	ug/Kg	96
86)	Cyclohexanone	11.635	55	56250	198.97	ug/Kg	97
87)	4-Chlorotoluene	11.690	91	1415065	50.13	ug/Kg	93
88)	tert-Butylbenzene	11.866	91	1124420	40.14	ug/Kg	88
89)	1,2,4-Trimethylbenzene	11.939	105	1696790	42.14	ug/Kg	93
90)	Pentachloroethane	11.909	167	283053	45.99	ug/Kg	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:37 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

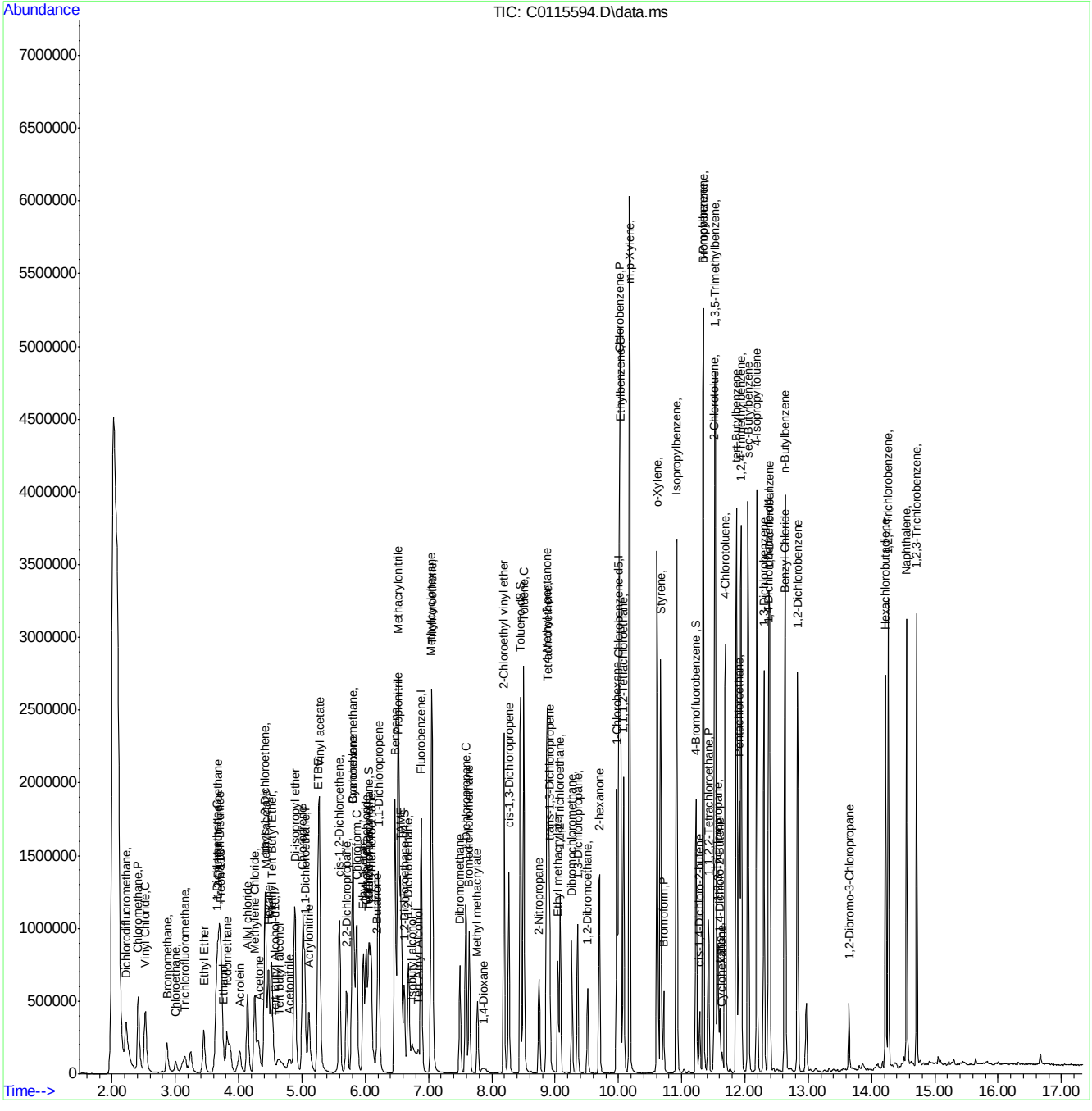
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.049	105	2246162	44.99	ug/Kg	99
92)	4-Isopropyltoluene	12.188	119	1860846	43.33	ug/Kg	96
93)	1,3-Dichlorobenzene	12.298	146	948410	52.80	ug/Kg	96
94)	1,4-Dichlorobenzene	12.389	146	885598	51.14	ug/Kg	95
95)	n-Butylbenzene	12.626	92	1014593	43.69	ug/Kg	96
96)	Benzyl Chloride	12.639	126	155460	44.49	ug/Kg#	76
97)	1,2-Dichlorobenzene	12.833	146	941000	51.35	ug/Kg	95
98)	1,2-Dibromo-3-Chloropr...	13.642	75	86141	36.01	ug/Kg	95
99)	Hexachlorobutadiene	14.220	225	351236	43.43	ug/Kg	94
100)	1,2,4-Trichlorobenzene	14.263	180	670280	51.08	ug/Kg	98
101)	Naphthalene	14.555	128	1608178	47.01	ug/Kg	97
102)	1,2,3-Trichlorobenzene	14.713	180	657471	48.84	ug/Kg	94
104)	Ethanol	3.763	45	37344m	1991.17	ug/Kg	
105)	Acrolein	4.018	56	182646	463.87	ug/Kg	97
106)	Tert butyl alcohol	4.645	59	290585	909.97	ug/Kg	69
107)	Isobutyl alcohol	6.738	42	57622	941.42	ug/Kg#	79
108)	Tert Amyl Alcohol	6.835	59	255070	1065.09	ug/Kg	97
109)	1,4-Dioxane	7.875	88	62662	2422.62	ug/Kg	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:37 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



Manual Integration Approval Summary

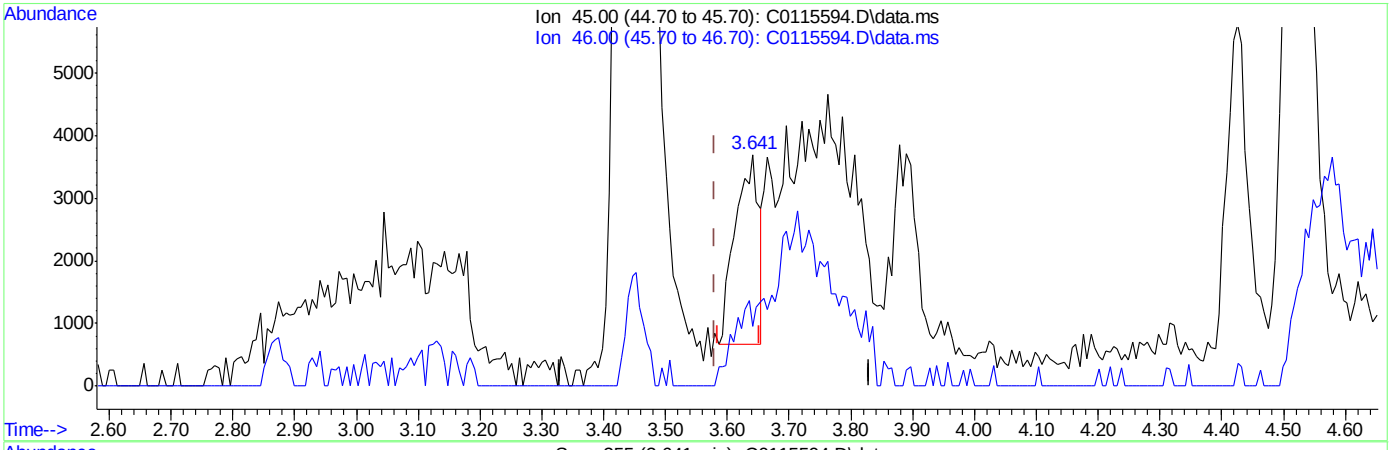
Sample Number:	FA33788-8MS	**Method:**	SW846 8260C
Lab FileID:	C0115594.D	**Analyst approved:**	05/16/16 10:08 Eric Parrish
Injection Time:	05/12/16 18:24	**Supervisor approved:**	05/16/16 11:38 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.76	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:12 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



TIC: C0115594.D\data.ms

(104) Ethanol

3.641min (+0.061) 419.63ug/Kg

response 7870

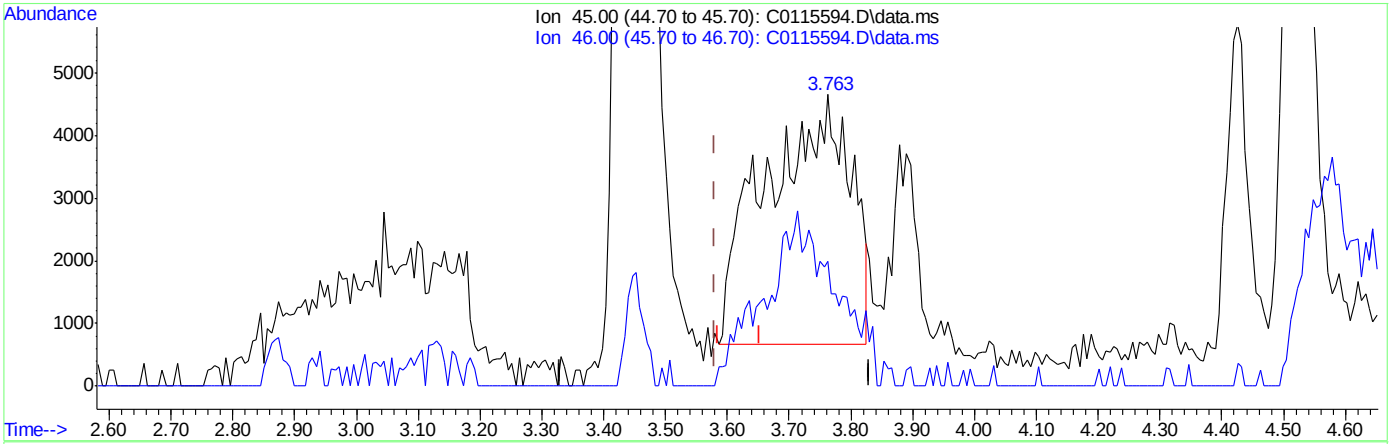
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	21.58
0.00	0.00	0.00
0.00	0.00	0.00

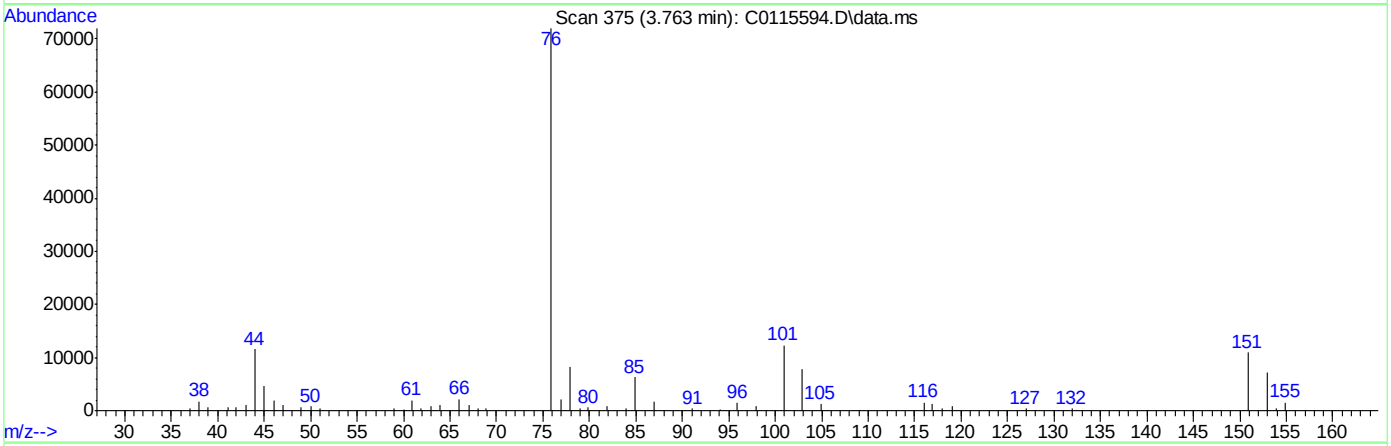
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115594.D
Acq On : 12 May 2016 6:24 pm
Operator : ericp
Sample : FA33788-8MS MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 13 07:35:12 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration





TIC: C0115594.D\data.ms

(104) Ethanol

3.763min (+0.182) 1991.17ug/Kg m

response 37344

Ion	Exp%	Act%
45.00	100	100
46.00	30.00	42.98
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/16/16 11:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:36:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	1457986	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	1026947	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	518562	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.547	65	73669	250.00	ug/Kg	0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	398072	46.68	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.36%			
44) 1,2-Dichloroethane-d4	6.616	65	398857	41.22	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 82.44%			
55) Toluene-d8	8.453	98	1452397	48.72	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.44%			
77) 4-Bromofluorobenzene	11.227	174	368576	54.63	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 109.26%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.224	85	681706	41.43	ug/Kg	97
3) Chloromethane	2.412	50	767207	49.48	ug/Kg	99
4) Vinyl Chloride	2.528	62	642682	49.51	ug/Kg	99
5) Bromomethane	2.868	94	170962	30.73	ug/Kg	96
6) Chloroethane	3.002	64	85855	17.61	ug/Kg	89
7) Trichlorofluoromethane	3.173	101	247276	14.86	ug/Kg	99
8) Ethyl Ether	3.446	59	221298	33.76	ug/Kg	92
9) 1,2-Dichlorotrifluoroe...	3.665	67	377478	36.43	ug/Kg	95
10) 1,1-Dichloroethene	3.653	61	536281	35.71	ug/Kg	92
11) Freon 113	3.714	101	333254	35.80	ug/Kg	94
12) Carbon Disulfide	3.702	76	987246	33.86	ug/Kg	89
13) Iodomethane	3.817	142	680296	40.82	ug/Kg	84
14) Allyl chloride	4.140	41	392612	29.73	ug/Kg	82
15) Methylene Chloride	4.255	49	410470	36.34	ug/Kg	91
16) Acetone	4.316	43	289260	147.68	ug/Kg	87
17) Methyl acetate	4.420	43	917365	255.41	ug/Kg	95
18) trans-1,2-Dichloroethene	4.414	61	513763	41.55	ug/Kg	94
19) Hexane	4.468	56	235213	35.12	ug/Kg#	82
20) Methyl Tert Butyl Ether	4.517	73	973570	40.52	ug/Kg	92
21) Acetonitrile	4.797	41	177312	321.45	ug/Kg	96
22) Di-isopropyl ether	4.888	45	1113934	46.01	ug/Kg	95
23) Chloroprene	5.010	53	665204	38.27	ug/Kg	85
24) 1,1-Dichloroethane	5.046	63	761353	47.04	ug/Kg	96
25) Acrylonitrile	5.107	52	399501	227.77	ug/Kg	93
26) ETBE	5.253	59	1150902	45.48	ug/Kg	95
27) Vinyl acetate	5.277	43	2219685	196.74	ug/Kg	94
28) cis-1,2-Dichloroethene	5.594	96	542932	47.94	ug/Kg	93
29) 2,2-Dichloropropane	5.703	77	456290	39.71	ug/Kg	94
30) Bromochloromethane	5.801	128	242398	48.14	ug/Kg	92
31) Cyclohexane	5.801	84	677007	44.50	ug/Kg	94
32) Chloroform	5.868	83	828026	45.94	ug/Kg	97
33) Ethyl acetate	5.971	43	980409	219.12	ug/Kg	98
34) Tetrahydrofuran	6.050	42	63181	49.20	ug/Kg	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:36:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.014	117	738269	41.57	ug/Kg	99
37)	1,1,1-Trichloroethane	6.093	97	662023	39.30	ug/Kg	96
38)	2-Butanone	6.190	43	506398	195.76	ug/Kg	89
39)	1,1-Dichloropropene	6.208	75	627143	47.51	ug/Kg	89
40)	Propionitrile	6.506	54	332287	428.94	ug/Kg	96
41)	Methacrylonitrile	6.525	41	1333474	418.48	ug/Kg	93
42)	Benzene	6.470	78	1705732	47.95	ug/Kg	92
43)	TAME	6.561	73	1022924	45.37	ug/Kg	93
45)	1,2-Dichloroethane	6.683	62	531656	42.56	ug/Kg	94
46)	Trichloroethene	7.054	95	458464	47.08	ug/Kg	97
47)	Methylcyclohexane	7.048	83	737714	45.87	ug/Kg	98
48)	Dibromomethane	7.492	93	259488	46.50	ug/Kg	93
49)	1,2-Dichloropropane	7.589	63	377236	45.92	ug/Kg	77
50)	Bromodichloromethane	7.644	83	564309	46.17	ug/Kg	96
51)	Methyl methacrylate	7.772	41	206509	50.58	ug/Kg	88
52)	2-Chloroethyl vinyl ether	8.192	63	781913	242.64	ug/Kg	93
53)	cis-1,3-Dichloropropene	8.271	75	626674	54.85	ug/Kg	87
56)	Toluene	8.502	91	1694554	48.78	ug/Kg	96
57)	2-Nitropropane	8.745	41	335664	189.90	ug/Kg	94
58)	4-Methyl-2-pentanone	8.873	43	1254263	210.73	ug/Kg	93
59)	trans-1,3-Dichloropropene	8.915	75	448132	52.35	ug/Kg	85
60)	Tetrachloroethene	8.891	166	478324	54.71	ug/Kg	98
61)	Ethyl methacrylate	9.043	69	302826	41.93	ug/Kg	93
62)	1,1,2-Trichloroethane	9.080	83	267586	48.54	ug/Kg	92
63)	Dibromochloromethane	9.262	129	387391	50.77	ug/Kg	93
64)	1,3-Dichloropropane	9.360	76	483787	48.41	ug/Kg	90
65)	1,2-Dibromoethane	9.512	107	291626	49.88	ug/Kg	97
66)	2-hexanone	9.700	43	667180	188.33	ug/Kg	94
67)	1-Chlorohexane	9.974	91	521997	47.50	ug/Kg	89
68)	Ethylbenzene	10.035	91	1756621	48.23	ug/Kg	92
69)	Chlorobenzene	10.023	112	1021190	49.78	ug/Kg	94
70)	1,1,1,2-Tetrachloroethane	10.084	131	471031	49.80	ug/Kg	89
71)	m,p-Xylene	10.175	91	2614087	98.42	ug/Kg	90
72)	o-Xylene	10.613	91	1649970	47.72	ug/Kg	92
73)	Styrene	10.668	104	1038132	51.41	ug/Kg	94
74)	Bromoform	10.716	173	188002	50.59	ug/Kg	96
75)	Isopropylbenzene	10.923	105	1982139	49.10	ug/Kg	95
78)	cis-1,4-Dichloro-2-butene	11.288	53	59442	34.71	ug/Kg#	78
79)	n-Propylbenzene	11.343	91	2030484	43.63	ug/Kg	94
80)	Bromobenzene	11.343	156	425559	51.66	ug/Kg	99
81)	1,1,2,2-Tetrachloroethane	11.422	83	414366	44.53	ug/Kg	98
82)	1,3,5-Trimethylbenzene	11.531	105	1614215	43.80	ug/Kg	93
83)	2-Chlorotoluene	11.519	91	1490366	47.79	ug/Kg	97
84)	trans-1,4-Dichloro-2-B...	11.604	53	60770	40.69	ug/Kg#	73
85)	1,2,3-Trichloropropane	11.574	110	109190	44.65	ug/Kg	97
86)	Cyclohexanone	11.635	55	52765	205.84	ug/Kg	96
87)	4-Chlorotoluene	11.690	91	1241656	48.51	ug/Kg	96
88)	tert-Butylbenzene	11.866	91	1057637	41.71	ug/Kg	88
89)	1,2,4-Trimethylbenzene	11.939	105	1585695	43.53	ug/Kg	93
90)	Pentachloroethane	11.909	167	266081	47.68	ug/Kg	91

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:36:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

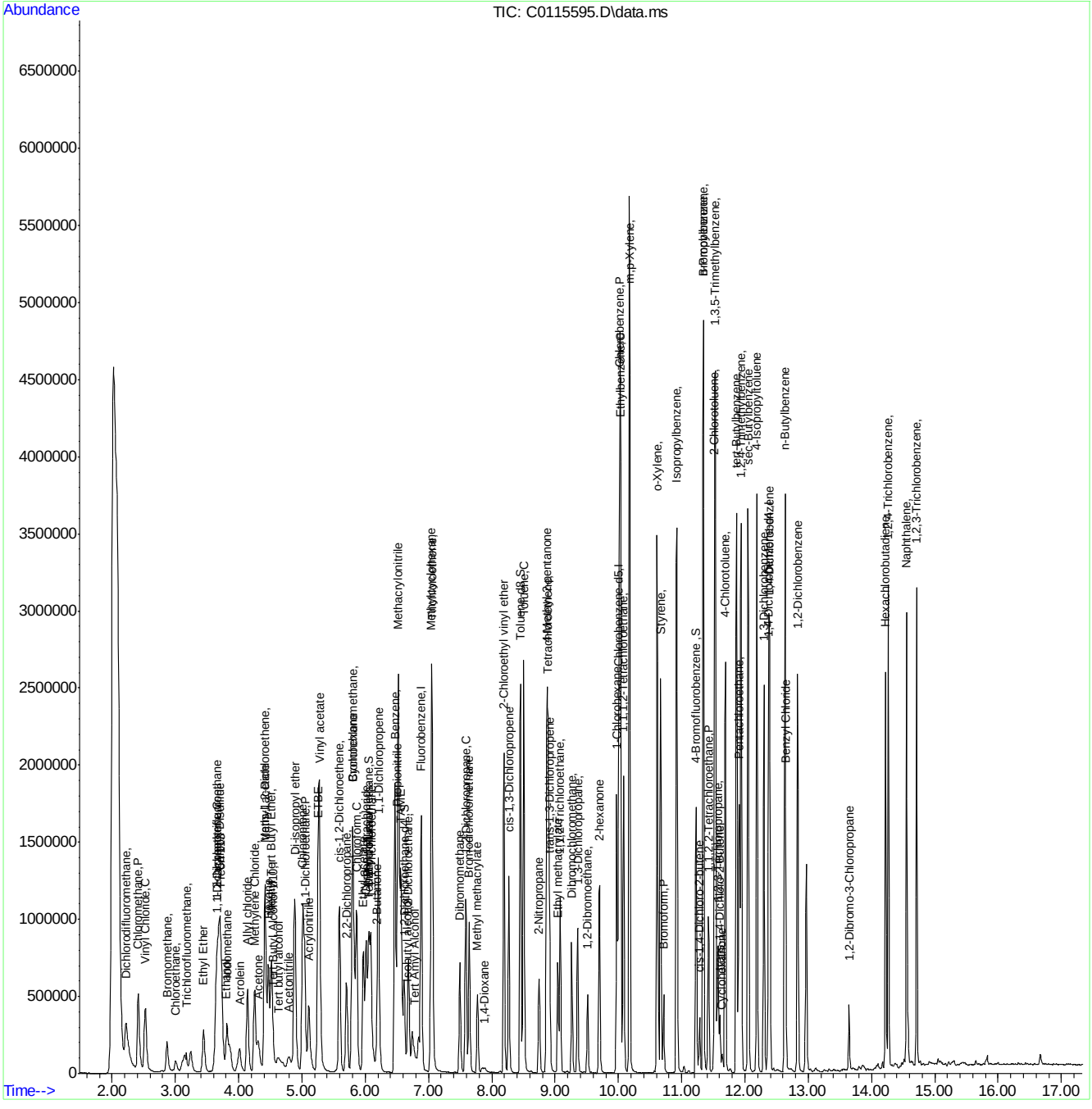
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.049	105	2095297	46.37	ug/Kg	99
92)	4-Isopropyltoluene	12.188	119	1731491	44.55	ug/Kg	97
93)	1,3-Dichlorobenzene	12.298	146	840987	51.63	ug/Kg	97
94)	1,4-Dichlorobenzene	12.389	146	809878	51.58	ug/Kg	96
95)	n-Butylbenzene	12.633	92	933607	44.38	ug/Kg	95
96)	Benzyl Chloride	12.645	126	139961	44.18	ug/Kg#	51
97)	1,2-Dichlorobenzene	12.833	146	870677	52.39	ug/Kg	98
98)	1,2-Dibromo-3-Chloropr...	13.642	75	81104	37.39	ug/Kg	94
99)	Hexachlorobutadiene	14.220	225	337895	46.08	ug/Kg	94
100)	1,2,4-Trichlorobenzene	14.263	180	640429	53.82	ug/Kg	98
101)	Naphthalene	14.555	128	1584014	51.20	ug/Kg	97
102)	1,2,3-Trichlorobenzene	14.713	180	638767	52.33	ug/Kg	96
104)	Ethanol	3.799	45	36716m	1668.45	ug/Kg	
105)	Acrolein	4.018	56	183464	397.10	ug/Kg	94
106)	Tert butyl alcohol	4.633	59	248922	664.33	ug/Kg	78
107)	Isobutyl alcohol	6.665	42	51139	712.06	ug/Kg	81
108)	Tert Amyl Alcohol	6.774	59	134607	479.03	ug/Kg	95
109)	1,4-Dioxane	7.887	88	58488	1911.00	ug/Kg	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:36:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

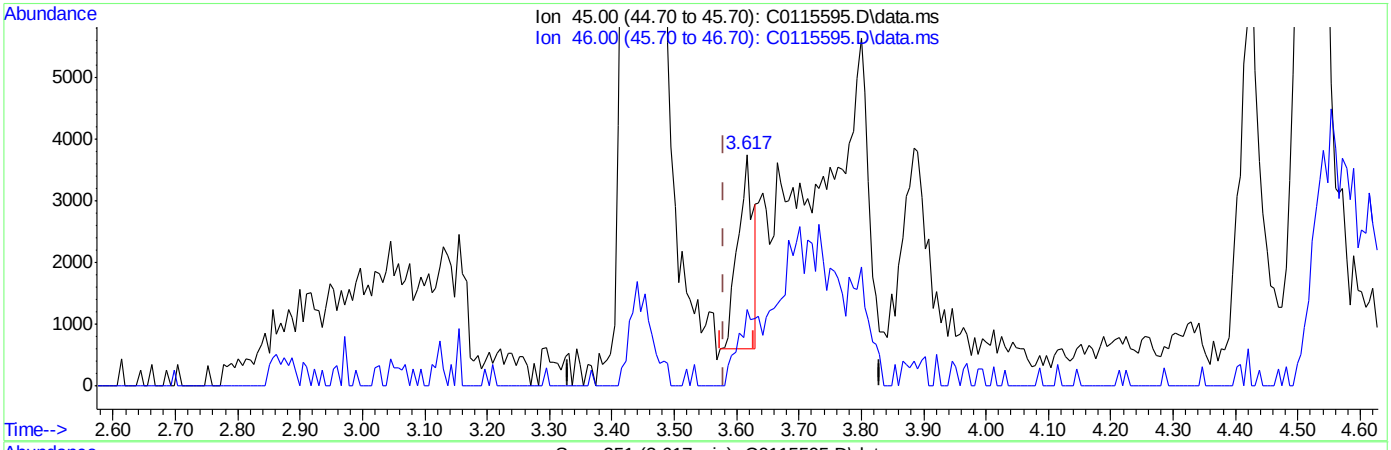
Sample Number:	FA33788-8MSD	**Method:**	SW846 8260C
Lab FileID:	C0115595.D	**Analyst approved:**	05/16/16 10:08 Eric Parrish
Injection Time:	05/12/16 18:50	**Supervisor approved:**	05/16/16 11:38 Juan Garcia

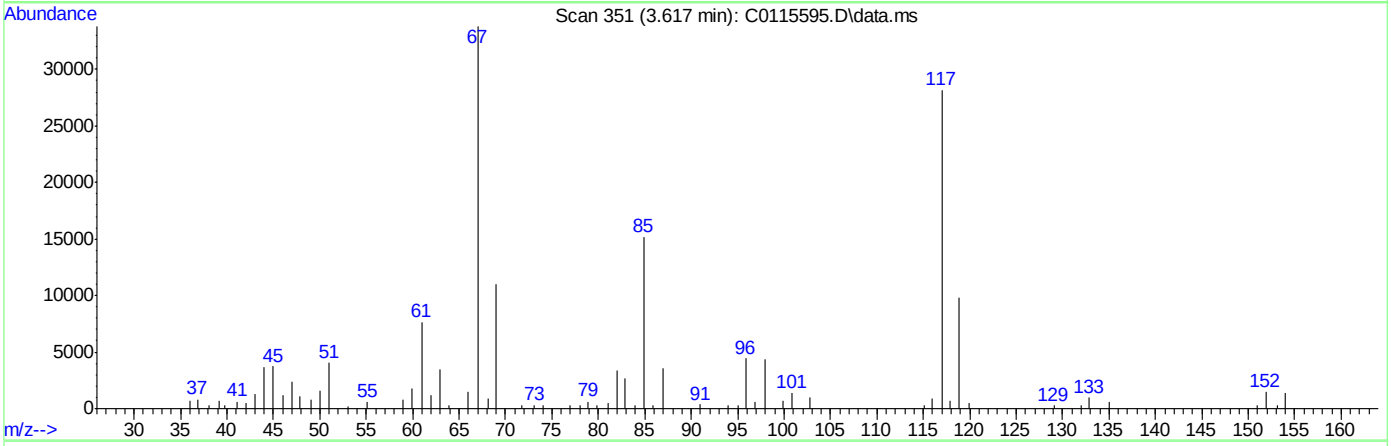
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.80	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:35:57 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration





TIC: C0115595.D\data.ms

(104) Ethanol

3.617min (+0.036) 243.43ug/Kg

response 5357

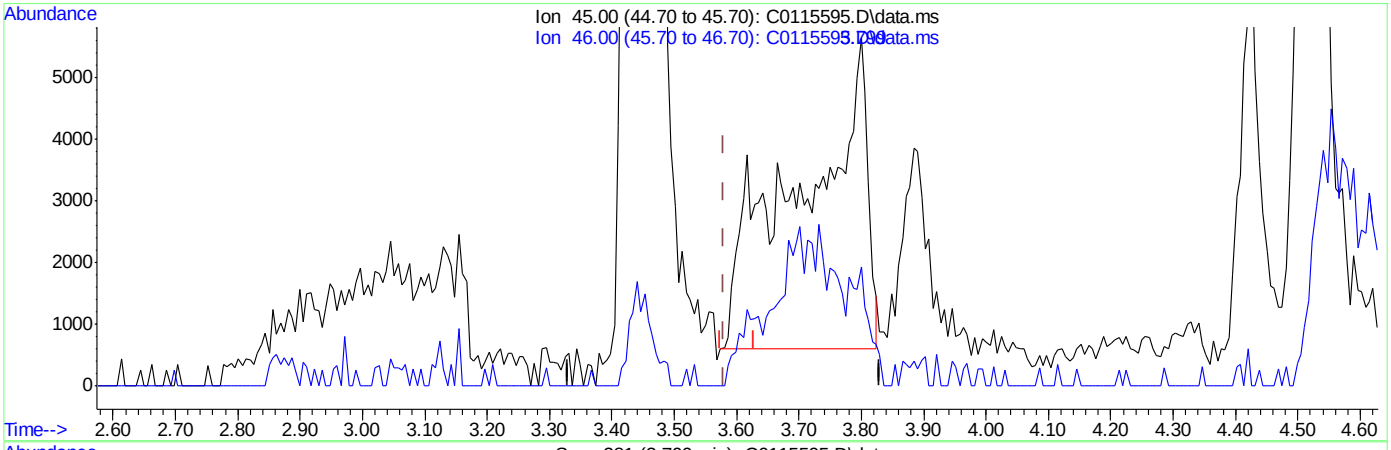
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	39.18
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115595.D
Acq On : 12 May 2016 6:50 pm
Operator : ericp
Sample : FA33788-8MSD MA,50x Inst : MSVOA5
Misc : ms33850,vc4595,5.03,,100,5,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 13 07:35:57 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



(104) Ethanol

3.799min (+0.219) 1668.45ug/Kg m

response 36716

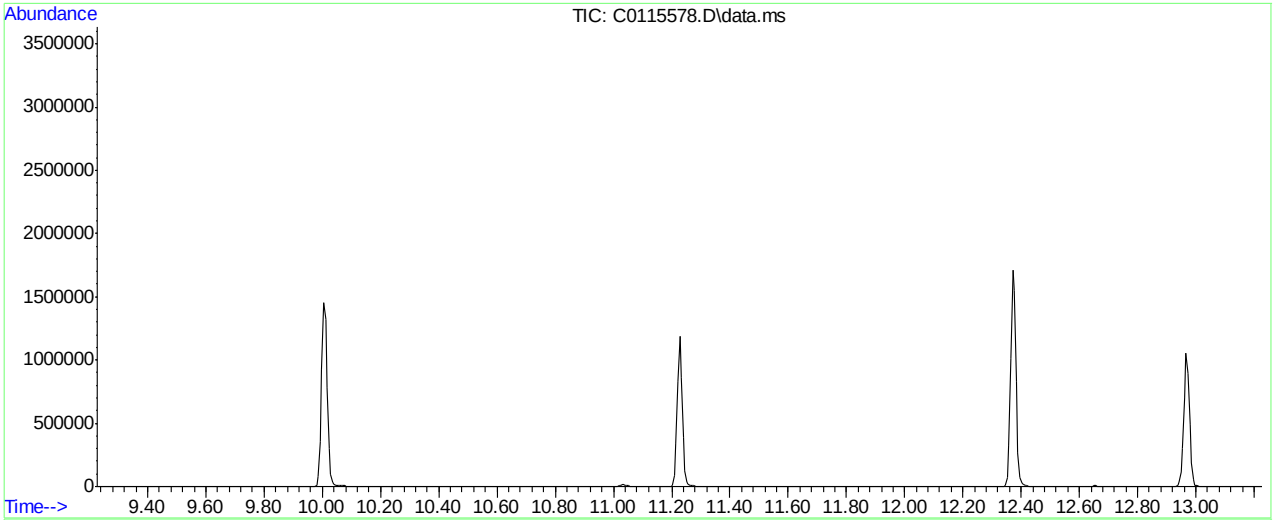
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	34.20
0.00	0.00	0.00
0.00	0.00	0.00

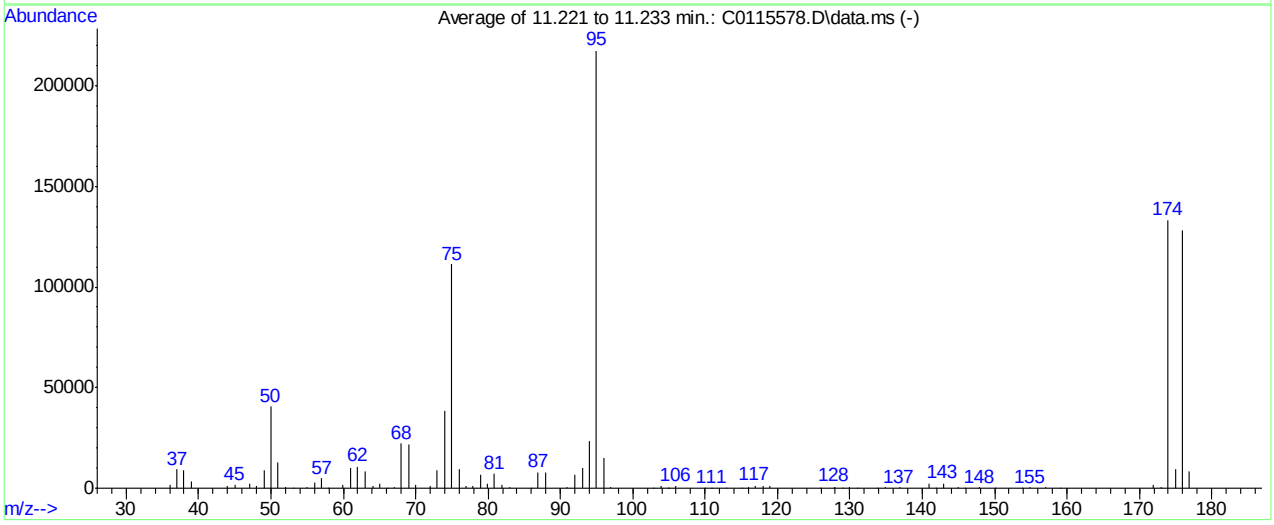
SGS ACCUTEST FA33788

Methods: SW-846 8260B

Data File : C:\msdchem\2\DATA\051216\C0115578.D Vial: 5
Acq On : 12 May 2016 11:34 am Operator: ericp
Sample : BFB Inst : MSVOA5
Misc : ms33242,vc4595,,,,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\MET...216APP9-C-Soil.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B





Spectrum Information: Average of 11.221 to 11.233 min.

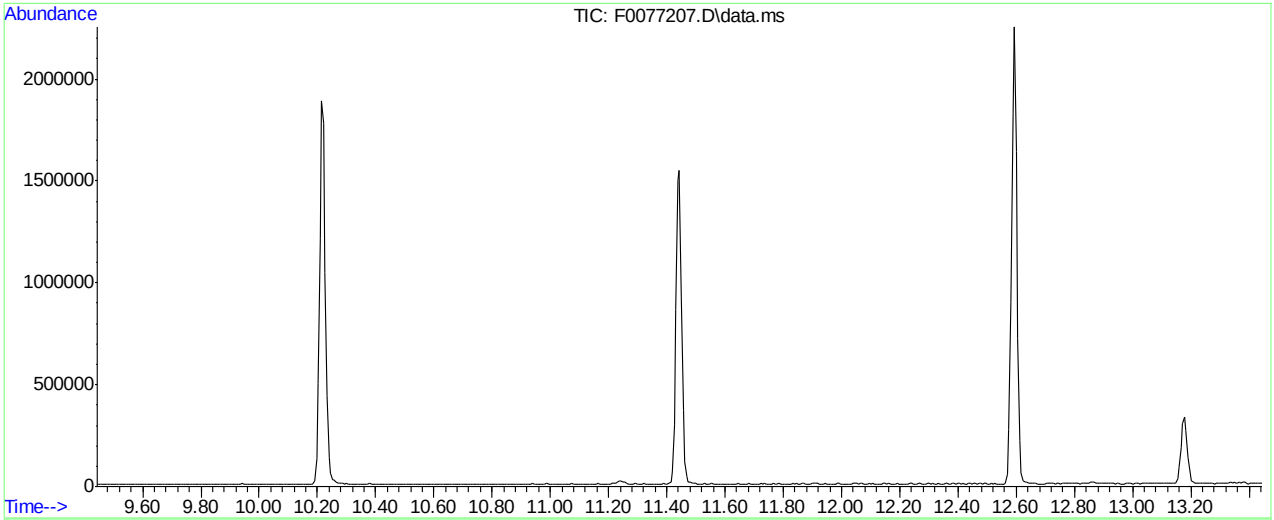
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.6	40501	PASS
75	95	30	60	51.1	111235	PASS
95	95	100	100	100.0	217536	PASS
96	95	5	9	7.0	15132	PASS
173	174	0.00	2	0.6	778	PASS
174	95	50	100	61.3	133296	PASS
175	174	5	9	7.3	9706	PASS
176	174	95	101	96.0	127989	PASS
177	176	5	9	6.7	8524	PASS

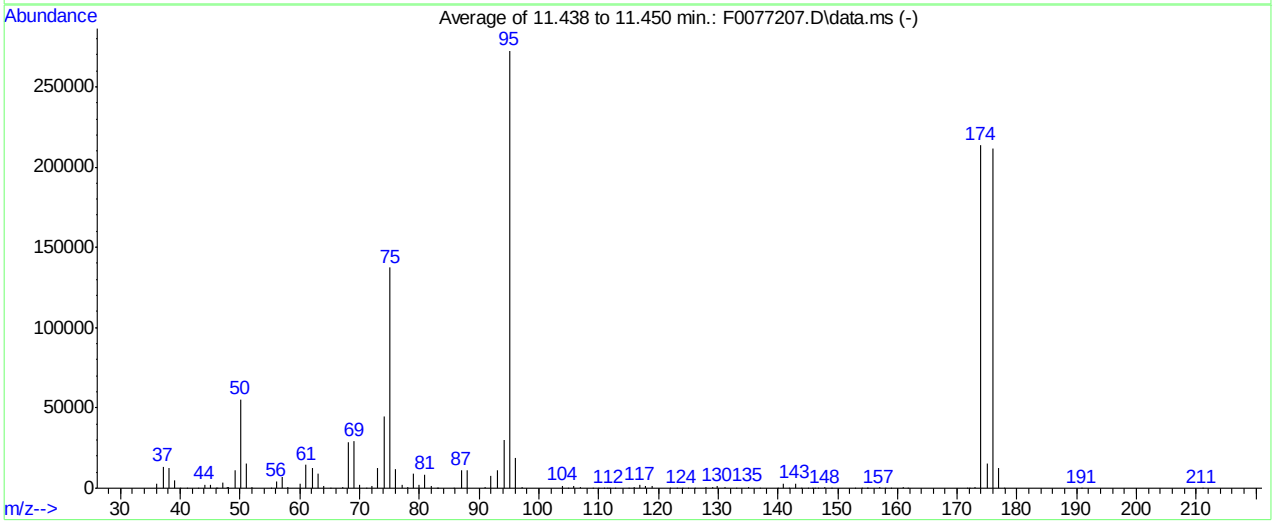
C0115578.D 051216APP9-C-Soil.m Fri May 13 07:44:21 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\050916\F0077207.D Vial: 5
Acq On : 9 May 2016 8:21 am Operator: ericp
Sample : BFB Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\050916APP9-F.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B





Spectrum Information: Average of 11.438 to 11.450 min.

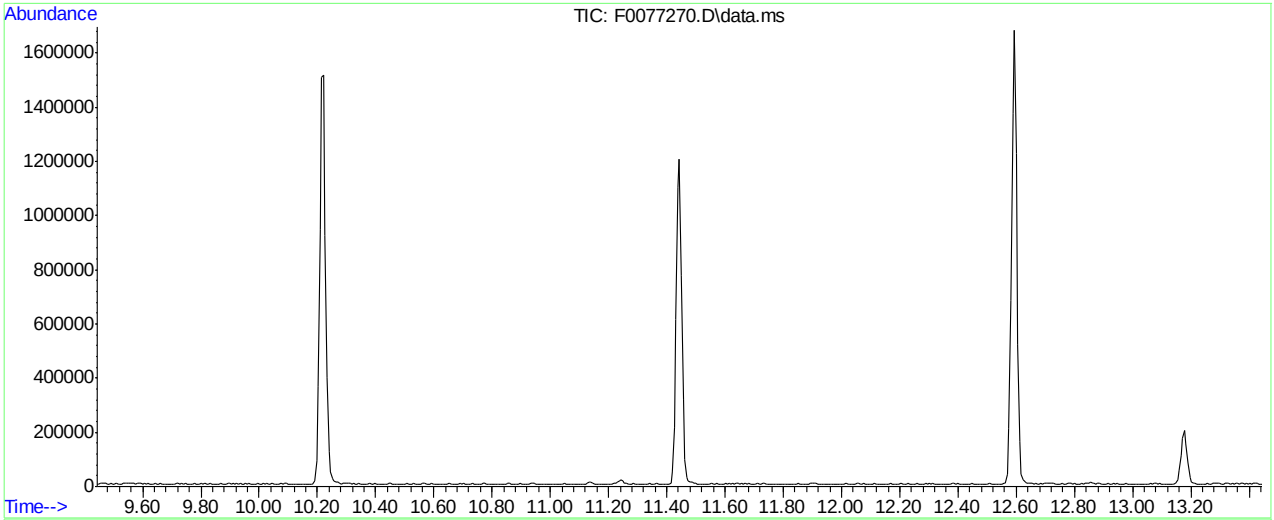
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	55453	PASS
75	95	30	60	50.4	137296	PASS
95	95	100	100	100.0	272576	PASS
96	95	5	9	7.0	19176	PASS
173	174	0.00	2	0.2	481	PASS
174	95	50	100	78.4	213824	PASS
175	174	5	9	7.0	15050	PASS
176	174	95	101	98.9	211541	PASS
177	176	5	9	6.0	12635	PASS

F0077207.D 050916APP9-F.m Tue May 10 07:14:12 2016

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\DATA\051116\F0077270.D          Vial: 5
Acq On    : 11 May 2016   9:28 am                    Operator: ericp
Sample    : BFB                                      Inst    : MSVOA9
Misc      : MS33830,vf2651,5.00,,,5,,                Multiplr: 1.00
MS Integration Params: rteint.p

Method    : C:\msdchem\1\METHODS\050916APP9-F.m (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```



Spectrum Information: Average of 11.438 to 11.450 min.

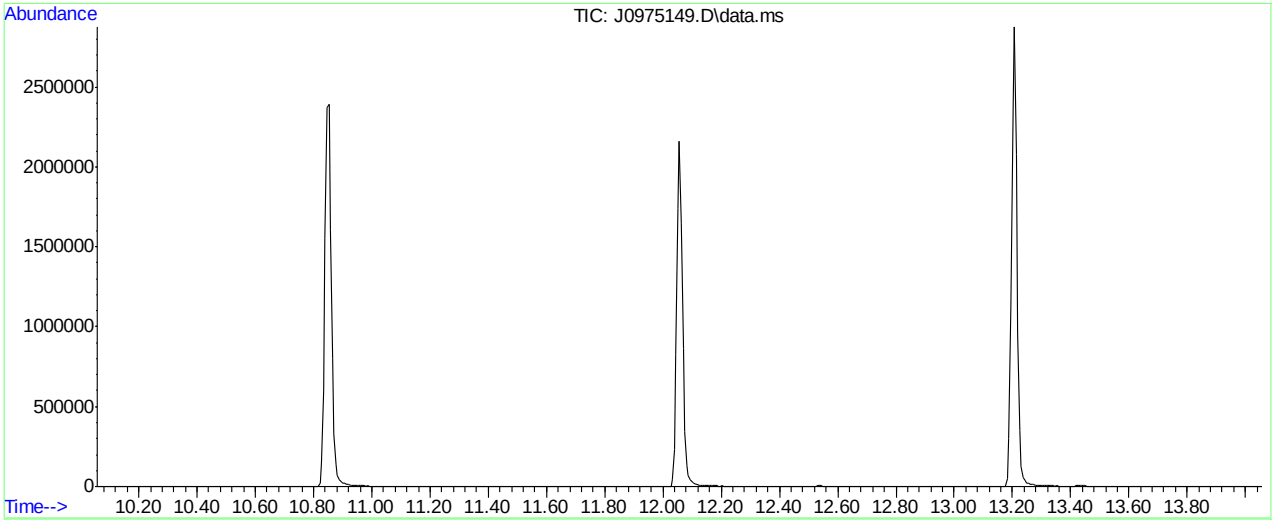
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.2	44443	PASS
75	95	30	60	50.0	104661	PASS
95	95	100	100	100.0	209344	PASS
96	95	5	9	6.7	13991	PASS
173	174	0.00	2	0.7	1125	PASS
174	95	50	100	76.6	160384	PASS
175	174	5	9	7.0	11231	PASS
176	174	95	101	96.5	154837	PASS
177	176	5	9	6.9	10719	PASS

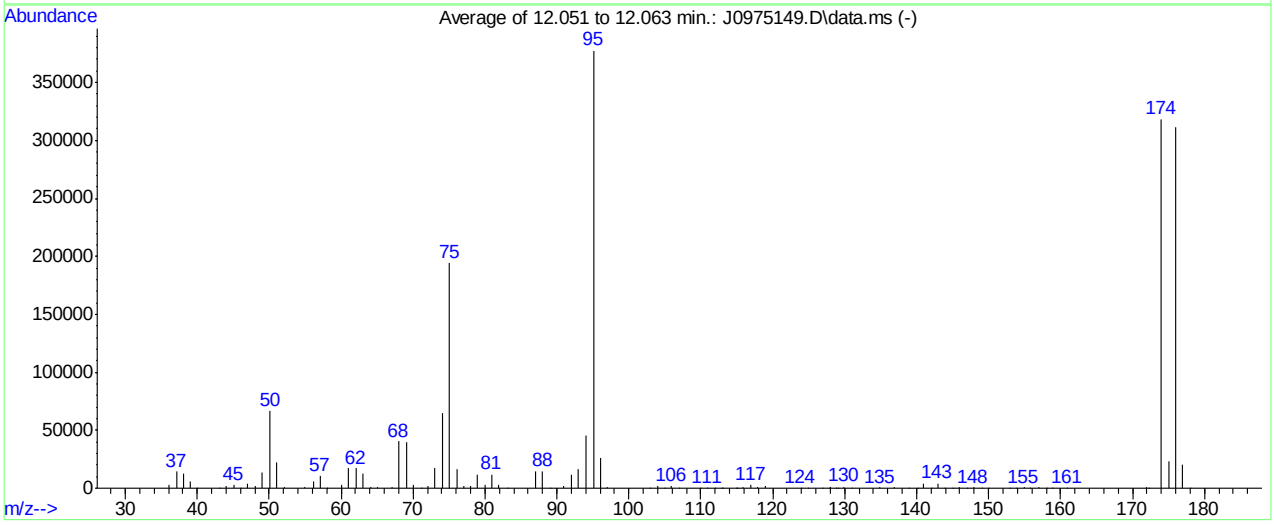
F0077270.D 050916APP9-F.m Thu May 12 08:15:34 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\data\031516\J0975149.D Vial: 5
Acq On : 15 Mar 2016 1:53 pm Operator: DARSHNAP
Sample : BFB Inst : MSVOA6
Misc : MS33279,VJ5237,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ031516.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1573, 1574, 1575; Background Corrected with Scan 1566

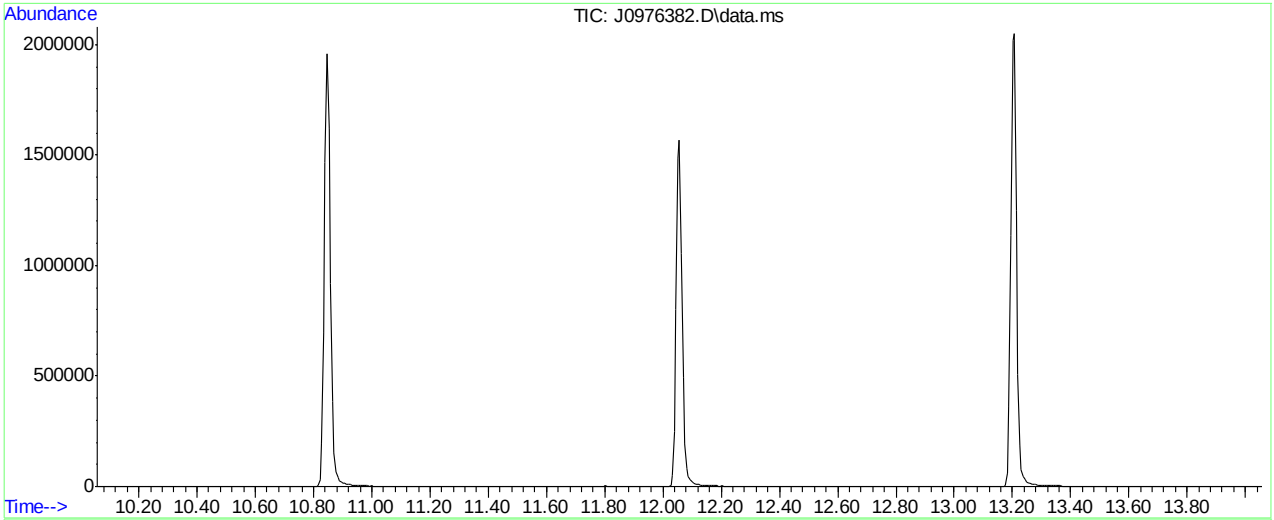
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	66293	PASS
75	95	30	60	51.4	194069	PASS
95	95	100	100	100.0	377600	PASS
96	95	5	9	7.0	26531	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.3	318315	PASS
175	174	5	9	7.2	22907	PASS
176	174	95	101	97.8	311403	PASS
177	176	5	9	6.5	20325	PASS

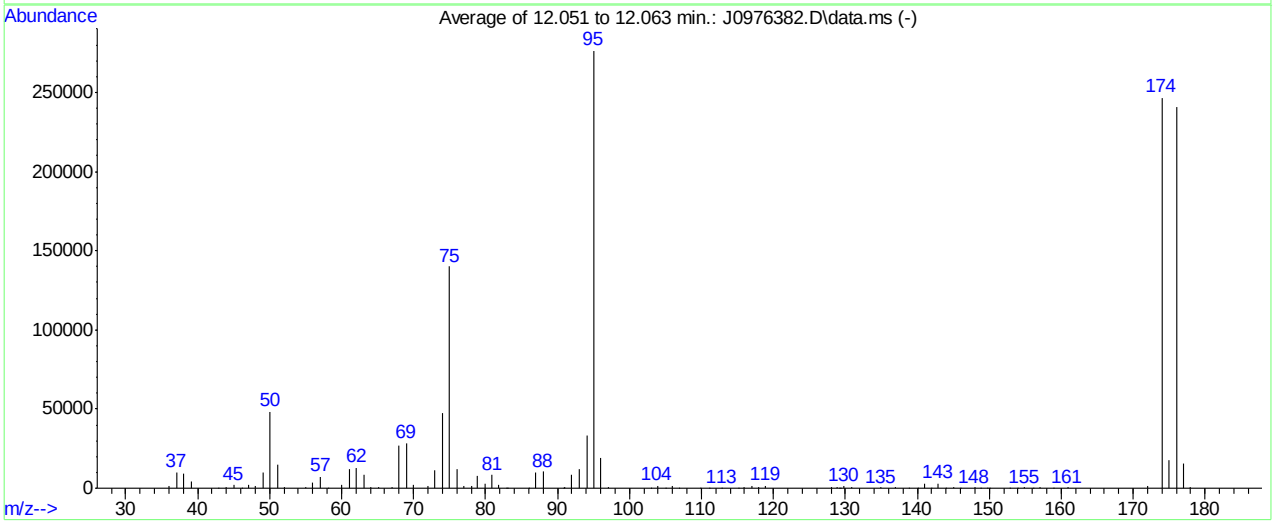
J0975149.D MSJ031516.M Wed Mar 16 09:52:48 2016

Methods: SW-846 8260B

```
Data File : C:\msdchem\2\data\051016\J0976382.D          Vial: 1
Acq On    : 10 May 2016   8:11 am                    Operator: darshnap
Sample    : bfb                                      Inst    : MSVOA6
Misc      : MS33818,VJ5291,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method    : C:\msdchem\2\methods\MSJ031516.M (RTE Integrator)
Title     : SW-846 Method 5030B/8260B & EPA 624
```





AutoFind: Scans 1573, 1574, 1575; Background Corrected with Scan 1566

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	48488	PASS
75	95	30	60	50.7	140147	PASS
95	95	100	100	100.0	276480	PASS
96	95	5	9	6.8	18863	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	89.1	246421	PASS
175	174	5	9	7.3	17940	PASS
176	174	95	101	97.6	240448	PASS
177	176	5	9	6.6	15896	PASS

J0976382.D MSJ031516.M Wed May 11 12:40:22 2016

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 13:40:46 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.883	96	884118	50.00	ug/Kg	-0.01
54) Chlorobenzene-d5	10.004	117	554515	50.00	ug/Kg	-0.01
76) 1,4-Dichlorobenzene-d4	12.371	152	282794	50.00	ug/Kg	-0.02
103) Tert Butyl Alcohol-d10	4.523	65	121926	250.00	ug/Kg	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	280974	50.00	ug/Kg	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.00%			
44) 1,2-Dichloroethane-d4	6.616	65	315777	50.00	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 100.00%			
55) Toluene-d8	8.453	98	789139	50.00	ug/Kg	-0.01
Spiked Amount 50.000	Range 75 - 126		Recovery = 100.00%			
77) 4-Bromofluorobenzene	11.227	174	167612	50.00	ug/Kg	-0.01
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.223	85	56473	5.00	ug/Kg	91
3) Chloromethane	2.412	50	53720	5.00	ug/Kg	98
4) Vinyl Chloride	2.515	62	42575	5.00	ug/Kg	94
5) Bromomethane	2.881	94	23925	5.00	ug/Kg	99
6) Chloroethane	3.014	64	21088	5.00	ug/Kg	90
7) Trichlorofluoromethane	3.166	101	53957	5.00	ug/Kg	96
8) Ethyl Ether	3.440	59	21835	5.00	ug/Kg	81
9) 1,2-Dichlorotrifluoroe...	3.659	67	42855	5.00	ug/Kg	83
10) 1,1-Dichloroethene	3.665	61	57077	5.00	ug/Kg	97
11) Freon 113	3.726	101	40311	5.00	ug/Kg	93
12) Carbon Disulfide	3.714	76	119632	5.00	ug/Kg	89
13) Iodomethane	3.830	142	57005	5.00	ug/Kg	96
14) Allyl chloride	4.152	41	48376	5.00	ug/Kg#	79
15) Methylene Chloride	4.255	49	57952	5.00	ug/Kg	91
16) Acetone	4.316	43	44783	25.00	ug/Kg	95
17) Methyl acetate	4.420	43	79086	25.00	ug/Kg	95
18) trans-1,2-Dichloroethene	4.420	61	47727	5.00	ug/Kg	93
19) Hexane	4.487	56	27851	5.00	ug/Kg	93
20) Methyl Tert Butyl Ether	4.511	73	81037	5.00	ug/Kg	93
21) Acetonitrile	4.791	41	28512	50.00	ug/Kg	84
22) Di-isopropyl ether	4.882	45	79859	5.00	ug/Kg	94
23) Chloroprene	5.016	53	57539	5.00	ug/Kg	90
24) 1,1-Dichloroethane	5.046	63	61379	5.00	ug/Kg	94
25) Acrylonitrile	5.107	52	33047	25.00	ug/Kg	89
26) ETBE	5.253	59	82077	5.00	ug/Kg	92
27) Vinyl acetate	5.277	43	202726	25.00	ug/Kg	98
28) cis-1,2-Dichloroethene	5.594	96	38080	5.00	ug/Kg	99
29) 2,2-Dichloropropane	5.709	77	49883	5.00	ug/Kg	96
30) Bromochloromethane	5.807	128	17816	5.00	ug/Kg#	83
31) Cyclohexane	5.807	84	53781	5.00	ug/Kg	93
32) Chloroform	5.868	83	68752	5.00	ug/Kg	96
33) Ethyl acetate	5.965	43	74203	25.00	ug/Kg	95
34) Tetrahydrofuran	6.044	42	6673	5.00	ug/Kg	86

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 13:40:46 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon Tetrachloride	6.020	117	56190	5.00	ug/Kg	97
37) 1,1,1-Trichloroethane	6.093	97	61032	5.00	ug/Kg	96
38) 2-Butanone	6.190	43	44942	25.00	ug/Kg	93
39) 1,1-Dichloropropene	6.214	75	43507	5.00	ug/Kg	92
40) Propionitrile	6.506	54	30707	50.00	ug/Kg	94
41) Methacrylonitrile	6.518	41	112022	50.00	ug/Kg	91
42) Benzene	6.470	78	120468	5.00	ug/Kg	96
43) TAME	6.561	73	72952	5.00	ug/Kg	90
45) 1,2-Dichloroethane	6.683	62	42059	5.00	ug/Kg	92
46) Trichloroethene	7.060	95	32342	5.00	ug/Kg	93
47) Methylcyclohexane	7.048	83	52195	5.00	ug/Kg	89
48) Dibromomethane	7.498	93	17976	5.00	ug/Kg#	74
49) 1,2-Dichloropropane	7.589	63	26013	5.00	ug/Kg	82
50) Bromodichloromethane	7.644	83	39015	5.00	ug/Kg	85
51) Methyl methacrylate	7.772	41	7889	5.00	ug/Kg	89
52) 2-Chloroethyl vinyl ether	8.191	63	23563	25.00	ug/Kg	94
53) cis-1,3-Dichloropropene	8.271	75	27609	5.00	ug/Kg	88
56) Toluene	8.508	91	96828	5.00	ug/Kg	90
57) 2-Nitropropane	8.745	41	23033	25.00	ug/Kg	95
58) 4-Methyl-2-pentanone	8.867	43	81592	25.00	ug/Kg	87
59) trans-1,3-Dichloropropene	8.915	75	19778	5.00	ug/Kg#	80
60) Tetrachloroethene	8.897	166	24282	5.00	ug/Kg	98
61) Ethyl methacrylate	9.043	69	11993	5.00	ug/Kg	92
62) 1,1,2-Trichloroethane	9.080	83	15959	5.00	ug/Kg	91
63) Dibromochloromethane	9.262	129	17796	5.00	ug/Kg	89
64) 1,3-Dichloropropane	9.360	76	24833	5.00	ug/Kg	95
65) 1,2-Dibromoethane	9.518	107	14031	5.00	ug/Kg	85
66) 2-hexanone	9.694	43	32416	25.00	ug/Kg	85
67) 1-Chlorohexane	9.974	91	18843	5.00	ug/Kg	79
68) Ethylbenzene	10.035	91	103001	5.00	ug/Kg	95
69) Chlorobenzene	10.029	112	58024	5.00	ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.077	131	27066	5.00	ug/Kg	93
71) m,p-Xylene	10.175	91	140211	10.00	ug/Kg	95
72) o-Xylene	10.613	91	62041	5.00	ug/Kg	95
73) Styrene	10.667	104	38267	5.00	ug/Kg	90
74) Bromoform	10.716	173	8588	5.00	ug/Kg	94
75) Isopropylbenzene	10.923	105	76219	5.00	ug/Kg	97
78) cis-1,4-Dichloro-2-butene	11.276	53	2977	5.00	ug/Kg#	48
79) n-Propylbenzene	11.343	91	106475	5.00	ug/Kg	98
80) Bromobenzene	11.343	156	22169	5.00	ug/Kg	96
81) 1,1,2,2-Tetrachloroethane	11.422	83	27329	5.00	ug/Kg	99
82) 1,3,5-Trimethylbenzene	11.531	105	73312	5.00	ug/Kg	98
83) 2-Chlorotoluene	11.519	91	78918	5.00	ug/Kg	94
84) trans-1,4-Dichloro-2-B...	11.598	53	3205	5.00	ug/Kg#	69
85) 1,2,3-Trichloropropane	11.574	110	7395	5.00	ug/Kg	93
86) Cyclohexanone	11.629	55	3103	25.00	ug/Kg	73
87) 4-Chlorotoluene	11.690	91	61466	5.00	ug/Kg	93
88) tert-Butylbenzene	11.866	91	34895	5.00	ug/Kg	90
89) 1,2,4-Trimethylbenzene	11.939	105	70175	5.00	ug/Kg	98
90) Pentachloroethane	11.909	167	13875	5.00	ug/Kg	85

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 13:40:46 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

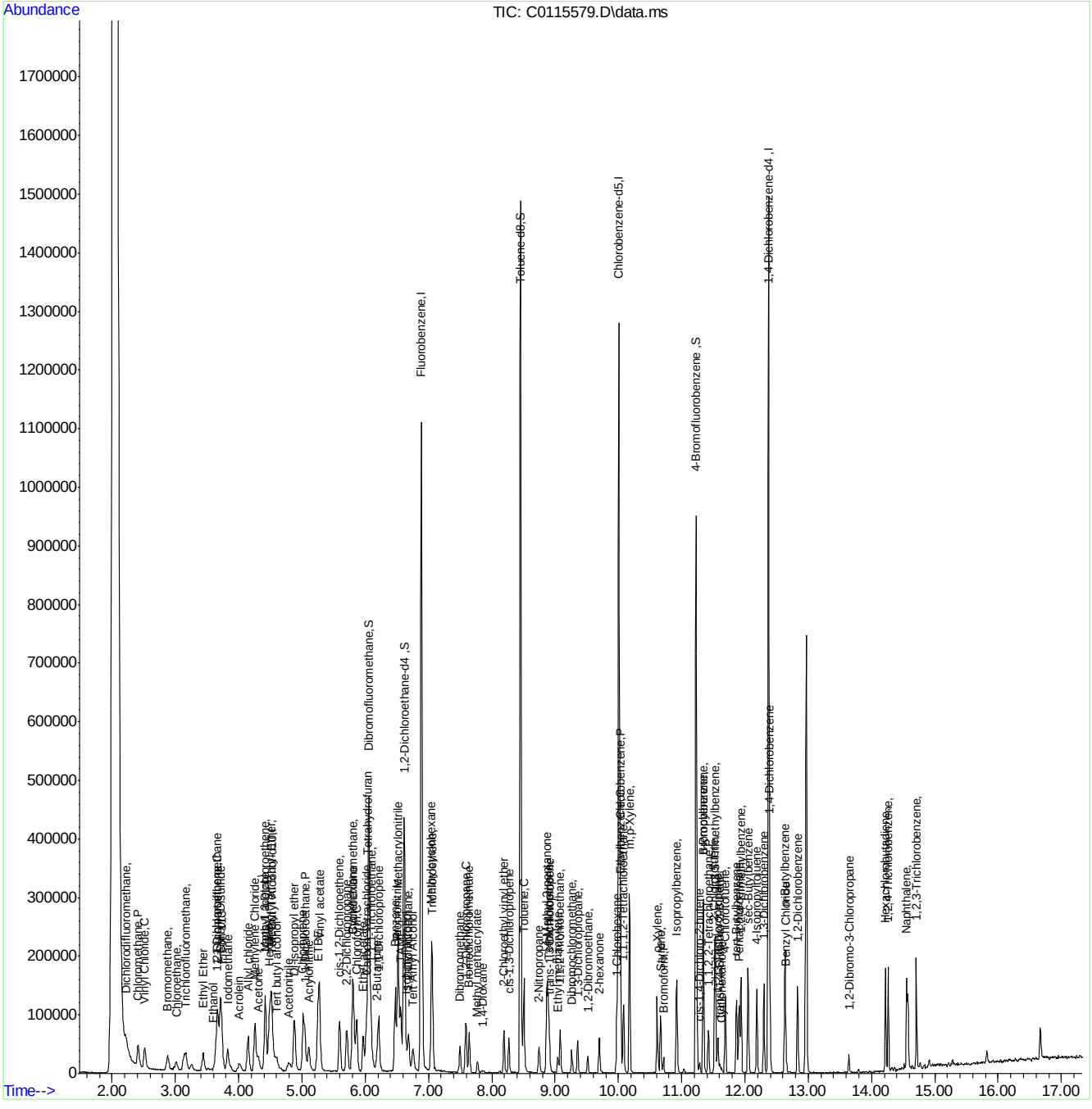
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.048	105	88427	5.00	ug/Kg	88
92)	4-Isopropyltoluene	12.188	119	61899	5.00	ug/Kg	95
93)	1,3-Dichlorobenzene	12.298	146	45329	5.00	ug/Kg	94
94)	1,4-Dichlorobenzene	12.389	146	47610	5.00	ug/Kg	94
95)	n-Butylbenzene	12.632	92	40351	5.00	ug/Kg#	55
96)	Benzyl Chloride	12.645	126	7419	5.00	ug/Kg#	82
97)	1,2-Dichlorobenzene	12.833	146	45726	5.00	ug/Kg	90
98)	1,2-Dibromo-3-Chloropr...	13.642	75	6126	5.00	ug/Kg#	74
99)	Hexachlorobutadiene	14.220	225	20348	5.00	ug/Kg	87
100)	1,2,4-Trichlorobenzene	14.263	180	30990	5.00	ug/Kg	93
101)	Naphthalene	14.555	128	72271	5.00	ug/Kg	94
102)	1,2,3-Trichlorobenzene	14.713	180	33516	5.00	ug/Kg	97
104)	Ethanol	3.604	45	3506m	324.33	ug/Kg	
105)	Acrolein	4.012	56	16012	25.00	ug/Kg	80
106)	Tert butyl alcohol	4.602	59	31096	50.00	ug/Kg	92
107)	Isobutyl alcohol	6.646	42	14067	100.00	ug/Kg#	64
108)	Tert Amyl Alcohol	6.750	59	20082	50.00	ug/Kg	92
109)	1,4-Dioxane	7.851	88	3095	100.00	ug/Kg	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 13:40:46 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

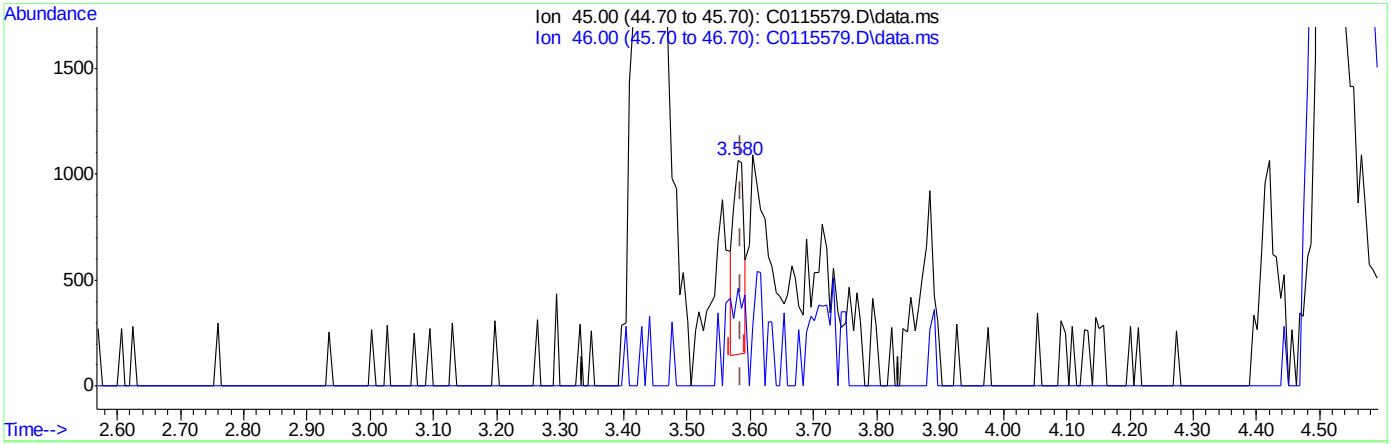
Sample Number:	VC4595-IC4595	**Method:**	SW846 8260B
Lab FileID:	C0115579.D	**Analyst approved:**	05/13/16 08:01 Eric Parrish
Injection Time:	05/12/16 11:59	**Supervisor approved:**	05/13/16 11:58 Melissa Mangual

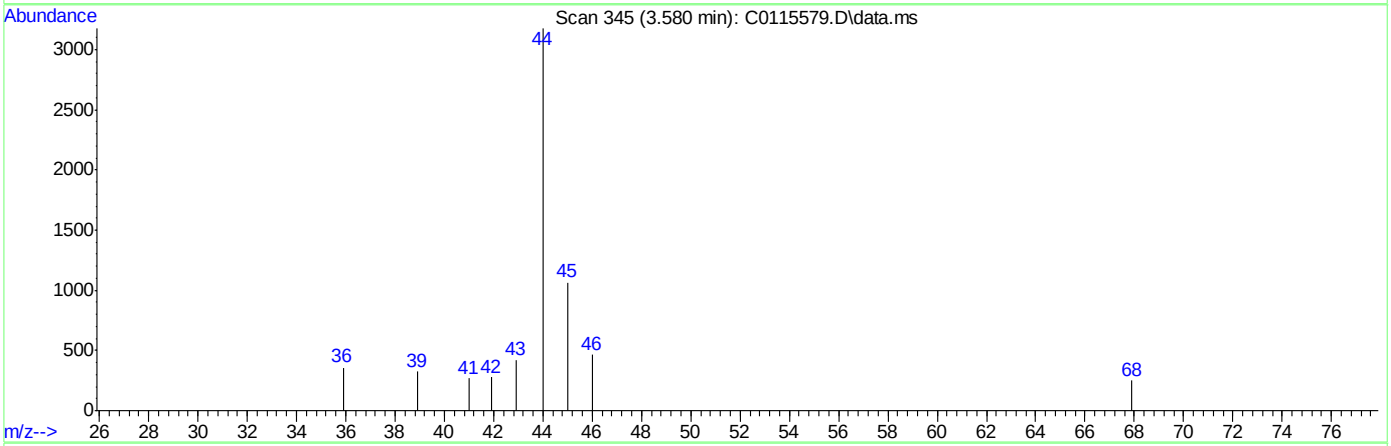
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.60	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 12:22:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration





TIC: C0115579.D\data.ms

(104) Ethanol

3.580min (-0.006) 100.00ug/Kg

response 1081

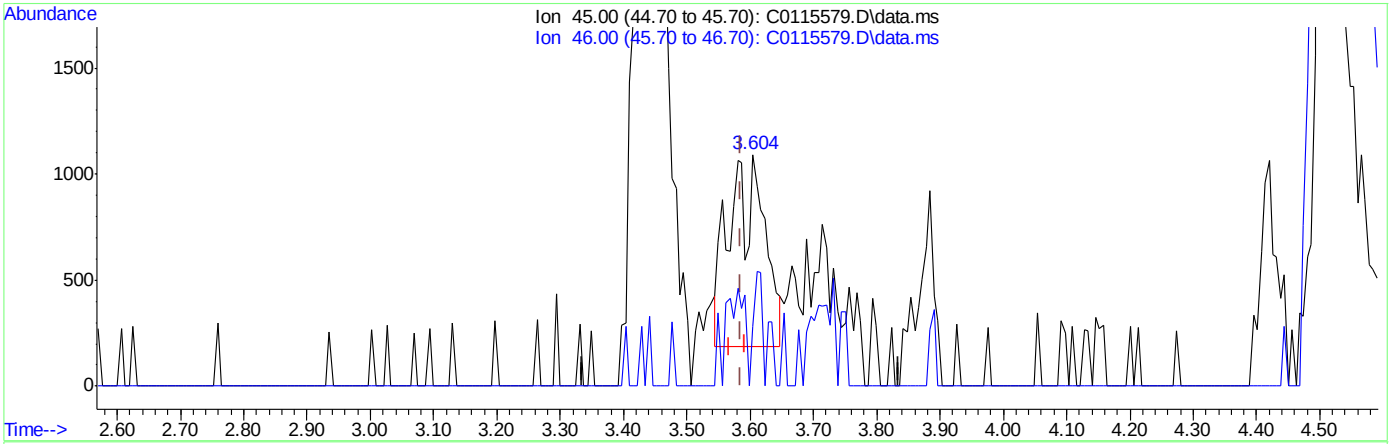
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	10.40
0.00	0.00	0.00
0.00	0.00	0.00

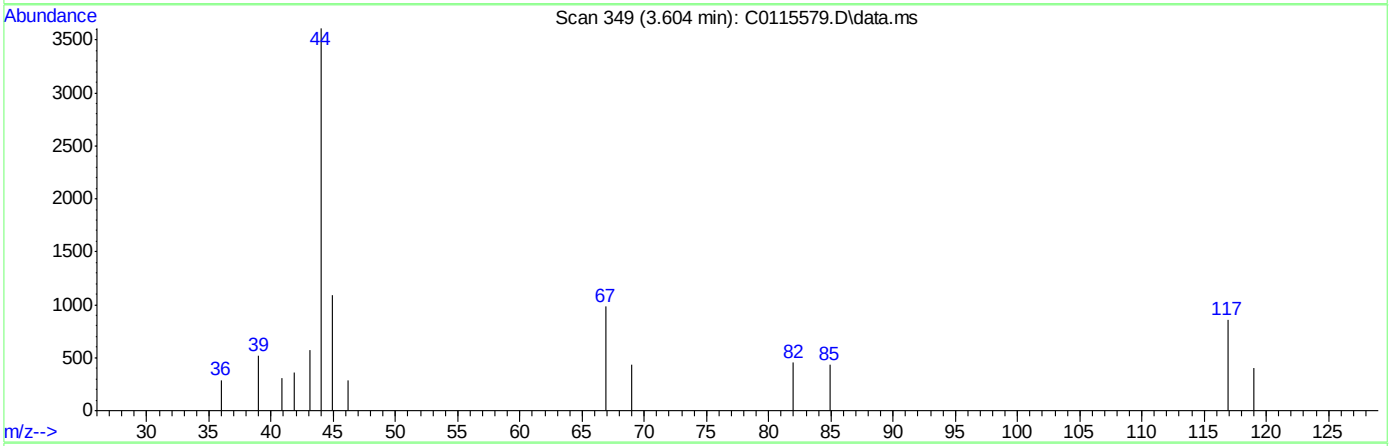
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115579.D
Acq On : 12 May 2016 11:59 am
Operator : ericp
Sample : IC4595-1 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 12 12:22:20 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration





TIC: C0115579.D\data.ms

(104) Ethanol

3.604min (+0.018) 324.33ug/Kg m

response 3506

Ion	Exp%	Act%
45.00	100	100
46.00	30.00	26.01
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 13:39:59 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.889	96	915264	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	596167	50.00	ug/Kg	-0.01
76) 1,4-Dichlorobenzene-d4	12.371	152	297752	50.00	ug/Kg	-0.02
103) Tert Butyl Alcohol-d10	4.523	65	110761	250.00	ug/Kg	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	290968	50.02	ug/Kg	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.04%			
44) 1,2-Dichloroethane-d4	6.616	65	320873	49.08	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 98.16%			
55) Toluene-d8	8.453	98	821580	48.42	ug/Kg	-0.01
Spiked Amount 50.000	Range 75 - 126		Recovery = 96.84%			
77) 4-Bromofluorobenzene	11.227	174	173049	49.03	ug/Kg	-0.01
Spiked Amount 50.000	Range 71 - 133		Recovery = 98.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.223	85	112943	9.66	ug/Kg	100
3) Chloromethane	2.412	50	112801	10.14	ug/Kg	99
4) Vinyl Chloride	2.521	62	91339	10.36	ug/Kg	99
5) Bromomethane	2.874	94	51226	10.34	ug/Kg	96
6) Chloroethane	3.020	64	44794	10.26	ug/Kg	89
7) Trichlorofluoromethane	3.166	101	118851	10.64	ug/Kg	100
8) Ethyl Ether	3.440	59	48354	10.70	ug/Kg	93
9) 1,2-Dichlorotrifluoroe...	3.665	67	86670	9.77	ug/Kg	90
10) 1,1-Dichloroethene	3.671	61	120755	10.22	ug/Kg	98
11) Freon 113	3.720	101	83206	9.97	ug/Kg	87
12) Carbon Disulfide	3.720	76	241433	9.75	ug/Kg	88
13) Iodomethane	3.829	142	118406	10.03	ug/Kg	96
14) Allyl chloride	4.152	41	94744	9.46	ug/Kg	81
15) Methylene Chloride	4.261	49	101363	8.45	ug/Kg	97
16) Acetone	4.310	43	76245	41.12	ug/Kg	89
17) Methyl acetate	4.420	43	153332	46.82	ug/Kg	93
18) trans-1,2-Dichloroethene	4.420	61	103541	10.48	ug/Kg	93
19) Hexane	4.480	56	55487	9.62	ug/Kg	87
20) Methyl Tert Butyl Ether	4.511	73	167752	10.00	ug/Kg	90
21) Acetonitrile	4.797	41	42655	72.26	ug/Kg	90
22) Di-isopropyl ether	4.882	45	174525	10.56	ug/Kg	95
23) Chloroprene	5.022	53	120908	10.15	ug/Kg	90
24) 1,1-Dichloroethane	5.046	63	129342	10.18	ug/Kg	97
25) Acrylonitrile	5.101	52	59827	43.72	ug/Kg	94
26) ETBE	5.253	59	178088	10.48	ug/Kg	93
27) Vinyl acetate	5.277	43	368401	43.88	ug/Kg	97
28) cis-1,2-Dichloroethene	5.594	96	82150	10.42	ug/Kg	96
29) 2,2-Dichloropropane	5.709	77	96631	9.36	ug/Kg	97
30) Bromochloromethane	5.807	128	36995	10.03	ug/Kg#	81
31) Cyclohexane	5.807	84	108264	9.72	ug/Kg	92
32) Chloroform	5.867	83	141847	9.96	ug/Kg	96
33) Ethyl acetate	5.965	43	140324	45.67	ug/Kg	99
34) Tetrahydrofuran	6.050	42	8750	6.33	ug/Kg	64

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 13:39:59 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon Tetrachloride	6.026	117	117172	10.07	ug/Kg	98
37) 1,1,1-Trichloroethane	6.093	97	123589	9.78	ug/Kg	93
38) 2-Butanone	6.184	43	81318	43.70	ug/Kg	92
39) 1,1-Dichloropropene	6.214	75	90663	10.06	ug/Kg	92
40) Propionitrile	6.506	54	58780	92.45	ug/Kg	97
41) Methacrylonitrile	6.518	41	216630	93.40	ug/Kg	94
42) Benzene	6.476	78	256514	10.28	ug/Kg	95
43) TAME	6.561	73	154295	10.22	ug/Kg	94
45) 1,2-Dichloroethane	6.683	62	85011	9.76	ug/Kg	93
46) Trichloroethene	7.060	95	67420	10.07	ug/Kg	98
47) Methylcyclohexane	7.054	83	115549	10.69	ug/Kg	98
48) Dibromomethane	7.498	93	36032	9.68	ug/Kg#	78
49) 1,2-Dichloropropane	7.589	63	55791	10.36	ug/Kg	79
50) Bromodichloromethane	7.644	83	81126	10.04	ug/Kg	96
51) Methyl methacrylate	7.772	41	22735	13.92	ug/Kg	88
52) 2-Chloroethyl vinyl ether	8.191	63	65396	67.02	ug/Kg	97
53) cis-1,3-Dichloropropene	8.270	75	63832	11.17	ug/Kg	92
56) Toluene	8.508	91	213977	10.28	ug/Kg	99
57) 2-Nitropropane	8.751	41	44385	44.81	ug/Kg	98
58) 4-Methyl-2-pentanone	8.867	43	180586	51.47	ug/Kg	89
59) trans-1,3-Dichloropropene	8.915	75	44508	10.47	ug/Kg#	80
60) Tetrachloroethene	8.891	166	55080	10.55	ug/Kg	95
61) Ethyl methacrylate	9.043	69	26553	10.30	ug/Kg	89
62) 1,1,2-Trichloroethane	9.080	83	32927	9.60	ug/Kg	94
63) Dibromochloromethane	9.262	129	42094	11.00	ug/Kg	98
64) 1,3-Dichloropropane	9.359	76	53994	10.11	ug/Kg	97
65) 1,2-Dibromoethane	9.518	107	31047	10.29	ug/Kg	100
66) 2-hexanone	9.700	43	74211	53.23	ug/Kg	93
67) 1-Chlorohexane	9.974	91	50642	12.50	ug/Kg	83
68) Ethylbenzene	10.035	91	235560	10.64	ug/Kg	98
69) Chlorobenzene	10.023	112	127549	10.22	ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.083	131	56233	9.66	ug/Kg	86
71) m,p-Xylene	10.175	91	338785	22.47	ug/Kg	99
72) o-Xylene	10.613	91	163468	12.25	ug/Kg	99
73) Styrene	10.667	104	104970	12.76	ug/Kg	95
74) Bromoform	10.716	173	20287	10.99	ug/Kg	93
75) Isopropylbenzene	10.923	105	201692	12.31	ug/Kg	97
78) cis-1,4-Dichloro-2-butene	11.288	53	6331	10.10	ug/Kg#	72
79) n-Propylbenzene	11.343	91	258214	11.52	ug/Kg	97
80) Bromobenzene	11.343	156	49686	10.64	ug/Kg	95
81) 1,1,2,2-Tetrachloroethane	11.422	83	57017	9.91	ug/Kg	93
82) 1,3,5-Trimethylbenzene	11.531	105	194990	12.63	ug/Kg	95
83) 2-Chlorotoluene	11.519	91	191449	11.52	ug/Kg	92
84) trans-1,4-Dichloro-2-B...	11.604	53	7761	11.50	ug/Kg	86
85) 1,2,3-Trichloropropane	11.574	110	14504	9.31	ug/Kg	95
86) Cyclohexanone	11.629	55	5815	44.50	ug/Kg	86
87) 4-Chlorotoluene	11.689	91	150294	11.61	ug/Kg	98
88) tert-Butylbenzene	11.866	91	102583	13.96	ug/Kg	92
89) 1,2,4-Trimethylbenzene	11.939	105	188146	12.73	ug/Kg	100
90) Pentachloroethane	11.908	167	31035	10.62	ug/Kg#	81

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 13:39:59 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.048	105	229098	12.30	ug/Kg	95
92) 4-Isopropyltoluene	12.188	119	178307	13.68	ug/Kg	96
93) 1,3-Dichlorobenzene	12.298	146	102418	10.73	ug/Kg	95
94) 1,4-Dichlorobenzene	12.389	146	96558	9.63	ug/Kg	98
95) n-Butylbenzene	12.632	92	106673	12.55	ug/Kg#	75
96) Benzyl Chloride	12.638	126	18450	11.81	ug/Kg#	74
97) 1,2-Dichlorobenzene	12.833	146	98104	10.19	ug/Kg	94
98) 1,2-Dibromo-3-Chloropr...	13.642	75	10969	8.50	ug/Kg#	76
99) Hexachlorobutadiene	14.220	225	40581	9.47	ug/Kg	84
100) 1,2,4-Trichlorobenzene	14.263	180	69378	10.63	ug/Kg	95
101) Naphthalene	14.555	128	161649	10.62	ug/Kg	98
102) 1,2,3-Trichlorobenzene	14.713	180	75378	10.68	ug/Kg	94
104) Ethanol	3.586	45	6409m	652.64	ug/Kg	
105) Acrolein	4.012	56	31423	54.01	ug/Kg	100
106) Tert butyl alcohol	4.596	59	55219	97.74	ug/Kg	93
107) Isobutyl alcohol	6.646	42	19340	151.34	ug/Kg	92
108) Tert Amyl Alcohol	6.750	59	37641	103.17	ug/Kg	92
109) 1,4-Dioxane	7.851	88	7353	261.53	ug/Kg	95

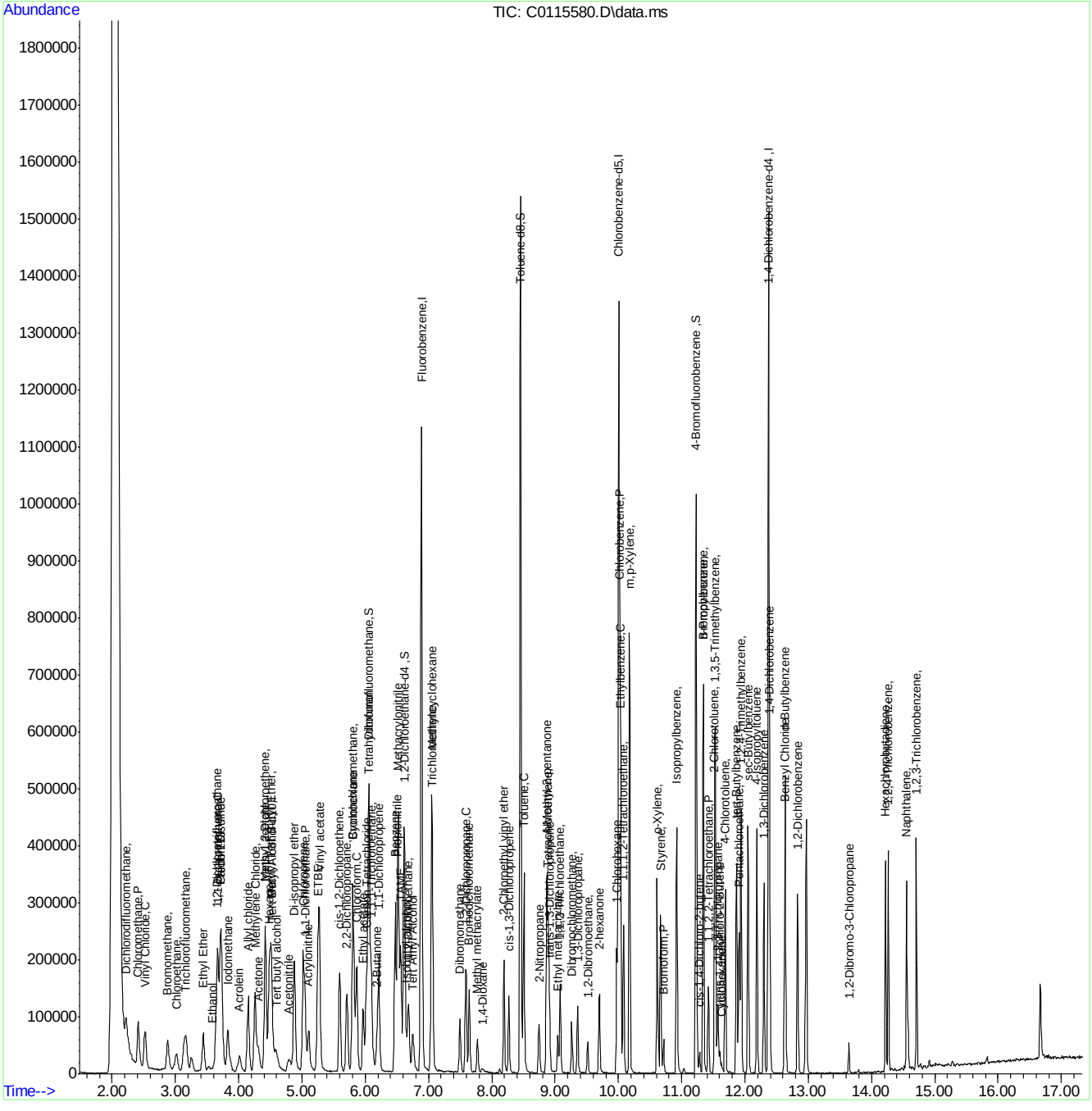
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 13:39:59 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

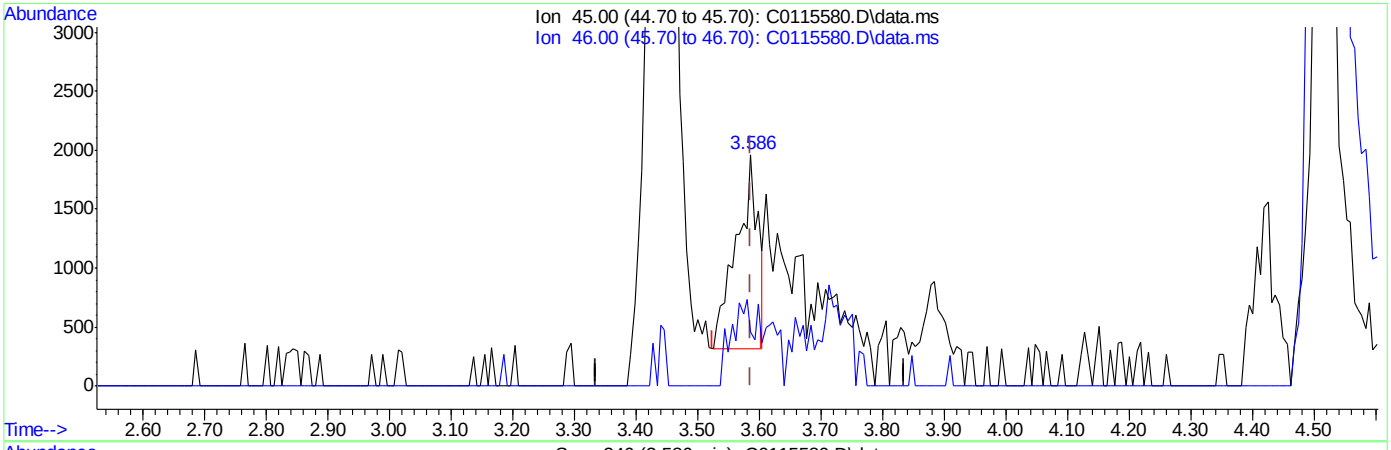
Sample Number:	VC4595-IC4595	**Method:**	SW846 8260B
Lab FileID:	C0115580.D	**Analyst approved:**	05/13/16 08:01 Eric Parrish
Injection Time:	05/12/16 12:25	**Supervisor approved:**	05/13/16 11:58 Melissa Mangual

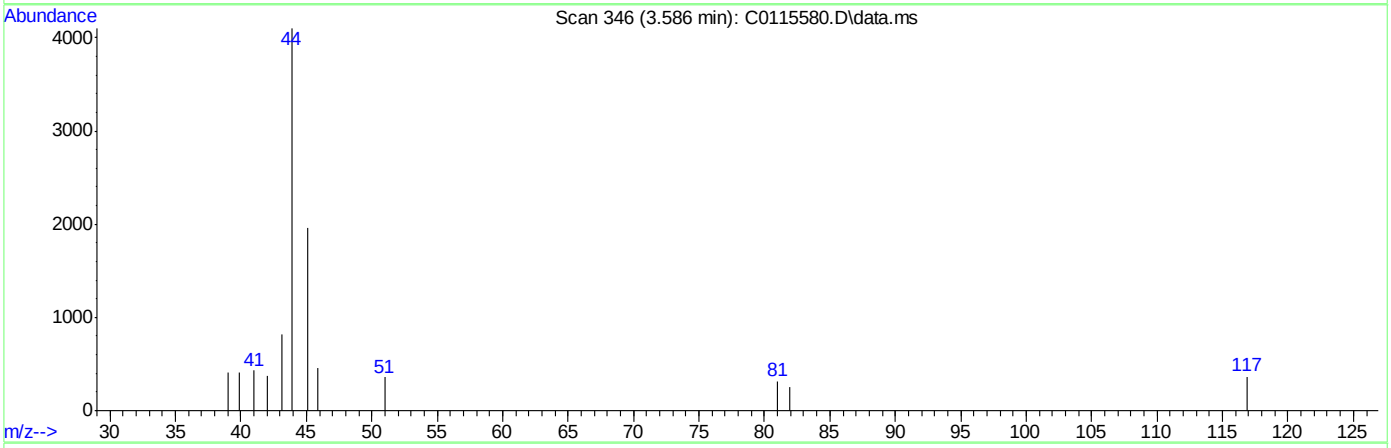
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.59	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 12:43:15 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration





TIC: C0115580.D\data.ms

(104) Ethanol

3.586min (+0.000) 411.40ug/Kg

response 4040

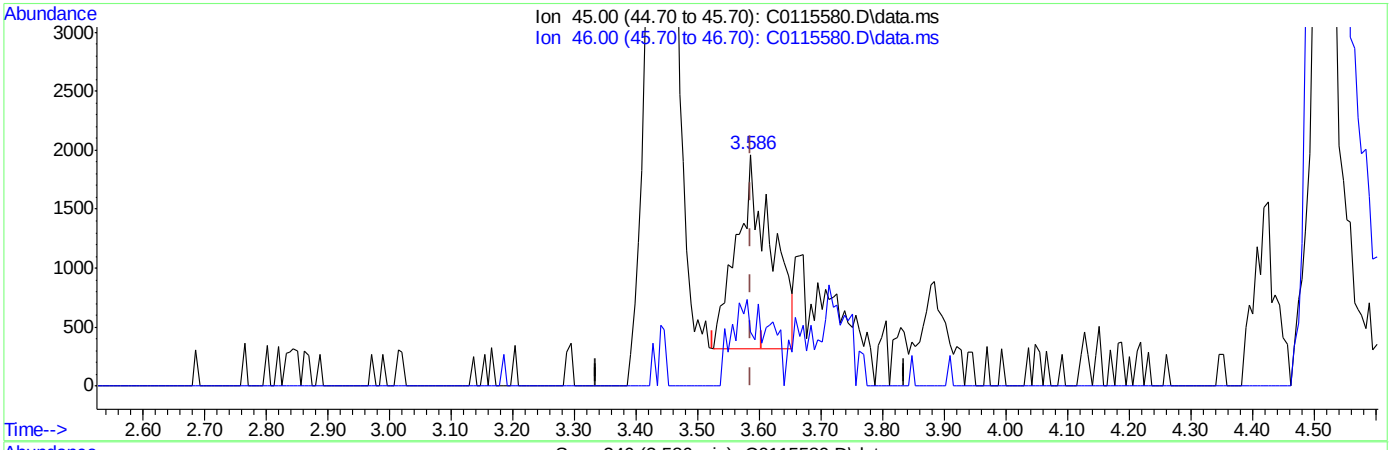
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	28.02
0.00	0.00	0.00
0.00	0.00	0.00

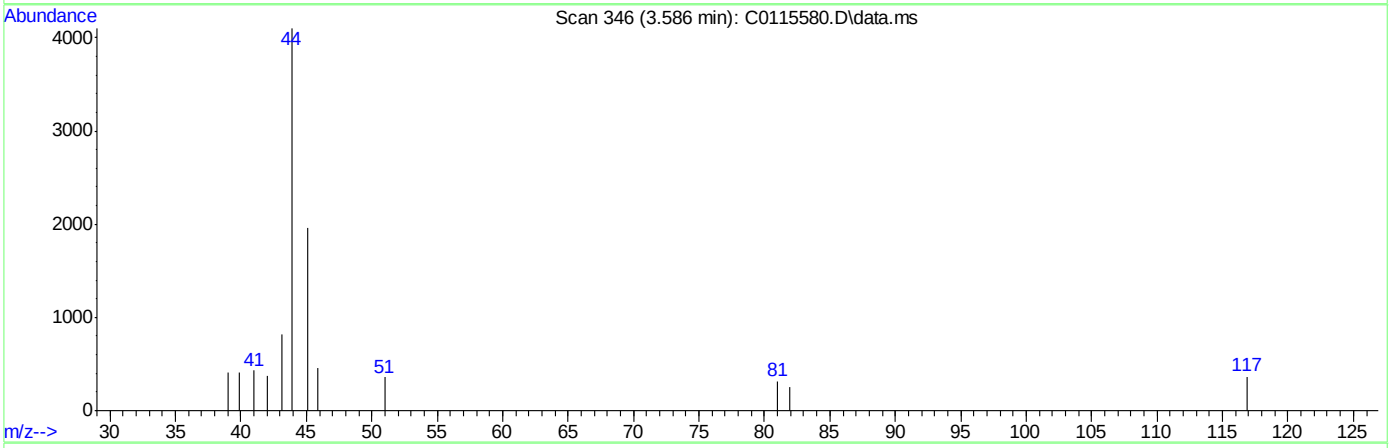
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115580.D
Acq On : 12 May 2016 12:25 pm
Operator : ericp
Sample : IC4595-2 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 12 12:43:15 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 12:22:13 2016
Response via : Initial Calibration





TIC: C0115580.D\data.ms

(104) Ethanol

3.586min (+0.000) 652.64ug/Kg m

response 6409

Ion	Exp%	Act%
45.00	100	100
46.00	30.00	23.54
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 07:23:45 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.890	96	894471	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	601655	50.00	ug/Kg	-0.01
76) 1,4-Dichlorobenzene-d4	12.371	152	284159	50.00	ug/Kg	-0.02
103) Tert Butyl Alcohol-d10	4.529	65	99651	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	263701	47.52	ug/Kg	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.04%			
44) 1,2-Dichloroethane-d4	6.616	65	299512	48.18	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 96.36%			
55) Toluene-d8	8.453	98	848213	50.22	ug/Kg	-0.01
Spiked Amount 50.000	Range 75 - 126		Recovery = 100.44%			
77) 4-Bromofluorobenzene	11.227	174	180730	52.71	ug/Kg	-0.01
Spiked Amount 50.000	Range 71 - 133		Recovery = 105.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.230	85	217475	19.57	ug/Kg	95
3) Chloromethane	2.418	50	217816	19.93	ug/Kg	99
4) Vinyl Chloride	2.528	62	179858	20.34	ug/Kg	95
5) Bromomethane	2.881	94	93514	19.32	ug/Kg	97
6) Chloroethane	3.014	64	80544	19.07	ug/Kg	94
7) Trichlorofluoromethane	3.167	101	236262	20.64	ug/Kg	93
8) Ethyl Ether	3.440	59	90810	19.91	ug/Kg	92
9) 1,2-Dichlorotrifluoroe...	3.659	67	163485	19.37	ug/Kg	85
10) 1,1-Dichloroethene	3.671	61	224108	19.46	ug/Kg	97
11) Freon 113	3.726	101	140014	18.04	ug/Kg	89
12) Carbon Disulfide	3.720	76	449195	19.18	ug/Kg	94
13) Iodomethane	3.830	142	226639	19.74	ug/Kg	95
14) Allyl chloride	4.152	41	195730	20.36	ug/Kg	82
15) Methylene Chloride	4.262	49	181625	17.74	ug/Kg	98
16) Acetone	4.310	43	149770	93.60	ug/Kg	93
17) Methyl acetate	4.420	43	276108m	90.76	ug/Kg	
18) trans-1,2-Dichloroethene	4.420	61	186206	19.21	ug/Kg	94
19) Hexane	4.487	56	97669	18.38	ug/Kg	93
20) Methyl Tert Butyl Ether	4.511	73	316861	19.55	ug/Kg	90
21) Acetonitrile	4.791	41	84412	178.86	ug/Kg	88
22) Di-isopropyl ether	4.882	45	330022	19.91	ug/Kg	96
23) Chloroprene	5.022	53	236772	20.12	ug/Kg	93
24) 1,1-Dichloroethane	5.046	63	241962	19.54	ug/Kg	99
25) Acrylonitrile	5.107	52	118730	96.42	ug/Kg	86
26) ETBE	5.253	59	341370	20.05	ug/Kg	95
27) Vinyl acetate	5.278	43	827704	104.85	ug/Kg	97
28) cis-1,2-Dichloroethene	5.594	96	151622	19.51	ug/Kg	97
29) 2,2-Dichloropropane	5.709	77	182618	19.11	ug/Kg	92
30) Bromochloromethane	5.807	128	66573	18.93	ug/Kg#	85
31) Cyclohexane	5.807	84	207299	19.54	ug/Kg	93
32) Chloroform	5.868	83	270537	19.65	ug/Kg	97
33) Ethyl acetate	5.965	43	301967	103.35	ug/Kg	98
34) Tetrahydrofuran	6.044	42	18556	17.77	ug/Kg	93

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 07:23:45 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.020	117	252406	21.37	ug/Kg	96
37)	1,1,1-Trichloroethane	6.093	97	245338	20.06	ug/Kg	96
38)	2-Butanone	6.184	43	174793	101.70	ug/Kg	97
39)	1,1-Dichloropropene	6.214	75	177114	20.04	ug/Kg	92
40)	Propionitrile	6.506	54	112943	192.46	ug/Kg	92
41)	Methacrylonitrile	6.519	41	445662	202.20	ug/Kg	92
42)	Benzene	6.476	78	498146	20.10	ug/Kg	96
43)	TAME	6.561	73	286775	19.47	ug/Kg	95
45)	1,2-Dichloroethane	6.683	62	168173	20.00	ug/Kg	94
46)	Trichloroethene	7.060	95	130037	19.87	ug/Kg	96
47)	Methylcyclohexane	7.048	83	216655	19.88	ug/Kg	95
48)	Dibromomethane	7.498	93	71236	19.93	ug/Kg	87
49)	1,2-Dichloropropane	7.589	63	108963	20.22	ug/Kg	83
50)	Bromodichloromethane	7.644	83	159042	20.07	ug/Kg	95
51)	Methyl methacrylate	7.772	41	49454	23.58	ug/Kg	88
52)	2-Chloroethyl vinyl ether	8.192	63	186536	136.59	ug/Kg	95
53)	cis-1,3-Dichloropropene	8.271	75	148805	23.17	ug/Kg	96
56)	Toluene	8.508	91	443495	20.54	ug/Kg	95
57)	2-Nitropropane	8.745	41	106332	107.81	ug/Kg	96
58)	4-Methyl-2-pentanone	8.867	43	410939	109.14	ug/Kg	92
59)	trans-1,3-Dichloropropene	8.915	75	102371	22.09	ug/Kg#	81
60)	Tetrachloroethene	8.897	166	103314	19.38	ug/Kg	96
61)	Ethyl methacrylate	9.043	69	68579	23.62	ug/Kg	90
62)	1,1,2-Trichloroethane	9.080	83	69462	20.31	ug/Kg	96
63)	Dibromochloromethane	9.262	129	87179	20.98	ug/Kg	89
64)	1,3-Dichloropropane	9.360	76	118400	21.20	ug/Kg	96
65)	1,2-Dibromoethane	9.512	107	70503	21.80	ug/Kg	99
66)	2-hexanone	9.694	43	197574	121.45	ug/Kg	95
67)	1-Chlorohexane	9.974	91	121321	23.84	ug/Kg	88
68)	Ethylbenzene	10.035	91	477166	20.46	ug/Kg	99
69)	Chlorobenzene	10.023	112	261146	20.34	ug/Kg	98
70)	1,1,1,2-Tetrachloroethane	10.084	131	111954	19.59	ug/Kg	86
71)	m,p-Xylene	10.175	91	722777	43.04	ug/Kg	99
72)	o-Xylene	10.613	91	390562	23.68	ug/Kg	99
73)	Styrene	10.668	104	237212	23.14	ug/Kg	96
74)	Bromoform	10.716	173	44124	21.64	ug/Kg	93
75)	Isopropylbenzene	10.923	105	460921	23.07	ug/Kg	98
78)	cis-1,4-Dichloro-2-butene	11.288	53	16879	24.74	ug/Kg	81
79)	n-Propylbenzene	11.343	91	532564	21.99	ug/Kg	96
80)	Bromobenzene	11.343	156	97816	20.83	ug/Kg	96
81)	1,1,2,2-Tetrachloroethane	11.422	83	116932	20.91	ug/Kg	95
82)	1,3,5-Trimethylbenzene	11.531	105	407145	22.75	ug/Kg	98
83)	2-Chlorotoluene	11.519	91	387846	21.74	ug/Kg	94
84)	trans-1,4-Dichloro-2-B...	11.604	53	17091	22.90	ug/Kg	90
85)	1,2,3-Trichloropropane	11.574	110	29053	20.16	ug/Kg	98
86)	Cyclohexanone	11.629	55	14495	114.24	ug/Kg	93
87)	4-Chlorotoluene	11.690	91	311701	22.12	ug/Kg	97
88)	tert-Butylbenzene	11.866	91	247996	25.48	ug/Kg	93
89)	1,2,4-Trimethylbenzene	11.939	105	390983	22.73	ug/Kg	98
90)	Pentachloroethane	11.909	167	66160	21.91	ug/Kg	88

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 07:23:45 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.049	105	491352	22.96	ug/Kg	95
92) 4-Isopropyltoluene	12.188	119	393836	24.04	ug/Kg	96
93) 1,3-Dichlorobenzene	12.298	146	188183	19.95	ug/Kg	97
94) 1,4-Dichlorobenzene	12.389	146	179447	19.40	ug/Kg	96
95) n-Butylbenzene	12.633	92	220580	22.57	ug/Kg#	77
96) Benzyl Chloride	12.645	126	38177	22.19	ug/Kg#	49
97) 1,2-Dichlorobenzene	12.833	146	195122	20.68	ug/Kg	96
98) 1,2-Dibromo-3-Chloropr...	13.642	75	23446	20.39	ug/Kg	84
99) Hexachlorobutadiene	14.220	225	73977	19.03	ug/Kg	81
100) 1,2,4-Trichlorobenzene	14.263	180	122514	19.37	ug/Kg	94
101) Naphthalene	14.555	128	342090	21.81	ug/Kg	100
102) 1,2,3-Trichlorobenzene	14.713	180	128101	18.90	ug/Kg	98
104) Ethanol	3.586	45	14321m	1354.17	ug/Kg	
105) Acrolein	4.024	56	69132	116.50	ug/Kg	98
106) Tert butyl alcohol	4.596	59	104165	204.79	ug/Kg	95
107) Isobutyl alcohol	6.652	42	41696	408.50	ug/Kg	82
108) Tert Amyl Alcohol	6.750	59	80148	225.21	ug/Kg	93
109) 1,4-Dioxane	7.845	88	16854	503.06	ug/Kg	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.3

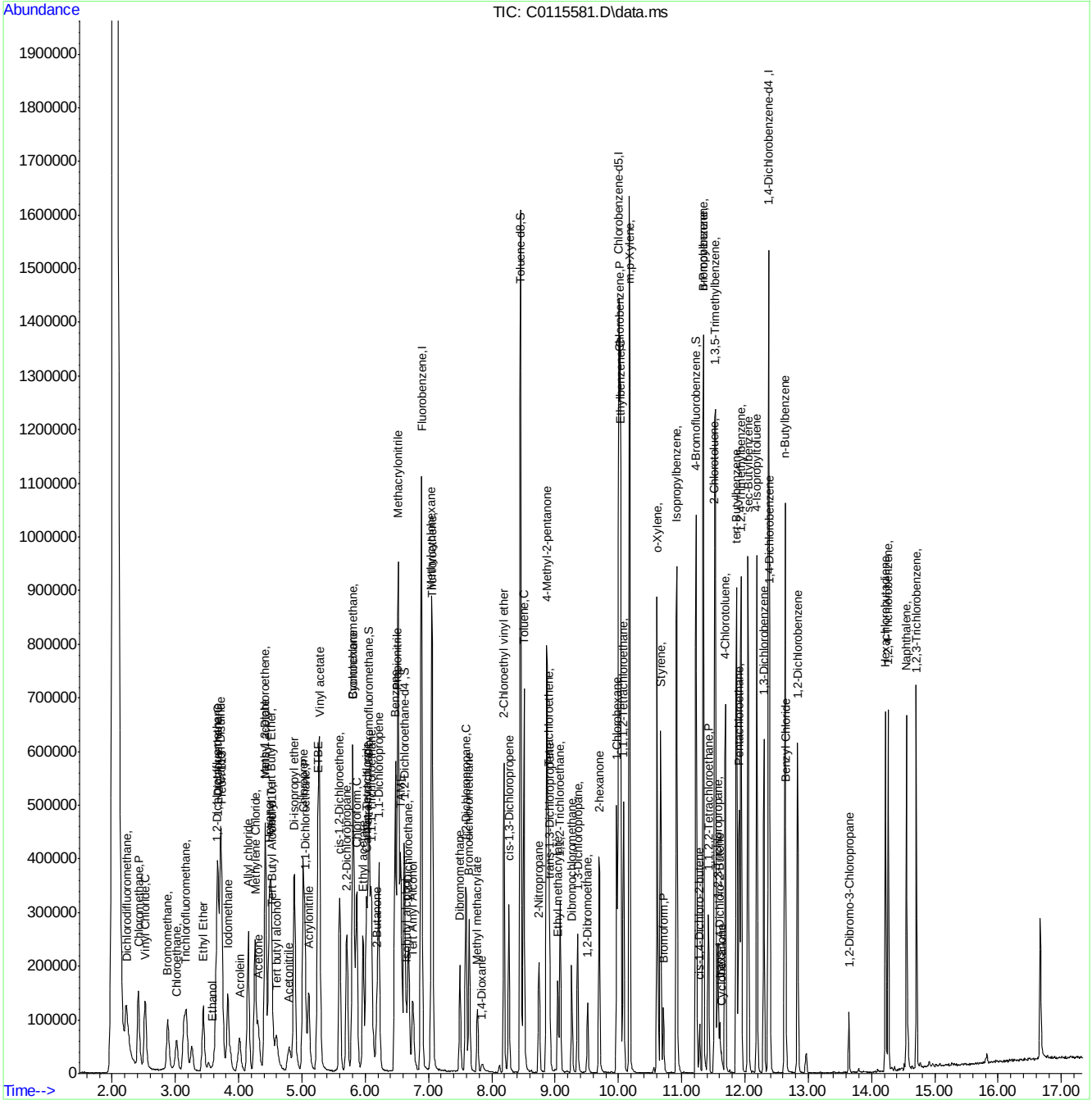
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 13 07:23:45 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

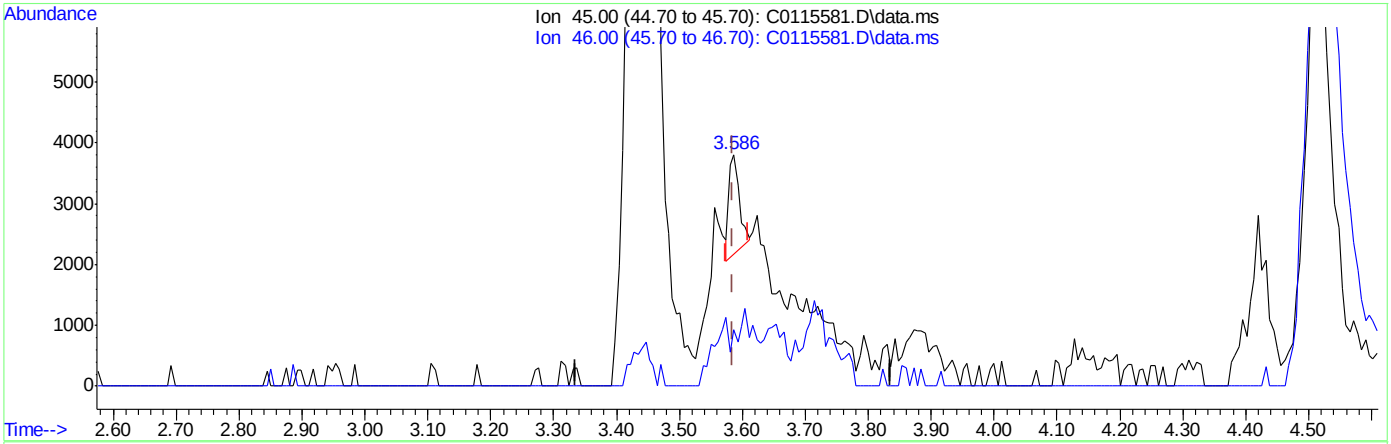
Sample Number:	VC4595-IC4595	**Method:**	SW846 8260B
Lab FileID:	C0115581.D	**Analyst approved:**	05/13/16 08:01 Eric Parrish
Injection Time:	05/12/16 12:51	**Supervisor approved:**	05/13/16 11:58 Melissa Mangual

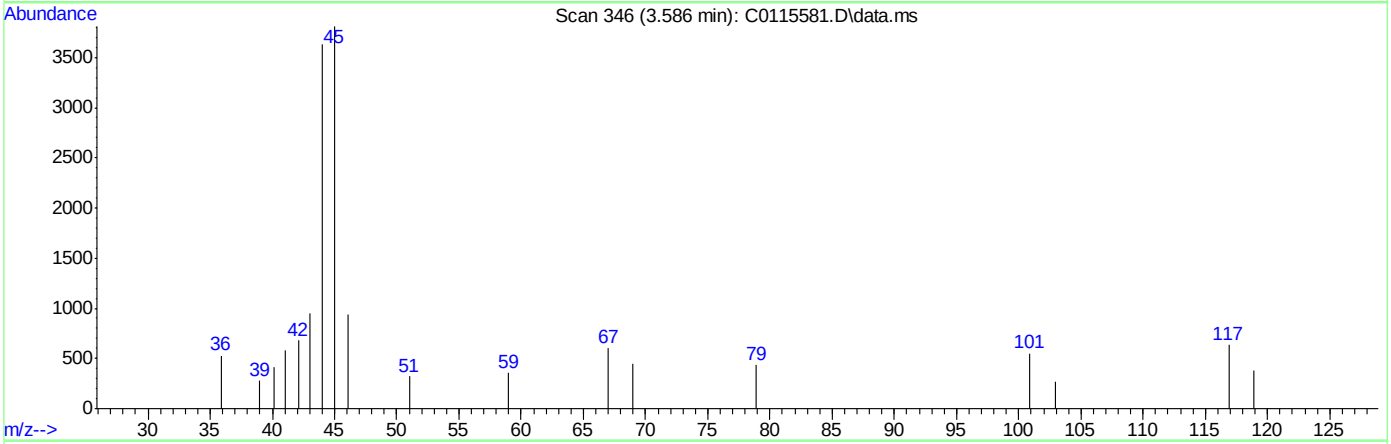
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.59	Split peak
Methyl Acetate	79-20-9		4.42	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 12 13:16:02 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration





TIC: C0115581.D\data.ms

(104) Ethanol

3.586min (+0.000) 178.43ug/Kg

response 1887

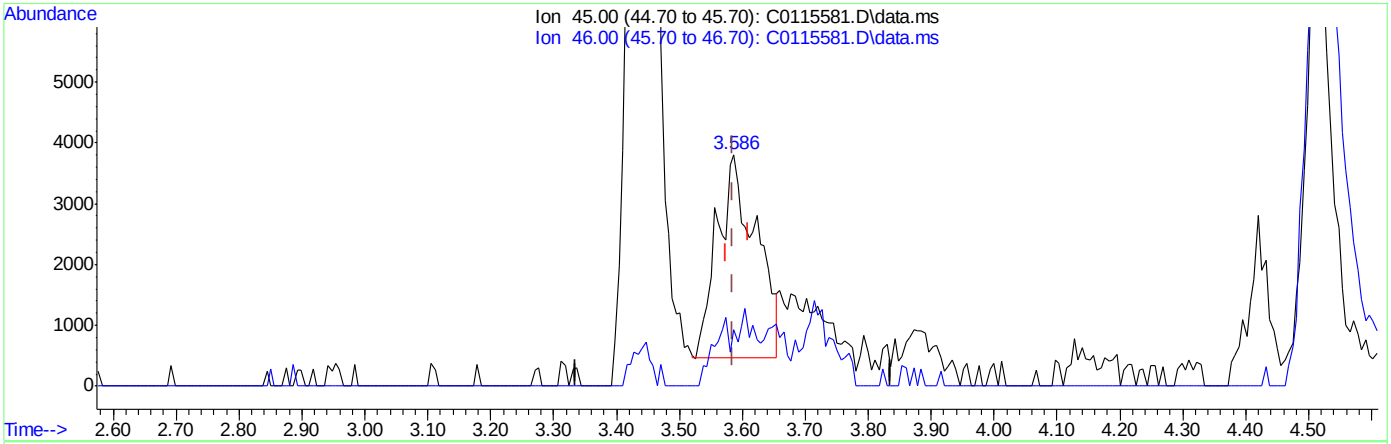
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	9.77
0.00	0.00	0.00
0.00	0.00	0.00

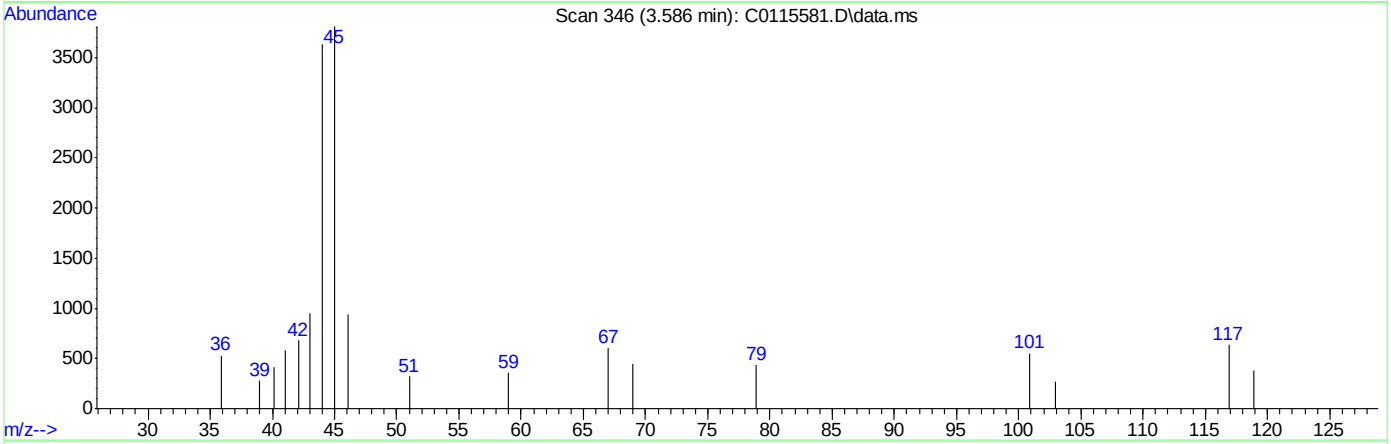
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 12 13:16:02 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration





TIC: C0115581.D\data.ms

(104) Ethanol

3.586min (+0.000) 1354.17ug/Kg m

response 14321

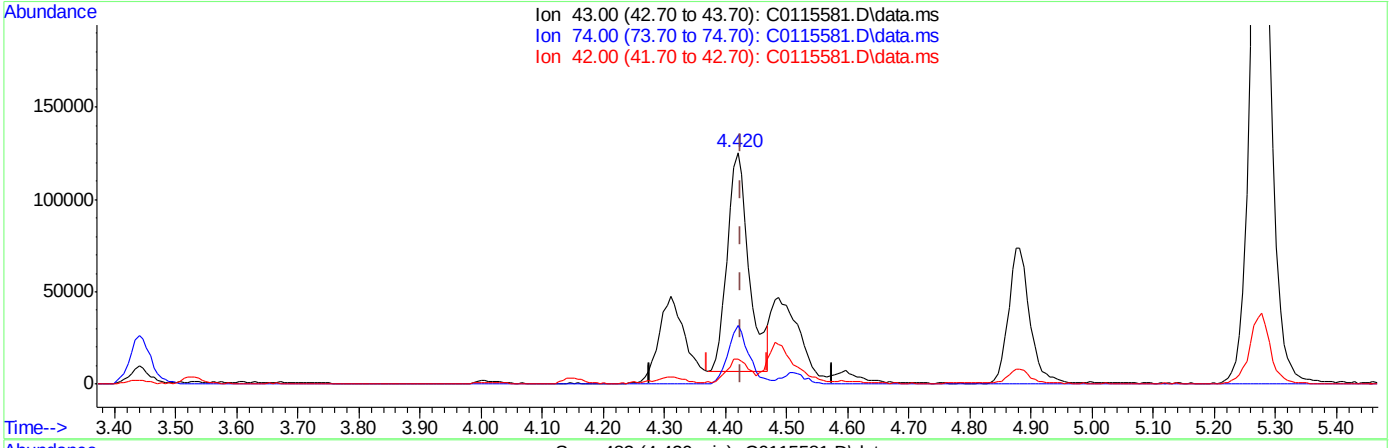
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	24.57
0.00	0.00	0.00
0.00	0.00	0.00

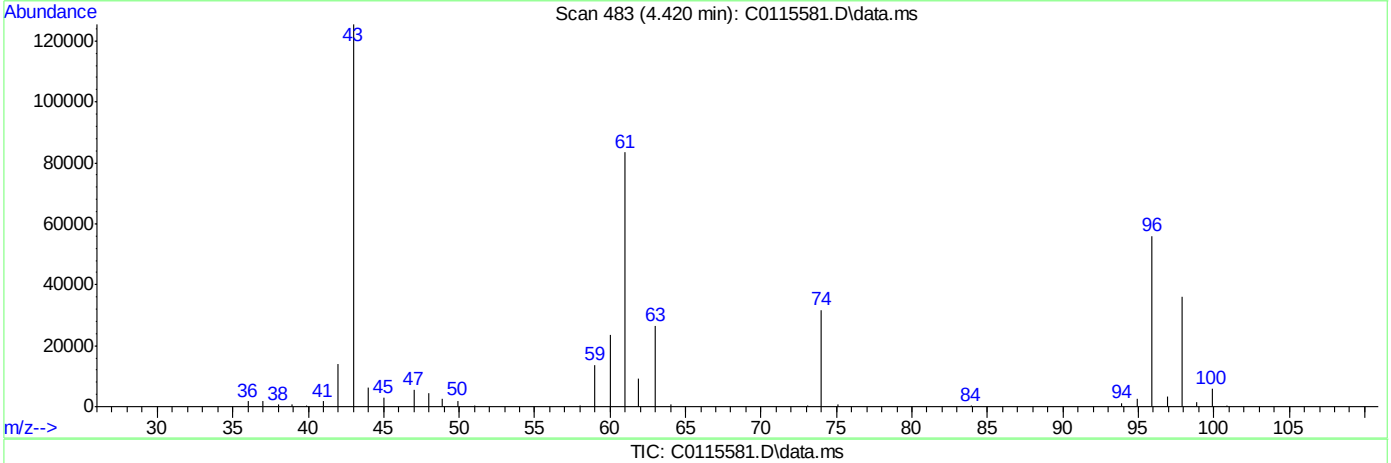
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 12 13:38:57 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration





TIC: C0115581.D\data.ms

(17) Methyl acetate

4.420min (-0.006) 96.28ug/Kg

response 292915

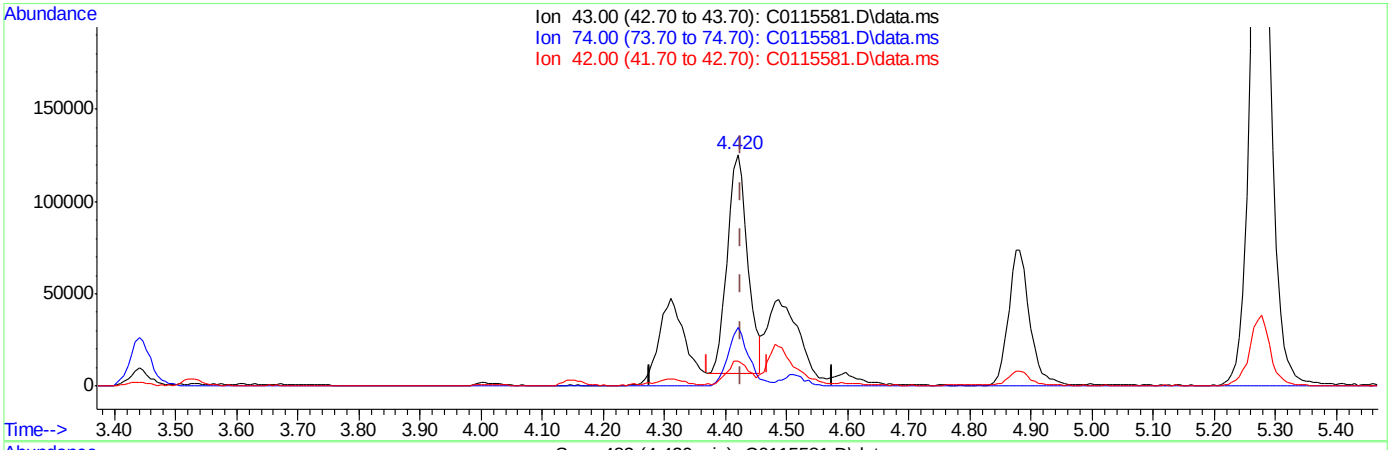
Ion	Exp%	Act%
43.00	100	100
74.00	28.40	26.82
42.00	15.10	10.71
0.00	0.00	0.00

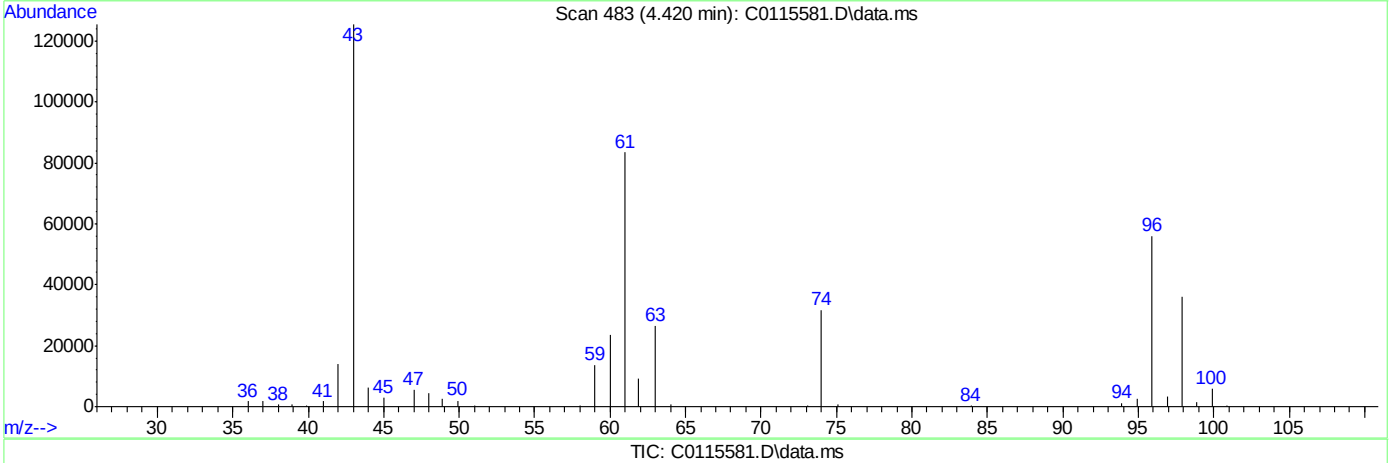
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115581.D
Acq On : 12 May 2016 12:51 pm
Operator : ericp
Sample : IC4595-3 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 12 13:38:57 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:09:20 2016
Response via : Initial Calibration





TIC: C0115581.D\data.ms

(17) Methyl acetate

4.420min (-0.006) 90.76ug/Kg m

response 276108

Ion	Exp%	Act%
43.00	100	100
74.00	28.40	25.29
42.00	15.10	11.02
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 07:23:13 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	956915	50.00	ug/Kg	-0.01
54) Chlorobenzene-d5	10.004	117	606301	50.00	ug/Kg	-0.01
76) 1,4-Dichlorobenzene-d4	12.371	152	290940	50.00	ug/Kg	-0.02
103) Tert Butyl Alcohol-d10	4.523	65	96168	250.00	ug/Kg	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	277941	46.82	ug/Kg	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.64%			
44) 1,2-Dichloroethane-d4	6.616	65	309335	46.51	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 93.02%			
55) Toluene-d8	8.453	98	896191	52.65	ug/Kg	-0.01
Spiked Amount 50.000	Range 75 - 126		Recovery = 105.30%			
77) 4-Bromofluorobenzene	11.227	174	190458	54.25	ug/Kg	-0.01
Spiked Amount 50.000	Range 71 - 133		Recovery = 108.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.224	85	520326	43.77	ug/Kg	93
3) Chloromethane	2.412	50	503697	43.08	ug/Kg	99
4) Vinyl Chloride	2.522	62	411678	43.51	ug/Kg	99
5) Bromomethane	2.874	94	185022	35.73	ug/Kg	97
6) Chloroethane	3.021	64	158802	35.14	ug/Kg	91
7) Trichlorofluoromethane	3.167	101	551651	45.04	ug/Kg	99
8) Ethyl Ether	3.440	59	217267	44.52	ug/Kg	92
9) 1,2-Dichlorotrifluoroe...	3.665	67	354930	39.32	ug/Kg	87
10) 1,1-Dichloroethene	3.665	61	511494	41.51	ug/Kg	97
11) Freon 113	3.720	101	328969	39.61	ug/Kg	91
12) Carbon Disulfide	3.714	76	1000993	39.95	ug/Kg	94
13) Iodomethane	3.824	142	528559	43.04	ug/Kg	97
14) Allyl chloride	4.146	41	452842	44.04	ug/Kg	84
15) Methylene Chloride	4.255	49	387020	35.34	ug/Kg	100
16) Acetone	4.310	43	325121	189.93	ug/Kg	95
17) Methyl acetate	4.420	43	614014m	188.66	ug/Kg	
18) trans-1,2-Dichloroethene	4.420	61	430133	41.47	ug/Kg	96
19) Hexane	4.481	56	234023	41.17	ug/Kg	93
20) Methyl Tert Butyl Ether	4.511	73	782354	45.11	ug/Kg	95
21) Acetonitrile	4.797	41	182340	361.15	ug/Kg	94
22) Di-isopropyl ether	4.882	45	814403	45.94	ug/Kg	95
23) Chloroprene	5.016	53	593910	47.18	ug/Kg	92
24) 1,1-Dichloroethane	5.046	63	562483	42.45	ug/Kg	99
25) Acrylonitrile	5.107	52	274974	208.74	ug/Kg	90
26) ETBE	5.253	59	850059	46.67	ug/Kg	96
27) Vinyl acetate	5.277	43	1870503	221.49	ug/Kg	96
28) cis-1,2-Dichloroethene	5.594	96	377397	45.39	ug/Kg	98
29) 2,2-Dichloropropane	5.709	77	411042	40.21	ug/Kg	96
30) Bromochloromethane	5.807	128	161503	42.93	ug/Kg#	87
31) Cyclohexane	5.813	84	498992	43.96	ug/Kg	94
32) Chloroform	5.868	83	608485	41.31	ug/Kg	99
33) Ethyl acetate	5.965	43	733146	234.55	ug/Kg	99
34) Tetrahydrofuran	6.044	42	41559	37.20	ug/Kg	91

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 07:23:13 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.020	117	600911	47.55	ug/Kg	95
37)	1,1,1-Trichloroethane	6.093	97	571742	43.69	ug/Kg	96
38)	2-Butanone	6.184	43	426588	232.01	ug/Kg	95
39)	1,1-Dichloropropene	6.214	75	447313	47.30	ug/Kg	90
40)	Propionitrile	6.506	54	255787	407.44	ug/Kg	84
41)	Methacrylonitrile	6.519	41	1071886	454.60	ug/Kg	94
42)	Benzene	6.470	78	1200712	45.29	ug/Kg	96
43)	TAME	6.561	73	754201	47.87	ug/Kg	94
45)	1,2-Dichloroethane	6.683	62	413256	45.94	ug/Kg	94
46)	Trichloroethene	7.054	95	331915	47.40	ug/Kg	94
47)	Methylcyclohexane	7.048	83	544967	46.75	ug/Kg	97
48)	Dibromomethane	7.498	93	195229	51.07	ug/Kg	82
49)	1,2-Dichloropropane	7.589	63	300743	52.17	ug/Kg	81
50)	Bromodichloromethane	7.644	83	423244	49.92	ug/Kg	97
51)	Methyl methacrylate	7.772	41	129620	38.19	ug/Kg	90
52)	2-Chloroethyl vinyl ether	8.192	63	497663	171.33	ug/Kg	96
53)	cis-1,3-Dichloropropene	8.271	75	395640	57.59	ug/Kg	93
56)	Toluene	8.502	91	1104743	50.77	ug/Kg	94
57)	2-Nitropropane	8.745	41	273054	274.73	ug/Kg	97
58)	4-Methyl-2-pentanone	8.867	43	985070	259.62	ug/Kg	93
59)	trans-1,3-Dichloropropene	8.915	75	257781	55.20	ug/Kg	97
60)	Tetrachloroethene	8.891	166	259050	48.22	ug/Kg	85
61)	Ethyl methacrylate	9.043	69	209561	42.26	ug/Kg	92
62)	1,1,2-Trichloroethane	9.080	83	168238	48.82	ug/Kg	93
63)	Dibromochloromethane	9.262	129	234906	56.09	ug/Kg	96
64)	1,3-Dichloropropane	9.360	76	309031	54.90	ug/Kg	97
65)	1,2-Dibromoethane	9.512	107	174369	53.50	ug/Kg	99
66)	2-hexanone	9.694	43	518749	187.63	ug/Kg	97
67)	1-Chlorohexane	9.974	91	343635	40.81	ug/Kg	95
68)	Ethylbenzene	10.035	91	1166986	49.64	ug/Kg	99
69)	Chlorobenzene	10.023	112	634519	49.04	ug/Kg	98
70)	1,1,1,2-Tetrachloroethane	10.084	131	296328	51.45	ug/Kg	93
71)	m,p-Xylene	10.175	91	1786473	105.57	ug/Kg	96
72)	o-Xylene	10.613	91	1074360	40.25	ug/Kg	97
73)	Styrene	10.668	104	628286	39.61	ug/Kg	96
74)	Bromoform	10.716	173	107626	52.38	ug/Kg	91
75)	Isopropylbenzene	10.923	105	1269150	41.59	ug/Kg	99
78)	cis-1,4-Dichloro-2-butene	11.288	53	42433	35.49	ug/Kg	85
79)	n-Propylbenzene	11.343	91	1344065	54.19	ug/Kg	99
80)	Bromobenzene	11.343	156	239030	49.72	ug/Kg	99
81)	1,1,2,2-Tetrachloroethane	11.422	83	266616	46.56	ug/Kg	99
82)	1,3,5-Trimethylbenzene	11.531	105	1065088	40.61	ug/Kg	99
83)	2-Chlorotoluene	11.519	91	995708	54.51	ug/Kg	97
84)	trans-1,4-Dichloro-2-B...	11.604	53	43145	56.45	ug/Kg	85
85)	1,2,3-Trichloropropane	11.574	110	67834	45.98	ug/Kg	93
86)	Cyclohexanone	11.629	55	39091	300.90	ug/Kg	97
87)	4-Chlorotoluene	11.690	91	830554	57.56	ug/Kg	96
88)	tert-Butylbenzene	11.866	91	723763	39.02	ug/Kg	95
89)	1,2,4-Trimethylbenzene	11.939	105	1028565	40.87	ug/Kg	97
90)	Pentachloroethane	11.909	167	172272	55.73	ug/Kg	87

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 07:23:13 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.049	105	1335452	40.24	ug/Kg	98
92)	4-Isopropyltoluene	12.188	119	1099442	40.07	ug/Kg	99
93)	1,3-Dichlorobenzene	12.298	146	489036	50.65	ug/Kg	98
94)	1,4-Dichlorobenzene	12.389	146	456908	48.23	ug/Kg	97
95)	n-Butylbenzene	12.626	92	615106	42.96	ug/Kg	98
96)	Benzyl Chloride	12.645	126	93667	53.18	ug/Kg#	51
97)	1,2-Dichlorobenzene	12.833	146	499405	51.69	ug/Kg	96
98)	1,2-Dibromo-3-Chloropr...	13.642	75	60321	51.23	ug/Kg	89
99)	Hexachlorobutadiene	14.220	225	212919	53.50	ug/Kg	80
100)	1,2,4-Trichlorobenzene	14.263	180	369312	57.03	ug/Kg	93
101)	Naphthalene	14.555	128	928645	57.83	ug/Kg	99
102)	1,2,3-Trichlorobenzene	14.713	180	366215	52.77	ug/Kg	97
104)	Ethanol	3.580	45	28169m	2760.09	ug/Kg	
105)	Acrolein	4.012	56	157272	274.63	ug/Kg	98
106)	Tert butyl alcohol	4.596	59	240452	489.85	ug/Kg	95
107)	Isobutyl alcohol	6.646	42	94260	956.93	ug/Kg	87
108)	Tert Amyl Alcohol	6.756	59	189308	551.20	ug/Kg	93
109)	1,4-Dioxane	7.845	88	35832	668.94	ug/Kg	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.4

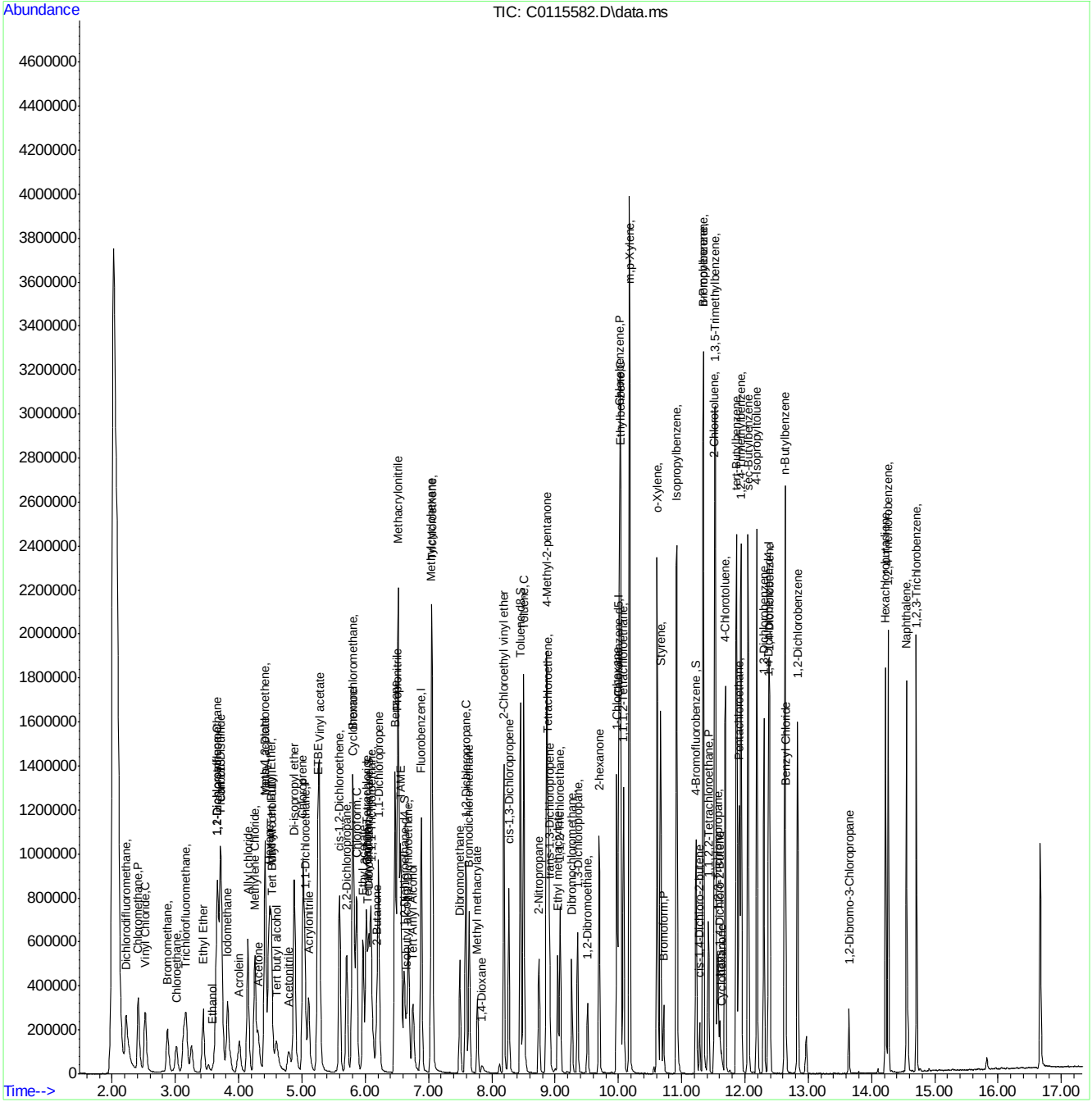
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 13 07:23:13 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

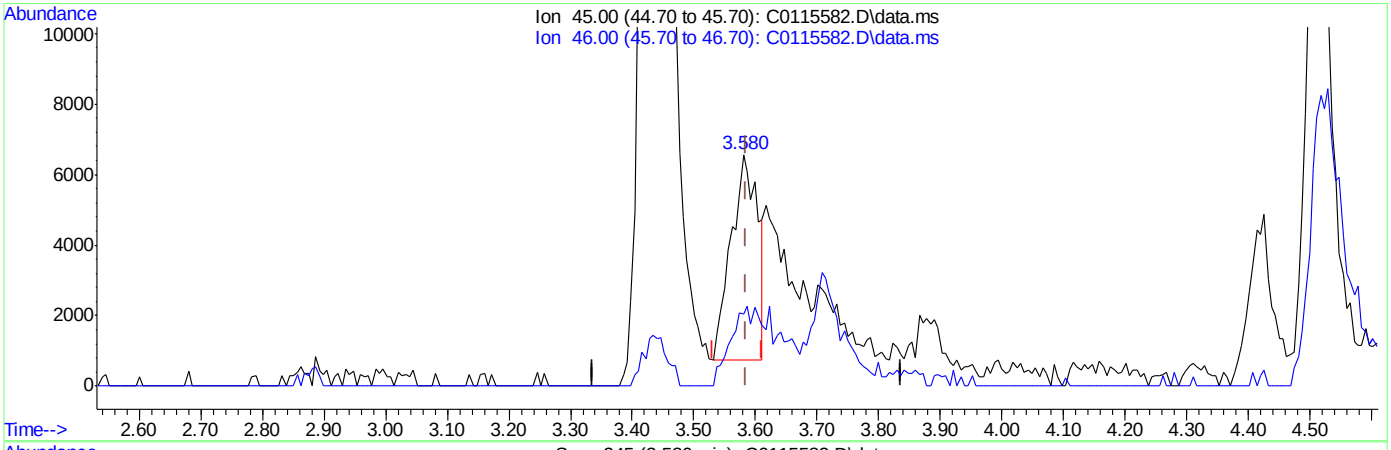
Sample Number:	VC4595-ICC4595	**Method:**	SW846 8260B
Lab FileID:	C0115582.D	**Analyst approved:**	05/13/16 08:01 Eric Parrish
Injection Time:	05/12/16 13:16	**Supervisor approved:**	05/13/16 11:58 Melissa Mangual

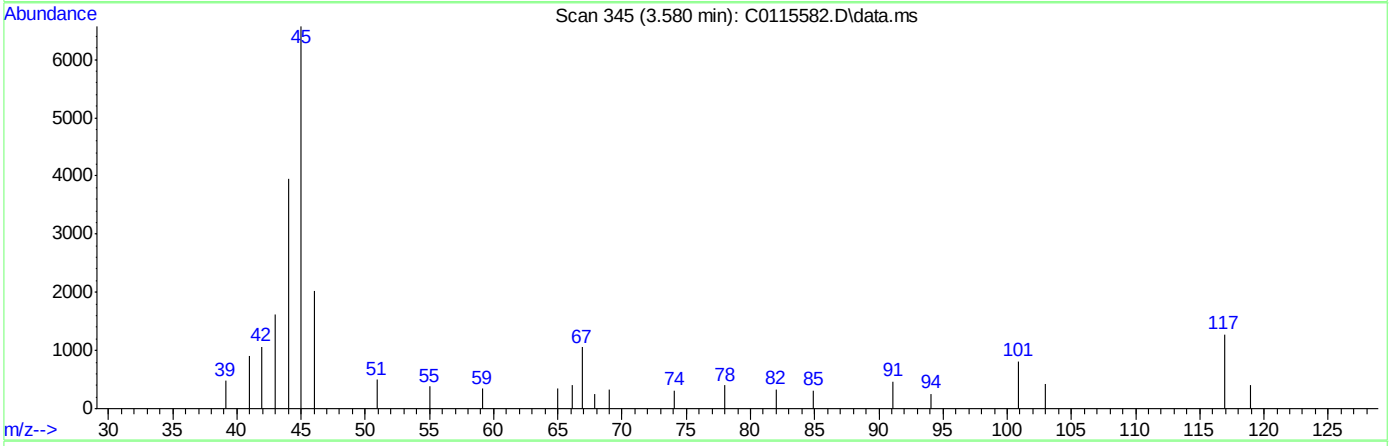
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.58	Split peak
Methyl Acetate	79-20-9		4.42	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 13:34:29 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration





TIC: C0115582.D\data.ms

(104) Ethanol

3.580min (-0.006) 1713.14ug/Kg

response 17484

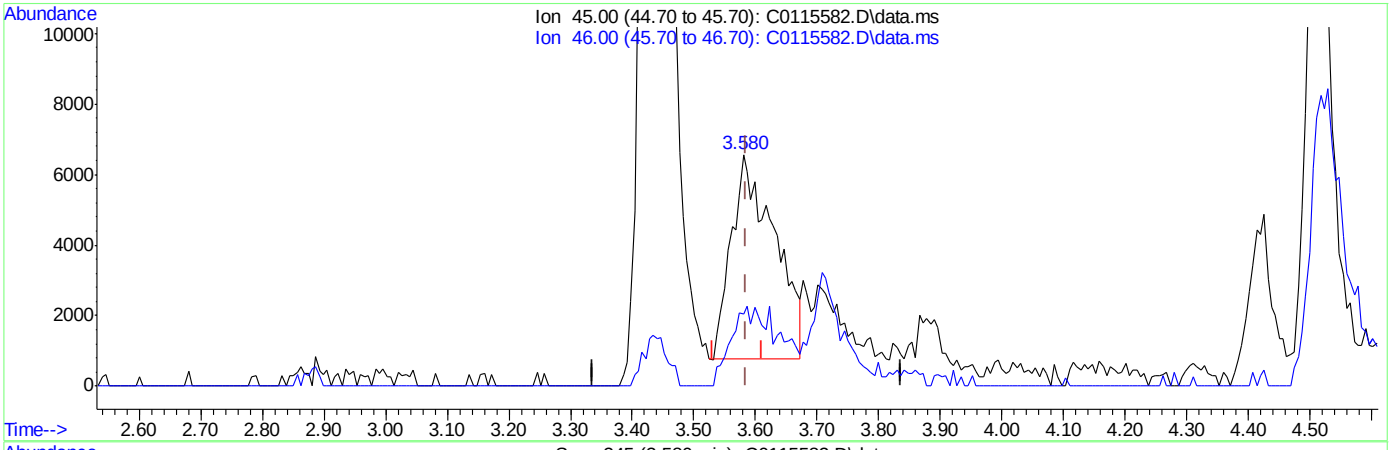
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	34.92
0.00	0.00	0.00
0.00	0.00	0.00

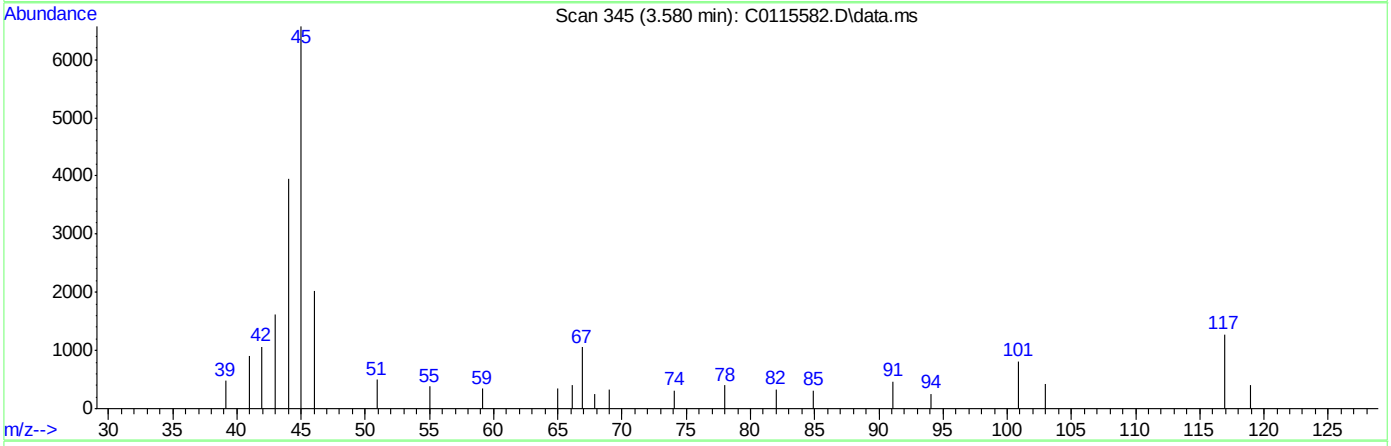
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 13:34:29 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration





TIC: C0115582.D\data.ms

(104) Ethanol

3.580min (-0.006) 2760.09ug/Kg m

response 28169

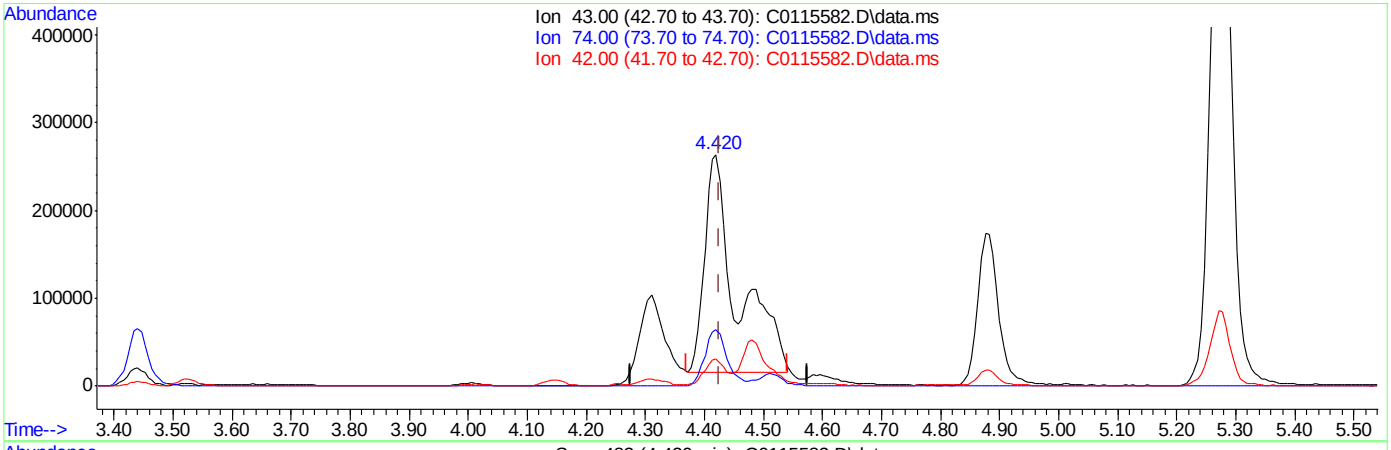
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	30.92
0.00	0.00	0.00
0.00	0.00	0.00

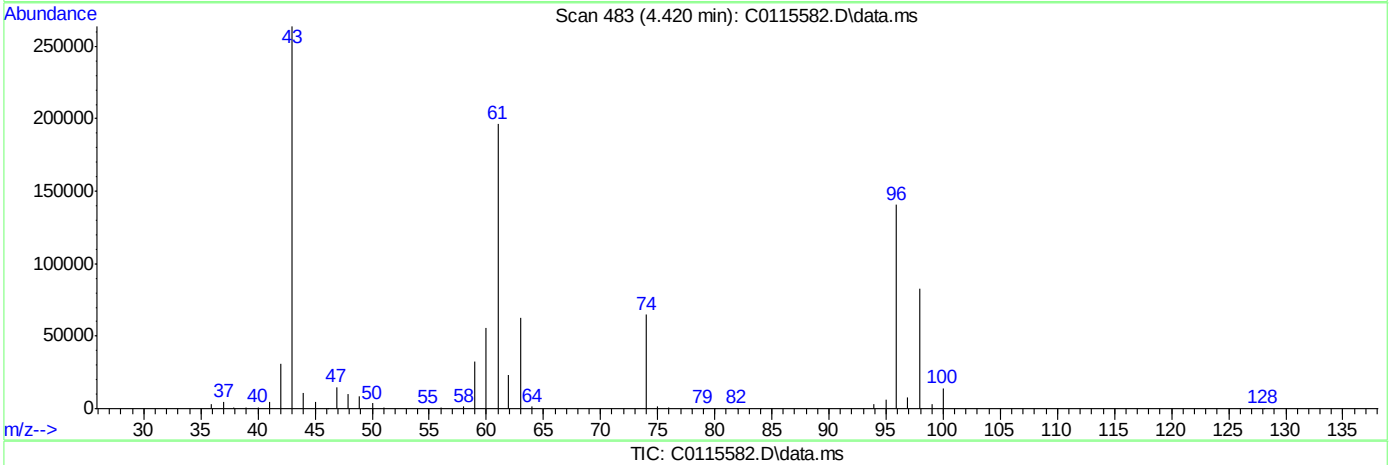
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 13:37:43 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration





TIC: C0115582.D\data.ms

(17) Methyl acetate

4.420min (-0.006) 287.15ug/Kg

response 934542

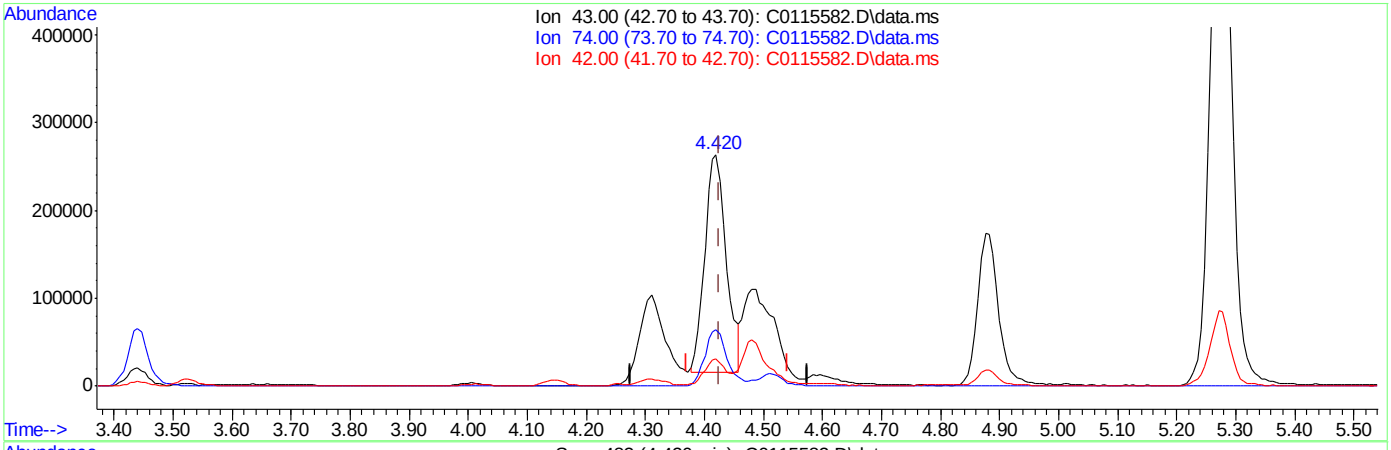
Ion	Exp%	Act%
43.00	100	100
74.00	28.40	25.92
42.00	15.10	11.83
0.00	0.00	0.00

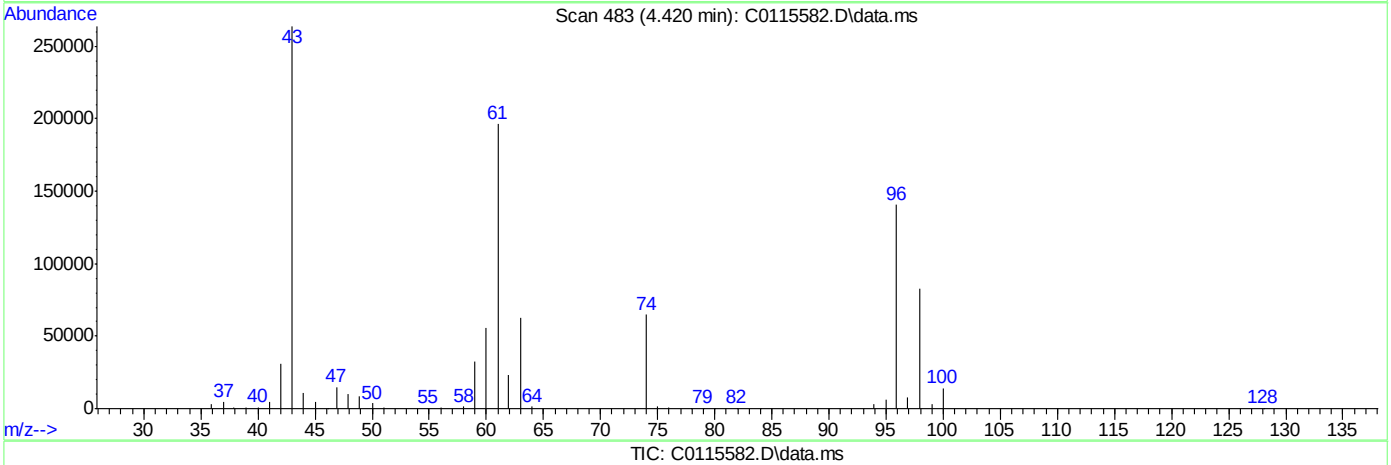
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115582.D
Acq On : 12 May 2016 1:16 pm
Operator : ericp
Sample : ICC4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 12 13:37:43 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 13:17:16 2016
Response via : Initial Calibration





TIC: C0115582.D\data.ms

(17) Methyl acetate

4.420min (-0.006) 188.66ug/Kg m

response 614014

Ion	Exp%	Act%
43.00	100	100
74.00	28.40	24.55
42.00	15.10	11.69
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 07:22:35 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.890	96	999534	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	646176	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.377	152	319029	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.529	65	103048	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	276339	46.16	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.32%			
44) 1,2-Dichloroethane-d4	6.616	65	324567	48.02	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 96.04%			
55) Toluene-d8	8.453	98	960616	51.79	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 103.58%			
77) 4-Bromofluorobenzene	11.227	174	217466	54.16	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 108.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.224	85	1026921	87.93	ug/Kg	98
3) Chloromethane	2.418	50	903850	80.42	ug/Kg	99
4) Vinyl Chloride	2.528	62	783010	84.96	ug/Kg	99
5) Bromomethane	2.875	94	346315	101.24	ug/Kg	94
6) Chloroethane	3.014	64	263283	102.21	ug/Kg	94
7) Trichlorofluoromethane	3.167	101	1030177	85.55	ug/Kg	95
8) Ethyl Ether	3.440	59	406250	85.01	ug/Kg	96
9) 1,2-Dichlorotrifluoroe...	3.671	67	635176	100.66	ug/Kg	89
10) 1,1-Dichloroethene	3.665	61	943517	80.32	ug/Kg	95
11) Freon 113	3.726	101	605588	100.43	ug/Kg	94
12) Carbon Disulfide	3.708	76	1773832	100.53	ug/Kg	94
13) Iodomethane	3.824	142	994523	83.62	ug/Kg	97
14) Allyl chloride	4.146	41	816821	81.93	ug/Kg	86
15) Methylene Chloride	4.255	49	678718	101.03	ug/Kg	99
16) Acetone	4.310	43	618021	503.17	ug/Kg	92
17) Methyl acetate	4.420	43	1109179m	315.03	ug/Kg	
18) trans-1,2-Dichloroethene	4.420	61	778425	78.99	ug/Kg	97
19) Hexane	4.481	56	437429	80.77	ug/Kg	90
20) Methyl Tert Butyl Ether	4.511	73	1489998	87.04	ug/Kg	96
21) Acetonitrile	4.791	41	342923	1007.11	ug/Kg	94
22) Di-isopropyl ether	4.882	45	1527857	86.96	ug/Kg	97
23) Chloroprene	5.016	53	1096665	87.29	ug/Kg	93
24) 1,1-Dichloroethane	5.046	63	1009912	79.68	ug/Kg	95
25) Acrylonitrile	5.107	52	535517	421.81	ug/Kg	92
26) ETBE	5.253	59	1605150	88.30	ug/Kg	97
27) Vinyl acetate	5.278	43	3517550	425.71	ug/Kg	96
28) cis-1,2-Dichloroethene	5.594	96	702878	85.79	ug/Kg	94
29) 2,2-Dichloropropane	5.703	77	685219	100.43	ug/Kg	96
30) Bromochloromethane	5.807	128	303487	83.39	ug/Kg	89
31) Cyclohexane	5.807	84	948431	85.48	ug/Kg	97
32) Chloroform	5.868	83	1149158	81.67	ug/Kg	97
33) Ethyl acetate	5.965	43	1510417	475.61	ug/Kg	99
34) Tetrahydrofuran	6.044	42	86287	100.50	ug/Kg	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 07:22:35 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.020	117	1141836	89.80	ug/Kg	95
37)	1,1,1-Trichloroethane	6.093	97	1057221	83.22	ug/Kg	94
38)	2-Butanone	6.184	43	865005	466.36	ug/Kg	94
39)	1,1-Dichloropropene	6.214	75	856113	90.04	ug/Kg	93
40)	Propionitrile	6.506	54	492335	822.21	ug/Kg	89
41)	Methacrylonitrile	6.519	41	2055729	879.74	ug/Kg	96
42)	Benzene	6.470	78	2247682	86.02	ug/Kg	99
43)	TAME	6.561	73	1461854	91.66	ug/Kg	95
45)	1,2-Dichloroethane	6.683	62	798558	89.11	ug/Kg	95
46)	Trichloroethene	7.060	95	622114	88.63	ug/Kg	99
47)	Methylcyclohexane	7.048	83	1045152	89.54	ug/Kg	98
48)	Dibromomethane	7.492	93	364465	92.49	ug/Kg#	82
49)	1,2-Dichloropropane	7.589	63	515308	87.34	ug/Kg	81
50)	Bromodichloromethane	7.644	83	783027	90.55	ug/Kg	98
51)	Methyl methacrylate	7.772	41	308181	100.09	ug/Kg	92
52)	2-Chloroethyl vinyl ether	8.192	63	1113438	499.45	ug/Kg	95
53)	cis-1,3-Dichloropropene	8.271	75	857069	111.70	ug/Kg	93
56)	Toluene	8.508	91	2168194	94.43	ug/Kg	93
57)	2-Nitropropane	8.745	41	586655	531.86	ug/Kg	91
58)	4-Methyl-2-pentanone	8.867	43	1824392	456.57	ug/Kg	95
59)	trans-1,3-Dichloropropene	8.916	75	596590	113.03	ug/Kg	95
60)	Tetrachloroethene	8.897	166	528625	94.45	ug/Kg	94
61)	Ethyl methacrylate	9.043	69	476149	99.68	ug/Kg	94
62)	1,1,2-Trichloroethane	9.080	83	338242	94.02	ug/Kg	95
63)	Dibromochloromethane	9.262	129	506602	107.95	ug/Kg	92
64)	1,3-Dichloropropane	9.360	76	671918	107.32	ug/Kg	96
65)	1,2-Dibromoethane	9.512	107	391150	108.36	ug/Kg	96
66)	2-hexanone	9.694	43	1072253	498.48	ug/Kg	94
67)	1-Chlorohexane	9.974	91	697077	99.55	ug/Kg	95
68)	Ethylbenzene	10.035	91	2172352	89.21	ug/Kg	95
69)	Chlorobenzene	10.023	112	1246212	92.51	ug/Kg	97
70)	1,1,1,2-Tetrachloroethane	10.084	131	568424	93.44	ug/Kg	88
71)	m,p-Xylene	10.175	91	3265769	182.50	ug/Kg	93
72)	o-Xylene	10.613	91	2055882	99.44	ug/Kg	93
73)	Styrene	10.668	104	1272352	98.58	ug/Kg	96
74)	Bromoform	10.716	173	245783	108.54	ug/Kg	97
75)	Isopropylbenzene	10.923	105	2405375	99.43	ug/Kg	95
78)	cis-1,4-Dichloro-2-butene	11.288	53	107013	100.04	ug/Kg	84
79)	n-Propylbenzene	11.343	91	2462057	90.73	ug/Kg	95
80)	Bromobenzene	11.343	156	492682	94.80	ug/Kg	100
81)	1,1,2,2-Tetrachloroethane	11.422	83	530963	88.51	ug/Kg	98
82)	1,3,5-Trimethylbenzene	11.538	105	2011278	99.50	ug/Kg	95
83)	2-Chlorotoluene	11.519	91	1891525	93.79	ug/Kg	99
84)	trans-1,4-Dichloro-2-B...	11.604	53	104620	116.08	ug/Kg#	75
85)	1,2,3-Trichloropropane	11.574	110	142742	91.87	ug/Kg	92
86)	Cyclohexanone	11.629	55	88634	571.02	ug/Kg	96
87)	4-Chlorotoluene	11.690	91	1592971	97.59	ug/Kg	98
88)	tert-Butylbenzene	11.866	91	1423981	99.31	ug/Kg	92
89)	1,2,4-Trimethylbenzene	11.939	105	1979368	99.55	ug/Kg	94
90)	Pentachloroethane	11.909	167	338334	97.61	ug/Kg	91

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 07:22:35 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.049	105	2619382	98.00	ug/Kg	100
92)	4-Isopropyltoluene	12.188	119	2182630	99.47	ug/Kg	97
93)	1,3-Dichlorobenzene	12.298	146	962503	92.34	ug/Kg	97
94)	1,4-Dichlorobenzene	12.389	146	913292	90.76	ug/Kg	98
95)	n-Butylbenzene	12.633	92	1199609	99.46	ug/Kg	94
96)	Benzyl Chloride	12.645	126	196056	99.94	ug/Kg#	53
97)	1,2-Dichlorobenzene	12.833	146	979322	93.22	ug/Kg	93
98)	1,2-Dibromo-3-Chloropr...	13.642	75	138210	105.04	ug/Kg	87
99)	Hexachlorobutadiene	14.220	225	435594	98.47	ug/Kg	87
100)	1,2,4-Trichlorobenzene	14.263	180	698433	95.97	ug/Kg	93
101)	Naphthalene	14.555	128	1782857	97.93	ug/Kg	97
102)	1,2,3-Trichlorobenzene	14.713	180	687480	91.09	ug/Kg	99
104)	Ethanol	3.598	45	65813m	2059.30	ug/Kg	
105)	Acrolein	4.018	56	326211	514.95	ug/Kg	99
106)	Tert butyl alcohol	4.602	59	504970	971.76	ug/Kg	94
107)	Isobutyl alcohol	6.652	42	198339	1918.83	ug/Kg	89
108)	Tert Amyl Alcohol	6.756	59	406976	1061.64	ug/Kg	99
109)	1,4-Dioxane	7.851	88	93622	2005.17	ug/Kg	93

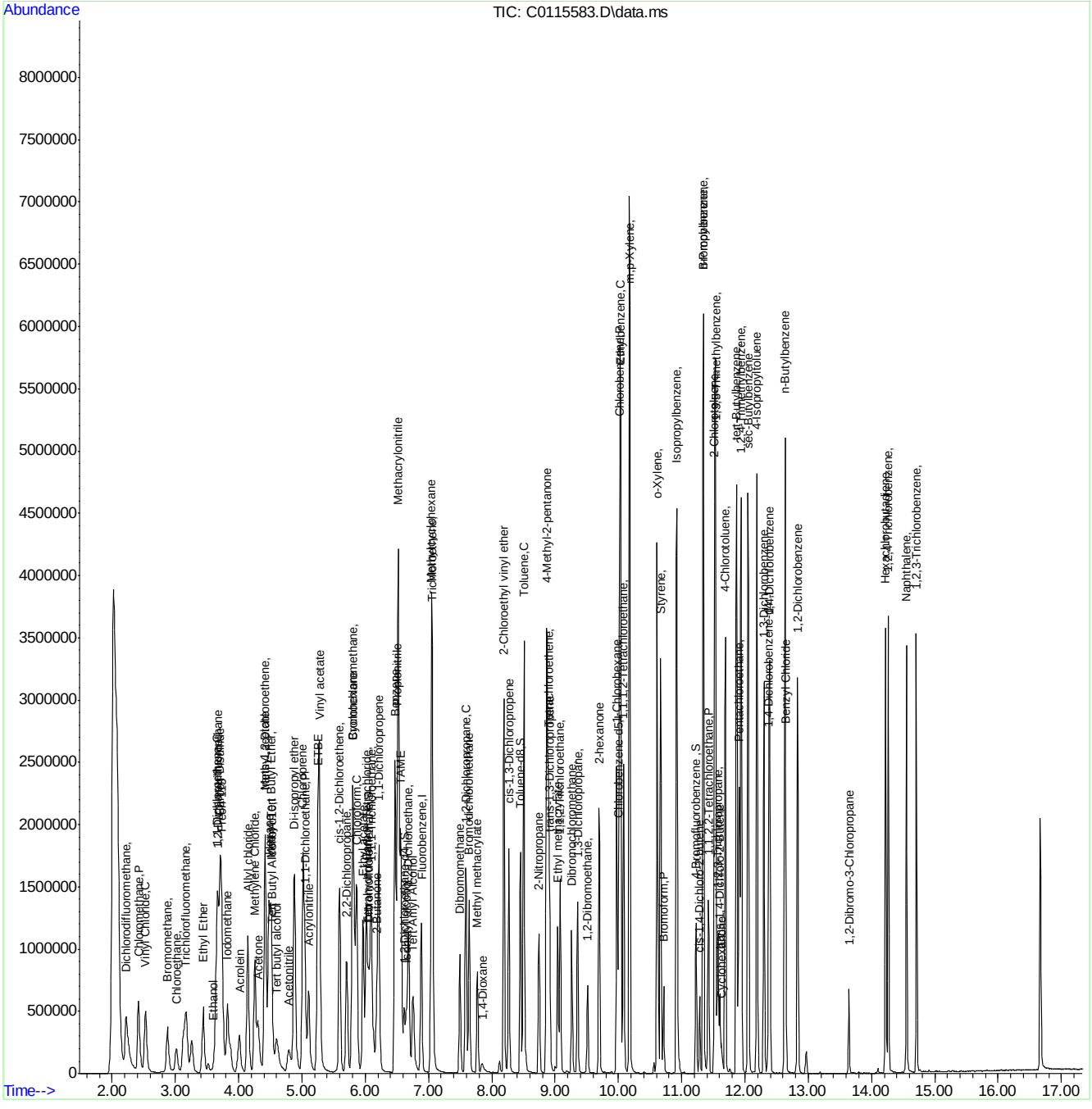
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 13 07:22:35 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

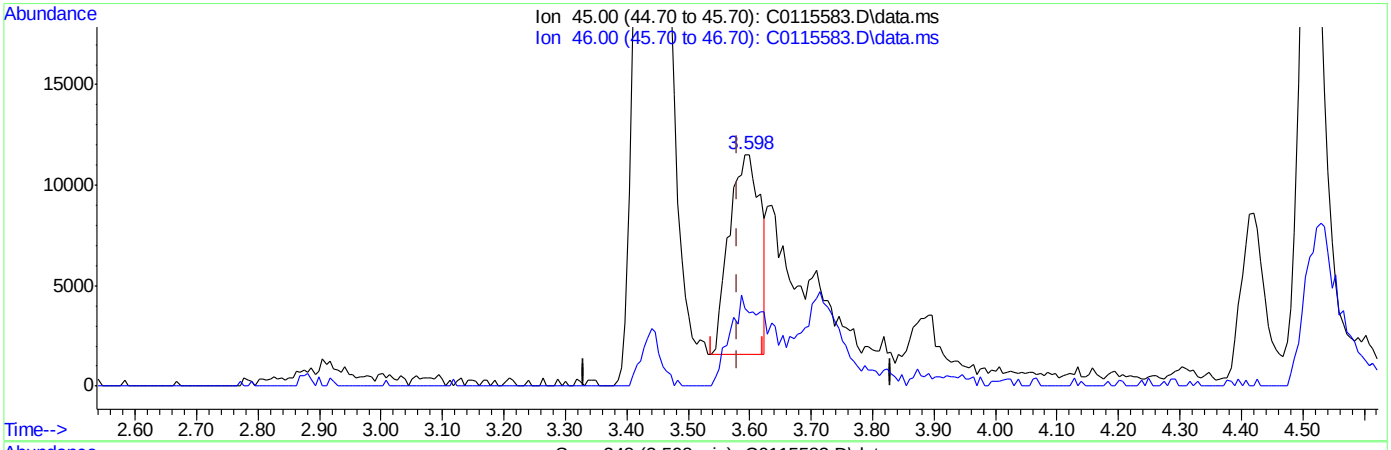
Sample Number:	VC4595-IC4595	**Method:**	SW846 8260B
Lab FileID:	C0115583.D	**Analyst approved:**	05/13/16 08:01 Eric Parrish
Injection Time:	05/12/16 13:42	**Supervisor approved:**	05/13/16 11:58 Melissa Mangual

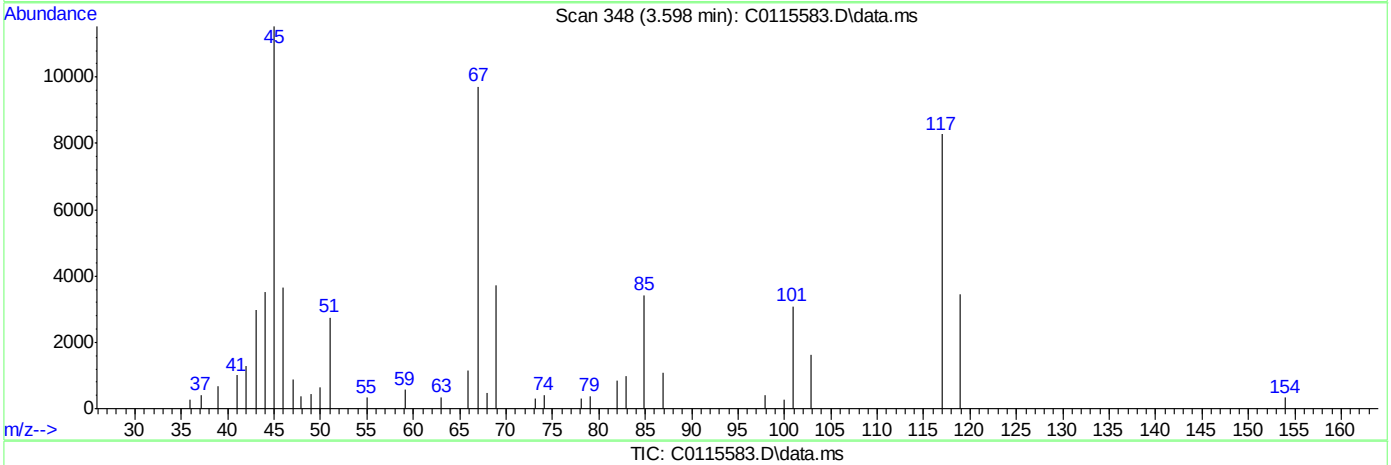
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.60	Split peak
Methyl Acetate	79-20-9		4.42	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 14:03:50 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration





TIC: C0115583.D\data.ms

(104) Ethanol

3.598min (+0.018) 1086.11ug/Kg

response 34711

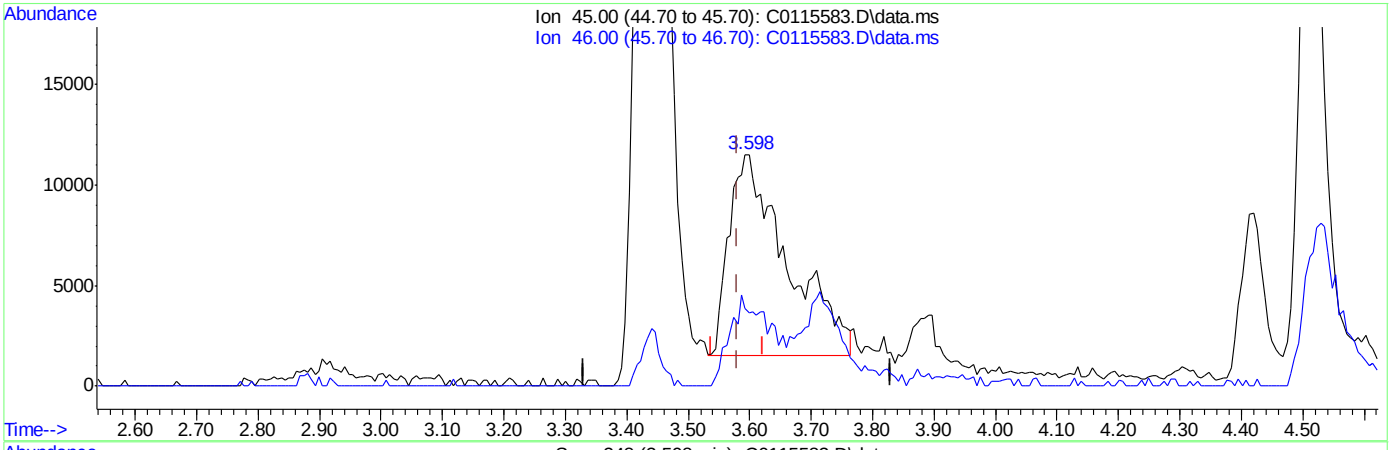
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	36.62
0.00	0.00	0.00
0.00	0.00	0.00

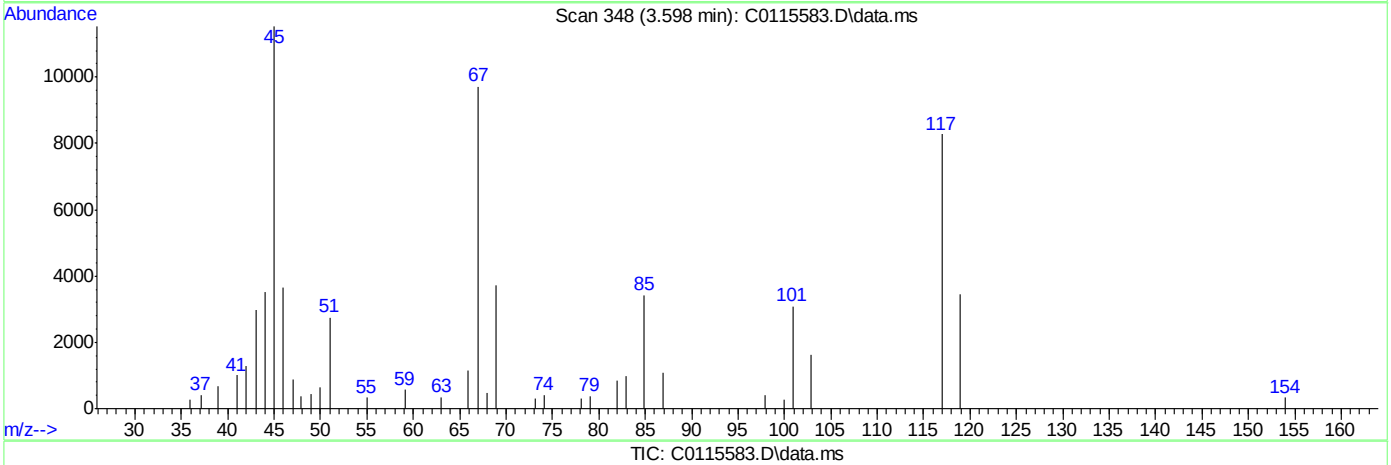
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 14:03:50 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration





TIC: C0115583.D\data.ms

(104) Ethanol

3.598min (+0.018) 2059.30ug/Kg m

response 65813

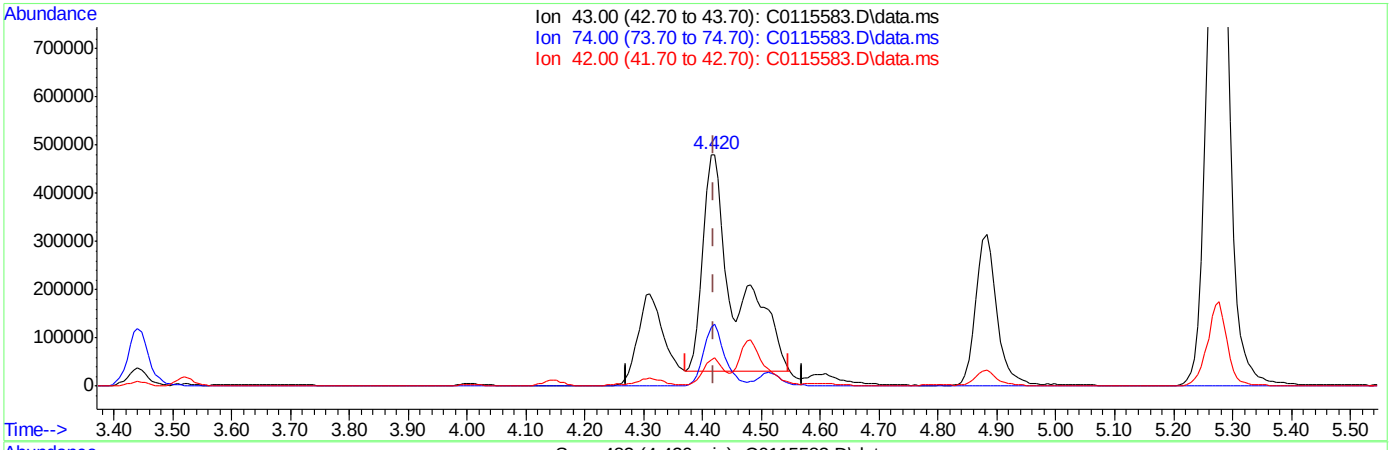
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	31.62
0.00	0.00	0.00
0.00	0.00	0.00

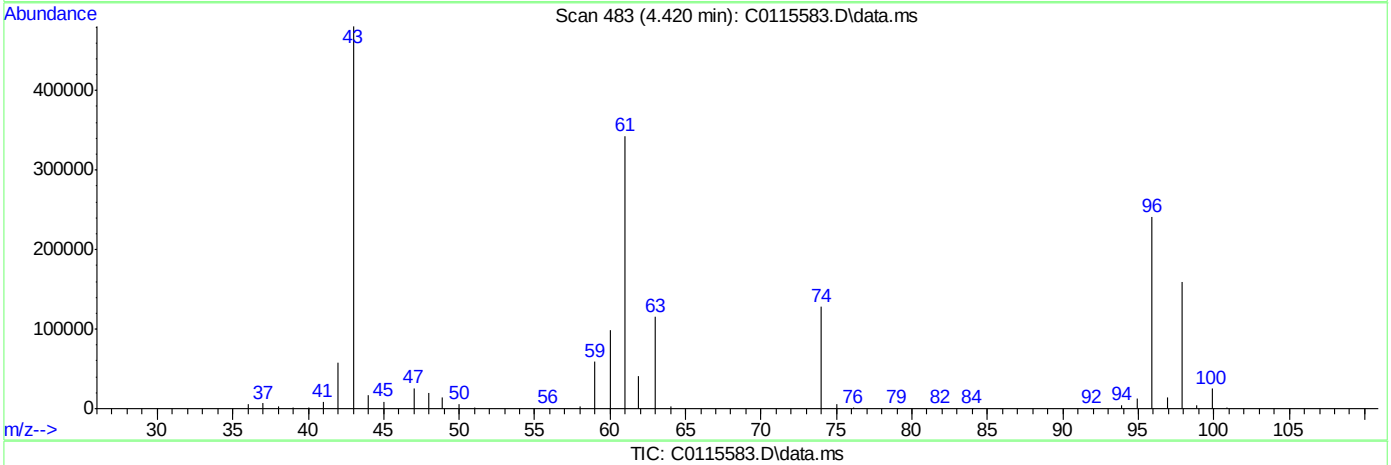
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 14:04:43 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration





TIC: C0115583.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 497.21ug/Kg

response 1750644

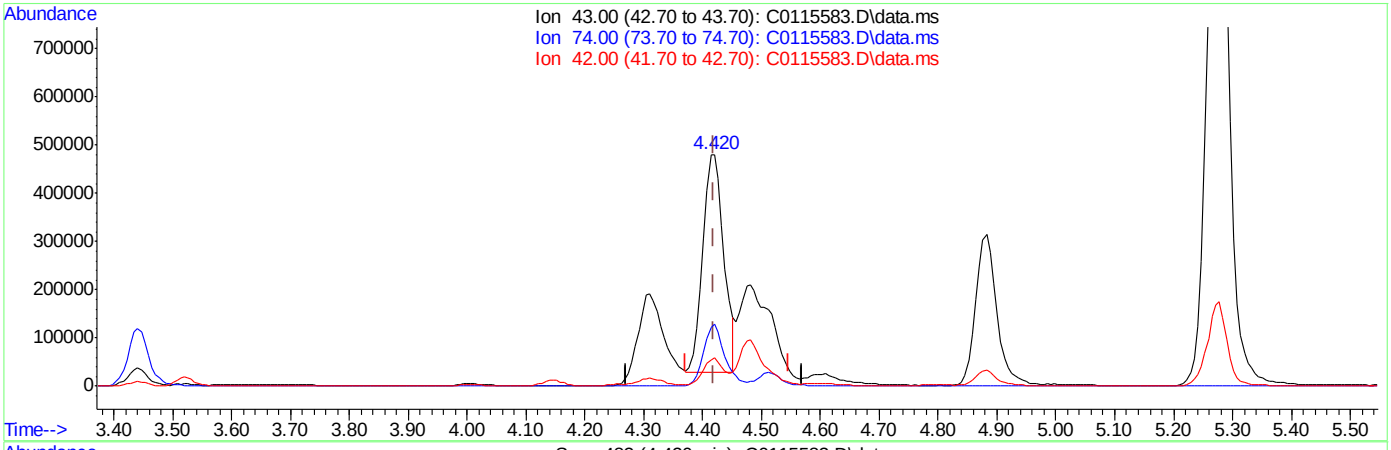
Ion	Exp%	Act%
43.00	100	100
74.00	28.40	28.20
42.00	15.10	12.19
0.00	0.00	0.00

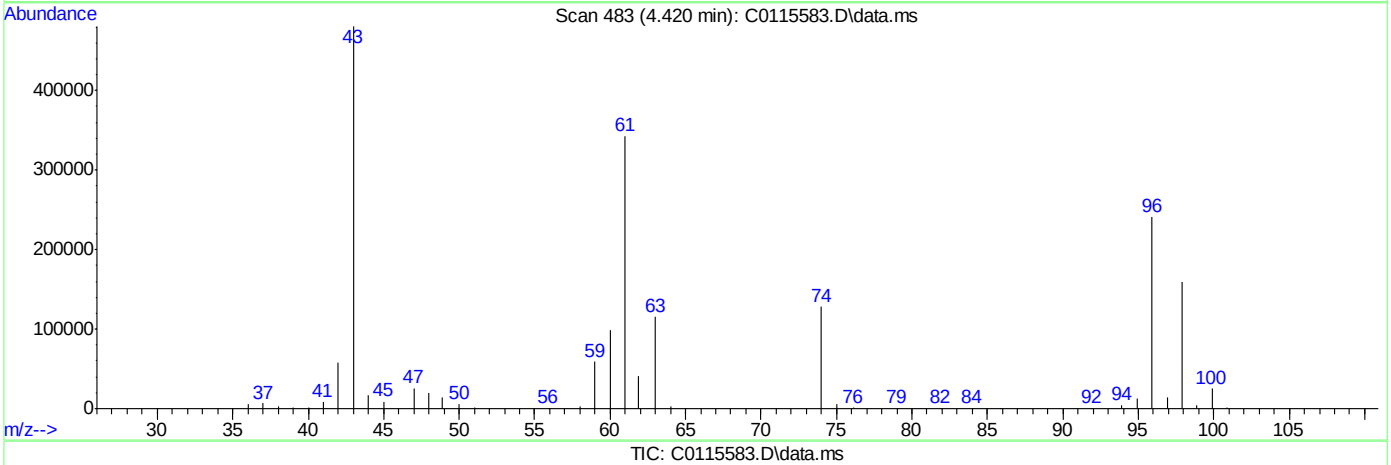
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115583.D
Acq On : 12 May 2016 1:42 pm
Operator : ericp
Sample : IC4595-5 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 12 14:04:43 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:03:15 2016
Response via : Initial Calibration





TIC: C0115583.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 315.03ug/Kg m

response 1109179

Ion	Exp%	Act%
43.00	100	100
74.00	28.40	26.63
42.00	15.10	12.08
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 07:22:06 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.890	96	968308	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.010	117	636285	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.377	152	306173	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.535	65	103218	250.00	ug/Kg	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	267731	46.76	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.52%			
44) 1,2-Dichloroethane-d4	6.616	65	310165	47.79	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 95.58%			
55) Toluene-d8	8.453	98	948239	51.59	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 103.18%			
77) 4-Bromofluorobenzene	11.227	174	218292	55.42	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 110.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.223	85	1434783	130.17	ug/Kg	97
3) Chloromethane	2.418	50	1294274	123.13	ug/Kg	99
4) Vinyl Chloride	2.534	62	1124281	129.38	ug/Kg	98
5) Bromomethane	2.868	94	498561	152.70	ug/Kg	96
6) Chloroethane	3.008	64	373469	156.08	ug/Kg	92
7) Trichlorofluoromethane	3.166	101	1448337	127.83	ug/Kg	96
8) Ethyl Ether	3.440	59	573774	127.64	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.665	67	861552	152.68	ug/Kg	90
10) 1,1-Dichloroethene	3.659	61	1273791	151.60	ug/Kg	96
11) Freon 113	3.720	101	827379	151.75	ug/Kg	96
12) Carbon Disulfide	3.708	76	2416549	152.76	ug/Kg	96
13) Iodomethane	3.823	142	1483177	131.84	ug/Kg	92
14) Allyl chloride	4.146	41	1137813	122.18	ug/Kg	86
15) Methylene Chloride	4.255	49	939127	153.65	ug/Kg	99
16) Acetone	4.316	43	869305	758.42	ug/Kg	92
17) Methyl acetate	4.420	43	1532069m	455.85	ug/Kg	
18) trans-1,2-Dichloroethene	4.420	61	1083713	152.17	ug/Kg	99
19) Hexane	4.480	56	577909	150.91	ug/Kg	91
20) Methyl Tert Butyl Ether	4.517	73	2180526	134.25	ug/Kg	95
21) Acetonitrile	4.797	41	479436	1518.97	ug/Kg	95
22) Di-isopropyl ether	4.882	45	2116569	128.00	ug/Kg	98
23) Chloroprene	5.016	53	1514962	128.11	ug/Kg	92
24) 1,1-Dichloroethane	5.046	63	1403113	152.22	ug/Kg	98
25) Acrylonitrile	5.107	52	744707	625.59	ug/Kg	91
26) ETBE	5.253	59	2274577	132.22	ug/Kg	96
27) Vinyl acetate	5.277	43	4681389	607.12	ug/Kg	97
28) cis-1,2-Dichloroethene	5.594	96	976524	126.83	ug/Kg	96
29) 2,2-Dichloropropane	5.709	77	939717	154.44	ug/Kg	93
30) Bromochloromethane	5.807	128	436224	127.45	ug/Kg	90
31) Cyclohexane	5.813	84	1272461	122.70	ug/Kg	96
32) Chloroform	5.867	83	1645598	124.78	ug/Kg	99
33) Ethyl acetate	5.965	43	2032200	673.94	ug/Kg	96
34) Tetrahydrofuran	6.050	42	119786	150.18	ug/Kg	96

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 07:22:06 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Carbon Tetrachloride	6.020	117	1576753	131.21 ug/Kg	97
37) 1,1,1-Trichloroethane	6.093	97	1465076	123.28 ug/Kg	94
38) 2-Butanone	6.184	43	1168461	665.01 ug/Kg	95
39) 1,1-Dichloropropene	6.214	75	1153996	128.82 ug/Kg	95
40) Propionitrile	6.506	54	656981	1507.14 ug/Kg	96
41) Methacrylonitrile	6.524	41	2694897	1232.87 ug/Kg	97
42) Benzene	6.476	78	2992180	122.54 ug/Kg	100
43) TAME	6.561	73	2106997	138.47 ug/Kg	95
45) 1,2-Dichloroethane	6.683	62	1117001	131.78 ug/Kg	95
46) Trichloroethene	7.060	95	854578	129.17 ug/Kg	98
47) Methylcyclohexane	7.048	83	1371441	125.28 ug/Kg	97
48) Dibromomethane	7.498	93	506001	135.17 ug/Kg	89
49) 1,2-Dichloropropane	7.589	63	700736	126.45 ug/Kg	85
50) Bromodichloromethane	7.644	83	1110302	135.15 ug/Kg	98
51) Methyl methacrylate	7.772	41	414058	147.92 ug/Kg	92
52) 2-Chloroethyl vinyl ether	8.191	63	1530195	742.59 ug/Kg	95
53) cis-1,3-Dichloropropene	8.270	75	1208462	160.34 ug/Kg	94
56) Toluene	8.508	91	2915384	132.03 ug/Kg	89
57) 2-Nitropropane	8.745	41	839236	768.80 ug/Kg	93
58) 4-Methyl-2-pentanone	8.867	43	2410165	631.84 ug/Kg	96
59) trans-1,3-Dichloropropene	8.915	75	847828	160.78 ug/Kg	91
60) Tetrachloroethene	8.897	166	759924	139.77 ug/Kg	96
61) Ethyl methacrylate	9.043	69	691775	148.79 ug/Kg	93
62) 1,1,2-Trichloroethane	9.080	83	469844	135.25 ug/Kg	95
63) Dibromochloromethane	9.262	129	752986	160.63 ug/Kg	97
64) 1,3-Dichloropropane	9.359	76	952028	153.67 ug/Kg	97
65) 1,2-Dibromoethane	9.518	107	574317	159.52 ug/Kg	99
66) 2-hexanone	9.694	43	1450858	744.01 ug/Kg	95
67) 1-Chlorohexane	9.974	91	967721	149.22 ug/Kg	94
68) Ethylbenzene	10.035	91	2937363	126.36 ug/Kg	91
69) Chlorobenzene	10.023	112	1727327	133.14 ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.083	131	839736	141.73 ug/Kg	91
71) m,p-Xylene	10.175	91	4240483	248.86 ug/Kg	86
72) o-Xylene	10.613	91	2803907	149.70 ug/Kg	91
73) Styrene	10.667	104	1801021	147.90 ug/Kg	97
74) Bromoform	10.716	173	361405	159.94 ug/Kg	90
75) Isopropylbenzene	10.923	105	3291711	149.91 ug/Kg	92
78) cis-1,4-Dichloro-2-butene	11.288	53	149782	148.53 ug/Kg	84
79) n-Propylbenzene	11.343	91	3251234	128.43 ug/Kg	92
80) Bromobenzene	11.343	156	717831	144.90 ug/Kg	97
81) 1,1,2,2-Tetrachloroethane	11.422	83	759431	134.61 ug/Kg	98
82) 1,3,5-Trimethylbenzene	11.537	105	2753948	151.00 ug/Kg	91
83) 2-Chlorotoluene	11.519	91	2561350	134.98 ug/Kg	97
84) trans-1,4-Dichloro-2-B...	11.604	53	144023	163.51 ug/Kg	79
85) 1,2,3-Trichloropropane	11.574	110	204001	138.85 ug/Kg	95
86) Cyclohexanone	11.629	55	121634	804.63 ug/Kg	99
87) 4-Chlorotoluene	11.689	91	2186971	141.24 ug/Kg	97
88) tert-Butylbenzene	11.866	91	2008336	150.25 ug/Kg	91
89) 1,2,4-Trimethylbenzene	11.939	105	2730891	150.78 ug/Kg	91
90) Pentachloroethane	11.908	167	504353	151.34 ug/Kg	92

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 07:22:06 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.048	105	3529279	147.90	ug/Kg	96
92) 4-Isopropyltoluene	12.188	119	2958251	149.88	ug/Kg	95
93) 1,3-Dichlorobenzene	12.304	146	1337006	136.13	ug/Kg	97
94) 1,4-Dichlorobenzene	12.389	146	1277697	134.96	ug/Kg	98
95) n-Butylbenzene	12.632	92	1620227	150.13	ug/Kg	97
96) Benzyl Chloride	12.645	126	283874	150.65	ug/Kg#	48
97) 1,2-Dichlorobenzene	12.833	146	1391624	139.89	ug/Kg	94
98) 1,2-Dibromo-3-Chloropr...	13.642	75	195159	153.78	ug/Kg	91
99) Hexachlorobutadiene	14.220	225	643430	151.30	ug/Kg	90
100) 1,2,4-Trichlorobenzene	14.263	180	1059016	151.36	ug/Kg	95
101) Naphthalene	14.555	128	2594248	148.74	ug/Kg	93
102) 1,2,3-Trichlorobenzene	14.713	180	1049551	145.73	ug/Kg	100
104) Ethanol	3.604	45	83083m	2772.55	ug/Kg	
105) Acrolein	4.018	56	476174	750.37	ug/Kg	93
106) Tert butyl alcohol	4.608	59	735288	1426.50	ug/Kg	99
107) Isobutyl alcohol	6.652	42	260636	2586.73	ug/Kg	83
108) Tert Amyl Alcohol	6.762	59	577703	1503.76	ug/Kg	99
109) 1,4-Dioxane	7.851	88	121353	2926.09	ug/Kg	92

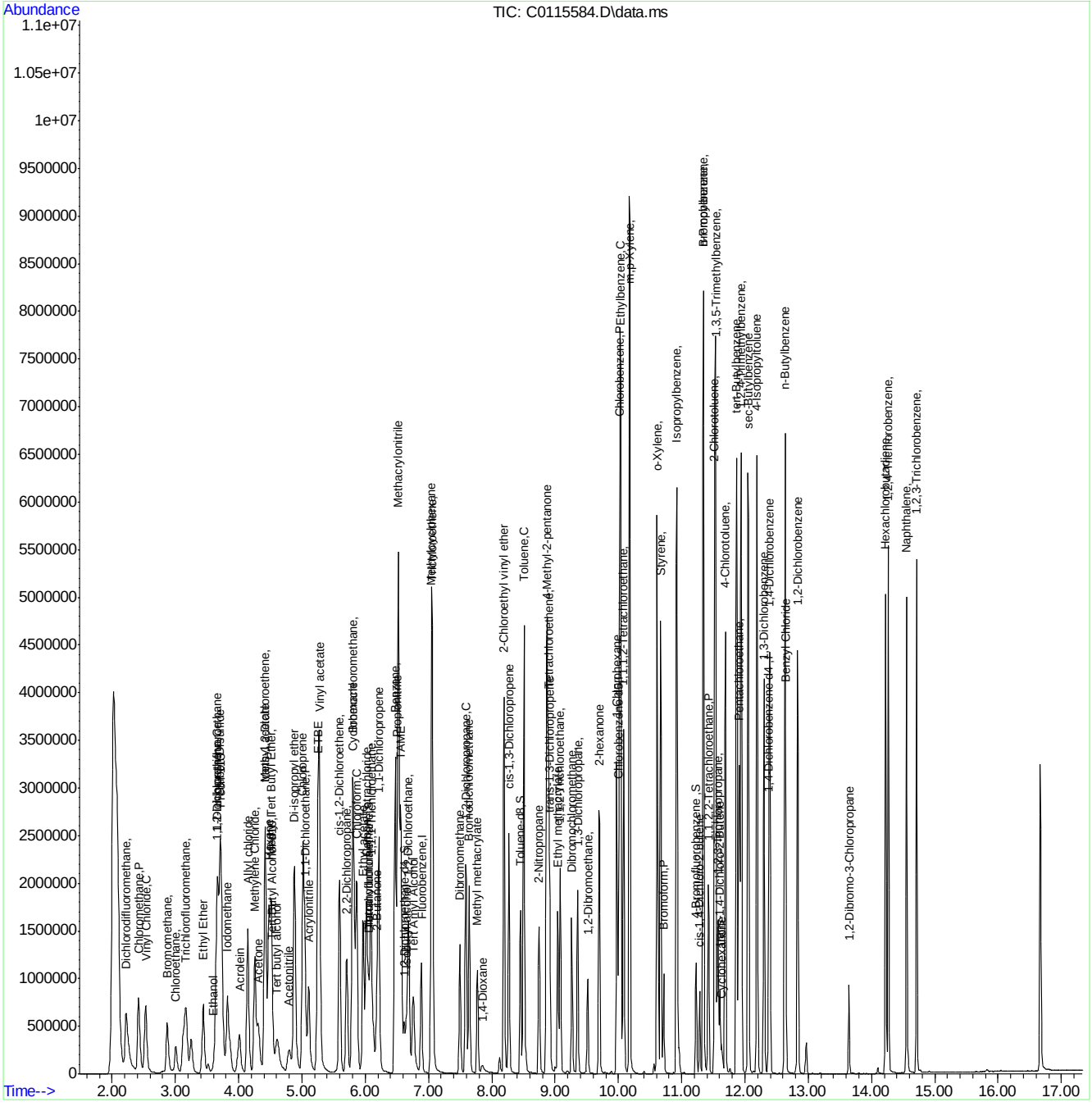
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 13 07:22:06 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

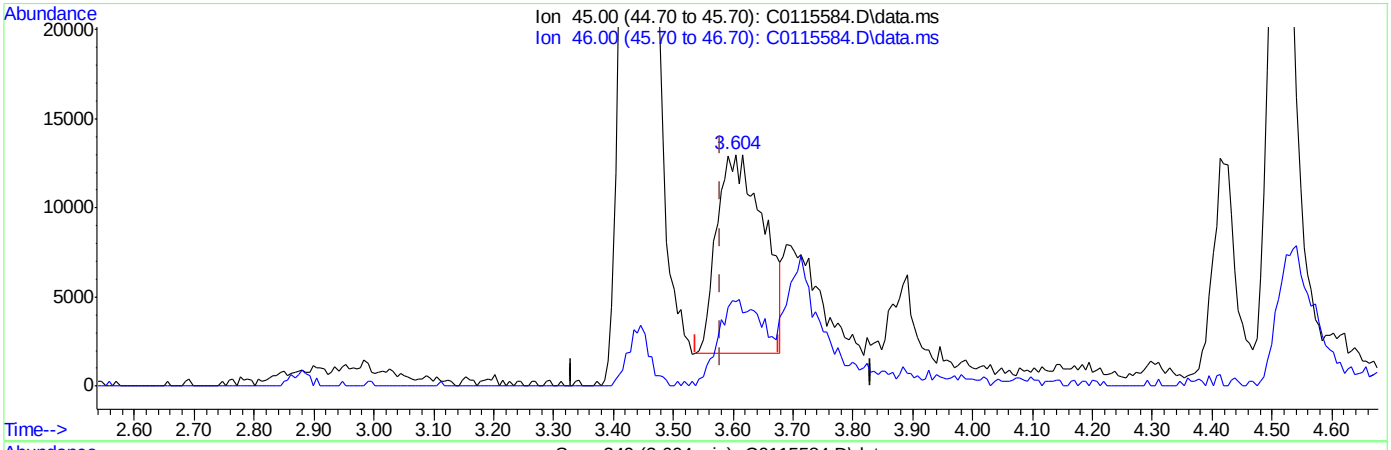
Sample Number:	VC4595-IC4595	**Method:**	SW846 8260B
Lab FileID:	C0115584.D	**Analyst approved:**	05/13/16 08:01 Eric Parrish
Injection Time:	05/12/16 14:07	**Supervisor approved:**	05/13/16 11:58 Melissa Mangual

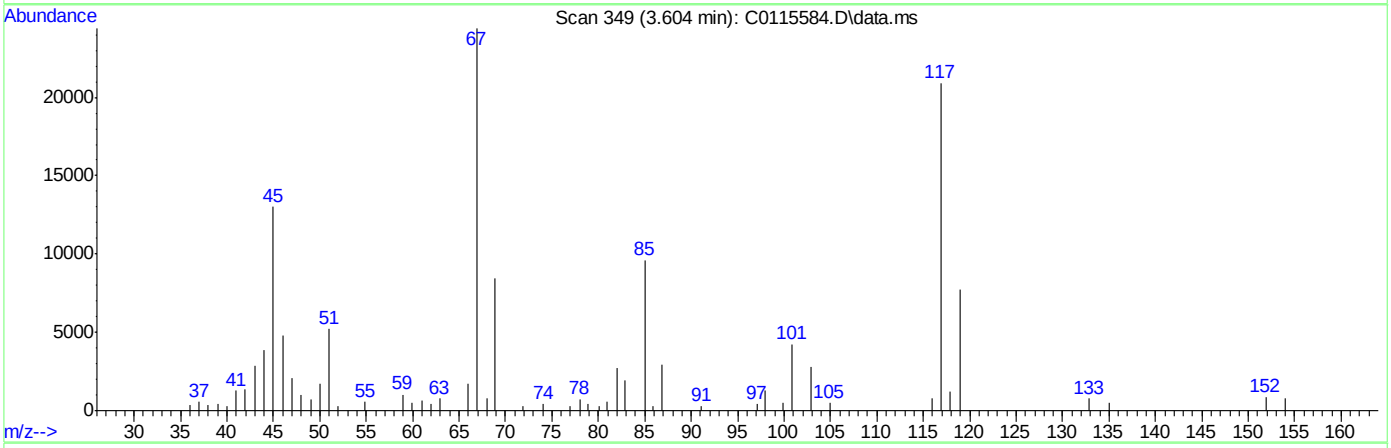
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.60	Split peak
Methyl Acetate	79-20-9		4.42	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration





TIC: C0115584.D\data.ms

(104) Ethanol

3.604min (+0.024) 1999.78ug/Kg

response 59926

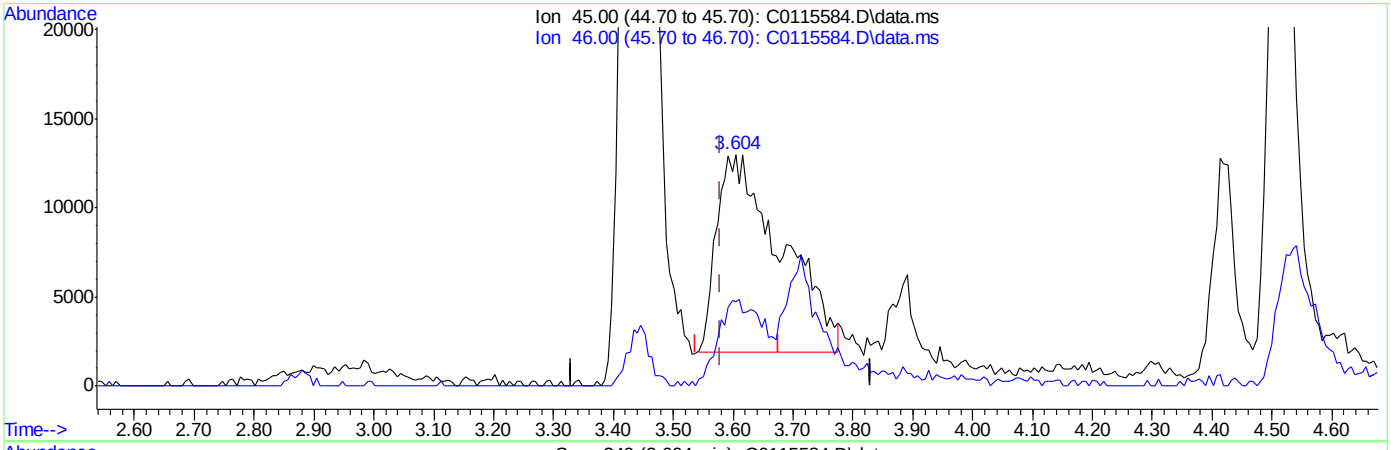
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	42.87
0.00	0.00	0.00
0.00	0.00	0.00

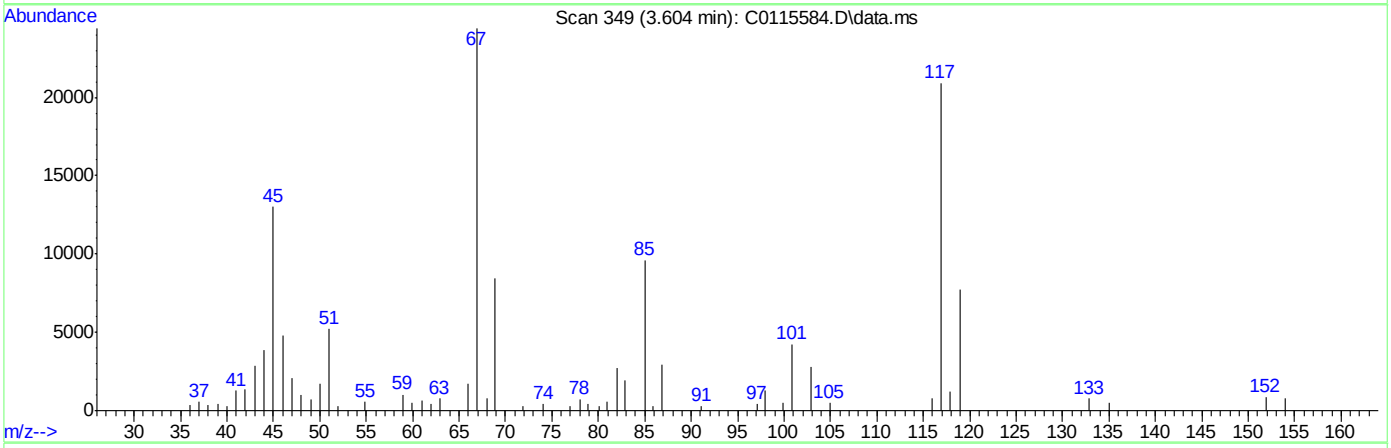
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 14:31:08 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration





TIC: C0115584.D\data.ms

(104) Ethanol

3.604min (+0.024) 2772.55ug/Kg m

response 83083

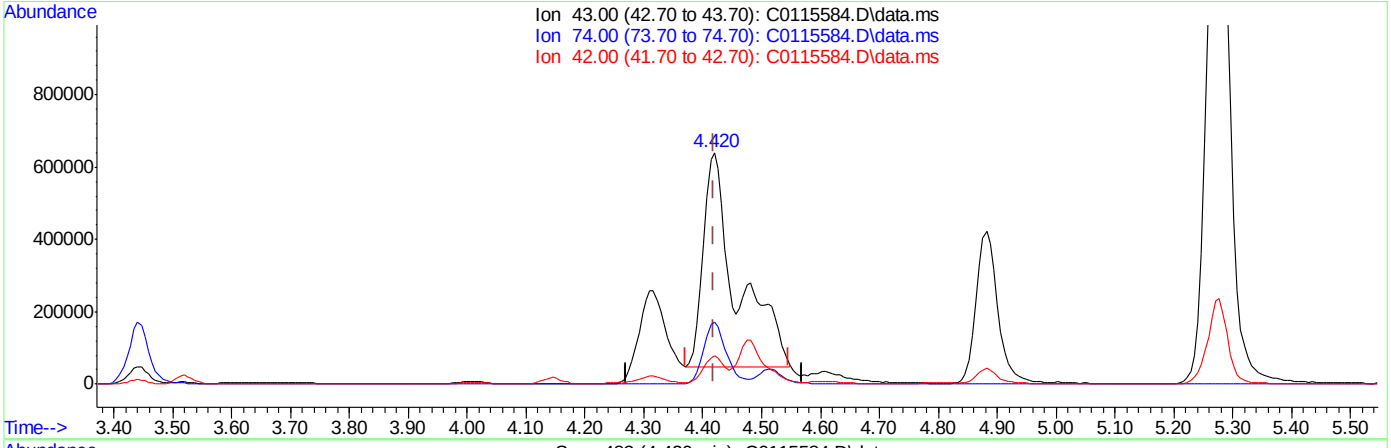
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	36.68
0.00	0.00	0.00
0.00	0.00	0.00

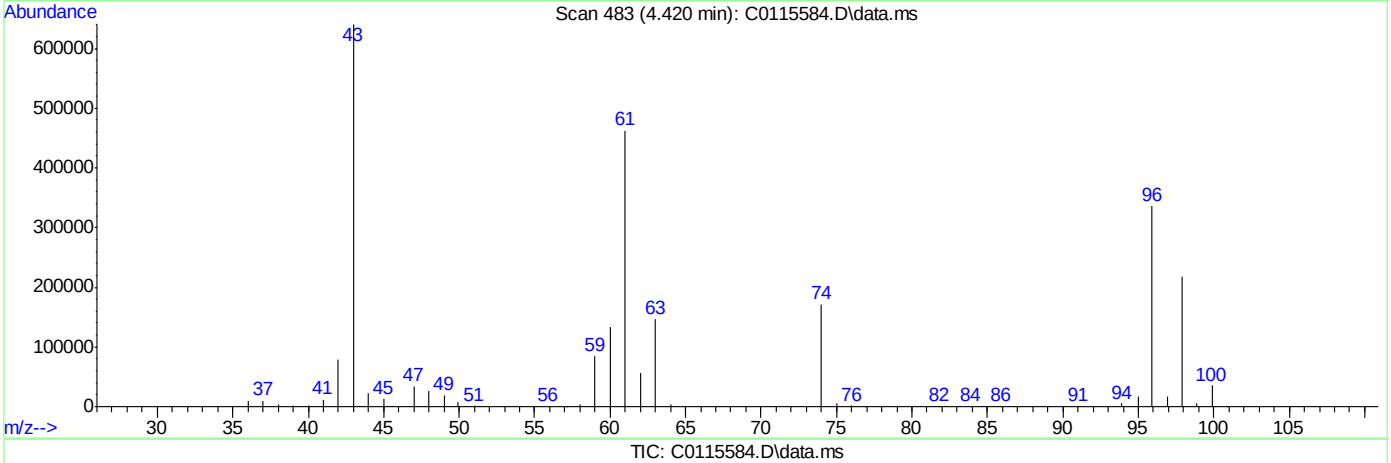
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 14:31:30 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration





TIC: C0115584.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 694.24ug/Kg

response 2333314

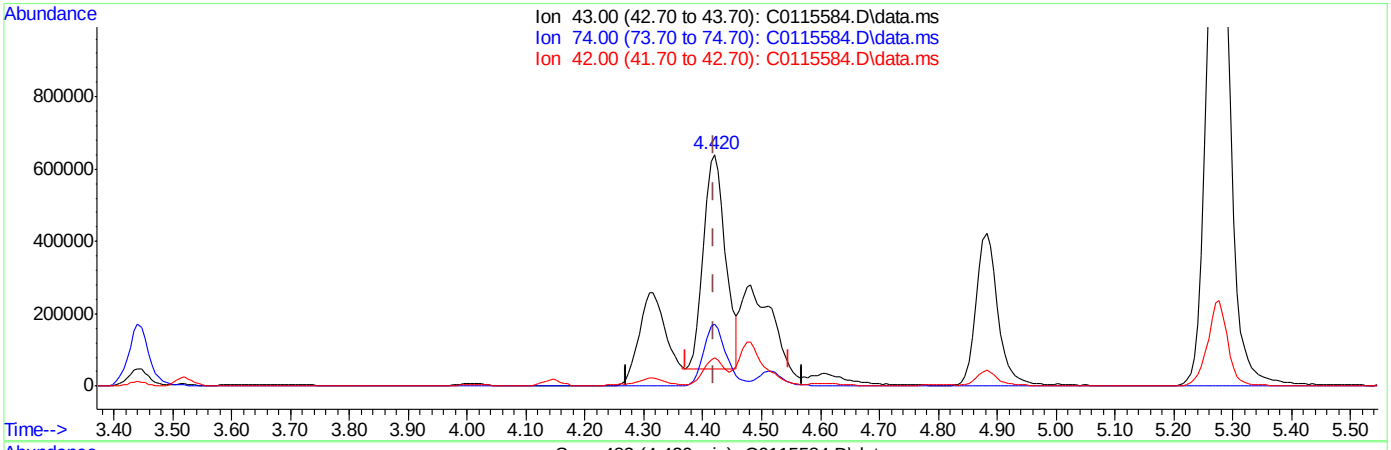
Ion	Exp%	Act%
43.00	100	100
74.00	28.40	28.73
42.00	15.10	12.49
0.00	0.00	0.00

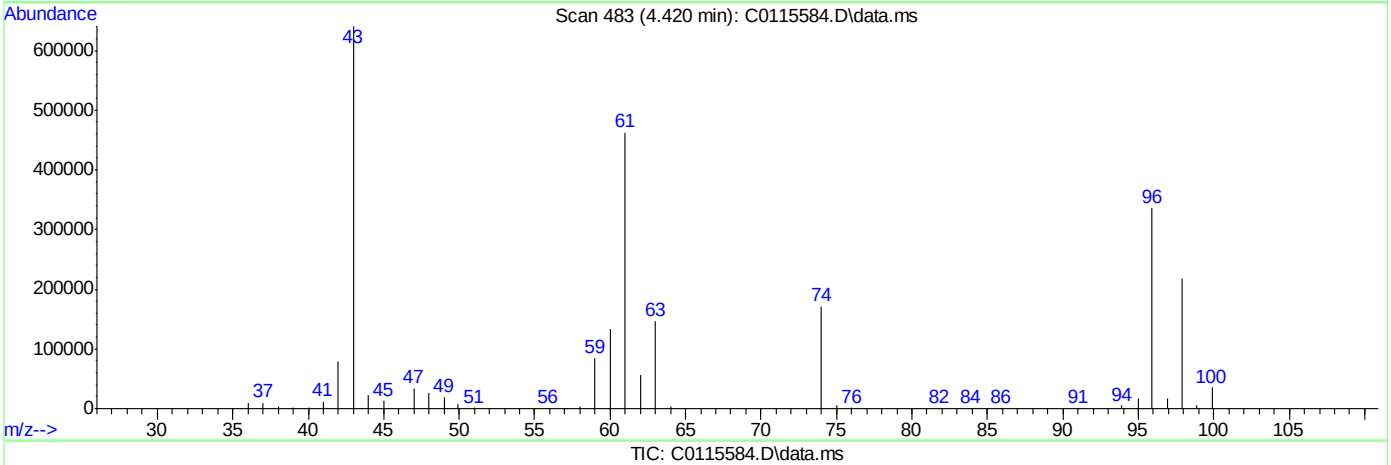
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115584.D
Acq On : 12 May 2016 2:07 pm
Operator : ericp
Sample : IC4595-6 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 12 14:31:30 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:28:21 2016
Response via : Initial Calibration





TIC: C0115584.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 455.85ug/Kg m

response 1532069

Ion	Exp%	Act%
43.00	100	100
74.00	28.40	26.77
42.00	15.10	12.40
0.00	0.00	0.00

SGS ACCUTEST FA33788

C0115585.D

Manual Integrations APPROVED (compounds with "m" flag)

Melissa Mangual 05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 07:21:26 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	968493	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.011	117	656187	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.377	152	352543	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.548	65	90823	250.00	ug/Kg	0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	264495	46.69	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.38%			
44) 1,2-Dichloroethane-d4	6.616	65	302137	47.01	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 94.02%			
55) Toluene-d8	8.453	98	980986	51.50	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 103.00%			
77) 4-Bromofluorobenzene	11.227	174	244867	53.39	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 106.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	2072961	189.65	ug/Kg	97
3) Chloromethane	2.418	50	1802870	175.05	ug/Kg	96
4) Vinyl Chloride	2.528	62	1641341	190.37	ug/Kg	99
5) Bromomethane	2.868	94	647419	202.04	ug/Kg	91
6) Chloroethane	3.002	64	436749	202.25	ug/Kg	92
7) Trichlorofluoromethane	3.160	101	1875271	169.66	ug/Kg	99
8) Ethyl Ether	3.440	59	701541	161.09	ug/Kg	93
9) 1,2-Dichlorotrifluoroe...	3.659	67	1106027	204.08	ug/Kg	92
10) 1,1-Dichloroethene	3.659	61	1658617	203.56	ug/Kg	94
11) Freon 113	3.714	101	1136210	204.29	ug/Kg	98
12) Carbon Disulfide	3.708	76	3087265	203.88	ug/Kg	95
13) Iodomethane	3.817	142	1994284	180.16	ug/Kg	91
14) Allyl chloride	4.146	41	1466309	202.51	ug/Kg	85
15) Methylene Chloride	4.255	49	1188004	203.72	ug/Kg	95
16) Acetone	4.310	43	1129223	1009.56	ug/Kg	88
17) Methyl acetate	4.420	43	1904996m	574.97	ug/Kg	
18) trans-1,2-Dichloroethene	4.414	61	1414007	202.95	ug/Kg	100
19) Hexane	4.474	56	792794	204.89	ug/Kg	90
20) Methyl Tert Butyl Ether	4.517	73	2849512	178.54	ug/Kg	95
21) Acetonitrile	4.803	41	612580	2018.72	ug/Kg	94
22) Di-isopropyl ether	4.882	45	2668740	165.94	ug/Kg	98
23) Chloroprene	5.016	53	1971889	170.77	ug/Kg	91
24) 1,1-Dichloroethane	5.046	63	1788562	202.49	ug/Kg	95
25) Acrylonitrile	5.107	52	1011961	868.55	ug/Kg	92
26) ETBE	5.253	59	2884733	171.63	ug/Kg	94
27) Vinyl acetate	5.278	43	5875433	1012.34	ug/Kg	95
28) cis-1,2-Dichloroethene	5.594	96	1291565	171.68	ug/Kg	98
29) 2,2-Dichloropropane	5.703	77	1192344	205.06	ug/Kg	94
30) Bromochloromethane	5.801	128	574148	171.67	ug/Kg	93
31) Cyclohexane	5.807	84	1701759	168.38	ug/Kg	96
32) Chloroform	5.868	83	2120123	201.15	ug/Kg	99
33) Ethyl acetate	5.971	43	2708660	911.37	ug/Kg	98
34) Tetrahydrofuran	6.050	42	159001	201.33	ug/Kg	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 07:21:26 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.020	117	2094488	177.53	ug/Kg	99
37)	1,1,1-Trichloroethane	6.093	97	1873428	201.98	ug/Kg	95
38)	2-Butanone	6.190	43	1484173	863.72	ug/Kg	91
39)	1,1-Dichloropropene	6.214	75	1524523	173.86	ug/Kg	94
40)	Propionitrile	6.513	54	837329	2025.17	ug/Kg	75
41)	Methacrylonitrile	6.531	41	3398095	1605.38	ug/Kg	98
42)	Benzene	6.470	78	3771167	159.61	ug/Kg	99
43)	TAME	6.561	73	2703969	180.55	ug/Kg	95
45)	1,2-Dichloroethane	6.683	62	1443576	173.97	ug/Kg	96
46)	Trichloroethene	7.060	95	1115089	172.39	ug/Kg	95
47)	Methylcyclohexane	7.048	83	1817750	170.15	ug/Kg	98
48)	Dibromomethane	7.498	93	696417	187.88	ug/Kg	90
49)	1,2-Dichloropropane	7.589	63	989527	181.32	ug/Kg	83
50)	Bromodichloromethane	7.644	83	1507670	185.68	ug/Kg	98
51)	Methyl methacrylate	7.772	41	602528	201.96	ug/Kg	90
52)	2-Chloroethyl vinyl ether	8.198	63	1972529	994.72	ug/Kg	96
53)	cis-1,3-Dichloropropene	8.271	75	1578482	208.00	ug/Kg	93
56)	Toluene	8.508	91	3751638	169.01	ug/Kg	89
57)	2-Nitropropane	8.745	41	1151470	1019.51	ug/Kg	94
58)	4-Methyl-2-pentanone	8.873	43	3018722	793.75	ug/Kg	96
59)	trans-1,3-Dichloropropene	8.922	75	1131942	206.94	ug/Kg	97
60)	Tetrachloroethene	8.891	166	1093057	195.64	ug/Kg	95
61)	Ethyl methacrylate	9.043	69	963545	199.51	ug/Kg	95
62)	1,1,2-Trichloroethane	9.080	83	631945	179.42	ug/Kg	94
63)	Dibromochloromethane	9.262	129	1024604	210.16	ug/Kg	92
64)	1,3-Dichloropropane	9.360	76	1272682	199.31	ug/Kg	96
65)	1,2-Dibromoethane	9.518	107	774692	207.37	ug/Kg	92
66)	2-hexanone	9.694	43	1912471	1002.44	ug/Kg	95
67)	1-Chlorohexane	9.980	91	1366628	201.90	ug/Kg	92
68)	Ethylbenzene	10.035	91	3813314	163.86	ug/Kg	87
69)	Chlorobenzene	10.029	112	2295783	175.14	ug/Kg	99
70)	1,1,1,2-Tetrachloroethane	10.084	131	1129224	186.84	ug/Kg	90
71)	m,p-Xylene	10.181	91	5345941	314.99	ug/Kg	78
72)	o-Xylene	10.613	91	3677319	201.28	ug/Kg	86
73)	Styrene	10.668	104	2422497	198.70	ug/Kg	97
74)	Bromoform	10.716	173	527820	222.29	ug/Kg	93
75)	Isopropylbenzene	10.923	105	4355548	201.67	ug/Kg	88
78)	cis-1,4-Dichloro-2-butene	11.288	53	219063	197.48	ug/Kg#	84
79)	n-Propylbenzene	11.343	91	4264592	198.68	ug/Kg	87
80)	Bromobenzene	11.343	156	994737	177.63	ug/Kg	99
81)	1,1,2,2-Tetrachloroethane	11.422	83	1061768	167.83	ug/Kg	100
82)	1,3,5-Trimethylbenzene	11.538	105	3747658	198.55	ug/Kg	87
83)	2-Chlorotoluene	11.519	91	3462614	163.32	ug/Kg	95
84)	trans-1,4-Dichloro-2-B...	11.604	53	204488	201.38	ug/Kg#	76
85)	1,2,3-Trichloropropane	11.574	110	297407	178.89	ug/Kg	96
86)	Cyclohexanone	11.635	55	175538	1007.26	ug/Kg	95
87)	4-Chlorotoluene	11.690	91	2967637	170.54	ug/Kg	94
88)	tert-Butylbenzene	11.866	91	2771506	197.30	ug/Kg	90
89)	1,2,4-Trimethylbenzene	11.939	105	3634870	196.66	ug/Kg	87
90)	Pentachloroethane	11.909	167	706930	186.33	ug/Kg	91

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 07:21:26 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.055	105	4693111	191.59	ug/Kg	85
92)	4-Isopropyltoluene	12.195	119	4057634	197.92	ug/Kg	90
93)	1,3-Dichlorobenzene	12.304	146	1932193	174.49	ug/Kg	97
94)	1,4-Dichlorobenzene	12.395	146	1864006	174.61	ug/Kg	99
95)	n-Butylbenzene	12.633	92	2324113	200.38	ug/Kg	91
96)	Benzyl Chloride	12.645	126	411874	191.22	ug/Kg#	49
97)	1,2-Dichlorobenzene	12.833	146	2070878	183.30	ug/Kg	94
98)	1,2-Dibromo-3-Chloropr...	13.642	75	310873	210.82	ug/Kg	96
99)	Hexachlorobutadiene	14.226	225	1103765	221.39	ug/Kg	98
100)	1,2,4-Trichlorobenzene	14.263	180	1657129	204.86	ug/Kg	95
101)	Naphthalene	14.555	128	3808267	191.04	ug/Kg	85
102)	1,2,3-Trichlorobenzene	14.713	180	1665898	200.76	ug/Kg	99
104)	Ethanol	3.629	45	99652m	3803.18	ug/Kg	
105)	Acrolein	4.012	56	636778	1117.97	ug/Kg	96
106)	Tert butyl alcohol	4.620	59	1024579	2217.98	ug/Kg	93
107)	Isobutyl alcohol	6.665	42	351338	3968.06	ug/Kg	94
108)	Tert Amyl Alcohol	6.768	59	793541	2290.64	ug/Kg	96
109)	1,4-Dioxane	7.851	88	146729m	4134.47	ug/Kg	

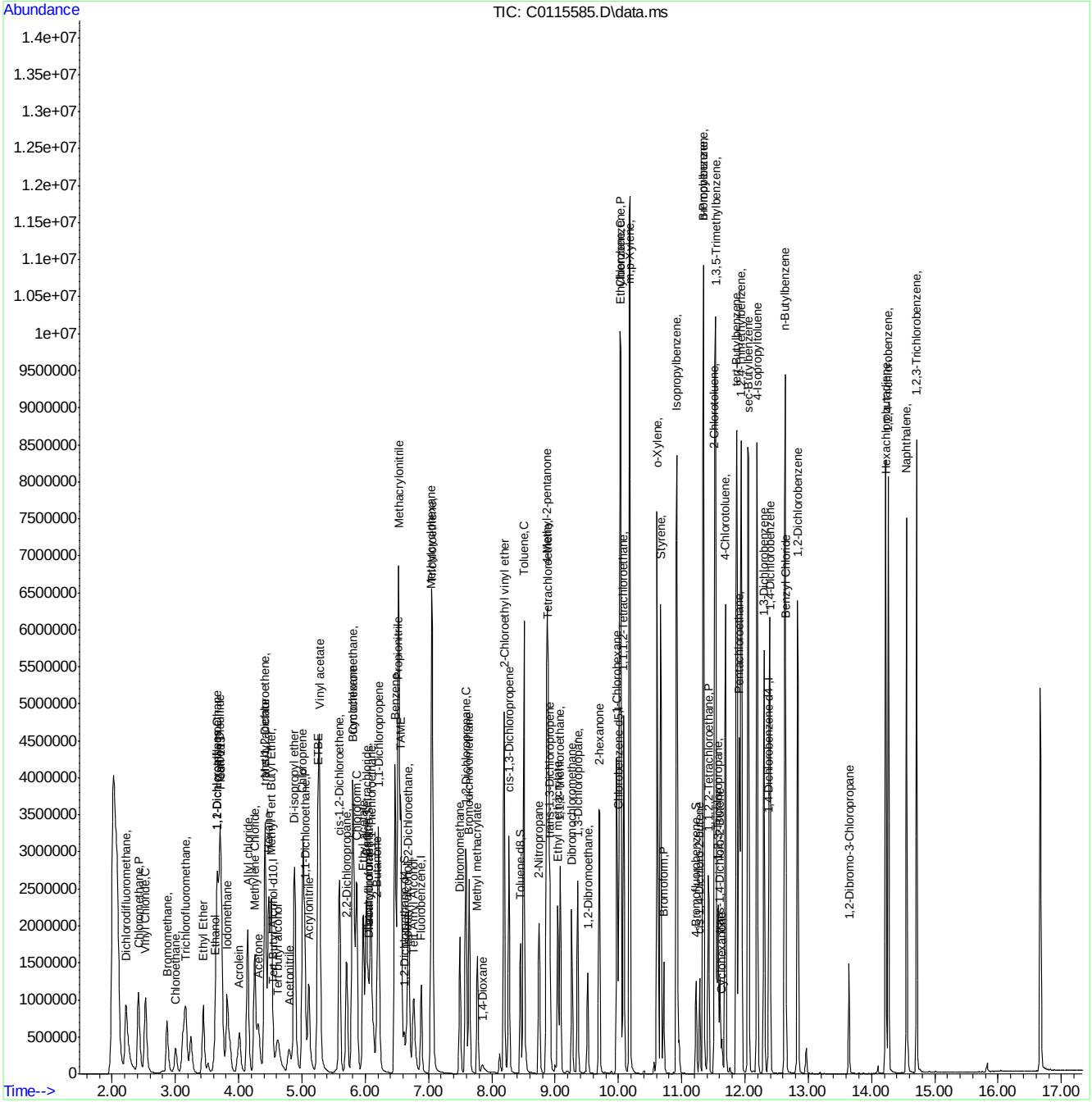
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 07:21:26 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

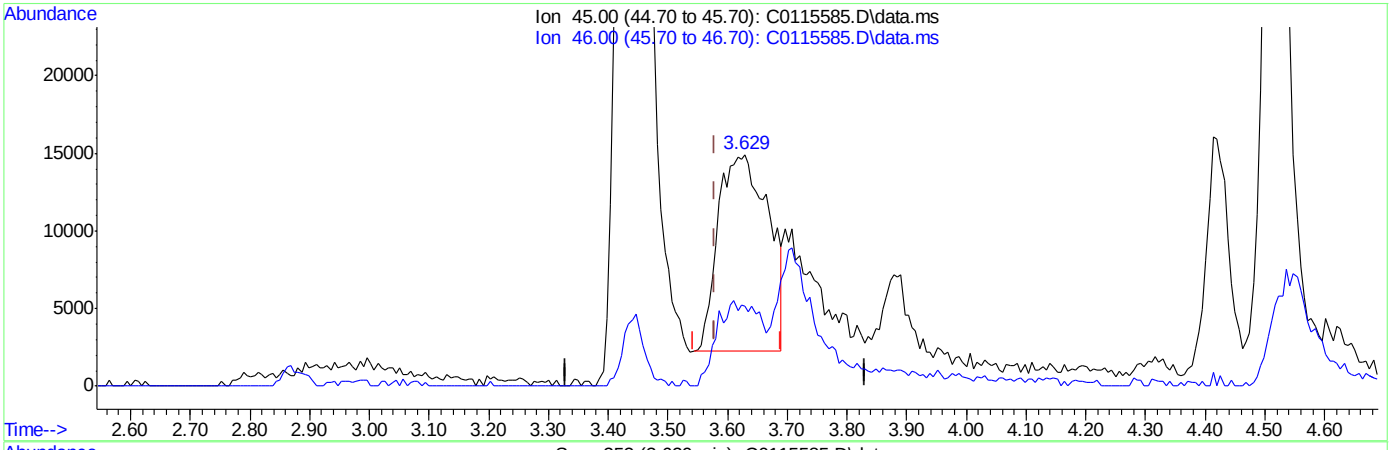
Sample Number:	VC4595-IC4595	**Method:**	SW846 8260B
Lab FileID:	C0115585.D	**Analyst approved:**	05/13/16 08:01 Eric Parrish
Injection Time:	05/12/16 14:33	**Supervisor approved:**	05/13/16 11:58 Melissa Mangual

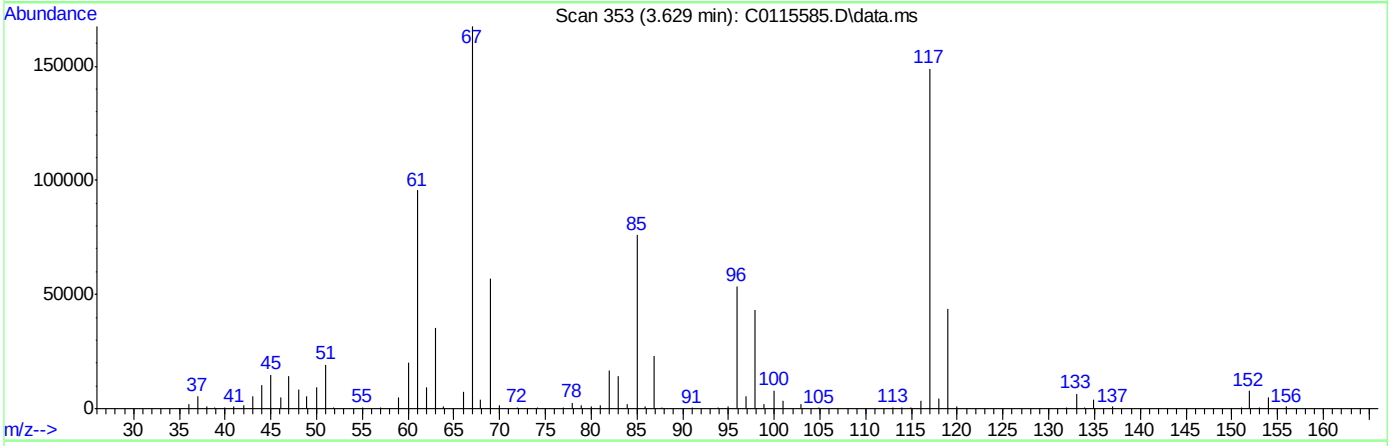
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.63	Split peak
Methyl Acetate	79-20-9		4.42	Overlapping peak
1,4-Dioxane	123-91-1		7.85	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 14:54:50 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration





(104) Ethanol

3.629min (+0.049) 2811.59ug/Kg

response 73670

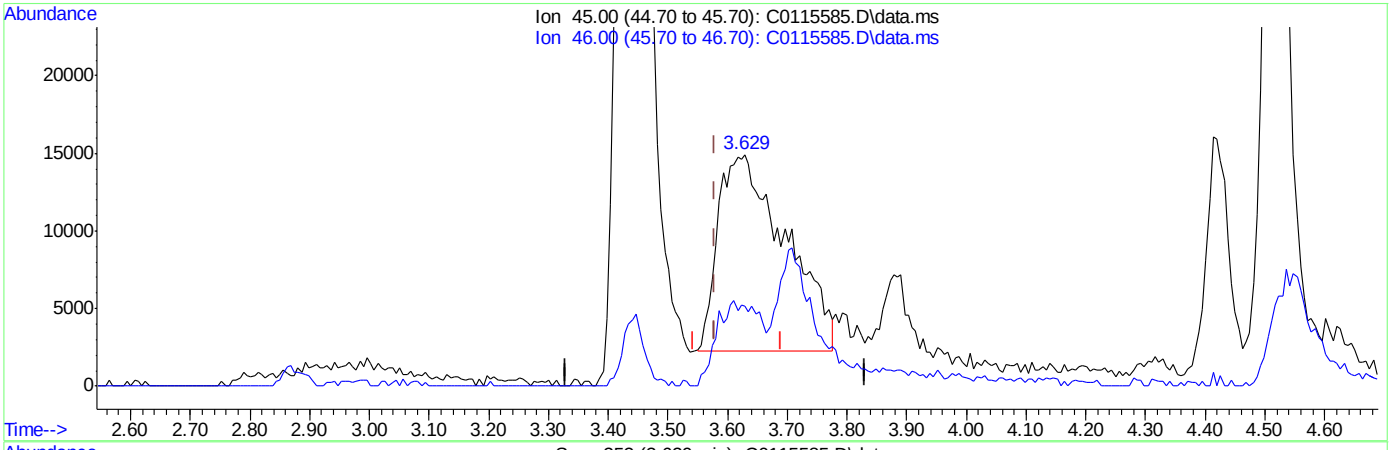
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	40.91
0.00	0.00	0.00
0.00	0.00	0.00

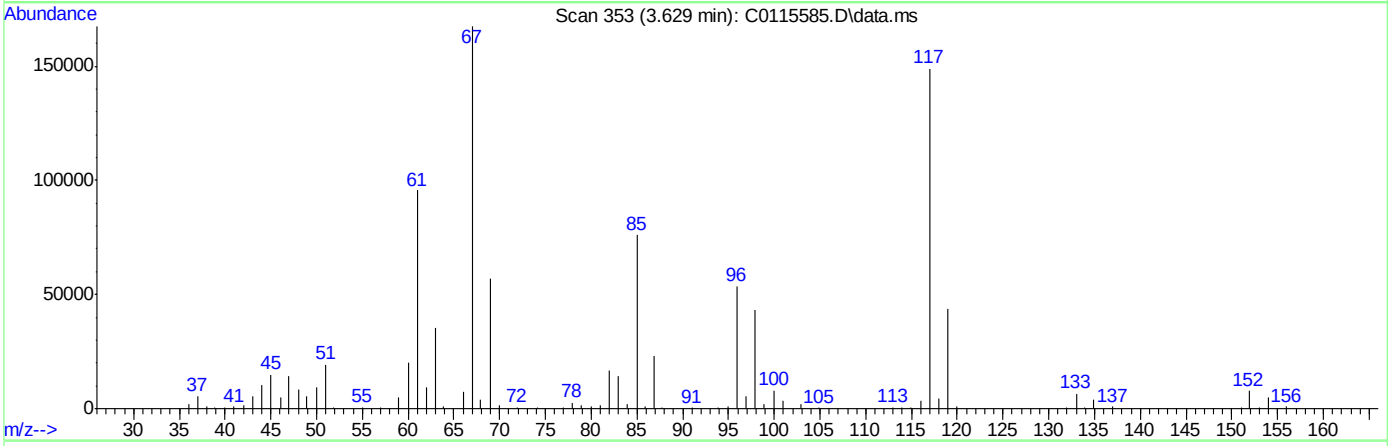
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 14:54:50 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration





TIC: C0115585.D\data.ms

(104) Ethanol

3.629min (+0.049) 3803.18ug/Kg m

response 99652

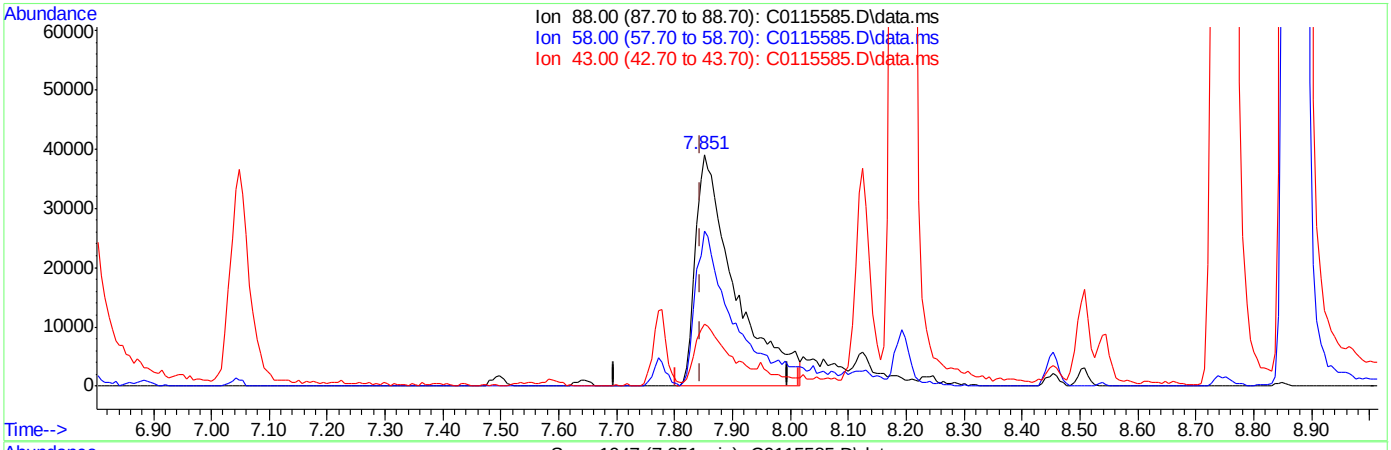
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	34.64
0.00	0.00	0.00
0.00	0.00	0.00

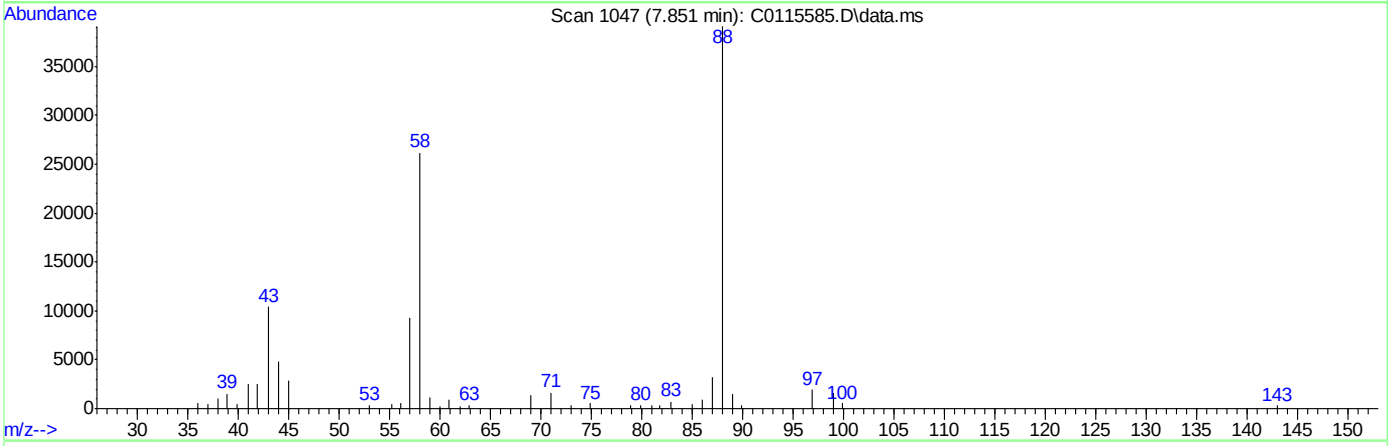
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 14:54:50 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration





TIC: C0115585.D\data.ms

(109) 1,4-Dioxane

7.851min (+0.006) 5199.21ug/Kg

response 184516

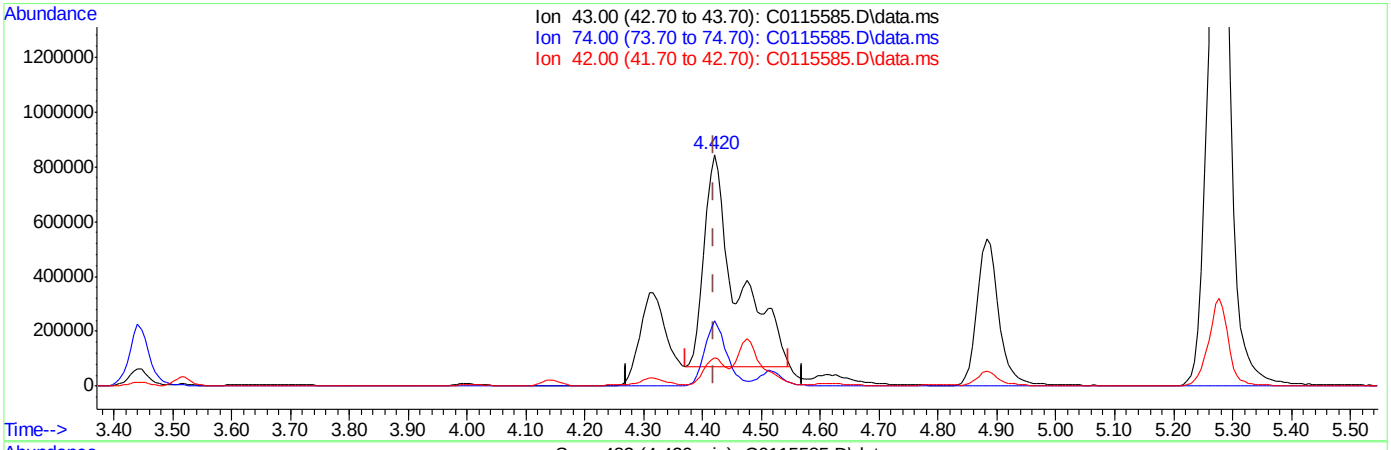
Ion	Exp%	Act%
88.00	100	100
58.00	60.50	65.76
43.00	26.20	24.65
0.00	0.00	0.00

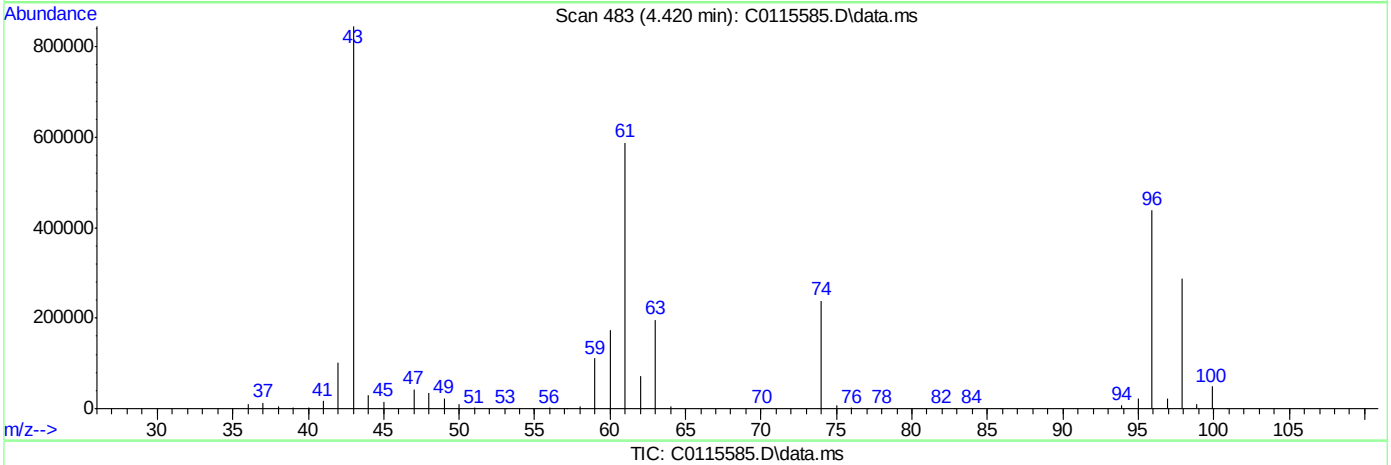
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 14:55:25 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration





TIC: C0115585.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 912.36ug/Kg

response 3022828

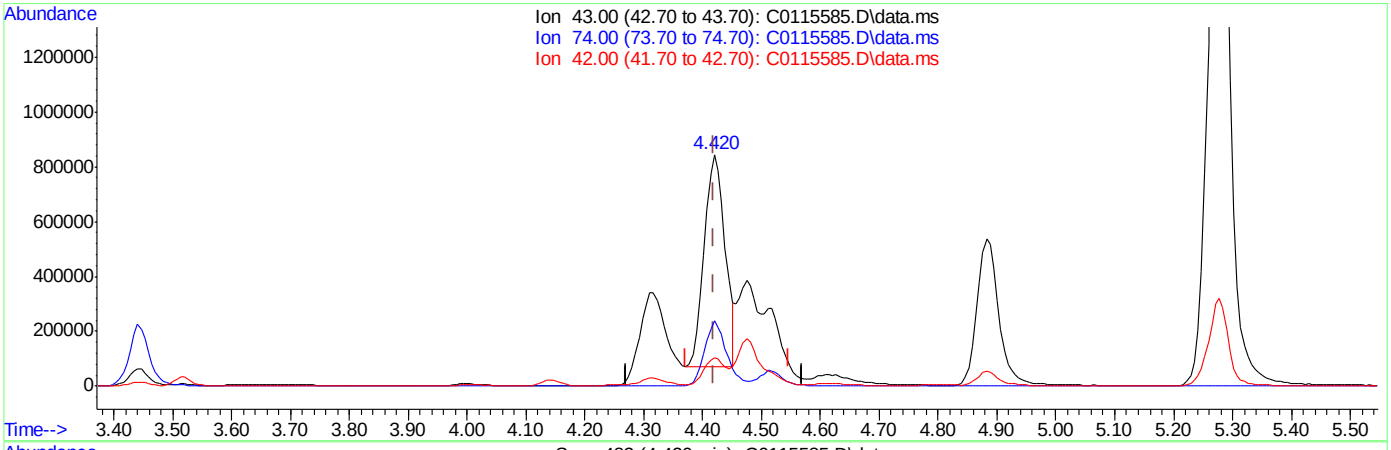
Ion	Exp%	Act%
43.00	100	100
74.00	28.40	30.61
42.00	15.10	12.43
0.00	0.00	0.00

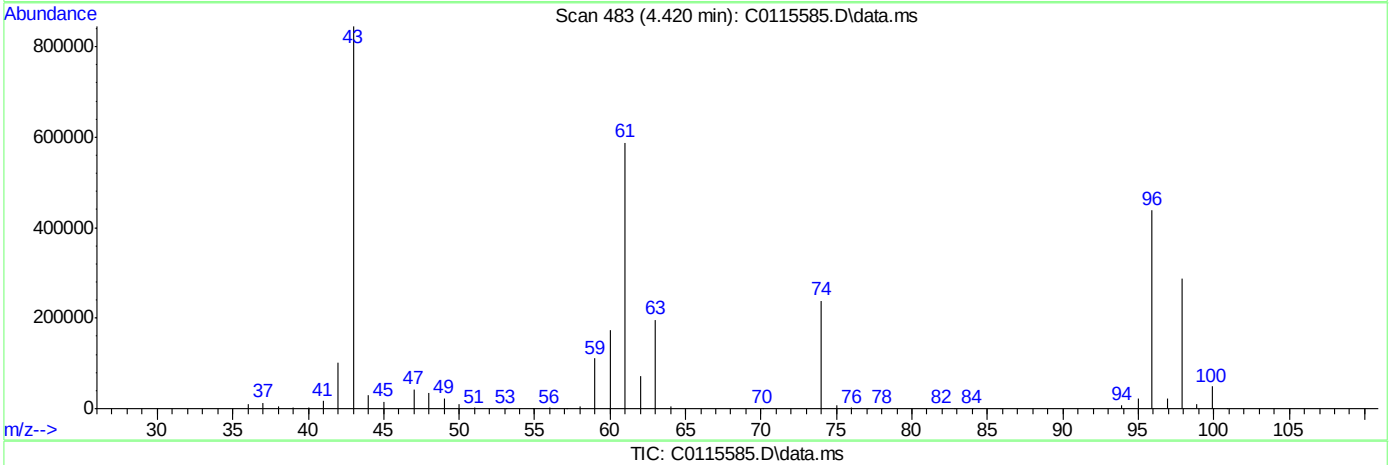
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 12 14:55:25 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration





TIC: C0115585.D\data.ms

(17) Methyl acetate

4.420min (-0.000) 574.97ug/Kg m

response 1904996

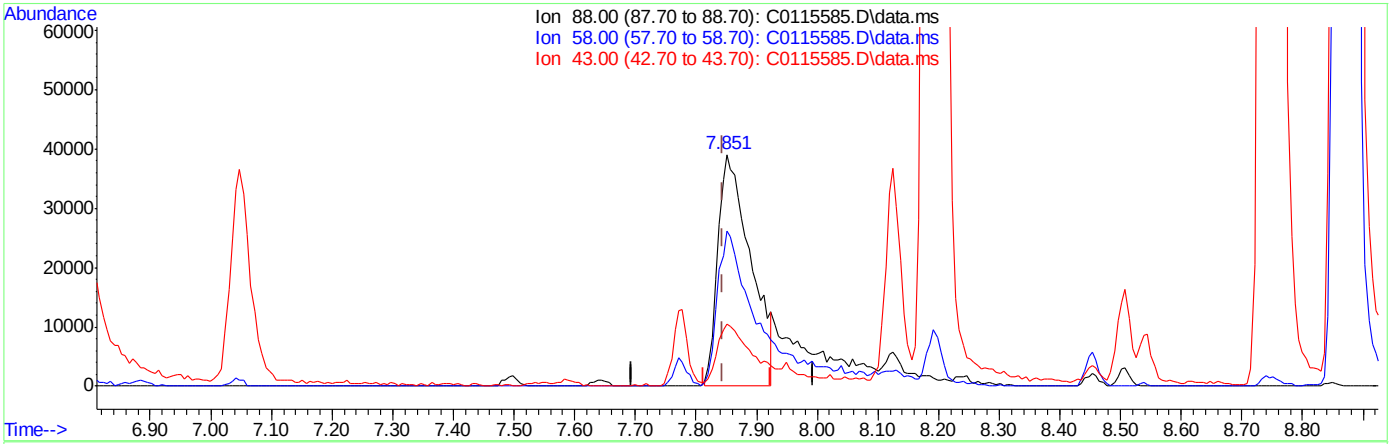
Ion	Exp%	Act%
43.00	100	100
74.00	28.40	28.23
42.00	15.10	12.16
0.00	0.00	0.00

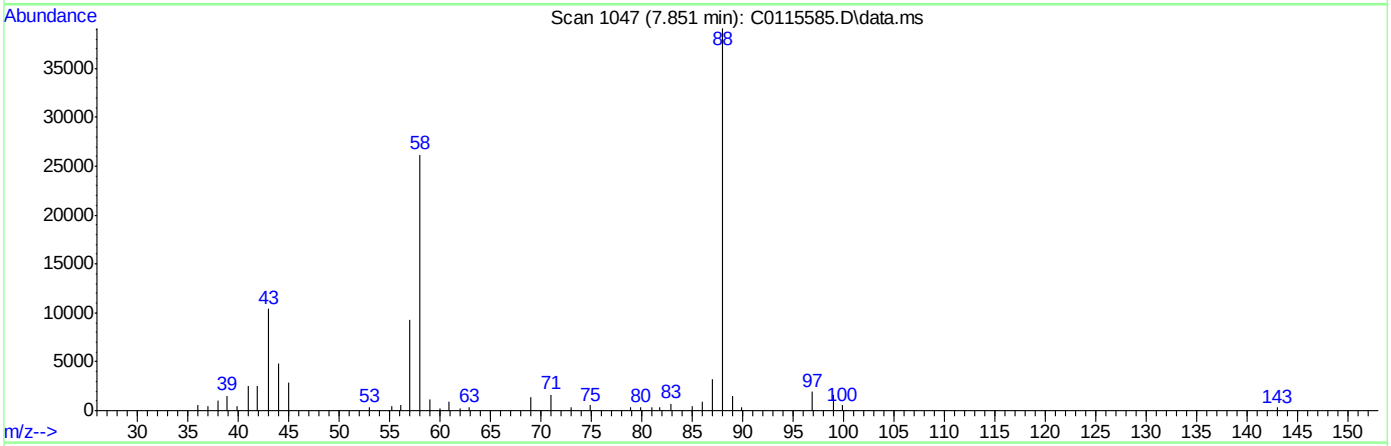
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115585.D
Acq On : 12 May 2016 2:33 pm
Operator : ericp
Sample : IC4595-7 Inst : MSVOA5
Misc : ms33242,vc4595,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 13 07:21:26 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Thu May 12 14:52:47 2016
Response via : Initial Calibration





TIC: C0115585.D\data.ms

(109) 1,4-Dioxane

7.851min (+0.006) 4134.47ug/Kg m

response 146729

Ion	Exp%	Act%
88.00	100	100
58.00	60.50	66.89
43.00	26.20	26.62
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:25:36 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.890	96	963243	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	651714	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	334369	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.523	65	87044	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	275022	48.82	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.64%			
44) 1,2-Dichloroethane-d4	6.616	65	294399	46.05	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 92.10%			
55) Toluene-d8	8.453	98	913623	48.29	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 96.58%			
77) 4-Bromofluorobenzene	11.227	174	221619	50.94	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 101.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.230	85	586270	53.93	ug/Kg	96
3) Chloromethane	2.418	50	596844	58.27	ug/Kg	99
4) Vinyl Chloride	2.534	62	473683	55.24	ug/Kg	99
5) Bromomethane	2.880	94	195504	54.18	ug/Kg	96
6) Chloroethane	3.020	64	157745	52.23	ug/Kg	92
7) Trichlorofluoromethane	3.172	101	573875	52.20	ug/Kg	98
8) Ethyl Ether	3.440	59	213440	49.28	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.671	67	391305	58.83	ug/Kg	89
10) 1,1-Dichloroethene	3.665	61	518294	53.26	ug/Kg	94
11) Freon 113	3.726	101	322054	52.91	ug/Kg	94
12) Carbon Disulfide	3.714	76	988152	52.55	ug/Kg	94
13) Iodomethane	3.829	142	551832	50.12	ug/Kg	91
14) Allyl chloride	4.152	41	388297	45.21	ug/Kg	82
15) Methylene Chloride	4.261	49	397350	54.57	ug/Kg	95
16) Acetone	4.310	43	273654	213.77	ug/Kg	89
17) Methyl acetate	4.420	43	593979	249.93	ug/Kg	97
18) trans-1,2-Dichloroethene	4.426	61	467426	58.12	ug/Kg	99
19) Hexane	4.480	56	226359	51.83	ug/Kg	90
20) Methyl Tert Butyl Ether	4.517	73	787050	49.58	ug/Kg	96
21) Acetonitrile	4.797	41	163317	454.25	ug/Kg	93
22) Di-isopropyl ether	4.882	45	800094	50.02	ug/Kg	96
23) Chloroprene	5.022	53	528249	46.00	ug/Kg	92
24) 1,1-Dichloroethane	5.046	63	572969	54.01	ug/Kg	97
25) Acrylonitrile	5.107	52	277542	239.51	ug/Kg	92
26) ETBE	5.253	59	826777	49.46	ug/Kg	97
27) Vinyl acetate	5.277	43	1883473	256.96	ug/Kg	97
28) cis-1,2-Dichloroethene	5.600	96	371750	49.68	ug/Kg	98
29) 2,2-Dichloropropane	5.709	77	416507	56.20	ug/Kg	95
30) Bromochloromethane	5.807	128	156966	47.19	ug/Kg#	88
31) Cyclohexane	5.807	84	487625	48.51	ug/Kg	95
32) Chloroform	5.867	83	618449	52.19	ug/Kg	98
33) Ethyl acetate	5.965	43	754352	255.20	ug/Kg	98
34) Tetrahydrofuran	6.044	42	45048	53.20	ug/Kg	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:25:36 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.020	117	609615	51.95	ug/Kg	99
37)	1,1,1-Trichloroethane	6.093	97	563718	51.30	ug/Kg	94
38)	2-Butanone	6.184	43	372715	218.08	ug/Kg	95
39)	1,1-Dichloropropene	6.214	75	461651	52.93	ug/Kg	93
40)	Propionitrile	6.506	54	244176	480.12	ug/Kg	87
41)	Methacrylonitrile	6.518	41	1008885	479.23	ug/Kg	95
42)	Benzene	6.476	78	1187053	50.51	ug/Kg	95
43)	TAME	6.561	73	701764	47.11	ug/Kg	95
45)	1,2-Dichloroethane	6.683	62	411111	49.82	ug/Kg	94
46)	Trichloroethene	7.060	95	328422	51.05	ug/Kg	99
47)	Methylcyclohexane	7.048	83	559079	52.62	ug/Kg	98
48)	Dibromomethane	7.498	93	188771	51.20	ug/Kg	87
49)	1,2-Dichloropropane	7.589	63	262953	48.44	ug/Kg	82
50)	Bromodichloromethane	7.644	83	409398	50.69	ug/Kg	98
51)	Methyl methacrylate	7.772	41	133259	49.44	ug/Kg	90
52)	2-Chloroethyl vinyl ether	8.191	63	531118	249.64	ug/Kg	96
53)	cis-1,3-Dichloropropene	8.271	75	430280	57.01	ug/Kg	93
56)	Toluene	8.508	91	1160609	52.64	ug/Kg	96
57)	2-Nitropropane	8.745	41	272600	243.02	ug/Kg	96
58)	4-Methyl-2-pentanone	8.867	43	924605	244.79	ug/Kg	95
59)	trans-1,3-Dichloropropene	8.915	75	321434	59.17	ug/Kg#	82
60)	Tetrachloroethene	8.897	166	277910	50.08	ug/Kg	94
61)	Ethyl methacrylate	9.043	69	205443	44.78	ug/Kg	94
62)	1,1,2-Trichloroethane	9.080	83	174988	50.02	ug/Kg	96
63)	Dibromochloromethane	9.262	129	262902	54.29	ug/Kg	93
64)	1,3-Dichloropropane	9.359	76	332140	52.37	ug/Kg	94
65)	1,2-Dibromoethane	9.512	107	199767	53.84	ug/Kg	94
66)	2-hexanone	9.694	43	496533	222.32	ug/Kg	95
67)	1-Chlorohexane	9.974	91	365786	52.51	ug/Kg	95
68)	Ethylbenzene	10.035	91	1240675	53.68	ug/Kg	97
69)	Chlorobenzene	10.023	112	694459	53.34	ug/Kg	97
70)	1,1,1,2-Tetrachloroethane	10.083	131	319881	53.29	ug/Kg	91
71)	m,p-Xylene	10.175	91	1920170	113.92	ug/Kg	97
72)	o-Xylene	10.613	91	1170629	53.72	ug/Kg	95
73)	Styrene	10.667	104	696163	54.38	ug/Kg	95
74)	Bromoform	10.716	173	128561	54.52	ug/Kg	94
75)	Isopropylbenzene	10.923	105	1408713	55.36	ug/Kg	99
78)	cis-1,4-Dichloro-2-butene	11.282	53	48556	44.10	ug/Kg	80
79)	n-Propylbenzene	11.343	91	1514961	51.30	ug/Kg	99
80)	Bromobenzene	11.343	156	274222	51.63	ug/Kg	92
81)	1,1,2,2-Tetrachloroethane	11.422	83	284407	47.40	ug/Kg	98
82)	1,3,5-Trimethylbenzene	11.537	105	1156033	49.06	ug/Kg	96
83)	2-Chlorotoluene	11.519	91	1104762	54.94	ug/Kg	98
84)	trans-1,4-Dichloro-2-B...	11.604	53	48798	50.67	ug/Kg	78
85)	1,2,3-Trichloropropane	11.574	110	76078	48.25	ug/Kg	98
86)	Cyclohexanone	11.629	55	39457	238.72	ug/Kg	95
87)	4-Chlorotoluene	11.689	91	932534	56.50	ug/Kg	100
88)	tert-Butylbenzene	11.866	91	773578	47.65	ug/Kg	92
89)	1,2,4-Trimethylbenzene	11.939	105	1147223	49.32	ug/Kg	96
90)	Pentachloroethane	11.908	167	194509	54.05	ug/Kg	88

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:25:36 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.048	105	1519173	52.60	ug/Kg	99
92)	4-Isopropyltoluene	12.188	119	1236784	49.72	ug/Kg	99
93)	1,3-Dichlorobenzene	12.298	146	575467	54.79	ug/Kg	97
94)	1,4-Dichlorobenzene	12.389	146	549081	54.23	ug/Kg	98
95)	n-Butylbenzene	12.626	92	697035	51.85	ug/Kg	99
96)	Benzyl Chloride	12.645	126	111326	54.49	ug/Kg#	49
97)	1,2-Dichlorobenzene	12.833	146	593163	55.36	ug/Kg	98
98)	1,2-Dibromo-3-Chloropr...	13.642	75	69693	49.83	ug/Kg	91
99)	Hexachlorobutadiene	14.220	225	244939	51.80	ug/Kg	89
100)	1,2,4-Trichlorobenzene	14.263	180	439744	57.32	ug/Kg	94
101)	Naphthalene	14.555	128	1172105	59.05	ug/Kg	98
102)	1,2,3-Trichlorobenzene	14.713	180	451601	57.38	ug/Kg	97
104)	Ethanol	3.592	45	30334m	1166.63	ug/Kg	
105)	Acrolein	4.012	56	176183	322.75	ug/Kg	97
106)	Tert butyl alcohol	4.596	59	243941	551.00	ug/Kg	93
107)	Isobutyl alcohol	6.652	42	91487	1078.13	ug/Kg	84
108)	Tert Amyl Alcohol	6.756	59	186322	561.19	ug/Kg	96
109)	1,4-Dioxane	7.845	88	43299	1183.22	ug/Kg	96

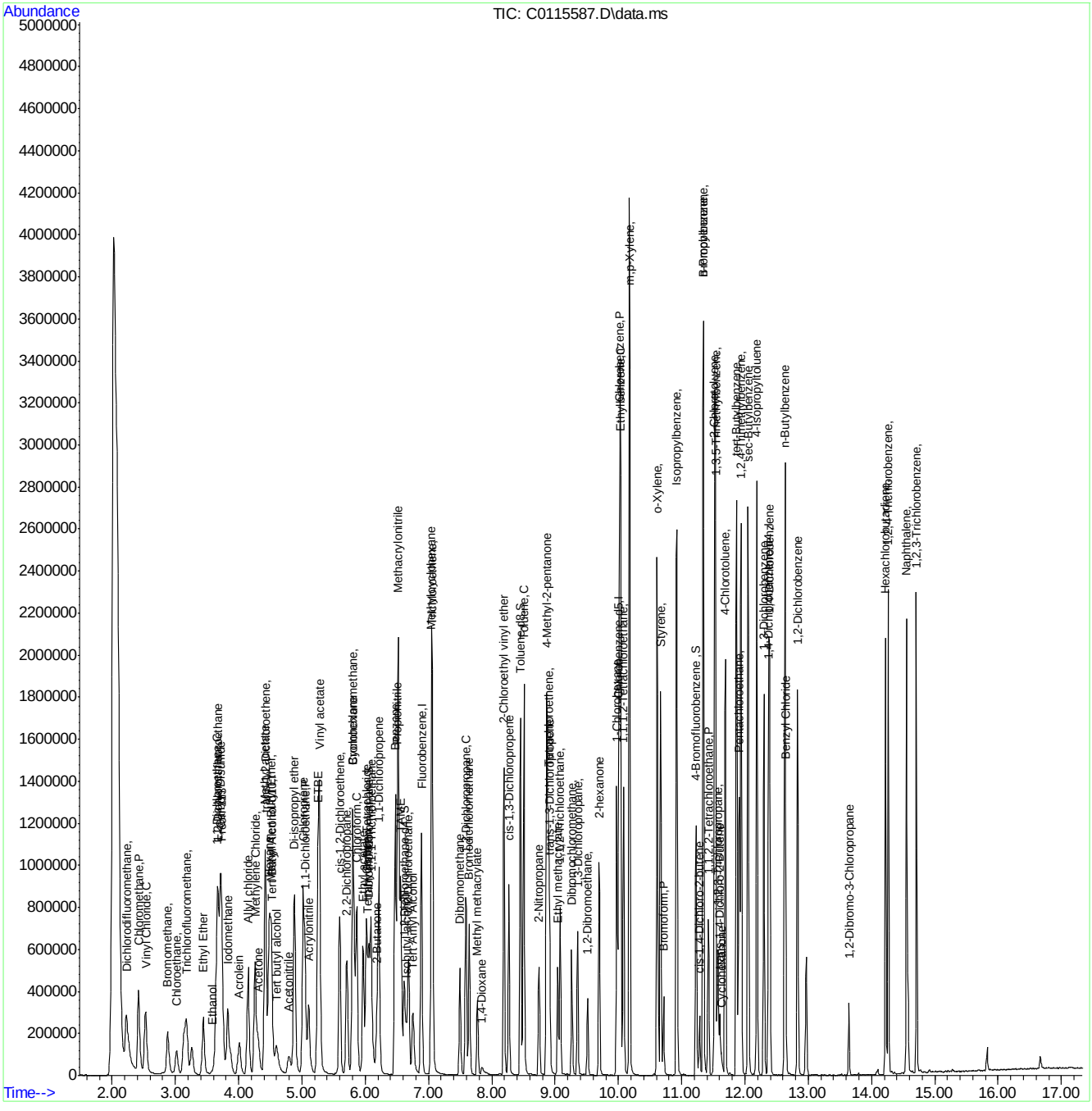
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:25:36 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

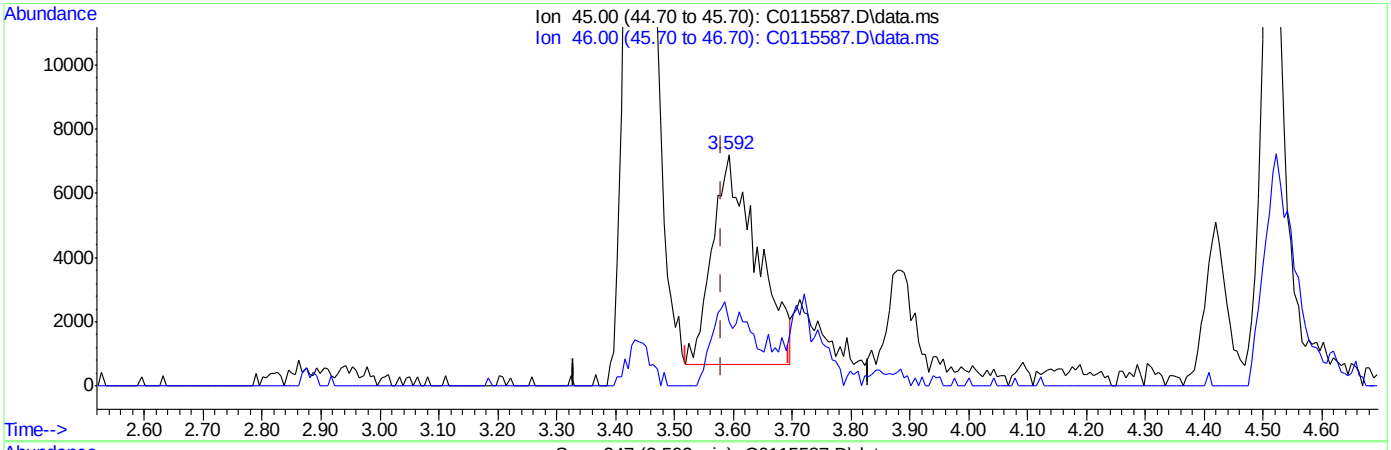
Sample Number:	VC4595-ICV4595	**Method:**	SW846 8260B
Lab FileID:	C0115587.D	**Analyst approved:**	05/13/16 08:01 Eric Parrish
Injection Time:	05/12/16 15:25	**Supervisor approved:**	05/13/16 11:58 Melissa Mangual

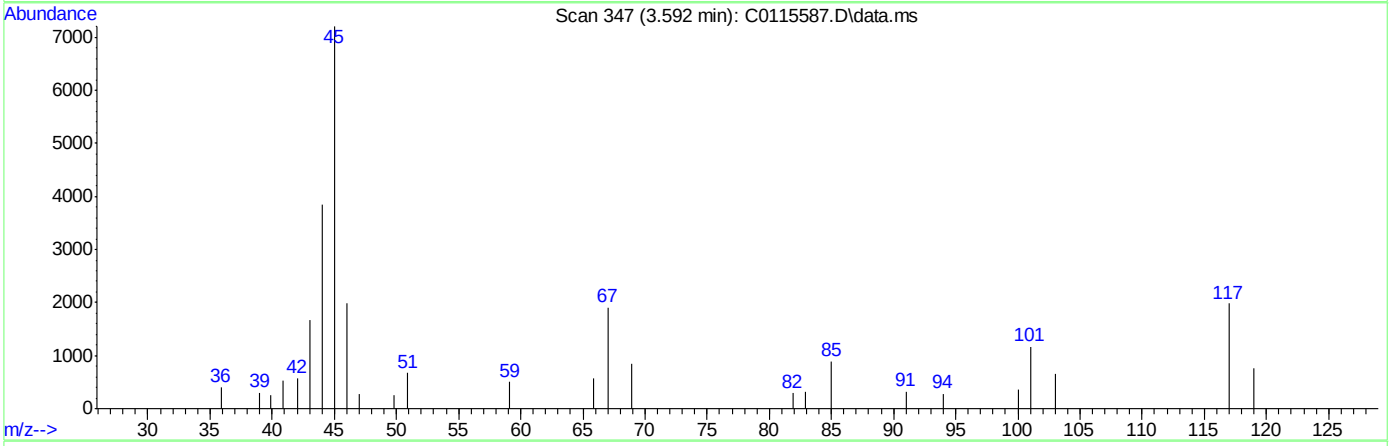
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.59	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:24:55 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration





TIC: C0115587.D\data.ms

(104) Ethanol

3.592min (+0.012) 1313.89ug/Kg

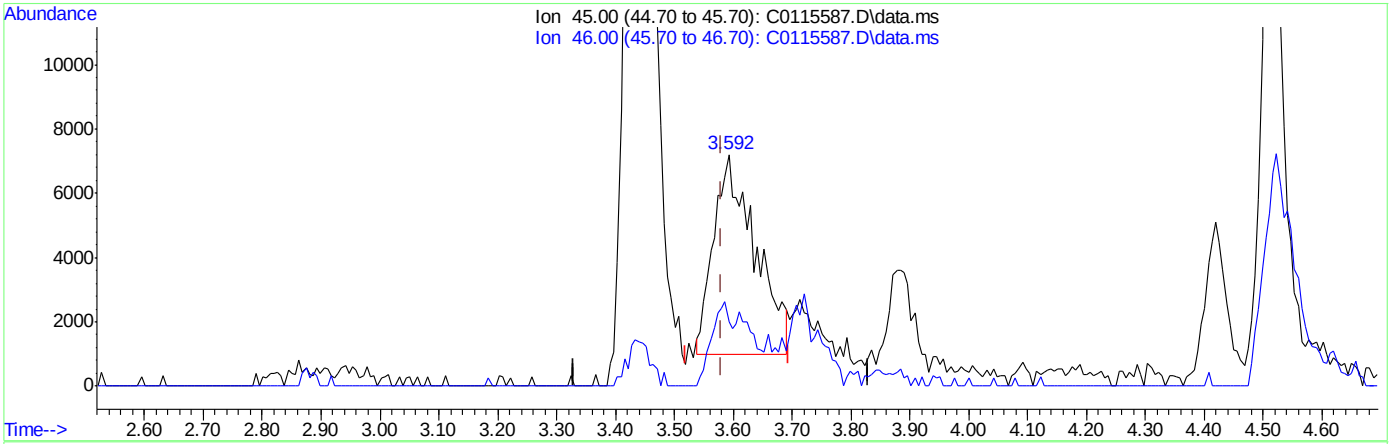
response 34163

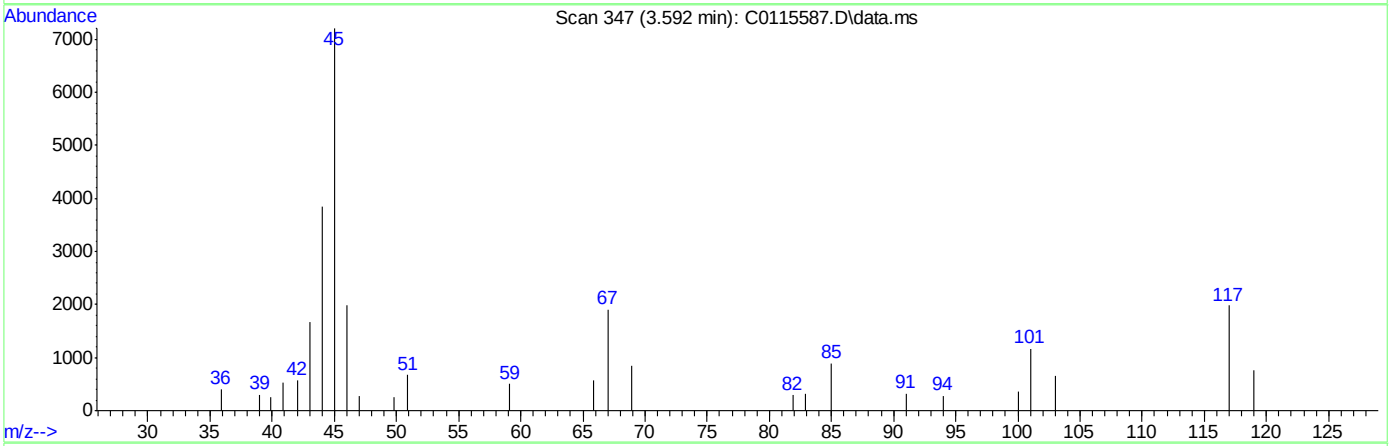
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	30.48
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115587.D
Acq On : 12 May 2016 3:25 pm
Operator : ericp
Sample : ICV4595-4 Inst : MSVOA5
Misc : ms33242,vc4595,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 13 07:24:55 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration





TIC: C0115587.D\data.ms

(104) Ethanol

3.592min (+0.012) 1166.63ug/Kg m

response 30334

Ion	Exp%	Act%
45.00	100	100
46.00	30.00	27.61
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/13/16 11:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:33 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.889	96	990087	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	687002	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	336645	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.523	65	98434	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	284611	49.15	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.30%			
44) 1,2-Dichloroethane-d4	6.616	65	293311	44.64	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 89.28%			
55) Toluene-d8	8.453	98	970752	48.67	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.34%			
77) 4-Bromofluorobenzene	11.227	174	229872	52.48	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 104.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.229	85	651227	58.28	ug/Kg	97
3) Chloromethane	2.418	50	643123	61.08	ug/Kg	98
4) Vinyl Chloride	2.528	62	502734	57.04	ug/Kg	100
5) Bromomethane	2.874	94	169888	45.49	ug/Kg	94
6) Chloroethane	3.020	64	153642	49.21	ug/Kg	92
7) Trichlorofluoromethane	3.172	101	541189	47.90	ug/Kg	94
8) Ethyl Ether	3.440	59	237655	53.38	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.671	67	394232	57.57	ug/Kg	87
10) 1,1-Dichloroethene	3.665	61	549413	55.03	ug/Kg	96
11) Freon 113	3.726	101	373614	59.97	ug/Kg	92
12) Carbon Disulfide	3.714	76	1066585	55.40	ug/Kg	92
13) Iodomethane	3.829	142	596458	52.71	ug/Kg	91
14) Allyl chloride	4.146	41	476699	54.52	ug/Kg	82
15) Methylene Chloride	4.255	49	410363	54.85	ug/Kg	98
16) Acetone	4.310	43	311496	237.67	ug/Kg	88
17) Methyl acetate	4.420	43	688746	284.70	ug/Kg	97
18) trans-1,2-Dichloroethene	4.420	61	448565	54.06	ug/Kg	97
19) Hexane	4.480	56	262779	58.86	ug/Kg	90
20) Methyl Tert Butyl Ether	4.511	73	836659	51.28	ug/Kg	94
21) Acetonitrile	4.791	41	187066	509.07	ug/Kg	100
22) Di-isopropyl ether	4.876	45	863971	52.55	ug/Kg	96
23) Chloroprene	5.016	53	585680	49.62	ug/Kg	90
24) 1,1-Dichloroethane	5.046	63	585664	53.69	ug/Kg	100
25) Acrylonitrile	5.107	52	289477	243.04	ug/Kg	93
26) ETBE	5.253	59	898640	52.30	ug/Kg	97
27) Vinyl acetate	5.277	43	1589264	208.09	ug/Kg	95
28) cis-1,2-Dichloroethene	5.594	96	398396	51.80	ug/Kg	98
29) 2,2-Dichloropropane	5.709	77	392426	51.13	ug/Kg	96
30) Bromochloromethane	5.807	128	170500	49.87	ug/Kg#	87
31) Cyclohexane	5.807	84	541539	52.41	ug/Kg	93
32) Chloroform	5.867	83	650183	53.43	ug/Kg	98
33) Ethyl acetate	5.965	43	748128	246.23	ug/Kg	99
34) Tetrahydrofuran	6.044	42	44175	50.70	ug/Kg	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:33 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon Tetrachloride	6.019	117	594917	49.32	ug/Kg	97
37) 1,1,1-Trichloroethane	6.093	97	560146	49.50	ug/Kg	96
38) 2-Butanone	6.184	43	411322	234.15	ug/Kg	95
39) 1,1-Dichloropropene	6.214	75	450195	50.22	ug/Kg	92
40) Propionitrile	6.506	54	250669	479.49	ug/Kg	80
41) Methacrylonitrile	6.518	41	1030512	476.23	ug/Kg	94
42) Benzene	6.476	78	1240473	51.36	ug/Kg	95
43) TAME	6.561	73	764526	49.94	ug/Kg	95
45) 1,2-Dichloroethane	6.683	62	408879	48.20	ug/Kg	94
46) Trichloroethene	7.060	95	325249	49.18	ug/Kg	98
47) Methylcyclohexane	7.048	83	583474	53.42	ug/Kg	96
48) Dibromomethane	7.498	93	179853	47.46	ug/Kg	88
49) 1,2-Dichloropropane	7.589	63	276606	49.58	ug/Kg	79
50) Bromodichloromethane	7.644	83	400416	48.24	ug/Kg	97
51) Methyl methacrylate	7.772	41	143788	51.82	ug/Kg	87
52) 2-Chloroethyl vinyl ether	8.191	63	575274	263.42	ug/Kg	96
53) cis-1,3-Dichloropropene	8.270	75	437613	56.41	ug/Kg	90
56) Toluene	8.508	91	1196509	51.48	ug/Kg	94
57) 2-Nitropropane	8.745	41	281227	237.83	ug/Kg	95
58) 4-Methyl-2-pentanone	8.867	43	997790	250.59	ug/Kg	95
59) trans-1,3-Dichloropropene	8.915	75	299308	52.27	ug/Kg	95
60) Tetrachloroethene	8.891	166	290437	49.65	ug/Kg	97
61) Ethyl methacrylate	9.043	69	221089	45.71	ug/Kg	93
62) 1,1,2-Trichloroethane	9.080	83	184525	50.04	ug/Kg	91
63) Dibromochloromethane	9.262	129	266066	52.12	ug/Kg	100
64) 1,3-Dichloropropane	9.359	76	358073	53.56	ug/Kg	94
65) 1,2-Dibromoethane	9.518	107	209421	53.54	ug/Kg	97
66) 2-hexanone	9.694	43	552679	235.34	ug/Kg	96
67) 1-Chlorohexane	9.974	91	369353	50.27	ug/Kg	95
68) Ethylbenzene	10.035	91	1234392	50.66	ug/Kg	98
69) Chlorobenzene	10.023	112	688592	50.18	ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.083	131	320580	50.66	ug/Kg	90
71) m,p-Xylene	10.175	91	1845198	103.85	ug/Kg	96
72) o-Xylene	10.613	91	1141375	49.45	ug/Kg	95
73) Styrene	10.667	104	675032	49.94	ug/Kg	96
74) Bromoform	10.716	173	123867	49.83	ug/Kg	89
75) Isopropylbenzene	10.923	105	1354016	50.20	ug/Kg	99
78) cis-1,4-Dichloro-2-butene	11.282	53	49830	44.96	ug/Kg#	76
79) n-Propylbenzene	11.343	91	1368980	45.49	ug/Kg	99
80) Bromobenzene	11.343	156	272466	50.95	ug/Kg	92
81) 1,1,2,2-Tetrachloroethane	11.422	83	300124	49.68	ug/Kg	98
82) 1,3,5-Trimethylbenzene	11.531	105	1093700	45.86	ug/Kg	99
83) 2-Chlorotoluene	11.519	91	1013955	50.08	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.598	53	51619	53.24	ug/Kg	85
85) 1,2,3-Trichloropropane	11.574	110	76352	48.09	ug/Kg	95
86) Cyclohexanone	11.629	55	45660	274.38	ug/Kg	99
87) 4-Chlorotoluene	11.689	91	816874	49.16	ug/Kg	98
88) tert-Butylbenzene	11.866	91	766463	46.85	ug/Kg	93
89) 1,2,4-Trimethylbenzene	11.939	105	1032038	43.65	ug/Kg	97
90) Pentachloroethane	11.908	167	171533	47.35	ug/Kg	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:33 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.048	105	1437653	49.21	ug/Kg	97
92) 4-Isopropyltoluene	12.188	119	1096656	43.39	ug/Kg	99
93) 1,3-Dichlorobenzene	12.298	146	489171	46.26	ug/Kg	99
94) 1,4-Dichlorobenzene	12.389	146	460288	45.15	ug/Kg	96
95) n-Butylbenzene	12.626	92	555957	40.52	ug/Kg	98
96) Benzyl Chloride	12.638	126	93633	45.52	ug/Kg#	79
97) 1,2-Dichlorobenzene	12.833	146	535850	49.67	ug/Kg	99
98) 1,2-Dibromo-3-Chloropr...	13.642	75	64326	45.68	ug/Kg	88
99) Hexachlorobutadiene	14.220	225	193435	40.63	ug/Kg	89
100) 1,2,4-Trichlorobenzene	14.263	180	312398	40.44	ug/Kg	96
101) Naphthalene	14.555	128	990948	49.28	ug/Kg	99
102) 1,2,3-Trichlorobenzene	14.713	180	359970	45.43	ug/Kg	97
104) Ethanol	3.598	45	30702m	1044.15	ug/Kg	
105) Acrolein	4.012	56	168994	273.76	ug/Kg	94
106) Tert butyl alcohol	4.590	59	257553	514.43	ug/Kg	99
107) Isobutyl alcohol	6.646	42	93083	970.01	ug/Kg	92
108) Tert Amyl Alcohol	6.750	59	197968	527.27	ug/Kg	99
109) 1,4-Dioxane	7.845	88	47496	1147.05	ug/Kg	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.9

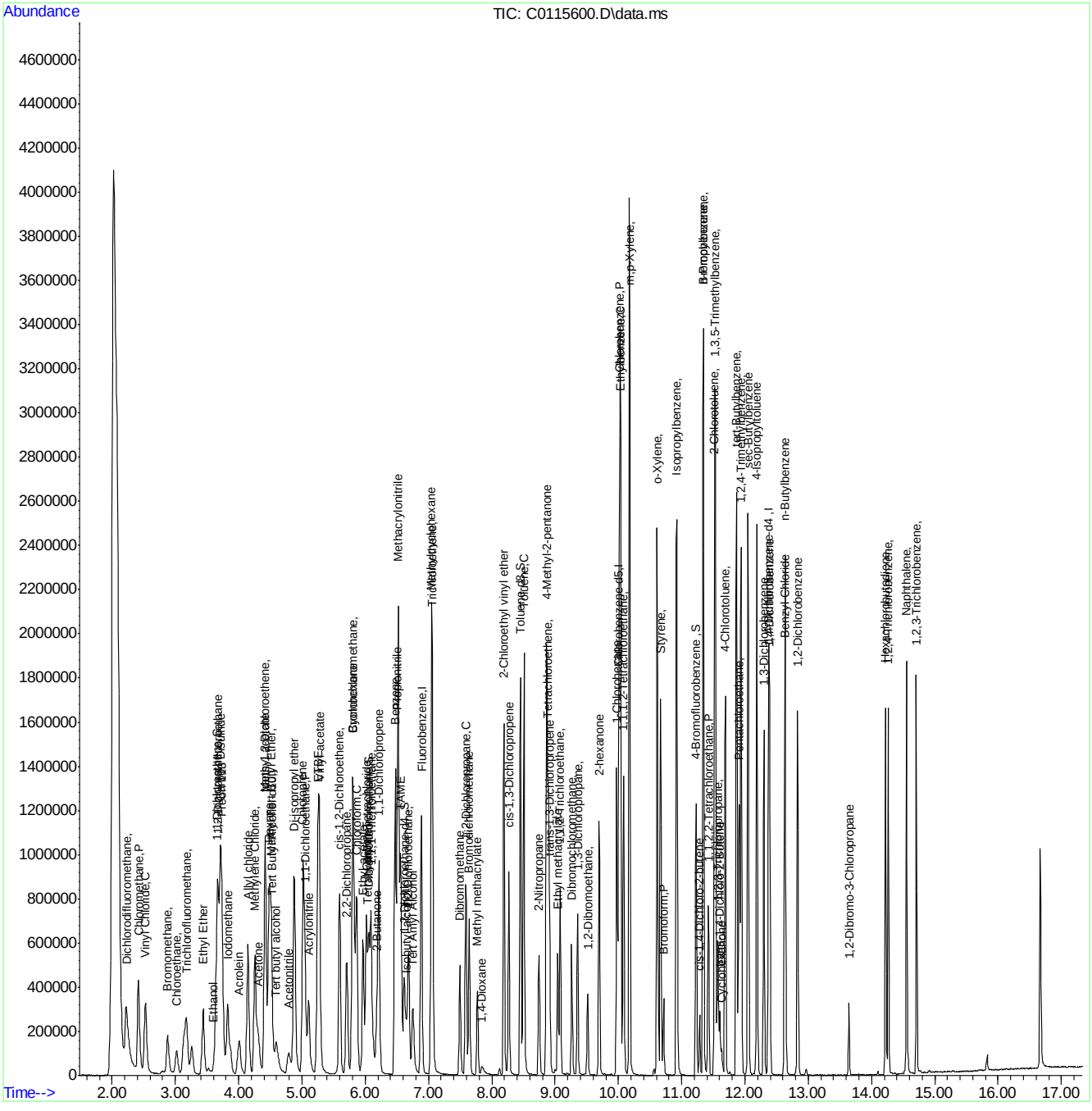
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:33 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

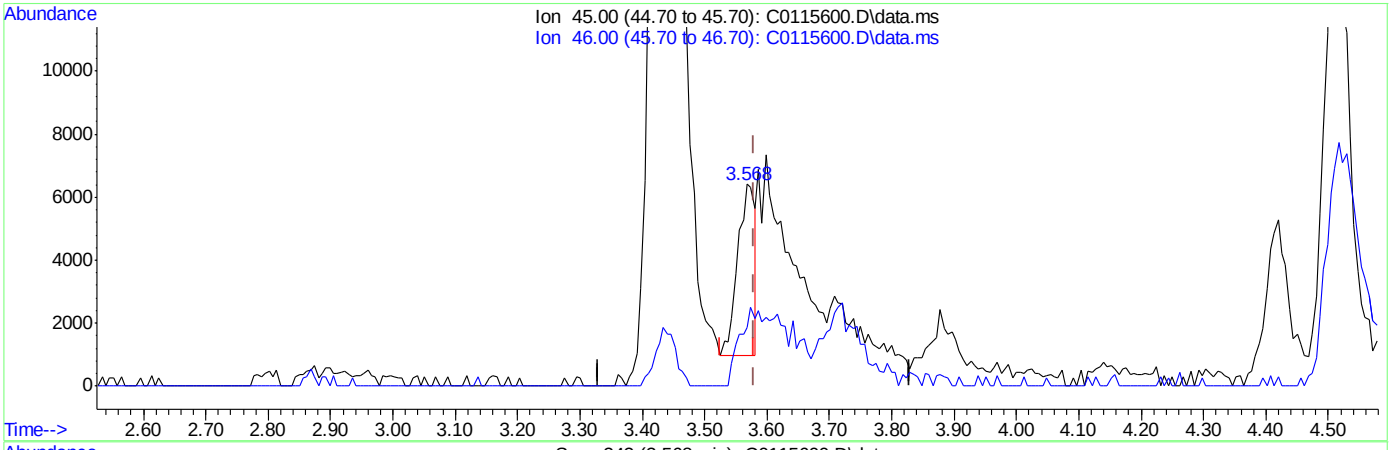
Sample Number:	VC4595-ECC4595	**Method:**	SW846 8260B
Lab FileID:	C0115600.D	**Analyst approved:**	05/13/16 08:01 Eric Parrish
Injection Time:	05/12/16 20:58	**Supervisor approved:**	05/13/16 11:58 Melissa Mangual

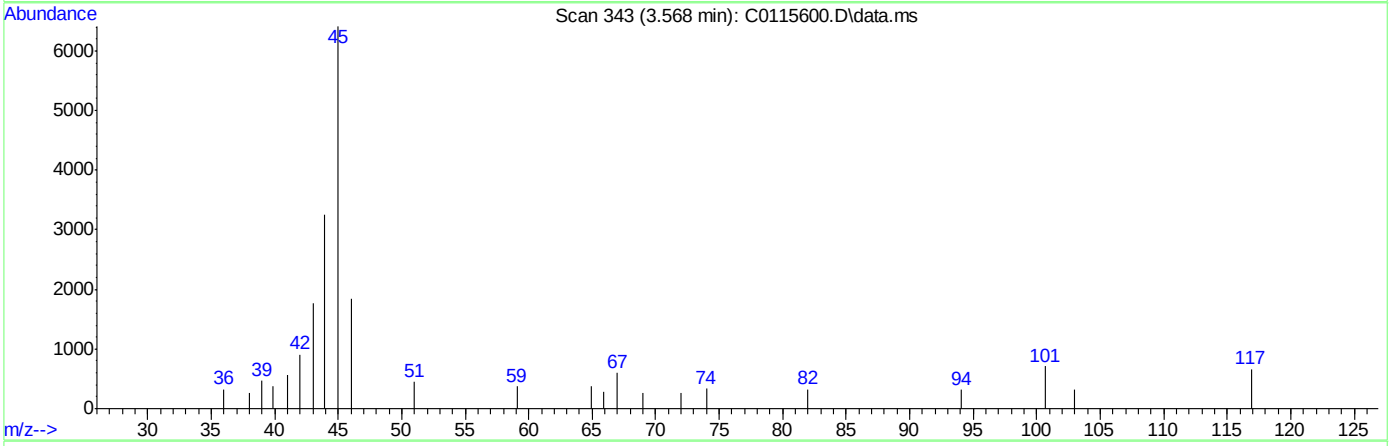
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.60	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:04 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration





TIC: C0115600.D\data.ms

(104) Ethanol

3.568min (-0.012) 353.49ug/Kg

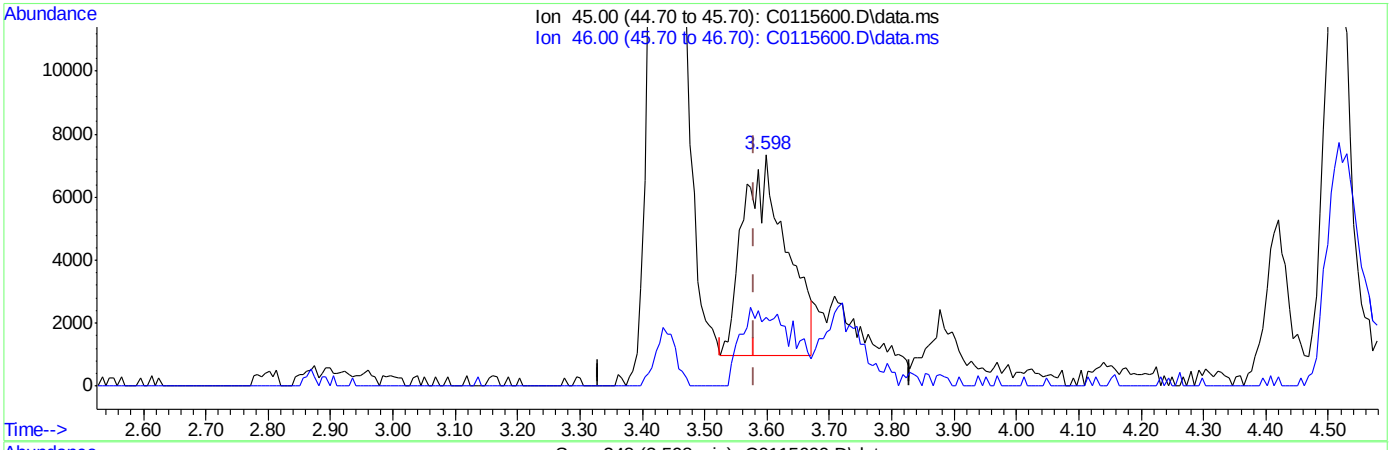
response 10394

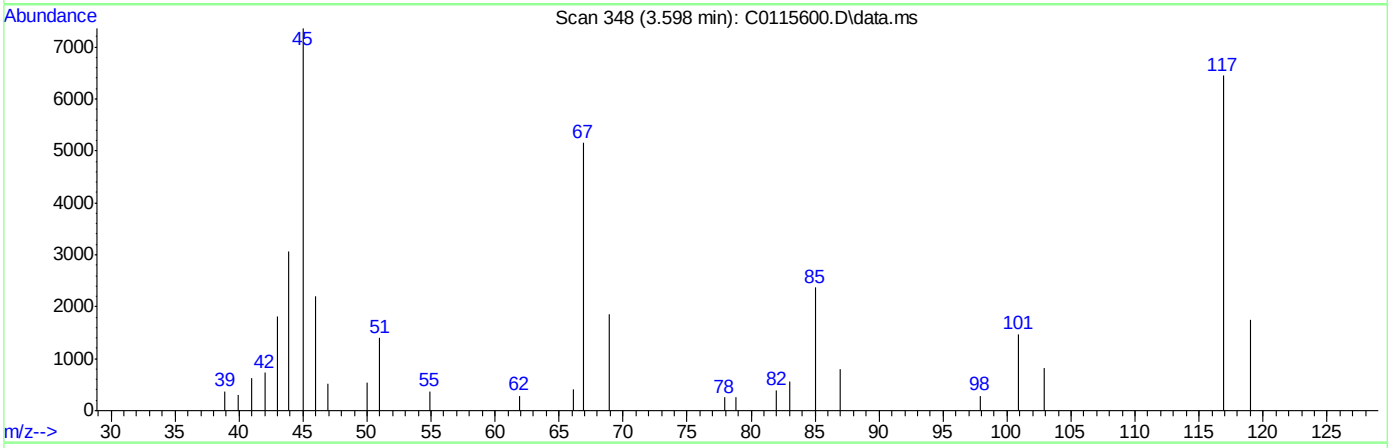
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	33.97
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\051216\
Data File : C0115600.D
Acq On : 12 May 2016 8:58 pm
Operator : ericp
Sample : ECC4595-4 Inst : MSVOA5
Misc : ms33860,vc4595,5.00,,,5,,
ALS Vial : 27 Sample Multiplier: 1

Quant Time: May 13 07:40:04 2016
Quant Method : C:\msdchem\2\METHODS\051216APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Fri May 13 07:23:59 2016
Response via : Initial Calibration





TIC: C0115600.D\data.ms

(104) Ethanol

3.598min (+0.018) 1044.15ug/Kg m

response 30702

Ion	Exp%	Act%
45.00	100	100
46.00	30.00	29.91
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/12/16 09:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077208.D
Acq On : 9 May 2016 8:45 am
Operator : ericp
Sample : IC2649-1 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 12:26:48 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.088	96	1145482	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	799449	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	402060	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.703	65	180971	250.00	ug/Kg	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.255	113	316329	51.31	ug/Kg	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.62%			
44) 1,2-Dichloroethane-d4	6.814	65	331068	50.79	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 101.58%			
55) Toluene-d8	8.664	98	1059945	49.41	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.82%			
77) 4-Bromofluorobenzene	11.444	174	295754	50.15	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.221	85	50181	4.92	ug/Kg	98
3) Chloromethane	2.446	50	54871	5.06	ug/Kg	96
4) Vinyl Chloride	2.556	62	60489	5.23	ug/Kg	95
5) Bromomethane	2.945	94	31390	5.23	ug/Kg	99
6) Chloroethane	3.085	64	16437	3.78	ug/Kg	87
7) Trichlorofluoromethane	3.237	101	46360m	4.31	ug/Kg	
8) Ethyl Ether	3.560	59	24595	4.85	ug/Kg	87
9) 1,2-Dichlorotrifluoroe...	3.779	67	51767	5.24	ug/Kg	97
10) 1,1-Dichloroethene	3.803	61	77503	5.13	ug/Kg	96
11) Freon 113	3.833	101	45671	4.98	ug/Kg	95
12) Carbon Disulfide	3.864	76	143672	5.11	ug/Kg#	11
13) Iodomethane	3.979	142	76039	4.66	ug/Kg	99
14) Allyl chloride	4.290	41	35744	5.91	ug/Kg	84
15) Methylene Chloride	4.430	49	79825	5.95	ug/Kg	90
16) Acetone	4.466	43	58974	27.36	ug/Kg	76
17) Methyl acetate	4.576	43	112930	28.18	ug/Kg	92
18) trans-1,2-Dichloroethene	4.594	61	53997	5.30	ug/Kg	90
19) Hexane	4.636	56	34826	5.81	ug/Kg	93
20) Methyl Tert Butyl Ether	4.685	73	97176	5.09	ug/Kg	91
21) Acetonitrile	4.959	41	41096	50.47	ug/Kg	93
22) Di-isopropyl ether	5.056	45	119543	5.08	ug/Kg	96
23) Chloroprene	5.190	53	64897	5.20	ug/Kg	94
24) 1,1-Dichloroethane	5.221	63	66782	5.15	ug/Kg	96
25) Acrylonitrile	5.281	53	61183	26.36	ug/Kg	85
26) ETBE	5.446	59	106604	5.00	ug/Kg	96
27) Vinyl acetate	5.458	43	343944	25.25	ug/Kg	97
28) cis-1,2-Dichloroethene	5.786	96	41960	5.07	ug/Kg	98
29) 2,2-Dichloropropane	5.902	77	24573	5.26	ug/Kg	98
30) Bromochloromethane	5.999	128	21314	5.16	ug/Kg	95
31) Cyclohexane	6.005	56	72646	4.99	ug/Kg	93
32) Chloroform	6.054	83	65531	5.13	ug/Kg	98
33) Ethyl acetate	6.163	43	156231	25.30	ug/Kg	98
34) Tetrahydrofuran	6.249	42	10743	5.14	ug/Kg	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077208.D
Acq On : 9 May 2016 8:45 am
Operator : ericp
Sample : IC2649-1 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 12:26:48 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.224	117	40810	5.08	ug/Kg	96
37)	1,1,1-Trichloroethane	6.291	97	41074	5.09	ug/Kg	90
38)	2-Butanone	6.389	43	98933	26.45	ug/Kg	98
39)	1,1-Dichloropropene	6.413	75	52174	5.16	ug/Kg	94
40)	Propionitrile	6.699	54	44246	49.48	ug/Kg	76
41)	Methacrylonitrile	6.717	41	206282	51.68	ug/Kg	98
42)	Benzene	6.675	78	136511	4.94	ug/Kg	97
43)	TAME	6.772	73	100372	5.05	ug/Kg	97
45)	1,2-Dichloroethane	6.881	62	45009	5.10	ug/Kg	93
46)	Trichloroethene	7.265	95	35213	4.88	ug/Kg	90
47)	Methylcyclohexane	7.259	83	64166	4.94	ug/Kg	95
48)	Dibromomethane	7.703	93	18422	4.74	ug/Kg	92
49)	1,2-Dichloropropane	7.800	63	35278	5.05	ug/Kg	82
50)	Bromodichloromethane	7.843	83	35574	5.03	ug/Kg	93
51)	Methyl methacrylate	7.976	41	27475	4.91	ug/Kg	93
52)	2-Chloroethyl vinyl ether	8.396	63	97185	24.83	ug/Kg	97
53)	cis-1,3-Dichloropropene	8.475	75	44866	4.87	ug/Kg	89
56)	Toluene	8.713	91	140118	4.98	ug/Kg	96
57)	2-Nitropropane	8.956	41	31600	26.12	ug/Kg#	72
58)	4-Methyl-2-pentanone	9.078	43	174979	25.28	ug/Kg	95
59)	trans-1,3-Dichloropropene	9.120	75	36115	4.83	ug/Kg#	68
60)	Tetrachloroethene	9.108	166	31216	4.95	ug/Kg	92
61)	Ethyl methacrylate	9.248	69	35391	4.93	ug/Kg	87
62)	1,1,2-Trichloroethane	9.284	83	22796	4.93	ug/Kg	94
63)	Dibromochloromethane	9.479	129	15621	4.74	ug/Kg	88
64)	1,3-Dichloropropane	9.564	76	44242	4.96	ug/Kg	95
65)	1,2-Dibromoethane	9.728	107	26983	5.01	ug/Kg	97
66)	2-hexanone	9.905	43	120857	24.42	ug/Kg	96
67)	1-Chlorohexane	10.185	91	41652	5.04	ug/Kg	90
68)	Ethylbenzene	10.246	91	144404	4.97	ug/Kg	90
69)	Chlorobenzene	10.239	112	78190	4.87	ug/Kg	90
70)	1,1,1,2-Tetrachloroethane	10.294	131	24220	5.08	ug/Kg	88
71)	m,p-Xylene	10.385	91	212433	9.90	ug/Kg	93
72)	o-Xylene	10.830	91	105146	4.89	ug/Kg	98
73)	Styrene	10.878	104	76342	4.84	ug/Kg	90
74)	Bromoform	10.927	173	3902	4.27	ug/Kg	86
75)	Isopropylbenzene	11.140	105	122387	4.91	ug/Kg	97
78)	cis-1,4-Dichloro-2-butene	11.499	53	8859	5.06	ug/Kg#	68
79)	n-Propylbenzene	11.560	91	156256	4.89	ug/Kg	59
80)	Bromobenzene	11.566	156	31752	4.87	ug/Kg	95
81)	1,1,2,2-Tetrachloroethane	11.633	83	33404	4.78	ug/Kg	93
82)	1,3,5-Trimethylbenzene	11.748	105	109188	4.82	ug/Kg	83
83)	2-Chlorotoluene	11.742	91	103861	4.88	ug/Kg	88
84)	trans-1,4-Dichloro-2-B...	11.815	53	9805	5.03	ug/Kg#	59
85)	1,2,3-Trichloropropane	11.785	110	7902	4.75	ug/Kg	88
86)	Cyclohexanone	11.852	55	9589	25.53	ug/Kg	79
87)	4-Chlorotoluene	11.906	91	95074	4.96	ug/Kg	87
88)	tert-Butylbenzene	12.083	91	65443	4.87	ug/Kg	97
89)	1,2,4-Trimethylbenzene	12.156	105	104661	4.85	ug/Kg	96
90)	Pentachloroethane	12.125	167	13274	4.95	ug/Kg#	67

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077208.D
Acq On : 9 May 2016 8:45 am
Operator : ericp
Sample : IC2649-1 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 12:26:48 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration

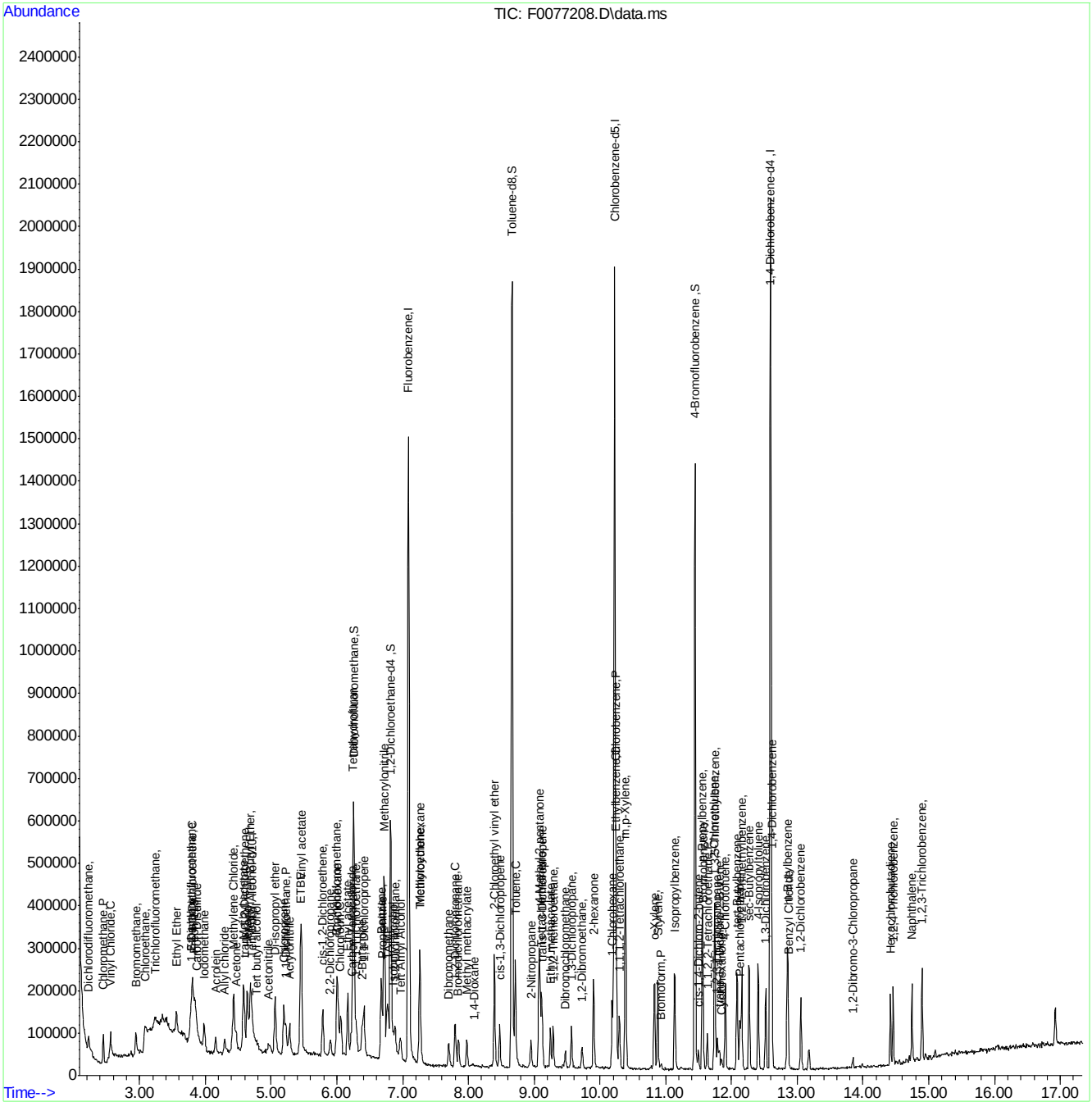
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.265	105	142847	4.88	ug/Kg	97
92) 4-Isopropyltoluene	12.405	119	110345	4.83	ug/Kg	93
93) 1,3-Dichlorobenzene	12.521	146	58442	4.91	ug/Kg	94
94) 1,4-Dichlorobenzene	12.612	146	61229	4.91	ug/Kg	96
95) n-Butylbenzene	12.849	92	65449	4.79	ug/Kg#	74
96) Benzyl Chloride	12.861	126	9574	5.05	ug/Kg#	41
97) 1,2-Dichlorobenzene	13.056	146	56136	4.89	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.847	75	5286	5.03	ug/Kg#	62
99) Hexachlorobutadiene	14.419	225	21265	4.96	ug/Kg	95
100) 1,2,4-Trichlorobenzene	14.455	180	38345	4.91	ug/Kg	92
101) Naphthalene	14.741	128	89704	4.86	ug/Kg	96
102) 1,2,3-Trichlorobenzene	14.900	180	38356	4.93	ug/Kg	96
104) Ethanol	3.791	45	10657m	480.74	ug/Kg	
105) Acrolein	4.156	56	35936	24.79	ug/Kg	89
106) Tert butyl alcohol	4.782	59	42459	48.81	ug/Kg	83
107) Isobutyl alcohol	6.857	42	23861	89.79	ug/Kg#	82
108) Tert Amyl Alcohol	6.967	59	34885	44.93	ug/Kg	92
109) 1,4-Dioxane	8.086	88	6697	81.05	ug/Kg#	43

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077208.D
Acq On : 9 May 2016 8:45 am
Operator : ericp
Sample : IC2649-1 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 12:26:48 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

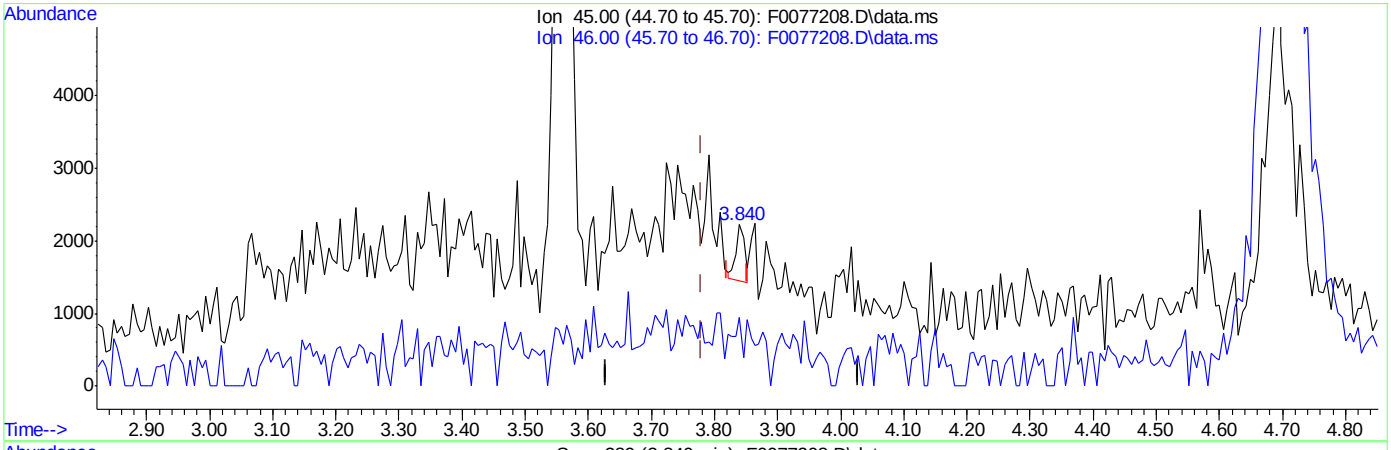
Sample Number:	VF2649-IC2649	**Method:**	SW846 8260B
Lab FileID:	F0077208.D	**Analyst approved:**	05/10/16 07:22 Eric Parrish
Injection Time:	05/09/16 08:45	**Supervisor approved:**	05/12/16 09:56 Juan Garcia

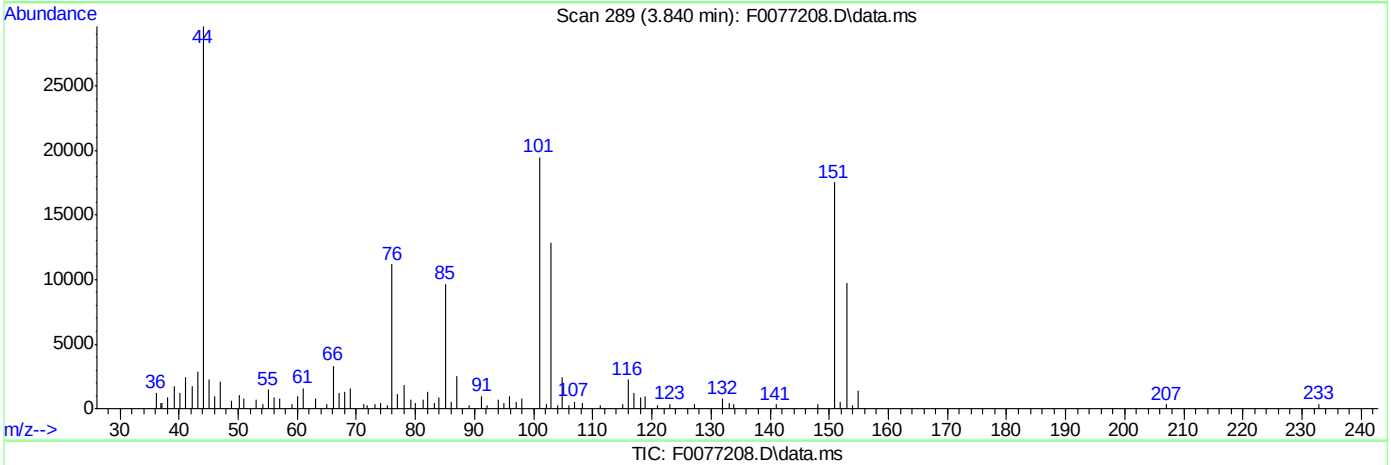
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.24	Poor instrument integration
Ethyl Alcohol	64-17-5		3.79	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077208.D
Acq On : 9 May 2016 8:45 am
Operator : ericp
Sample : IC2649-1 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 09:42:06 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration





TIC: F0077208.D\data.ms

(104) Ethanol

3.840min (+0.061) 33.43ug/Kg

response 741

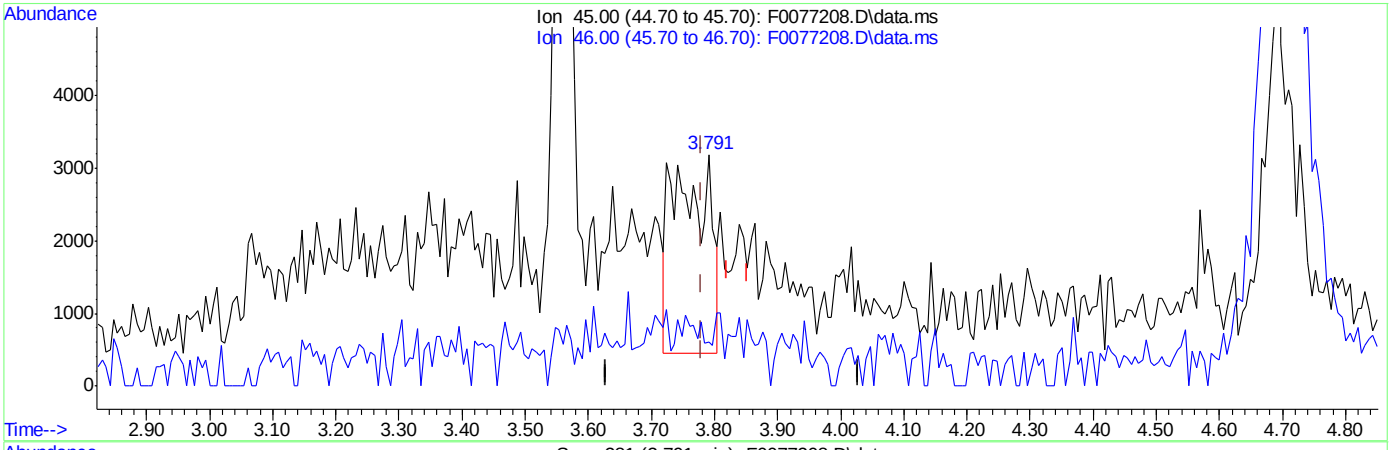
Ion	Exp%	Act%
45.00	100	100
46.00	35.00	35.49
0.00	0.00	0.00
0.00	0.00	0.00

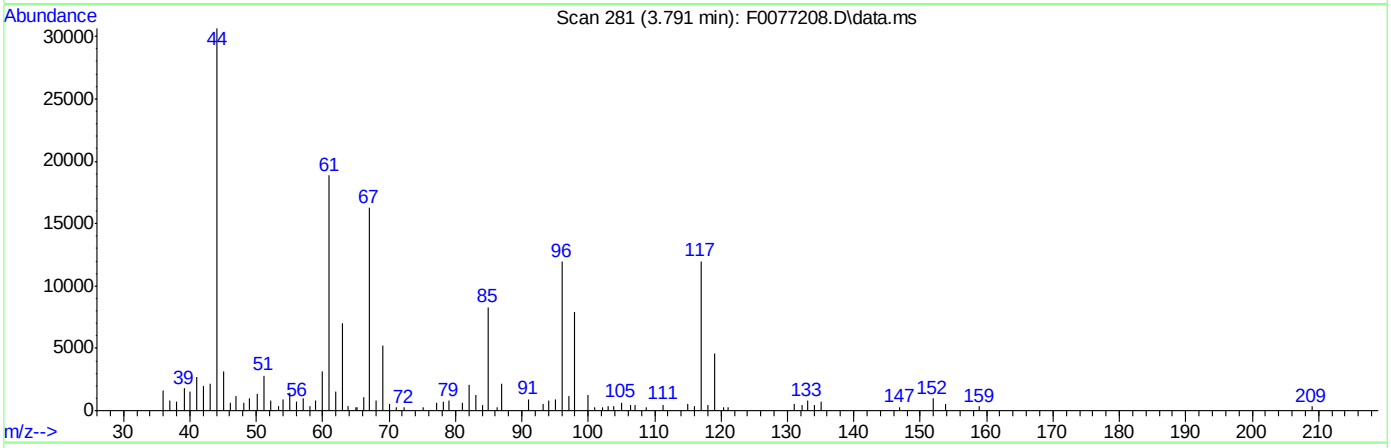
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077208.D
Acq On : 9 May 2016 8:45 am
Operator : ericp
Sample : IC2649-1 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 09:42:06 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration





TIC: F0077208.D\data.ms

(104) Ethanol

3.791min (+0.012) 480.74ug/Kg m

response 10657

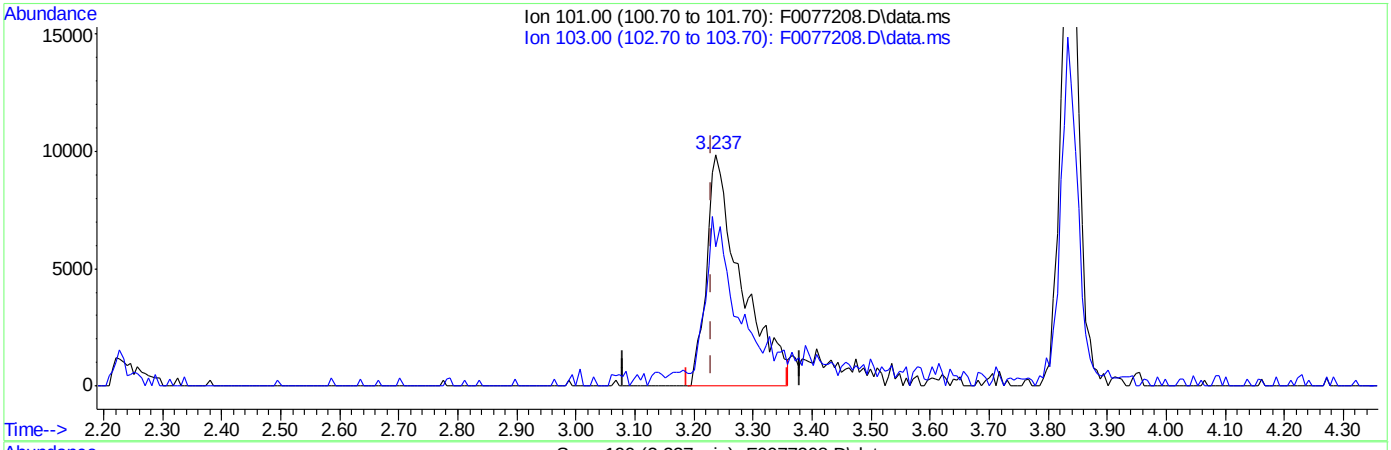
Ion	Exp%	Act%
45.00	100	100
46.00	35.00	18.91
0.00	0.00	0.00
0.00	0.00	0.00

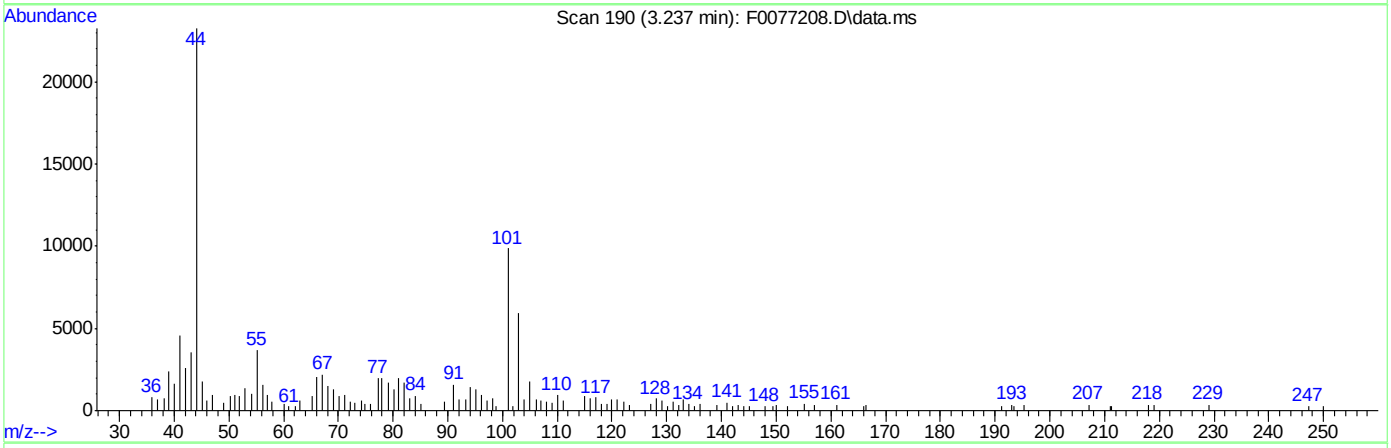
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077208.D
Acq On : 9 May 2016 8:45 am
Operator : ericp
Sample : IC2649-1 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 10:14:42 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration





TIC: F0077208.D\data.ms

(7) Trichlorofluoromethane ( )

3.237min (+0.006) 3.71ug/Kg

response 39896

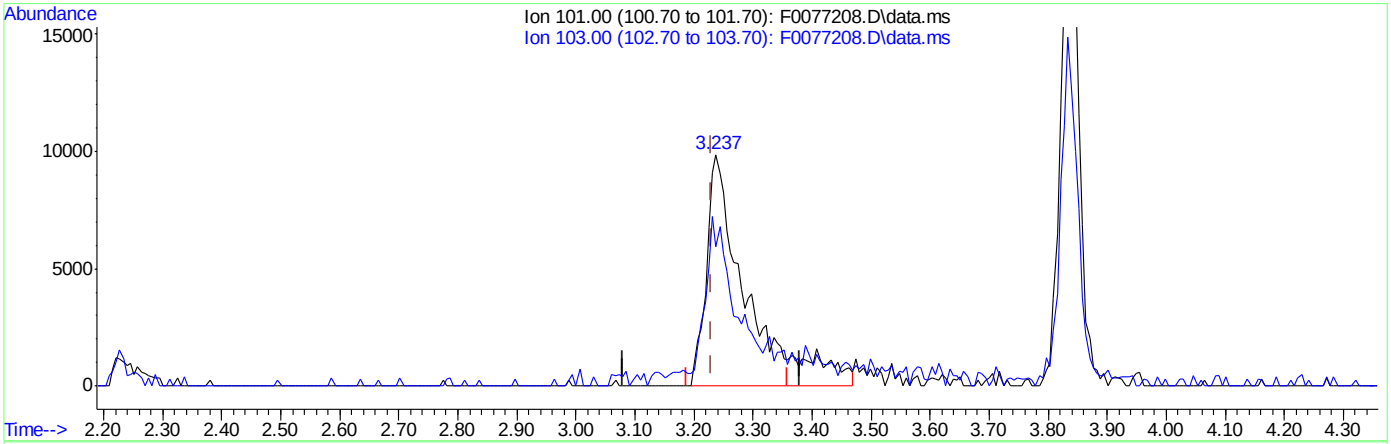
Ion	Exp%	Act%
101.00	100	100
103.00	66.50	54.37
0.00	0.00	0.00
0.00	0.00	0.00

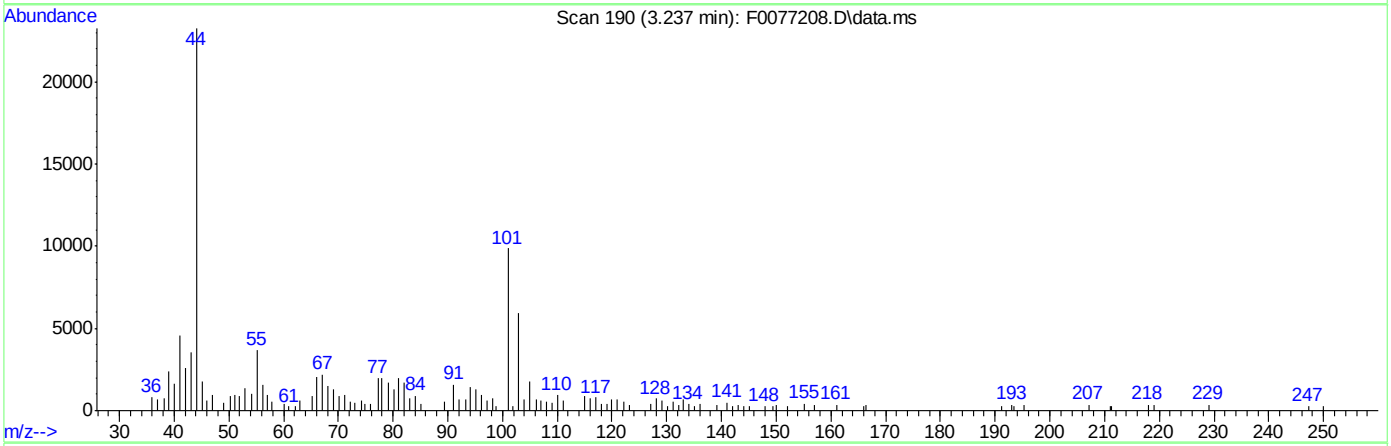
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077208.D
Acq On : 9 May 2016 8:45 am
Operator : ericp
Sample : IC2649-1 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 09 10:14:42 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration





TIC: F0077208.D\data.ms

(7) Trichlorofluoromethane ( )

3.237min (+0.006) 4.31ug/Kg m

response 46360

Ion	Exp%	Act%
101.00	100	100
103.00	66.50	59.94
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/12/16 09:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077209.D
Acq On : 9 May 2016 9:08 am
Operator : ericp
Sample : IC2649-2 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 09 10:13:27 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.082	96	1188370	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	787009	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	392079	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.715	65	150629	250.00	ug/Kg	0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	311392	48.69	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.38%			
44) 1,2-Dichloroethane-d4	6.808	65	332718	49.21	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 98.42%			
55) Toluene-d8	8.658	98	1068536	50.59	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.18%			
77) 4-Bromofluorobenzene	11.444	174	286695	49.85	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 99.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.215	85	107536	10.16	ug/Kg	98
3) Chloromethane	2.440	50	111369	9.89	ug/Kg	100
4) Vinyl Chloride	2.544	62	114468	9.54	ug/Kg	99
5) Bromomethane	2.933	94	59395	9.54	ug/Kg	96
6) Chloroethane	3.079	64	56213	12.45	ug/Kg	93
7) Trichlorofluoromethane	3.231	101	140174	12.57	ug/Kg	99
8) Ethyl Ether	3.535	59	54265	10.31	ug/Kg	81
9) 1,2-Dichlorotrifluoroe...	3.760	67	97653	9.52	ug/Kg	98
10) 1,1-Dichloroethene	3.785	61	152393	9.73	ug/Kg	91
11) Freon 113	3.815	101	95516	10.04	ug/Kg	97
12) Carbon Disulfide	3.839	76	285576	9.79	ug/Kg	90
13) Iodomethane	3.961	142	180561	10.67	ug/Kg	97
14) Allyl chloride	4.271	41	51309	8.18	ug/Kg	84
15) Methylene Chloride	4.405	49	112957	8.11	ug/Kg	79
16) Acetone	4.460	43	101239	45.28	ug/Kg	92
17) Methyl acetate	4.563	43	181477	43.65	ug/Kg	85
18) trans-1,2-Dichloroethene	4.563	61	99479	9.41	ug/Kg	87
19) Hexane	4.618	56	52070	8.38	ug/Kg#	87
20) Methyl Tert Butyl Ether	4.667	73	194667	9.82	ug/Kg	84
21) Acetonitrile	4.971	41	83687	99.06	ug/Kg	97
22) Di-isopropyl ether	5.050	45	240490	9.85	ug/Kg	92
23) Chloroprene	5.172	53	124297	9.60	ug/Kg	96
24) 1,1-Dichloroethane	5.202	63	130725	9.71	ug/Kg	97
25) Acrylonitrile	5.275	53	113805	47.27	ug/Kg	89
26) ETBE	5.433	59	221349	10.00	ug/Kg	96
27) Vinyl acetate	5.446	43	699415	49.50	ug/Kg	96
28) cis-1,2-Dichloroethene	5.768	96	84826	9.87	ug/Kg	96
29) 2,2-Dichloropropane	5.884	77	45984	9.48	ug/Kg	92
30) Bromochloromethane	5.987	128	41435	9.67	ug/Kg	92
31) Cyclohexane	5.993	56	151374	10.02	ug/Kg	96
32) Chloroform	6.048	83	129047	9.74	ug/Kg	94
33) Ethyl acetate	6.163	43	316506	49.40	ug/Kg	98
34) Tetrahydrofuran	6.249	42	21082	9.72	ug/Kg	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077209.D
Acq On : 9 May 2016 9:08 am
Operator : ericp
Sample : IC2649-2 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 09 10:13:27 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon Tetrachloride	6.206	117	82040	9.84	ug/Kg	97
37) 1,1,1-Trichloroethane	6.279	97	82109	9.81	ug/Kg	98
38) 2-Butanone	6.382	43	182769	47.10	ug/Kg	91
39) 1,1-Dichloropropene	6.401	75	101376	9.67	ug/Kg	96
40) Propionitrile	6.705	54	93725	101.03	ug/Kg#	70
41) Methacrylonitrile	6.711	41	400233	96.65	ug/Kg	98
42) Benzene	6.662	78	290429	10.13	ug/Kg	99
43) TAME	6.766	73	203797	9.89	ug/Kg	98
45) 1,2-Dichloroethane	6.875	62	89821	9.81	ug/Kg	94
46) Trichloroethene	7.252	95	76597	10.24	ug/Kg	90
47) Methylcyclohexane	7.252	83	136228	10.11	ug/Kg	94
48) Dibromomethane	7.690	93	42406	10.52	ug/Kg	86
49) 1,2-Dichloropropane	7.794	63	71715	9.90	ug/Kg	93
50) Bromodichloromethane	7.842	83	72962	9.94	ug/Kg	98
51) Methyl methacrylate	7.976	41	59089	10.18	ug/Kg	89
52) 2-Chloroethyl vinyl ether	8.390	63	204393	50.34	ug/Kg	95
53) cis-1,3-Dichloropropene	8.475	75	97922	10.25	ug/Kg	93
56) Toluene	8.706	91	277610	10.03	ug/Kg	99
57) 2-Nitropropane	8.944	41	56877	47.76	ug/Kg	98
58) 4-Methyl-2-pentanone	9.077	43	336986	49.45	ug/Kg	96
59) trans-1,3-Dichloropropene	9.120	75	76246	10.35	ug/Kg	81
60) Tetrachloroethene	9.102	166	62627	10.09	ug/Kg	92
61) Ethyl methacrylate	9.248	69	71610	10.14	ug/Kg	91
62) 1,1,2-Trichloroethane	9.284	83	46194	10.14	ug/Kg	92
63) Dibromochloromethane	9.473	129	34064	10.51	ug/Kg	93
64) 1,3-Dichloropropane	9.564	76	88391	10.07	ug/Kg	84
65) 1,2-Dibromoethane	9.728	107	52887	9.98	ug/Kg	95
66) 2-hexanone	9.905	43	249221	51.16	ug/Kg	94
67) 1-Chlorohexane	10.185	91	80793	9.93	ug/Kg	88
68) Ethylbenzene	10.245	91	287971	10.06	ug/Kg	98
69) Chlorobenzene	10.239	112	162488	10.27	ug/Kg	88
70) 1,1,1,2-Tetrachloroethane	10.294	131	46199	9.84	ug/Kg	95
71) m,p-Xylene	10.385	91	426719	20.20	ug/Kg	94
72) o-Xylene	10.823	91	216630	10.23	ug/Kg	92
73) Styrene	10.878	104	160431	10.33	ug/Kg	94
74) Bromoform	10.927	173	10300	11.46	ug/Kg	90
75) Isopropylbenzene	11.134	105	250038	10.18	ug/Kg	96
78) cis-1,4-Dichloro-2-butene	11.499	53	16876	9.88	ug/Kg#	80
79) n-Propylbenzene	11.560	91	318071	10.21	ug/Kg	60
80) Bromobenzene	11.560	156	65258	10.26	ug/Kg	96
81) 1,1,2,2-Tetrachloroethane	11.633	83	71215	10.44	ug/Kg	99
82) 1,3,5-Trimethylbenzene	11.748	105	228424	10.35	ug/Kg	84
83) 2-Chlorotoluene	11.736	91	212543	10.24	ug/Kg	93
84) trans-1,4-Dichloro-2-B...	11.815	53	18859	9.93	ug/Kg	84
85) 1,2,3-Trichloropropane	11.791	110	17004	10.49	ug/Kg	84
86) Cyclohexanone	11.852	55	17929	48.94	ug/Kg	97
87) 4-Chlorotoluene	11.906	91	188440	10.08	ug/Kg	92
88) tert-Butylbenzene	12.083	91	134624	10.27	ug/Kg	95
89) 1,2,4-Trimethylbenzene	12.156	105	216517	10.29	ug/Kg	96
90) Pentachloroethane	12.131	167	26379	10.09	ug/Kg	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077209.D
Acq On : 9 May 2016 9:08 am
Operator : ericp
Sample : IC2649-2 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 09 10:13:27 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.265	105	291803	10.23	ug/Kg	98
92) 4-Isopropyltoluene	12.405	119	229977	10.33	ug/Kg	94
93) 1,3-Dichlorobenzene	12.521	146	118069	10.18	ug/Kg	93
94) 1,4-Dichlorobenzene	12.612	146	123814	10.18	ug/Kg	96
95) n-Butylbenzene	12.849	92	138789	10.42	ug/Kg	86
96) Benzyl Chloride	12.861	126	18294	9.90	ug/Kg#	82
97) 1,2-Dichlorobenzene	13.056	146	114496	10.22	ug/Kg	96
98) 1,2-Dibromo-3-Chloropr...	13.847	75	10200	9.95	ug/Kg	81
99) Hexachlorobutadiene	14.419	225	42120	10.08	ug/Kg	94
100) 1,2,4-Trichlorobenzene	14.461	180	77623	10.19	ug/Kg	94
101) Naphthalene	14.741	128	185148	10.28	ug/Kg	100
102) 1,2,3-Trichlorobenzene	14.899	180	76970	10.14	ug/Kg	94
104) Ethanol	3.839	45	19633m	1064.04	ug/Kg	
105) Acrolein	4.144	56	60854	50.43	ug/Kg	85
106) Tert butyl alcohol	4.788	59	74128	102.38	ug/Kg	87
107) Isobutyl alcohol	6.869	42	48756	220.42	ug/Kg	88
108) Tert Amyl Alcohol	6.972	59	71179	110.14	ug/Kg	96
109) 1,4-Dioxane	8.086	88	16360	237.89	ug/Kg	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.11

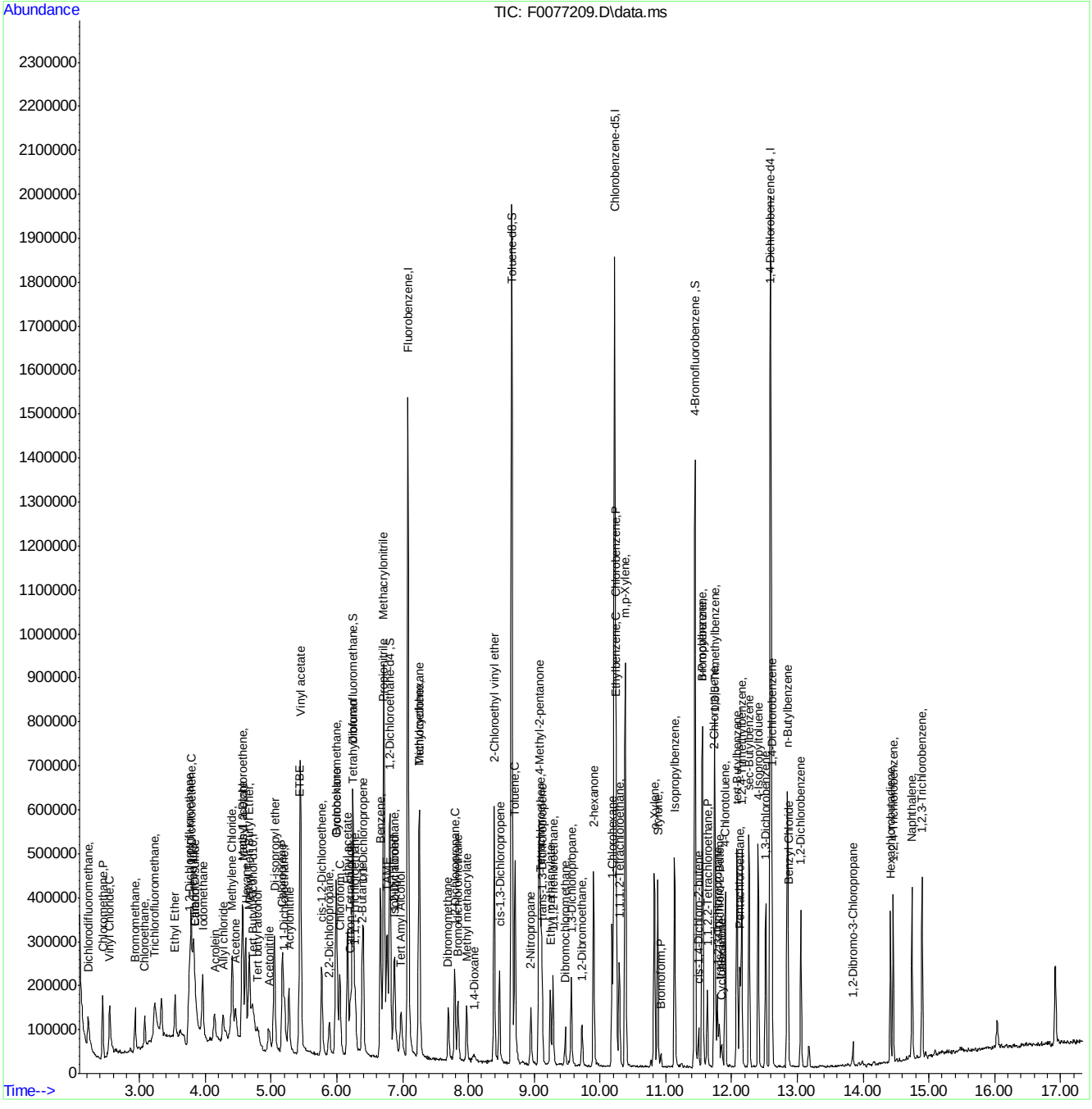
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077209.D
Acq On : 9 May 2016 9:08 am
Operator : ericp
Sample : IC2649-2 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 09 10:13:27 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

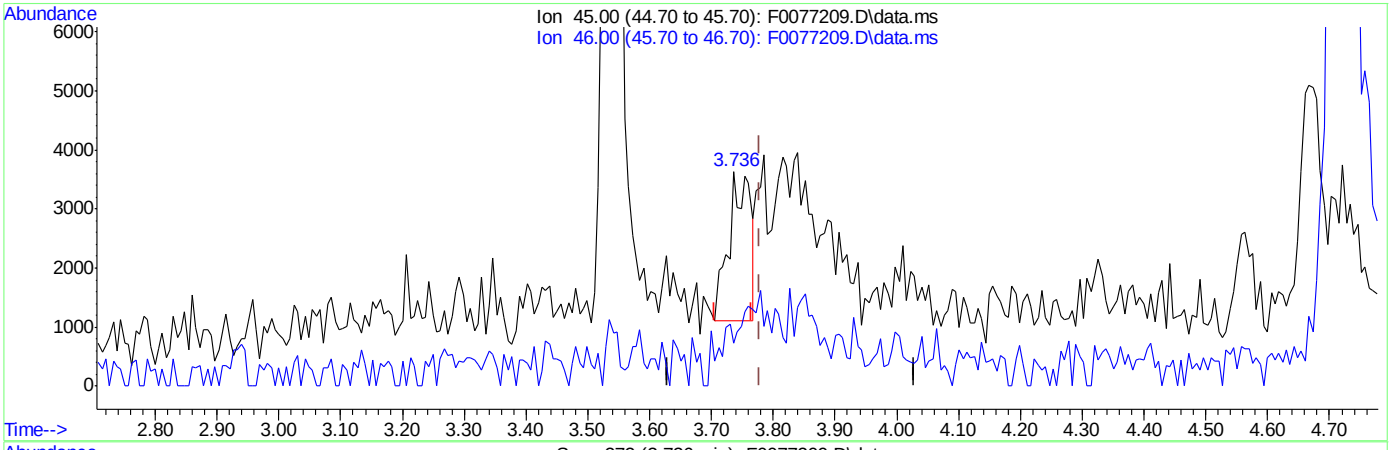
Sample Number:	VF2649-IC2649	**Method:**	SW846 8260B
Lab FileID:	F0077209.D	**Analyst approved:**	05/10/16 07:22 Eric Parrish
Injection Time:	05/09/16 09:08	**Supervisor approved:**	05/12/16 09:56 Juan Garcia

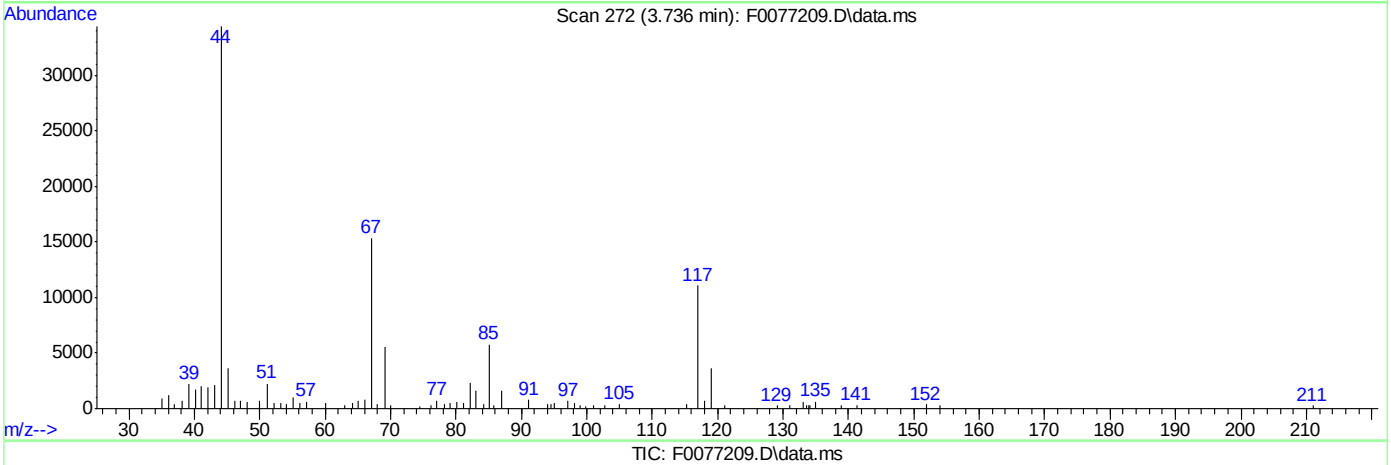
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.84	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077209.D
Acq On : 9 May 2016 9:08 am
Operator : ericp
Sample : IC2649-2 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 09 09:42:23 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration





TIC: F0077209.D\data.ms

(104) Ethanol

3.736min (-0.043) 333.15ug/Kg

response 6147

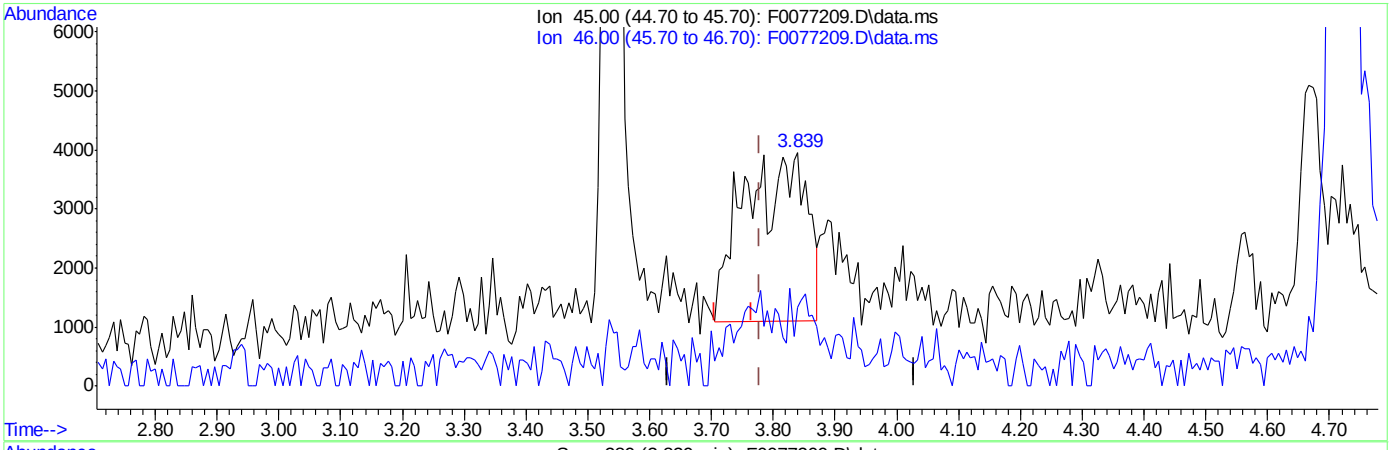
Ion	Exp%	Act%
45.00	100	100
46.00	35.00	11.77
0.00	0.00	0.00
0.00	0.00	0.00

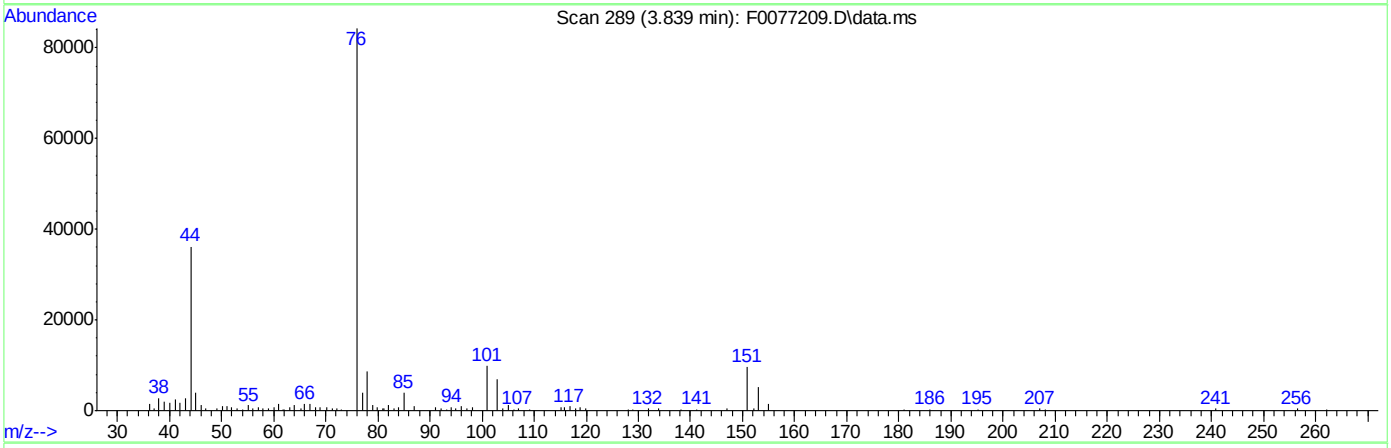
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077209.D
Acq On : 9 May 2016 9:08 am
Operator : ericp
Sample : IC2649-2 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 09 09:42:23 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration





(104) Ethanol

3.839min (+0.060) 1064.04ug/Kg m

response 19633

Ion	Exp%	Act%
45.00	100	100
46.00	35.00	33.51
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/12/16 09:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077210.D
Acq On : 9 May 2016 9:31 am
Operator : ericp
Sample : IC2649-3 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 09 10:12:36 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.082	96	1162029	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	880767	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	393004	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.697	65	159399	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	303199	48.48	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.96%			
44) 1,2-Dichloroethane-d4	6.802	65	326897	49.44	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 98.88%			
55) Toluene-d8	8.658	98	1151144	48.70	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.40%			
77) 4-Bromofluorobenzene	11.444	174	293937	50.99	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 101.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.221	85	211901	20.48	ug/Kg	99
3) Chloromethane	2.434	50	225029	20.44	ug/Kg	99
4) Vinyl Chloride	2.544	62	243306	20.74	ug/Kg	92
5) Bromomethane	2.927	94	130089	21.37	ug/Kg	96
6) Chloroethane	3.073	64	116657	26.42	ug/Kg	94
7) Trichlorofluoromethane	3.231	101	257334	23.61	ug/Kg	99
8) Ethyl Ether	3.535	59	107330	20.85	ug/Kg	82
9) 1,2-Dichlorotrifluoroe...	3.760	67	200253	19.97	ug/Kg	84
10) 1,1-Dichloroethene	3.785	61	302193	19.73	ug/Kg	87
11) Freon 113	3.815	101	204718	22.01	ug/Kg	93
12) Carbon Disulfide	3.839	76	597191	20.93	ug/Kg	90
13) Iodomethane	3.961	142	379580	22.95	ug/Kg	98
14) Allyl chloride	4.271	41	125246	20.42	ug/Kg	93
15) Methylene Chloride	4.405	49	259915	19.08	ug/Kg	97
16) Acetone	4.448	43	247491	113.19	ug/Kg	97
17) Methyl acetate	4.563	43	474398	116.68	ug/Kg	93
18) trans-1,2-Dichloroethene	4.569	61	223769	21.64	ug/Kg	94
19) Hexane	4.618	56	128508	21.14	ug/Kg#	83
20) Methyl Tert Butyl Ether	4.667	73	393819	20.33	ug/Kg	93
21) Acetonitrile	4.959	41	163338	197.73	ug/Kg	96
22) Di-isopropyl ether	5.044	45	483142	20.23	ug/Kg	90
23) Chloroprene	5.172	53	254578	20.11	ug/Kg	94
24) 1,1-Dichloroethane	5.202	63	271032	20.59	ug/Kg	100
25) Acrylonitrile	5.269	53	236268	100.36	ug/Kg	92
26) ETBE	5.427	59	434624	20.09	ug/Kg	94
27) Vinyl acetate	5.445	43	1435107	103.86	ug/Kg	95
28) cis-1,2-Dichloroethene	5.768	96	175782	20.92	ug/Kg	96
29) 2,2-Dichloropropane	5.883	77	98126	20.70	ug/Kg	98
30) Bromochloromethane	5.987	128	77624	18.53	ug/Kg	89
31) Cyclohexane	5.999	56	309758	20.97	ug/Kg	94
32) Chloroform	6.048	83	284181	21.93	ug/Kg	96
33) Ethyl acetate	6.157	43	652750	104.20	ug/Kg	100
34) Tetrahydrofuran	6.242	42	41433	19.54	ug/Kg	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077210.D
Acq On : 9 May 2016 9:31 am
Operator : ericp
Sample : IC2649-3 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 09 10:12:36 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.212	117	173142	21.24	ug/Kg	97
37)	1,1,1-Trichloroethane	6.279	97	166409	20.34	ug/Kg	100
38)	2-Butanone	6.376	43	376528	99.23	ug/Kg	97
39)	1,1-Dichloropropene	6.401	75	205804	20.08	ug/Kg	99
40)	Propionitrile	6.699	54	193934	213.80	ug/Kg	81
41)	Methacrylonitrile	6.711	41	834455	206.07	ug/Kg	94
42)	Benzene	6.662	78	616725	21.99	ug/Kg	98
43)	TAME	6.760	73	414013	20.55	ug/Kg	98
45)	1,2-Dichloroethane	6.875	62	181703	20.29	ug/Kg	93
46)	Trichloroethene	7.252	95	165264	22.59	ug/Kg	92
47)	Methylcyclohexane	7.252	83	293974	22.32	ug/Kg	95
48)	Dibromomethane	7.696	93	86865	22.04	ug/Kg	97
49)	1,2-Dichloropropane	7.788	63	158783	22.41	ug/Kg	91
50)	Bromodichloromethane	7.842	83	163785	22.82	ug/Kg	99
51)	Methyl methacrylate	7.970	41	106989	18.85	ug/Kg	88
52)	2-Chloroethyl vinyl ether	8.390	63	435206	109.61	ug/Kg	98
53)	cis-1,3-Dichloropropene	8.469	75	214478	22.97	ug/Kg	91
56)	Toluene	8.712	91	622583	20.10	ug/Kg	97
57)	2-Nitropropane	8.950	41	121006	90.79	ug/Kg	92
58)	4-Methyl-2-pentanone	9.071	43	706496	92.63	ug/Kg	97
59)	trans-1,3-Dichloropropene	9.120	75	166391	20.18	ug/Kg	96
60)	Tetrachloroethene	9.102	166	154053	22.19	ug/Kg	97
61)	Ethyl methacrylate	9.242	69	158377	20.03	ug/Kg	97
62)	1,1,2-Trichloroethane	9.284	83	105996	20.80	ug/Kg	92
63)	Dibromochloromethane	9.473	129	89916	24.79	ug/Kg	95
64)	1,3-Dichloropropane	9.564	76	207101	21.09	ug/Kg	97
65)	1,2-Dibromoethane	9.728	107	120069	20.24	ug/Kg	95
66)	2-hexanone	9.905	43	532478	97.66	ug/Kg	98
67)	1-Chlorohexane	10.185	91	197868	21.72	ug/Kg	97
68)	Ethylbenzene	10.245	91	644336	20.12	ug/Kg	100
69)	Chlorobenzene	10.239	112	372953	21.06	ug/Kg	93
70)	1,1,1,2-Tetrachloroethane	10.294	131	104699	19.93	ug/Kg	98
71)	m,p-Xylene	10.385	91	945758	40.01	ug/Kg	95
72)	o-Xylene	10.823	91	456952	19.28	ug/Kg	94
73)	Styrene	10.878	104	347226	19.97	ug/Kg	98
74)	Bromoform	10.927	173	27820	27.65	ug/Kg	94
75)	Isopropylbenzene	11.134	105	553457	20.14	ug/Kg	95
78)	cis-1,4-Dichloro-2-butene	11.499	53	38206	22.32	ug/Kg#	82
79)	n-Propylbenzene	11.559	91	680902	21.81	ug/Kg	60
80)	Bromobenzene	11.559	156	136600	21.43	ug/Kg	97
81)	1,1,2,2-Tetrachloroethane	11.632	83	147096	21.52	ug/Kg	98
82)	1,3,5-Trimethylbenzene	11.748	105	496303	22.44	ug/Kg	84
83)	2-Chlorotoluene	11.742	91	454411	21.84	ug/Kg	92
84)	trans-1,4-Dichloro-2-B...	11.815	53	39475	20.74	ug/Kg	92
85)	1,2,3-Trichloropropane	11.785	110	38038	23.41	ug/Kg	93
86)	Cyclohexanone	11.851	55	35020	95.38	ug/Kg	90
87)	4-Chlorotoluene	11.906	91	409163	21.84	ug/Kg	93
88)	tert-Butylbenzene	12.083	91	297113	22.60	ug/Kg	95
89)	1,2,4-Trimethylbenzene	12.156	105	469472	22.27	ug/Kg	94
90)	Pentachloroethane	12.131	167	57525	21.96	ug/Kg#	80

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077210.D
Acq On : 9 May 2016 9:31 am
Operator : ericp
Sample : IC2649-3 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 09 10:12:36 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration

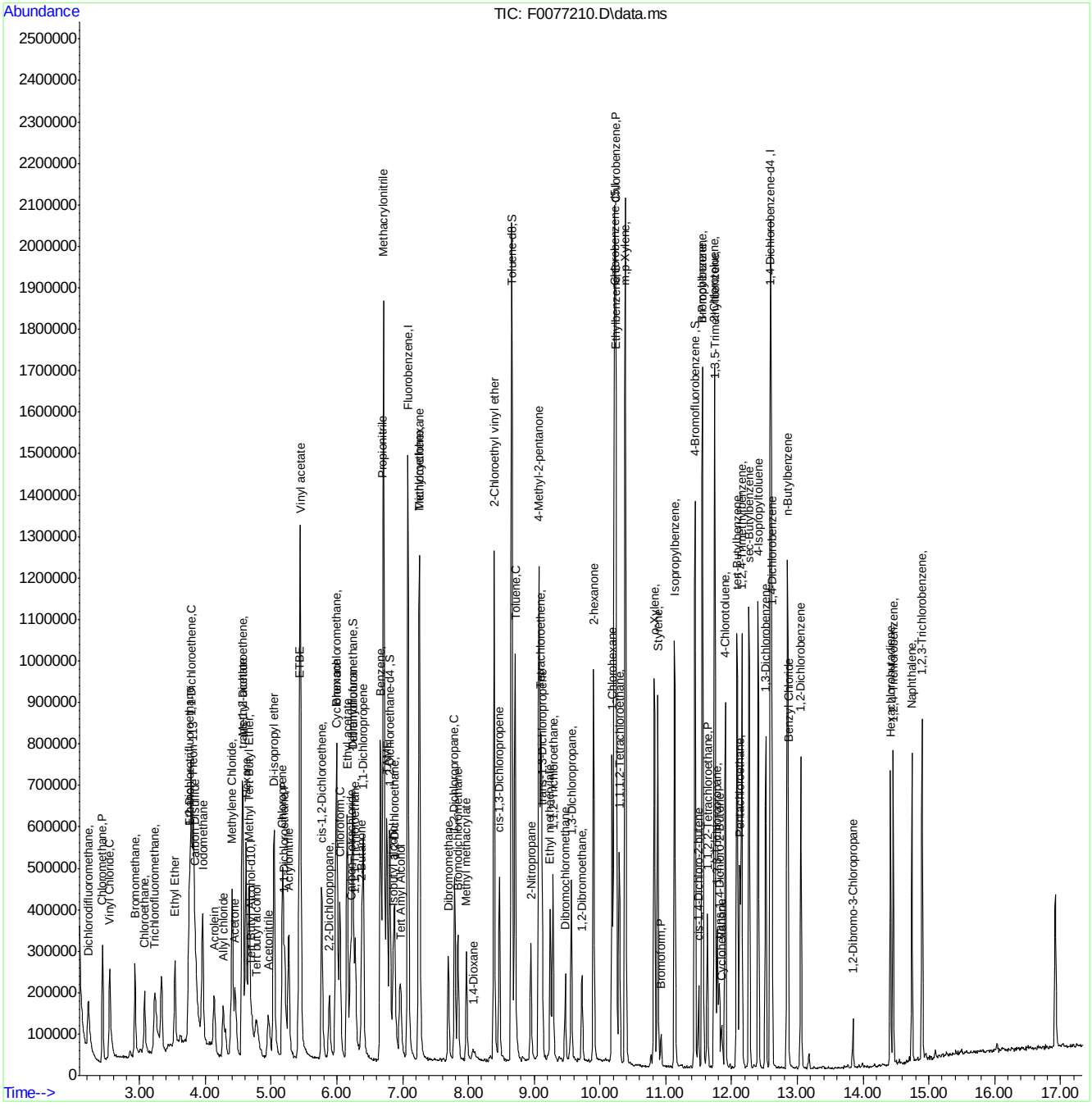
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.265	105	635914	22.24	ug/Kg	95
92)	4-Isopropyltoluene	12.405	119	495162	22.19	ug/Kg	98
93)	1,3-Dichlorobenzene	12.521	146	250697	21.56	ug/Kg	95
94)	1,4-Dichlorobenzene	12.612	146	256286	21.02	ug/Kg	96
95)	n-Butylbenzene	12.849	92	284850	21.33	ug/Kg	83
96)	Benzyl Chloride	12.861	126	40349	21.78	ug/Kg#	49
97)	1,2-Dichlorobenzene	13.056	146	239684	21.35	ug/Kg	96
98)	1,2-Dibromo-3-Chloropr...	13.847	75	22979	22.36	ug/Kg	86
99)	Hexachlorobutadiene	14.419	225	91172	21.76	ug/Kg	93
100)	1,2,4-Trichlorobenzene	14.461	180	154038	20.17	ug/Kg	95
101)	Naphthalene	14.741	128	377621	20.92	ug/Kg	98
102)	1,2,3-Trichlorobenzene	14.899	180	151145	19.87	ug/Kg	96
104)	Ethanol	3.760	45	39771m	2036.87	ug/Kg	
105)	Acrolein	4.131	56	124385	97.40	ug/Kg	94
106)	Tert butyl alcohol	4.782	59	143409	187.17	ug/Kg	79
107)	Isobutyl alcohol	6.857	42	90624	387.17	ug/Kg	88
108)	Tert Amyl Alcohol	6.966	59	138230	202.13	ug/Kg	93
109)	1,4-Dioxane	8.074	88	30779	422.93	ug/Kg#	65

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077210.D
Acq On : 9 May 2016 9:31 am
Operator : ericp
Sample : IC2649-3 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 09 10:12:36 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

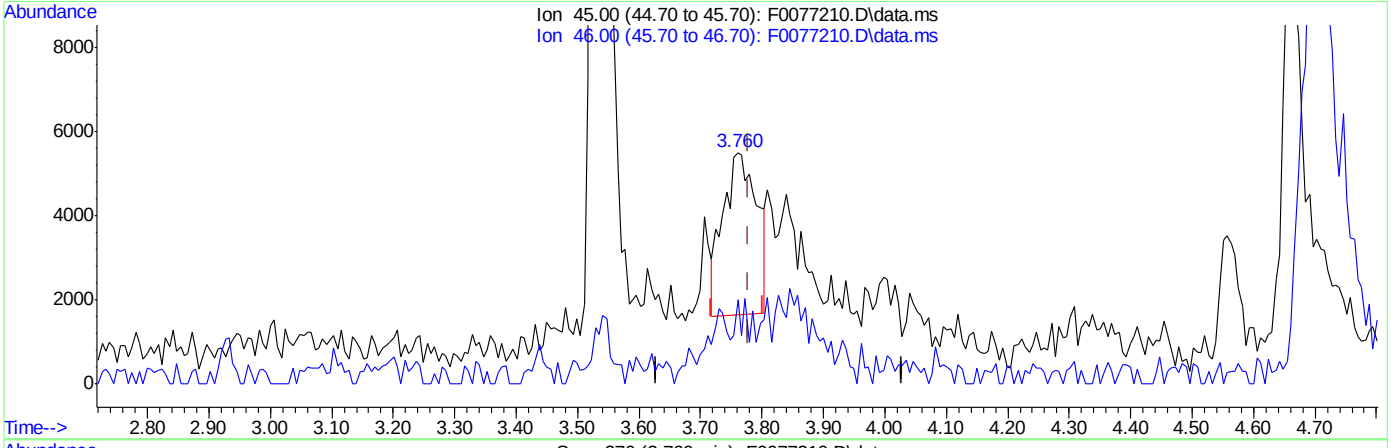
Sample Number:	VF2649-IC2649	**Method:**	SW846 8260B
Lab FileID:	F0077210.D	**Analyst approved:**	05/10/16 07:22 Eric Parrish
Injection Time:	05/09/16 09:31	**Supervisor approved:**	05/12/16 09:56 Juan Garcia

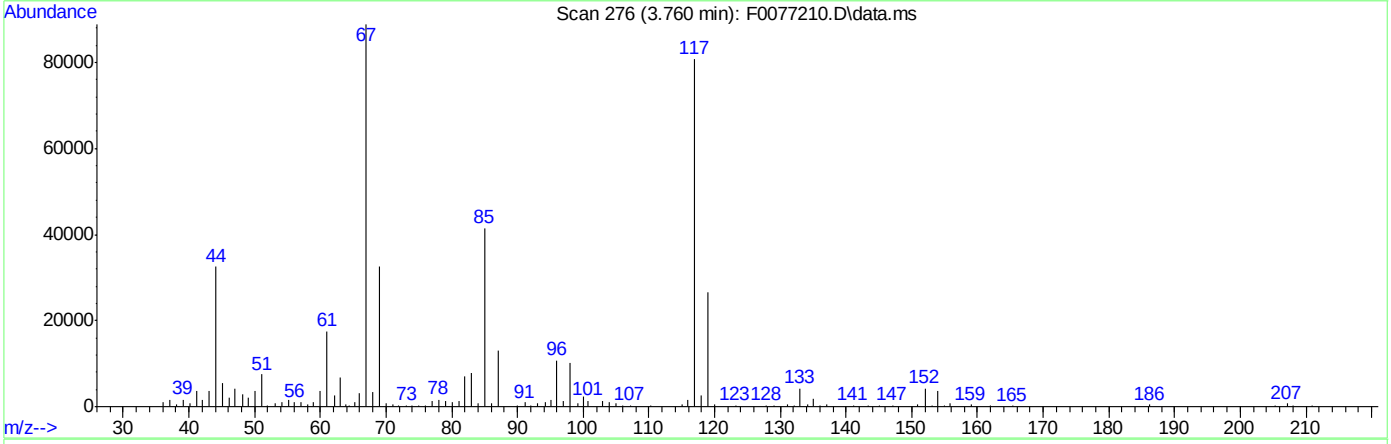
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.76	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077210.D
Acq On : 9 May 2016 9:31 am
Operator : ericp
Sample : IC2649-3 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 09 10:05:30 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration





TIC: F0077210.D\data.ms

(104) Ethanol

3.760min (-0.019) 754.60ug/Kg

response 14734

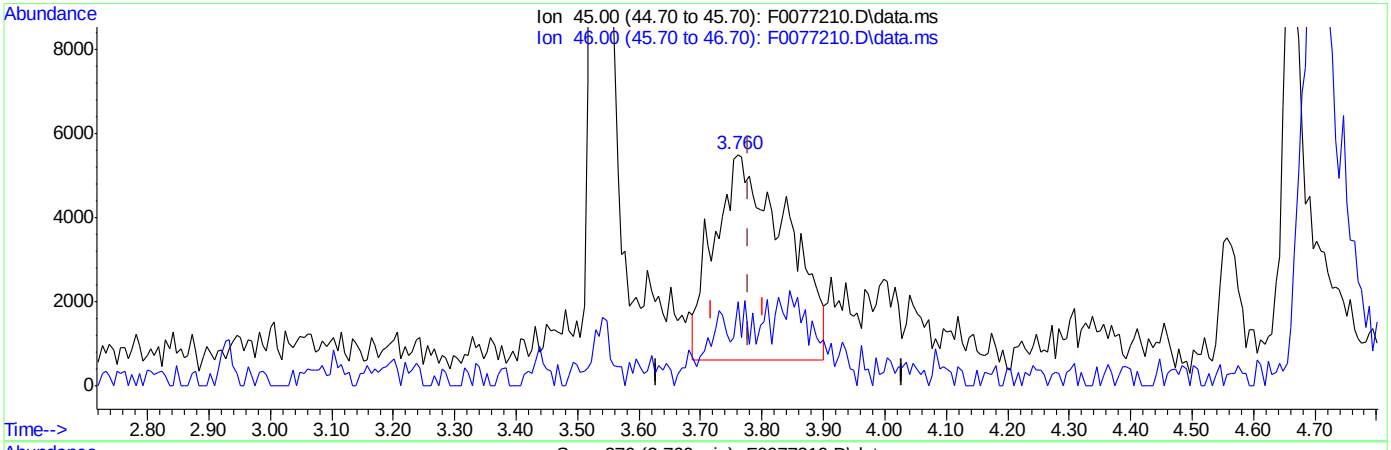
Ion	Exp%	Act%
45.00	100	100
46.00	35.00	41.69
0.00	0.00	0.00
0.00	0.00	0.00

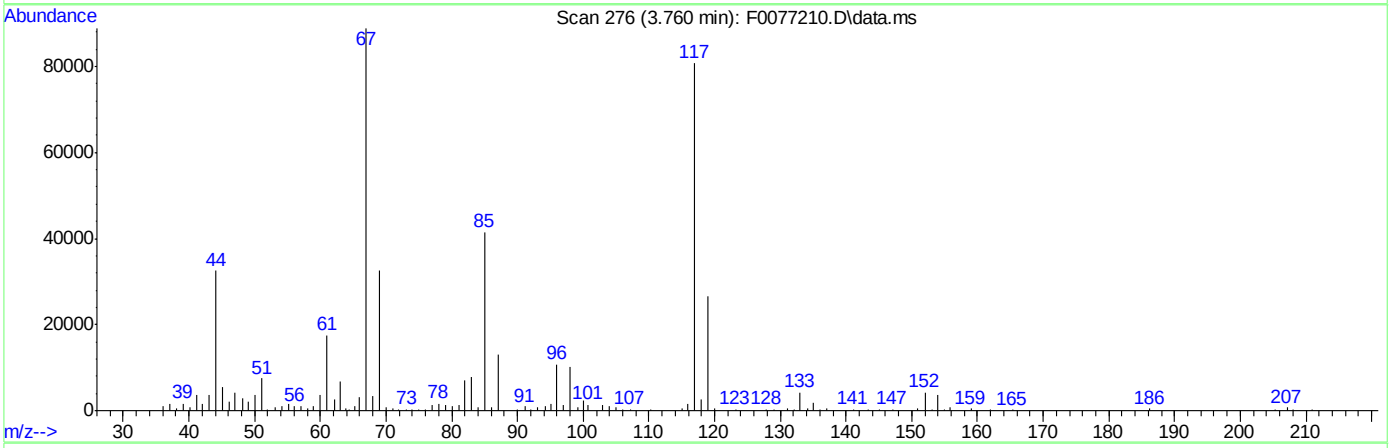
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077210.D
Acq On : 9 May 2016 9:31 am
Operator : ericp
Sample : IC2649-3 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 09 10:05:30 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 09:41:54 2016
Response via : Initial Calibration





TIC: F0077210.D\data.ms

(104) Ethanol

3.760min (-0.019) 2036.87ug/Kg m

response 39771

Ion	Exp%	Act%
45.00	100	100
46.00	35.00	36.32
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/12/16 09:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077211.D
Acq On : 9 May 2016 9:54 am
Operator : ericp
Sample : ICC2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 10:11:23 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:06:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.082	96	1164894	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	818600	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	422596	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.703	65	145270	250.00	ug/Kg	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	319980	51.56	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.12%			
44) 1,2-Dichloroethane-d4	6.808	65	316307	47.90	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 95.80%			
55) Toluene-d8	8.658	98	1157801	53.16	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 106.32%			
77) 4-Bromofluorobenzene	11.444	174	297849	47.74	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 95.48%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.215	85	491972	47.05	ug/Kg	99
3) Chloromethane	2.440	50	540516	48.61	ug/Kg	97
4) Vinyl Chloride	2.544	62	572973	48.12	ug/Kg	96
5) Bromomethane	2.933	94	312686	50.09	ug/Kg	99
6) Chloroethane	3.073	64	266630	36.55	ug/Kg	94
7) Trichlorofluoromethane	3.231	101	685293	46.05	ug/Kg	99
8) Ethyl Ether	3.541	59	255935	48.90	ug/Kg	84
9) 1,2-Dichlorotrifluoroe...	3.754	67	487342	48.51	ug/Kg	97
10) 1,1-Dichloroethene	3.785	61	756657	49.51	ug/Kg	93
11) Freon 113	3.809	101	431326	44.75	ug/Kg	94
12) Carbon Disulfide	3.839	76	1423837	49.01	ug/Kg	93
13) Iodomethane	3.955	142	715823	41.15	ug/Kg	96
14) Allyl chloride	4.271	41	285957	44.90	ug/Kg	87
15) Methylene Chloride	4.405	49	459258	34.18	ug/Kg	81
16) Acetone	4.454	43	448425	195.97	ug/Kg	95
17) Methyl acetate	4.563	43	1044691	176.64	ug/Kg	92
18) trans-1,2-Dichloroethene	4.569	61	539611	50.67	ug/Kg	97
19) Hexane	4.618	56	291143	46.89	ug/Kg#	91
20) Methyl Tert Butyl Ether	4.661	73	945678	48.42	ug/Kg	94
21) Acetonitrile	4.959	41	366168	443.86	ug/Kg	96
22) Di-isopropyl ether	5.044	45	1166266	48.52	ug/Kg	89
23) Chloroprene	5.172	53	617591	48.57	ug/Kg	93
24) 1,1-Dichloroethane	5.202	63	649827	48.76	ug/Kg	97
25) Acrylonitrile	5.269	53	530984	224.73	ug/Kg	95
26) ETBE	5.427	59	1050230	48.35	ug/Kg	95
27) Vinyl acetate	5.445	43	3235621	230.63	ug/Kg	94
28) cis-1,2-Dichloroethene	5.768	96	429268	50.19	ug/Kg	99
29) 2,2-Dichloropropane	5.890	77	221886	46.15	ug/Kg	95
30) Bromochloromethane	5.987	128	205173	50.09	ug/Kg	97
31) Cyclohexane	5.993	56	723027	48.05	ug/Kg	94
32) Chloroform	6.048	83	653832	48.77	ug/Kg	98
33) Ethyl acetate	6.157	43	1463325	229.80	ug/Kg	99
34) Tetrahydrofuran	6.242	42	84230	39.93	ug/Kg	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077211.D
Acq On : 9 May 2016 9:54 am
Operator : ericp
Sample : ICC2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 10:11:23 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:06:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon Tetrachloride	6.212	117	419564	50.31	ug/Kg	98
37) 1,1,1-Trichloroethane	6.279	97	402564	48.81	ug/Kg	99
38) 2-Butanone	6.376	43	817655	215.51	ug/Kg	98
39) 1,1-Dichloropropene	6.401	75	497337	48.34	ug/Kg	97
40) Propionitrile	6.699	54	430863	463.18	ug/Kg	89
41) Methacrylonitrile	6.711	41	1824350	444.91	ug/Kg	96
42) Benzene	6.662	78	1420303	48.89	ug/Kg	97
43) TAME	6.760	73	978610	48.02	ug/Kg	98
45) 1,2-Dichloroethane	6.875	62	425348	47.14	ug/Kg	93
46) Trichloroethene	7.252	95	391816	51.21	ug/Kg	96
47) Methylcyclohexane	7.252	83	677053	49.37	ug/Kg	93
48) Dibromomethane	7.696	93	212635	52.04	ug/Kg	98
49) 1,2-Dichloropropane	7.788	63	364305	49.31	ug/Kg	89
50) Bromodichloromethane	7.842	83	421252	55.93	ug/Kg	99
51) Methyl methacrylate	7.970	41	254498	45.60	ug/Kg	84
52) 2-Chloroethyl vinyl ether	8.390	63	1041668	253.59	ug/Kg	98
53) cis-1,3-Dichloropropene	8.475	75	527132	53.65	ug/Kg	94
56) Toluene	8.706	91	1476292	51.20	ug/Kg	99
57) 2-Nitropropane	8.950	41	292145	243.31	ug/Kg	93
58) 4-Methyl-2-pentanone	9.071	43	1575781	227.90	ug/Kg	98
59) trans-1,3-Dichloropropene	9.120	75	422095	54.91	ug/Kg	94
60) Tetrachloroethene	9.102	166	378136	56.53	ug/Kg	99
61) Ethyl methacrylate	9.248	69	381518	51.89	ug/Kg	95
62) 1,1,2-Trichloroethane	9.284	83	253761	52.87	ug/Kg	97
63) Dibromochloromethane	9.473	129	247416	67.97	ug/Kg	98
64) 1,3-Dichloropropane	9.564	76	463739	49.90	ug/Kg	97
65) 1,2-Dibromoethane	9.728	107	282752	51.08	ug/Kg	98
66) 2-hexanone	9.905	43	1172054	233.11	ug/Kg	97
67) 1-Chlorohexane	10.185	91	435211	49.97	ug/Kg	91
68) Ethylbenzene	10.245	91	1532323	51.38	ug/Kg	98
69) Chlorobenzene	10.239	112	872902	52.12	ug/Kg	92
70) 1,1,1,2-Tetrachloroethane	10.294	131	263944	54.12	ug/Kg	94
71) m,p-Xylene	10.385	91	2227192	101.36	ug/Kg	96
72) o-Xylene	10.823	91	1132574	52.03	ug/Kg	96
73) Styrene	10.878	104	877296	54.31	ug/Kg	97
74) Bromoform	10.927	173	92182	46.35	ug/Kg	96
75) Isopropylbenzene	11.134	105	1360178	53.14	ug/Kg	97
78) cis-1,4-Dichloro-2-butene	11.499	53	92115	48.18	ug/Kg#	84
79) n-Propylbenzene	11.559	91	1661891	48.06	ug/Kg	61
80) Bromobenzene	11.559	156	350550	49.95	ug/Kg	99
81) 1,1,2,2-Tetrachloroethane	11.632	83	349781	46.42	ug/Kg	100
82) 1,3,5-Trimethylbenzene	11.748	105	1218997	49.25	ug/Kg	85
83) 2-Chlorotoluene	11.736	91	1113914	48.31	ug/Kg	91
84) trans-1,4-Dichloro-2-B...	11.815	53	94091	45.41	ug/Kg	91
85) 1,2,3-Trichloropropane	11.785	110	87465	47.37	ug/Kg	97
86) Cyclohexanone	11.851	55	82322	211.77	ug/Kg	94
87) 4-Chlorotoluene	11.906	91	1012319	48.75	ug/Kg	93
88) tert-Butylbenzene	12.083	91	711424	48.24	ug/Kg	95
89) 1,2,4-Trimethylbenzene	12.156	105	1174581	49.93	ug/Kg	98
90) Pentachloroethane	12.131	167	162714	55.94	ug/Kg	98

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077211.D
Acq On : 9 May 2016 9:54 am
Operator : ericp
Sample : ICC2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 10:11:23 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:06:48 2016
Response via : Initial Calibration

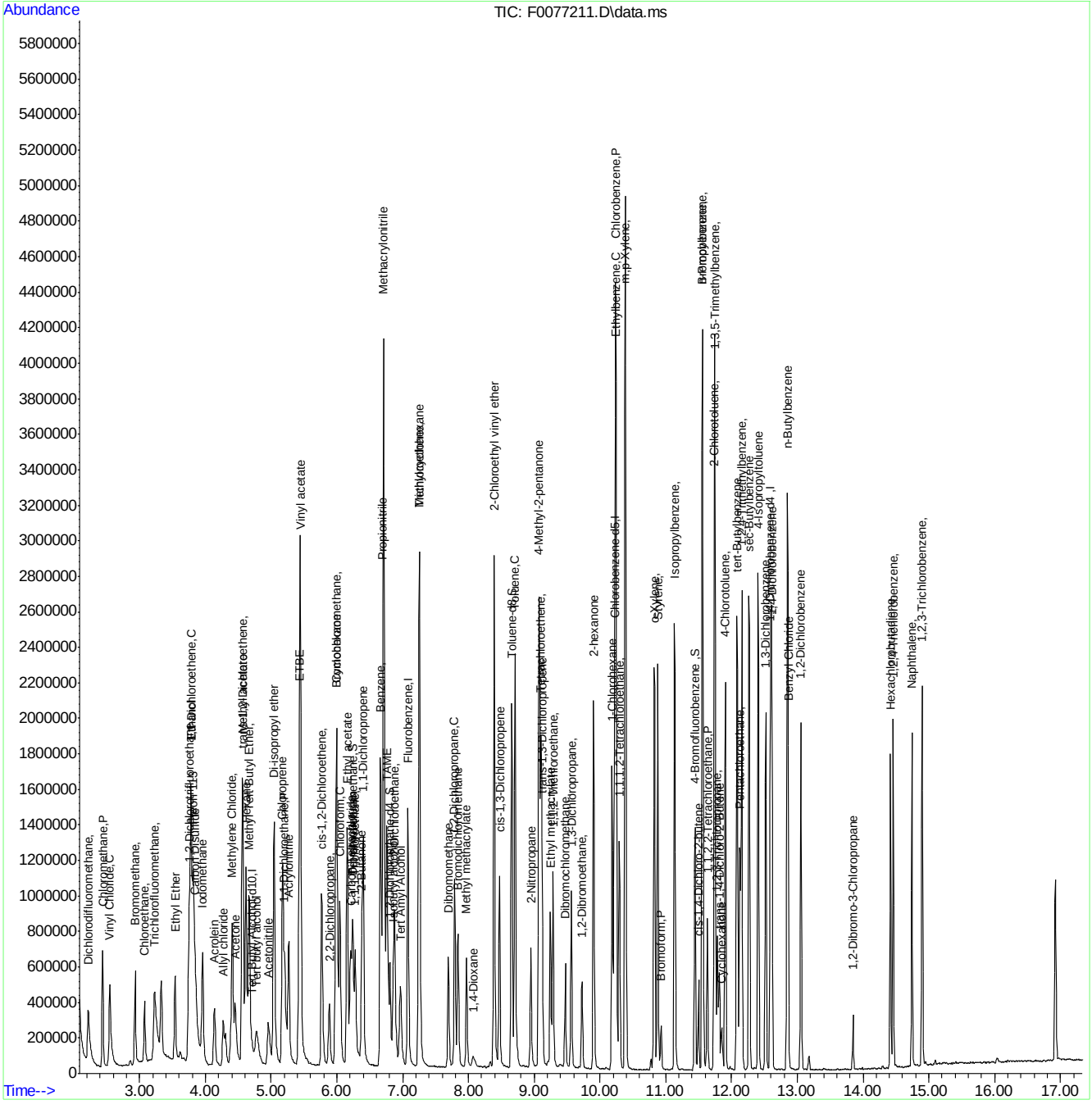
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.265	105	1555863	48.79	ug/Kg	98
92)	4-Isopropyltoluene	12.405	119	1274273	51.24	ug/Kg	96
93)	1,3-Dichlorobenzene	12.521	146	644649	50.25	ug/Kg	93
94)	1,4-Dichlorobenzene	12.612	146	660308	49.53	ug/Kg	98
95)	n-Butylbenzene	12.849	92	743312	50.64	ug/Kg	90
96)	Benzyl Chloride	12.861	126	113974	55.56	ug/Kg#	82
97)	1,2-Dichlorobenzene	13.056	146	621169	50.33	ug/Kg	97
98)	1,2-Dibromo-3-Chloropr...	13.847	75	53933	46.95	ug/Kg	82
99)	Hexachlorobutadiene	14.419	225	221377	47.74	ug/Kg	95
100)	1,2,4-Trichlorobenzene	14.461	180	423550	51.42	ug/Kg	97
101)	Naphthalene	14.741	128	959270	48.68	ug/Kg	100
102)	1,2,3-Trichlorobenzene	14.899	180	395958	48.51	ug/Kg	97
104)	Ethanol	3.779	45	75811m	3288.52	ug/Kg	
105)	Acrolein	4.138	56	291444	252.61	ug/Kg	89
106)	Tert butyl alcohol	4.776	59	324766	475.26	ug/Kg	87
107)	Isobutyl alcohol	6.857	42	194914	923.58	ug/Kg	92
108)	Tert Amyl Alcohol	6.966	59	323152	516.65	ug/Kg	94
109)	1,4-Dioxane	8.074	88	69634	1030.21	ug/Kg	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077211.D
Acq On : 9 May 2016 9:54 am
Operator : ericp
Sample : ICC2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 10:11:23 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:06:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

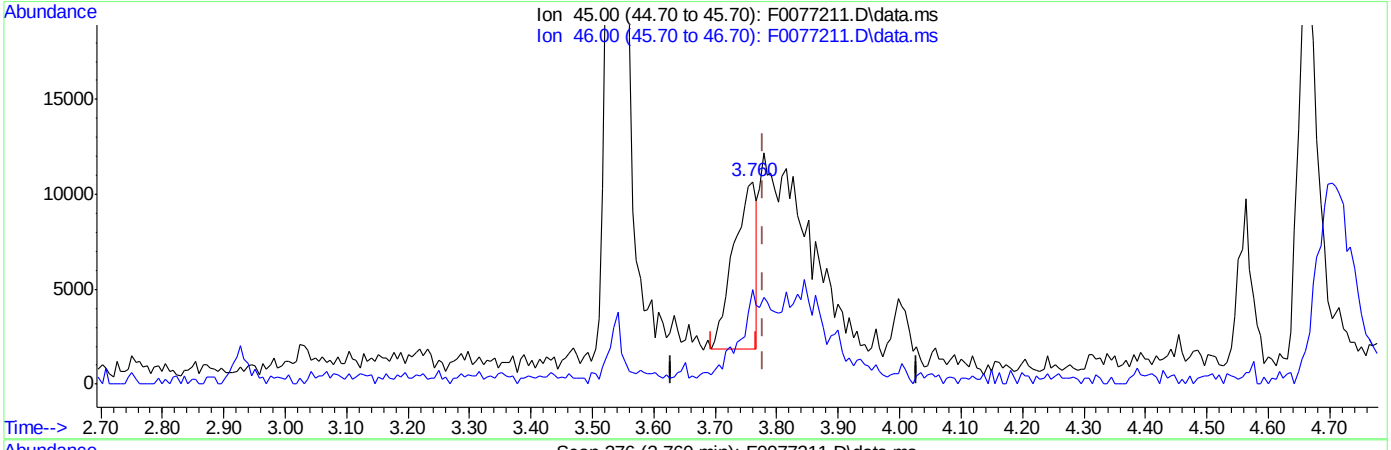
Sample Number:	VF2649-ICC2649	**Method:**	SW846 8260B
Lab FileID:	F0077211.D	**Analyst approved:**	05/10/16 07:22 Eric Parrish
Injection Time:	05/09/16 09:54	**Supervisor approved:**	05/12/16 09:56 Juan Garcia

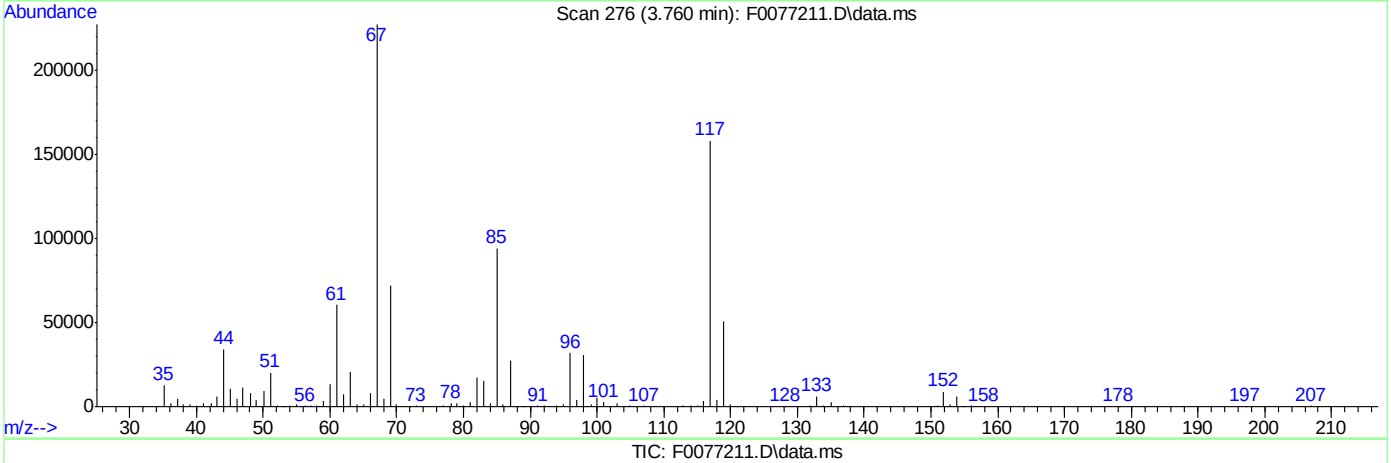
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.78	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077211.D
Acq On : 9 May 2016 9:54 am
Operator : ericp
Sample : ICC2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 10:09:59 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:06:48 2016
Response via : Initial Calibration





TIC: F0077211.D\data.ms

(104) Ethanol

3.760min (-0.019) 984.33ug/Kg

response 22692

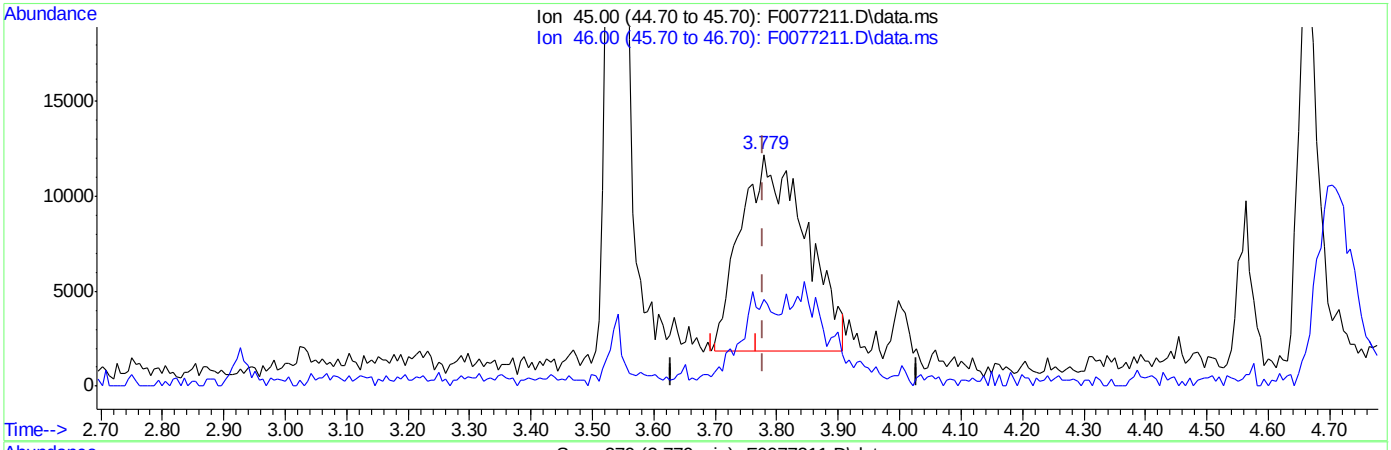
Ion	Exp%	Act%
45.00	100	100
46.00	35.00	51.40
0.00	0.00	0.00
0.00	0.00	0.00

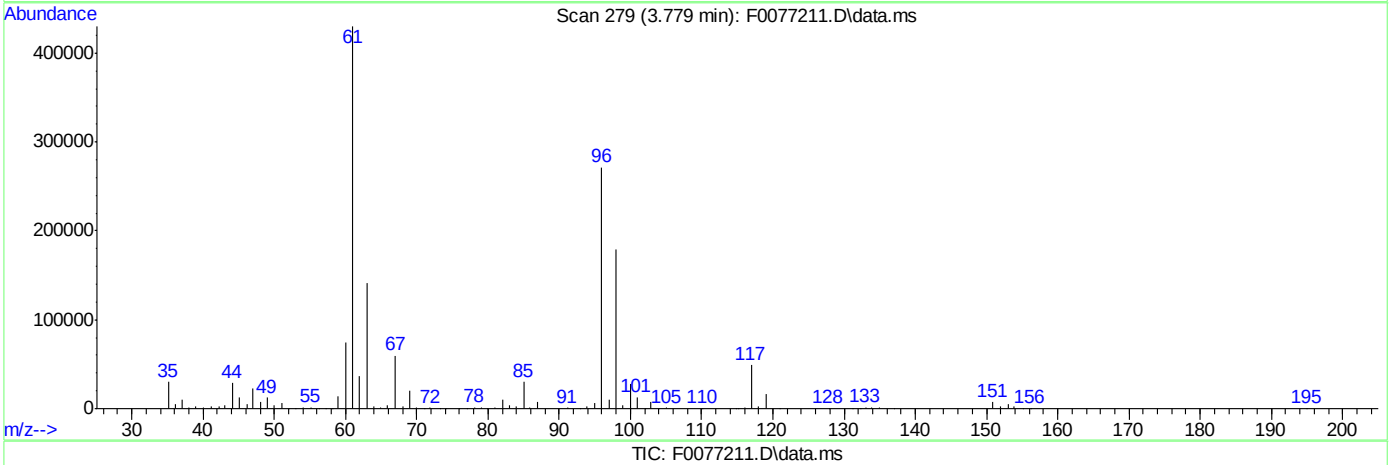
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077211.D
Acq On : 9 May 2016 9:54 am
Operator : ericp
Sample : ICC2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 09 10:09:59 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:06:48 2016
Response via : Initial Calibration





TIC: F0077211.D\data.ms

(104) Ethanol

3.779min (-0.000) 3288.52ug/Kg m

response 75811

Ion	Exp%	Act%
45.00	100	100
46.00	35.00	37.50
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/12/16 09:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077212.D
Acq On : 9 May 2016 10:17 am
Operator : ericp
Sample : IC2649-5 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 09 10:34:49 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:33:38 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.082	96	1120306	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	792907	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	431207	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.703	65	151905	250.00	ug/Kg	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	299990	49.90	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.80%			
44) 1,2-Dichloroethane-d4	6.802	65	306698	49.04	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 98.08%			
55) Toluene-d8	8.658	98	1122891	51.90	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 103.80%			
77) 4-Bromofluorobenzene	11.444	174	274314	44.73	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 89.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.215	85	935041	95.45	ug/Kg	99
3) Chloromethane	2.440	50	969756	92.94	ug/Kg	98
4) Vinyl Chloride	2.550	62	1083125	96.36	ug/Kg	96
5) Bromomethane	2.933	94	637073	104.80	ug/Kg	96
6) Chloroethane	3.073	64	424577	99.71	ug/Kg	95
7) Trichlorofluoromethane	3.225	101	1202870	99.66	ug/Kg	97
8) Ethyl Ether	3.535	59	485217	97.53	ug/Kg	87
9) 1,2-Dichlorotrifluoroe...	3.760	67	935662	98.05	ug/Kg	96
10) 1,1-Dichloroethene	3.785	61	1412580	97.05	ug/Kg	94
11) Freon 113	3.815	101	819680	92.52	ug/Kg	97
12) Carbon Disulfide	3.845	76	2738273	98.80	ug/Kg	96
13) Iodomethane	3.961	142	1406183	90.11	ug/Kg	95
14) Allyl chloride	4.271	41	622062	105.12	ug/Kg	92
15) Methylene Chloride	4.411	49	996054	100.89	ug/Kg	94
16) Acetone	4.448	43	1028389	503.47	ug/Kg	96
17) Methyl acetate	4.557	43	2062168	500.84	ug/Kg	94
18) trans-1,2-Dichloroethene	4.575	61	1010351	98.65	ug/Kg	94
19) Hexane	4.618	56	569462	97.48	ug/Kg	92
20) Methyl Tert Butyl Ether	4.661	73	1789778	96.82	ug/Kg	95
21) Acetonitrile	4.959	41	729424	956.27	ug/Kg	98
22) Di-isopropyl ether	5.038	45	2203797	96.81	ug/Kg	89
23) Chloroprene	5.172	53	1141449	95.16	ug/Kg	96
24) 1,1-Dichloroethane	5.202	63	1234618	97.53	ug/Kg	98
25) Acrylonitrile	5.263	53	1047071	477.94	ug/Kg	94
26) ETBE	5.427	59	2020325	98.00	ug/Kg	95
27) Vinyl acetate	5.439	43	5993976	461.69	ug/Kg	92
28) cis-1,2-Dichloroethene	5.768	96	808895	98.59	ug/Kg	99
29) 2,2-Dichloropropane	5.883	77	406486	91.53	ug/Kg	97
30) Bromochloromethane	5.987	128	377374	96.58	ug/Kg	98
31) Cyclohexane	5.999	56	1360497	95.91	ug/Kg	94
32) Chloroform	6.048	83	1285056	100.22	ug/Kg	98
33) Ethyl acetate	6.151	43	2805560	473.70	ug/Kg	99
34) Tetrahydrofuran	6.236	42	178607	94.08	ug/Kg	83

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077212.D
Acq On : 9 May 2016 10:17 am
Operator : ericp
Sample : IC2649-5 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 09 10:34:49 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:33:38 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon Tetrachloride	6.212	117	863786	105.93	ug/Kg	98
37) 1,1,1-Trichloroethane	6.279	97	776873	98.82	ug/Kg	98
38) 2-Butanone	6.376	43	1576829	457.17	ug/Kg	93
39) 1,1-Dichloropropene	6.401	75	913936	94.44	ug/Kg	98
40) Propionitrile	6.699	54	867859	990.59	ug/Kg	81
41) Methacrylonitrile	6.711	41	3583515	946.86	ug/Kg	95
42) Benzene	6.662	78	2739737	98.89	ug/Kg	96
43) TAME	6.760	73	1877571	97.38	ug/Kg	98
45) 1,2-Dichloroethane	6.875	62	813199	96.02	ug/Kg	93
46) Trichloroethene	7.252	95	720703	97.87	ug/Kg	94
47) Methylcyclohexane	7.252	83	1273663	97.49	ug/Kg	94
48) Dibromomethane	7.696	93	396394	99.89	ug/Kg	98
49) 1,2-Dichloropropane	7.788	63	695010	98.52	ug/Kg	90
50) Bromodichloromethane	7.842	83	797836	105.50	ug/Kg	99
51) Methyl methacrylate	7.970	41	492221	94.95	ug/Kg	88
52) 2-Chloroethyl vinyl ether	8.390	63	2028308	509.23	ug/Kg	98
53) cis-1,3-Dichloropropene	8.469	75	972801	100.89	ug/Kg	92
56) Toluene	8.712	91	2750474	98.31	ug/Kg	99
57) 2-Nitropropane	8.950	41	619796	528.78	ug/Kg	94
58) 4-Methyl-2-pentanone	9.071	43	3052176	472.44	ug/Kg	96
59) trans-1,3-Dichloropropene	9.120	75	801280	103.99	ug/Kg	94
60) Tetrachloroethene	9.102	166	722153	106.25	ug/Kg	99
61) Ethyl methacrylate	9.242	69	712931	99.34	ug/Kg	95
62) 1,1,2-Trichloroethane	9.284	83	469600	99.66	ug/Kg	91
63) Dibromochloromethane	9.473	129	512648	99.74	ug/Kg	97
64) 1,3-Dichloropropane	9.564	76	891615	99.28	ug/Kg	97
65) 1,2-Dibromoethane	9.728	107	542735	100.54	ug/Kg	99
66) 2-hexanone	9.905	43	2296049	483.52	ug/Kg	99
67) 1-Chlorohexane	10.185	91	805080	96.32	ug/Kg	93
68) Ethylbenzene	10.245	91	2819018	97.52	ug/Kg	100
69) Chlorobenzene	10.239	112	1601620	98.15	ug/Kg	91
70) 1,1,1,2-Tetrachloroethane	10.294	131	513887	105.20	ug/Kg	95
71) m,p-Xylene	10.385	91	4084174	192.93	ug/Kg	98
72) o-Xylene	10.823	91	2108625	99.20	ug/Kg	97
73) Styrene	10.878	104	1625913	101.38	ug/Kg	96
74) Bromoform	10.933	173	211816	99.71	ug/Kg	97
75) Isopropylbenzene	11.134	105	2531079	100.41	ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.499	53	186125	97.01	ug/Kg	88
79) n-Propylbenzene	11.559	91	3080393	90.30	ug/Kg	61
80) Bromobenzene	11.559	156	660366	93.70	ug/Kg	99
81) 1,1,2,2-Tetrachloroethane	11.632	83	672225	91.02	ug/Kg	100
82) 1,3,5-Trimethylbenzene	11.748	105	2327196	93.90	ug/Kg	86
83) 2-Chlorotoluene	11.742	91	2140215	93.28	ug/Kg	92
84) trans-1,4-Dichloro-2-B...	11.815	53	195773	95.77	ug/Kg	93
85) 1,2,3-Trichloropropane	11.785	110	171865	93.86	ug/Kg	95
86) Cyclohexanone	11.851	55	164231	442.81	ug/Kg	87
87) 4-Chlorotoluene	11.906	91	1892707	91.74	ug/Kg	94
88) tert-Butylbenzene	12.083	91	1413092	95.75	ug/Kg	97
89) 1,2,4-Trimethylbenzene	12.156	105	2252545	95.03	ug/Kg	99
90) Pentachloroethane	12.131	167	311218	101.46	ug/Kg	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077212.D
Acq On : 9 May 2016 10:17 am
Operator : ericp
Sample : IC2649-5 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 09 10:34:49 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:33:38 2016
Response via : Initial Calibration

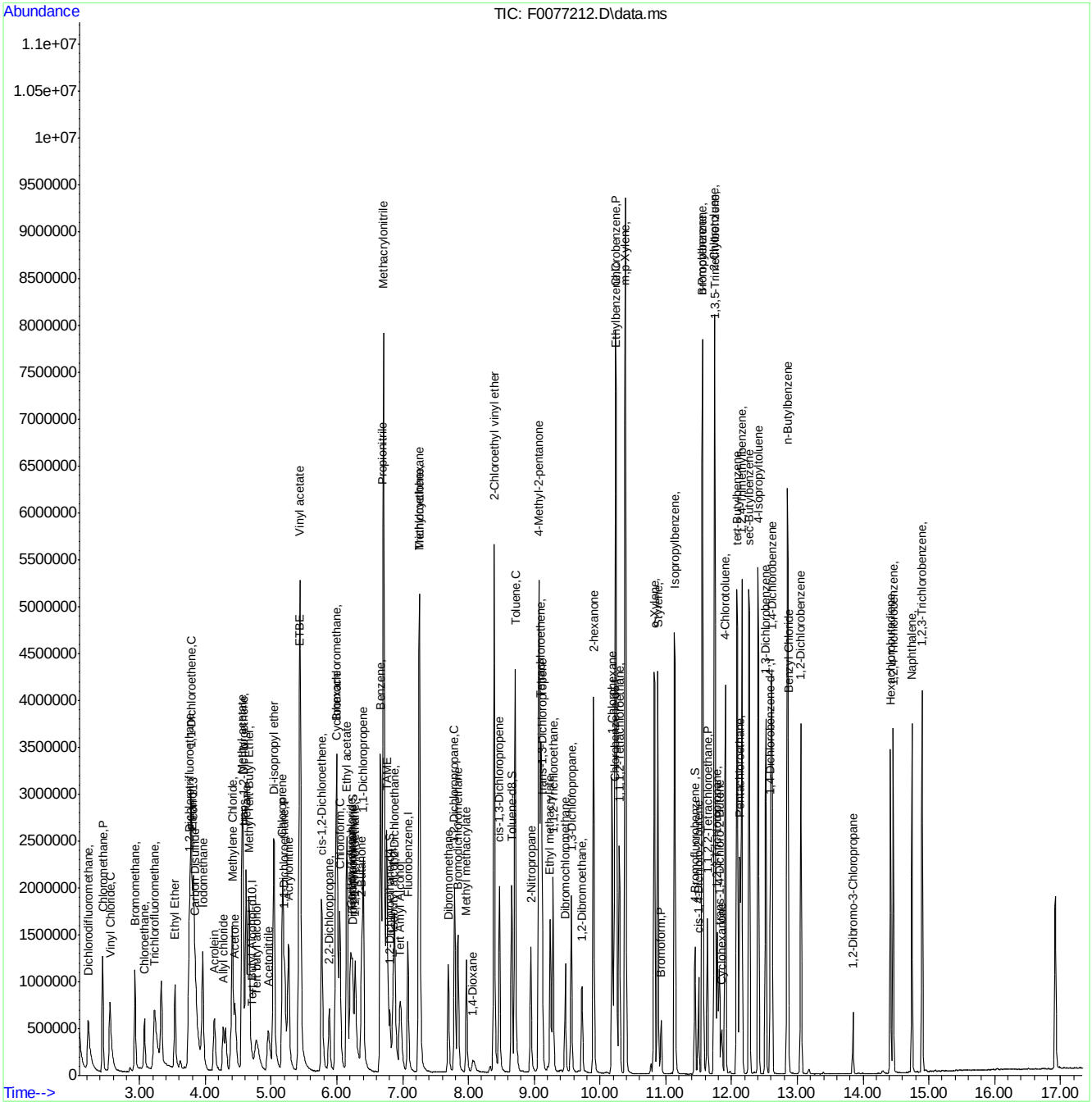
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.265	105	2988916	93.84	ug/Kg	99
92) 4-Isopropyltoluene	12.405	119	2408651	95.42	ug/Kg	98
93) 1,3-Dichlorobenzene	12.521	146	1212515	93.91	ug/Kg	94
94) 1,4-Dichlorobenzene	12.612	146	1240449	93.00	ug/Kg	97
95) n-Butylbenzene	12.849	92	1439031	96.59	ug/Kg	91
96) Benzyl Chloride	12.861	126	236244	107.70	ug/Kg#	85
97) 1,2-Dichlorobenzene	13.056	146	1189020	95.35	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.847	75	112013	97.62	ug/Kg	89
99) Hexachlorobutadiene	14.419	225	432748	93.91	ug/Kg	94
100) 1,2,4-Trichlorobenzene	14.461	180	782181	93.84	ug/Kg	98
101) Naphthalene	14.741	128	1895584	95.88	ug/Kg	98
102) 1,2,3-Trichlorobenzene	14.899	180	766254	94.07	ug/Kg	97
104) Ethanol	3.797	45	156254m	1981.27	ug/Kg	
105) Acrolein	4.137	56	544136	459.06	ug/Kg	90
106) Tert butyl alcohol	4.776	59	647238	932.59	ug/Kg	81
107) Isobutyl alcohol	6.857	42	414256	1930.39	ug/Kg	89
108) Tert Amyl Alcohol	6.960	59	643680	980.74	ug/Kg	95
109) 1,4-Dioxane	8.067	88	159676	2002.95	ug/Kg	81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077212.D
Acq On : 9 May 2016 10:17 am
Operator : ericp
Sample : IC2649-5 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 09 10:34:49 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:33:38 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

Sample Number:	VF2649-IC2649	**Method:**	SW846 8260B
Lab FileID:	F0077212.D	**Analyst approved:**	05/10/16 07:22 Eric Parrish
Injection Time:	05/09/16 10:17	**Supervisor approved:**	05/12/16 09:56 Juan Garcia

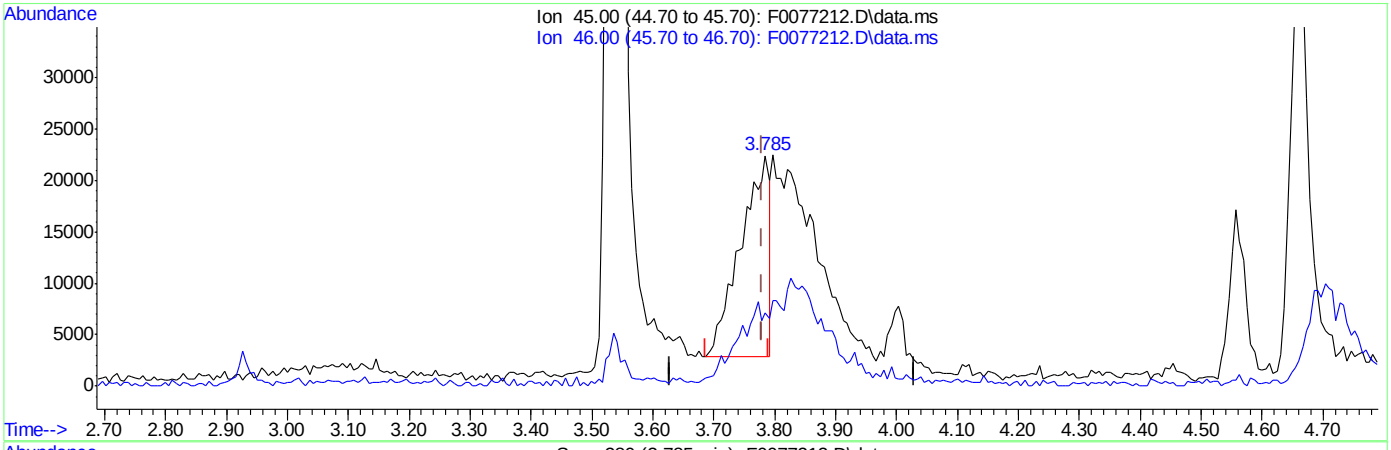
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.80	Split peak

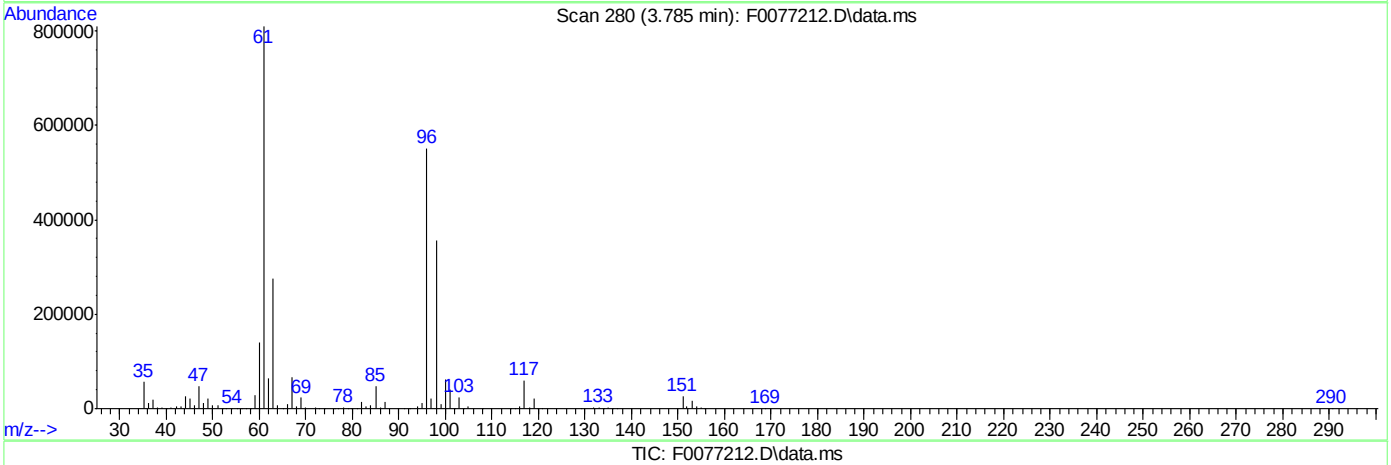
SGS ACCUTEST
FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077212.D
Acq On : 9 May 2016 10:17 am
Operator : ericp
Sample : IC2649-5 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 09 10:33:44 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:33:38 2016
Response via : Initial Calibration





TIC: F0077212.D\data.ms

(104) Ethanol

3.785min (+0.006) 807.72ug/Kg

response 63701

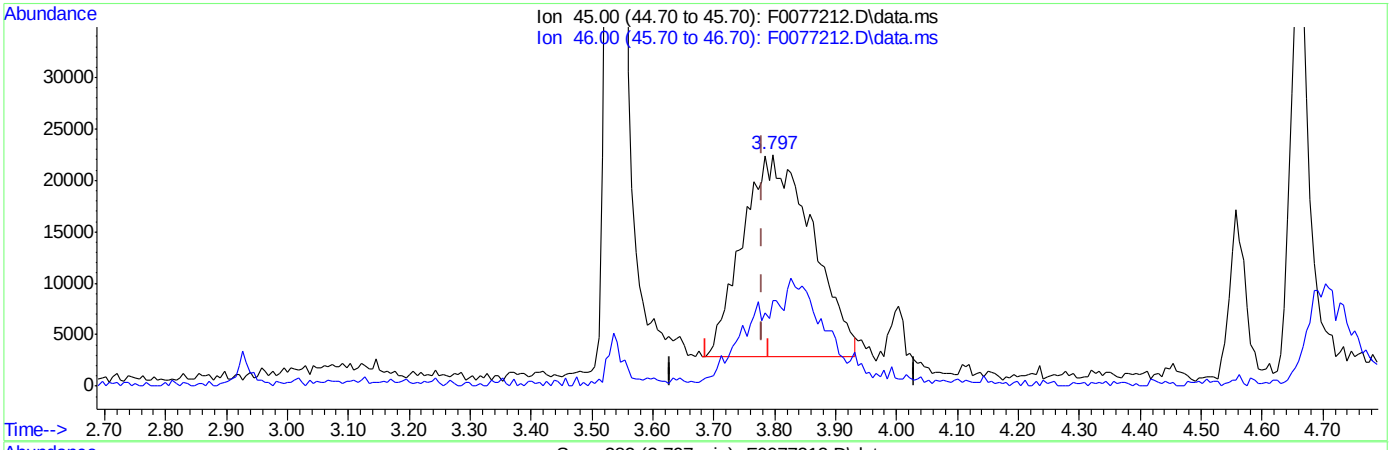
Ion	Exp%	Act%
45.00	100	100
46.00	35.00	32.26
0.00	0.00	0.00
0.00	0.00	0.00

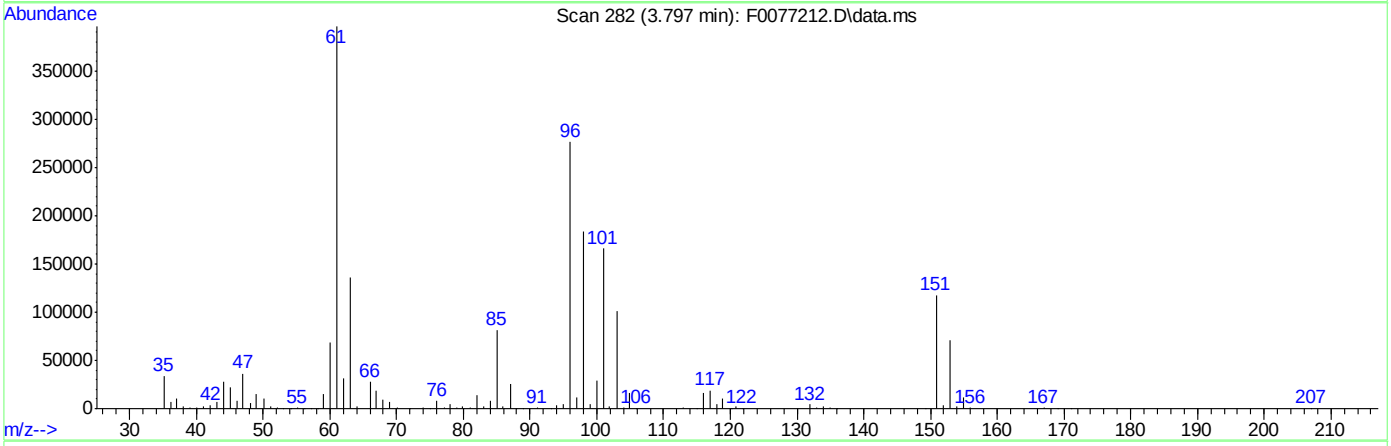
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077212.D
Acq On : 9 May 2016 10:17 am
Operator : ericp
Sample : IC2649-5 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 09 10:33:44 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:33:38 2016
Response via : Initial Calibration





(104) Ethanol

3.797min (+0.018) 1981.27ug/Kg m

response 156254

Ion	Exp%	Act%
45.00	100	100
46.00	35.00	37.12
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/12/16 09:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077213.D
Acq On : 9 May 2016 10:40 am
Operator : ericp
Sample : IC2649-6 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 09 10:57:58 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:56:46 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.082	96	1116640	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	772660	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	440587	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.715	65	136327	250.00	ug/Kg	0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	293192	49.10	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.20%			
44) 1,2-Dichloroethane-d4	6.808	65	292575	47.42	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 94.84%			
55) Toluene-d8	8.658	98	1022268	48.74	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.48%			
77) 4-Bromofluorobenzene	11.444	174	285353	46.22	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 92.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.215	85	1397060	144.19	ug/Kg	99
3) Chloromethane	2.434	50	1539029	148.31	ug/Kg	100
4) Vinyl Chloride	2.550	62	1694168	151.01	ug/Kg	96
5) Bromomethane	2.927	94	951340	155.80	ug/Kg	97
6) Chloroethane	3.073	64	569304	151.90	ug/Kg	93
7) Trichlorofluoromethane	3.225	101	1901731	151.14	ug/Kg	100
8) Ethyl Ether	3.535	59	744010	150.03	ug/Kg	88
9) 1,2-Dichlorotrifluoroe...	3.760	67	1389093	146.68	ug/Kg	97
10) 1,1-Dichloroethene	3.785	61	2170720	149.69	ug/Kg	95
11) Freon 113	3.815	101	1220226	140.02	ug/Kg	96
12) Carbon Disulfide	3.845	76	4127391	149.50	ug/Kg	99
13) Iodomethane	3.961	142	2623168	165.23	ug/Kg	100
14) Allyl chloride	4.302	41	795090	137.12	ug/Kg	93
15) Methylene Chloride	4.405	49	1230112	146.57	ug/Kg	78
16) Acetone	4.454	43	1502156	745.61	ug/Kg	95
17) Methyl acetate	4.557	43	3051499	749.33	ug/Kg	92
18) trans-1,2-Dichloroethene	4.569	61	1503040	147.69	ug/Kg	94
19) Hexane	4.618	56	830722	143.84	ug/Kg	91
20) Methyl Tert Butyl Ether	4.661	73	2633725	144.07	ug/Kg	93
21) Acetonitrile	4.959	41	1091487	1445.98	ug/Kg	98
22) Di-isopropyl ether	5.044	45	3168538	141.28	ug/Kg	89
23) Chloroprene	5.172	53	1673460	141.54	ug/Kg	96
24) 1,1-Dichloroethane	5.202	63	1796806	143.61	ug/Kg	99
25) Acrylonitrile	5.269	53	1568501	723.40	ug/Kg	93
26) ETBE	5.427	59	2952850	144.72	ug/Kg	94
27) Vinyl acetate	5.445	43	8145346	646.79	ug/Kg	88
28) cis-1,2-Dichloroethene	5.768	96	1174979	144.69	ug/Kg	99
29) 2,2-Dichloropropane	5.883	77	563752	130.65	ug/Kg	99
30) Bromochloromethane	5.987	128	551461	142.93	ug/Kg	96
31) Cyclohexane	5.993	56	2009000	143.35	ug/Kg	95
32) Chloroform	6.048	83	1876484	147.35	ug/Kg	98
33) Ethyl acetate	6.157	43	4067321	698.47	ug/Kg	99
34) Tetrahydrofuran	6.242	42	262601	140.53	ug/Kg	87

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077213.D
Acq On : 9 May 2016 10:40 am
Operator : ericp
Sample : IC2649-6 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 09 10:57:58 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:56:46 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.206	117	1262244	154.40	ug/Kg	96
37)	1,1,1-Trichloroethane	6.279	97	1079533	139.67	ug/Kg	99
38)	2-Butanone	6.376	43	2360286	696.38	ug/Kg	95
39)	1,1-Dichloropropene	6.401	75	1348450	141.40	ug/Kg	98
40)	Propionitrile	6.699	54	1285199	1476.40	ug/Kg	94
41)	Methacrylonitrile	6.711	41	5163904	1389.16	ug/Kg	92
42)	Benzene	6.662	78	3926947	143.45	ug/Kg	95
43)	TAME	6.759	73	2720463	142.90	ug/Kg	98
45)	1,2-Dichloroethane	6.875	62	1164026	139.78	ug/Kg	94
46)	Trichloroethene	7.252	95	1055493	144.80	ug/Kg	94
47)	Methylcyclohexane	7.252	83	1891543	146.03	ug/Kg	90
48)	Dibromomethane	7.696	93	580468	147.28	ug/Kg	98
49)	1,2-Dichloropropane	7.788	63	992938	142.61	ug/Kg	89
50)	Bromodichloromethane	7.842	83	1211097	158.79	ug/Kg	100
51)	Methyl methacrylate	7.970	41	726186	142.04	ug/Kg	86
52)	2-Chloroethyl vinyl ether	8.390	63	2917129	737.28	ug/Kg	99
53)	cis-1,3-Dichloropropene	8.469	75	1376813	144.33	ug/Kg	90
56)	Toluene	8.706	91	3691833	137.64	ug/Kg	99
57)	2-Nitropropane	8.950	41	955787	820.97	ug/Kg	94
58)	4-Methyl-2-pentanone	9.071	43	4356494	701.04	ug/Kg	96
59)	trans-1,3-Dichloropropene	9.120	75	1121278	149.45	ug/Kg	94
60)	Tetrachloroethene	9.102	166	931433	142.11	ug/Kg	99
61)	Ethyl methacrylate	9.248	69	997325	143.79	ug/Kg	95
62)	1,1,2-Trichloroethane	9.284	83	648148	142.56	ug/Kg	95
63)	Dibromochloromethane	9.473	129	719756	148.52	ug/Kg	97
64)	1,3-Dichloropropane	9.564	76	1203159	139.42	ug/Kg	95
65)	1,2-Dibromoethane	9.728	107	733721	141.13	ug/Kg	98
66)	2-hexanone	9.905	43	3262630	712.18	ug/Kg	98
67)	1-Chlorohexane	10.185	91	1139068	141.45	ug/Kg	94
68)	Ethylbenzene	10.245	91	4002862	143.36	ug/Kg	96
69)	Chlorobenzene	10.239	112	2331654	147.18	ug/Kg	92
70)	1,1,1,2-Tetrachloroethane	10.294	131	773250	160.23	ug/Kg	97
71)	m,p-Xylene	10.385	91	5777296	283.20	ug/Kg	94
72)	o-Xylene	10.823	91	3127803	150.84	ug/Kg	99
73)	Styrene	10.878	104	2414773	153.74	ug/Kg	95
74)	Bromoform	10.933	173	378126	150.09	ug/Kg	98
75)	Isopropylbenzene	11.134	105	3819525	154.55	ug/Kg	100
78)	cis-1,4-Dichloro-2-butene	11.499	53	293675	149.84	ug/Kg	88
79)	n-Propylbenzene	11.559	91	4475861	131.56	ug/Kg	65
80)	Bromobenzene	11.559	156	1038198	145.11	ug/Kg	99
81)	1,1,2,2-Tetrachloroethane	11.632	83	1065961	142.64	ug/Kg	97
82)	1,3,5-Trimethylbenzene	11.748	105	3500296	140.06	ug/Kg	87
83)	2-Chlorotoluene	11.742	91	3170978	137.52	ug/Kg	94
84)	trans-1,4-Dichloro-2-B...	11.815	53	291587	141.24	ug/Kg	90
85)	1,2,3-Trichloropropane	11.785	110	268235	144.43	ug/Kg	96
86)	Cyclohexanone	11.851	55	242105	655.05	ug/Kg	92
87)	4-Chlorotoluene	11.906	91	2775793	134.42	ug/Kg	93
88)	tert-Butylbenzene	12.083	91	2113890	141.73	ug/Kg	97
89)	1,2,4-Trimethylbenzene	12.156	105	3304645	138.54	ug/Kg	99
90)	Pentachloroethane	12.131	167	505984	159.42	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077213.D
Acq On : 9 May 2016 10:40 am
Operator : ericp
Sample : IC2649-6 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 09 10:57:58 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:56:46 2016
Response via : Initial Calibration

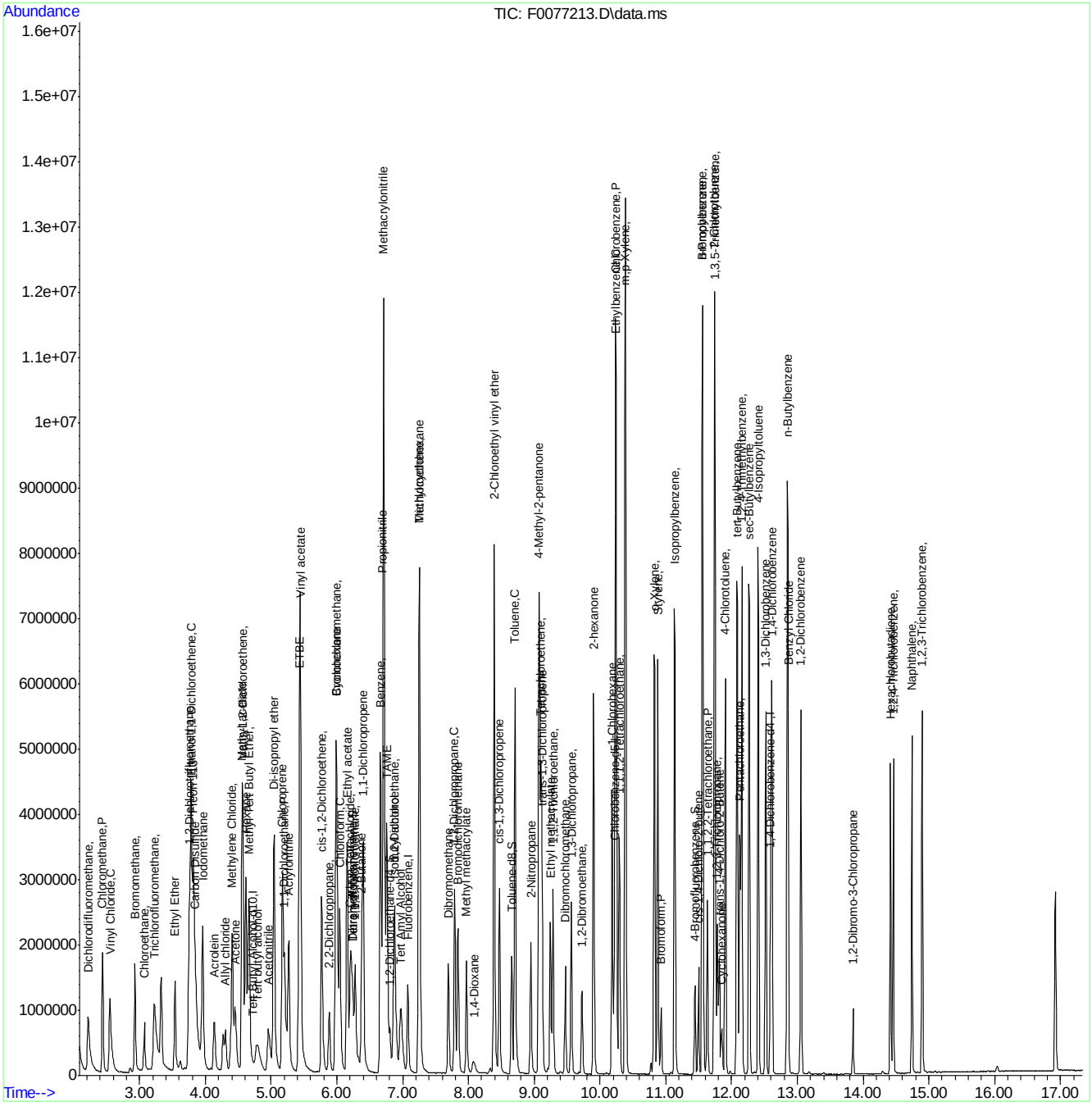
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.265	105	4338129	135.82	ug/Kg	100
92) 4-Isopropyltoluene	12.405	119	3575606	140.40	ug/Kg	99
93) 1,3-Dichlorobenzene	12.521	146	1763980	136.18	ug/Kg	94
94) 1,4-Dichlorobenzene	12.612	146	1811350	135.48	ug/Kg	97
95) n-Butylbenzene	12.849	92	2093317	139.45	ug/Kg	95
96) Benzyl Chloride	12.861	126	389245	169.22	ug/Kg	96
97) 1,2-Dichlorobenzene	13.056	146	1773510	140.89	ug/Kg	97
98) 1,2-Dibromo-3-Chloropr...	13.847	75	177394	151.09	ug/Kg	86
99) Hexachlorobutadiene	14.419	225	585986	128.09	ug/Kg	94
100) 1,2,4-Trichlorobenzene	14.461	180	1027860	124.75	ug/Kg	97
101) Naphthalene	14.741	128	2664295	134.60	ug/Kg	98
102) 1,2,3-Trichlorobenzene	14.899	180	1025552	127.00	ug/Kg	97
104) Ethanol	3.791	45	224237m	3109.68	ug/Kg	
105) Acrolein	4.137	56	718785	687.04	ug/Kg	94
106) Tert butyl alcohol	4.788	59	918559	1478.91	ug/Kg	79
107) Isobutyl alcohol	6.869	42	588925	3048.12	ug/Kg	91
108) Tert Amyl Alcohol	6.972	59	948840	1591.28	ug/Kg	98
109) 1,4-Dioxane	8.086	88	235751	3485.09	ug/Kg#	75

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077213.D
Acq On : 9 May 2016 10:40 am
Operator : ericp
Sample : IC2649-6 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 09 10:57:58 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:56:46 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

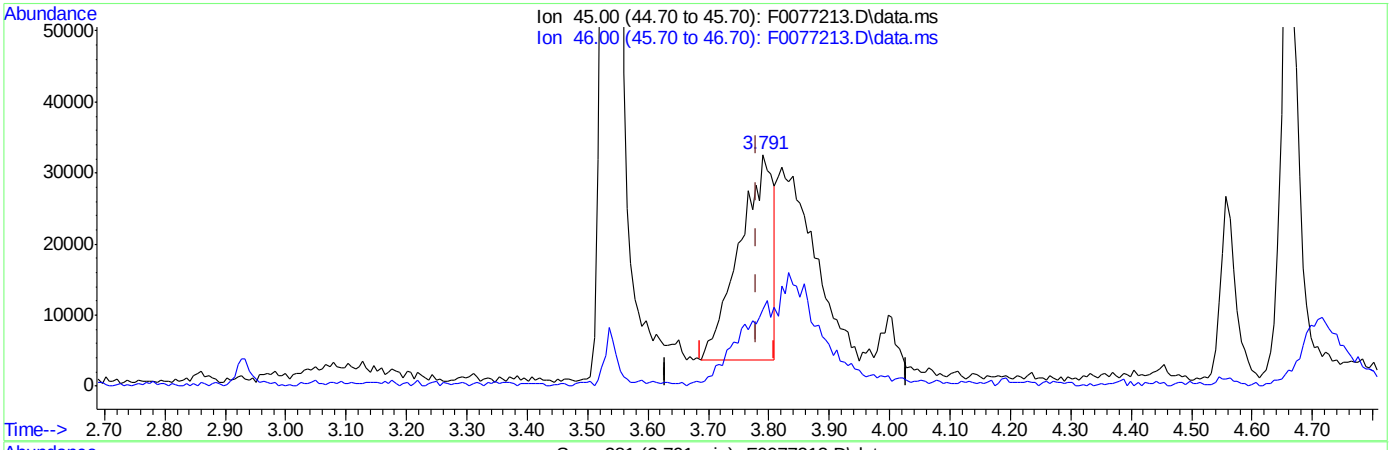
Sample Number:	VF2649-IC2649	**Method:**	SW846 8260B
Lab FileID:	F0077213.D	**Analyst approved:**	05/10/16 07:22 Eric Parrish
Injection Time:	05/09/16 10:40	**Supervisor approved:**	05/12/16 09:56 Juan Garcia

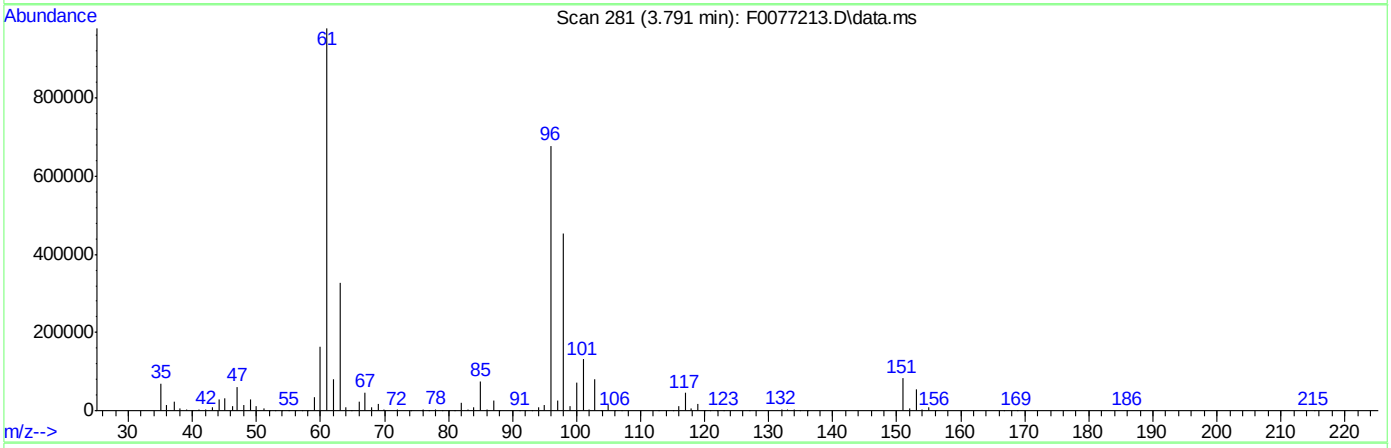
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.79	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077213.D
Acq On : 9 May 2016 10:40 am
Operator : ericp
Sample : IC2649-6 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 09 10:56:51 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:56:46 2016
Response via : Initial Calibration





TIC: F0077213.D\data.ms

(104) Ethanol

3.791min (+0.012) 1549.15ug/Kg

response 111708

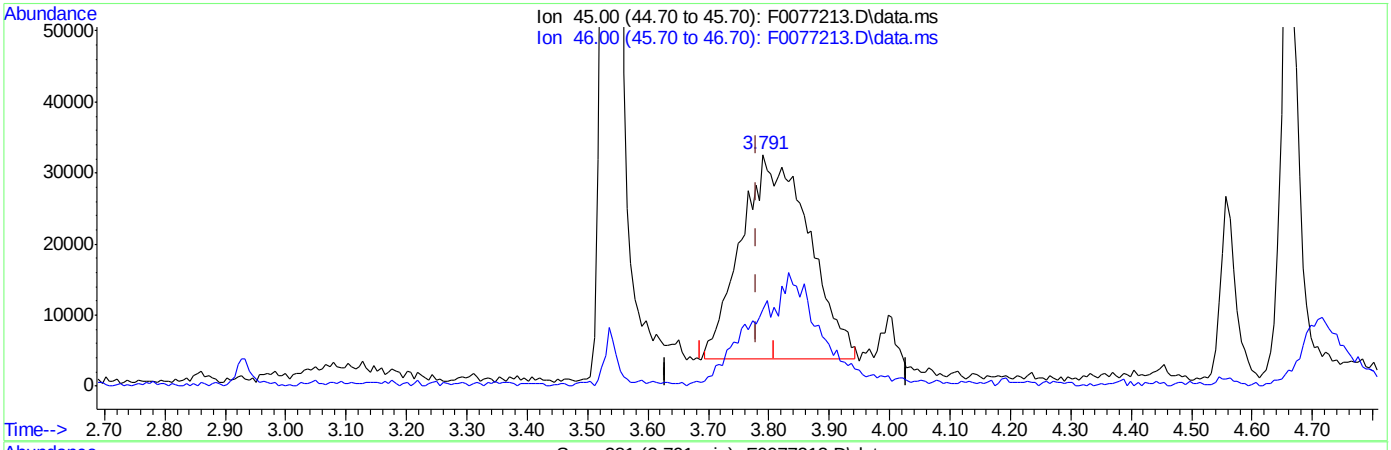
Ion	Exp%	Act%
45.00	100	100
46.00	35.00	35.56
0.00	0.00	0.00
0.00	0.00	0.00

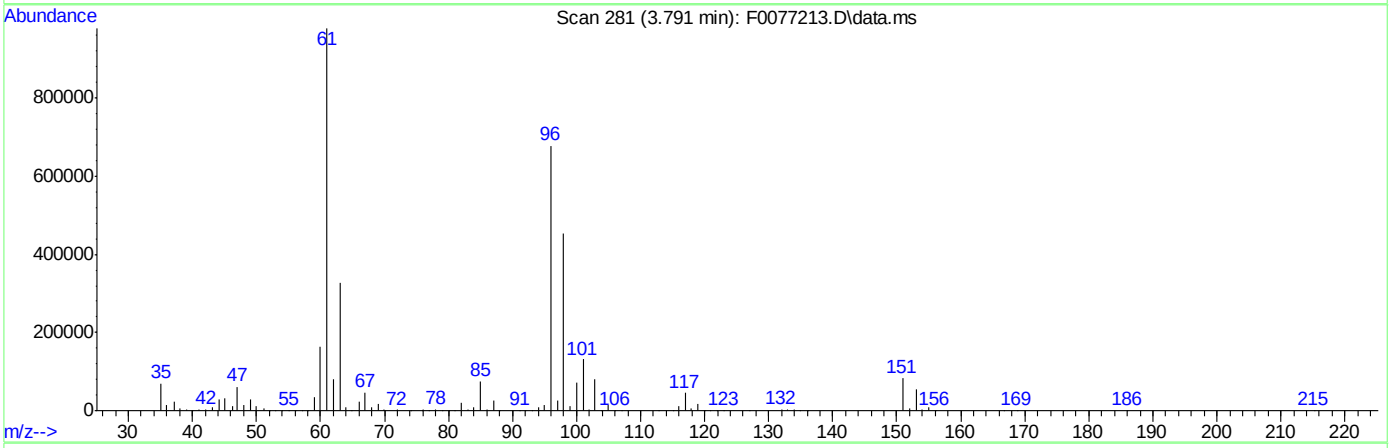
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077213.D
Acq On : 9 May 2016 10:40 am
Operator : ericp
Sample : IC2649-6 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 09 10:56:51 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 10:56:46 2016
Response via : Initial Calibration





TIC: F0077213.D\data.ms

(104) Ethanol

3.791min (+0.012) 3109.68ug/Kg m

response 224237

Ion	Exp%	Act%
45.00	100	100
46.00	35.00	33.30
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077214.D
Acq On : 9 May 2016 11:03 am
Operator : ericp
Sample : IC2649-7 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 09 11:19:20 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 11:19:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.082	96	980637	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	779768	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	452440	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.703	65	124833	250.00	ug/Kg	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.236	113	249545	47.92	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.84%			
44) 1,2-Dichloroethane-d4	6.802	65	277921	51.10	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 102.20%			
55) Toluene-d8	8.658	98	967421	46.27	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 92.54%			
77) 4-Bromofluorobenzene	11.444	174	306287	48.55	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.215	85	1790292	208.85	ug/Kg	99
3) Chloromethane	2.440	50	2025335	218.76	ug/Kg	99
4) Vinyl Chloride	2.550	62	2174079	217.45	ug/Kg	98
5) Bromomethane	2.927	94	1247600	227.35	ug/Kg	98
6) Chloroethane	3.073	64	744948	207.35	ug/Kg	94
7) Trichlorofluoromethane	3.225	101	2586393	202.83	ug/Kg	97
8) Ethyl Ether	3.535	59	1044713	233.24	ug/Kg	93
9) 1,2-Dichlorotrifluoroe...	3.754	67	1833217	217.26	ug/Kg	98
10) 1,1-Dichloroethene	3.785	61	2815856	217.83	ug/Kg	92
11) Freon 113	3.815	101	1539491	200.98	ug/Kg	97
12) Carbon Disulfide	3.845	76	5283454	215.17	ug/Kg	98
13) Iodomethane	3.961	142	2780035	199.48	ug/Kg	96
14) Allyl chloride	4.271	41	566558	118.79	ug/Kg	96
15) Methylene Chloride	4.405	49	1922535	207.19	ug/Kg	93
16) Acetone	4.448	43	2155383	1016.42	ug/Kg	95
17) Methyl acetate	4.557	43	4238576	1016.80	ug/Kg	89
18) trans-1,2-Dichloroethene	4.569	61	1960152	216.33	ug/Kg	94
19) Hexane	4.618	56	1010042	199.26	ug/Kg#	90
20) Methyl Tert Butyl Ether	4.655	73	3566144	218.67	ug/Kg	97
21) Acetonitrile	4.953	41	1443950	2150.83	ug/Kg	98
22) Di-isopropyl ether	5.038	45	4194384	211.00	ug/Kg	89
23) Chloroprene	5.172	53	2234287	212.88	ug/Kg	96
24) 1,1-Dichloroethane	5.202	63	2425028	217.49	ug/Kg	100
25) Acrylonitrile	5.263	53	2216153	1137.24	ug/Kg	92
26) ETBE	5.421	59	3906803	215.26	ug/Kg	92
27) Vinyl acetate	5.439	43	10075078	922.71	ug/Kg	83
28) cis-1,2-Dichloroethene	5.768	96	1323832	187.56	ug/Kg	95
29) 2,2-Dichloropropane	5.883	77	649888	175.06	ug/Kg	96
30) Bromochloromethane	5.981	128	632934	188.57	ug/Kg#	85
31) Cyclohexane	5.999	56	2467292	200.41	ug/Kg	98
32) Chloroform	6.042	83	2227585	199.30	ug/Kg	96
33) Ethyl acetate	6.151	43	5484127	1061.41	ug/Kg	99
34) Tetrahydrofuran	6.236	42	340837	206.56	ug/Kg	88

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077214.D
Acq On : 9 May 2016 11:03 am
Operator : ericp
Sample : IC2649-7 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 09 11:19:20 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 11:19:14 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.212	117	1447670	201.40	ug/Kg	98
37)	1,1,1-Trichloroethane	6.279	97	1262152	187.82	ug/Kg	96
38)	2-Butanone	6.370	43	3176694	1057.09	ug/Kg	99
39)	1,1-Dichloropropene	6.401	75	1537097	185.72	ug/Kg	92
40)	Propionitrile	6.699	54	1729373	2220.60	ug/Kg#	60
41)	Methacrylonitrile	6.705	41	7148491	2160.46	ug/Kg	87
42)	Benzene	6.662	78	4606433	192.76	ug/Kg	90
43)	TAME	6.753	73	3415649	203.68	ug/Kg	97
45)	1,2-Dichloroethane	6.875	62	1516233	206.25	ug/Kg	94
46)	Trichloroethene	7.252	95	1242594	194.93	ug/Kg	91
47)	Methylcyclohexane	7.252	83	2189490	193.51	ug/Kg	96
48)	Dibromomethane	7.690	93	700096	201.94	ug/Kg	89
49)	1,2-Dichloropropane	7.788	63	1227798	200.68	ug/Kg	88
50)	Bromodichloromethane	7.836	83	1469662	216.41	ug/Kg	98
51)	Methyl methacrylate	7.964	41	991857	217.66	ug/Kg	92
52)	2-Chloroethyl vinyl ether	8.390	63	3814006	1082.55	ug/Kg	98
53)	cis-1,3-Dichloropropene	8.469	75	1804637	213.07	ug/Kg	86
56)	Toluene	8.706	91	4651882	175.38	ug/Kg	97
57)	2-Nitropropane	8.944	41	1441822	1188.59	ug/Kg	91
58)	4-Methyl-2-pentanone	9.071	43	5986943	960.86	ug/Kg	90
59)	trans-1,3-Dichloropropene	9.114	75	1521201	200.77	ug/Kg	93
60)	Tetrachloroethene	9.102	166	1168721	179.68	ug/Kg	97
61)	Ethyl methacrylate	9.242	69	1371749	196.53	ug/Kg	94
62)	1,1,2-Trichloroethane	9.284	83	862083	189.53	ug/Kg	93
63)	Dibromochloromethane	9.473	129	1034164	201.13	ug/Kg	96
64)	1,3-Dichloropropane	9.564	76	1646994	190.60	ug/Kg	94
65)	1,2-Dibromoethane	9.722	107	1001110	192.07	ug/Kg	97
66)	2-hexanone	9.899	43	4643022	1003.65	ug/Kg	96
67)	1-Chlorohexane	10.185	91	1508205	187.51	ug/Kg	96
68)	Ethylbenzene	10.245	91	5188063	186.23	ug/Kg	92
69)	Chlorobenzene	10.239	112	3108174	195.18	ug/Kg	91
70)	1,1,1,2-Tetrachloroethane	10.294	131	1082117	218.72	ug/Kg	97
71)	m,p-Xylene	10.385	91	7138343	353.46	ug/Kg	84
72)	o-Xylene	10.823	91	4101316	196.55	ug/Kg	99
73)	Styrene	10.878	104	3216281	202.48	ug/Kg	95
74)	Bromoform	10.927	173	599307	200.08	ug/Kg	95
75)	Isopropylbenzene	11.134	105	5028820	201.39	ug/Kg	96
78)	cis-1,4-Dichloro-2-butene	11.493	53	430584	211.82	ug/Kg	88
79)	n-Propylbenzene	11.559	91	5825574	170.81	ug/Kg	69
80)	Bromobenzene	11.559	156	1481115	201.37	ug/Kg	99
81)	1,1,2,2-Tetrachloroethane	11.632	83	1498545	195.94	ug/Kg	97
82)	1,3,5-Trimethylbenzene	11.748	105	4681811	184.75	ug/Kg	92
83)	2-Chlorotoluene	11.736	91	4316418	184.62	ug/Kg	94
84)	trans-1,4-Dichloro-2-B...	11.815	53	440425	206.60	ug/Kg	90
85)	1,2,3-Trichloropropane	11.785	110	385413	201.79	ug/Kg	95
86)	Cyclohexanone	11.851	55	344194	919.10	ug/Kg	89
87)	4-Chlorotoluene	11.906	91	3617793	174.27	ug/Kg	97
88)	tert-Butylbenzene	12.083	91	2944118	193.30	ug/Kg	99
89)	1,2,4-Trimethylbenzene	12.156	105	4448125	184.01	ug/Kg	96
90)	Pentachloroethane	12.131	167	759465	227.64	ug/Kg	97

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077214.D
Acq On : 9 May 2016 11:03 am
Operator : ericp
Sample : IC2649-7 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 09 11:19:20 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 11:19:14 2016
Response via : Initial Calibration

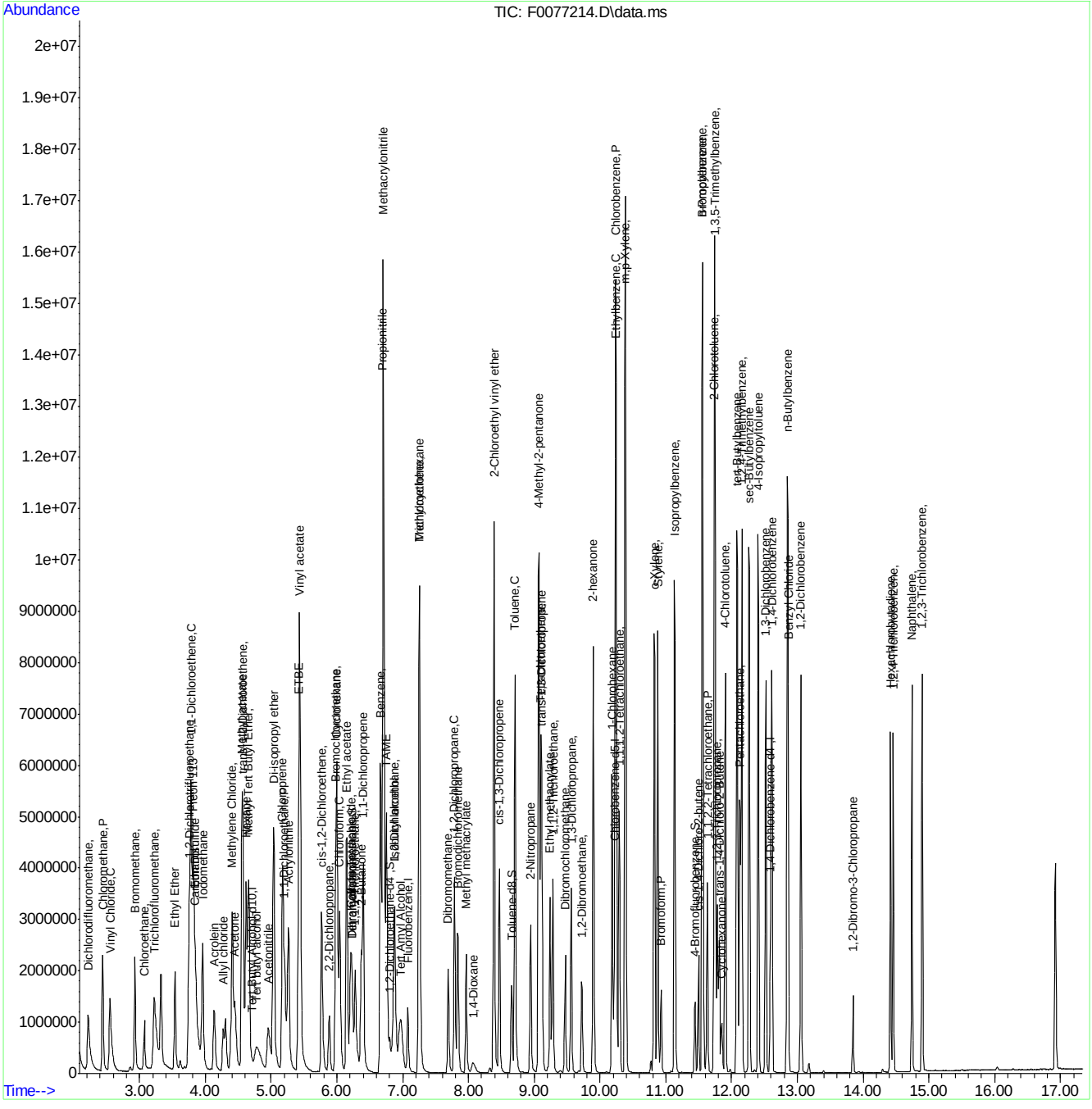
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.265	105	5747710	178.39	ug/Kg	94
92) 4-Isopropyltoluene	12.405	119	4619590	179.64	ug/Kg	96
93) 1,3-Dichlorobenzene	12.521	146	2429925	184.97	ug/Kg	94
94) 1,4-Dichlorobenzene	12.612	146	2383215	176.93	ug/Kg	96
95) n-Butylbenzene	12.849	92	2733465	180.25	ug/Kg	98
96) Benzyl Chloride	12.861	126	578106	237.17	ug/Kg#	85
97) 1,2-Dichlorobenzene	13.056	146	2429565	189.58	ug/Kg	96
98) 1,2-Dibromo-3-Chloropr...	13.847	75	270310	220.39	ug/Kg	90
99) Hexachlorobutadiene	14.419	225	817405	177.29	ug/Kg	93
100) 1,2,4-Trichlorobenzene	14.461	180	1432079	173.05	ug/Kg	98
101) Naphthalene	14.741	128	3819927	189.56	ug/Kg	96
102) 1,2,3-Trichlorobenzene	14.899	180	1478055	181.06	ug/Kg	97
104) Ethanol	3.839	45	317911	4363.46	ug/Kg	56
105) Acrolein	4.131	56	1131598	1151.41	ug/Kg	92
106) Tert butyl alcohol	4.782	59	1087511	1924.22	ug/Kg	73
107) Isobutyl alcohol	6.875	42	853330	4685.50	ug/Kg	90
108) Tert Amyl Alcohol	6.972	59	1206502	2177.09	ug/Kg	97
109) 1,4-Dioxane	8.074	88	279924	4436.85	ug/Kg	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077214.D
Acq On : 9 May 2016 11:03 am
Operator : ericp
Sample : IC2649-7 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 09 11:19:20 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 11:19:14 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/12/16 09:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077216.D
Acq On : 9 May 2016 11:49 am
Operator : ericp
Sample : ICV2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 10 10:03:13 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.082	96	1085546	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	749205	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	397842	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.722	65	134228	250.00	ug/Kg	0.03
System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	302060	52.40	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.80%			
44) 1,2-Dichloroethane-d4	6.808	65	301523	50.08	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 100.16%			
55) Toluene-d8	8.658	98	1080676	53.79	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 107.58%			
77) 4-Bromofluorobenzene	11.444	174	276983	49.93	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 99.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.215	85	529489	55.80	ug/Kg	98
3) Chloromethane	2.440	50	563756	55.01	ug/Kg	98
4) Vinyl Chloride	2.550	62	591768	53.47	ug/Kg	99
5) Bromomethane	2.933	94	337514	55.56	ug/Kg	96
6) Chloroethane	3.079	64	278933	59.67	ug/Kg	93
7) Trichlorofluoromethane	3.231	101	710717	59.35	ug/Kg	99
8) Ethyl Ether	3.535	59	250092	50.44	ug/Kg	88
9) 1,2-Dichlorotrifluoroe...	3.760	67	501799	53.72	ug/Kg	80
10) 1,1-Dichloroethene	3.785	61	739333	51.67	ug/Kg	88
11) Freon 113	3.815	101	460942	54.36	ug/Kg	93
12) Carbon Disulfide	3.839	76	1418421	52.18	ug/Kg	98
13) Iodomethane	3.961	142	919720	59.62	ug/Kg	100
14) Allyl chloride	4.271	41	232009	41.16	ug/Kg	82
15) Methylene Chloride	4.405	49	472851	46.72	ug/Kg	80
16) Acetone	4.454	43	381054	201.58	ug/Kg	96
17) Methyl acetate	4.563	43	906430	255.35	ug/Kg	85
18) trans-1,2-Dichloroethene	4.569	61	546180	54.45	ug/Kg	83
19) Hexane	4.612	56	326622	58.21	ug/Kg	90
20) Methyl Tert Butyl Ether	4.667	73	941408	52.15	ug/Kg	93
21) Acetonitrile	4.965	41	352966	474.95	ug/Kg	99
22) Di-isopropyl ether	5.050	45	1148204	52.18	ug/Kg	91
23) Chloroprene	5.172	53	543701	46.80	ug/Kg	96
24) 1,1-Dichloroethane	5.202	63	658488	53.35	ug/Kg	99
25) Acrylonitrile	5.275	53	570204	264.33	ug/Kg	93
26) ETBE	5.433	59	1027580	51.15	ug/Kg	92
27) Vinyl acetate	5.445	43	3440684	284.66	ug/Kg	94
28) cis-1,2-Dichloroethene	5.768	96	415843	53.22	ug/Kg	99
29) 2,2-Dichloropropane	5.883	77	240996	58.64	ug/Kg	99
30) Bromochloromethane	5.987	128	194108	52.24	ug/Kg	92
31) Cyclohexane	5.993	56	692275	50.80	ug/Kg	95
32) Chloroform	6.048	83	649278	52.48	ug/Kg	98
33) Ethyl acetate	6.163	43	1597493	279.30	ug/Kg	98
34) Tetrahydrofuran	6.249	42	102493	56.11	ug/Kg	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077216.D
Acq On : 9 May 2016 11:49 am
Operator : ericp
Sample : ICV2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 10 10:03:13 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.206	117	458993	57.68	ug/Kg	95
37)	1,1,1-Trichloroethane	6.279	97	401546	53.98	ug/Kg	99
38)	2-Butanone	6.382	43	763769	229.59	ug/Kg	94
39)	1,1-Dichloropropene	6.401	75	512838	55.97	ug/Kg	97
40)	Propionitrile	6.705	54	469870	545.03	ug/Kg	72
41)	Methacrylonitrile	6.711	41	1953626	533.38	ug/Kg	94
42)	Benzene	6.662	78	1456842	55.07	ug/Kg	97
43)	TAME	6.766	73	935168	50.38	ug/Kg	98
45)	1,2-Dichloroethane	6.875	62	434709	53.42	ug/Kg	94
46)	Trichloroethene	7.252	95	388721	55.09	ug/Kg	94
47)	Methylcyclohexane	7.252	83	684162	54.62	ug/Kg	92
48)	Dibromomethane	7.696	93	214981	56.02	ug/Kg	97
49)	1,2-Dichloropropane	7.794	63	362748	53.56	ug/Kg	89
50)	Bromodichloromethane	7.842	83	416343	55.38	ug/Kg	99
51)	Methyl methacrylate	7.970	41	273068	54.13	ug/Kg	92
52)	2-Chloroethyl vinyl ether	8.390	63	1040317	266.74	ug/Kg	98
53)	cis-1,3-Dichloropropene	8.475	75	527987	56.32	ug/Kg	96
56)	Toluene	8.712	91	1480002	58.07	ug/Kg	96
57)	2-Nitropropane	8.950	41	291435	250.05	ug/Kg	95
58)	4-Methyl-2-pentanone	9.077	43	1519417	253.80	ug/Kg	97
59)	trans-1,3-Dichloropropene	9.120	75	429032	58.94	ug/Kg	79
60)	Tetrachloroethene	9.102	166	342190	54.76	ug/Kg	95
61)	Ethyl methacrylate	9.248	69	311414	46.44	ug/Kg	91
62)	1,1,2-Trichloroethane	9.284	83	231468	52.96	ug/Kg	94
63)	Dibromochloromethane	9.473	129	231368	51.50	ug/Kg	100
64)	1,3-Dichloropropane	9.564	76	435058	52.40	ug/Kg	94
65)	1,2-Dibromoethane	9.728	107	257222	51.36	ug/Kg	100
66)	2-hexanone	9.905	43	1098156	247.06	ug/Kg	95
67)	1-Chlorohexane	10.185	91	424233	54.90	ug/Kg	93
68)	Ethylbenzene	10.245	91	1515509	56.62	ug/Kg	98
69)	Chlorobenzene	10.239	112	853577	55.79	ug/Kg	90
70)	1,1,1,2-Tetrachloroethane	10.294	131	268211	56.42	ug/Kg	94
71)	m,p-Xylene	10.385	91	2286046	117.81	ug/Kg	96
72)	o-Xylene	10.823	91	1137205	56.72	ug/Kg	95
73)	Styrene	10.878	104	867094	56.82	ug/Kg	96
74)	Bromoform	10.933	173	97287	58.56	ug/Kg	98
75)	Isopropylbenzene	11.134	105	1390446	57.95	ug/Kg	97
78)	cis-1,4-Dichloro-2-butene	11.499	53	87301	48.84	ug/Kg	85
79)	n-Propylbenzene	11.559	91	1733197	57.79	ug/Kg	60
80)	Bromobenzene	11.559	156	341301	52.77	ug/Kg	99
81)	1,1,2,2-Tetrachloroethane	11.632	83	347291	51.64	ug/Kg	96
82)	1,3,5-Trimethylbenzene	11.748	105	1209524	54.28	ug/Kg	86
83)	2-Chlorotoluene	11.736	91	1145465	55.72	ug/Kg	91
84)	trans-1,4-Dichloro-2-B...	11.815	53	93331	49.79	ug/Kg	92
85)	1,2,3-Trichloropropane	11.785	110	92342	54.98	ug/Kg	93
86)	Cyclohexanone	11.851	55	72474	220.09	ug/Kg	89
87)	4-Chlorotoluene	11.906	91	1033440	56.61	ug/Kg	92
88)	tert-Butylbenzene	12.083	91	734333	54.83	ug/Kg	95
89)	1,2,4-Trimethylbenzene	12.156	105	1192353	56.09	ug/Kg	96
90)	Pentachloroethane	12.131	167	151605	51.68	ug/Kg	94

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077216.D
Acq On : 9 May 2016 11:49 am
Operator : ericp
Sample : ICV2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 10 10:03:13 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration

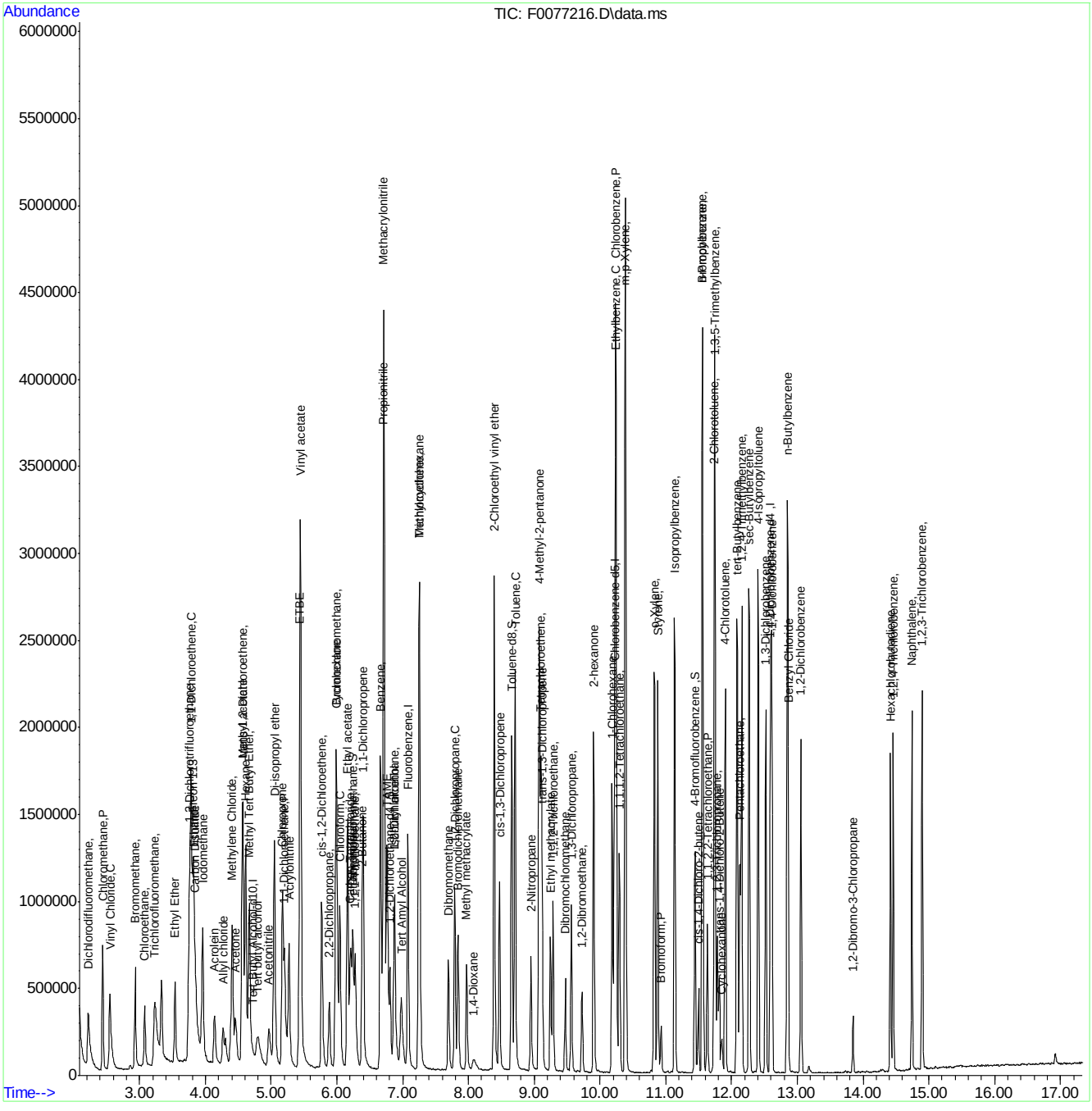
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.265	105	1627200	57.43	ug/Kg	96
92)	4-Isopropyltoluene	12.405	119	1282350	56.71	ug/Kg	97
93)	1,3-Dichlorobenzene	12.521	146	656683	56.85	ug/Kg	94
94)	1,4-Dichlorobenzene	12.612	146	669668	56.54	ug/Kg	98
95)	n-Butylbenzene	12.849	92	769442	57.70	ug/Kg	90
96)	Benzyl Chloride	12.861	126	112679	52.57	ug/Kg#	69
97)	1,2-Dichlorobenzene	13.056	146	608349	53.98	ug/Kg	97
98)	1,2-Dibromo-3-Chloropr...	13.847	75	56582	52.46	ug/Kg	83
99)	Hexachlorobutadiene	14.419	225	220745	54.45	ug/Kg	94
100)	1,2,4-Trichlorobenzene	14.461	180	409098	56.22	ug/Kg	97
101)	Naphthalene	14.741	128	1060488	59.85	ug/Kg	99
102)	1,2,3-Trichlorobenzene	14.899	180	407138	56.72	ug/Kg	97
104)	Ethanol	3.827	45	74837m	955.28	ug/Kg	
105)	Acrolein	4.138	56	271819	257.22	ug/Kg	93
106)	Tert butyl alcohol	4.795	59	329866	542.81	ug/Kg	84
107)	Isobutyl alcohol	6.875	42	209517	1069.90	ug/Kg	90
108)	Tert Amyl Alcohol	6.979	59	343602	576.62	ug/Kg	97
109)	1,4-Dioxane	8.074	88	82678	1218.74	ug/Kg	78

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077216.D
Acq On : 9 May 2016 11:49 am
Operator : ericp
Sample : ICV2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 10 10:03:13 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration



050916APP9-F.m Tue May 10 10:06:43 2016 Page: 4

SGS ACCUTEST FA33788

Manual Integration Approval Summary

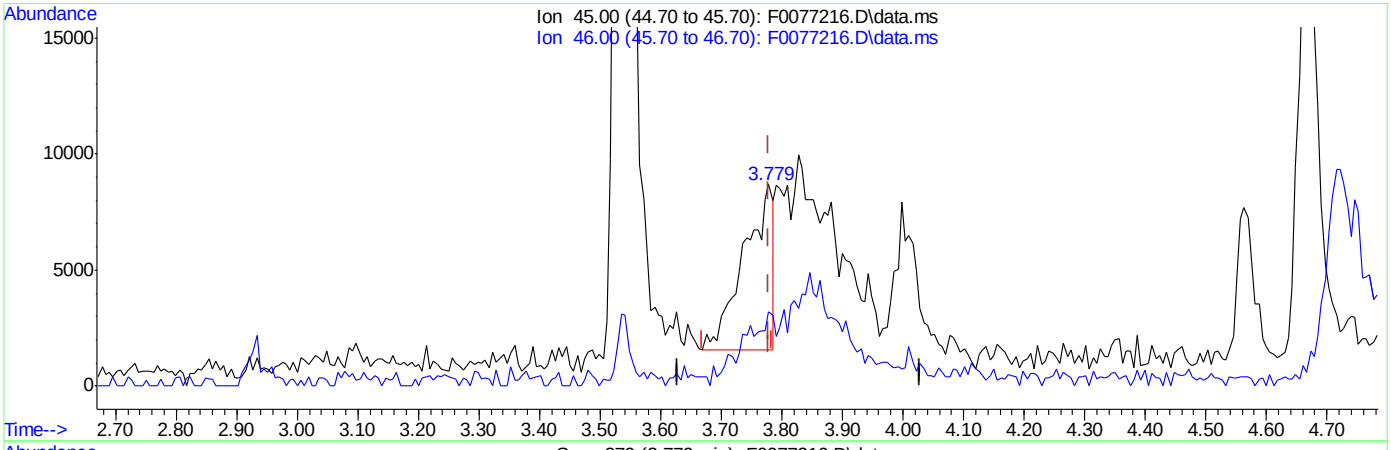
Sample Number:	VF2649-ICV2649	**Method:**	SW846 8260B
Lab FileID:	F0077216.D	**Analyst approved:**	05/10/16 10:20 Eric Parrish
Injection Time:	05/09/16 11:49	**Supervisor approved:**	05/12/16 09:56 Juan Garcia

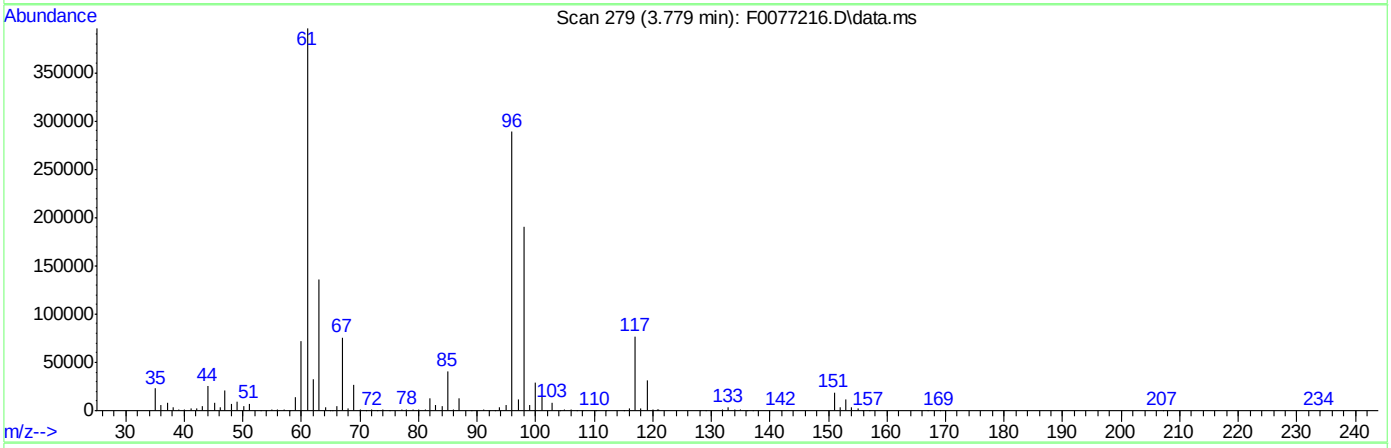
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.83	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077216.D
Acq On : 9 May 2016 11:49 am
Operator : ericp
Sample : ICV2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 10 10:00:26 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration





TIC: F0077216.D\data.ms

(104) Ethanol

3.779min (-0.000) 299.37ug/Kg

response 23453

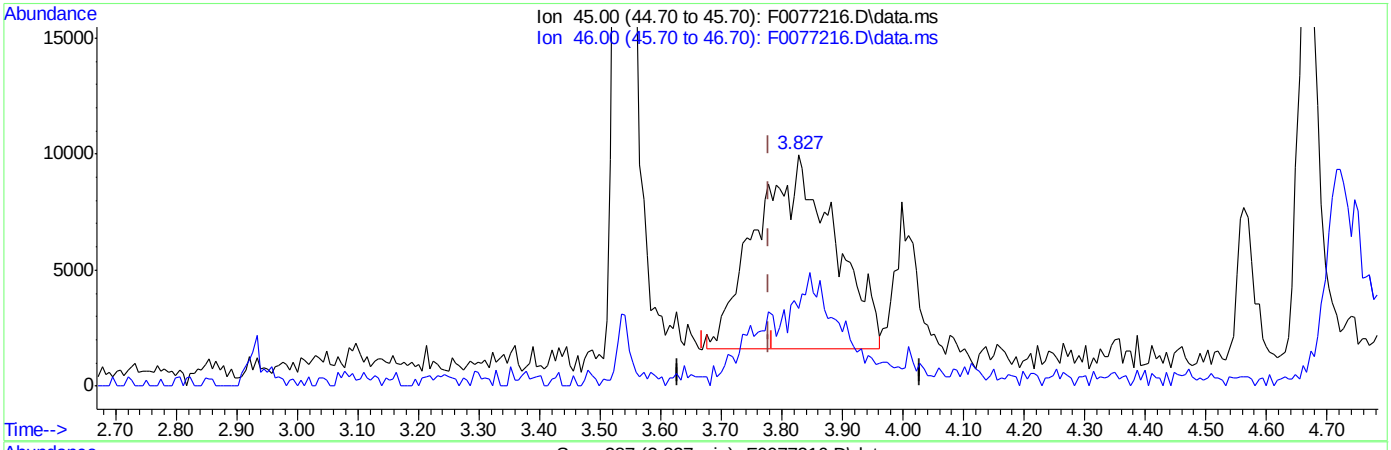
Ion	Exp%	Act%
45.00	100	100
46.00	35.00	39.19
0.00	0.00	0.00
0.00	0.00	0.00

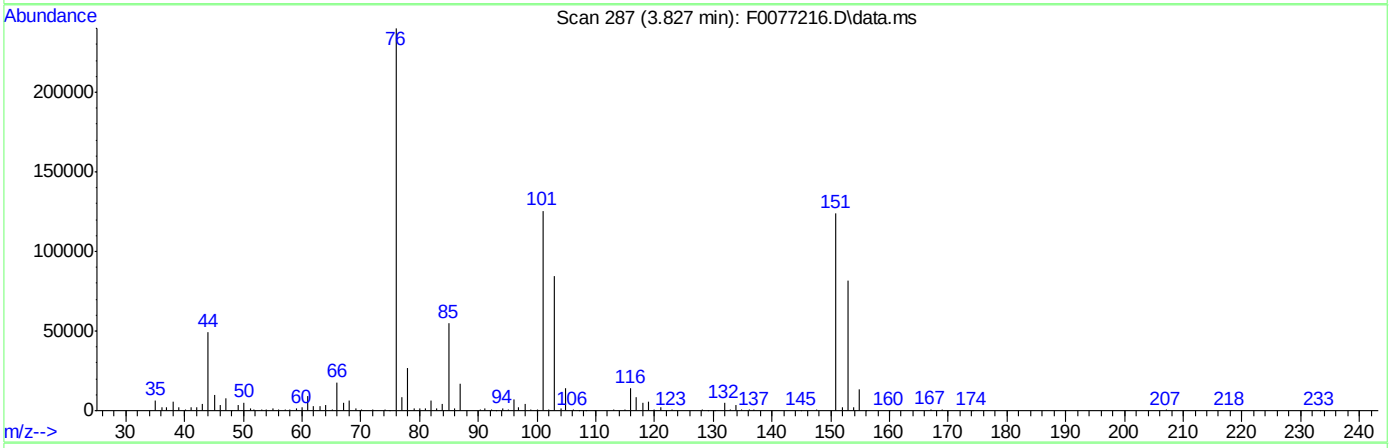
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\050916\
Data File : F0077216.D
Acq On : 9 May 2016 11:49 am
Operator : ericp
Sample : ICV2649-4 Inst : MSVOA9
Misc : MS33812,vf2649,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: May 10 10:00:26 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration





TIC: F0077216.D\data.ms

(104) Ethanol

3.827min (+0.048) 955.28ug/Kg m

response 74837

Ion	Exp%	Act%
45.00	100	100
46.00	35.00	33.71
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/12/16 13:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077271.D
Acq On : 11 May 2016 9:51 am
Operator : ericp
Sample : CC2649-4 Inst : MSVOA9
Misc : MS33830,vf2651,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 12:05:53 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.082	96	991281	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	670793	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	361240	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.685	65	149123	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.236	113	285690	54.27	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.54%			
44) 1,2-Dichloroethane-d4	6.802	65	288224	52.43	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 104.86%			
55) Toluene-d8	8.658	98	834517	46.40	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 92.80%			
77) 4-Bromofluorobenzene	11.444	174	236669	46.99	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 93.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.215	85	468103	54.02	ug/Kg	97
3) Chloromethane	2.440	50	501363	53.57	ug/Kg	97
4) Vinyl Chloride	2.544	62	537116	53.15	ug/Kg	97
5) Bromomethane	2.927	94	298696	53.85	ug/Kg	95
6) Chloroethane	3.073	64	268577	63.50	ug/Kg	95
7) Trichlorofluoromethane	3.231	101	608731	55.72	ug/Kg	97
8) Ethyl Ether	3.535	59	268781	59.36	ug/Kg	93
9) 1,2-Dichlorotrifluoroe...	3.760	67	475142	55.71	ug/Kg	98
10) 1,1-Dichloroethene	3.785	61	722283	55.27	ug/Kg	98
11) Freon 113	3.815	101	411719	53.17	ug/Kg	95
12) Carbon Disulfide	3.846	76	1336209	53.83	ug/Kg	96
13) Iodomethane	3.961	142	660559	46.89	ug/Kg	93
14) Allyl chloride	4.271	41	301612	58.59	ug/Kg	88
15) Methylene Chloride	4.405	49	515941	56.96	ug/Kg	97
16) Acetone	4.442	43	536071	308.37	ug/Kg	96
17) Methyl acetate	4.551	43	1043750	314.65	ug/Kg	96
18) trans-1,2-Dichloroethene	4.569	61	500089	54.60	ug/Kg	96
19) Hexane	4.624	56	301234	58.79	ug/Kg	94
20) Methyl Tert Butyl Ether	4.655	73	868911	52.71	ug/Kg	97
21) Acetonitrile	4.953	41	365179	538.11	ug/Kg	98
22) Di-isopropyl ether	5.038	45	1096880	54.59	ug/Kg	91
23) Chloroprene	5.172	53	554926	52.30	ug/Kg	93
24) 1,1-Dichloroethane	5.202	63	612246	54.32	ug/Kg	99
25) Acrylonitrile	5.263	53	556943	282.73	ug/Kg	91
26) ETBE	5.421	59	987257	53.81	ug/Kg	96
27) Vinyl acetate	5.439	43	3257694	295.15	ug/Kg	94
28) cis-1,2-Dichloroethene	5.768	96	389761	54.63	ug/Kg	96
29) 2,2-Dichloropropane	5.884	77	202906	54.07	ug/Kg	98
30) Bromochloromethane	5.981	128	184589	54.41	ug/Kg	88
31) Cyclohexane	5.999	56	687588	55.25	ug/Kg	97
32) Chloroform	6.042	83	649835	57.51	ug/Kg	99
33) Ethyl acetate	6.151	43	1498001	286.81	ug/Kg	98
34) Tetrahydrofuran	6.236	42	85017	50.97	ug/Kg	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077271.D
Acq On : 11 May 2016 9:51 am
Operator : ericp
Sample : CC2649-4 Inst : MSVOA9
Misc : MS33830,vf2651,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 12:05:53 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.212	117	410794	56.54	ug/Kg	94
37)	1,1,1-Trichloroethane	6.279	97	380874	56.07	ug/Kg	96
38)	2-Butanone	6.370	43	836453	275.35	ug/Kg	95
39)	1,1-Dichloropropene	6.401	75	470467	56.23	ug/Kg	95
40)	Propionitrile	6.693	54	428605	544.44	ug/Kg	95
41)	Methacrylonitrile	6.705	41	1873503	560.14	ug/Kg	95
42)	Benzene	6.662	78	1353695	56.04	ug/Kg	93
43)	TAME	6.753	73	894626	52.77	ug/Kg	99
45)	1,2-Dichloroethane	6.875	62	402363	54.14	ug/Kg	93
46)	Trichloroethene	7.252	95	337134	52.32	ug/Kg	90
47)	Methylcyclohexane	7.252	83	596082	52.12	ug/Kg	96
48)	Dibromomethane	7.690	93	174970	49.93	ug/Kg	86
49)	1,2-Dichloropropane	7.788	63	299927	48.50	ug/Kg	87
50)	Bromodichloromethane	7.842	83	332167	48.39	ug/Kg	97
51)	Methyl methacrylate	7.970	41	225370	48.92	ug/Kg	94
52)	2-Chloroethyl vinyl ether	8.390	63	863290	242.40	ug/Kg	97
53)	cis-1,3-Dichloropropene	8.469	75	400831	46.82	ug/Kg	86
56)	Toluene	8.706	91	1146863	50.26	ug/Kg	95
57)	2-Nitropropane	8.950	41	232839	223.13	ug/Kg	95
58)	4-Methyl-2-pentanone	9.071	43	1444970	269.58	ug/Kg	96
59)	trans-1,3-Dichloropropene	9.114	75	328482	50.40	ug/Kg#	78
60)	Tetrachloroethene	9.102	166	266599	47.65	ug/Kg	98
61)	Ethyl methacrylate	9.242	69	292742	48.76	ug/Kg	91
62)	1,1,2-Trichloroethane	9.284	83	192916	49.30	ug/Kg	90
63)	Dibromochloromethane	9.473	129	195597	48.71	ug/Kg	93
64)	1,3-Dichloropropane	9.564	76	376006	50.58	ug/Kg	93
65)	1,2-Dibromoethane	9.722	107	217163	48.43	ug/Kg	97
66)	2-hexanone	9.899	43	1075250	270.19	ug/Kg	96
67)	1-Chlorohexane	10.185	91	358195	51.77	ug/Kg	92
68)	Ethylbenzene	10.245	91	1259868	52.57	ug/Kg	100
69)	Chlorobenzene	10.239	112	719271	52.51	ug/Kg	89
70)	1,1,1,2-Tetrachloroethane	10.294	131	214032	50.29	ug/Kg	98
71)	m,p-Xylene	10.385	91	1945085	111.96	ug/Kg	94
72)	o-Xylene	10.823	91	953796	53.13	ug/Kg	95
73)	Styrene	10.878	104	732587	53.61	ug/Kg	97
74)	Bromoform	10.927	173	91562	60.84	ug/Kg	97
75)	Isopropylbenzene	11.134	105	1158557	53.93	ug/Kg	97
78)	cis-1,4-Dichloro-2-butene	11.493	53	81784	50.39	ug/Kg#	79
79)	n-Propylbenzene	11.553	91	1436293	52.74	ug/Kg	58
80)	Bromobenzene	11.560	156	288386	49.11	ug/Kg	95
81)	1,1,2,2-Tetrachloroethane	11.633	83	306720	50.23	ug/Kg	99
82)	1,3,5-Trimethylbenzene	11.748	105	1064633	52.62	ug/Kg	84
83)	2-Chlorotoluene	11.736	91	978802	52.44	ug/Kg	92
84)	trans-1,4-Dichloro-2-B...	11.815	53	85553	50.26	ug/Kg	86
85)	1,2,3-Trichloropropane	11.785	110	78248	51.31	ug/Kg	91
86)	Cyclohexanone	11.845	55	74990	250.80	ug/Kg	85
87)	4-Chlorotoluene	11.906	91	883517	53.30	ug/Kg	90
88)	tert-Butylbenzene	12.083	91	618964	50.90	ug/Kg	98
89)	1,2,4-Trimethylbenzene	12.156	105	1009091	52.28	ug/Kg	97
90)	Pentachloroethane	12.125	167	133643	50.17	ug/Kg	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077271.D
Acq On : 11 May 2016 9:51 am
Operator : ericp
Sample : CC2649-4 Inst : MSVOA9
Misc : MS33830,vf2651,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 12:05:53 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.265	105	1362231	52.95	ug/Kg	95
92) 4-Isopropyltoluene	12.405	119	1090986	53.14	ug/Kg	98
93) 1,3-Dichlorobenzene	12.521	146	556378	53.04	ug/Kg	95
94) 1,4-Dichlorobenzene	12.612	146	571198	53.11	ug/Kg	97
95) n-Butylbenzene	12.849	92	659637	54.48	ug/Kg	85
96) Benzyl Chloride	12.861	126	97745	50.22	ug/Kg	97
97) 1,2-Dichlorobenzene	13.056	146	523879	51.20	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.847	75	48102	49.12	ug/Kg	86
99) Hexachlorobutadiene	14.419	225	187428	50.92	ug/Kg	95
100) 1,2,4-Trichlorobenzene	14.455	180	367478	55.62	ug/Kg	93
101) Naphthalene	14.741	128	868680	53.99	ug/Kg	99
102) 1,2,3-Trichlorobenzene	14.899	180	355581	54.55	ug/Kg	97
104) Ethanol	3.742	45	71435m	820.77	ug/Kg	
105) Acrolein	4.131	56	286484	244.02	ug/Kg	95
106) Tert butyl alcohol	4.758	59	302412	447.92	ug/Kg	88
107) Isobutyl alcohol	6.845	42	192877	886.55	ug/Kg	89
108) Tert Amyl Alcohol	6.954	59	286152	432.25	ug/Kg	85
109) 1,4-Dioxane	8.068	88	55428	735.44	ug/Kg	78

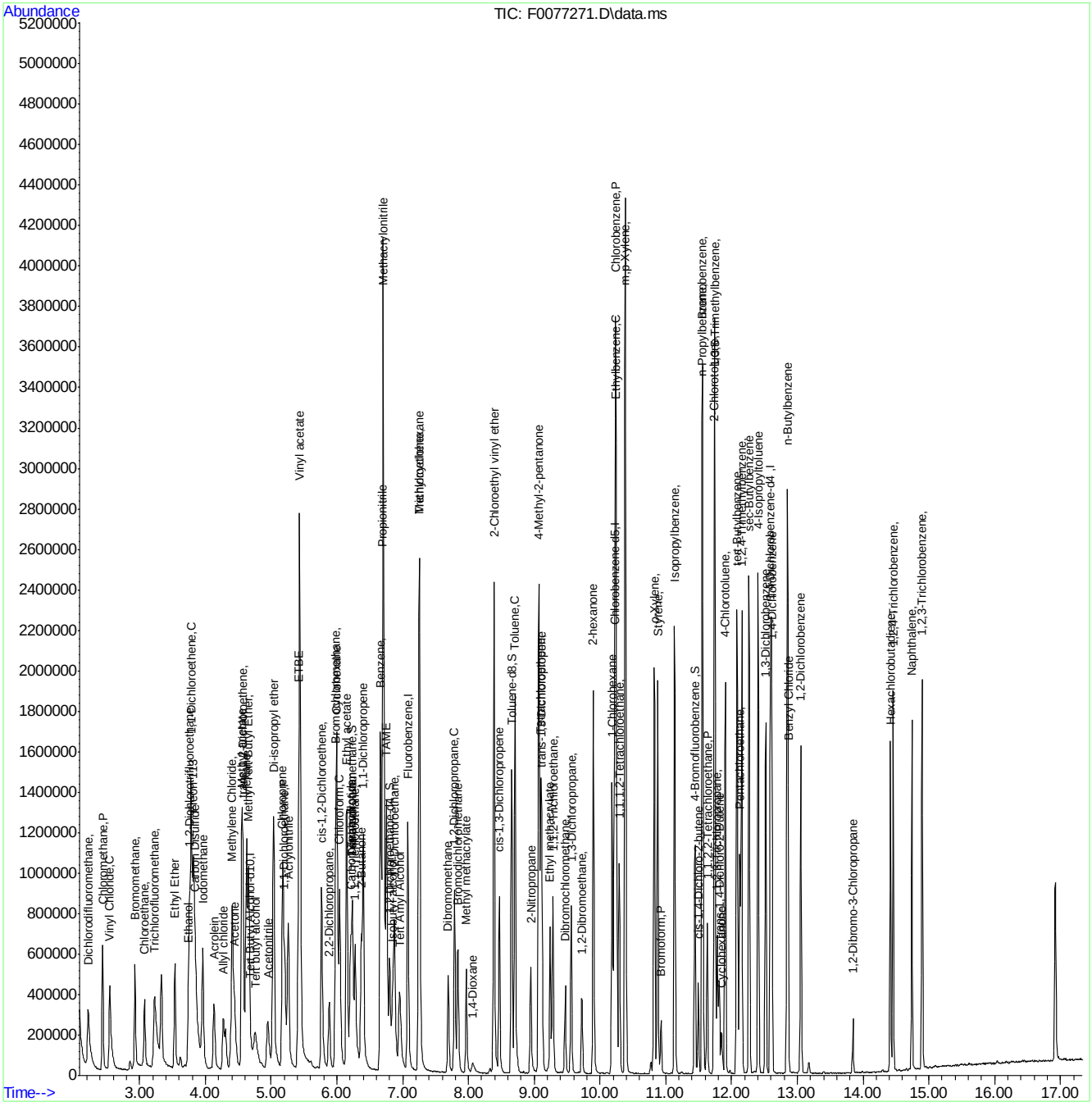
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077271.D
Acq On : 11 May 2016 9:51 am
Operator : ericp
Sample : CC2649-4 Inst : MSVOA9
Misc : MS33830,vf2651,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 12:05:53 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration



Manual Integration Approval Summary

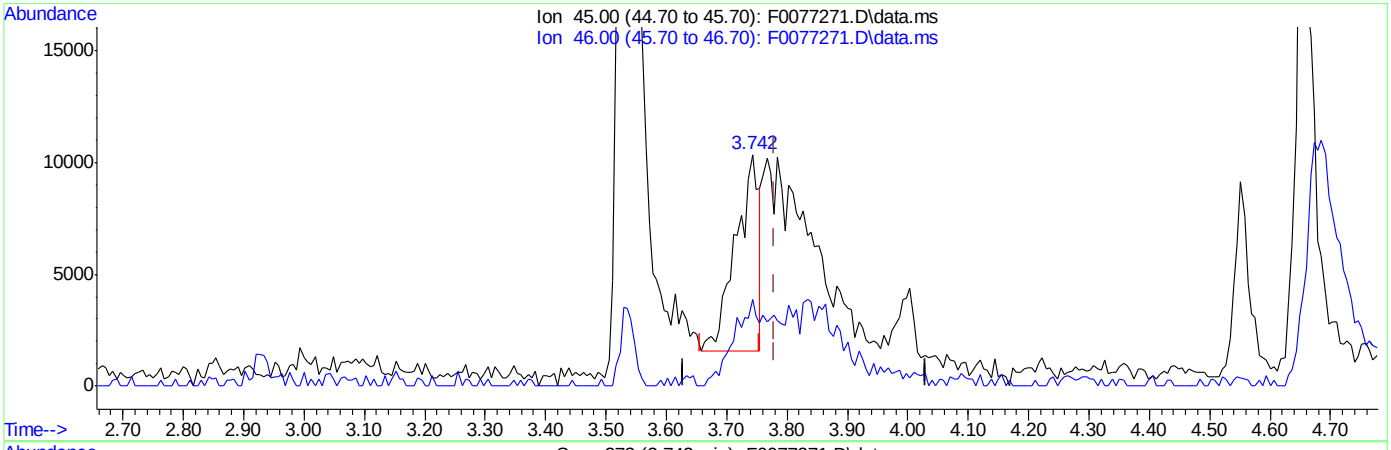
Sample Number:	VF2651-CC2649	**Method:**	SW846 8260B
Lab FileID:	F0077271.D	**Analyst approved:**	05/12/16 08:51 Eric Parrish
Injection Time:	05/11/16 09:51	**Supervisor approved:**	05/12/16 13:04 Juan Garcia

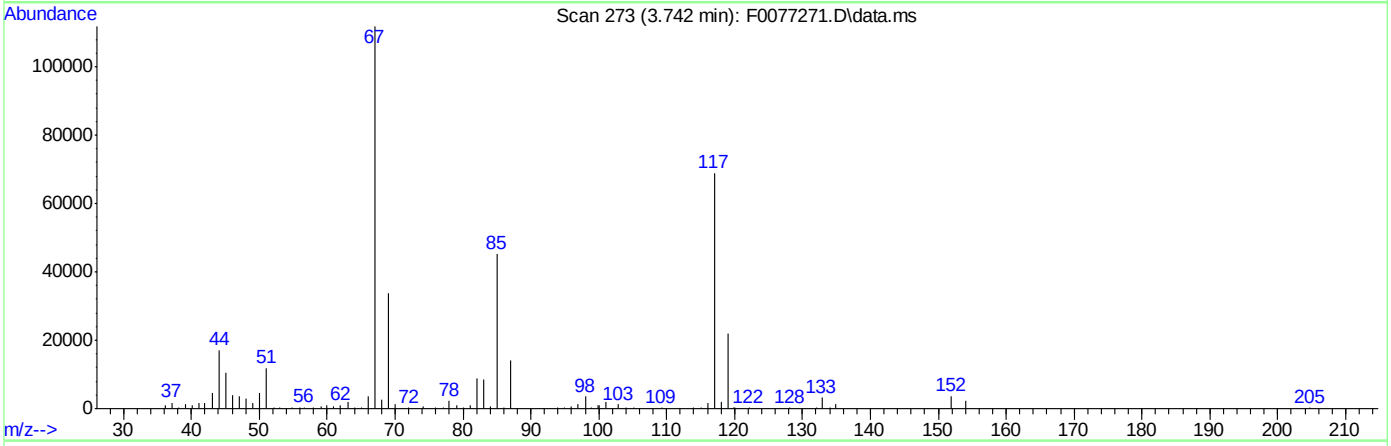
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.74	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077271.D
Acq On : 11 May 2016 9:51 am
Operator : ericp
Sample : CC2649-4 Inst : MSVOA9
Misc : MS33830,vf2651,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 12:05:22 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration





TIC: F0077271.D\data.ms

(104) Ethanol

3.742min (-0.037) 268.54ug/Kg

response 23372

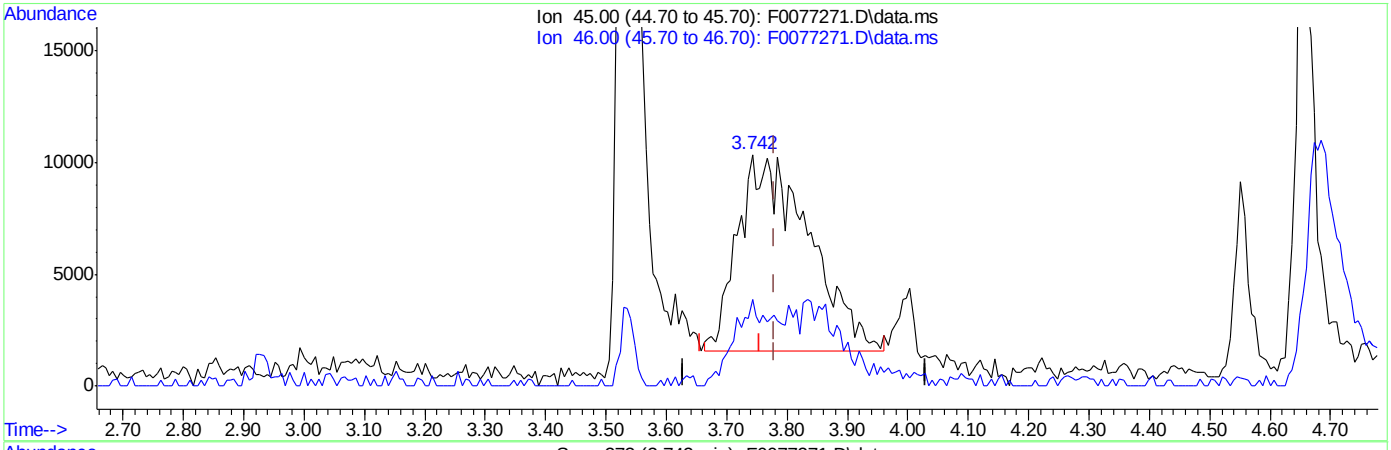
Ion	Exp%	Act%
45.00	100	100
46.00	35.00	44.07
0.00	0.00	0.00
0.00	0.00	0.00

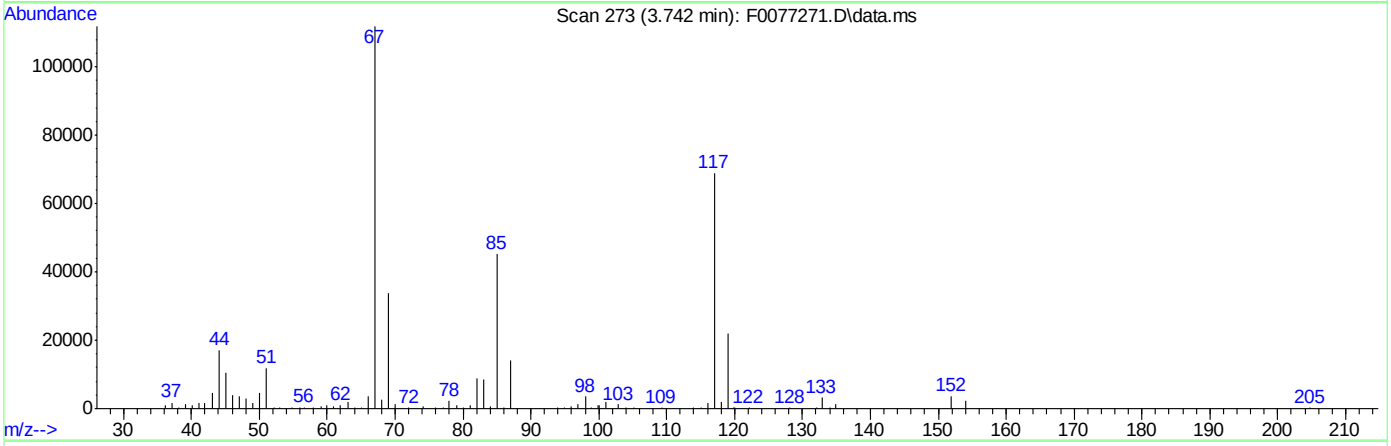
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077271.D
Acq On : 11 May 2016 9:51 am
Operator : ericp
Sample : CC2649-4 Inst : MSVOA9
Misc : MS33830,vf2651,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 11 12:05:22 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration





TIC: F0077271.D\data.ms

(104) Ethanol

3.742min (-0.037) 820.77ug/Kg m

response 71435

Ion	Exp%	Act%
45.00	100	100
46.00	35.00	37.39
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/12/16 13:04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077297.D
Acq On : 11 May 2016 7:51 pm
Operator : ericp
Sample : ECC2649-4 Inst : MSVOA9
Misc : MS33843,vf2651,5.00,,,5,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 12 08:13:08 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.082	96	740563	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.221	117	503189	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.594	152	261817	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.709	65	117359	250.00	ug/Kg	0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	216524	55.06	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.12%			
44) 1,2-Dichloroethane-d4	6.802	65	214710	52.28	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 104.56%			
55) Toluene-d8	8.658	98	670106	49.67	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.34%			
77) 4-Bromofluorobenzene	11.444	174	167630	45.92	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 91.84%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.215	85	376999	58.24	ug/Kg	98
3) Chloromethane	2.440	50	405432	57.99	ug/Kg	99
4) Vinyl Chloride	2.550	62	442767	58.64	ug/Kg	97
5) Bromomethane	2.933	94	245732	59.30	ug/Kg	93
6) Chloroethane	3.073	64	221886	71.63	ug/Kg	97
7) Trichlorofluoromethane	3.237	101	475264	58.19	ug/Kg	91
8) Ethyl Ether	3.535	59	197484	58.38	ug/Kg	90
9) 1,2-Dichlorotrifluoroe...	3.754	67	379130	59.50	ug/Kg	90
10) 1,1-Dichloroethene	3.785	61	567501	58.13	ug/Kg	89
11) Freon 113	3.815	101	398369	68.87	ug/Kg	96
12) Carbon Disulfide	3.846	76	1093710	58.98	ug/Kg	99
13) Iodomethane	3.961	142	733563	69.70	ug/Kg	99
14) Allyl chloride	4.271	41	260506	67.74	ug/Kg	95
15) Methylene Chloride	4.405	49	367451	53.98	ug/Kg	82
16) Acetone	4.454	43	403710	310.80	ug/Kg	98
17) Methyl acetate	4.563	43	850238	339.80	ug/Kg	94
18) trans-1,2-Dichloroethene	4.569	61	396971	58.01	ug/Kg	96
19) Hexane	4.618	56	237384	62.01	ug/Kg#	89
20) Methyl Tert Butyl Ether	4.661	73	734534	59.64	ug/Kg	88
21) Acetonitrile	4.959	41	294846	581.56	ug/Kg	99
22) Di-isopropyl ether	5.044	45	847637	56.46	ug/Kg	89
23) Chloroprene	5.172	53	443470	55.95	ug/Kg	93
24) 1,1-Dichloroethane	5.202	63	484659	57.56	ug/Kg	95
25) Acrylonitrile	5.269	53	430339	292.42	ug/Kg	92
26) ETBE	5.427	59	756416	55.19	ug/Kg	97
27) Vinyl acetate	5.446	43	2364493	286.75	ug/Kg	94
28) cis-1,2-Dichloroethene	5.768	96	296797	55.68	ug/Kg	96
29) 2,2-Dichloropropane	5.884	77	162666	58.02	ug/Kg	93
30) Bromochloromethane	5.987	128	139724	55.12	ug/Kg	90
31) Cyclohexane	5.993	56	553091	59.49	ug/Kg	98
32) Chloroform	6.048	83	474640	56.23	ug/Kg	97
33) Ethyl acetate	6.157	43	1176716	301.57	ug/Kg	97
34) Tetrahydrofuran	6.242	42	66430	53.31	ug/Kg	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077297.D
Acq On : 11 May 2016 7:51 pm
Operator : ericp
Sample : ECC2649-4 Inst : MSVOA9
Misc : MS33843,vf2651,5.00,,,5,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 12 08:13:08 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.212	117	321694	59.26	ug/Kg	95
37)	1,1,1-Trichloroethane	6.279	97	308632	60.82	ug/Kg	98
38)	2-Butanone	6.376	43	633919	279.33	ug/Kg	97
39)	1,1-Dichloropropene	6.401	75	346567	55.45	ug/Kg	96
40)	Propionitrile	6.699	54	337045	573.08	ug/Kg	89
41)	Methacrylonitrile	6.711	41	1485423	594.47	ug/Kg	96
42)	Benzene	6.662	78	999407	55.38	ug/Kg	95
43)	TAME	6.760	73	646314	51.03	ug/Kg	96
45)	1,2-Dichloroethane	6.875	62	308047	55.49	ug/Kg	91
46)	Trichloroethene	7.252	95	239237	49.70	ug/Kg	91
47)	Methylcyclohexane	7.252	83	459572	53.79	ug/Kg	97
48)	Dibromomethane	7.690	93	132148	50.48	ug/Kg	87
49)	1,2-Dichloropropane	7.788	63	239211	51.77	ug/Kg	91
50)	Bromodichloromethane	7.842	83	250547	48.85	ug/Kg	97
51)	Methyl methacrylate	7.970	41	166625	48.42	ug/Kg	91
52)	2-Chloroethyl vinyl ether	8.390	63	689876	259.29	ug/Kg	100
53)	cis-1,3-Dichloropropene	8.469	75	304577	47.62	ug/Kg	86
56)	Toluene	8.706	91	876269	51.19	ug/Kg	96
57)	2-Nitropropane	8.950	41	168052	214.68	ug/Kg	95
58)	4-Methyl-2-pentanone	9.071	43	1137042	282.79	ug/Kg	96
59)	trans-1,3-Dichloropropene	9.120	75	245537	50.22	ug/Kg#	78
60)	Tetrachloroethene	9.102	166	204795	48.79	ug/Kg	96
61)	Ethyl methacrylate	9.242	69	220251	48.90	ug/Kg	92
62)	1,1,2-Trichloroethane	9.284	83	155203	52.88	ug/Kg	95
63)	Dibromochloromethane	9.473	129	144980	48.15	ug/Kg	96
64)	1,3-Dichloropropane	9.564	76	292794	52.51	ug/Kg	94
65)	1,2-Dibromoethane	9.722	107	161929	48.14	ug/Kg	97
66)	2-hexanone	9.899	43	822221	275.42	ug/Kg	94
67)	1-Chlorohexane	10.185	91	233818	45.05	ug/Kg	90
68)	Ethylbenzene	10.239	91	925159	51.46	ug/Kg	97
69)	Chlorobenzene	10.239	112	520212	50.62	ug/Kg	90
70)	1,1,1,2-Tetrachloroethane	10.294	131	159051	49.82	ug/Kg	93
71)	m,p-Xylene	10.385	91	1332484	102.24	ug/Kg	93
72)	o-Xylene	10.823	91	678906	50.42	ug/Kg	94
73)	Styrene	10.878	104	491836	47.98	ug/Kg	95
74)	Bromoform	10.927	173	62639	56.69	ug/Kg	96
75)	Isopropylbenzene	11.134	105	820115	50.90	ug/Kg	95
78)	cis-1,4-Dichloro-2-butene	11.493	53	56434	47.98	ug/Kg#	77
79)	n-Propylbenzene	11.553	91	950780	48.17	ug/Kg	58
80)	Bromobenzene	11.560	156	197218	46.33	ug/Kg	100
81)	1,1,2,2-Tetrachloroethane	11.633	83	236894	53.53	ug/Kg	95
82)	1,3,5-Trimethylbenzene	11.748	105	701593	47.84	ug/Kg	84
83)	2-Chlorotoluene	11.736	91	651313	48.14	ug/Kg	91
84)	trans-1,4-Dichloro-2-B...	11.815	53	58577	47.48	ug/Kg	89
85)	1,2,3-Trichloropropane	11.785	110	59096	53.47	ug/Kg	90
86)	Cyclohexanone	11.852	55	54401	251.03	ug/Kg	85
87)	4-Chlorotoluene	11.906	91	541070	45.04	ug/Kg	93
88)	tert-Butylbenzene	12.083	91	449437	50.99	ug/Kg	95
89)	1,2,4-Trimethylbenzene	12.156	105	651449	46.57	ug/Kg	96
90)	Pentachloroethane	12.125	167	81287	42.10	ug/Kg	89

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077297.D
Acq On : 11 May 2016 7:51 pm
Operator : ericp
Sample : ECC2649-4 Inst : MSVOA9
Misc : MS33843,vf2651,5.00,,,5,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 12 08:13:08 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.265	105	934852	50.14	ug/Kg	96
92)	4-Isopropyltoluene	12.405	119	672650	45.20	ug/Kg	96
93)	1,3-Dichlorobenzene	12.521	146	324737	42.72	ug/Kg	93
94)	1,4-Dichlorobenzene	12.612	146	321662	41.27	ug/Kg	96
95)	n-Butylbenzene	12.849	92	356048	40.57	ug/Kg	85
96)	Benzyl Chloride	12.861	126	51039	36.18	ug/Kg#	68
97)	1,2-Dichlorobenzene	13.056	146	332378	44.82	ug/Kg	97
98)	1,2-Dibromo-3-Chloropr...	13.847	75	33903	47.77	ug/Kg#	79
99)	Hexachlorobutadiene	14.419	225	111637	41.84	ug/Kg	94
100)	1,2,4-Trichlorobenzene	14.461	180	172092	35.94	ug/Kg	96
101)	Naphthalene	14.741	128	565657	48.51	ug/Kg	99
102)	1,2,3-Trichlorobenzene	14.899	180	198492	42.02	ug/Kg	97
104)	Ethanol	3.821	45	64752m	945.35	ug/Kg	
105)	Acrolein	4.138	56	194509	210.52	ug/Kg	94
106)	Tert butyl alcohol	4.789	59	254584	479.14	ug/Kg	82
107)	Isobutyl alcohol	6.863	42	155547	908.48	ug/Kg	92
108)	Tert Amyl Alcohol	6.966	59	221173	424.52	ug/Kg	94
109)	1,4-Dioxane	8.068	88	46258	779.89	ug/Kg#	73

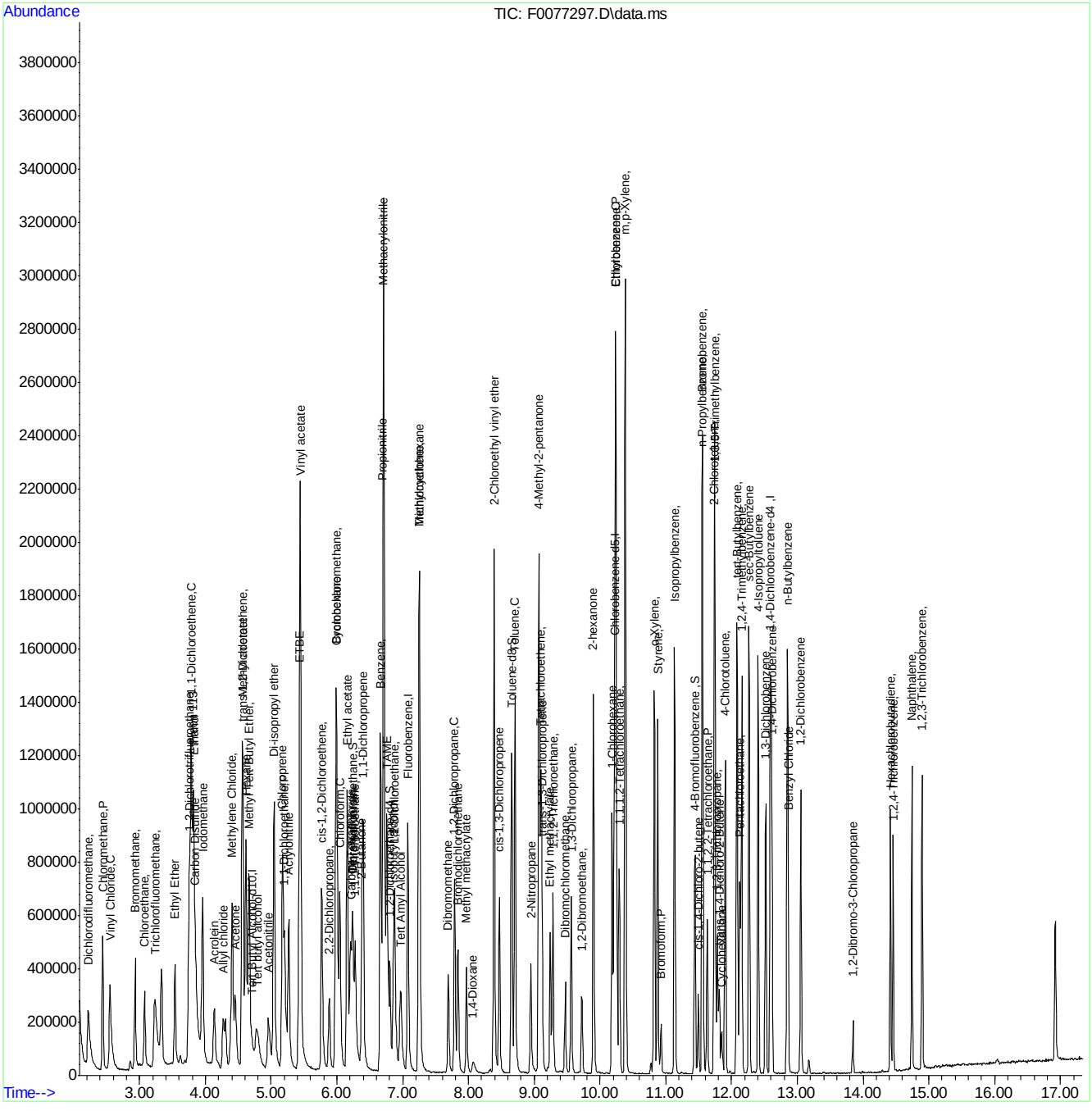
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077297.D
Acq On : 11 May 2016 7:51 pm
Operator : ericp
Sample : ECC2649-4 Inst : MSVOA9
Misc : MS33843,vf2651,5.00,,,5,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 12 08:13:08 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

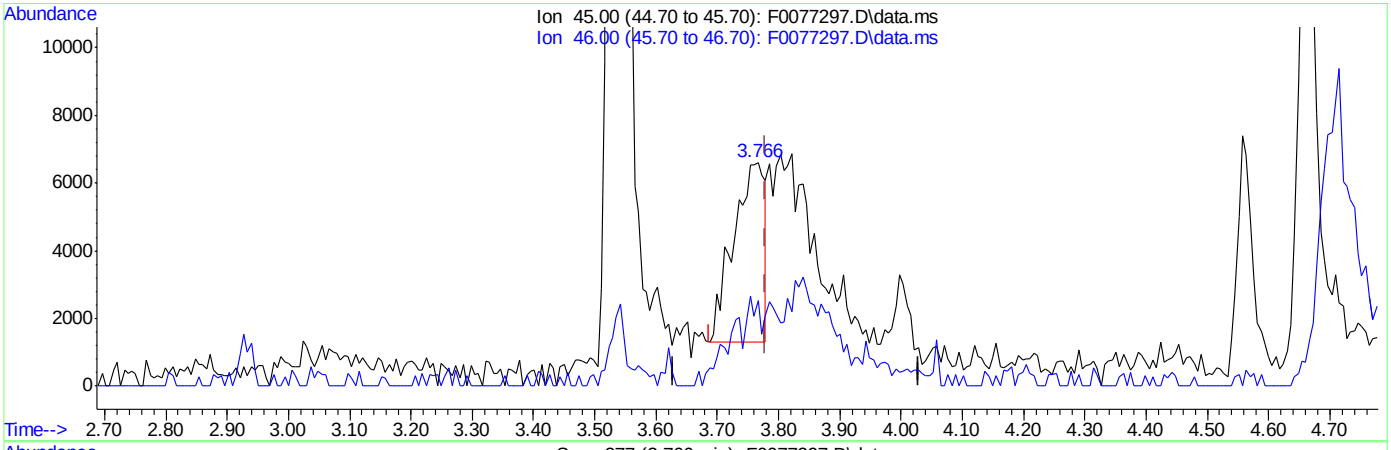
Sample Number:	VF2651-ECC2649	**Method:**	SW846 8260B
Lab FileID:	F0077297.D	**Analyst approved:**	05/12/16 08:51 Eric Parrish
Injection Time:	05/11/16 19:51	**Supervisor approved:**	05/12/16 13:04 Juan Garcia

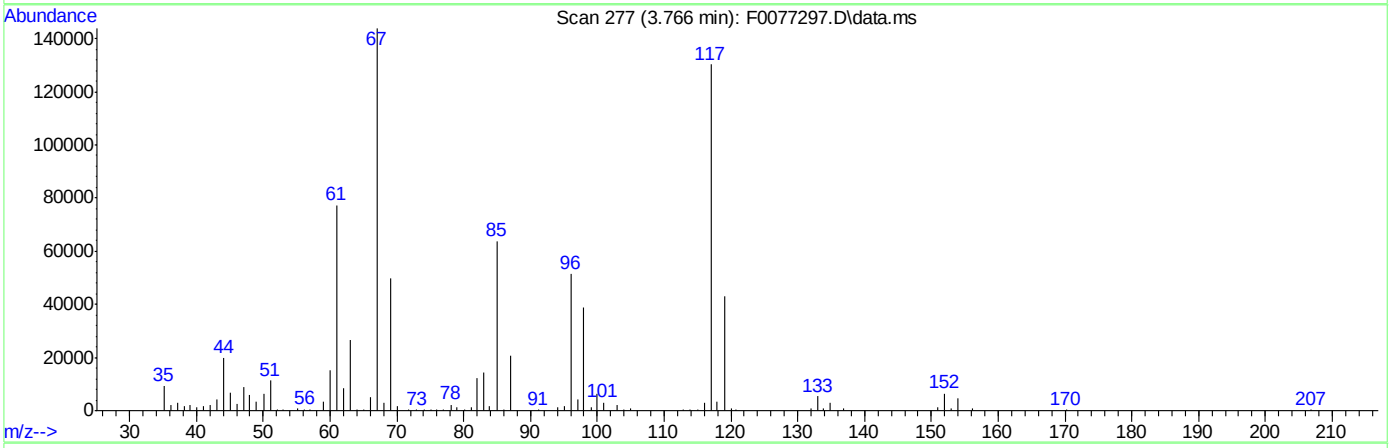
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.82	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077297.D
Acq On : 11 May 2016 7:51 pm
Operator : ericp
Sample : ECC2649-4 Inst : MSVOA9
Misc : MS33843,vf2651,5.00,,,5,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 12 08:12:49 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration





TIC: F0077297.D\data.ms

(104) Ethanol

3.766min (-0.013) 276.79ug/Kg

response 18959

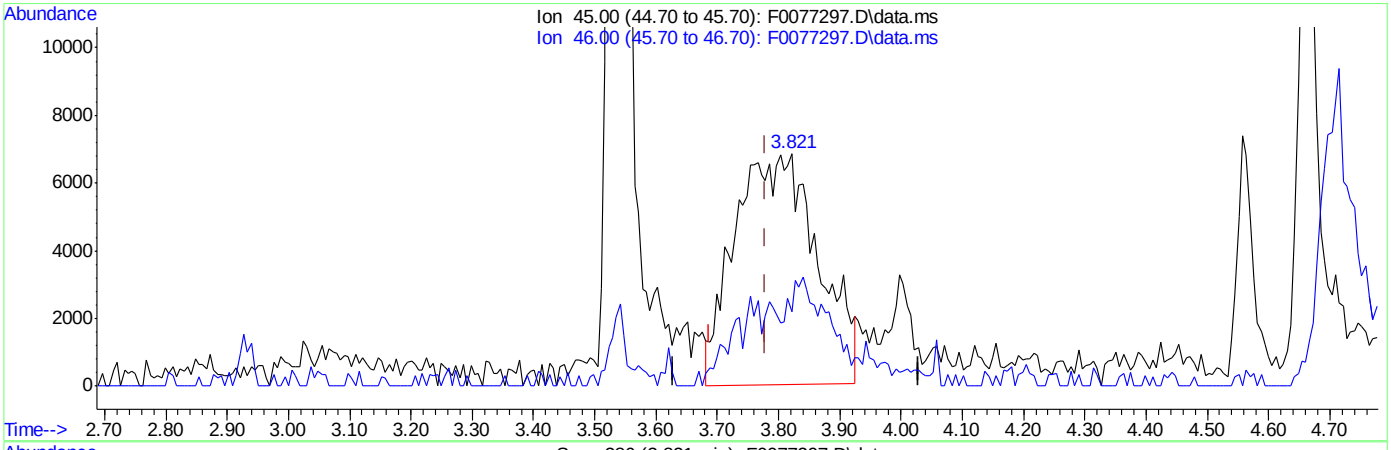
Ion	Exp%	Act%
45.00	100	100
46.00	35.00	37.48
0.00	0.00	0.00
0.00	0.00	0.00

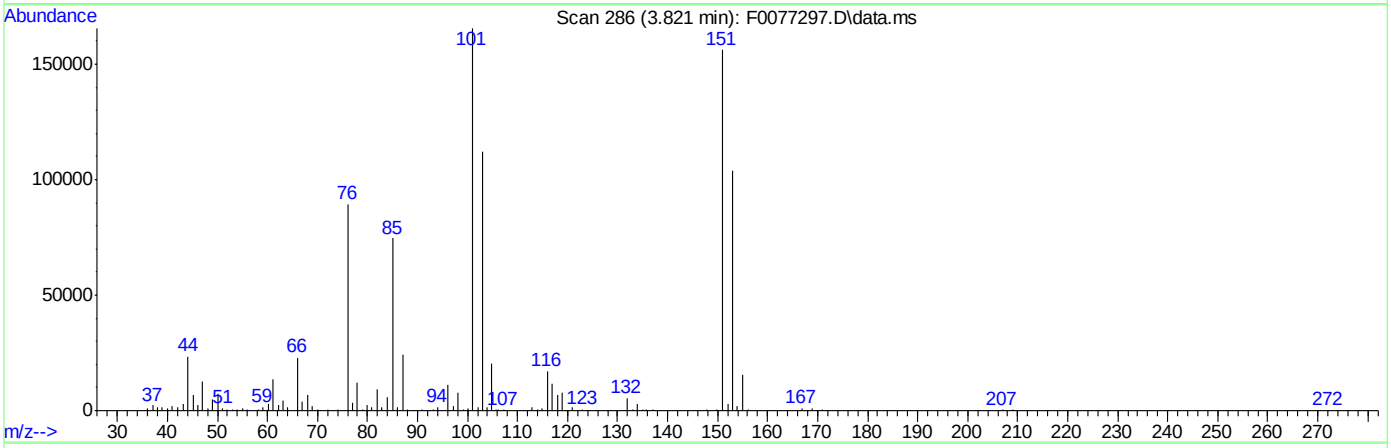
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\051116\
Data File : F0077297.D
Acq On : 11 May 2016 7:51 pm
Operator : ericp
Sample : ECC2649-4 Inst : MSVOA9
Misc : MS33843,vf2651,5.00,,,5,,
ALS Vial : 32 Sample Multiplier: 1

Quant Time: May 12 08:12:49 2016
Quant Method : C:\msdchem\1\METHODS\050916APP9-F.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 09 12:27:08 2016
Response via : Initial Calibration





(104) Ethanol

3.821min (+0.042) 945.35ug/Kg m

response 64752

Ion	Exp%	Act%
45.00	100	100
46.00	35.00	32.15
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:19:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.762	96	1497519	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1089904	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	603459	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	91725	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	373911	48.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.72%			
46) 1,2-Dichloroethane-d4	7.482	65	459347	49.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.36%			
57) Toluene-d8	9.301	98	1476291	51.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.36%			
79) 4-Bromofluorobenzene	12.057	95	555679	47.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.676	85	6775	0.68	ug/L	95
3) Chloromethane	2.895	50	10042	1.02	ug/L	86
4) Vinyl Chloride	3.029	62	9163	0.89	ug/L	84
5) 1,3-Butadiene	3.029	54	7059	0.86	ug/L	85
6) Bromomethane	3.455	94	9881m	1.44	ug/L	
7) Chloroethane	3.607	64	6448	1.12	ug/L	90
8) Trichlorofluoromethane	3.850	101	10448m	0.79	ug/L	
9) Ethyl Ether	4.130	59	5459	0.88	ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.355	67	8916	1.01	ug/L #	71
11) 1,1-Dichloroethene	4.398	61	11350	1.02	ug/L	94
12) Freon 113	4.458	101	7347	0.99	ug/L #	83
13) Carbon Disulfide	4.471	76	21866	0.93	ug/L	92
14) Iodomethane	4.586	142	12203	1.00	ug/L	95
15) Allyl chloride	4.927	41	8571	0.82	ug/L	96
16) Methylene Chloride	5.042	49	19069	1.87	ug/L	92
17) Acetone	5.091	58	2092	4.99	ug/L	92
18) Methyl acetate	5.213	74	4128	4.66	ug/L #	49
19) trans-1,2-Dichloroethene	5.231	61	9877	0.91	ug/L	95
20) Hexane	5.310	56	6156	0.92	ug/L #	69
21) Methyl Tert Butyl Ether	5.334	73	19763	0.98	ug/L	85
22) Acetonitrile	5.608	40	4443	14.08	ug/L #	56
23) Di-isopropyl ether	5.724	45	23214	1.00	ug/L	83
24) Chloroprene	5.876	53	9643	0.84	ug/L	85
25) 1,1-Dichloroethane	5.900	63	14012	1.00	ug/L	98
26) Acrylonitrile	5.949	53	11139	5.74	ug/L	97
27) ETBE	6.113	59	21083	0.90	ug/L	79
28) Vinyl acetate	6.125	43	55946	4.80	ug/L	97
29) cis-1,2-Dichloroethene	6.478	96	8540	0.96	ug/L	93
30) 2,2-Dichloropropane	6.606	77	10698	1.02	ug/L	86
31) Bromochloromethane	6.691	128	3551	0.86	ug/L #	79
32) Cyclohexane	6.734	56	12273	0.98	ug/L #	81
33) Chloroform	6.746	83	15433	1.01	ug/L	93
34) Ethyl acetate	6.825	43	23574	5.07	ug/L	90

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:19:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.947	42	3124	2.34 ug/L #	71
37) Carbon Tetrachloride	6.934	117	9892	0.93 ug/L #	81
38) 1,1,1-Trichloroethane	6.995	97	12445	0.97 ug/L	92
39) 2-Butanone	7.050	43	12221	5.99 ug/L	98
40) 1,1-Dichloropropene	7.105	75	10270	0.96 ug/L	93
41) tert-Butyl Formate	7.190	59	37883	8.06 ug/L #	33
42) Propionitrile	7.348	54	7401	10.45 ug/L #	64
43) Methacrylonitrile	7.366	41	33814	10.07 ug/L	88
44) Benzene	7.360	78	31721	0.98 ug/L	85
45) TAME	7.439	73	20156	0.98 ug/L	94
47) 1,2-Dichloroethane	7.549	62	12849	1.15 ug/L	88
48) Trichloroethene	7.944	95	8203	0.96 ug/L	96
49) Methylcyclohexane	7.950	83	12273	0.91 ug/L	93
50) Dibromomethane	8.370	93	4922	1.10 ug/L	92
51) 1,2-Dichloropropane	8.455	63	8279	1.04 ug/L	93
52) Bromodichloromethane	8.504	83	9529	0.93 ug/L	93
53) Methyl methacrylate	8.607	41	3207	0.75 ug/L #	72
54) 2-Chloroethyl vinyl ether	9.015	63	17389	4.02 ug/L	93
55) cis-1,3-Dichloropropene	9.118	75	9664	0.83 ug/L	98
58) Toluene	9.356	91	36026	1.05 ug/L	93
59) 2-Nitropropane	9.556	41	4628	3.48 ug/L	84
60) 4-Methyl-2-pentanone	9.678	43	22365	4.71 ug/L	96
61) trans-1,3-Dichloropropene	9.745	75	7916	0.84 ug/L	90
62) Tetrachloroethene	9.757	166	8590	0.93 ug/L	86
63) Ethyl methacrylate	9.848	69	5248	0.64 ug/L	93
64) 1,1,2-Trichloroethane	9.903	83	5205	0.97 ug/L	87
65) Dibromochloromethane	10.110	129	6228	0.91 ug/L	85
66) 1,3-Dichloropropane	10.189	76	11243	1.03 ug/L	95
67) 1,2-Dibromoethane	10.378	107	6238	1.07 ug/L #	60
68) 2-hexanone	10.505	43	13884	4.29 ug/L	77
69) 1-Chlorohexane	10.797	91	8158	0.81 ug/L #	83
70) Ethylbenzene	10.864	91	39232	0.97 ug/L	97
71) Chlorobenzene	10.864	112	23328	1.06 ug/L	91
72) 1,1,1,2-Tetrachloroethane	10.913	131	6466	0.93 ug/L #	75
73) m,p-Xylene	11.004	91	54337	1.71 ug/L	98
74) o-Xylene	11.442	91	27064	0.95 ug/L	95
75) Styrene	11.491	104	16955	0.80 ug/L	94
76) Bromoform	11.552	173	3073	0.82 ug/L	78
77) Isopropylbenzene	11.746	105	29354	0.80 ug/L	96
80) cis-1,4-Dichloro-2-butene	12.099	53	1716	1.08 ug/L #	39
81) n-Propylbenzene	12.166	91	39032	0.93 ug/L	97
82) Bromobenzene	12.191	156	9314	0.95 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.221	83	7603	1.06 ug/L	95
84) 1,3,5-Trimethylbenzene	12.343	105	25826	0.82 ug/L	93
85) 2-Chlorotoluene	12.355	91	29015	0.95 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.410	53	1269	0.87 ug/L #	57
87) 1,2,3-Trichloropropane	12.385	110	1795	0.91 ug/L	75
88) Cyclohexanone	12.452	55	686	5.72 ug/L #	65
89) 4-Chlorotoluene	12.525	91	24461	0.87 ug/L	95
90) a-Methyl Styrene	12.610	118	7205	0.82 ug/L #	90

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:19:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	16548	0.90	ug/L	96
92) 1,2,4-Trimethylbenzene	12.756	105	25129	0.80	ug/L	93
93) Pentachloroethane	12.738	167	4995	1.16	ug/L #	88
94) sec-Butylbenzene	12.872	105	33797	0.91	ug/L	95
95) 4-Isopropyltoluene	13.000	119	26896	0.86	ug/L	97
96) 1,3-Dichlorobenzene	13.140	146	16834	1.01	ug/L	86
97) 1,4-Dichlorobenzene	13.225	146	19396	1.09	ug/L	86
98) n-Butylbenzene	13.438	92	14315	0.80	ug/L	94
99) Benzyl Chloride	13.450	126	1193	0.60	ug/L #	6
100) 1,2-Dichlorobenzene	13.651	146	16386	1.08	ug/L	89
101) 1,2-Dibromo-3-Chloropr...	14.387	75	1127	1.88	ug/L #	47
102) Hexachlorobutadiene	14.934	225	6492	1.35	ug/L	94
103) 1,2,4-Trichlorobenzene	14.977	180	9990	1.91	ug/L	94
104) Naphthalene	15.263	128	14240	2.35	ug/L	90
105) 1,2,3-Trichlorobenzene	15.433	180	10129	3.18	ug/L	95
108) acrolein	4.756	56	4435	4.39	ug/L	82
109) Tert Butyl Alcohol	5.383	59	4329	10.16	ug/L	82
110) tert Amyl alcohol	7.579	59	2592	8.16	ug/L #	63
111) Isobutyl alcohol	7.433	42	1712	9.78	ug/L #	83
112) 1,4-Dioxane	8.674	88	807	19.87	ug/L #	29
113) 3,3-Dimethyl-1-butanol	10.438	57	16639	48.08	ug/L	89

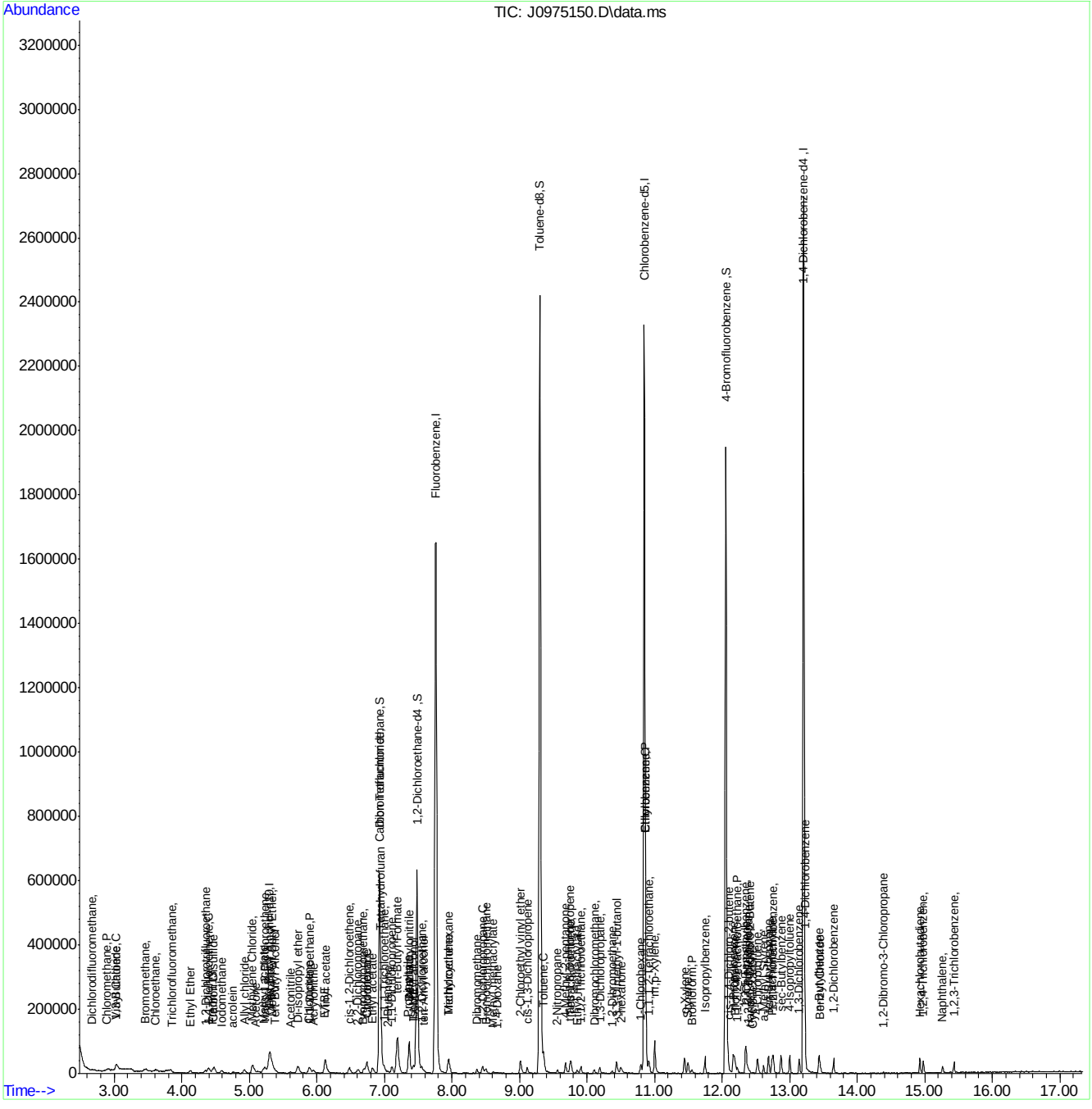
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:19:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

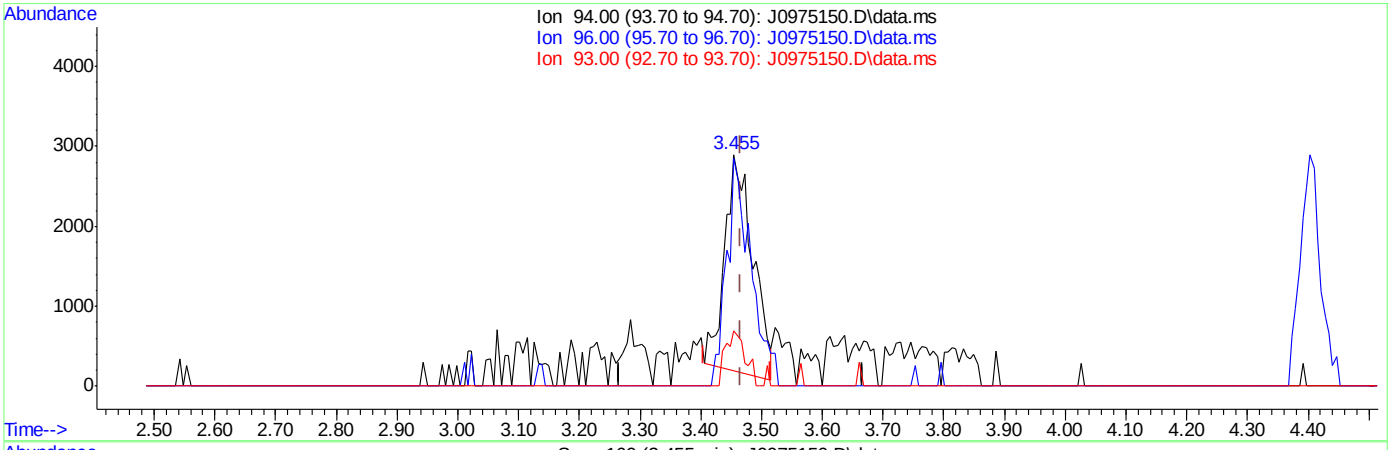
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975150.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 14:17	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

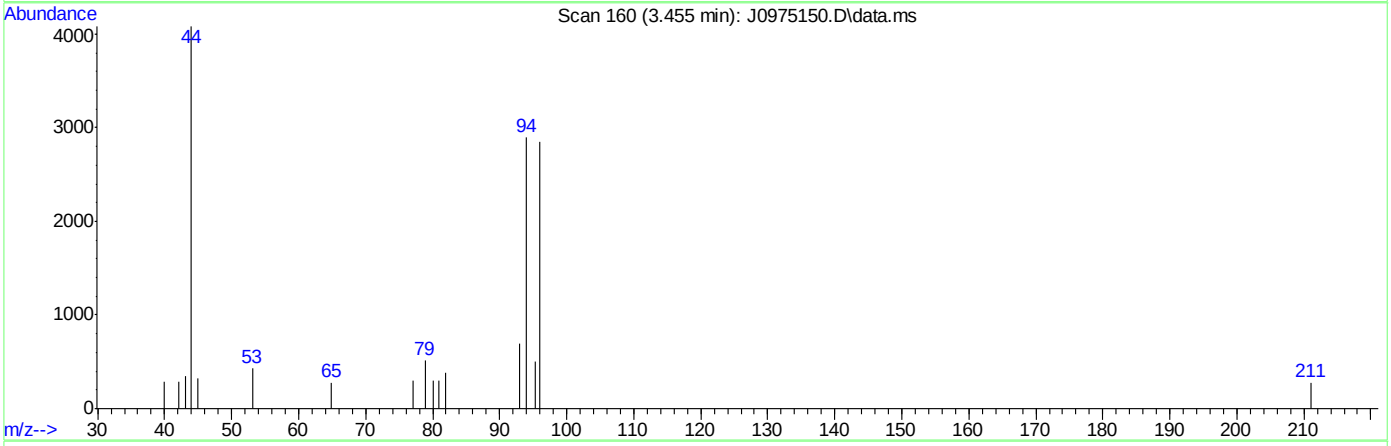
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Bromide	74-83-9		3.45	Poor instrument integration
Trichlorofluoromethane	75-69-4		3.85	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:17:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975150.D\data.ms

(6) Bromomethane ( )

3.455min (-0.012) 1.27ug/L

response 8695

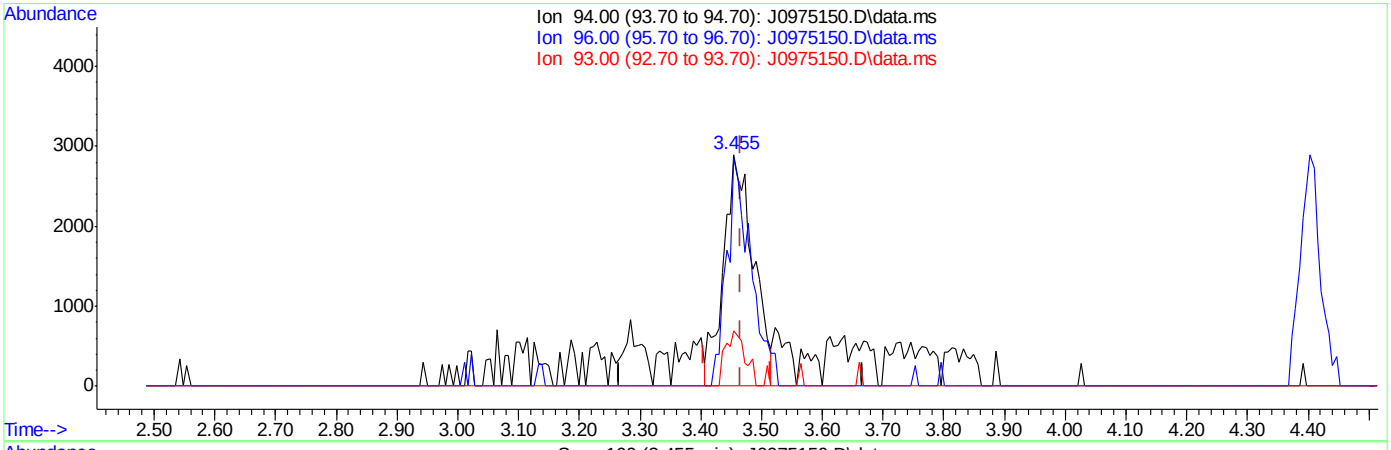
Ion	Exp%	Act%
94.00	100	100
96.00	91.30	108.90
93.00	18.00	26.71
0.00	0.00	0.00

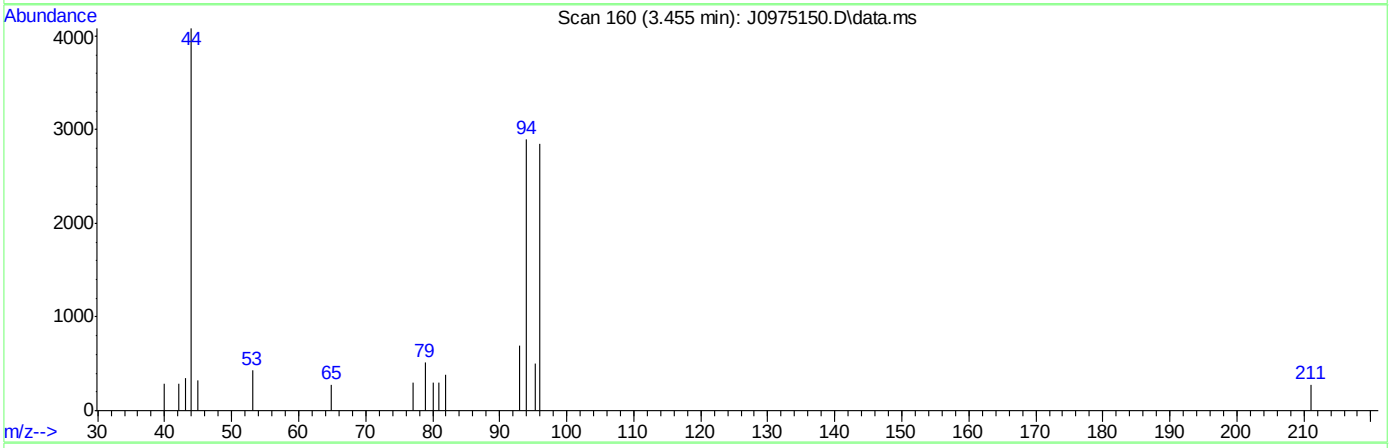
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:17:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975150.D\data.ms

(6) Bromomethane ( )

3.455min (-0.012) 1.44ug/L m

response 9881

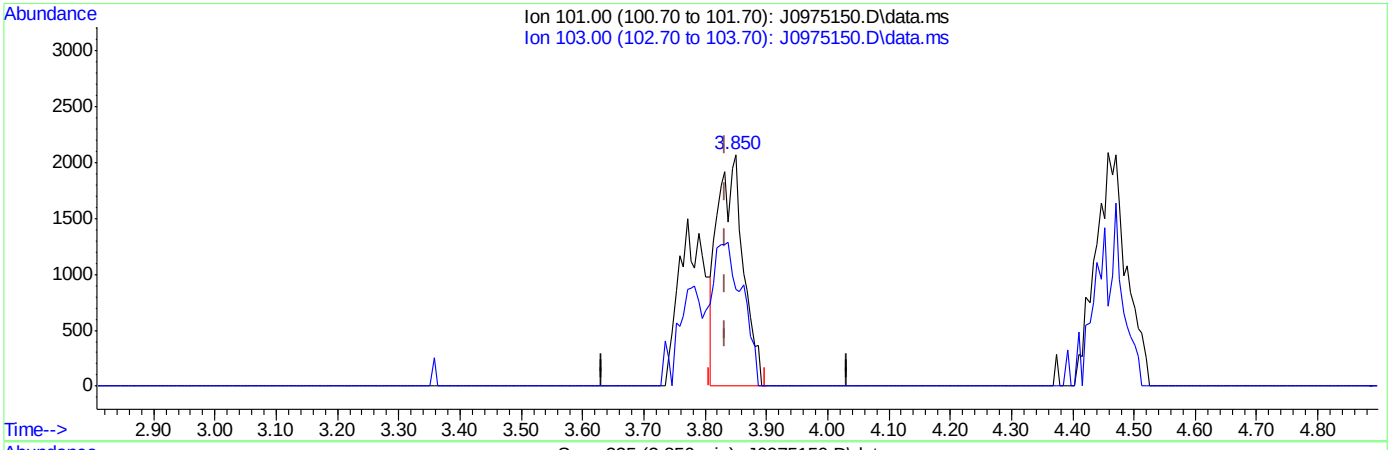
Ion	Exp%	Act%
94.00	100	100
96.00	91.30	98.31
93.00	18.00	24.11
0.00	0.00	0.00

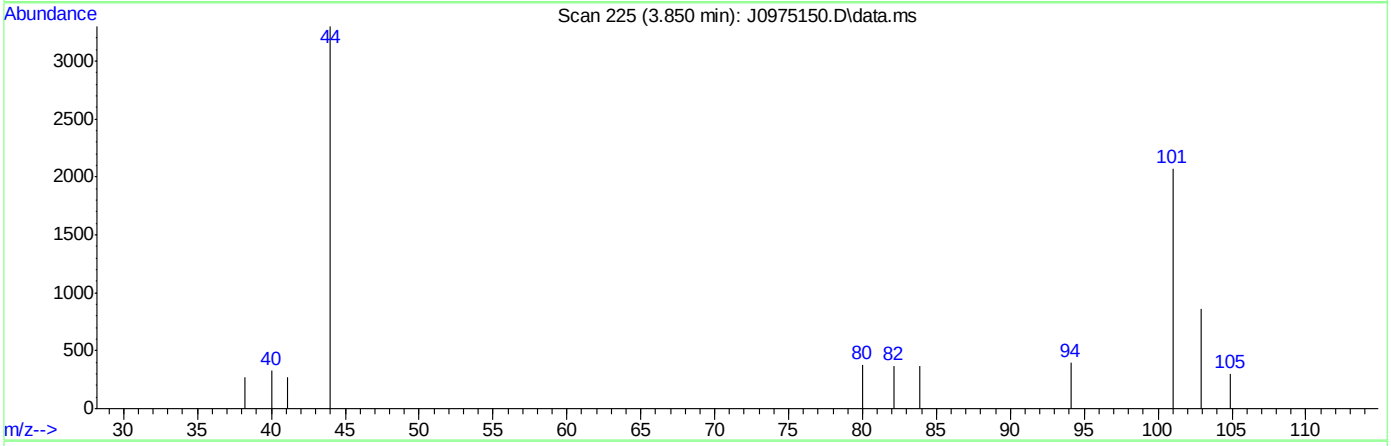
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:17:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975150.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.018) 0.46ug/L

response 6075

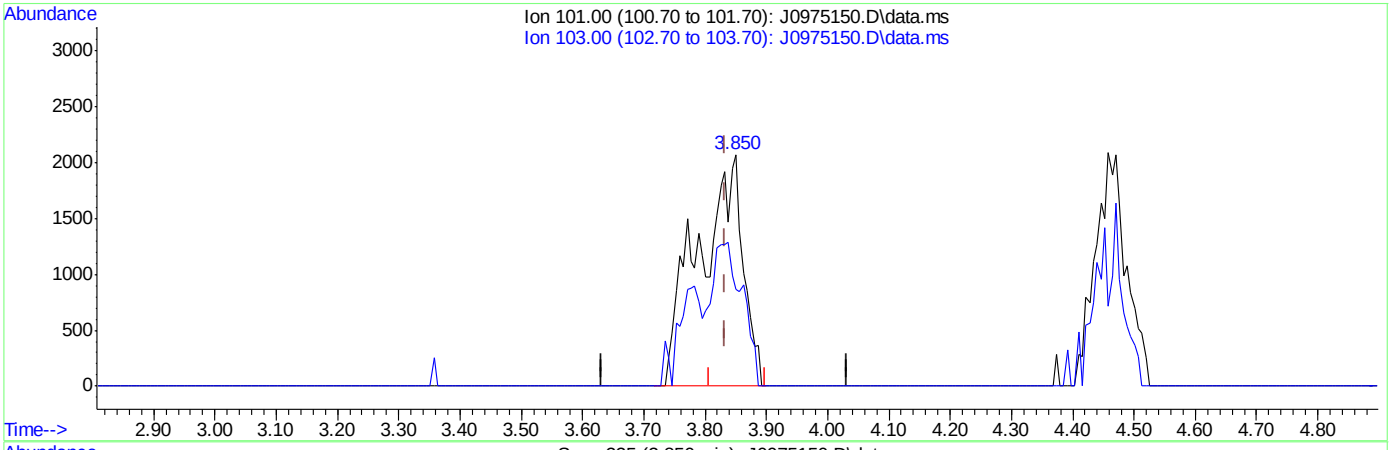
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	41.68
0.00	0.00	0.00
0.00	0.00	0.00

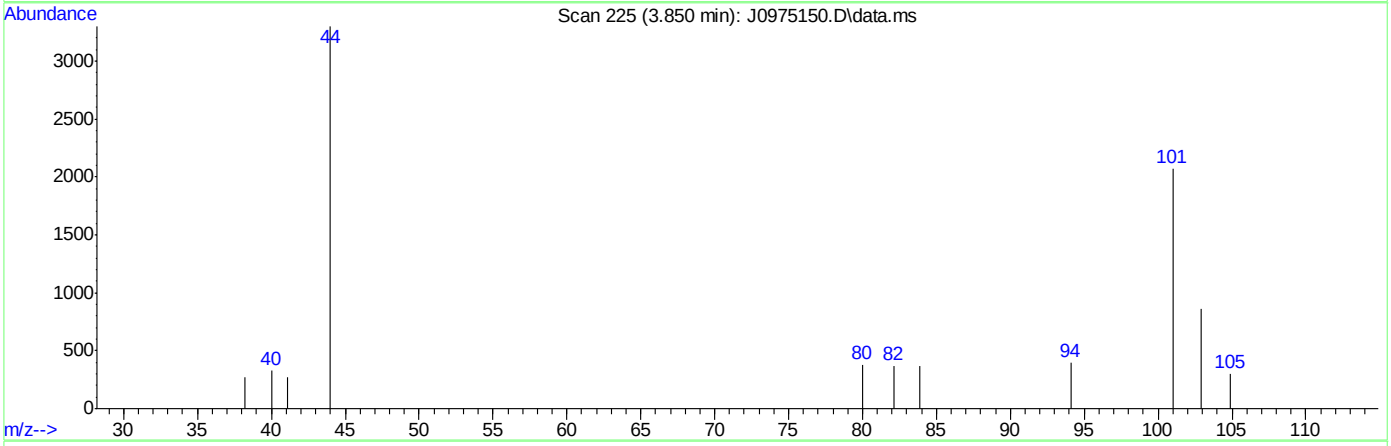
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:17:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975150.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.018) 0.79ug/L m

response 10448

Ion	Exp%	Act%
101.00	100	100
103.00	63.50	41.68
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:20:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1497867	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1105198	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	620103	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	80218	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	381652	49.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.72%			
46) 1,2-Dichloroethane-d4	7.482	65	470179	50.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.68%			
57) Toluene-d8	9.301	98	1489073	50.91	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.82%			
79) 4-Bromofluorobenzene	12.057	95	563252	47.30	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	45739	4.57	ug/L	97
3) Chloromethane	2.883	50	45096	4.58	ug/L	99
4) Vinyl Chloride	3.035	62	50250	4.89	ug/L	100
5) 1,3-Butadiene	3.023	54	36147	4.38	ug/L	91
6) Bromomethane	3.455	94	39184	5.80	ug/L	92
7) Chloroethane	3.613	64	26261	4.61	ug/L	95
8) Trichlorofluoromethane	3.832	101	61441m	4.67	ug/L	
9) Ethyl Ether	4.118	59	27596	4.44	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.349	67	40875	4.65	ug/L	94
11) 1,1-Dichloroethene	4.391	61	48452	4.36	ug/L	95
12) Freon 113	4.464	101	35541	4.79	ug/L	92
13) Carbon Disulfide	4.471	76	101564	4.31	ug/L	100
14) Iodomethane	4.580	142	55852	4.59	ug/L	92
15) Allyl chloride	4.921	41	48119	4.60	ug/L	92
16) Methylene Chloride	5.042	49	51479	5.05	ug/L	94
17) Acetone	5.073	58	12734	30.31	ug/L	91
18) Methyl acetate	5.201	74	21874	24.70	ug/L #	77
19) trans-1,2-Dichloroethene	5.231	61	45857	4.24	ug/L	95
20) Hexane	5.298	56	30261	4.50	ug/L #	90
21) Methyl Tert Butyl Ether	5.334	73	92687	4.59	ug/L	79
22) Acetonitrile	5.596	40	21113	67.20	ug/L #	86
23) Di-isopropyl ether	5.718	45	102600	4.41	ug/L	96
24) Chloroprene	5.876	53	48399	4.22	ug/L	95
25) 1,1-Dichloroethane	5.894	63	61532	4.39	ug/L	98
26) Acrylonitrile	5.931	53	47478	24.45	ug/L	96
27) ETBE	6.119	59	102089	4.38	ug/L	97
28) Vinyl acetate	6.113	43	287674	24.68	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	40640	4.55	ug/L	96
30) 2,2-Dichloropropane	6.600	77	45028	4.28	ug/L	98
31) Bromochloromethane	6.691	128	19294	4.65	ug/L	97
32) Cyclohexane	6.728	56	54509	4.36	ug/L	93
33) Chloroform	6.740	83	69984	4.58	ug/L	96
34) Ethyl acetate	6.813	43	116131	24.95	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:20:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.928	42	7754	5.81 ug/L	91
37) Carbon Tetrachloride	6.928	117	46777	4.41 ug/L	94
38) 1,1,1-Trichloroethane	6.995	97	56130	4.36 ug/L	88
39) 2-Butanone	7.032	43	43633	21.39 ug/L	98
40) 1,1-Dichloropropene	7.105	75	46613	4.37 ug/L	98
41) tert-Butyl Formate	7.190	59	191737	40.76 ug/L #	67
42) Propionitrile	7.342	54	32717	46.19 ug/L #	73
43) Methacrylonitrile	7.360	41	178244	53.47 ug/L	96
44) Benzene	7.360	78	145505	4.48 ug/L	97
45) TAME	7.433	73	92220	4.49 ug/L	89
47) 1,2-Dichloroethane	7.549	62	52574	4.69 ug/L	96
48) Trichloroethene	7.938	95	36327	4.24 ug/L	93
49) Methylcyclohexane	7.950	83	59605	4.41 ug/L	95
50) Dibromomethane	8.364	93	21077	4.73 ug/L	93
51) 1,2-Dichloropropane	8.449	63	35727	4.47 ug/L	95
52) Bromodichloromethane	8.498	83	44773	4.35 ug/L	96
53) Methyl methacrylate	8.601	41	19555	4.55 ug/L	95
54) 2-Chloroethyl vinyl ether	9.009	63	90559	20.99 ug/L	99
55) cis-1,3-Dichloropropene	9.112	75	47740	4.11 ug/L	93
58) Toluene	9.356	91	150830	4.34 ug/L	98
59) 2-Nitropropane	9.563	41	24627	18.28 ug/L	88
60) 4-Methyl-2-pentanone	9.678	43	110229	22.87 ug/L	97
61) trans-1,3-Dichloropropene	9.739	75	40521	4.26 ug/L	93
62) Tetrachloroethene	9.757	166	37799	4.02 ug/L	96
63) Ethyl methacrylate	9.842	69	33308	4.03 ug/L	93
64) 1,1,2-Trichloroethane	9.903	83	24194	4.45 ug/L	96
65) Dibromochloromethane	10.104	129	29798	4.27 ug/L	97
66) 1,3-Dichloropropane	10.189	76	49657	4.47 ug/L	95
67) 1,2-Dibromoethane	10.366	107	25707	4.34 ug/L	99
68) 2-hexanone	10.493	43	69997	21.35 ug/L	96
69) 1-Chlorohexane	10.797	91	40374	3.98 ug/L	96
70) Ethylbenzene	10.864	91	175498	4.31 ug/L	100
71) Chlorobenzene	10.864	112	99467	4.45 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.913	131	32015	4.52 ug/L	94
73) m,p-Xylene	10.998	91	257172	8.07 ug/L	97
74) o-Xylene	11.436	91	129261	4.46 ug/L	92
75) Styrene	11.491	104	89606	4.18 ug/L	99
76) Bromoform	11.552	173	16553	4.34 ug/L	94
77) Isopropylbenzene	11.747	105	150179	4.07 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.087	53	9412	5.79 ug/L #	83
81) n-Propylbenzene	12.166	91	186692	4.32 ug/L	97
82) Bromobenzene	12.185	156	43521	4.34 ug/L	93
83) 1,1,2,2-Tetrachloroethane	12.221	83	35300	4.80 ug/L	96
84) 1,3,5-Trimethylbenzene	12.343	105	137372	4.27 ug/L	100
85) 2-Chlorotoluene	12.355	91	136546	4.36 ug/L	93
86) trans-1,4-Dichloro-2-B...	12.404	53	7220	4.78 ug/L #	56
87) 1,2,3-Trichloropropane	12.385	110	9078	4.49 ug/L	91
88) Cyclohexanone	12.458	55	2885	23.41 ug/L #	85
89) 4-Chlorotoluene	12.519	91	121317	4.22 ug/L	96
90) a-Methyl Styrene	12.610	118	37805	4.21 ug/L	96

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:20:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	77635	4.09	ug/L	92
92) 1,2,4-Trimethylbenzene	12.756	105	142610	4.42	ug/L	96
93) Pentachloroethane	12.738	167	23873	5.36	ug/L	96
94) sec-Butylbenzene	12.872	105	166261	4.33	ug/L	99
95) 4-Isopropyltoluene	13.000	119	138055	4.32	ug/L	95
96) 1,3-Dichlorobenzene	13.140	146	75534	4.40	ug/L	95
97) 1,4-Dichlorobenzene	13.219	146	82699	4.53	ug/L	86
98) n-Butylbenzene	13.432	92	76297	4.17	ug/L	97
99) Benzyl Chloride	13.450	126	7780	3.78	ug/L #	84
100) 1,2-Dichlorobenzene	13.645	146	74335	4.76	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	4498	7.21	ug/L	88
102) Hexachlorobutadiene	14.928	225	31359	6.31	ug/L	98
103) 1,2,4-Trichlorobenzene	14.977	180	51743	9.47	ug/L	97
104) Naphthalene	15.263	128	71283	10.99	ug/L	99
105) 1,2,3-Trichlorobenzene	15.433	180	45604	13.31	ug/L	98
107) Ethanol	4.282	45	4538m	130.44	ug/L	
108) acrolein	4.756	56	23167	26.19	ug/L	87
109) Tert Butyl Alcohol	5.371	59	20425	54.82	ug/L #	64
110) tert Amyl alcohol	7.579	59	12035	43.30	ug/L #	76
111) Isobutyl alcohol	7.458	42	14047	92.39	ug/L #	89
112) 1,4-Dioxane	8.674	88	2924	82.31	ug/L	91
113) 3,3-Dimethyl-1-butanol	10.439	57	72142	236.23	ug/L	99

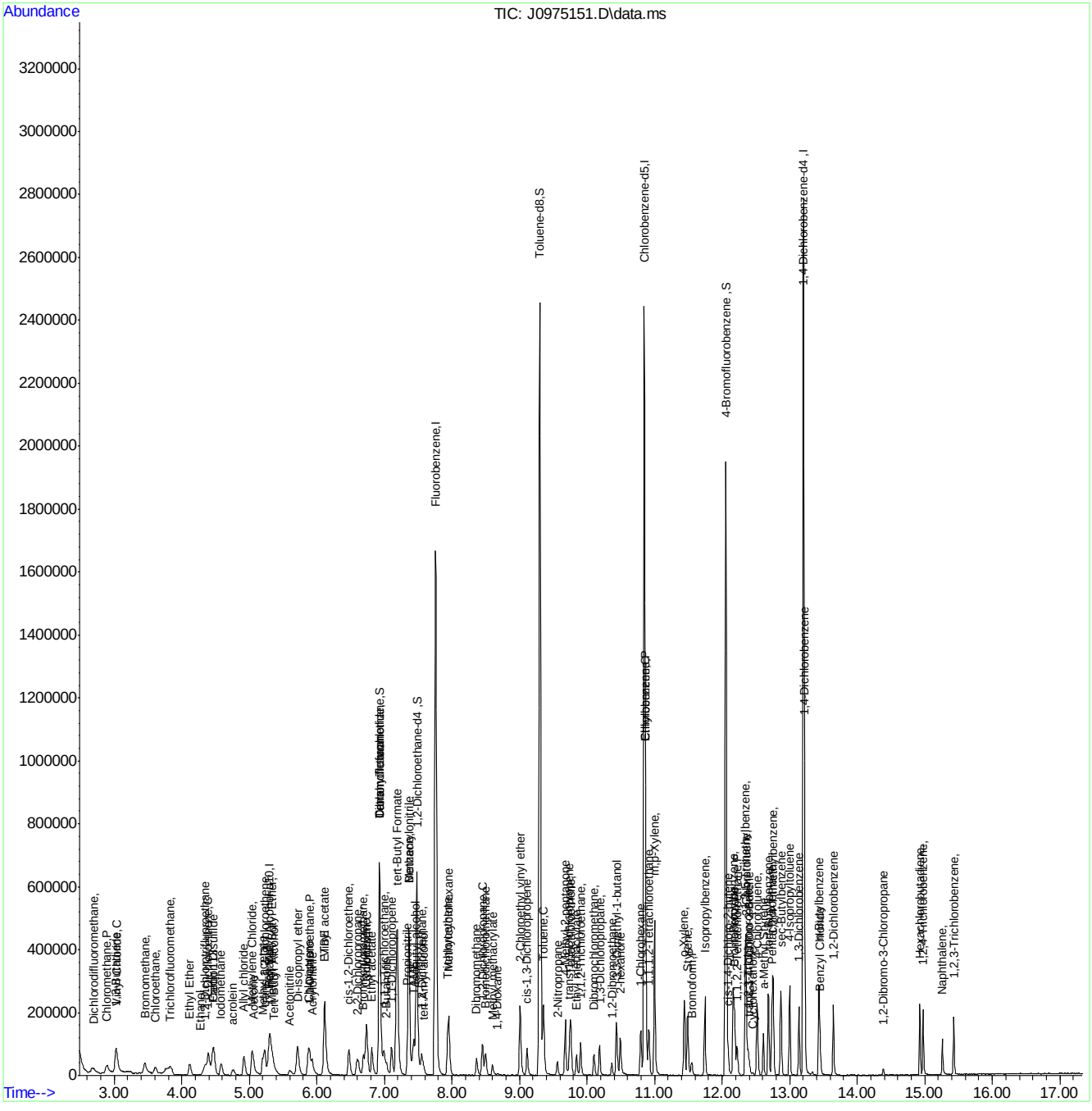
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:20:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

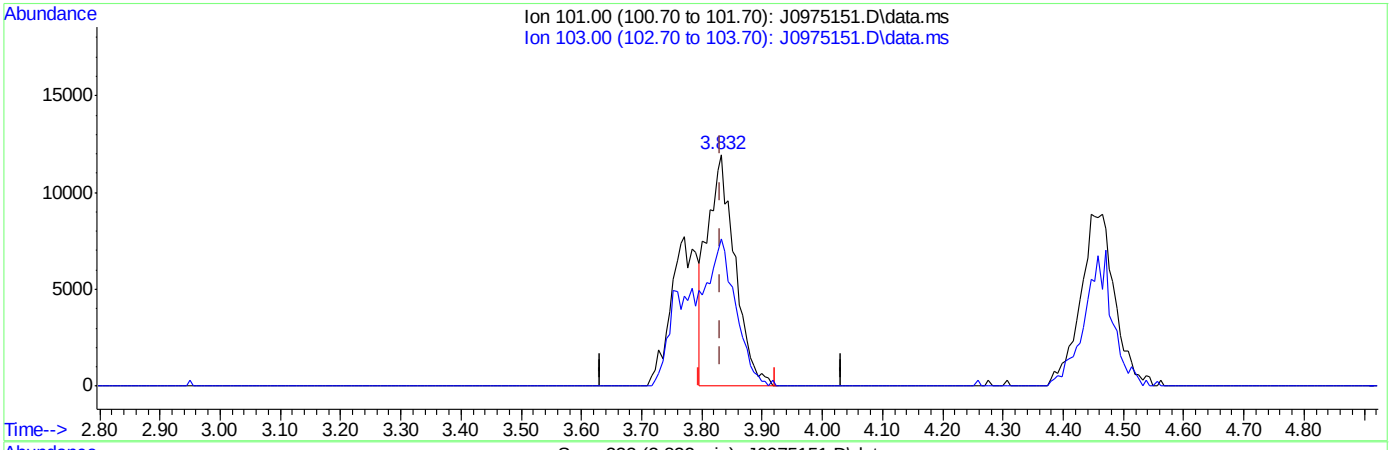
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975151.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 14:41	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

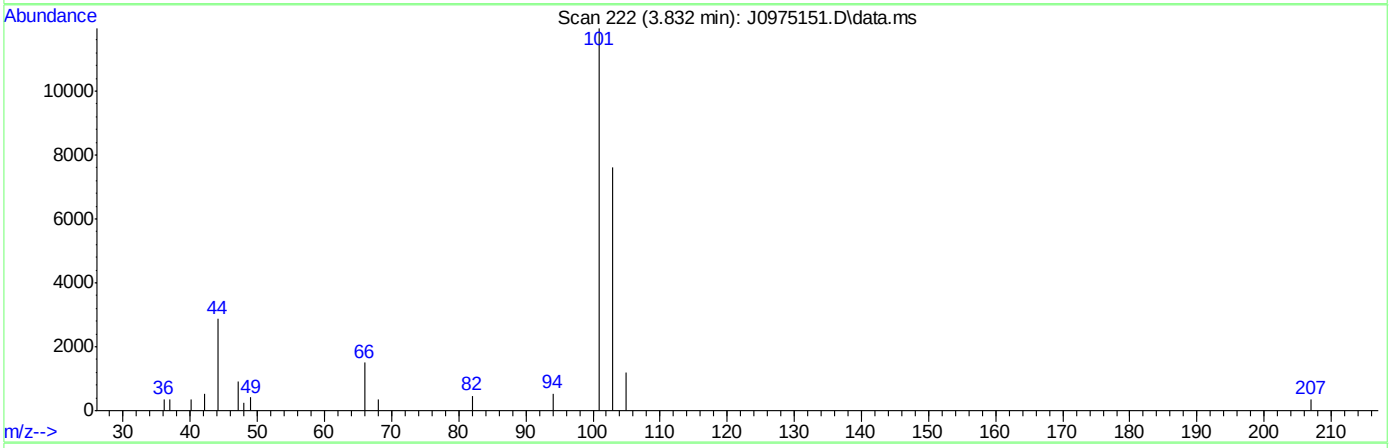
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:17:24 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975151.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 2.87ug/L

response 37793

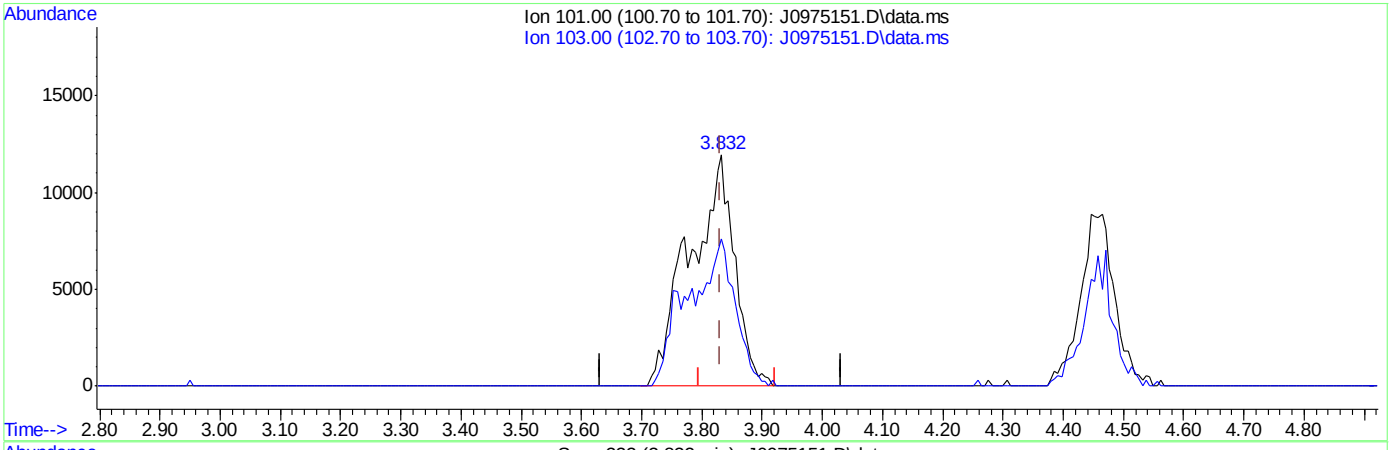
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.74
0.00	0.00	0.00
0.00	0.00	0.00

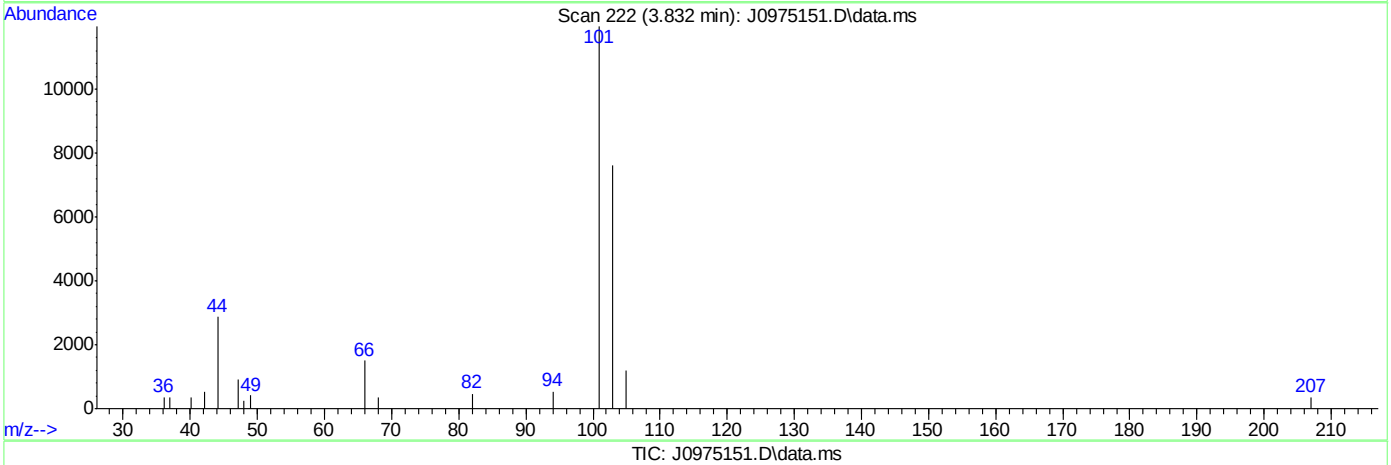
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:17:24 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975151.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 4.67ug/L m

response 61441

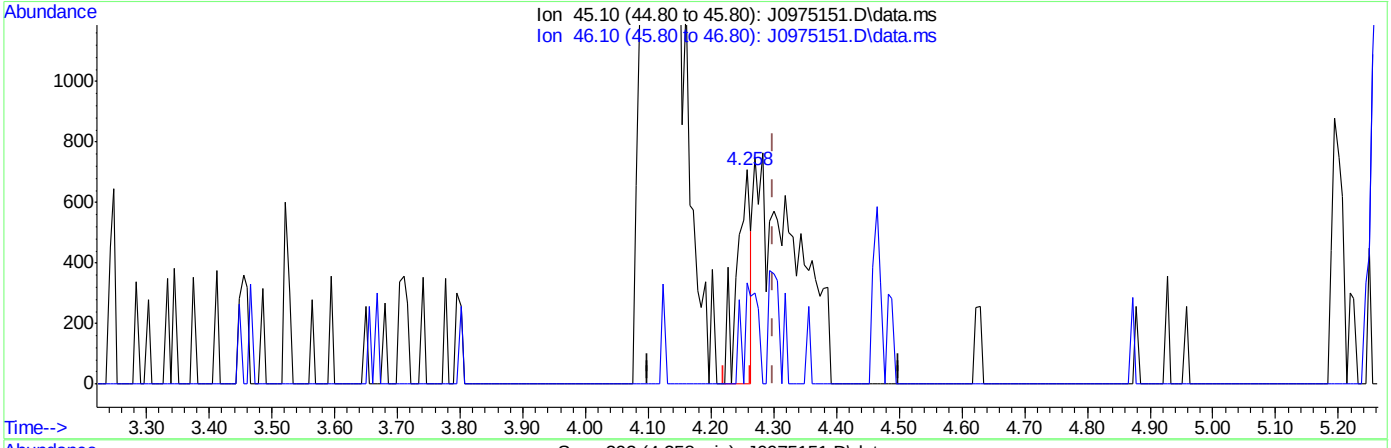
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.74
0.00	0.00	0.00
0.00	0.00	0.00

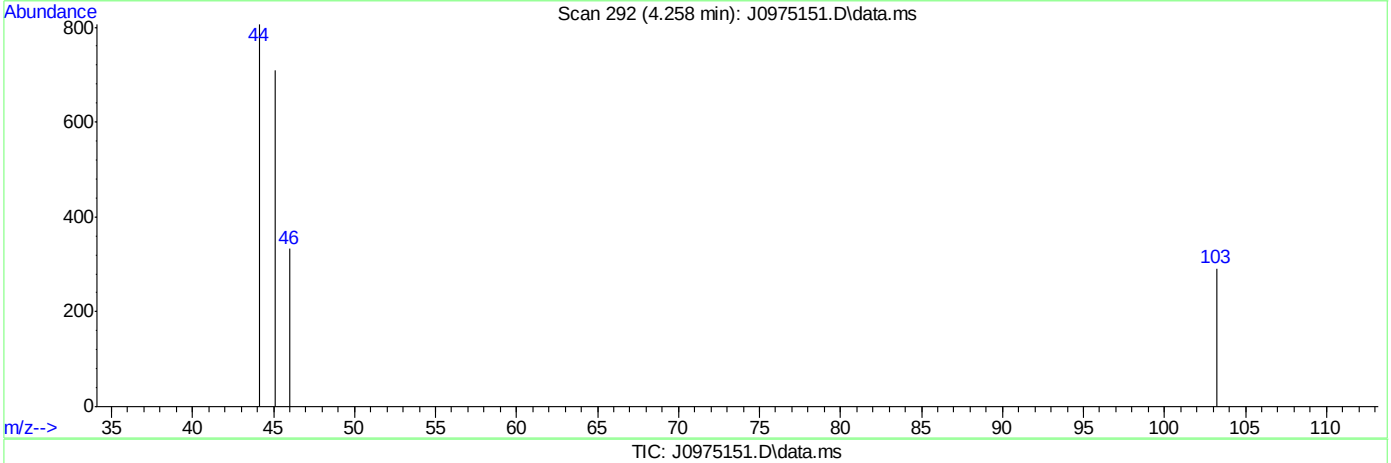
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:17:24 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975151.D\data.ms

(107) Ethanol

4.258min (-0.042) 31.39ug/L

response 1092

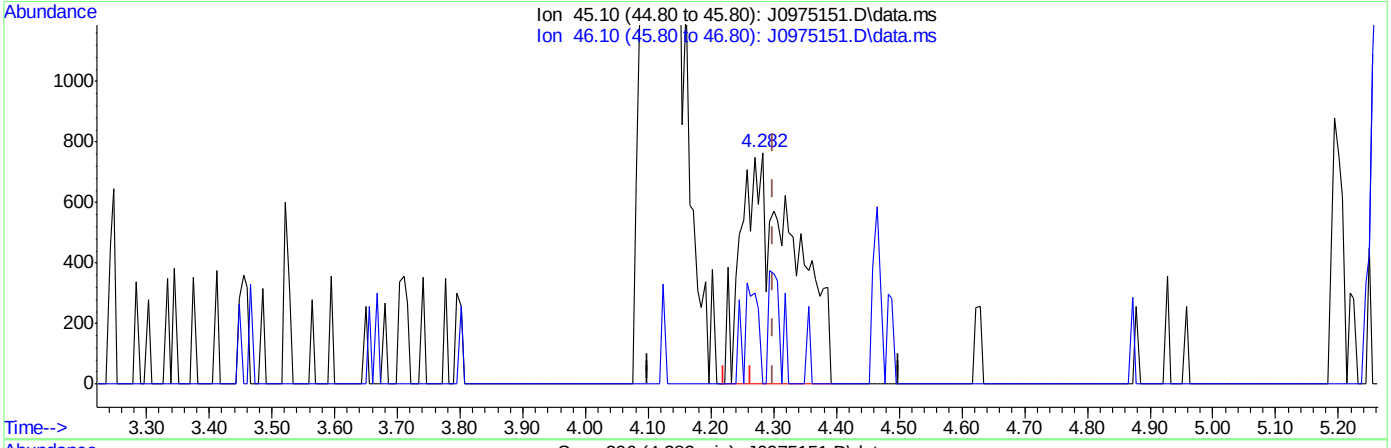
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	47.03
0.00	0.00	0.00
0.00	0.00	0.00

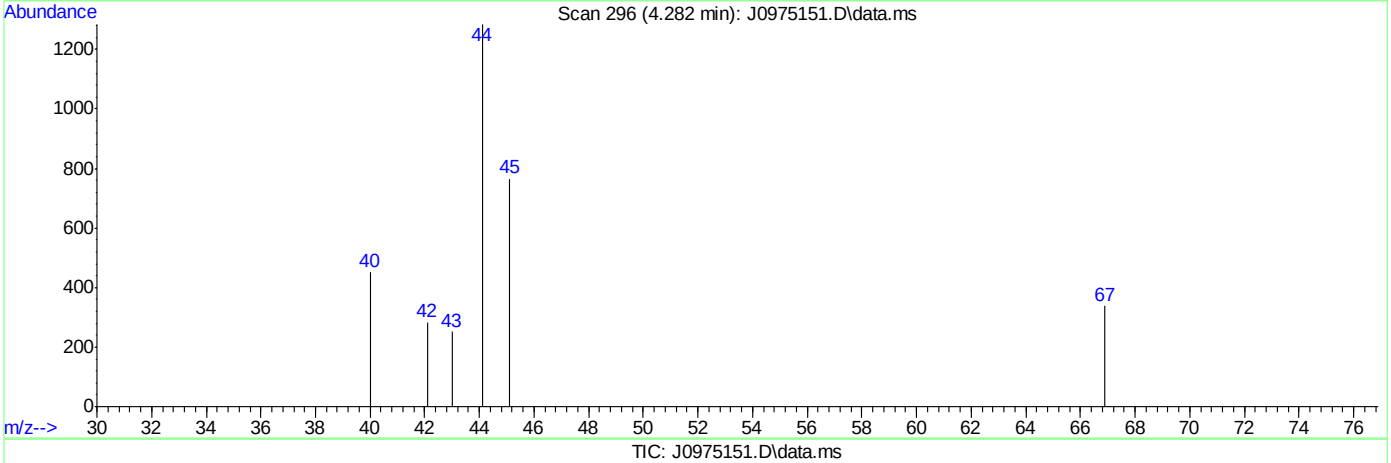
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:17:24 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975151.D\data.ms

(107) Ethanol

4.282min (-0.018) 130.44ug/L m

response 4538

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:20:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1542004	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1142014	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	645463	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	86968	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	390494	49.55	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.10%			
46) 1,2-Dichloroethane-d4	7.482	65	480391	50.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.92%			
57) Toluene-d8	9.301	98	1510629	49.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.98%			
79) 4-Bromofluorobenzene	12.057	95	583662	47.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.682	85	96837	9.39	ug/L	89
3) Chloromethane	2.889	50	98790	9.76	ug/L	92
4) Vinyl Chloride	3.035	62	100613	9.52	ug/L	99
5) 1,3-Butadiene	3.023	54	82854	9.75	ug/L	94
6) Bromomethane	3.455	94	76300	11.20	ug/L	97
7) Chloroethane	3.613	64	54861	9.56	ug/L	98
8) Trichlorofluoromethane	3.832	101	129700m	9.58	ug/L	
9) Ethyl Ether	4.118	59	60071	9.39	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.361	67	90564	10.00	ug/L	93
11) 1,1-Dichloroethene	4.392	61	111413	9.75	ug/L	96
12) Freon 113	4.452	101	78248	10.25	ug/L	96
13) Carbon Disulfide	4.471	76	231267	9.54	ug/L	92
14) Iodomethane	4.580	142	121731	9.73	ug/L	97
15) Allyl chloride	4.921	41	103477	9.62	ug/L	90
16) Methylene Chloride	5.043	49	104616	10.01	ug/L	98
17) Acetone	5.079	58	24885	57.38	ug/L	94
18) Methyl acetate	5.195	74	43154	47.33	ug/L	93
19) trans-1,2-Dichloroethene	5.225	61	102701	9.23	ug/L	95
20) Hexane	5.298	56	67523	9.75	ug/L	95
21) Methyl Tert Butyl Ether	5.335	73	199338	9.58	ug/L	82
22) Acetonitrile	5.590	40	35809	111.18	ug/L	97
23) Di-isopropyl ether	5.718	45	228448	9.53	ug/L	97
24) Chloroprene	5.870	53	108840	9.22	ug/L	96
25) 1,1-Dichloroethane	5.894	63	136729	9.48	ug/L	99
26) Acrylonitrile	5.925	53	101112	50.59	ug/L	95
27) ETBE	6.113	59	228598	9.53	ug/L	98
28) Vinyl acetate	6.113	43	617170	51.43	ug/L	96
29) cis-1,2-Dichloroethene	6.472	96	86398	9.39	ug/L	96
30) 2,2-Dichloropropane	6.600	77	106201	9.81	ug/L	98
31) Bromochloromethane	6.685	128	40628	9.51	ug/L	97
32) Cyclohexane	6.728	56	128094	9.95	ug/L	96
33) Chloroform	6.740	83	149140	9.47	ug/L	96
34) Ethyl acetate	6.807	43	238777	49.82	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:20:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	14645	10.65 ug/L	93
37) Carbon Tetrachloride	6.928	117	98194m	8.99 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	130953	9.89 ug/L	96
39) 2-Butanone	7.032	43	95601	45.54 ug/L	97
40) 1,1-Dichloropropene	7.105	75	102750	9.36 ug/L	96
41) tert-Butyl Formate	7.184	59	431536	89.05 ug/L #	79
42) Propionitrile	7.336	54	71061	97.45 ug/L	99
43) Methacrylonitrile	7.360	41	364135	107.10 ug/L	98
44) Benzene	7.360	78	307875	9.21 ug/L	98
45) TAME	7.433	73	201643	9.53 ug/L	94
47) 1,2-Dichloroethane	7.549	62	108962	9.44 ug/L	97
48) Trichloroethene	7.938	95	82434	9.35 ug/L	95
49) Methylcyclohexane	7.957	83	140503	10.10 ug/L	94
50) Dibromomethane	8.364	93	43618	9.51 ug/L	91
51) 1,2-Dichloropropane	8.449	63	77405	9.41 ug/L	97
52) Bromodichloromethane	8.498	83	100869	9.52 ug/L	97
53) Methyl methacrylate	8.595	41	41843	9.45 ug/L	96
54) 2-Chloroethyl vinyl ether	9.009	63	198236	44.77 ug/L	99
55) cis-1,3-Dichloropropene	9.112	75	111485	9.33 ug/L	96
58) Toluene	9.356	91	333474	9.35 ug/L	98
59) 2-Nitropropane	9.557	41	56369	40.49 ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	241484	48.48 ug/L	98
61) trans-1,3-Dichloropropene	9.739	75	91892	9.35 ug/L	99
62) Tetrachloroethene	9.757	166	86651	8.91 ug/L	97
63) Ethyl methacrylate	9.842	69	75067	8.79 ug/L	96
64) 1,1,2-Trichloroethane	9.903	83	53956	9.61 ug/L	94
65) Dibromochloromethane	10.104	129	64538	8.94 ug/L	90
66) 1,3-Dichloropropane	10.183	76	107662	9.37 ug/L	95
67) 1,2-Dibromoethane	10.366	107	59559	9.73 ug/L	99
68) 2-hexanone	10.493	43	156481	46.19 ug/L	94
69) 1-Chlorohexane	10.798	91	97922	9.33 ug/L	95
70) Ethylbenzene	10.858	91	385160	9.25 ug/L	99
71) Chlorobenzene	10.865	112	216946	9.43 ug/L	92
72) 1,1,1,2-Tetrachloroethane	10.913	131	67973	9.29 ug/L	96
73) m,p-Xylene	10.998	91	586786	18.12 ug/L	96
74) o-Xylene	11.436	91	293795	9.82 ug/L	98
75) Styrene	11.485	104	209544	9.47 ug/L	97
76) Bromoform	11.546	173	37240	9.38 ug/L	97
77) Isopropylbenzene	11.741	105	344800	9.12 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	20702	12.22 ug/L #	83
81) n-Propylbenzene	12.160	91	424611	9.43 ug/L	96
82) Bromobenzene	12.185	156	94857	9.08 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	76382	9.98 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	313459	9.35 ug/L	97
85) 2-Chlorotoluene	12.355	91	305103	9.36 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.404	53	18224	11.47 ug/L #	83
87) 1,2,3-Trichloropropane	12.385	110	19886	9.45 ug/L	96
88) Cyclohexanone	12.446	55	6163	48.04 ug/L	95
89) 4-Chlorotoluene	12.519	91	274526	9.17 ug/L	99
90) a-Methyl Styrene	12.611	118	83330	8.90 ug/L	98

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:20:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.684	91	180959	9.16	ug/L	94
92) 1,2,4-Trimethylbenzene	12.750	105	317609	9.46	ug/L	98
93) Pentachloroethane	12.738	167	53231	11.32	ug/L	98
94) sec-Butylbenzene	12.872	105	388833	9.74	ug/L	99
95) 4-Isopropyltoluene	13.000	119	322012	9.68	ug/L	99
96) 1,3-Dichlorobenzene	13.140	146	170341	9.52	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	178667	9.41	ug/L	92
98) n-Butylbenzene	13.432	92	181738	9.54	ug/L	98
99) Benzyl Chloride	13.450	126	20775	9.56	ug/L	98
100) 1,2-Dichlorobenzene	13.645	146	158407	9.75	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	10283	15.60	ug/L	91
102) Hexachlorobutadiene	14.928	225	72278	13.85	ug/L	98
103) 1,2,4-Trichlorobenzene	14.977	180	115617	19.85	ug/L	97
104) Naphthalene	15.263	128	173792	24.23	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	100782	26.68	ug/L	96
107) Ethanol	4.282	45	9223m	244.52	ug/L	
108) acrolein	4.757	56	52343	54.58	ug/L	93
109) Tert Butyl Alcohol	5.371	59	43268	107.11	ug/L	83
110) tert Amyl alcohol	7.573	59	29873	99.13	ug/L	91
111) Isobutyl alcohol	7.452	42	29297	179.04	ug/L #	88
112) 1,4-Dioxane	8.674	88	6964	180.83	ug/L	98
113) 3,3-Dimethyl-1-butanol	10.433	57	188130	559.66	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.22

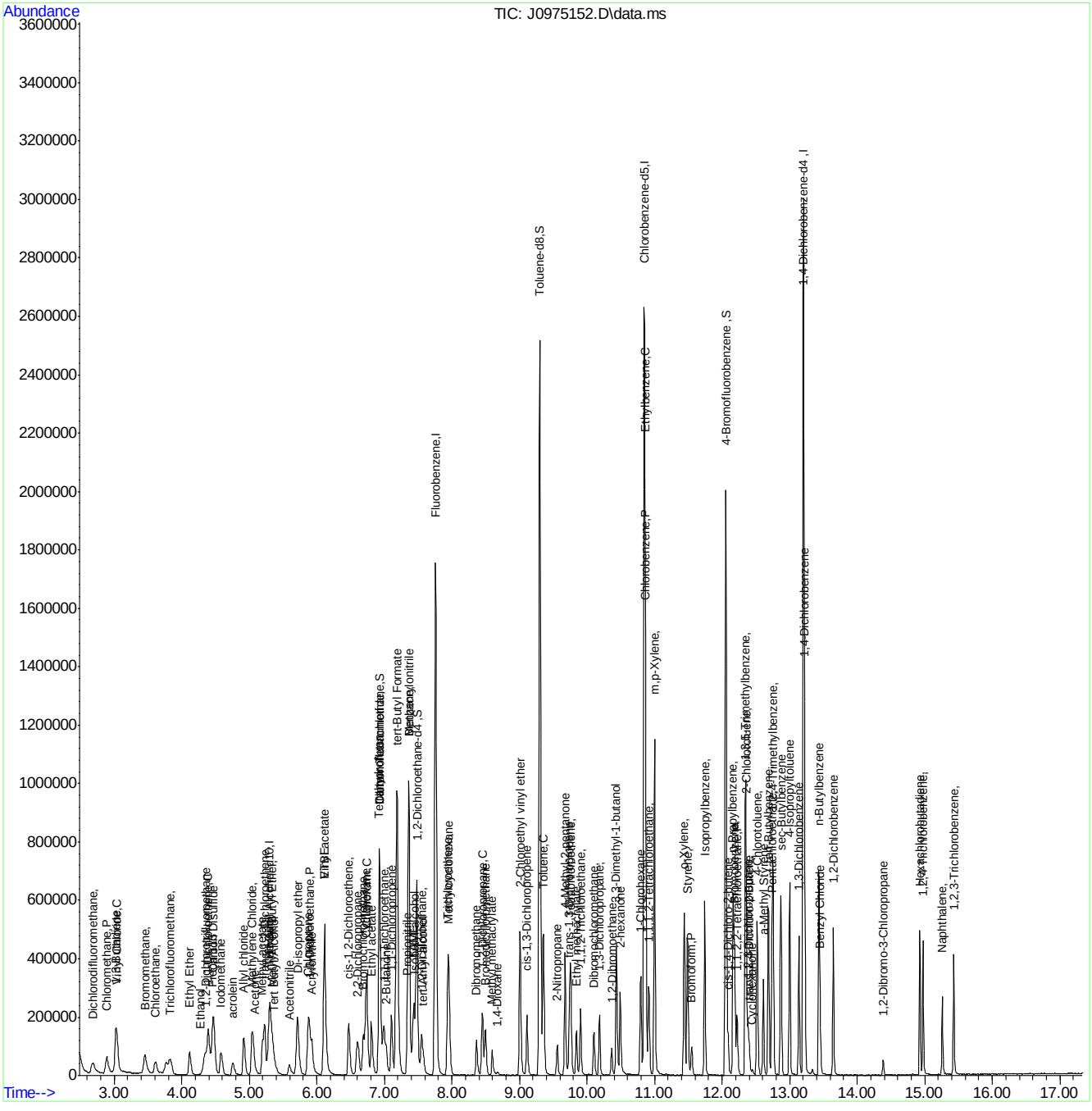
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:20:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration


Abundance
TIC: J0975152.D\data.ms
Time-->
Toluene-d8,S
Chlorobenzene-d5,I
Fluorobenzene,I
4-Bromofluorobenzene ,S
1,4-Dichlorobenzene-d4 ,I
Ethylbenzene,C
Chlorobenzene,P
m,p-Xylene,
Styrene
Xylene,
Isopropylbenzene,
Bromoform,P
n-Butylbenzene
1,2-Dichlorobenzene
Benzyl Chloride
1,2-Dibromo-3-Chloropropane
Naphthalene,
1,2,3-Trichlorobenzene,
1,4-Dichlorobenzene
1,3-Dichlorobenzene
sec-Butylbenzene
4-Isopropyltoluene
2-Chlorotoluene,
4-Chlorotoluene,
Toluene,C
cis-1,3-Dichloropropene
2-Chloroethyl vinyl ether
2-Nitropropane
Ethyl Methacrylate
1,4-Dioxane
Dibromomethane
Methylene Chloride,
Acrylonitrile
Di-isopropyl ether
Ethyl Ether
Bromomethane,
Chloroethane,
Trichlorofluoromethane,
Dichlorodifluoromethane,
Chloromethane,P
Vinyl Chloride,C
Iodomethane
acrolein
Alyl chloride,
Acetone
Acetonitrile
Ethyl Acetate
cis-1,2-Dichloroethene,
2,2-Dichloropropane
Ethyl acetate
2-Butanone
tert-Butyl Formate
1,2-Dichloroethane-d4 ,S
Methylcyclohexane
1,1,1-Trichloroethane,
1-Chlorohexane
2-Hexanone
1,2-Dibromoethane,
1,3-Dichloropropane,
2-Dimethyl-1-butanol
Dibromochloromethane,
Chloroform,P
Methyl Acrylonitrile
Methyl Methacrylate
Propionitrile
Methyl Methacrylate
Propionitrile
Methyl Methacrylate
Propion

Manual Integration Approval Summary

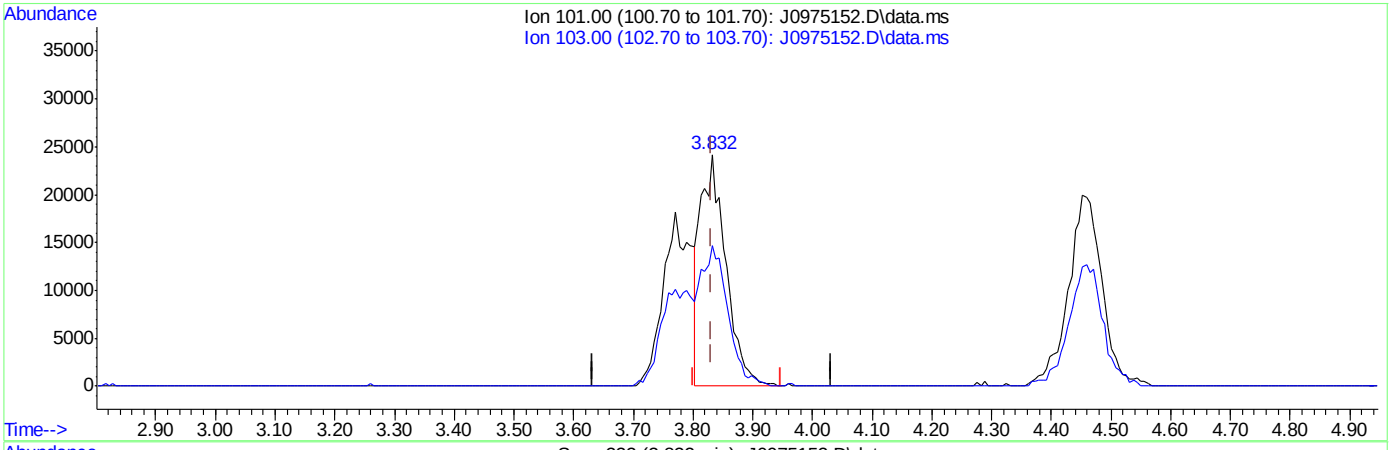
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975152.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 15:05	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

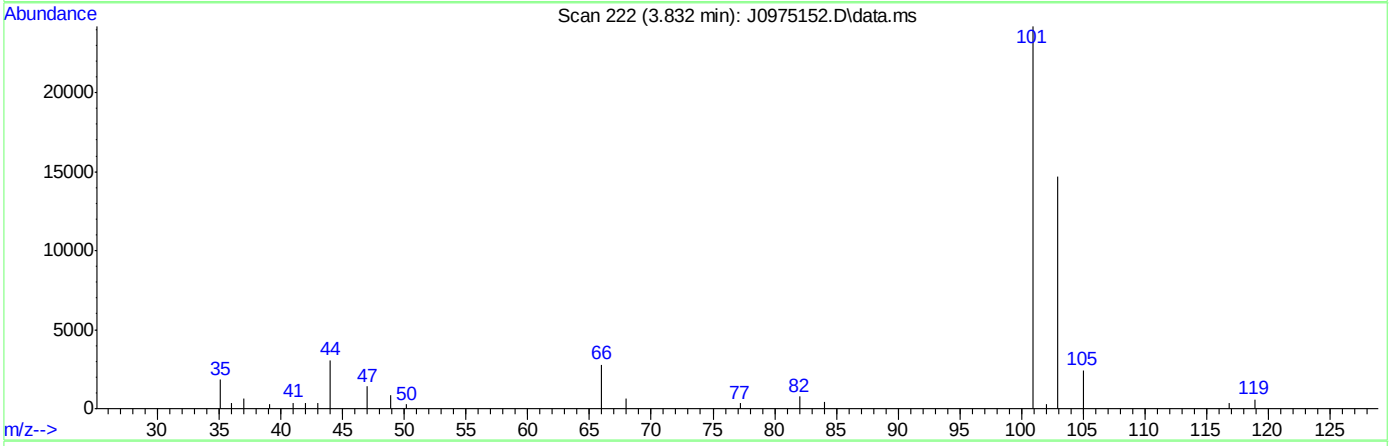
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 5.33ug/L

response 72205

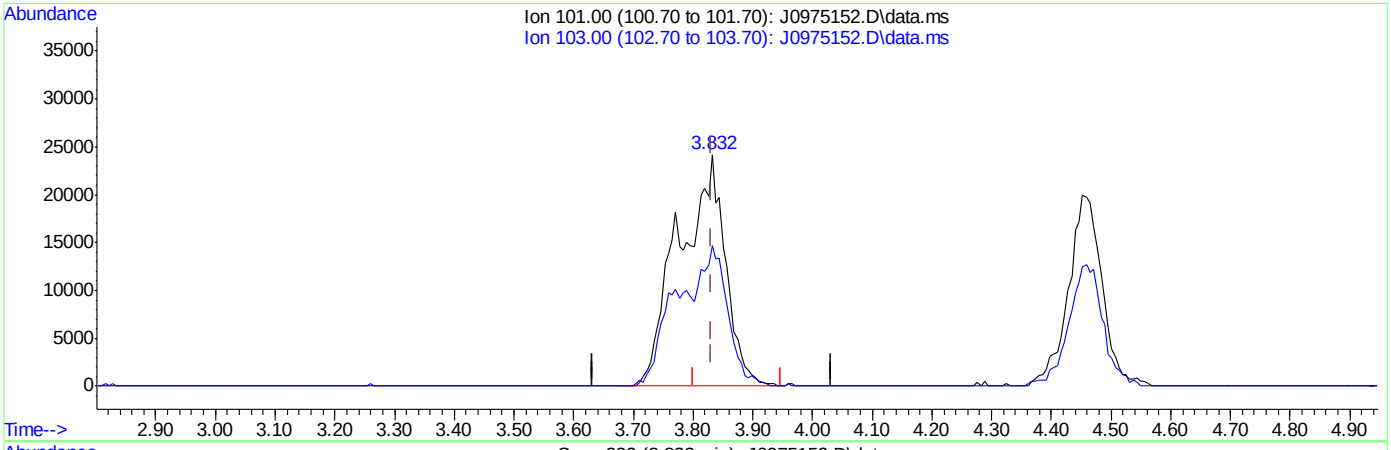
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.65
0.00	0.00	0.00
0.00	0.00	0.00

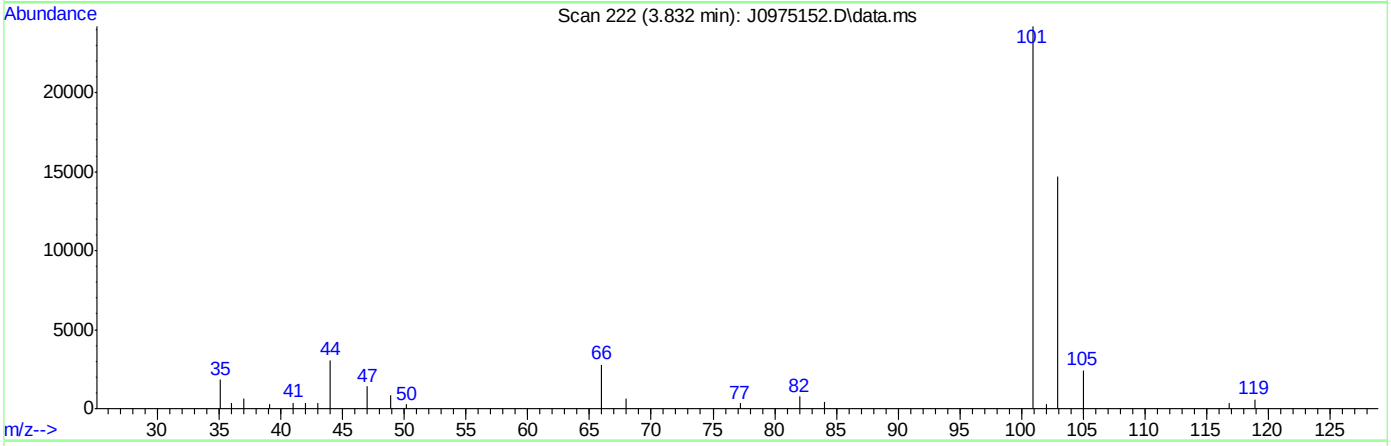
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 9.58ug/L m

response 129700

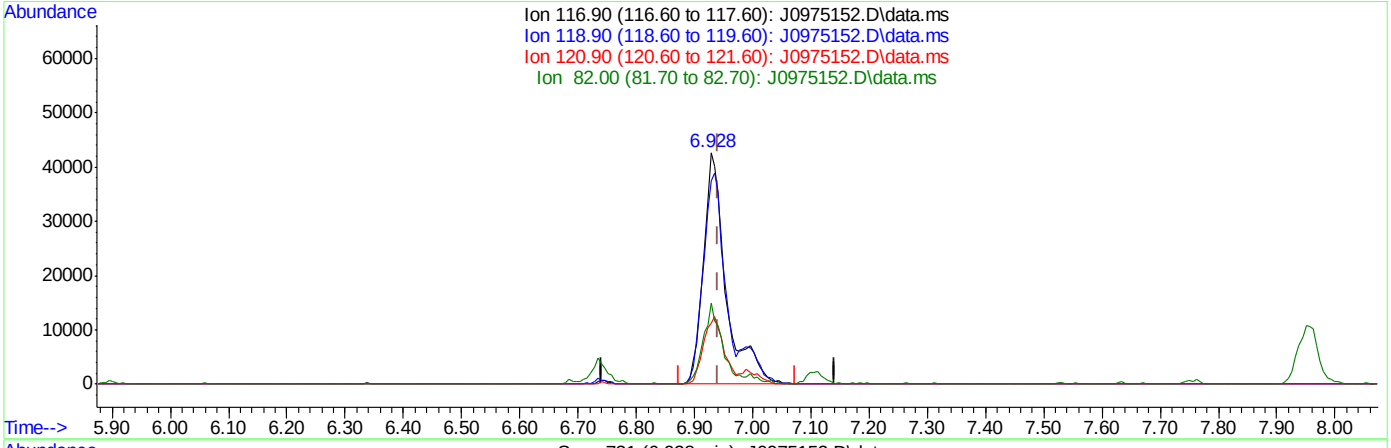
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.65
0.00	0.00	0.00
0.00	0.00	0.00

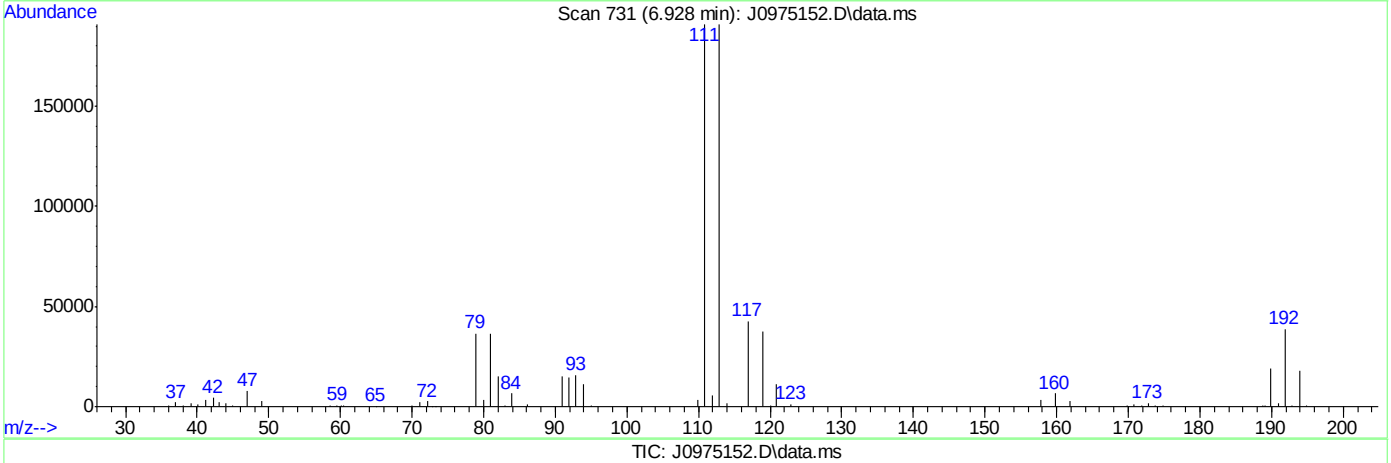
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 10.70ug/L

response 116845

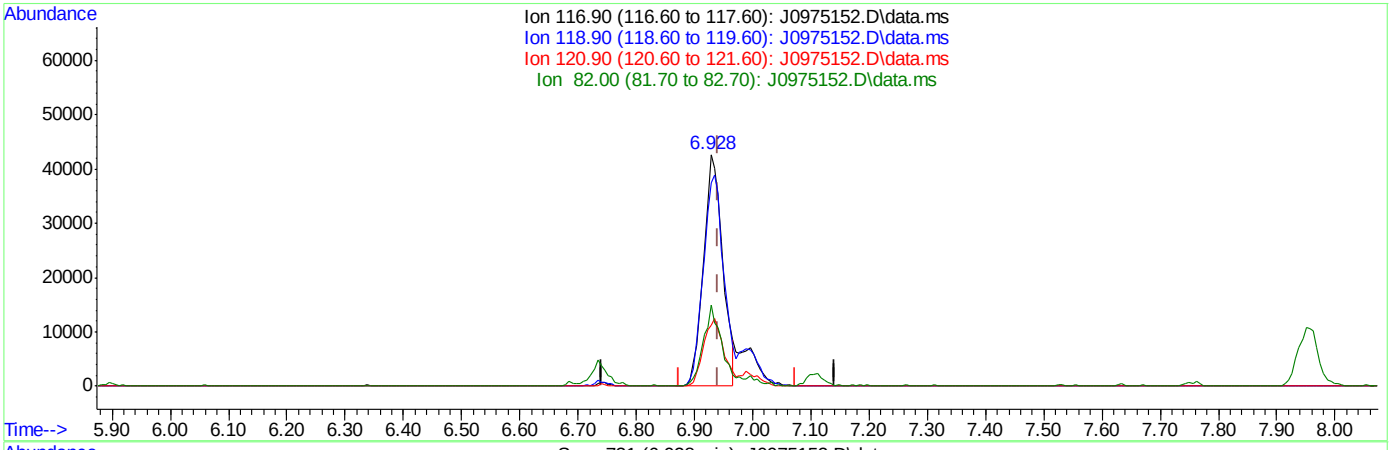
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	87.87
120.90	31.80	26.11
82.00	25.40	35.08

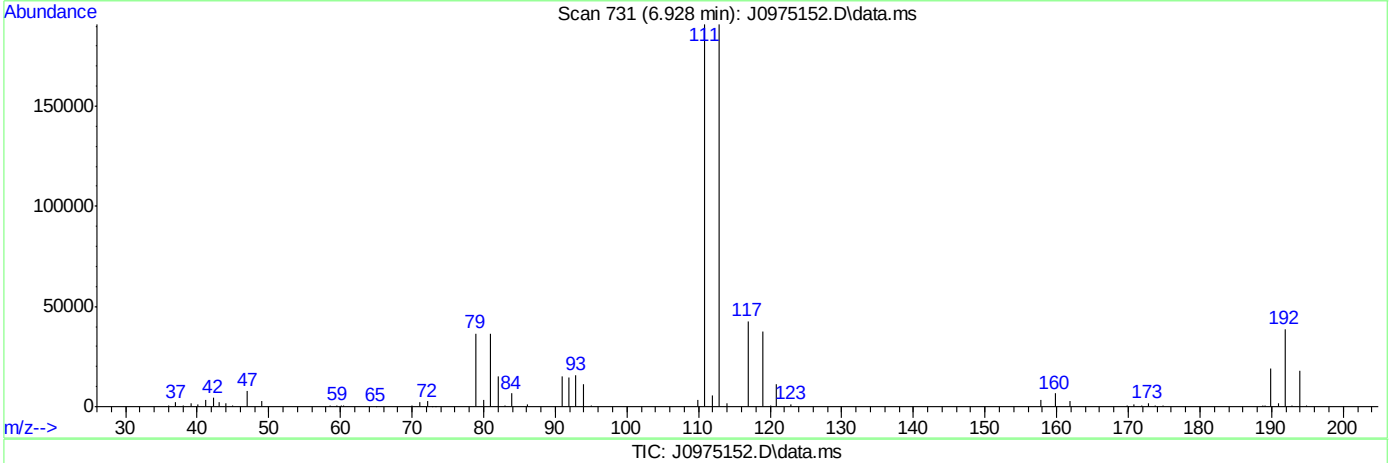
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 8.99ug/L m

response 98194

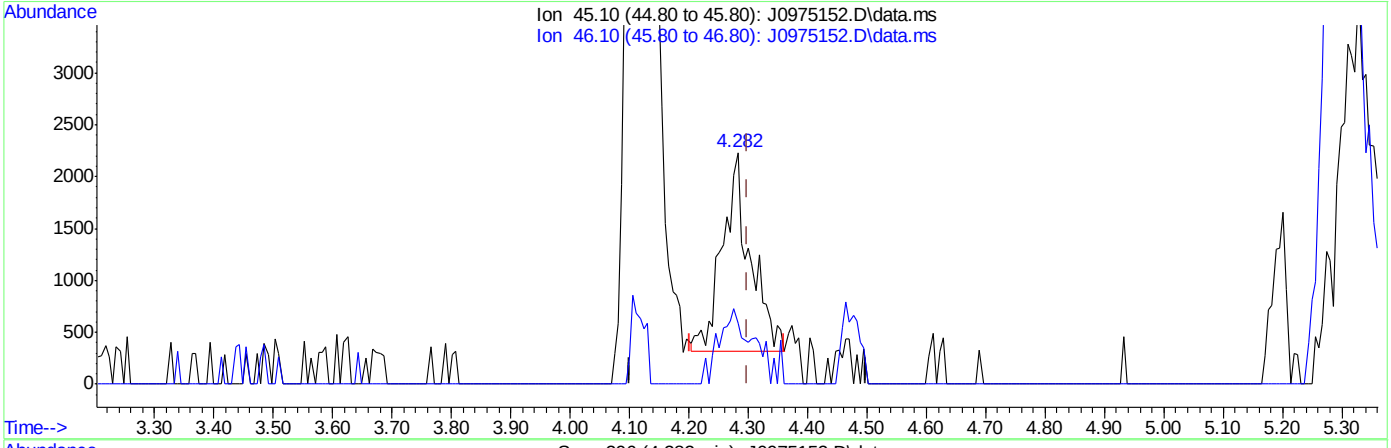
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	87.87
120.90	31.80	26.11
82.00	25.40	35.08

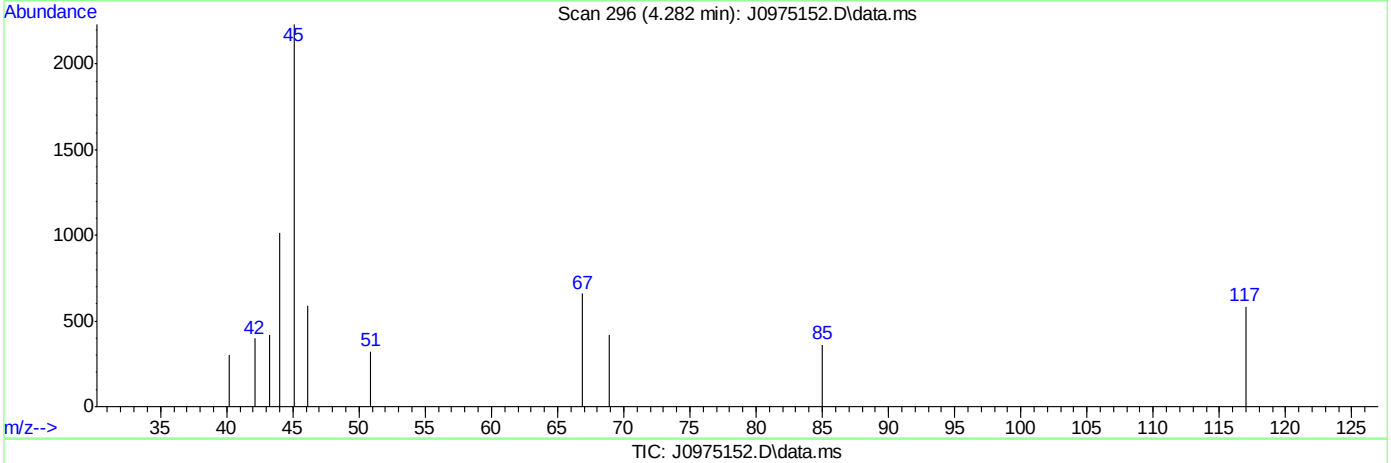
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(107) Ethanol

4.282min (-0.018) 164.75ug/L

response 6214

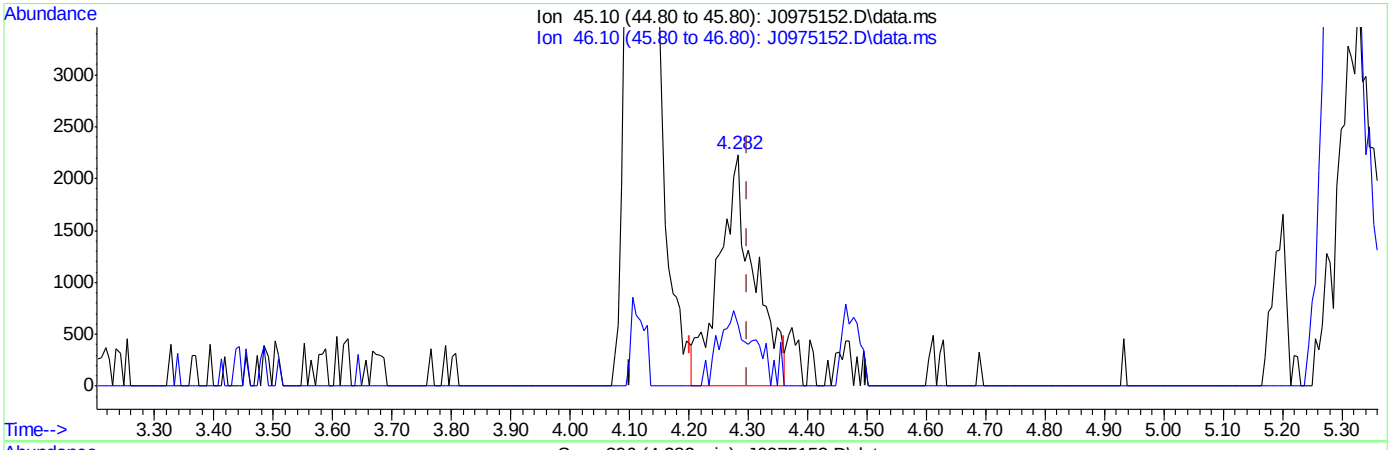
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	30.86
0.00	0.00	0.00
0.00	0.00	0.00

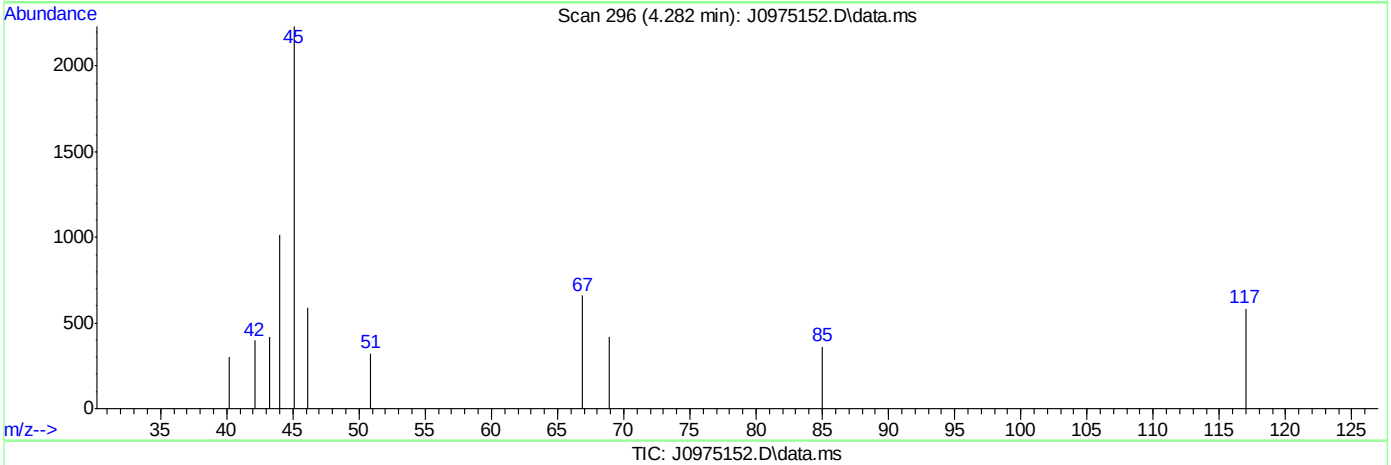
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(107) Ethanol

4.282min (-0.018) 244.52ug/L m

response 9223

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	26.48
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:21:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.762	96	1533430	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1155545	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	660864	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.310	65	80804	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	385904	49.24	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.48%			
46) 1,2-Dichloroethane-d4	7.482	65	478987	50.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.20%			
57) Toluene-d8	9.301	98	1526389	49.92	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.84%			
79) 4-Bromofluorobenzene	12.057	95	594796	46.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	236090	23.03	ug/L	96
3) Chloromethane	2.895	50	248511	24.83	ug/L	99
4) Vinyl Chloride	3.041	62	262732	24.99	ug/L	97
5) 1,3-Butadiene	3.041	54	192842	22.81	ug/L	97
6) Bromomethane	3.467	94	183448	29.03	ug/L	99
7) Chloroethane	3.619	64	134383	25.30	ug/L	98
8) Trichlorofluoromethane	3.838	101	324542m	24.10	ug/L	
9) Ethyl Ether	4.124	59	148874	23.39	ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.349	67	221917	24.65	ug/L	99
11) 1,1-Dichloroethene	4.398	61	275821	24.26	ug/L	95
12) Freon 113	4.464	101	193752	25.52	ug/L	97
13) Carbon Disulfide	4.477	76	582506	24.16	ug/L	99
14) Iodomethane	4.586	142	301222	24.20	ug/L	99
15) Allyl chloride	4.921	41	256312	23.95	ug/L	96
16) Methylene Chloride	5.042	49	250982	24.38	ug/L	98
17) Acetone	5.067	58	56549	130.19	ug/L	98
18) Methyl acetate	5.201	74	110573	121.96	ug/L	94
19) trans-1,2-Dichloroethene	5.231	61	254770	23.02	ug/L	98
20) Hexane	5.298	56	165802	24.07	ug/L	98
21) Methyl Tert Butyl Ether	5.334	73	508807	24.59	ug/L	85
22) Acetonitrile	5.590	40	70431	222.21	ug/L	95
23) Di-isopropyl ether	5.718	45	579005	24.29	ug/L	95
24) Chloroprene	5.870	53	268885	22.90	ug/L	98
25) 1,1-Dichloroethane	5.900	63	334371	23.31	ug/L	98
26) Acrylonitrile	5.925	53	252370	126.97	ug/L	96
27) ETBE	6.119	59	598509	25.08	ug/L	99
28) Vinyl acetate	6.113	43	1542708	129.29	ug/L	97
29) cis-1,2-Dichloroethene	6.478	96	214930	23.50	ug/L	99
30) 2,2-Dichloropropane	6.606	77	262403	24.38	ug/L	95
31) Bromochloromethane	6.685	128	96920	22.82	ug/L	93
32) Cyclohexane	6.734	56	324888	25.37	ug/L	97
33) Chloroform	6.740	83	376439	24.05	ug/L	98
34) Ethyl acetate	6.813	43	597459	125.36	ug/L	98

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:21:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	33527	24.42	ug/L	92
37) Carbon Tetrachloride	6.934	117	262480m	24.16	ug/L	
38) 1,1,1-Trichloroethane	6.995	97	318246	24.16	ug/L	96
39) 2-Butanone	7.026	43	237967	114.01	ug/L	99
40) 1,1-Dichloropropene	7.105	75	262106	24.02	ug/L	99
41) tert-Butyl Formate	7.190	59	1165018	241.25	ug/L	87
42) Propionitrile	7.336	54	169075	233.16	ug/L	87
43) Methacrylonitrile	7.360	41	781087	236.37	ug/L	96
44) Benzene	7.360	78	797780	24.00	ug/L	100
45) TAME	7.433	73	528216	25.10	ug/L	95
47) 1,2-Dichloroethane	7.549	62	269892	23.52	ug/L	98
48) Trichloroethene	7.938	95	204516	23.33	ug/L	96
49) Methylcyclohexane	7.956	83	351296	25.39	ug/L	99
50) Dibromomethane	8.364	93	110710	24.27	ug/L	99
51) 1,2-Dichloropropane	8.449	63	197382	24.13	ug/L	99
52) Bromodichloromethane	8.498	83	253035	24.02	ug/L	99
53) Methyl methacrylate	8.595	41	106473	24.18	ug/L	94
54) 2-Chloroethyl vinyl ether	9.009	63	533856	122.44	ug/L	99
55) cis-1,3-Dichloropropene	9.112	75	298406	25.11	ug/L	95
58) Toluene	9.356	91	835217	23.62	ug/L	96
59) 2-Nitropropane	9.556	41	159940	113.53	ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	610403	121.12	ug/L	98
61) trans-1,3-Dichloropropene	9.739	75	248569	24.99	ug/L	96
62) Tetrachloroethene	9.757	166	221333	22.50	ug/L	99
63) Ethyl methacrylate	9.842	69	198559	22.96	ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	138084	24.30	ug/L	97
65) Dibromochloromethane	10.104	129	173760	23.68	ug/L	97
66) 1,3-Dichloropropane	10.183	76	279208	24.02	ug/L	96
67) 1,2-Dibromoethane	10.366	107	155004	25.02	ug/L	99
68) 2-hexanone	10.487	43	407879	118.99	ug/L	96
69) 1-Chlorohexane	10.797	91	250072	23.55	ug/L	98
70) Ethylbenzene	10.864	91	966996	23.63	ug/L	99
71) Chlorobenzene	10.864	112	542095	23.50	ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.913	131	181972	24.59	ug/L	97
73) m,p-Xylene	10.998	91	1479689	47.57	ug/L	98
74) o-Xylene	11.436	91	757610	25.01	ug/L	98
75) Styrene	11.485	104	576061	25.73	ug/L	98
76) Bromoform	11.552	173	105048	25.68	ug/L	97
77) Isopropylbenzene	11.747	105	895282	23.97	ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	54472	31.42	ug/L	90
81) n-Propylbenzene	12.160	91	1088512	23.62	ug/L	100
82) Bromobenzene	12.185	156	240631	22.50	ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.221	83	198304	25.30	ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	824062	24.01	ug/L	99
85) 2-Chlorotoluene	12.355	91	783191	23.47	ug/L	97
86) trans-1,4-Dichloro-2-B...	12.404	53	49038	29.39	ug/L	89
87) 1,2,3-Trichloropropane	12.385	110	49418	22.94	ug/L	93
88) Cyclohexanone	12.452	55	14654	111.57	ug/L	94
89) 4-Chlorotoluene	12.519	91	691016	22.55	ug/L	99
90) a-Methyl Styrene	12.610	118	225477	23.53	ug/L	99

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:21:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	469170	23.19	ug/L	94
92) 1,2,4-Trimethylbenzene	12.756	105	829299	24.13	ug/L	99
93) Pentachloroethane	12.738	167	136417	27.26	ug/L	97
94) sec-Butylbenzene	12.872	105	1000249	24.47	ug/L	100
95) 4-Isopropyltoluene	13.000	119	843251	24.76	ug/L	99
96) 1,3-Dichlorobenzene	13.140	146	437811	23.91	ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	451698	23.23	ug/L	95
98) n-Butylbenzene	13.432	92	482211	24.72	ug/L	98
99) Benzyl Chloride	13.450	126	59122	25.52	ug/L #	93
100) 1,2-Dichlorobenzene	13.645	146	416704	25.05	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	28131	39.89	ug/L	91
102) Hexachlorobutadiene	14.928	225	186738	34.17	ug/L	96
103) 1,2,4-Trichlorobenzene	14.977	180	312376	49.18	ug/L	99
104) Naphthalene	15.257	128	500811	59.09	ug/L	97
105) 1,2,3-Trichlorobenzene	15.427	180	273581	61.74	ug/L	99
107) Ethanol	4.282	45	18758m	535.26	ug/L	
108) acrolein	4.763	56	132543	148.76	ug/L	96
109) Tert Butyl Alcohol	5.383	59	97091	258.68	ug/L	95
110) tert Amyl alcohol	7.579	59	72108	257.53	ug/L	86
111) Isobutyl alcohol	7.452	42	73885	499.48	ug/L #	82
112) 1,4-Dioxane	8.674	88	16071	449.14	ug/L	87
113) 3,3-Dimethyl-1-butanol	10.439	57	441948	1363.94	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.23

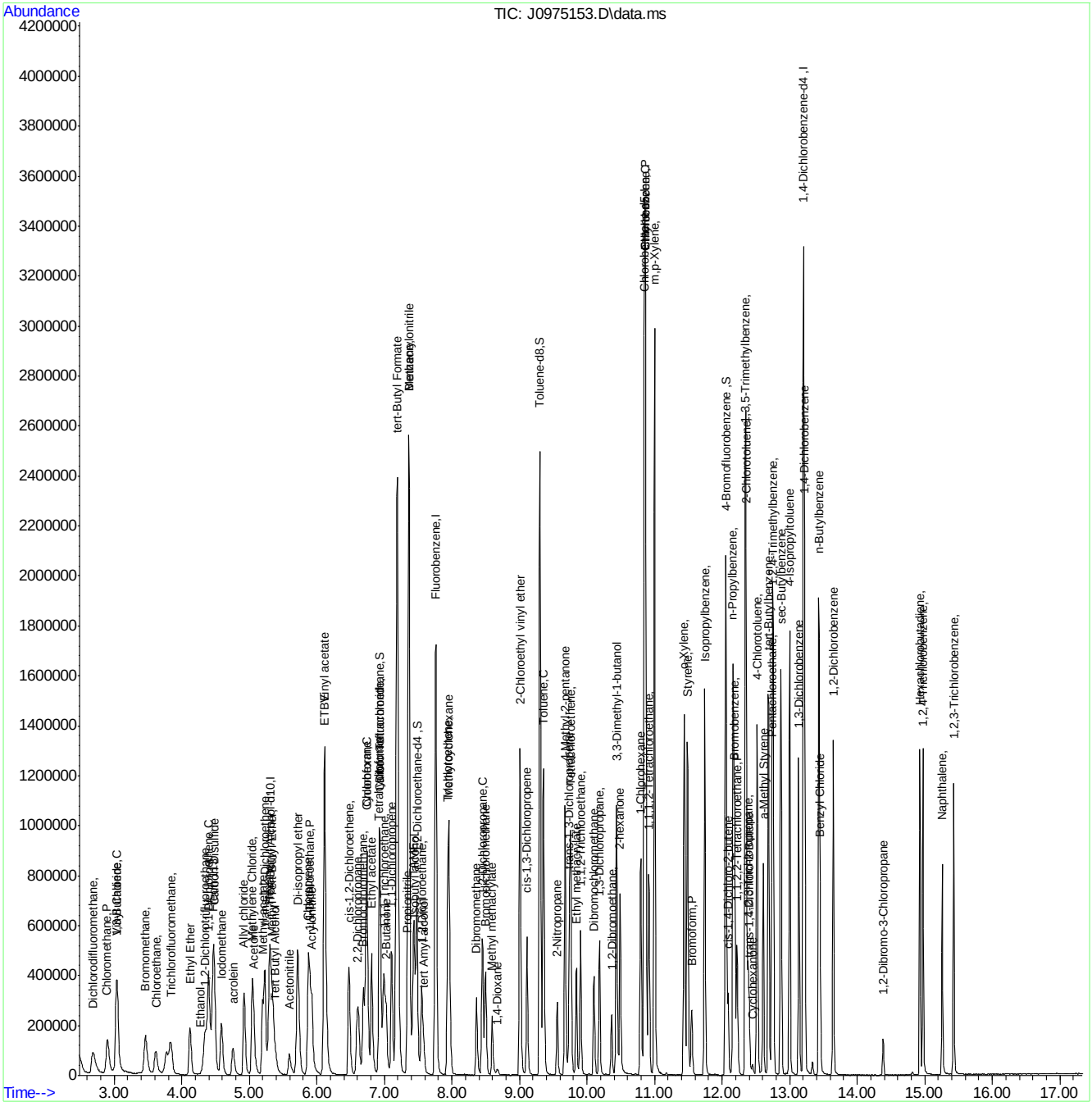
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:21:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration


Abundance
TIC: J0975153.D\data.ms
Time-->
Toluene-d8,S
1,4-Dichlorobenzene-d4 ,I
Fluorobenzene,I
tert-Butyl Formate
Vinyl acetate
2-Chloroethyl vinyl ether
Toluene,C
cis-1,3-Dichloropropene
2-Nitropropane
3,3-Dimethyl-1-butanol
1-Chlorohexane
Styrene
Xylene,
Isopropylbenzene,
Bromoform,P
n-Propylbenzene,
4-Bromofluorobenzene ,S
4-Chlorotoluene,
n-Butylbenzene
1,2-Dichlorobenzene
Benzyl Chloride
1,2-Dibromo-3-Chloropropane
Naphthalene,
1,2,3-Trichlorobenzene,
Dichlorodifluoromethane,
Chloromethane,P
Bromomethane,
Chloroethane,
Trichlorofluoromethane,
Ethyl Ether
Ethanol
Iodomethane
acrolein
Allyl chloride
Acetone
Methylene Chloride,
Acetonitrile
Di-isopropyl ether
Acrylonitrile
cis-1,2-Dichloroethene,
Ethyl acetate
2-Butanone
Methyl acrylate
Methyl methacrylate
1,4-Dioxane
Dibromomethane
1,2-Dibromoethane
Methylcyclohexane
Methylcyclohexane,C
Chloroform
Carbon tetrachloride
Tetrahydrofuran
1,1,1-Trichloroethane
Cyclohexane
2-Butanone
Propionitrile
Methacrylonitrile
Tetrachloroethene
Chlorobenzene
Ethylbenzene
m,p-Xylene,
o-Xylene,
Isopropyl Ether
Tert Butyl Alcohol
Methyl Tert Butyl Ether
Tert Amyl Methyl Ether
Tert Amyl Ethyl Ether
Tert Amyl Alcohol
Tert Butyl Alcohol
Methyl Acrylate
Methyl Methacrylate
Propionitrile
Methacrylonitrile
Iodomethane
Bromoethane
Chloroethane
Trichlorofluoromethane
Ethanol
Ethyl Ether
Acrylonitrile
Methylene Chloride
Methyl Tert Butyl Ether
Tert Butyl Alcohol
Tert Amyl Methyl Ether
Tert Amyl Ethyl Ether
Tert Am

Manual Integration Approval Summary

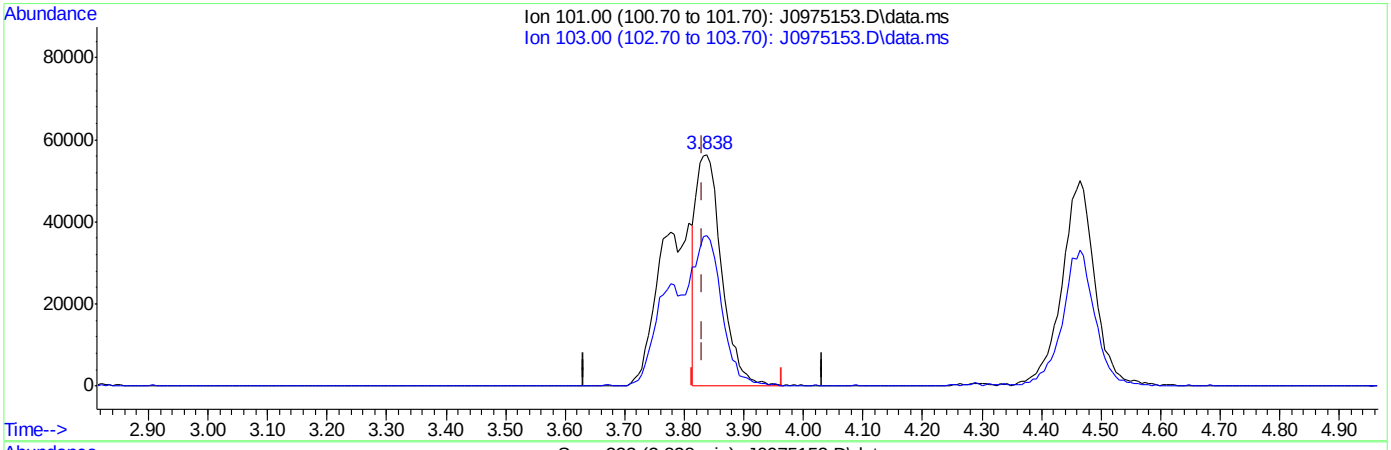
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975153.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 15:28	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

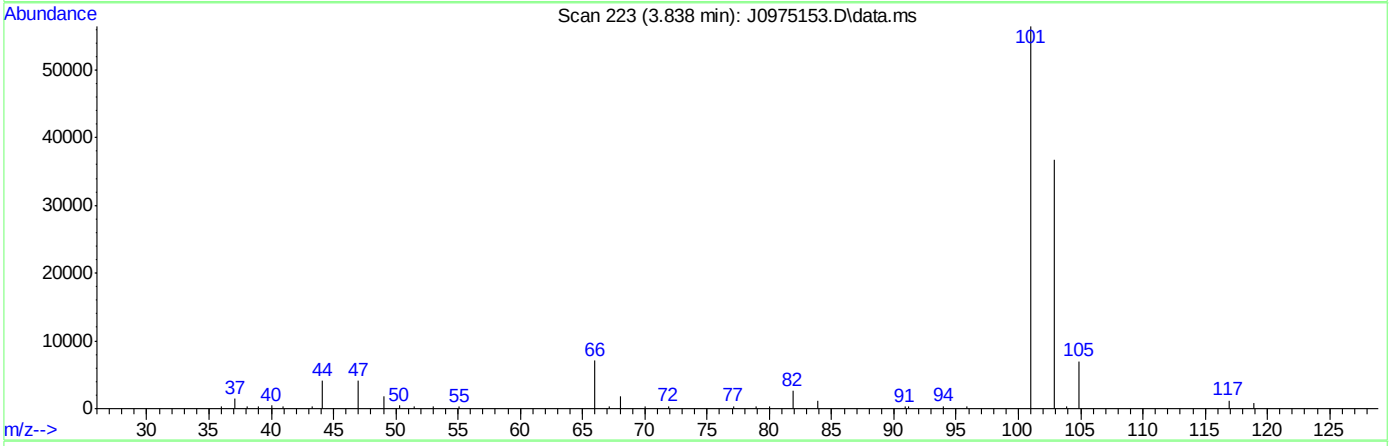
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 12.38ug/L

response 166709

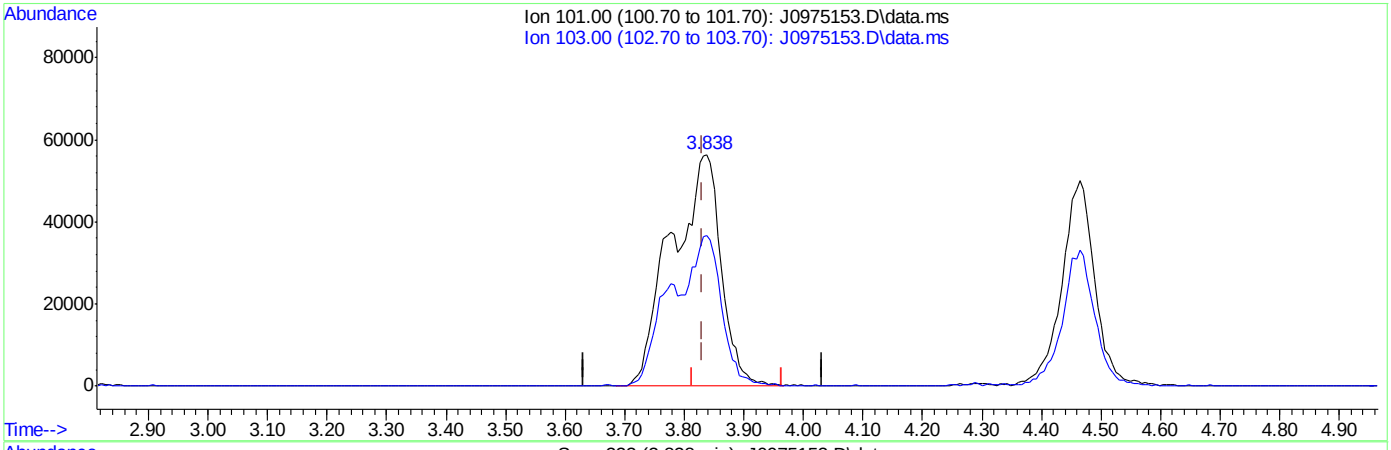
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	65.20
0.00	0.00	0.00
0.00	0.00	0.00

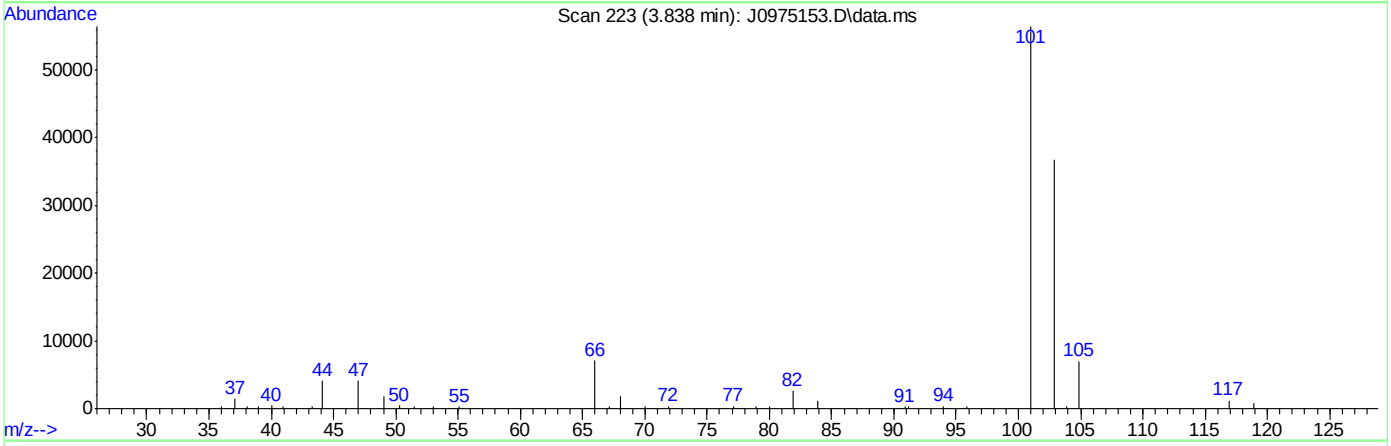
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 24.10ug/L m

response 324542

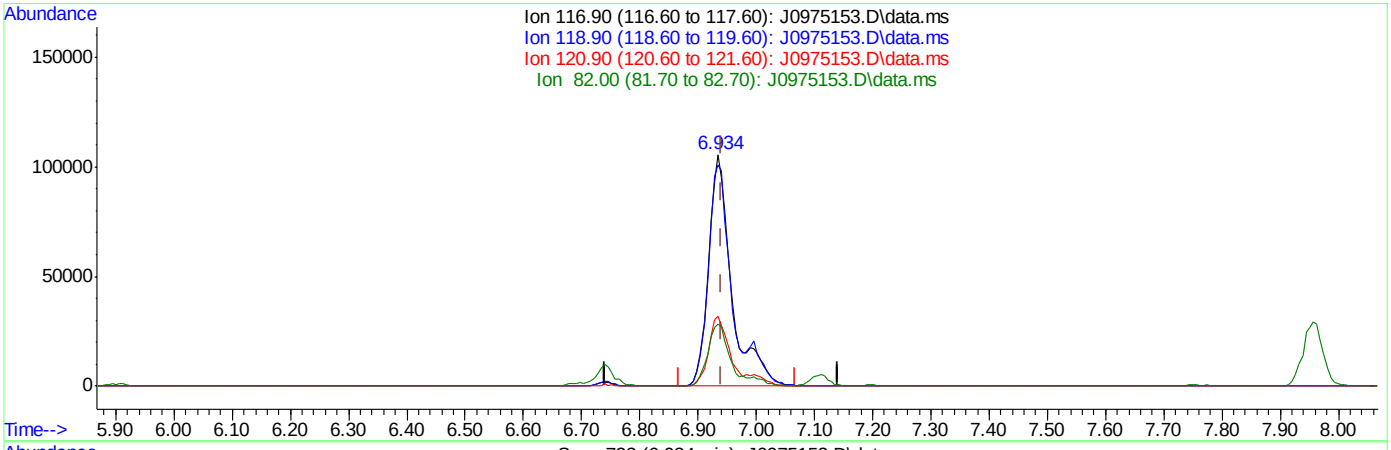
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	65.20
0.00	0.00	0.00
0.00	0.00	0.00

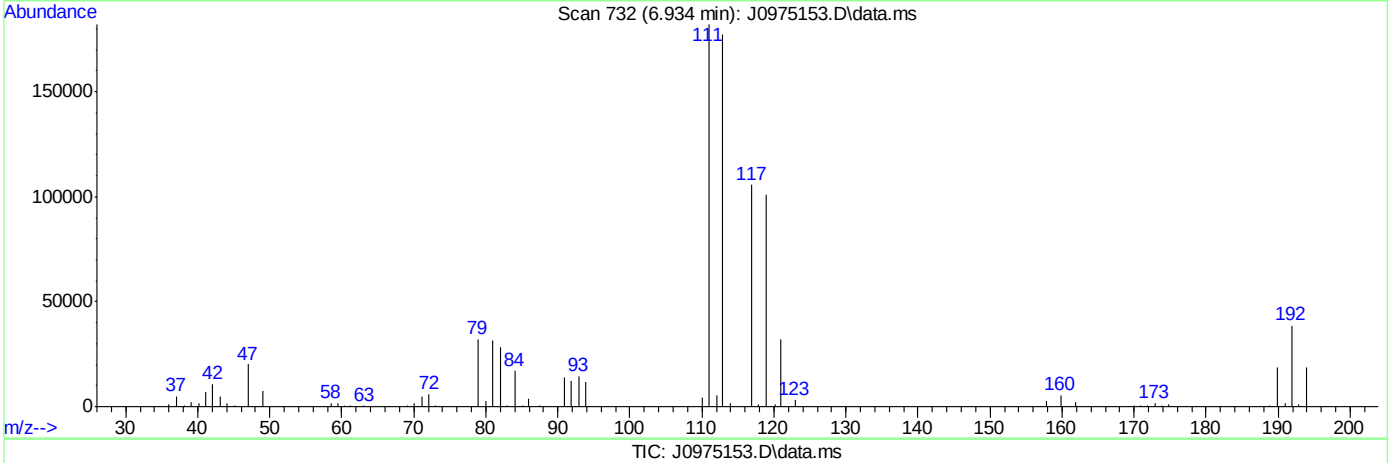
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 27.13ug/L

response 294752

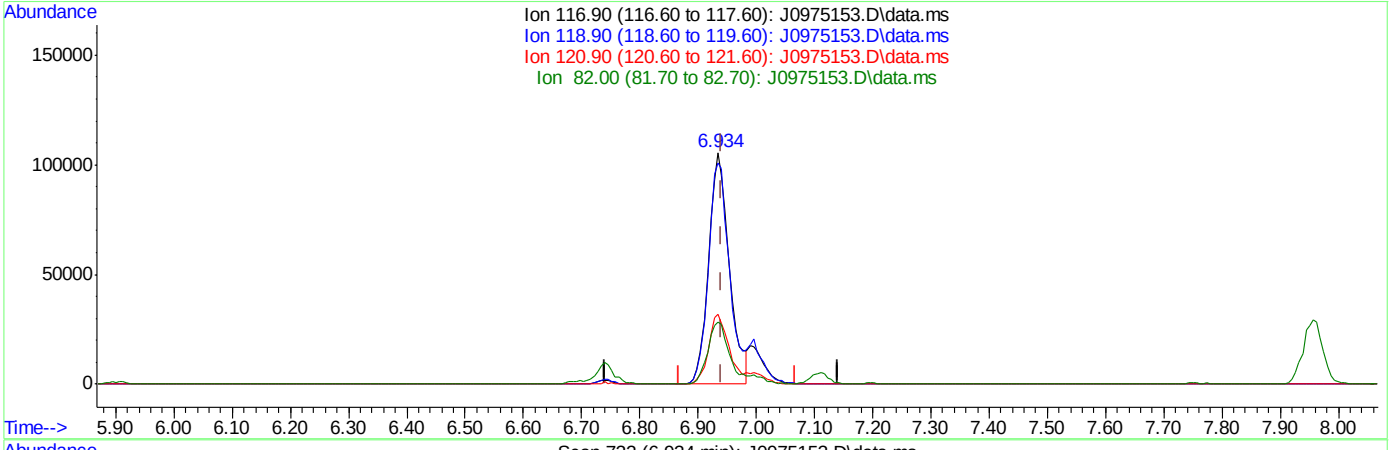
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.48
120.90	31.80	30.27
82.00	25.40	26.77

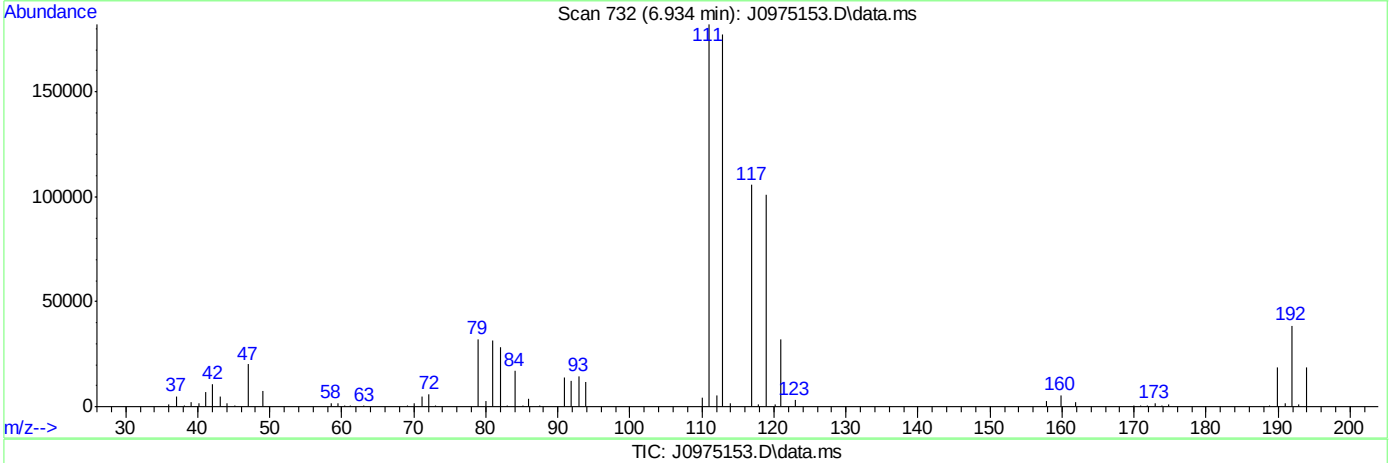
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 24.16ug/L m

response 262480

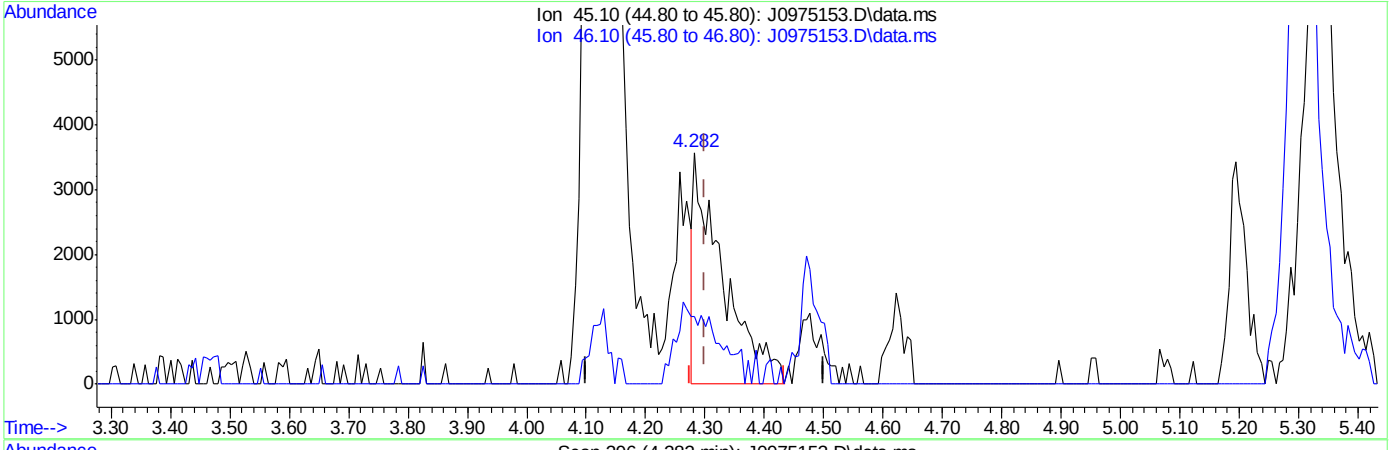
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.48
120.90	31.80	30.27
82.00	25.40	26.77

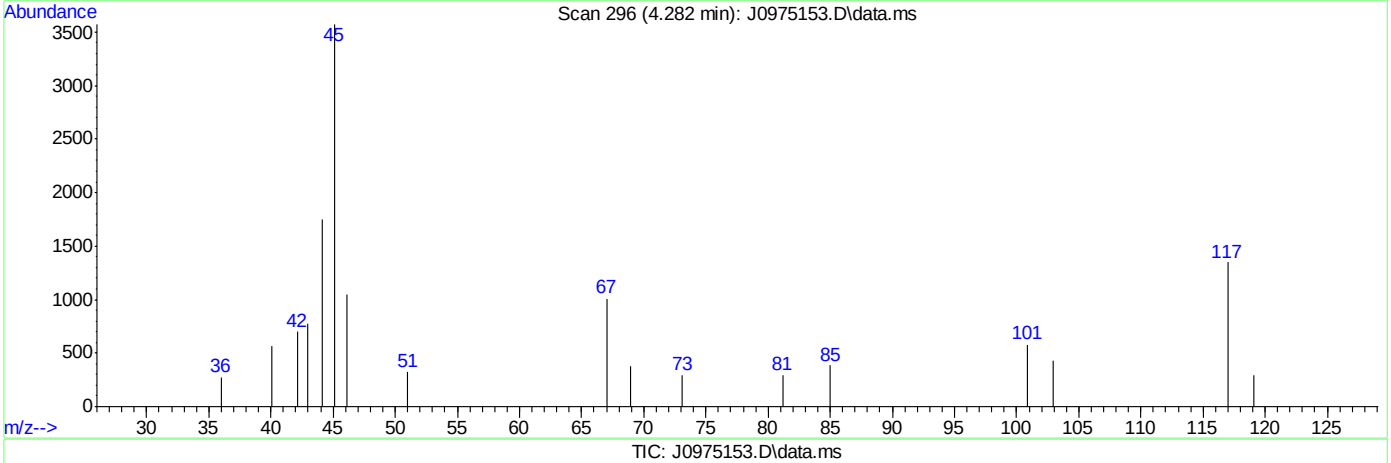
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(107) Ethanol

4.282min (-0.018) 352.95ug/L

response 12369

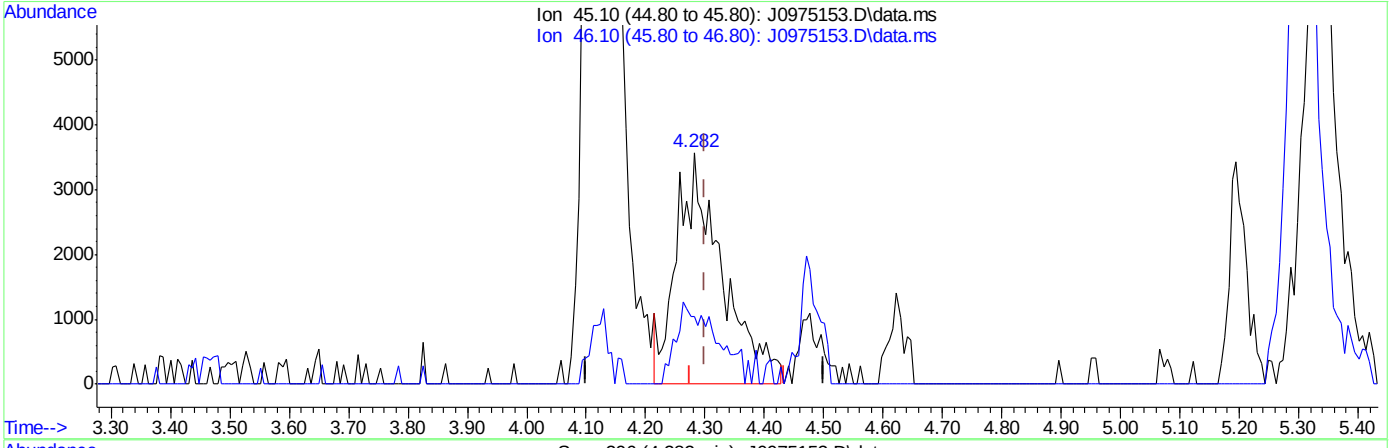
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.42
0.00	0.00	0.00
0.00	0.00	0.00

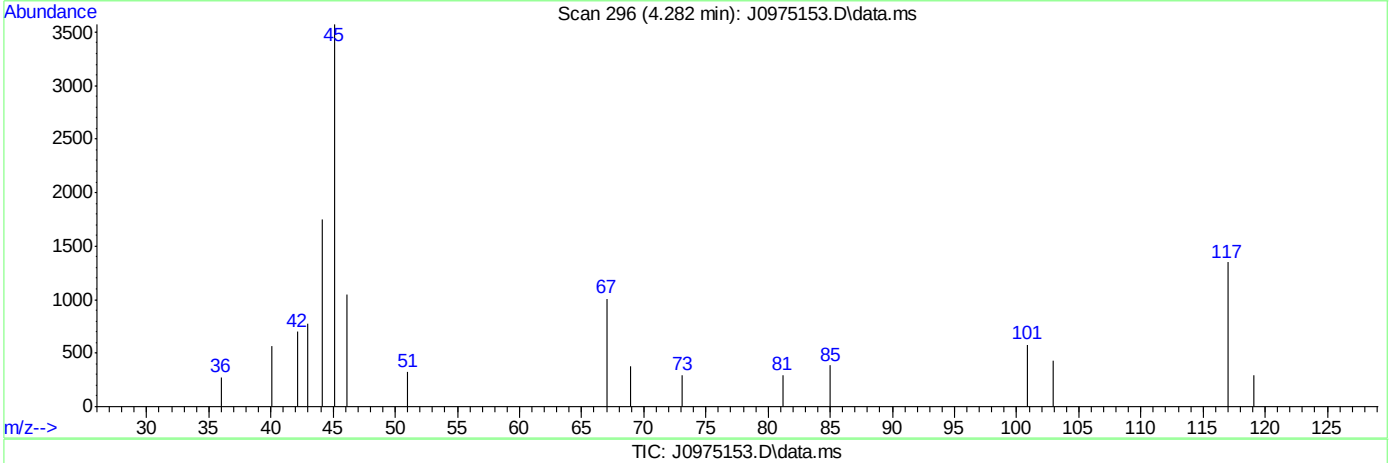
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(107) Ethanol

4.282min (-0.018) 535.26ug/L m

response 18758

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.42
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:22:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1586569	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1198090	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	683182	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	86536	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.929	113	408048	50.32	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.64%			
46) 1,2-Dichloroethane-d4	7.482	65	482966	49.31	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.62%			
57) Toluene-d8	9.301	98	1558079	49.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.28%			
79) 4-Bromofluorobenzene	12.057	95	616289	46.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	415271	39.15	ug/L	96
3) Chloromethane	2.901	50	424351	41.25	ug/L	100
4) Vinyl Chloride	3.041	62	445143	40.92	ug/L	94
5) 1,3-Butadiene	3.035	54	315692	36.10	ug/L	96
6) Bromomethane	3.461	94	289547	47.95	ug/L	99
7) Chloroethane	3.613	64	208091	40.89	ug/L	98
8) Trichlorofluoromethane	3.838	101	561191m	40.27	ug/L	
9) Ethyl Ether	4.118	59	255135	38.75	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.355	67	378597	40.65	ug/L	99
11) 1,1-Dichloroethene	4.392	61	464099	39.46	ug/L	98
12) Freon 113	4.465	101	322937	41.11	ug/L	99
13) Carbon Disulfide	4.471	76	980388	39.30	ug/L	97
14) Iodomethane	4.586	142	519003	40.30	ug/L	99
15) Allyl chloride	4.921	41	426981	38.56	ug/L	94
16) Methylene Chloride	5.043	49	421451	40.00	ug/L	95
17) Acetone	5.067	58	87983	194.56	ug/L	89
18) Methyl acetate	5.195	74	192440	205.15	ug/L	99
19) trans-1,2-Dichloroethene	5.225	61	434370	37.94	ug/L	98
20) Hexane	5.304	56	278304	39.05	ug/L	96
21) Methyl Tert Butyl Ether	5.335	73	873948	40.83	ug/L	83
22) Acetonitrile	5.584	40	111089	342.69	ug/L	91
23) Di-isopropyl ether	5.718	45	1011013	40.99	ug/L	99
24) Chloroprene	5.870	53	468107	38.53	ug/L	98
25) 1,1-Dichloroethane	5.900	63	571199	38.49	ug/L	99
26) Acrylonitrile	5.925	53	404863	196.86	ug/L	95
27) ETBE	6.113	59	1034777	41.91	ug/L	99
28) Vinyl acetate	6.113	43	2522469	204.32	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	375158	39.64	ug/L	96
30) 2,2-Dichloropropane	6.606	77	452177	40.61	ug/L	97
31) Bromochloromethane	6.685	128	170819	38.87	ug/L	98
32) Cyclohexane	6.734	56	547845	41.34	ug/L	95
33) Chloroform	6.740	83	640283	39.53	ug/L	97
34) Ethyl acetate	6.807	43	962139	195.12	ug/L	100

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:22:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	56284	39.45 ug/L	91
37) Carbon Tetrachloride	6.935	117	459299m	40.87 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	555621	40.77 ug/L	96
39) 2-Butanone	7.026	43	404230	187.23 ug/L	97
40) 1,1-Dichloropropene	7.105	75	441244	39.08 ug/L	98
41) tert-Butyl Formate	7.190	59	1946975	388.88 ug/L	90
42) Propionitrile	7.336	54	278535	371.24 ug/L	95
43) Methacrylonitrile	7.360	41	1256833	377.12 ug/L	95
44) Benzene	7.360	78	1357482	39.47 ug/L	99
45) TAME	7.433	73	922804	42.38 ug/L	98
47) 1,2-Dichloroethane	7.549	62	457821	38.56 ug/L	98
48) Trichloroethene	7.938	95	344581	37.99 ug/L	97
49) Methylcyclohexane	7.957	83	597642	41.74 ug/L	99
50) Dibromomethane	8.364	93	198020	41.96 ug/L	98
51) 1,2-Dichloropropane	8.449	63	342560	40.48 ug/L	97
52) Bromodichloromethane	8.498	83	445682	40.89 ug/L	99
53) Methyl methacrylate	8.595	41	181806	39.91 ug/L	97
54) 2-Chloroethyl vinyl ether	9.009	63	866218	193.77 ug/L	97
55) cis-1,3-Dichloropropene	9.113	75	520569	42.33 ug/L	97
58) Toluene	9.356	91	1409718	39.36 ug/L	99
59) 2-Nitropropane	9.557	41	283671	194.21 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	1017283	194.69 ug/L	99
61) trans-1,3-Dichloropropene	9.739	75	446417	43.29 ug/L	96
62) Tetrachloroethene	9.757	166	384918	37.75 ug/L	98
63) Ethyl methacrylate	9.843	69	339257	37.79 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	237256	40.26 ug/L	98
65) Dibromochloromethane	10.104	129	309572	40.48 ug/L	98
66) 1,3-Dichloropropane	10.183	76	483827	40.15 ug/L	98
67) 1,2-Dibromoethane	10.360	107	271883	42.33 ug/L	96
68) 2-hexanone	10.487	43	687786	193.52 ug/L	97
69) 1-Chlorohexane	10.798	91	435688	39.57 ug/L	98
70) Ethylbenzene	10.859	91	1639107	40.00 ug/L	100
71) Chlorobenzene	10.865	112	953873	40.30 ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.913	131	320629	41.79 ug/L	97
73) m,p-Xylene	10.998	91	2459561	81.21 ug/L	97
74) o-Xylene	11.436	91	1307404	41.63 ug/L	99
75) Styrene	11.485	104	993416	42.79 ug/L	98
76) Bromoform	11.546	173	185461	42.90 ug/L	98
77) Isopropylbenzene	11.741	105	1531567	40.66 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	90262	50.36 ug/L	94
81) n-Propylbenzene	12.160	91	1827678	38.36 ug/L	99
82) Bromobenzene	12.185	156	421116	38.09 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.221	83	342225	42.23 ug/L	100
84) 1,3,5-Trimethylbenzene	12.343	105	1426304	40.21 ug/L	100
85) 2-Chlorotoluene	12.349	91	1311770	38.02 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	83427	47.19 ug/L #	78
87) 1,2,3-Trichloropropane	12.385	110	88036	39.52 ug/L	95
88) Cyclohexanone	12.452	55	25515	187.91 ug/L	90
89) 4-Chlorotoluene	12.519	91	1204575	38.03 ug/L	99
90) a-Methyl Styrene	12.611	118	391096	39.49 ug/L	99

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:22:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.684	91	806108	38.54	ug/L		96
92)	1,2,4-Trimethylbenzene	12.751	105	1420845	40.00	ug/L		99
93)	Pentachloroethane	12.738	167	226954	42.38	ug/L		96
94)	sec-Butylbenzene	12.872	105	1692642	40.05	ug/L		98
95)	4-Isopropyltoluene	13.000	119	1429582	40.60	ug/L		97
96)	1,3-Dichlorobenzene	13.134	146	741697	39.18	ug/L		96
97)	1,4-Dichlorobenzene	13.219	146	774353	38.52	ug/L		94
98)	n-Butylbenzene	13.432	92	822978	40.81	ug/L		98
99)	Benzyl Chloride	13.450	126	117906	46.76	ug/L	#	74
100)	1,2-Dichlorobenzene	13.645	146	714095	41.52	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.381	75	52670	68.74	ug/L		93
102)	Hexachlorobutadiene	14.928	225	324044	56.03	ug/L		97
103)	1,2,4-Trichlorobenzene	14.971	180	547353	78.54	ug/L		97
104)	Naphthalene	15.257	128	877863	89.67	ug/L		100
105)	1,2,3-Trichlorobenzene	15.427	180	478341	93.59	ug/L		97
107)	Ethanol	4.276	45	29706m	791.51	ug/L		
108)	acrolein	4.757	56	206891	216.83	ug/L		92
109)	Tert Butyl Alcohol	5.377	59	171596	426.90	ug/L		83
110)	tert Amyl alcohol	7.573	59	128641	429.01	ug/L		95
111)	Isobutyl alcohol	7.452	42	123504	800.53	ug/L	#	86
112)	1,4-Dioxane	8.668	88	28170	735.12	ug/L		95
113)	3,3-Dimethyl-1-butanol	10.433	57	765808	2133.22	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.24

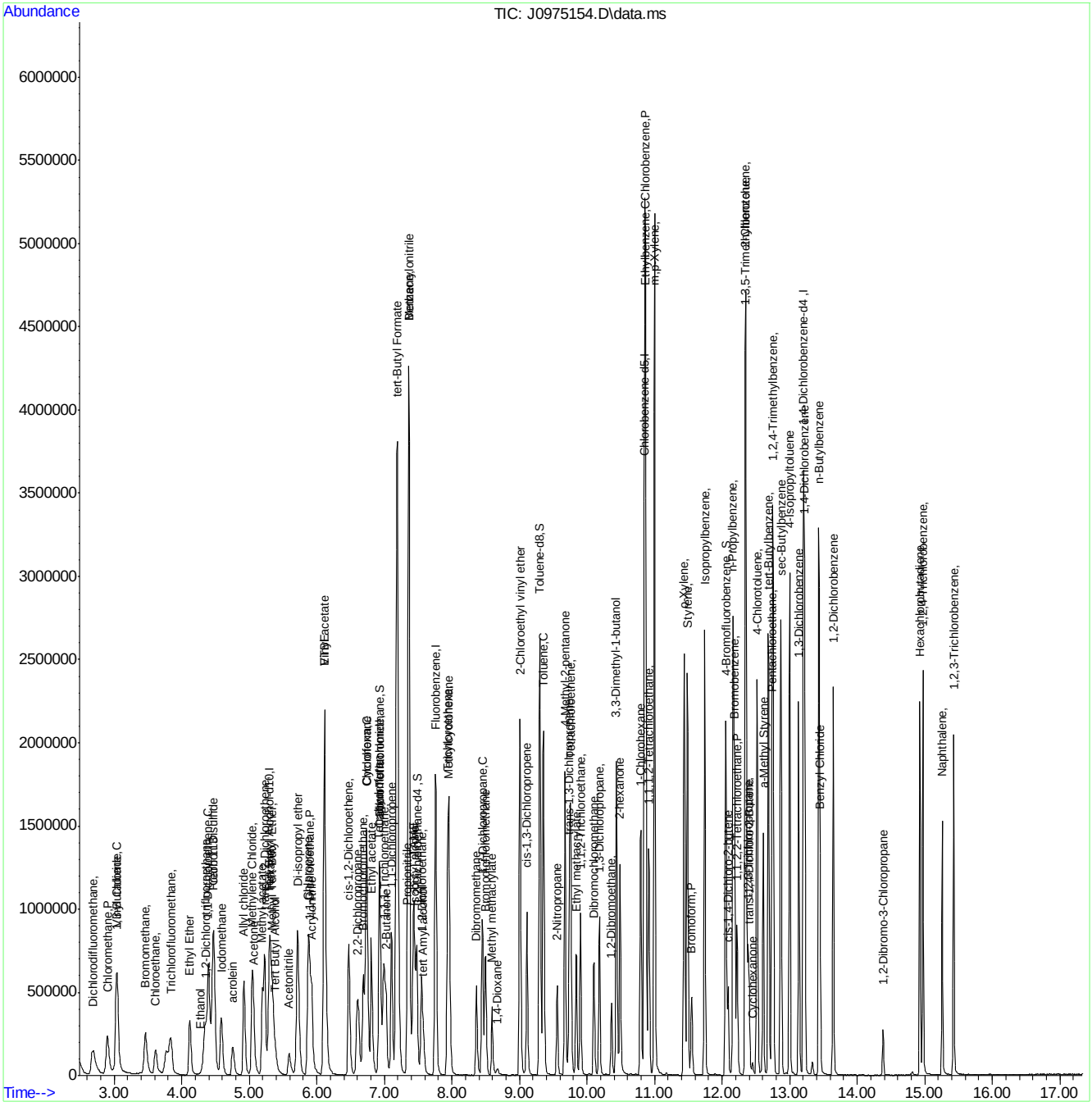
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:22:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

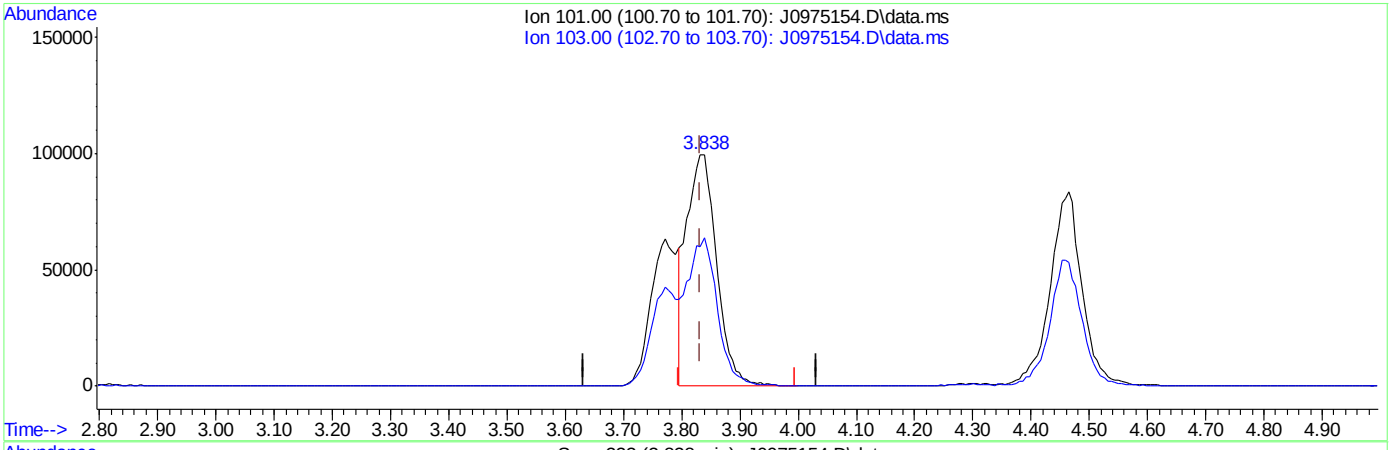
Sample Number:	VJ5237-ICC5237	**Method:**	SW846 8260B
Lab FileID:	J0975154.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 15:51	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

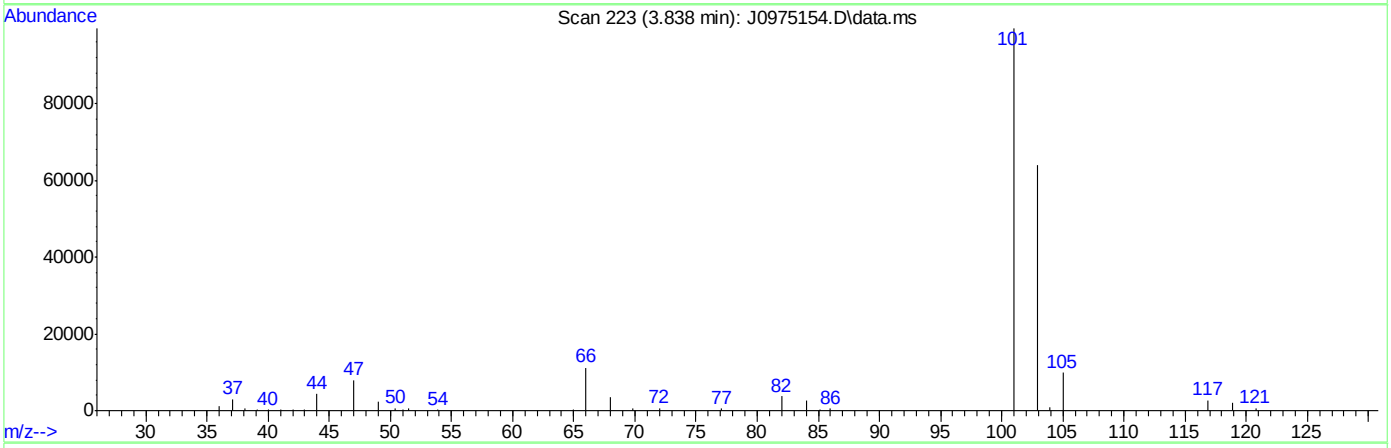
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 25.59ug/L

response 356542

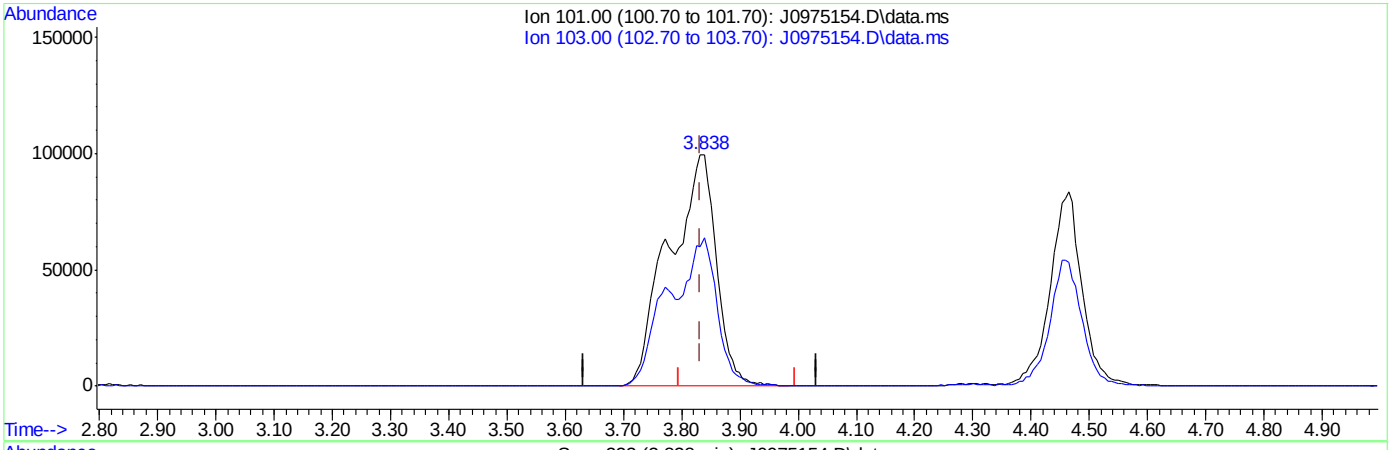
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.12
0.00	0.00	0.00
0.00	0.00	0.00

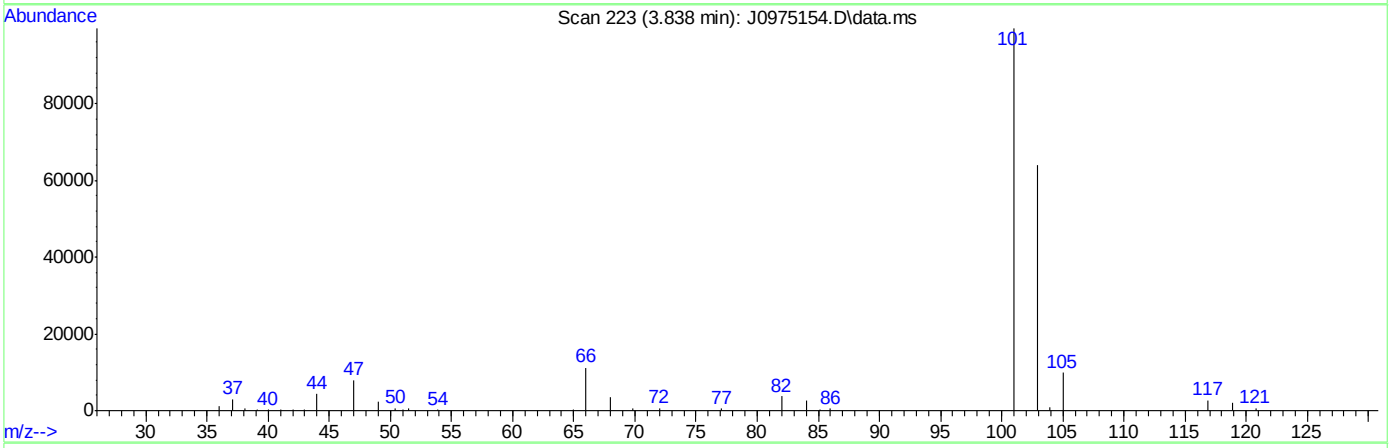
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 40.27ug/L m

response 561191

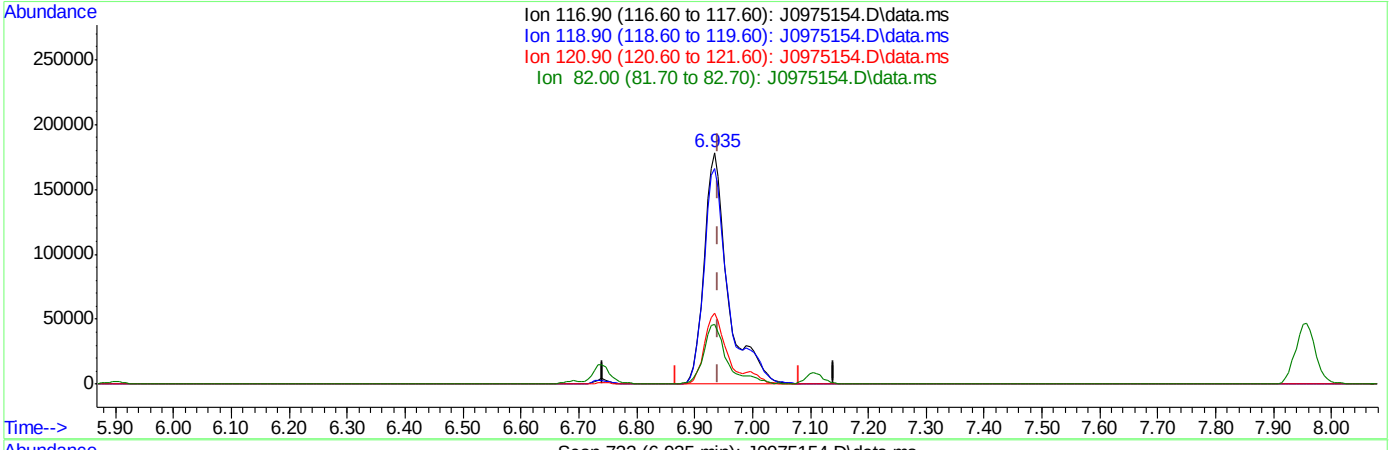
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.12
0.00	0.00	0.00
0.00	0.00	0.00

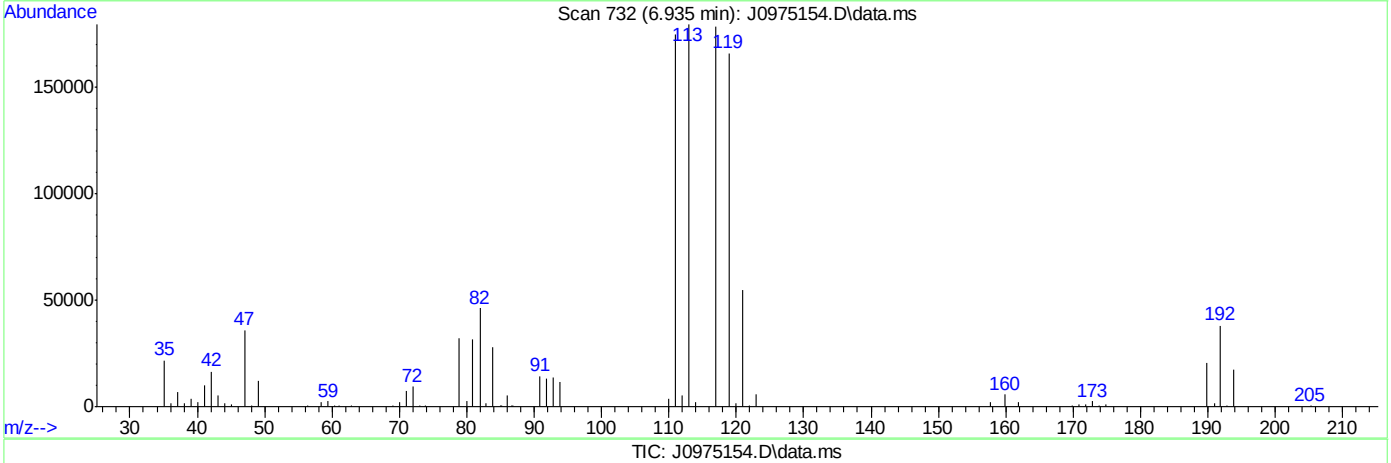
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 45.76ug/L

response 514333

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	92.97
120.90	31.80	30.81
82.00	25.40	25.83

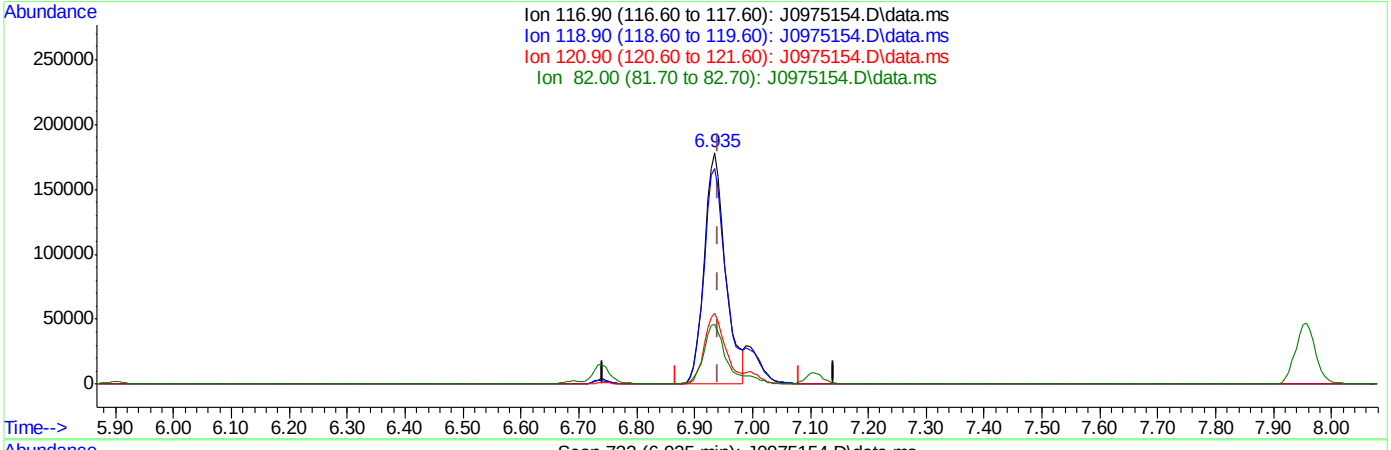
SGS ACCUTEST FA33788

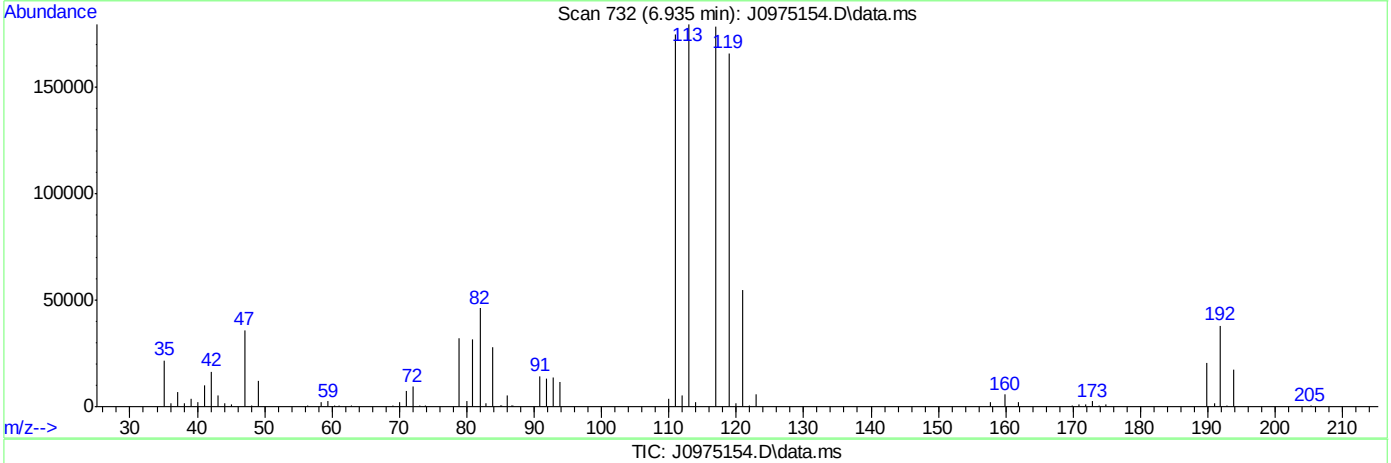
J0975154.D edits: Carbon Tetrachloride

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 40.87ug/L m

response 459299

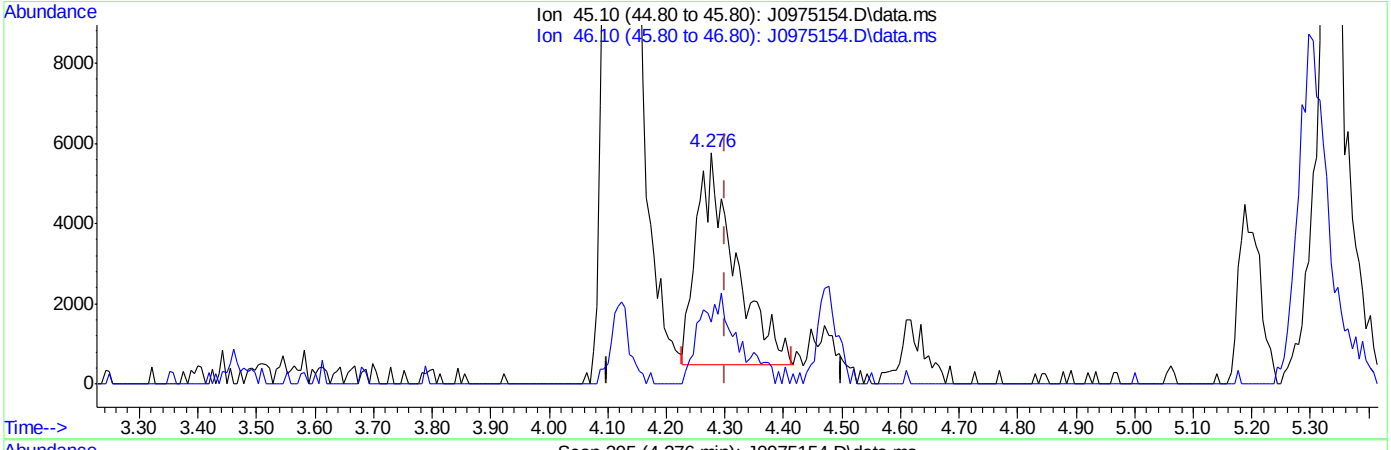
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	92.97
120.90	31.80	30.81
82.00	25.40	25.83

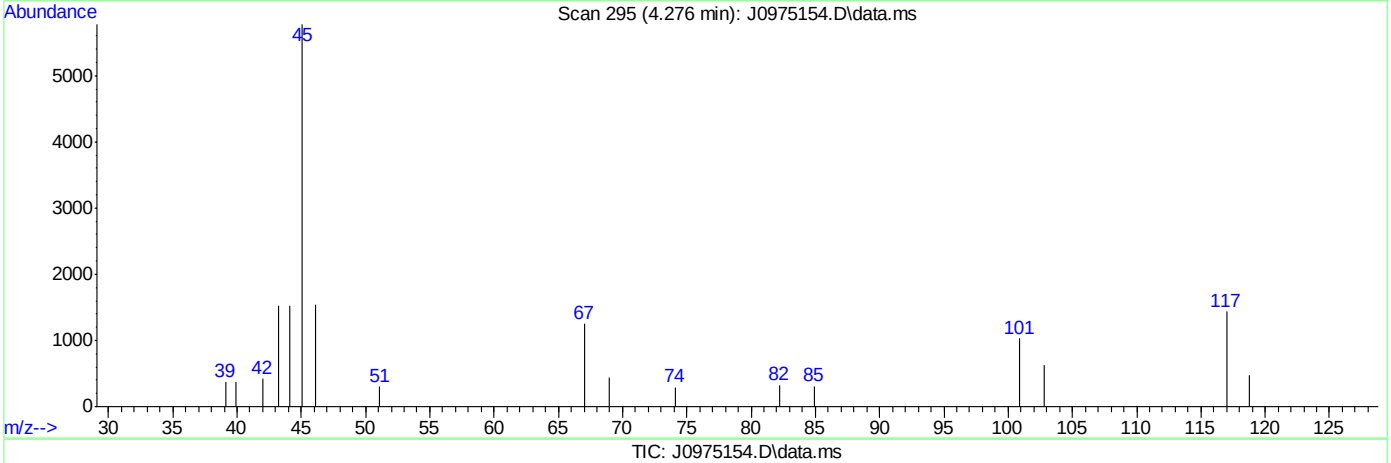
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(107) Ethanol

4.276min (-0.024) 648.61ug/L

response 24343

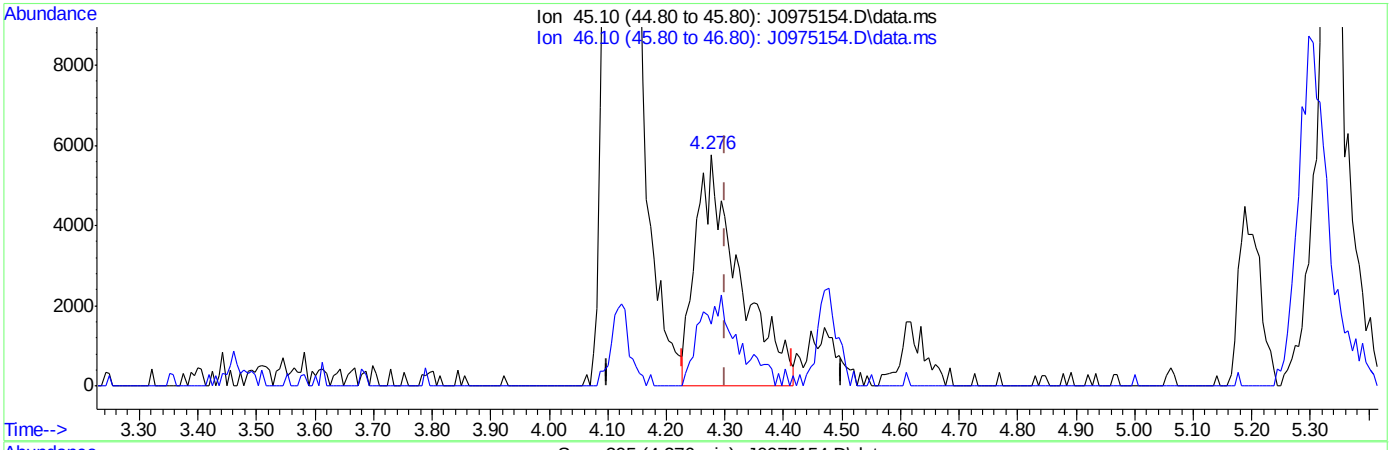
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.18
0.00	0.00	0.00
0.00	0.00	0.00

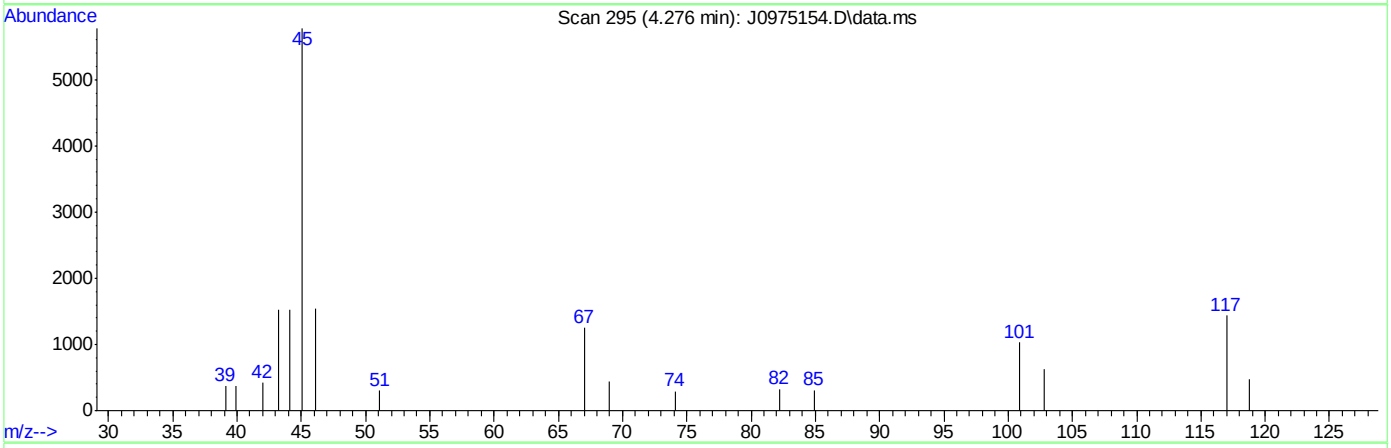
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(107) Ethanol

4.276min (-0.024) 791.51ug/L m

response 29706

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:23:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.762	96	1663509	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1267133	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	720297	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.310	65	95696	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	422774	49.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.46%			
46) 1,2-Dichloroethane-d4	7.482	65	502188	48.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.80%			
57) Toluene-d8	9.301	98	1644207	49.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.06%			
79) 4-Bromofluorobenzene	12.057	95	655388	47.38	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	796177	71.59	ug/L	96
3) Chloromethane	2.913	50	817162	76.83	ug/L	96
4) Vinyl Chloride	3.053	62	832466	72.98	ug/L	97
5) 1,3-Butadiene	3.047	54	615937	67.17	ug/L	99
6) Bromomethane	3.473	94	509770	111.69	ug/L	97
7) Chloroethane	3.613	64	367451	95.87	ug/L	96
8) Trichlorofluoromethane	3.844	101	1073506m	73.47	ug/L	
9) Ethyl Ether	4.124	59	462843	67.04	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.355	67	675216	69.14	ug/L	97
11) 1,1-Dichloroethene	4.404	61	863633	70.03	ug/L	97
12) Freon 113	4.464	101	586383	71.20	ug/L	96
13) Carbon Disulfide	4.477	76	1819367	69.56	ug/L	97
14) Iodomethane	4.592	142	943964	69.91	ug/L	99
15) Allyl chloride	4.927	41	878928	75.70	ug/L	95
16) Methylene Chloride	5.048	49	738336	68.18	ug/L	95
17) Acetone	5.073	58	174900	362.96	ug/L	95
18) Methyl acetate	5.195	74	349986	355.84	ug/L	98
19) trans-1,2-Dichloroethene	5.231	61	794113	66.14	ug/L	99
20) Hexane	5.304	56	503015	67.32	ug/L	98
21) Methyl Tert Butyl Ether	5.341	73	1582123	70.49	ug/L	79
22) Acetonitrile	5.596	40	224350	682.39	ug/L	95
23) Di-isopropyl ether	5.718	45	1816338	70.24	ug/L	97
24) Chloroprene	5.876	53	937188	73.58	ug/L	97
25) 1,1-Dichloroethane	5.900	63	1041124	66.92	ug/L	99
26) Acrylonitrile	5.925	53	796530	369.39	ug/L	97
27) ETBE	6.119	59	1850410	71.47	ug/L	99
28) Vinyl acetate	6.113	43	4549644	351.47	ug/L	95
29) cis-1,2-Dichloroethene	6.478	96	672081	67.73	ug/L	98
30) 2,2-Dichloropropane	6.612	77	833617	71.41	ug/L	96
31) Bromochloromethane	6.691	128	303789	65.93	ug/L	98
32) Cyclohexane	6.734	56	1006050	72.41	ug/L	97
33) Chloroform	6.740	83	1148321	67.61	ug/L	95
34) Ethyl acetate	6.807	43	1839719	355.84	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:23:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	102589	68.04 ug/L	94
37) Carbon Tetrachloride	6.934	117	845243m	71.73 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	1015151	71.04 ug/L	98
39) 2-Butanone	7.026	43	776266	343.13 ug/L	99
40) 1,1-Dichloropropene	7.105	75	815891	68.92 ug/L	100
41) tert-Butyl Formate	7.190	59	3673836	696.93 ug/L	94
42) Propionitrile	7.336	54	568454	722.62 ug/L	88
43) Methacrylonitrile	7.360	41	2411629	739.42 ug/L	97
44) Benzene	7.360	78	2463561	68.32 ug/L	99
45) TAME	7.433	73	1667655	73.05 ug/L	98
47) 1,2-Dichloroethane	7.549	62	807016	64.83 ug/L	98
48) Trichloroethene	7.938	95	645164	67.84 ug/L	97
49) Methylcyclohexane	7.956	83	1101854	73.40 ug/L	99
50) Dibromomethane	8.364	93	353388	71.42 ug/L	96
51) 1,2-Dichloropropane	8.449	63	612595	69.05 ug/L	97
52) Bromodichloromethane	8.498	83	821422	71.87 ug/L	99
53) Methyl methacrylate	8.595	41	369451	77.35 ug/L	95
54) 2-Chloroethyl vinyl ether	9.009	63	1668101	363.83 ug/L	97
55) cis-1,3-Dichloropropene	9.112	75	955569	74.12 ug/L	98
58) Toluene	9.356	91	2496299	68.91 ug/L	96
59) 2-Nitropropane	9.556	41	508815	329.36 ug/L	95
60) 4-Methyl-2-pentanone	9.672	43	1880700	340.32 ug/L	96
61) trans-1,3-Dichloropropene	9.739	75	809345	74.20 ug/L	97
62) Tetrachloroethene	9.757	166	694249	64.37 ug/L	99
63) Ethyl methacrylate	9.842	69	683133	71.80 ug/L	95
64) 1,1,2-Trichloroethane	9.903	83	425903	68.34 ug/L	99
65) Dibromochloromethane	10.104	129	569577	69.79 ug/L	98
66) 1,3-Dichloropropane	10.183	76	858931	67.39 ug/L	96
67) 1,2-Dibromoethane	10.359	107	486838	71.67 ug/L	99
68) 2-hexanone	10.487	43	1286975	342.39 ug/L	99
69) 1-Chlorohexane	10.797	91	815671	70.05 ug/L	96
70) Ethylbenzene	10.864	91	2858512	70.62 ug/L	93
71) Chlorobenzene	10.864	112	1693129	68.89 ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.913	131	585767	72.18 ug/L	100
73) m,p-Xylene	10.998	91	4082149	145.43 ug/L	87
74) o-Xylene	11.436	91	2326915	70.06 ug/L	96
75) Styrene	11.485	104	1796313	73.16 ug/L	96
76) Bromoform	11.552	173	352668	74.52 ug/L	98
77) Isopropylbenzene	11.740	105	2705718	71.65 ug/L	95
80) cis-1,4-Dichloro-2-butene	12.087	53	186907	98.90 ug/L	96
81) n-Propylbenzene	12.160	91	3164340	62.99 ug/L	93
82) Bromobenzene	12.185	156	766821	65.78 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.221	83	612245	71.66 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	2538671	67.87 ug/L	95
85) 2-Chlorotoluene	12.355	91	2343688	64.43 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.404	53	158679	81.31 ug/L	87
87) 1,2,3-Trichloropropane	12.385	110	161261	68.67 ug/L	98
88) Cyclohexanone	12.446	55	50911	355.62 ug/L	92
89) 4-Chlorotoluene	12.519	91	2142166	64.15 ug/L	96
90) a-Methyl Styrene	12.610	118	796296	76.25 ug/L	97

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:23:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.689	91	1460467	66.23	ug/L	99
92) 1,2,4-Trimethylbenzene	12.756	105	2491193	66.52	ug/L	96
93) Pentachloroethane	12.738	167	487790	79.67	ug/L	98
94) sec-Butylbenzene	12.872	105	2946134	66.12	ug/L	94
95) 4-Isopropyltoluene	13.000	119	2529417	68.14	ug/L	93
96) 1,3-Dichlorobenzene	13.134	146	1347196	67.49	ug/L	96
97) 1,4-Dichlorobenzene	13.219	146	1384060	65.31	ug/L	96
98) n-Butylbenzene	13.432	92	1525563	71.75	ug/L	90
99) Benzyl Chloride	13.450	126	222363	77.92	ug/L #	72
100) 1,2-Dichlorobenzene	13.645	146	1274423	70.28	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	14.381	75	96556	111.51	ug/L	91
102) Hexachlorobutadiene	14.928	225	589535	93.01	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	985671	123.30	ug/L	95
104) Naphthalene	15.257	128	1543756	130.98	ug/L	98
105) 1,2,3-Trichlorobenzene	15.427	180	835296	136.14	ug/L	98
107) Ethanol	4.288	45	57616m	1388.22	ug/L	
108) acrolein	4.756	56	411471	389.95	ug/L	93
109) Tert Butyl Alcohol	5.383	59	324763	730.62	ug/L	92
110) tert Amyl alcohol	7.579	59	246499	743.36	ug/L	95
111) Isobutyl alcohol	7.452	42	242482	1518.42	ug/L #	84
112) 1,4-Dioxane	8.674	88	53462	1261.60	ug/L	93
113) 3,3-Dimethyl-1-butanol	10.439	57	1553566	3668.90	ug/L	98

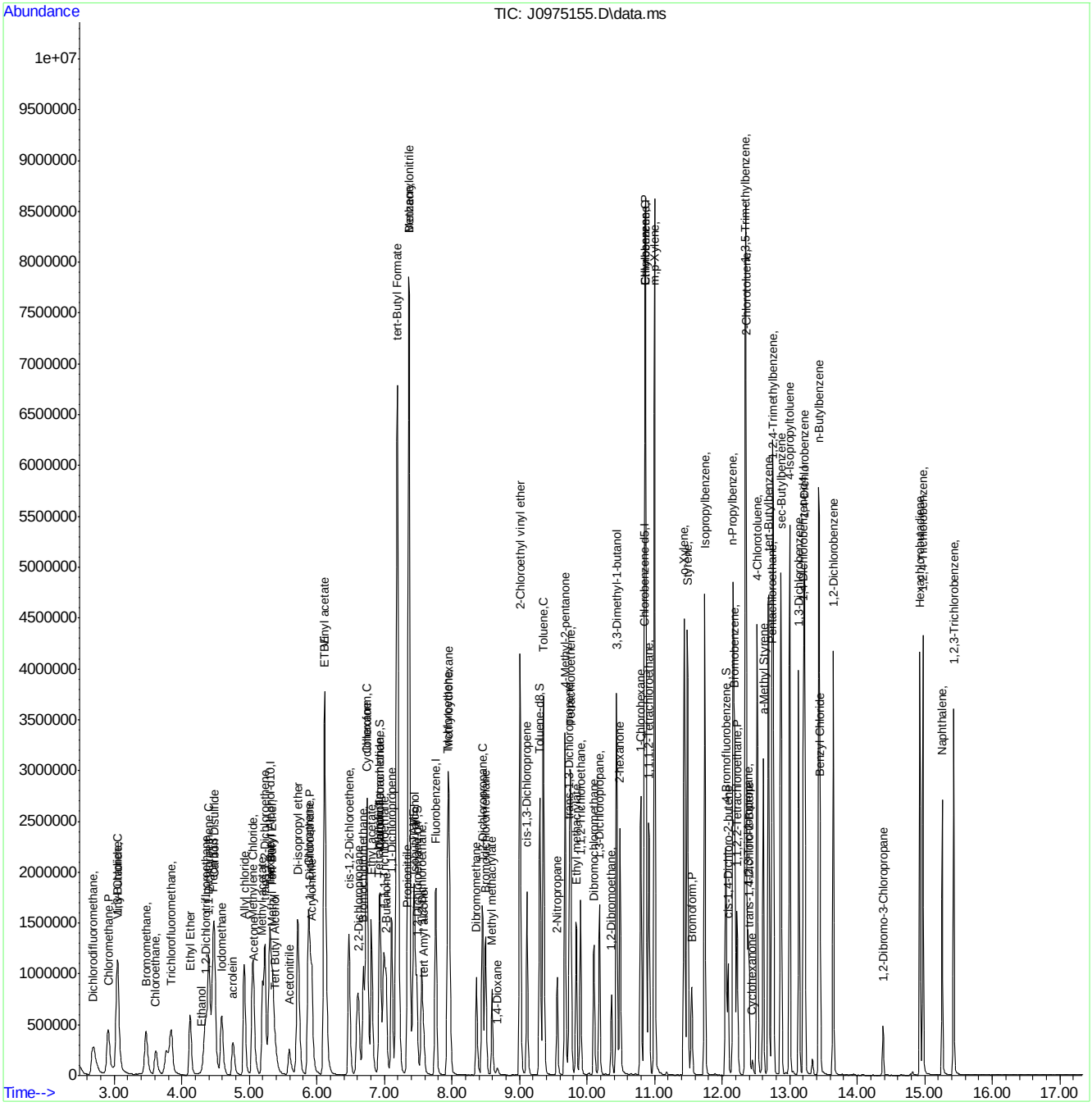
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:23:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

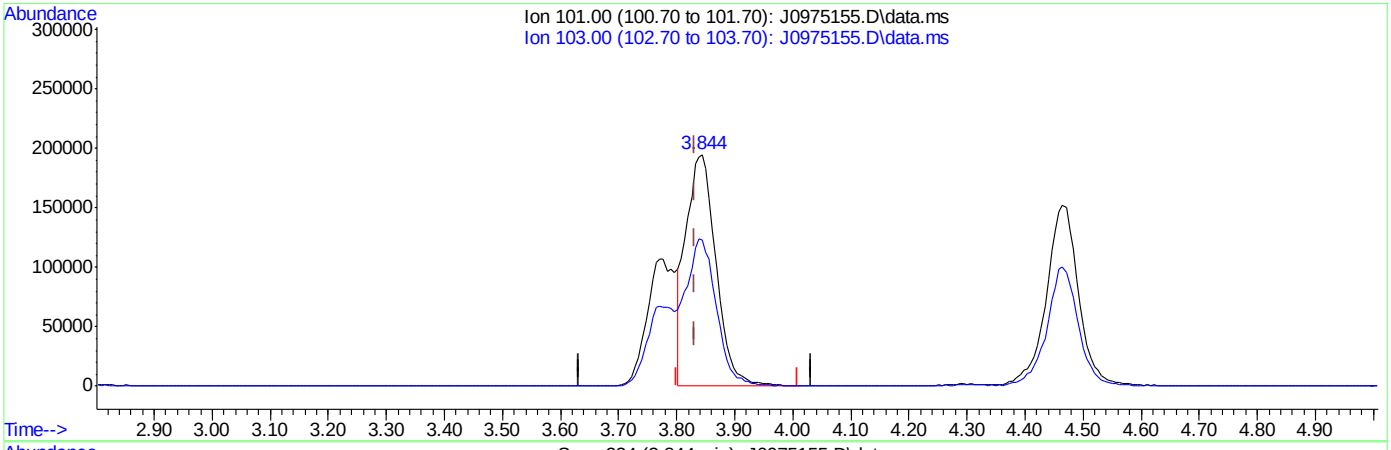
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975155.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 16:15	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

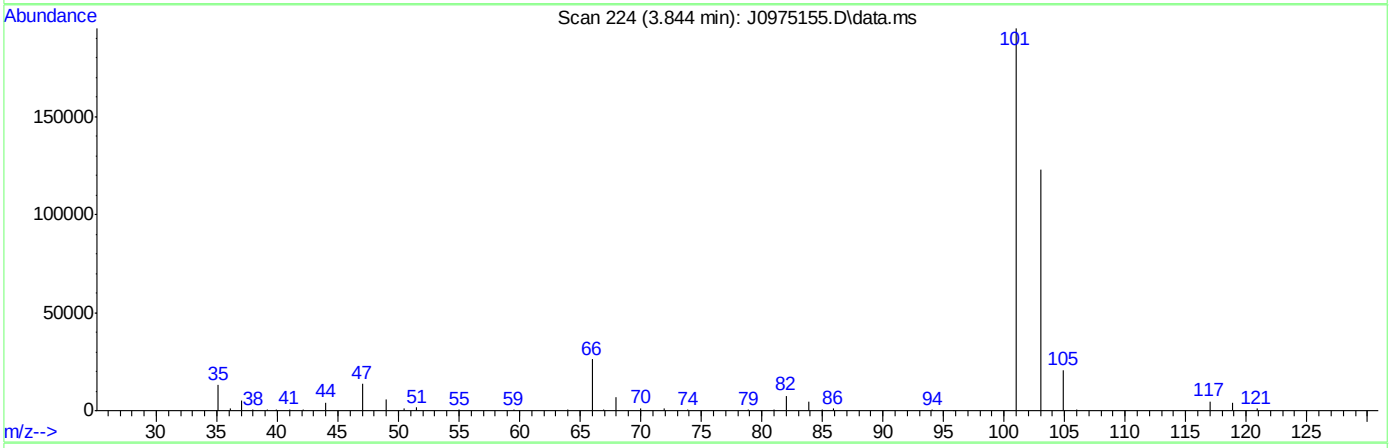
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.012) 47.92ug/L

response 700090

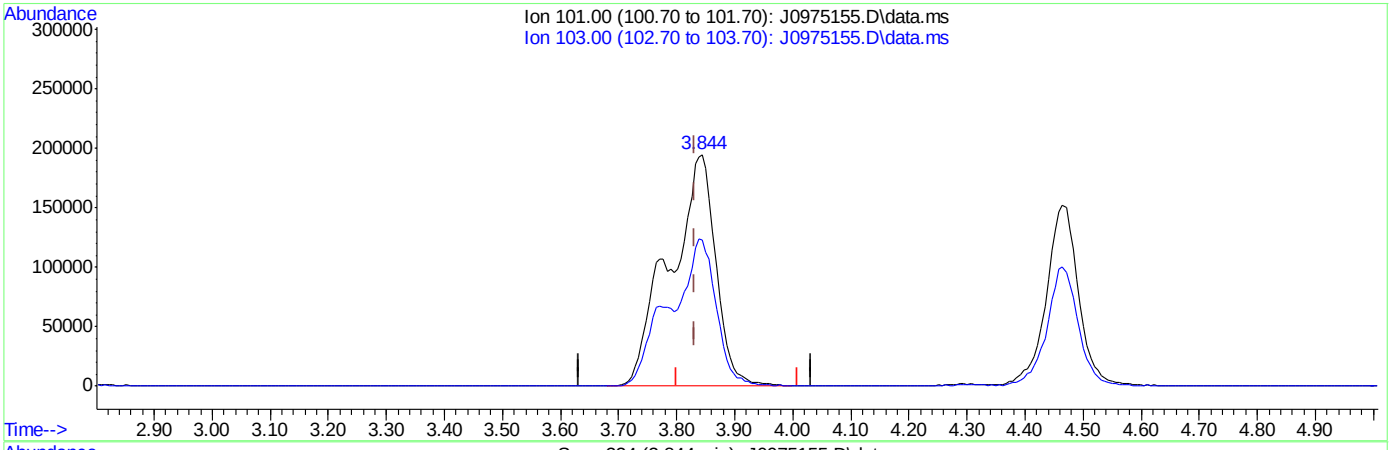
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.84
0.00	0.00	0.00
0.00	0.00	0.00

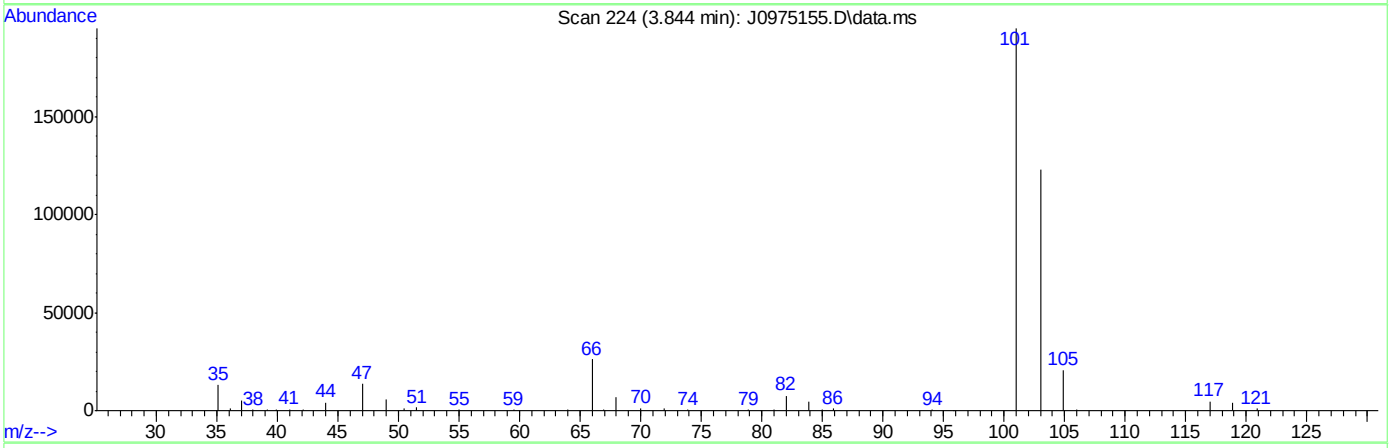
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.012) 73.47ug/L m

response 1073506

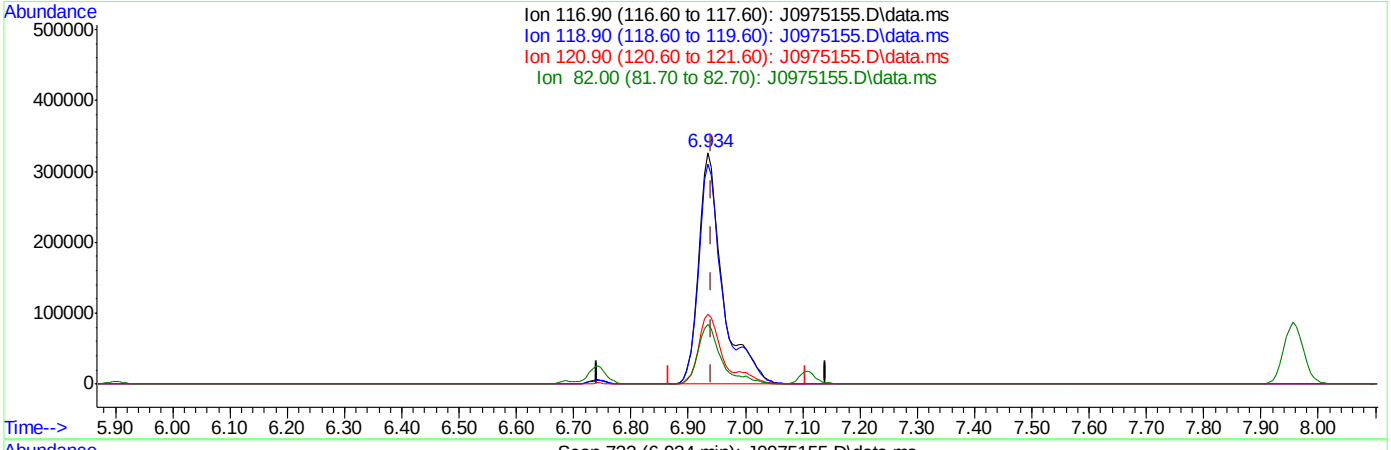
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.02
0.00	0.00	0.00
0.00	0.00	0.00

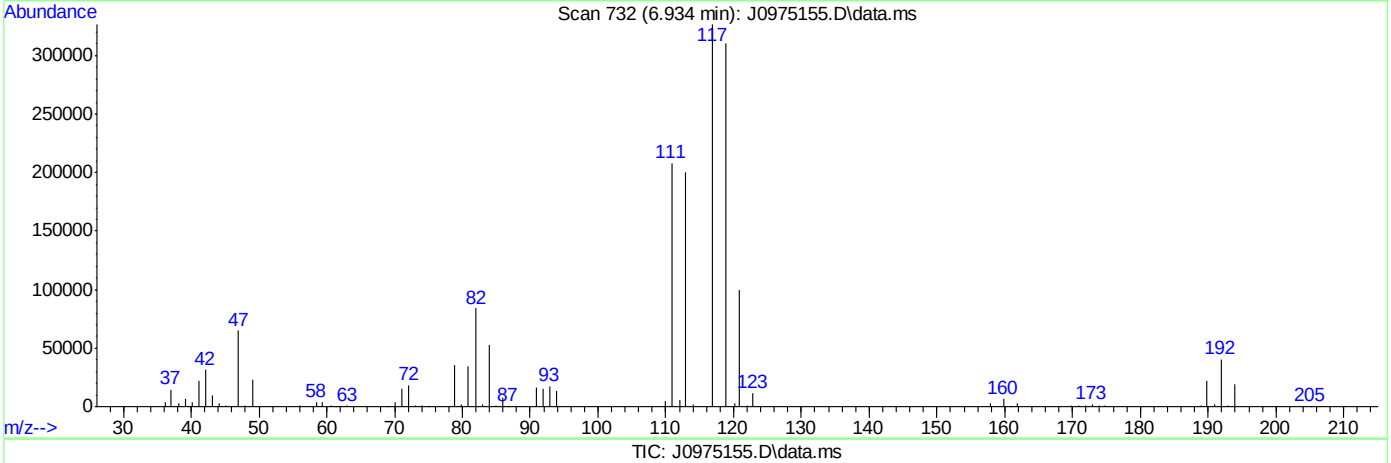
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 81.22ug/L

response 957149

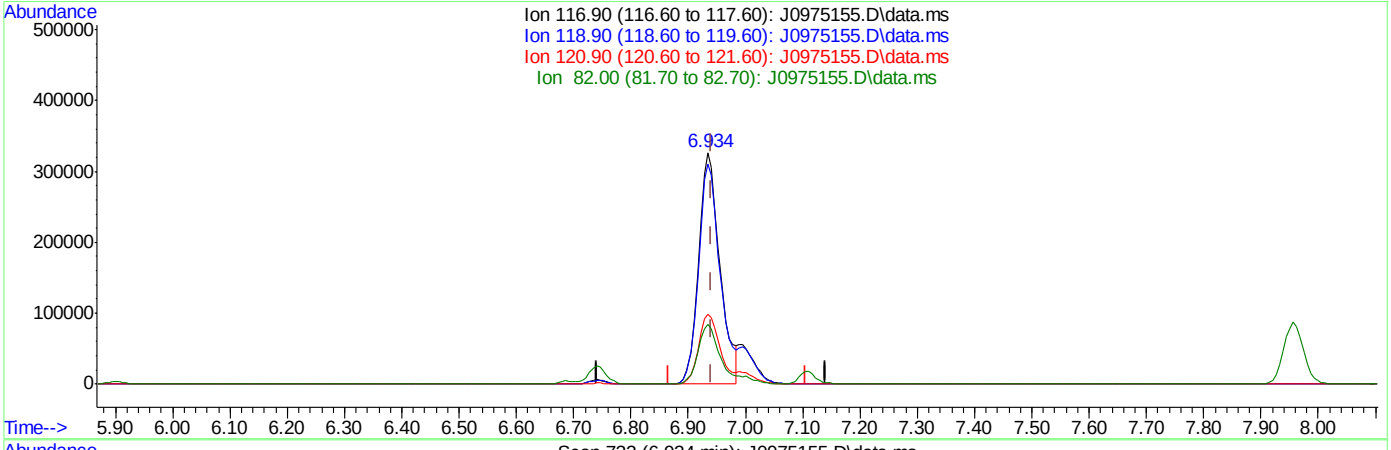
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.95
120.90	31.80	30.39
82.00	25.40	25.70

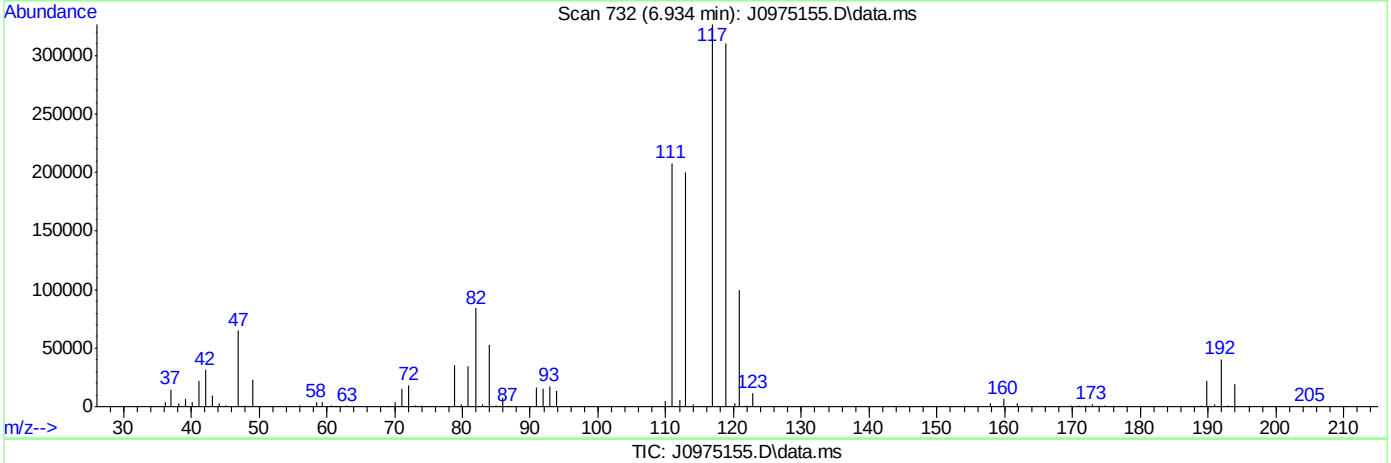
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 71.73ug/L m

response 845243

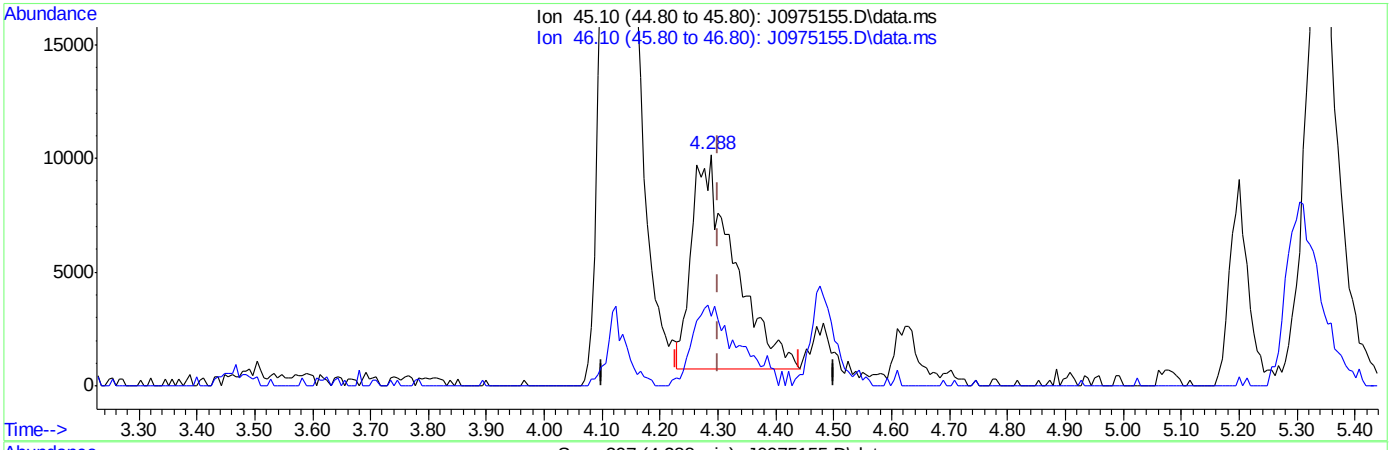
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.95
120.90	31.80	30.39
82.00	25.40	25.70

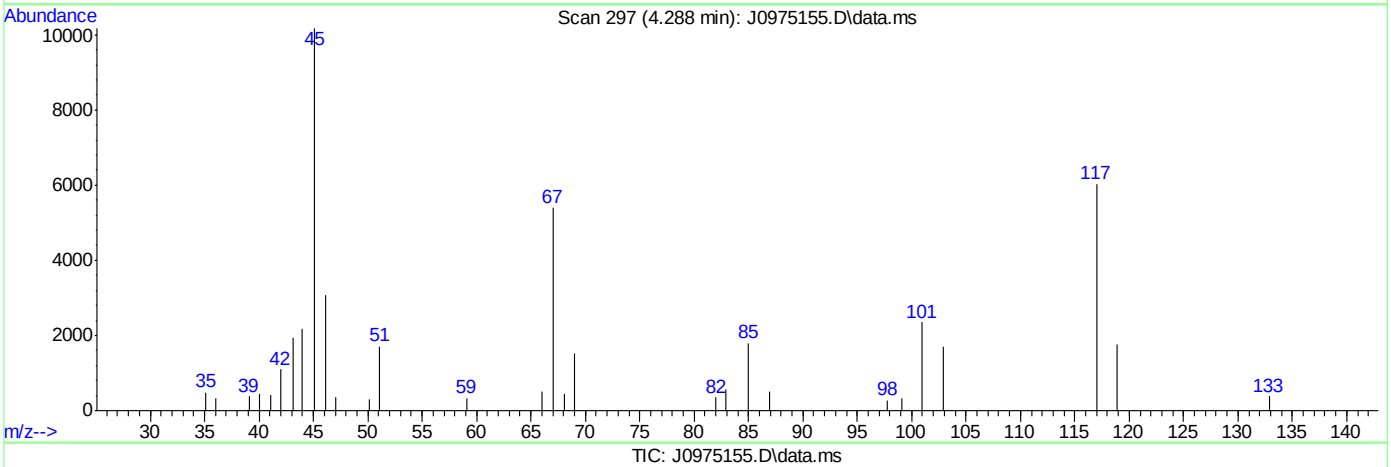
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(107) Ethanol

4.288min (-0.012) 1148.43ug/L

response 47664

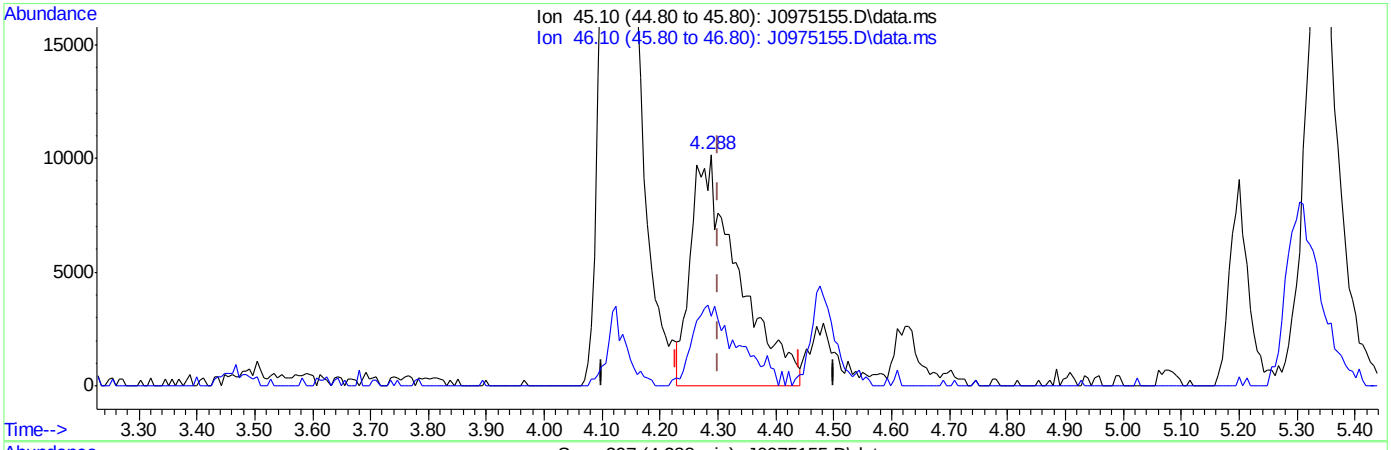
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	28.80
0.00	0.00	0.00
0.00	0.00	0.00

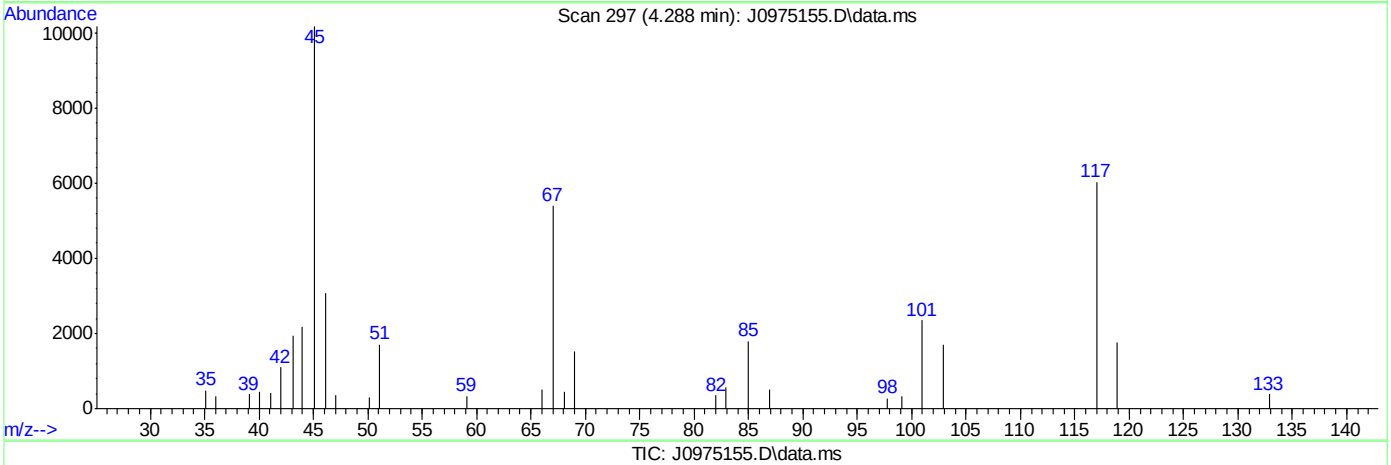
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(107) Ethanol

4.288min (-0.012) 1388.22ug/L m

response 57616

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	30.28
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

J0975156.D

Manual Integrations APPROVED (compounds with "m" flag)

Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:23:48 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1677660	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1313937	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	735618	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	101995	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	428253	49.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.90%			
46) 1,2-Dichloroethane-d4	7.482	65	498305	48.11	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.22%			
57) Toluene-d8	9.301	98	1661771	47.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.58%			
79) 4-Bromofluorobenzene	12.057	95	651178	46.10	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	1114041	99.32	ug/L	98
3) Chloromethane	2.907	50	1139732	107.58	ug/L	98
4) Vinyl Chloride	3.053	62	1151714	100.12	ug/L	99
5) 1,3-Butadiene	3.041	54	823142	89.01	ug/L	99
6) Bromomethane	3.467	94	633782	Below Cal		98
7) Chloroethane	3.613	64	426457	Below Cal		98
8) Trichlorofluoromethane	3.838	101	1422690m	96.55	ug/L	
9) Ethyl Ether	4.118	59	665052	95.52	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.349	67	982810	99.79	ug/L	98
11) 1,1-Dichloroethene	4.398	61	1255822	100.97	ug/L	95
12) Freon 113	4.465	101	862244	103.81	ug/L	98
13) Carbon Disulfide	4.471	76	2701494	102.41	ug/L	97
14) Iodomethane	4.586	142	1402340	102.98	ug/L	99
15) Allyl chloride	4.921	41	1179323	100.72	ug/L	95
16) Methylene Chloride	5.043	49	1070637	100.32	ug/L	96
17) Acetone	5.073	58	238474	485.07	ug/L	96
18) Methyl acetate	5.195	74	510159	514.32	ug/L #	88
19) trans-1,2-Dichloroethene	5.225	61	1150951	95.06	ug/L	98
20) Hexane	5.298	56	722765	95.92	ug/L	97
21) Methyl Tert Butyl Ether	5.341	73	2289989	101.17	ug/L	76
22) Acetonitrile	5.590	40	307391	952.74	ug/L	94
23) Di-isopropyl ether	5.718	45	2611639	100.14	ug/L	98
24) Chloroprene	5.870	53	1282244	99.82	ug/L	97
25) 1,1-Dichloroethane	5.900	63	1517500	96.71	ug/L	99
26) Acrylonitrile	5.925	53	1057913	486.47	ug/L	99
27) ETBE	6.119	59	2687192	102.92	ug/L	99
28) Vinyl acetate	6.113	43	5725222	438.56	ug/L	93
29) cis-1,2-Dichloroethene	6.472	96	986636	98.59	ug/L	98
30) 2,2-Dichloropropane	6.606	77	1229663	104.45	ug/L	99
31) Bromochloromethane	6.685	128	440819	94.86	ug/L	98
32) Cyclohexane	6.734	56	1493354	106.58	ug/L	93
33) Chloroform	6.740	83	1662786	97.08	ug/L	97
34) Ethyl acetate	6.807	43	2494873	478.48	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:23:48 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	141622	92.52 ug/L	96
37) Carbon Tetrachloride	6.935	117	1240589m	104.39 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	1496888	103.86 ug/L	98
39) 2-Butanone	7.026	43	1085834	476.16 ug/L	99
40) 1,1-Dichloropropene	7.105	75	1191218	99.78 ug/L	97
41) tert-Butyl Formate	7.190	59	5144797	964.23 ug/L	96
42) Propionitrile	7.336	54	751362	947.07 ug/L	95
43) Methacrylonitrile	7.366	41	3085566	985.97 ug/L	95
44) Benzene	7.360	78	3537446	97.27 ug/L	99
45) TAME	7.433	73	2430907	105.58 ug/L	97
47) 1,2-Dichloroethane	7.549	62	1159083	92.33 ug/L	99
48) Trichloroethene	7.938	95	938979	97.90 ug/L	98
49) Methylcyclohexane	7.957	83	1648708	108.90 ug/L	98
50) Dibromomethane	8.358	93	503424	100.88 ug/L	99
51) 1,2-Dichloropropane	8.449	63	890414	99.51 ug/L	99
52) Bromodichloromethane	8.498	83	1197814	103.92 ug/L	98
53) Methyl methacrylate	8.589	41	499600	103.72 ug/L	96
54) 2-Chloroethyl vinyl ether	9.009	63	2357081	520.45 ug/L	97
55) cis-1,3-Dichloropropene	9.112	75	1392882	107.12 ug/L	97
58) Toluene	9.356	91	3511420	97.88 ug/L	92
59) 2-Nitropropane	9.557	41	742165	463.29 ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	2582624	450.69 ug/L	93
61) trans-1,3-Dichloropropene	9.739	75	1174760	103.87 ug/L	96
62) Tetrachloroethene	9.757	166	1098957	98.27 ug/L	99
63) Ethyl methacrylate	9.836	69	951549	96.29 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	612697	94.81 ug/L	99
65) Dibromochloromethane	10.104	129	838584	98.24 ug/L	98
66) 1,3-Dichloropropane	10.183	76	1234537	93.41 ug/L	97
67) 1,2-Dibromoethane	10.360	107	705132	100.10 ug/L	99
68) 2-hexanone	10.487	43	1797070	461.06 ug/L	98
69) 1-Chlorohexane	10.798	91	1201715	99.52 ug/L	96
70) Ethylbenzene	10.865	91	3913054	100.03 ug/L	85
71) Chlorobenzene	10.865	112	2454813	98.17 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.913	131	865611	102.87 ug/L	98
73) m,p-Xylene	10.998	91	5199315	206.12 ug/L	71
74) o-Xylene	11.436	91	3274848	95.09 ug/L	92
75) Styrene	11.485	104	2597936	102.05 ug/L	94
76) Bromoform	11.552	173	526813	104.07 ug/L	97
77) Isopropylbenzene	11.741	105	3763480	101.47 ug/L	88
80) cis-1,4-Dichloro-2-butene	12.087	53	246701	127.83 ug/L	93
81) n-Propylbenzene	12.160	91	4262827	83.09 ug/L	84
82) Bromobenzene	12.185	156	1120243	94.09 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.221	83	876296	100.43 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	3530308	92.42 ug/L	87
85) 2-Chlorotoluene	12.355	91	3292953	88.64 ug/L	90
86) trans-1,4-Dichloro-2-B...	12.404	53	229741	110.96 ug/L	90
87) 1,2,3-Trichloropropane	12.385	110	229231	95.58 ug/L	99
88) Cyclohexanone	12.446	55	67015	458.36 ug/L	91
89) 4-Chlorotoluene	12.519	91	3036759	89.04 ug/L	91
90) a-Methyl Styrene	12.611	118	1117515	104.79 ug/L	98

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:23:48 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.690	91	2134042	94.76	ug/L	96
92) 1,2,4-Trimethylbenzene	12.750	105	3474573	90.84	ug/L	89
93) Pentachloroethane	12.738	167	615420	95.31	ug/L	98
94) sec-Butylbenzene	12.872	105	4048307	88.96	ug/L	85
95) 4-Isopropyltoluene	13.000	119	3526930	93.03	ug/L	87
96) 1,3-Dichlorobenzene	13.134	146	1945931	95.46	ug/L	96
97) 1,4-Dichlorobenzene	13.225	146	2004086	92.60	ug/L	97
98) n-Butylbenzene	13.432	92	2222818	102.37	ug/L #	80
99) Benzyl Chloride	13.450	126	334209	107.65	ug/L #	66
100) 1,2-Dichlorobenzene	13.645	146	1853570	100.08	ug/L	96
101) 1,2-Dibromo-3-Chloropr...	14.381	75	142658	151.74	ug/L	92
102) Hexachlorobutadiene	14.928	225	909906	134.80	ug/L	97
103) 1,2,4-Trichlorobenzene	14.971	180	1467882	166.70	ug/L	97
104) Naphthalene	15.257	128	2248808	168.08	ug/L	95
105) 1,2,3-Trichlorobenzene	15.427	180	1258478	178.93	ug/L	97
107) Ethanol	4.276	45	78200m	1767.82	ug/L	
108) acrolein	4.757	56	572291	508.87	ug/L	94
109) Tert Butyl Alcohol	5.383	59	462156	975.50	ug/L	96
110) tert Amyl alcohol	7.579	59	364351	1030.91	ug/L	97
111) Isobutyl alcohol	7.458	42	326293	2011.49	ug/L	95
112) 1,4-Dioxane	8.674	88	75690	1675.83	ug/L	93
113) 3,3-Dimethyl-1-butanol	10.439	57	2227836	4731.75	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.26

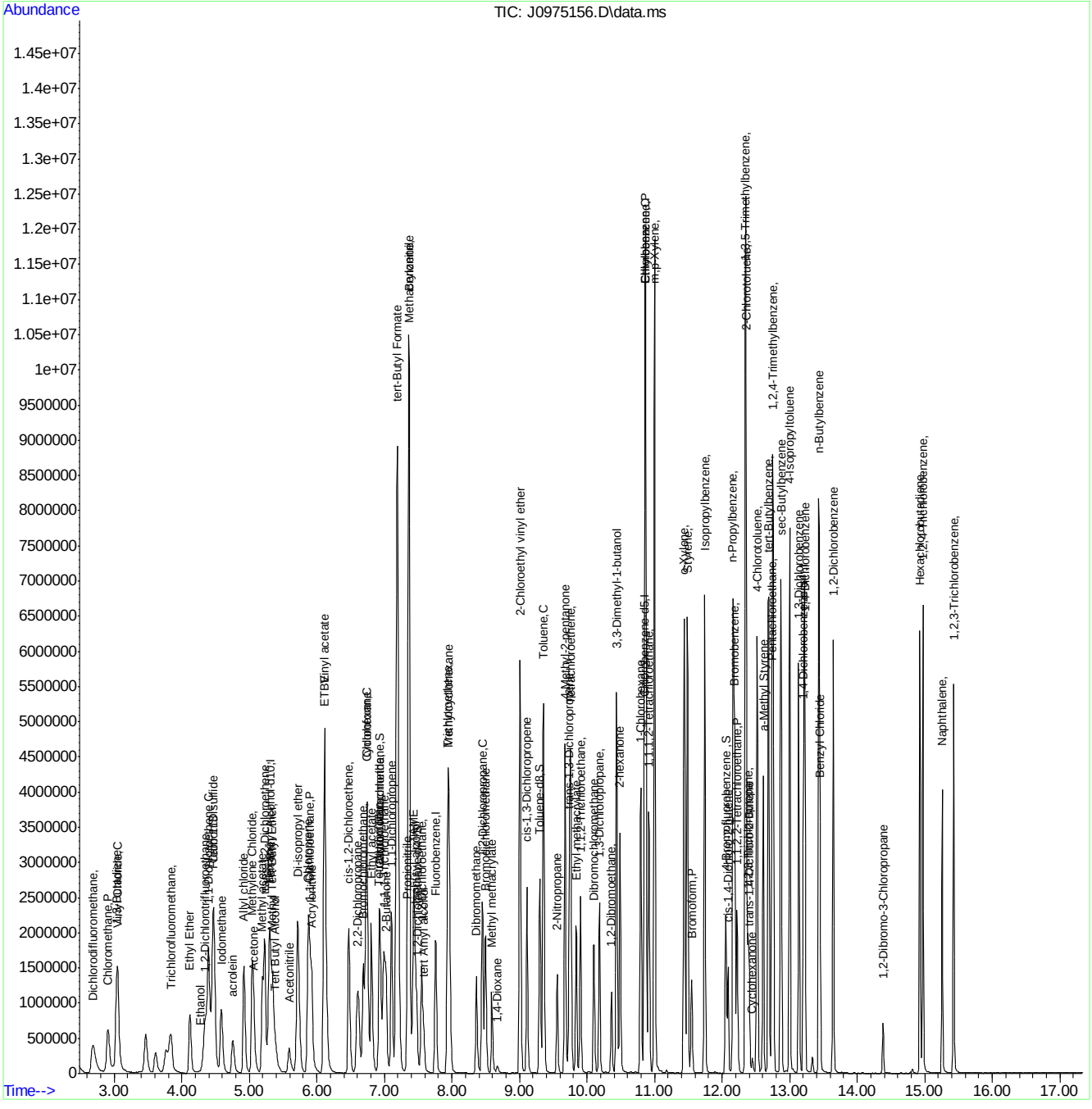
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:23:48 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

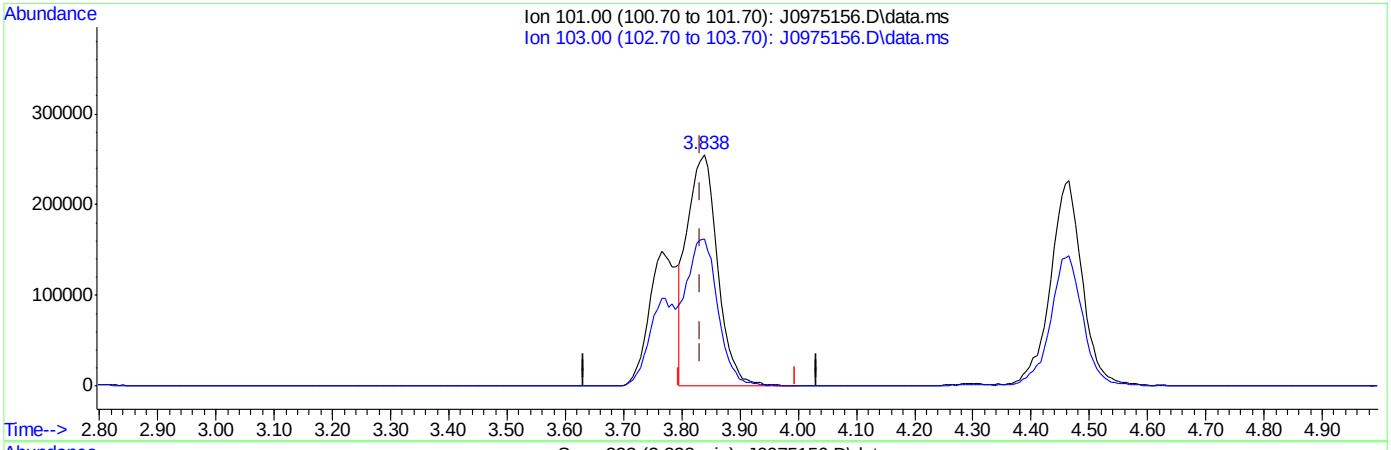
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975156.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 16:39	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

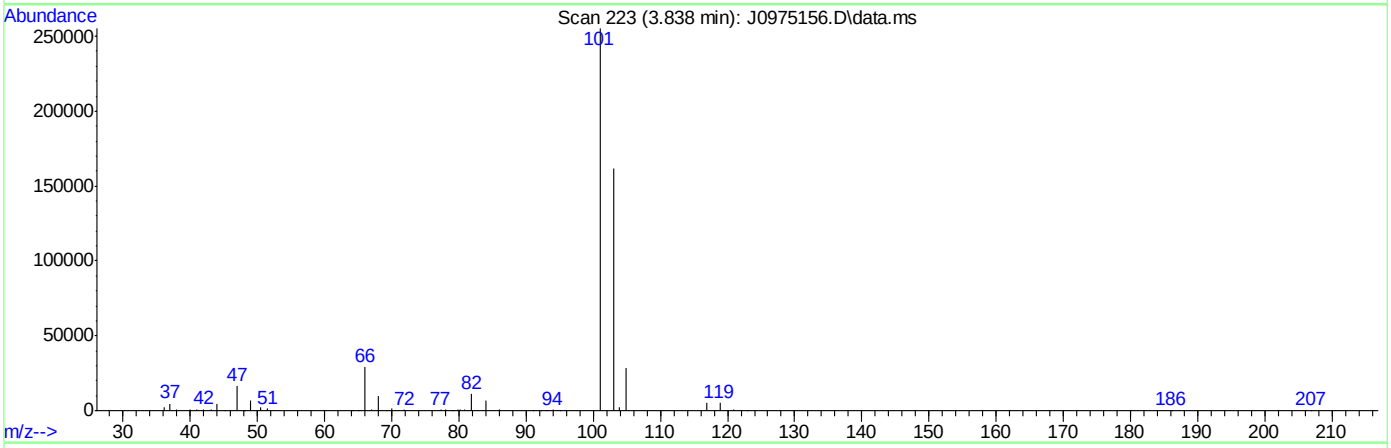
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 62.31ug/L

response 918142

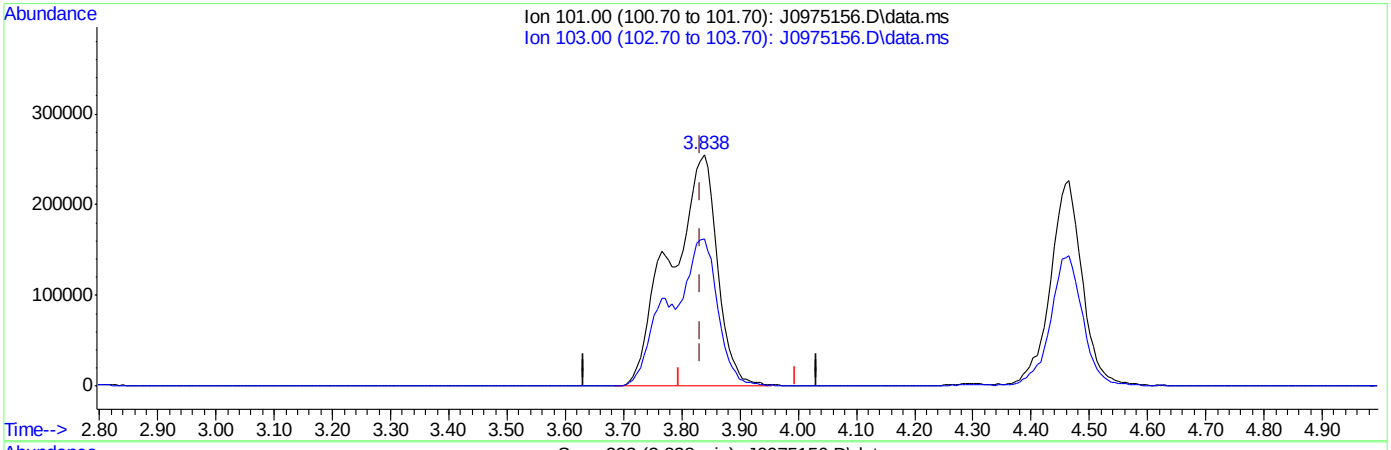
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.35
0.00	0.00	0.00
0.00	0.00	0.00

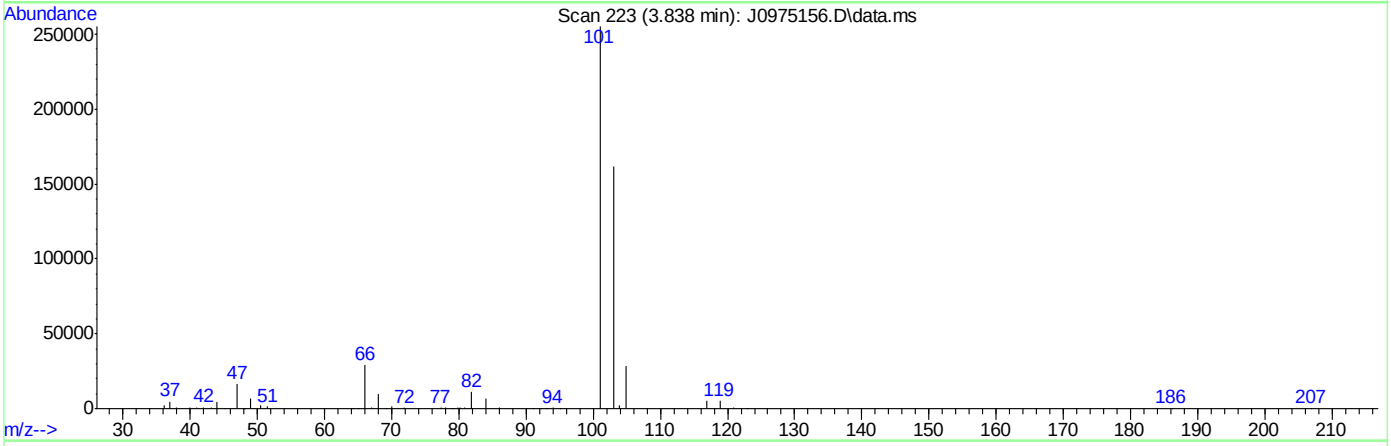
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 96.55ug/L m

response 1422690

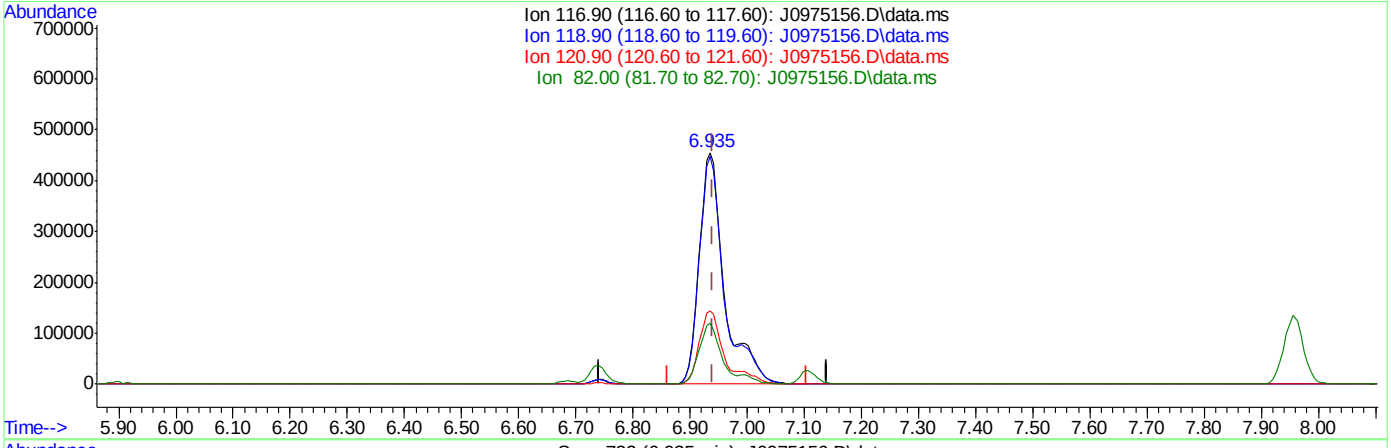
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.42
0.00	0.00	0.00
0.00	0.00	0.00

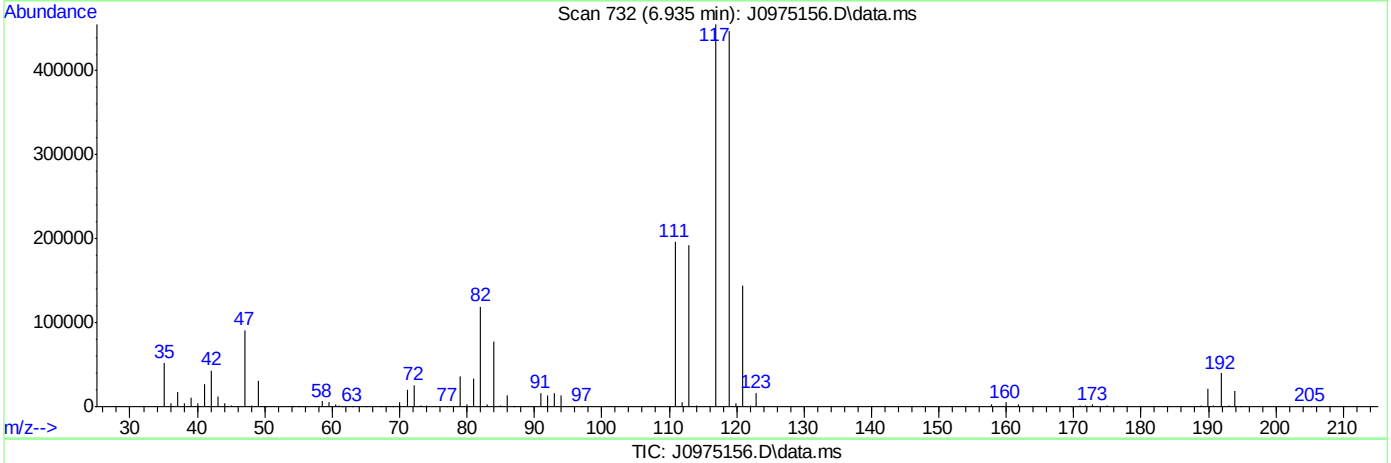
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 118.07ug/L

response 1403127

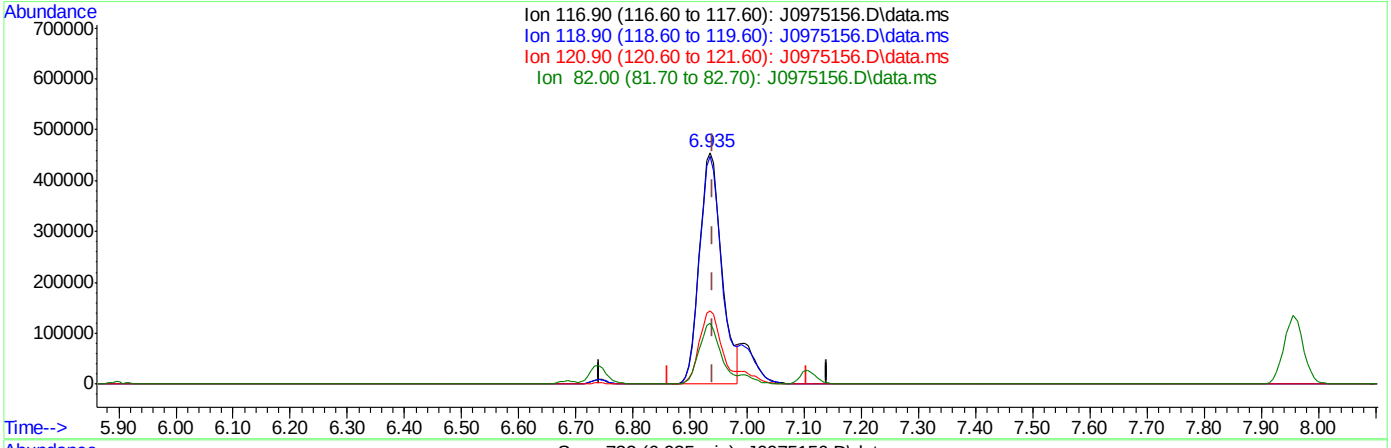
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.22
120.90	31.80	31.58
82.00	25.40	26.25

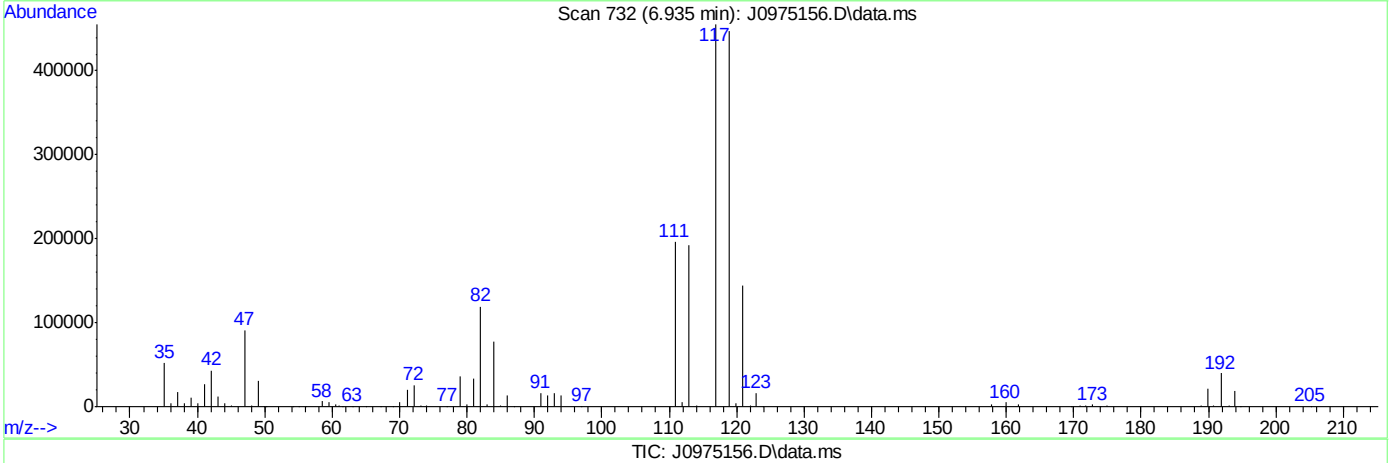
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 104.39ug/L m

response 1240589

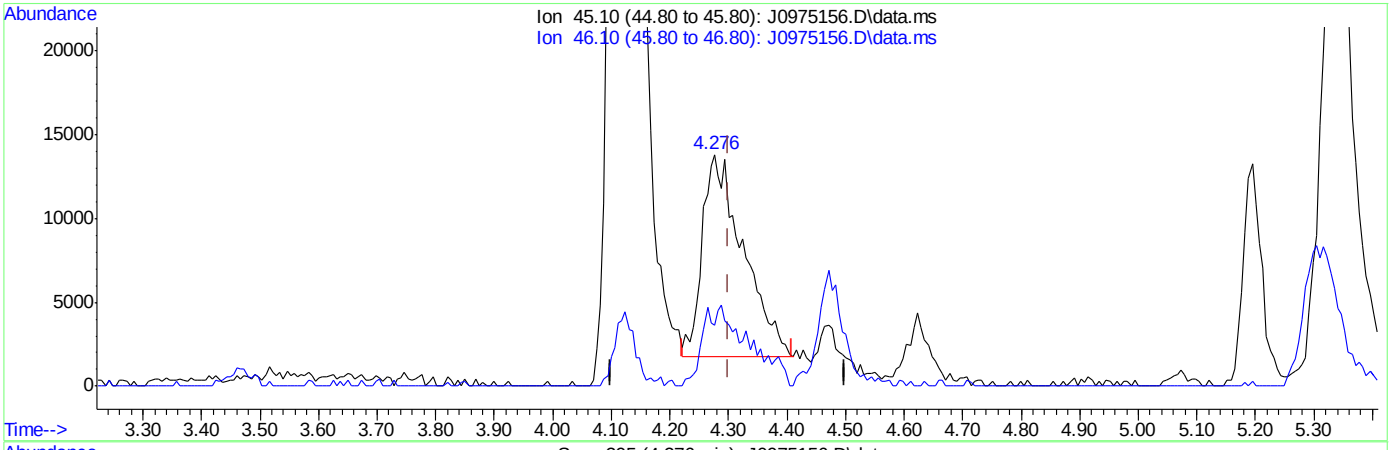
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.22
120.90	31.80	31.58
82.00	25.40	26.25

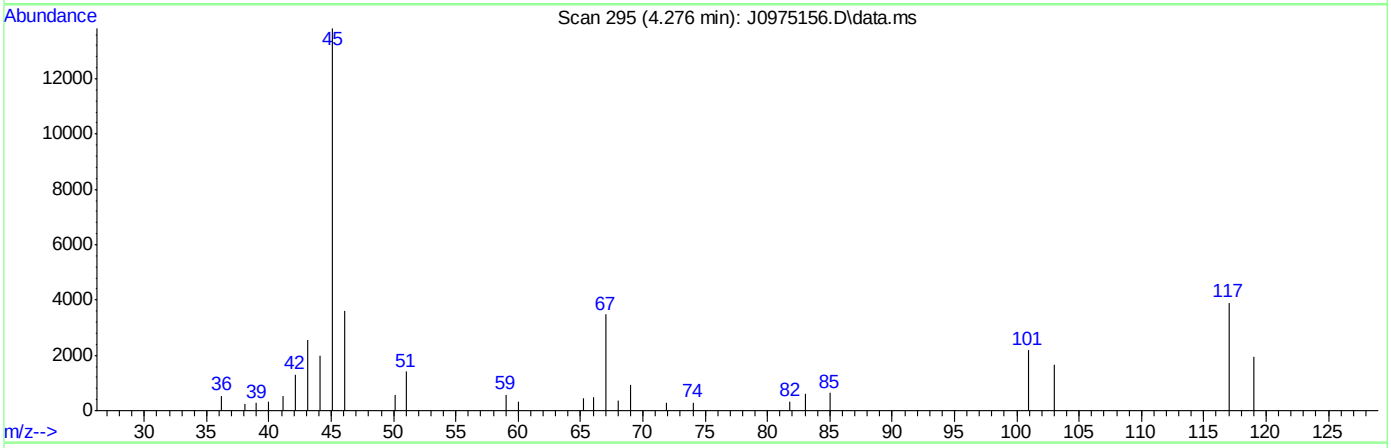
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(107) Ethanol

4.276min (-0.024) 1320.44ug/L

response 58410

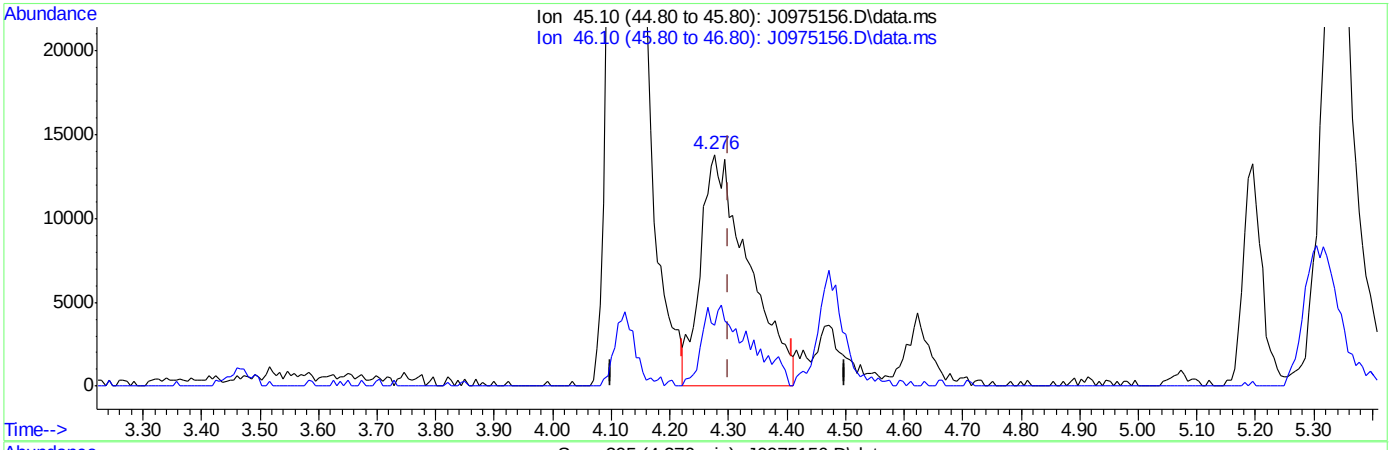
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.86
0.00	0.00	0.00
0.00	0.00	0.00

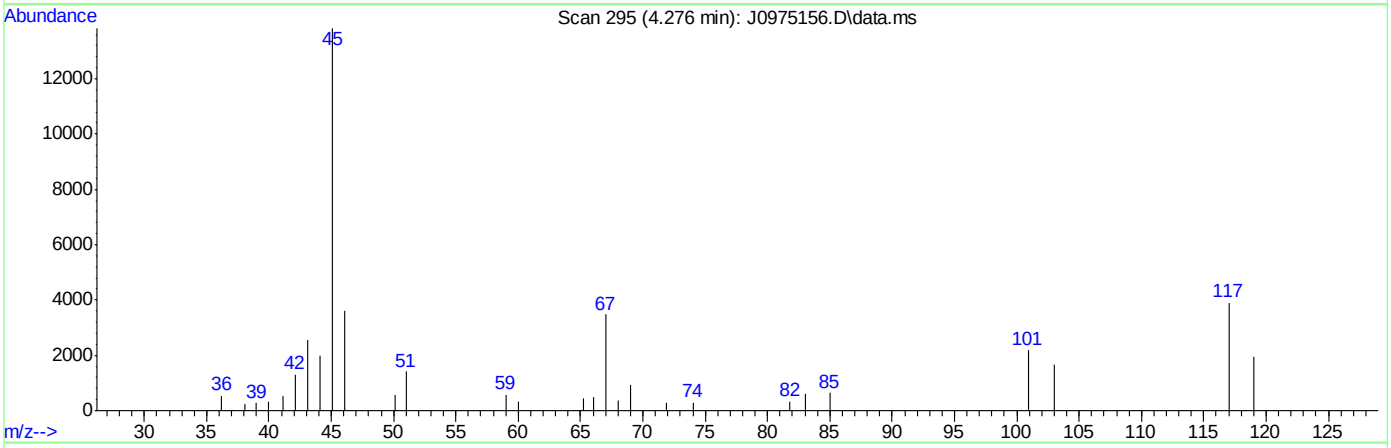
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(107) Ethanol

4.276min (-0.024) 1767.82ug/L m

response 78200

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	26.08
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 16 08:39:04 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1639270	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1249756	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	712475	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	88026	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	0.000	113	0d	0.00	ug/L	
Spiked Amount 50.000	Range 83 - 118		Recovery = 0.00%#			
46) 1,2-Dichloroethane-d4	7.482	65	499348	49.64	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.28%			
57) Toluene-d8	9.301	98	1616219	49.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.30%			
79) 4-Bromofluorobenzene	12.057	95	655632	50.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.76%			
Target Compounds						Qvalue
10) 1,2-Dichlorotrifluoroe...	4.355	67	376698	39.53	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.27

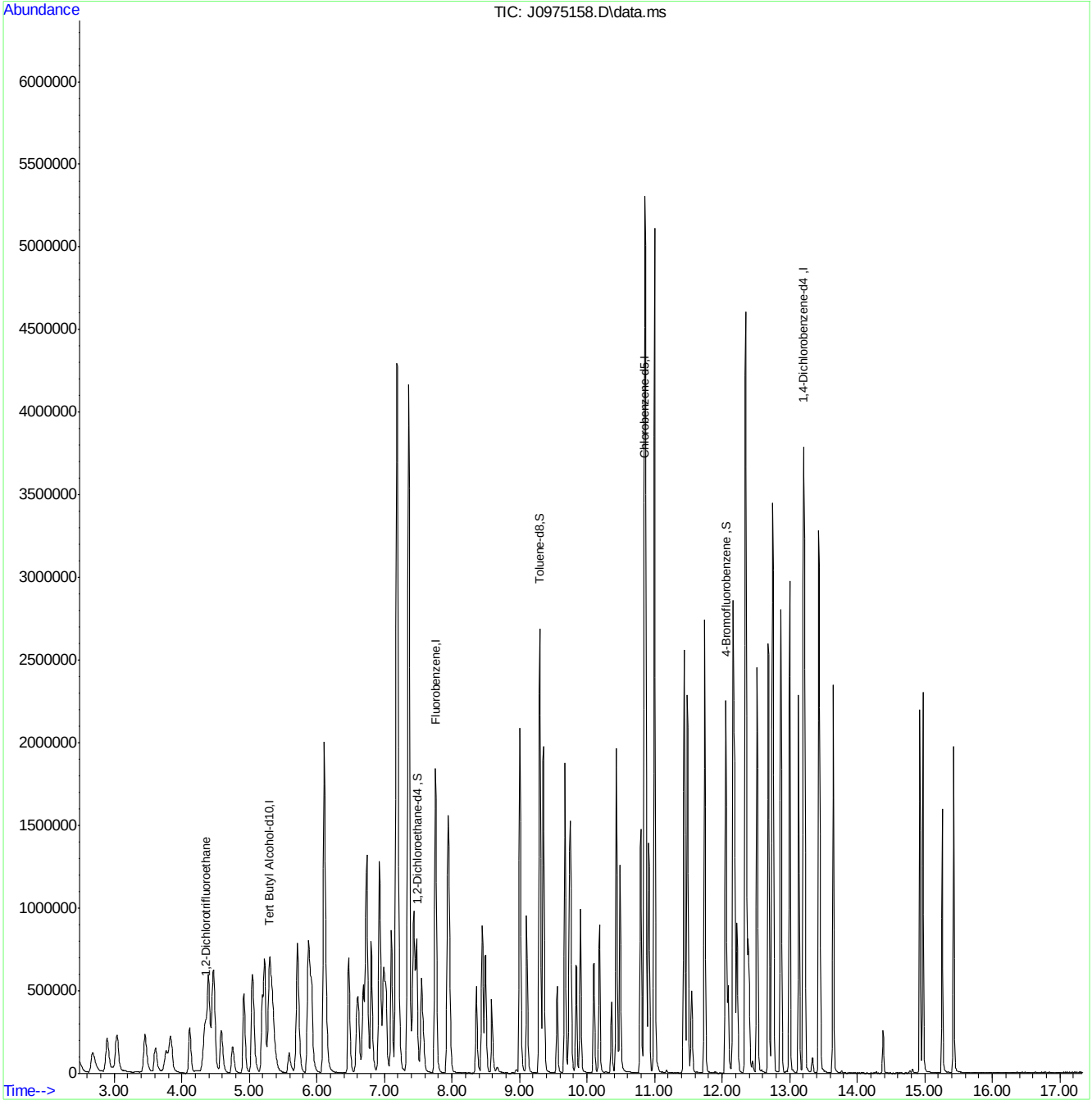
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 16 08:39:04 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

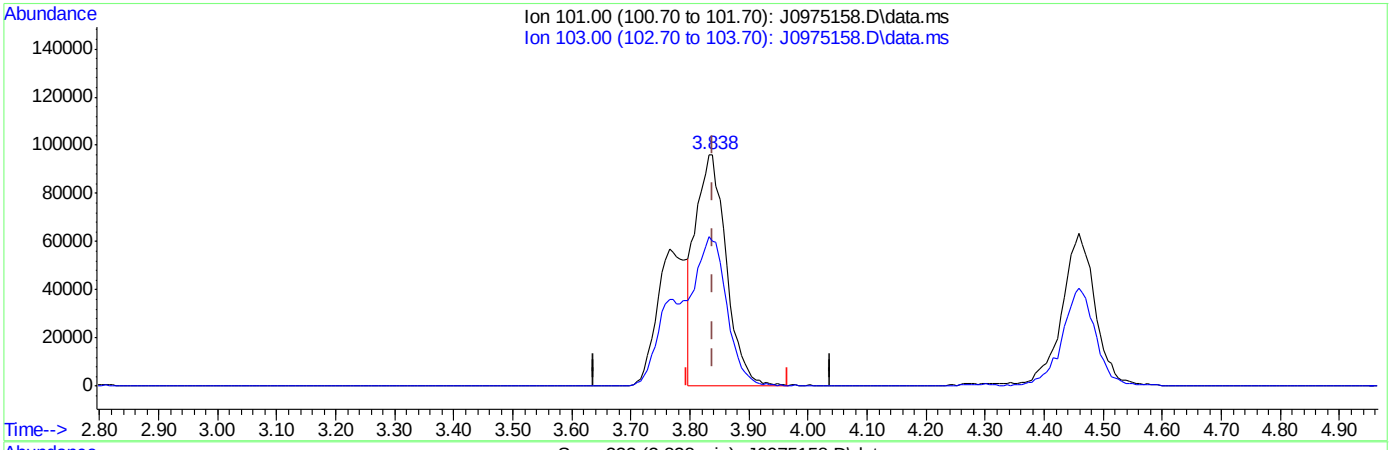


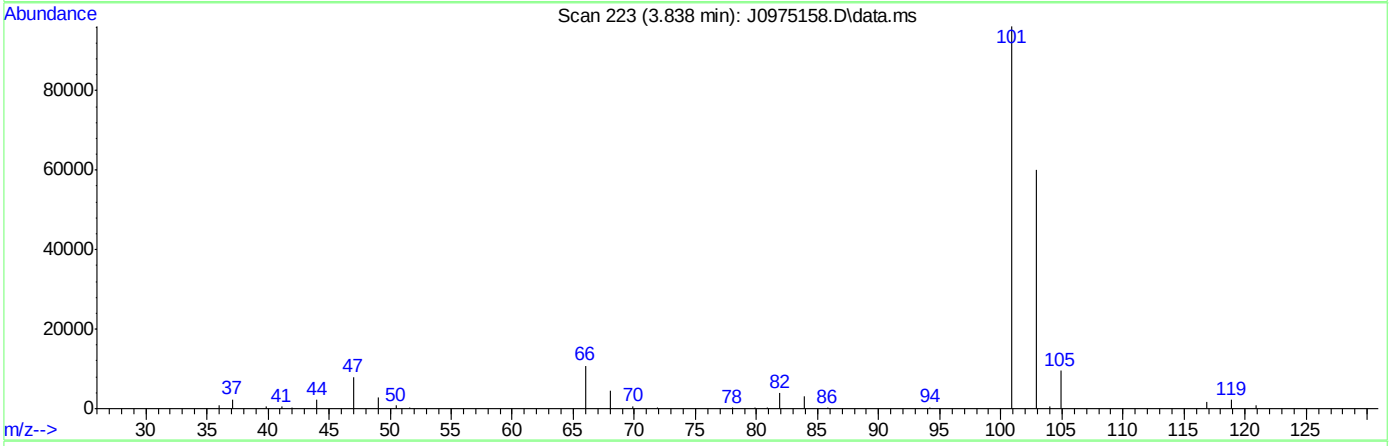
MSJ031516.M Wed Mar 16 09:49:38 2016 Page: 2

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 16 08:35:34 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975158.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 25.41ug/L

response 348698

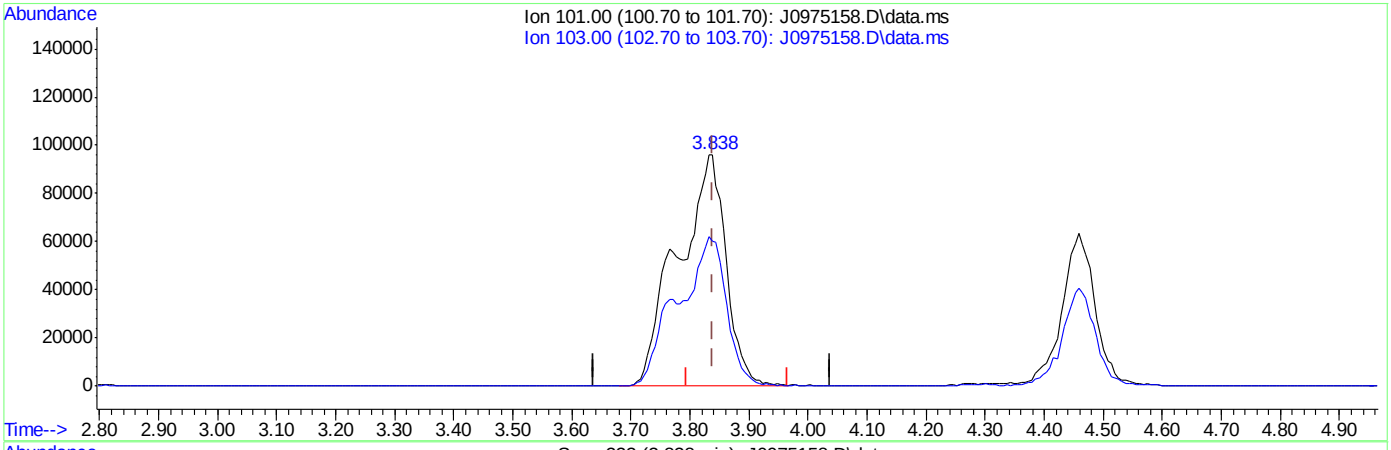
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.38
0.00	0.00	0.00
0.00	0.00	0.00

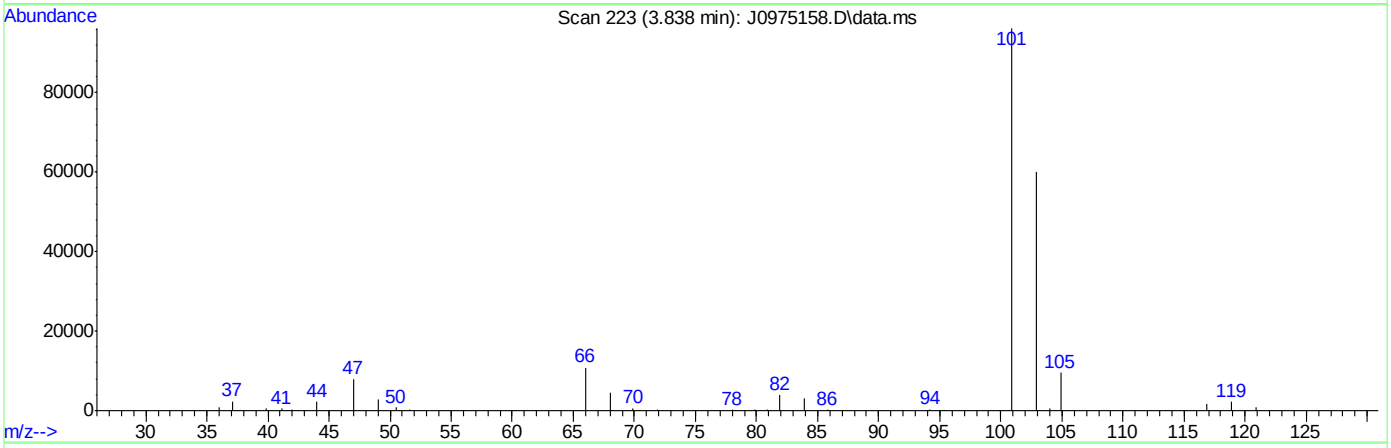
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 16 08:35:34 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975158.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 39.59ug/L m

response 543281

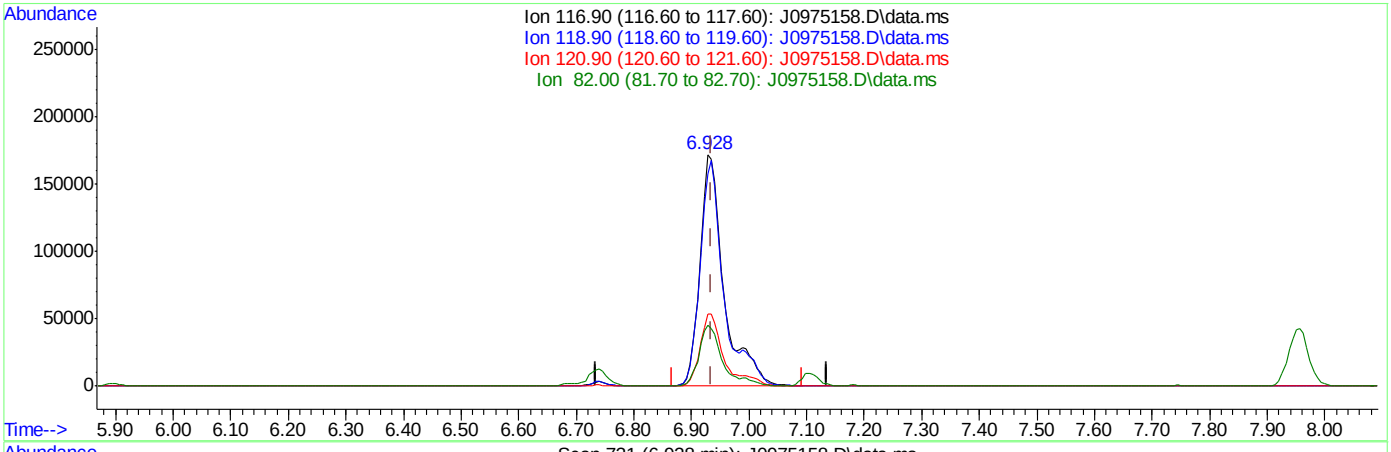
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.54
0.00	0.00	0.00
0.00	0.00	0.00

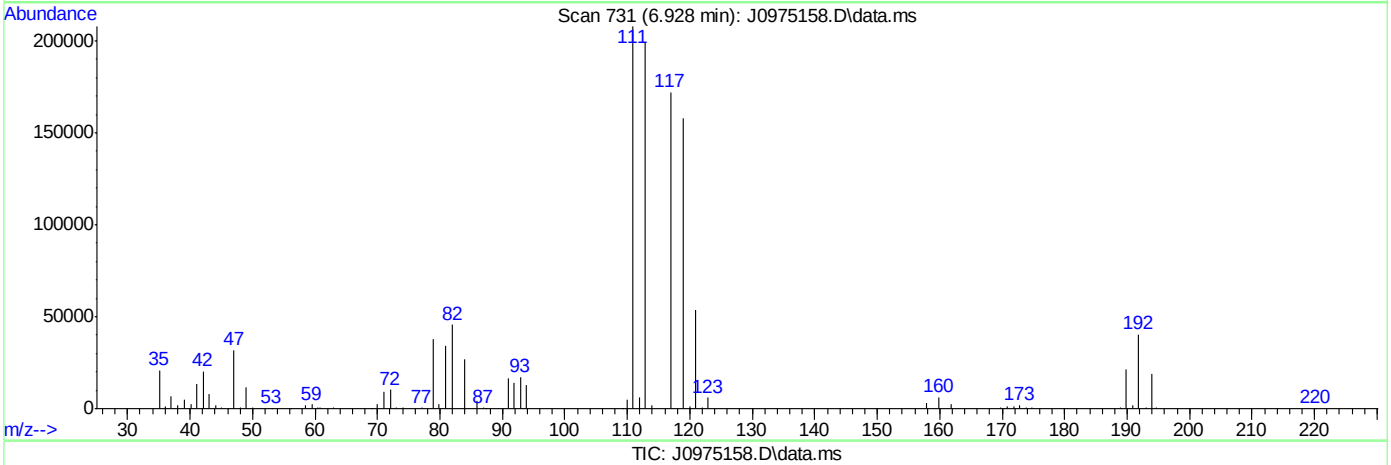
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 16 08:35:34 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.928min (-0.007) 45.07ug/L

response 506180

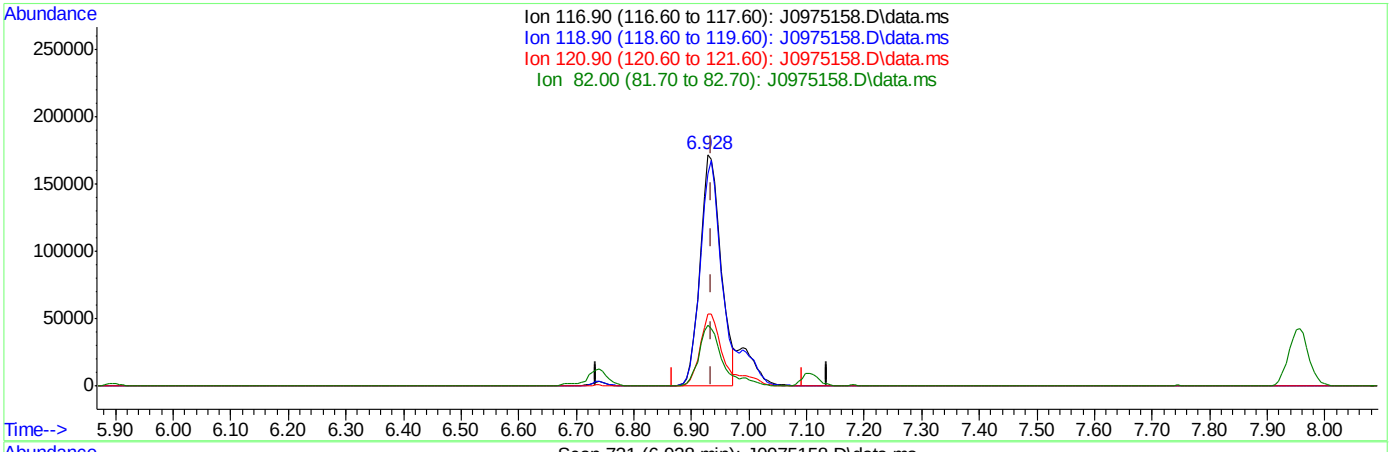
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	91.71
120.90	31.80	31.05
82.00	25.40	26.52

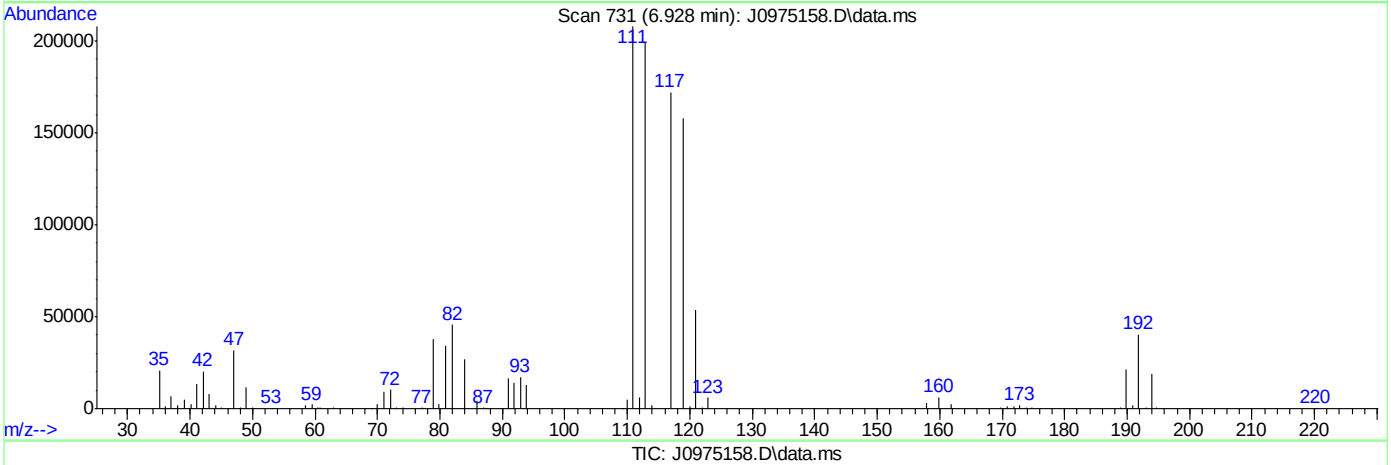
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 16 08:35:34 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975158.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 38.77ug/L m

response 435379

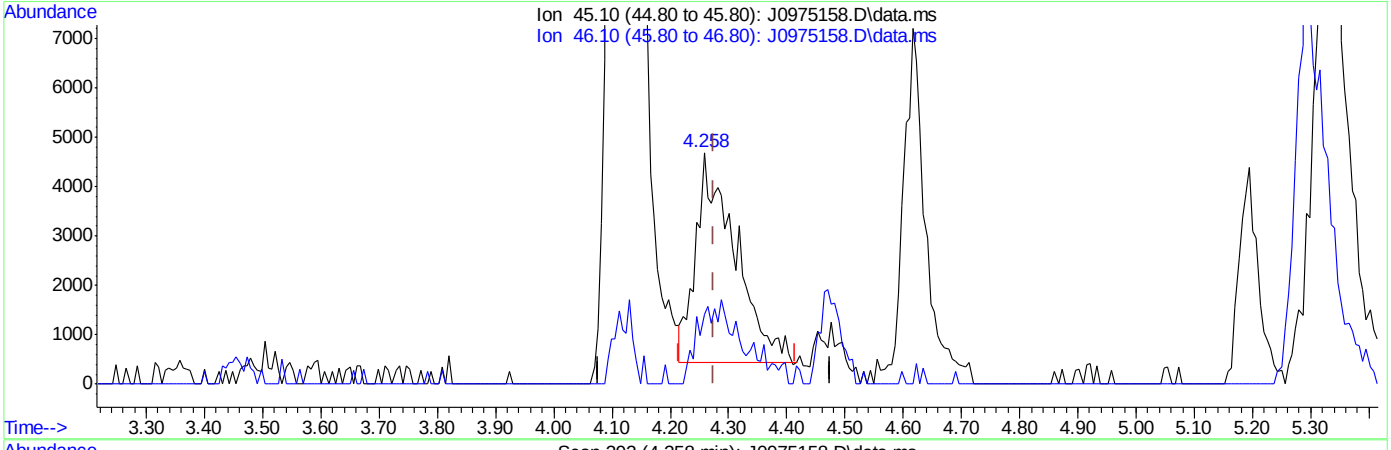
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	91.71
120.90	31.80	31.05
82.00	25.40	26.52

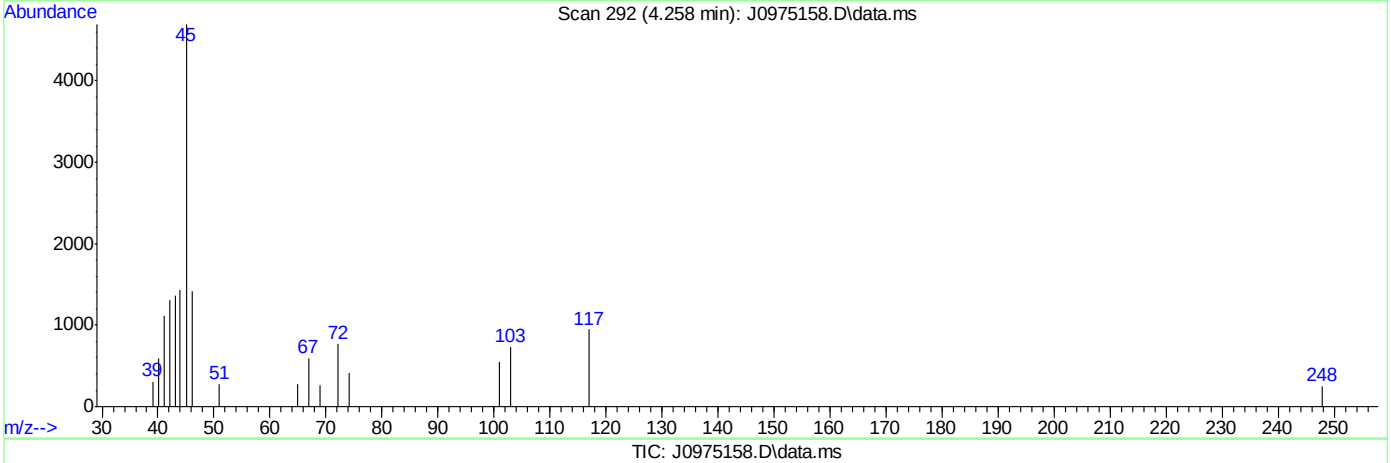
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 16 08:35:34 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975158.D\data.ms

(107) Ethanol

4.258min (-0.018) 482.59ug/L

response 19905

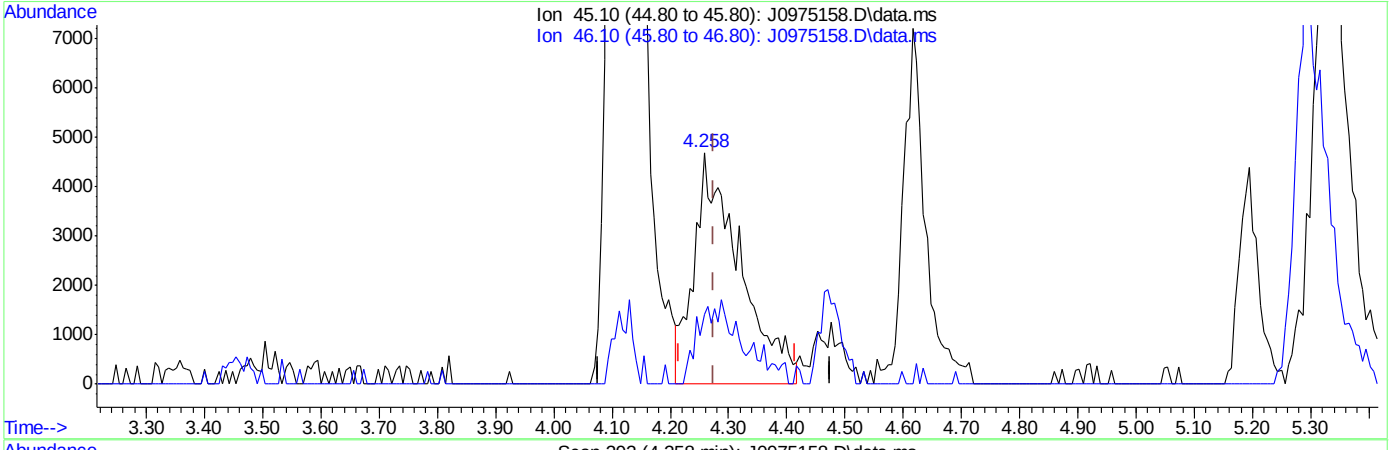
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	33.25
0.00	0.00	0.00
0.00	0.00	0.00

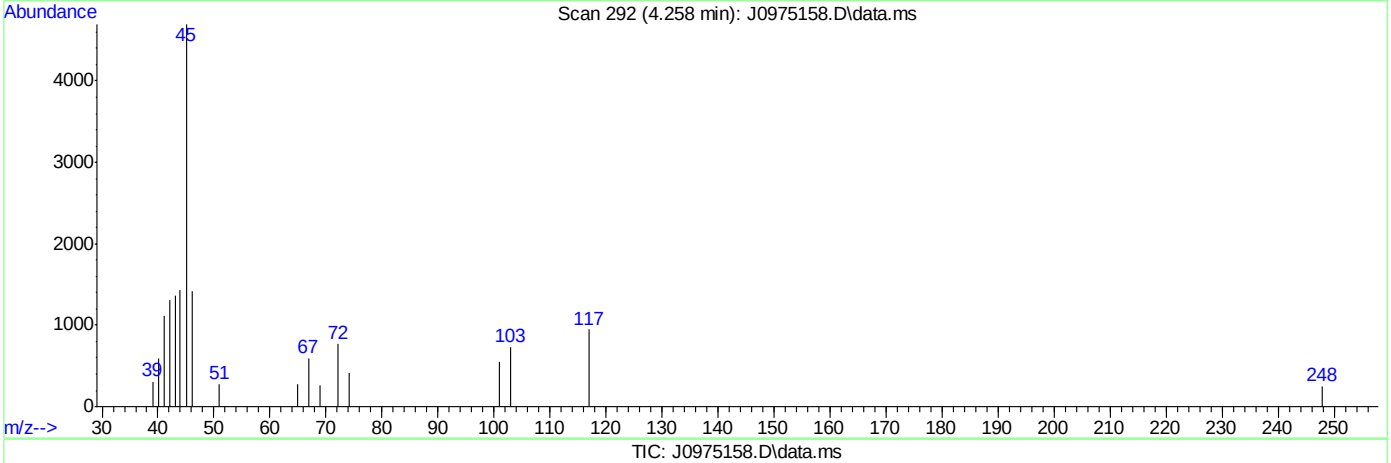
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 16 08:35:34 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975158.D\data.ms

(107) Ethanol

4.258min (-0.018) 633.21ug/L m

response 25660

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	30.12
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 09:50:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1689319	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1274772	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	725111	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	82619	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	432540	50.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.92%			
46) 1,2-Dichloroethane-d4	7.482	65	519342	50.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.20%			
57) Toluene-d8	9.301	98	1670418	49.81	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.62%			
79) 4-Bromofluorobenzene	12.057	95	665209	50.72	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	354259	34.07	ug/L	96
3) Chloromethane	2.901	50	387748	34.84	ug/L	95
4) Vinyl Chloride	3.041	62	425438	37.32	ug/L	99
6) Bromomethane	3.461	94	278051	34.53	ug/L	95
7) Chloroethane	3.613	64	217628	38.56	ug/L	97
8) Trichlorofluoromethane	3.844	101	553847m	39.16	ug/L	
9) Ethyl Ether	4.124	59	256246	39.23	ug/L	99
11) 1,1-Dichloroethene	4.398	61	477652	39.05	ug/L	97
12) Freon 113	4.465	101	289648	34.25	ug/L	94
13) Carbon Disulfide	4.477	76	975070	38.29	ug/L	98
14) Iodomethane	4.586	142	507869	37.58	ug/L	97
15) Allyl chloride	4.921	41	379599	33.57	ug/L	96
16) Methylene Chloride	5.049	49	412563	37.43	ug/L	92
17) Acetone	5.067	58	98076	193.60	ug/L #	83
18) Methyl acetate	5.195	74	198401	201.11	ug/L	98
19) trans-1,2-Dichloroethene	5.231	61	456974	40.68	ug/L	97
20) Hexane	5.298	56	279737	38.81	ug/L	96
21) Methyl Tert Butyl Ether	5.341	73	881327	39.36	ug/L	79
22) Acetonitrile	5.590	40	102201	320.47	ug/L	97
23) Di-isopropyl ether	5.718	45	997320	38.91	ug/L	98
24) Chloroprene	5.870	53	429680	35.58	ug/L	98
25) 1,1-Dichloroethane	5.894	63	571999	38.14	ug/L	100
26) Acrylonitrile	5.931	53	411362	183.51	ug/L	96
27) ETBE	6.119	59	1009684	39.34	ug/L	98
28) Vinyl acetate	6.113	43	2362562	181.98	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	351476	36.50	ug/L	96
30) 2,2-Dichloropropane	6.606	77	469483	40.11	ug/L	98
31) Bromochloromethane	6.685	128	168857	38.79	ug/L	98
32) Cyclohexane	6.734	56	525225	37.25	ug/L	95
33) Chloroform	6.740	83	618400	37.14	ug/L	97
34) Ethyl acetate	6.807	43	910882	174.50	ug/L	98
35) Tetrahydrofuran	6.916	42	56856	37.55	ug/L	86
37) Carbon Tetrachloride	6.934	117	454277m	39.25	ug/L	

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 09:50:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 1,1,1-Trichloroethane	6.995	97	518860	36.44	ug/L	97
39) 2-Butanone	7.026	43	425502	194.64	ug/L	99
40) 1,1-Dichloropropene	7.105	75	445038	38.71	ug/L	99
41) tert-Butyl Formate	7.190	59	2170239	415.05	ug/L	91
42) Propionitrile	7.336	54	271119	350.21	ug/L	92
43) Methacrylonitrile	7.360	41	1247708	346.35	ug/L	95
44) Benzene	7.360	78	1298928	37.11	ug/L	99
45) TAME	7.433	73	884954	38.21	ug/L	97
47) 1,2-Dichloroethane	7.549	62	446703	36.47	ug/L	96
48) Trichloroethene	7.938	95	336292	37.08	ug/L	98
49) Methylcyclohexane	7.957	83	595618	39.09	ug/L	98
50) Dibromomethane	8.364	93	201900	39.89	ug/L	93
51) 1,2-Dichloropropane	8.449	63	325127	36.98	ug/L	95
52) Bromodichloromethane	8.498	83	448772	39.82	ug/L	98
53) Methyl methacrylate	8.595	41	201813	43.42	ug/L	98
54) 2-Chloroethyl vinyl ether	9.009	63	863009	193.28	ug/L	98
55) cis-1,3-Dichloropropene	9.112	75	525273	38.68	ug/L	99
58) Toluene	9.356	91	1352904	36.64	ug/L	99
59) 2-Nitropropane	9.556	41	286557	195.66	ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	1016587	192.72	ug/L	99
61) trans-1,3-Dichloropropene	9.739	75	484292	41.88	ug/L	98
62) Tetrachloroethene	9.757	166	351639	35.63	ug/L	97
63) Ethyl methacrylate	9.836	69	298048	35.34	ug/L	95
64) 1,1,2-Trichloroethane	9.903	83	240723	39.97	ug/L	98
65) Dibromochloromethane	10.104	129	315391	41.20	ug/L	96
66) 1,3-Dichloropropane	10.183	76	466774	37.93	ug/L	99
67) 1,2-Dibromoethane	10.366	107	267849	39.24	ug/L	100
68) 2-hexanone	10.487	43	667151	191.27	ug/L	99
69) 1-Chlorohexane	10.798	91	438744	40.52	ug/L	98
70) Ethylbenzene	10.864	91	1605826	38.15	ug/L	99
71) Chlorobenzene	10.864	112	922655	37.57	ug/L	95
72) 1,1,1,2-Tetrachloroethane	10.913	131	324751	40.66	ug/L	99
73) m,p-Xylene	10.998	91	2439122	74.78	ug/L	98
74) o-Xylene	11.436	91	1286993	39.57	ug/L	99
75) Styrene	11.485	104	949865	36.54	ug/L	98
76) Bromoform	11.546	173	195280	40.08	ug/L	97
77) Isopropylbenzene	11.740	105	1525541	40.59	ug/L	100
80) cis-1,4-Dichloro-2-butene	12.087	53	84202	35.73	ug/L	96
81) n-Propylbenzene	12.160	91	1860742	40.44	ug/L	99
82) Bromobenzene	12.185	156	410484	37.89	ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	338472	38.72	ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	1363036	39.15	ug/L	99
85) 2-Chlorotoluene	12.355	91	1311798	38.84	ug/L	97
86) trans-1,4-Dichloro-2-B...	12.398	53	90941	41.00	ug/L #	84
87) 1,2,3-Trichloropropane	12.385	110	90006	40.39	ug/L	95
88) Cyclohexanone	12.446	55	22052	157.38	ug/L	88
89) 4-Chlorotoluene	12.519	91	1209033	39.99	ug/L	98
90) a-Methyl Styrene	12.750	118	10042	1.01	ug/L #	1
91) tert-Butylbenzene	12.683	91	783832	38.53	ug/L	96
92) 1,2,4-Trimethylbenzene	12.756	105	1370993	39.43	ug/L	99

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 09:50:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Pentachloroethane	12.738	167	233557	35.49	ug/L	98
94) sec-Butylbenzene	12.872	105	1676645	39.88	ug/L	99
95) 4-Isopropyltoluene	13.000	119	1386532	39.32	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	749434	39.01	ug/L	96
97) 1,4-Dichlorobenzene	13.219	146	766175	37.57	ug/L	95
98) n-Butylbenzene	13.432	92	833176	40.98	ug/L	99
99) Benzyl Chloride	13.450	126	123442	41.28	ug/L #	79
100) 1,2-Dichlorobenzene	13.645	146	709720	38.60	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	50379	37.51	ug/L	96
102) Hexachlorobutadiene	14.928	225	304579	37.08	ug/L	99
103) 1,2,4-Trichlorobenzene	14.971	180	530342	39.51	ug/L	97
104) Naphthalene	15.257	128	930860	41.50	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	466779	39.24	ug/L	98
107) Ethanol	4.276	45	25799m	682.26	ug/L	
108) acrolein	4.757	56	213250	220.76	ug/L	94
109) Tert Butyl Alcohol	5.371	59	162595	406.01	ug/L #	57
110) tert Amyl alcohol	7.573	59	127486	453.85	ug/L	96
111) Isobutyl alcohol	7.458	42	113595	742.75	ug/L	96
112) 1,4-Dioxane	8.674	88	27105	826.21	ug/L	93
113) 3,3-Dimethyl-1-butanol	10.433	57	743617	2160.96	ug/L	98

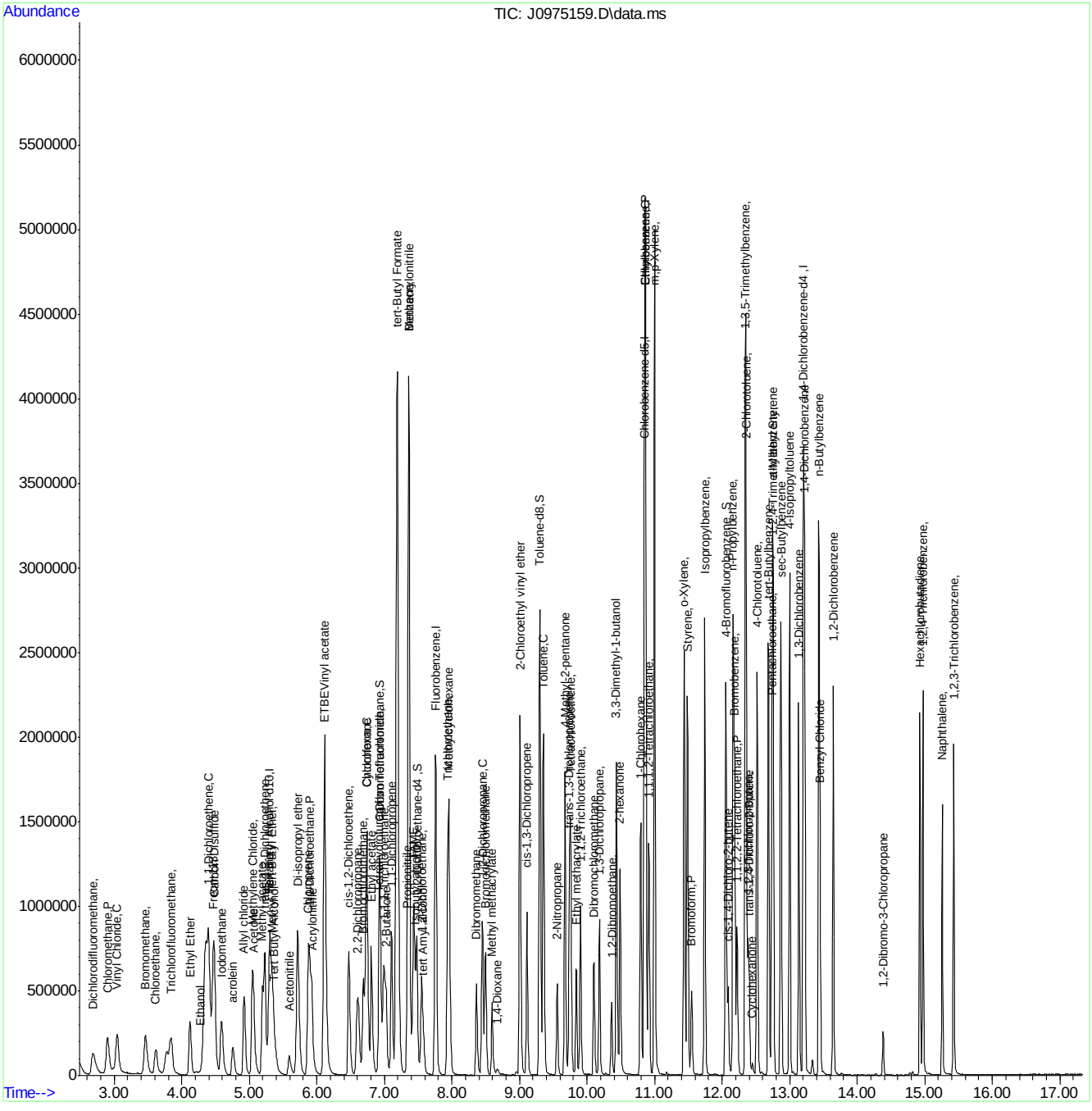
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 09:50:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

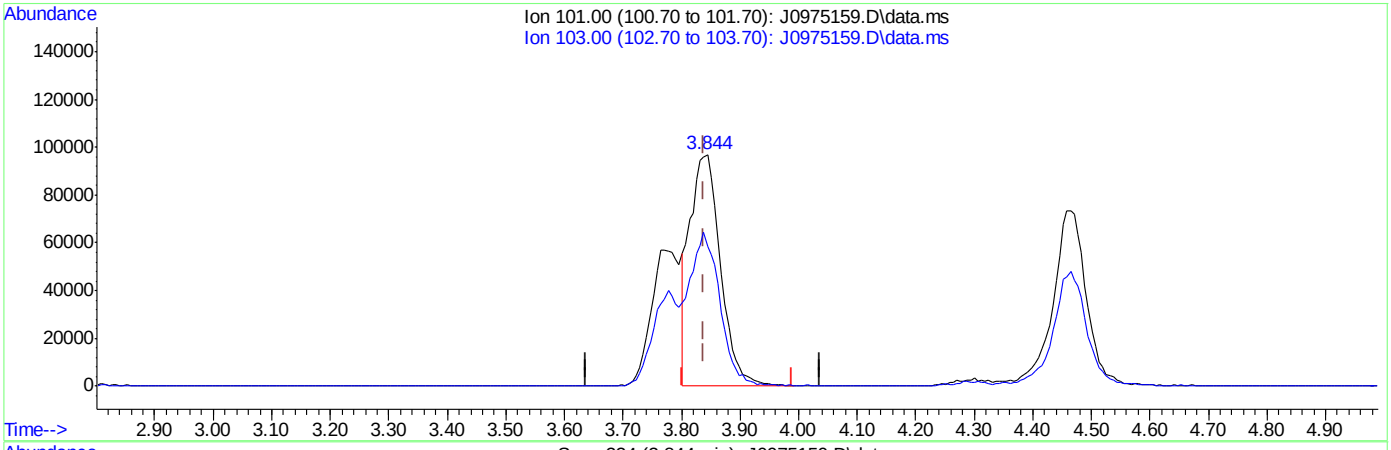
Sample Number:	VJ5237-ICV5237	**Method:**	SW846 8260B
Lab FileID:	J0975159.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 17:51	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

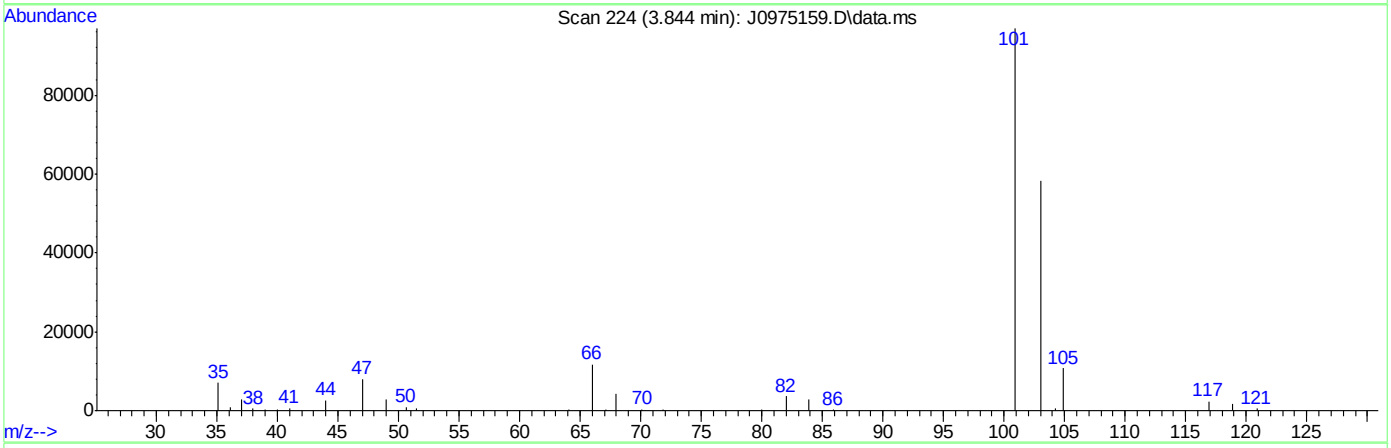
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 24.89ug/L

response 352017

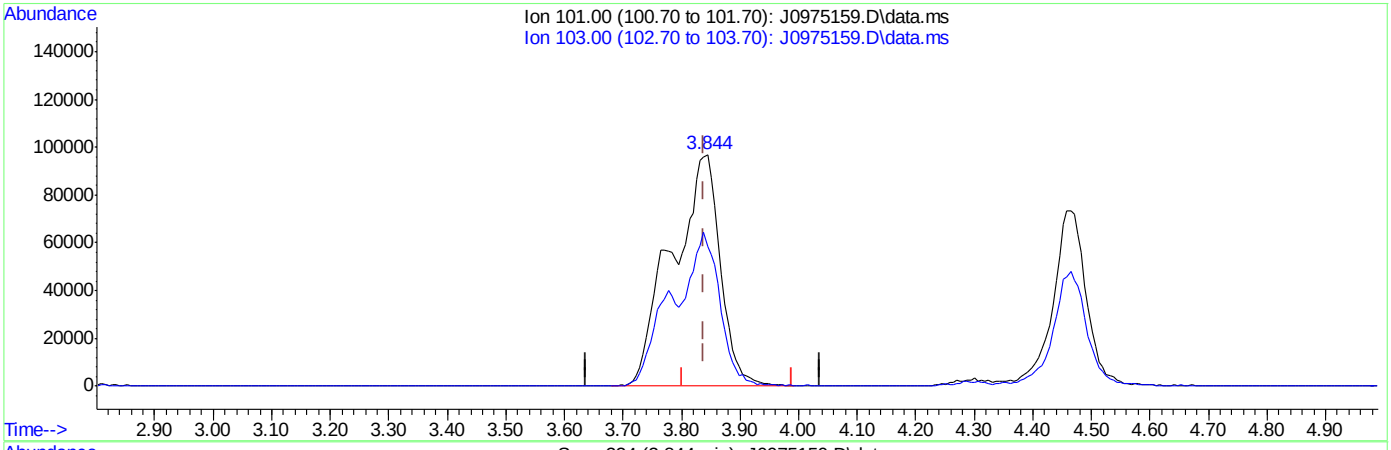
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.08
0.00	0.00	0.00
0.00	0.00	0.00

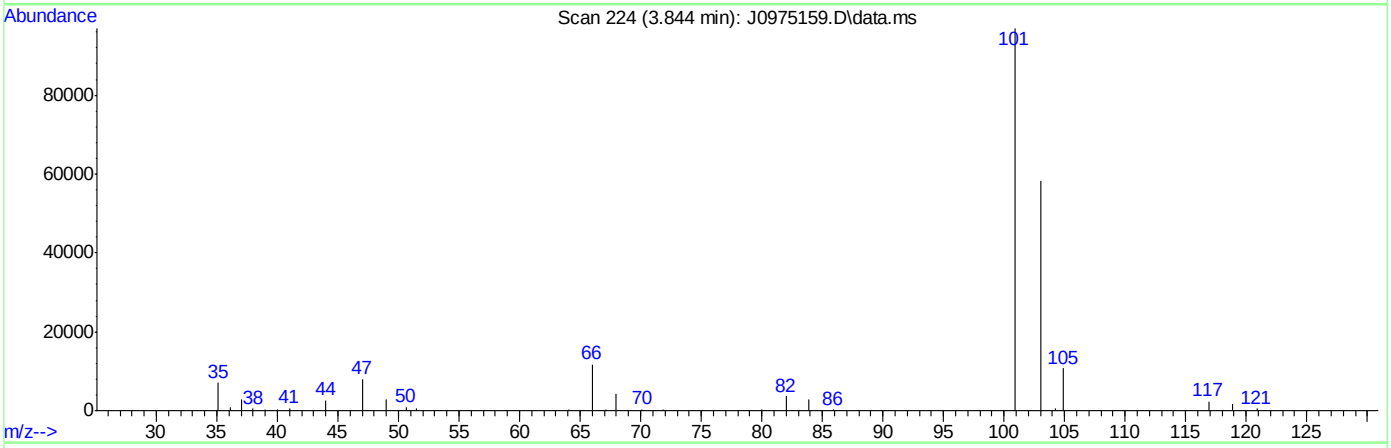
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 39.16ug/L m

response 553847

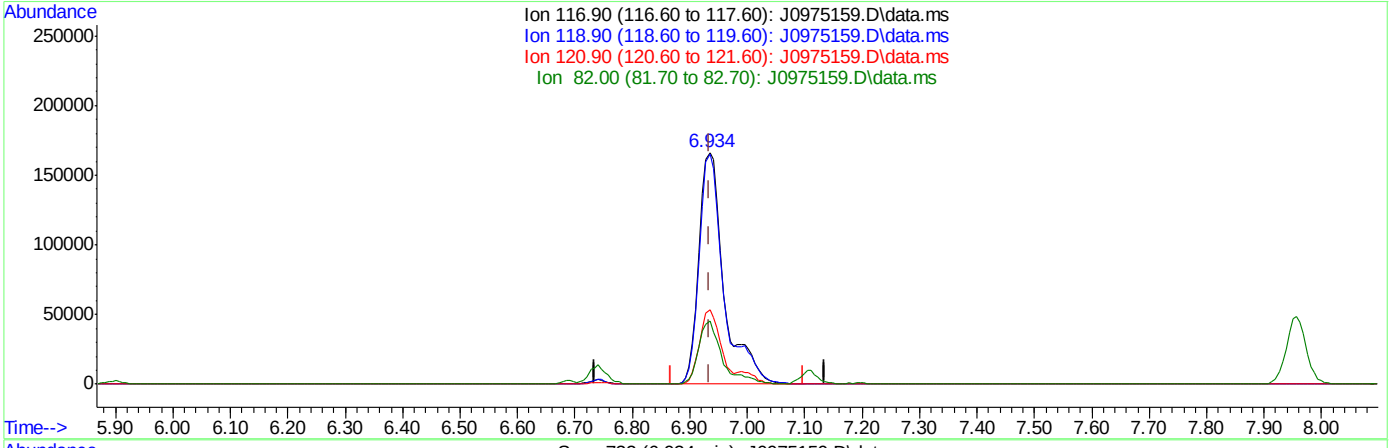
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.08
0.00	0.00	0.00
0.00	0.00	0.00

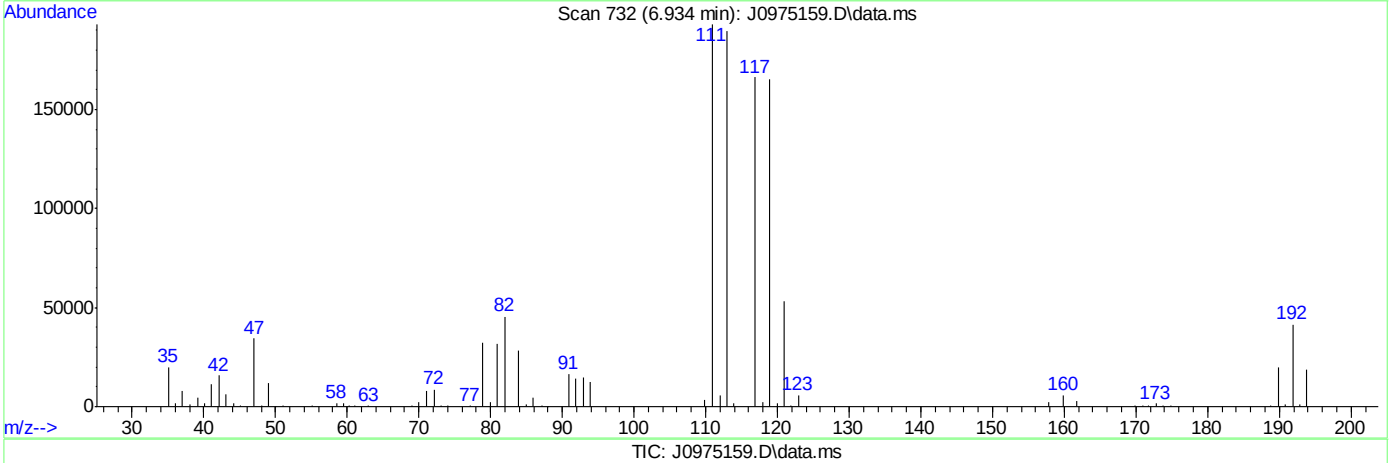
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 43.99ug/L

response 509174

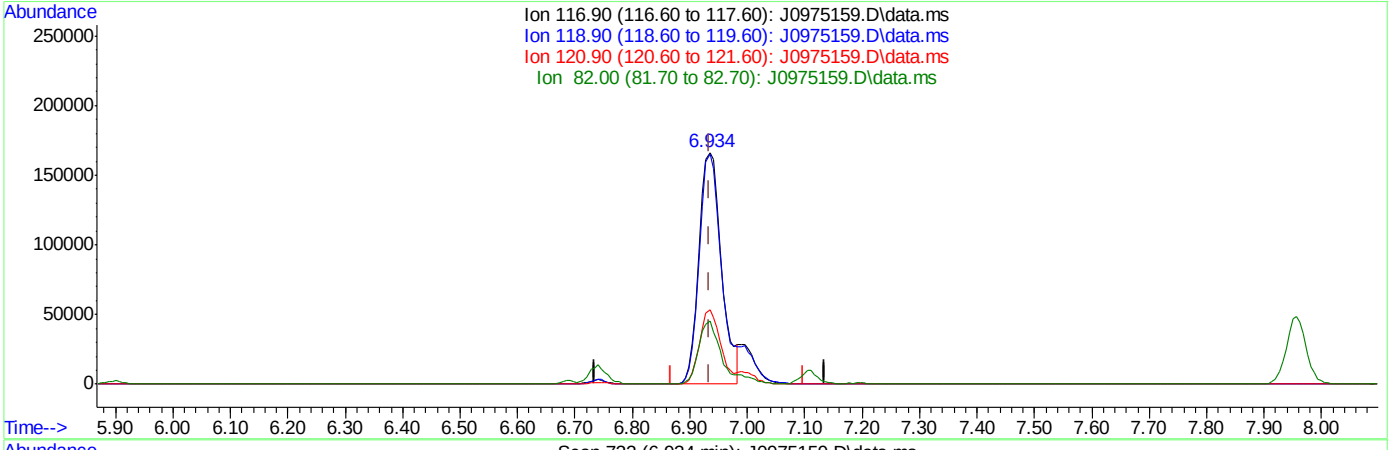
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	99.23
120.90	31.80	31.88
82.00	25.40	27.27

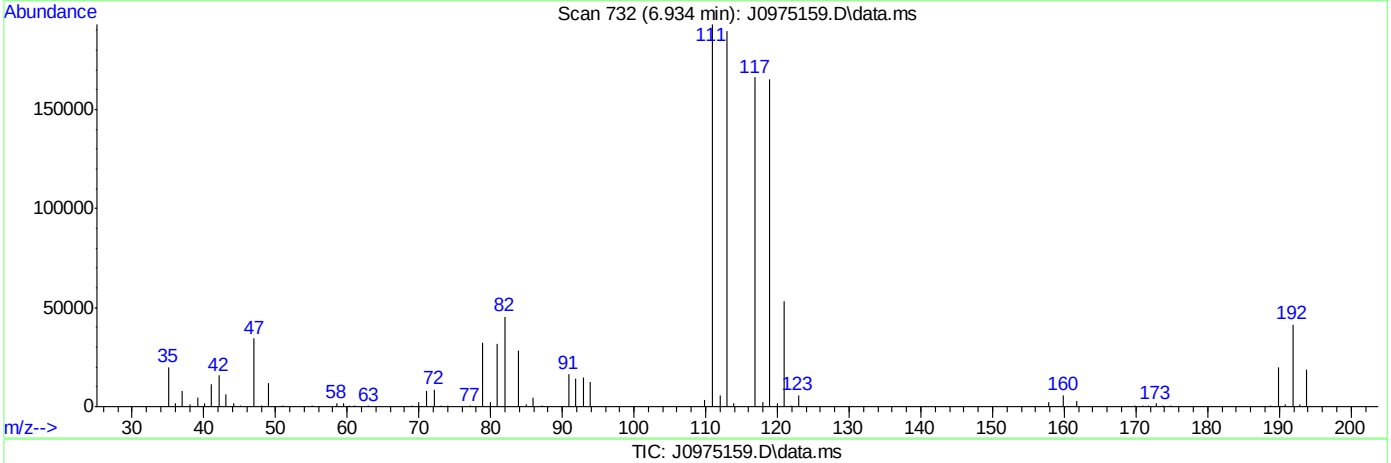
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 39.25ug/L m

response 454277

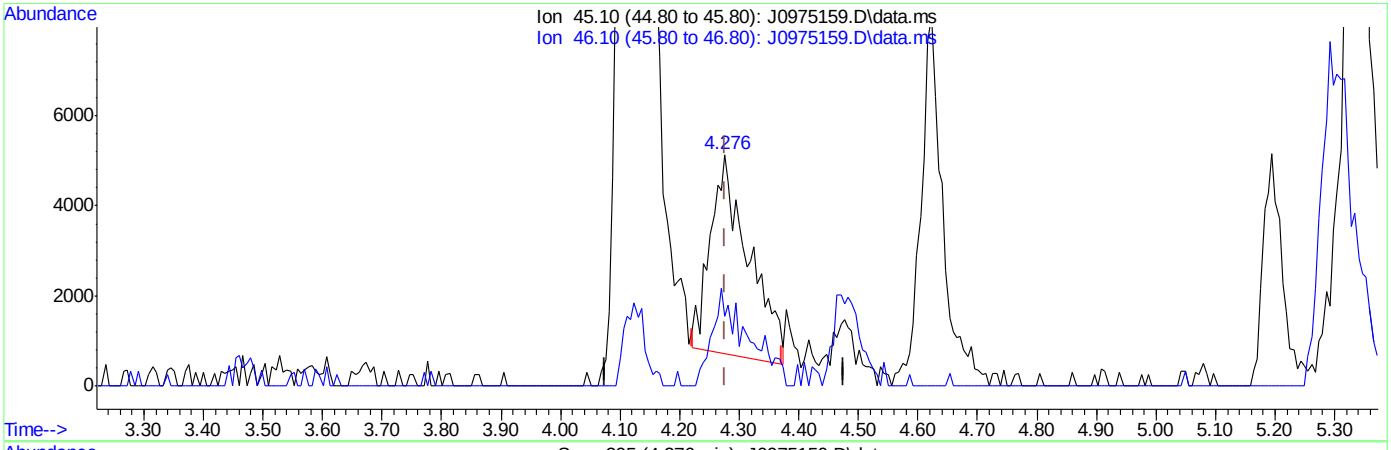
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	99.23
120.90	31.80	31.88
82.00	25.40	27.27

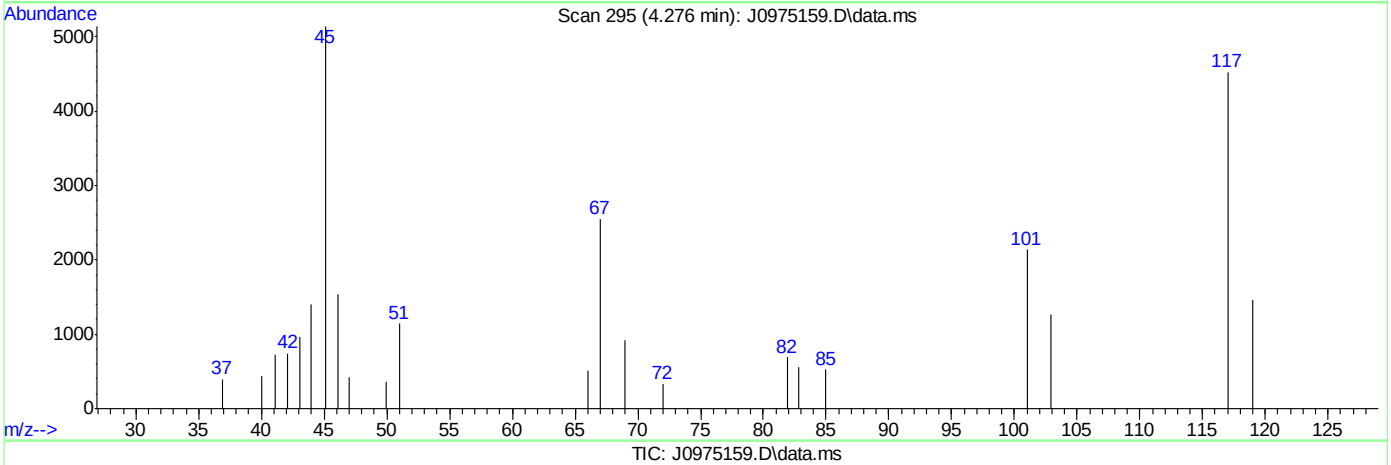
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(107) Ethanol

4.276min (-0.000) 508.74ug/L

response 19635

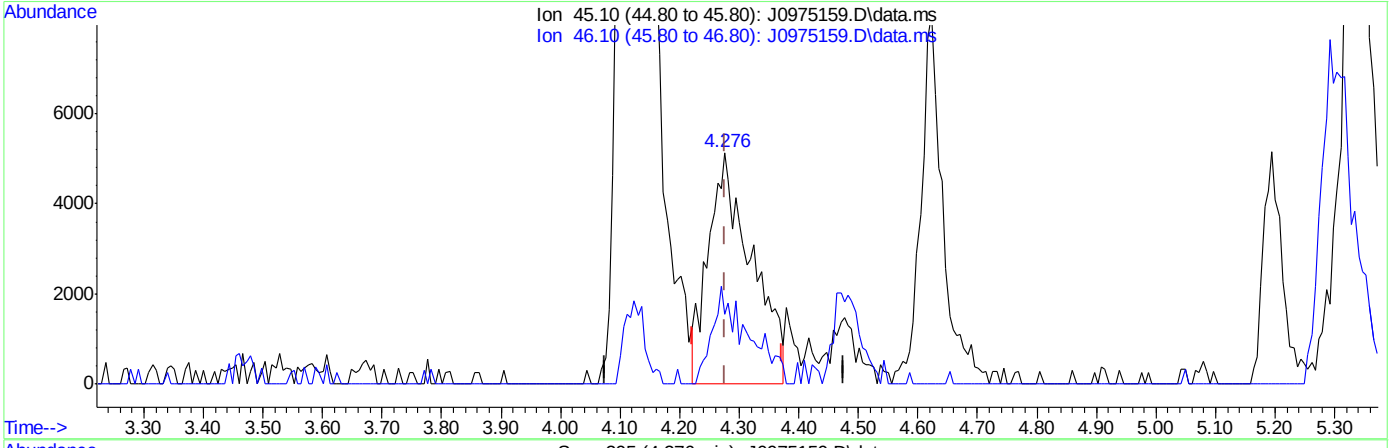
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	36.04
0.00	0.00	0.00
0.00	0.00	0.00

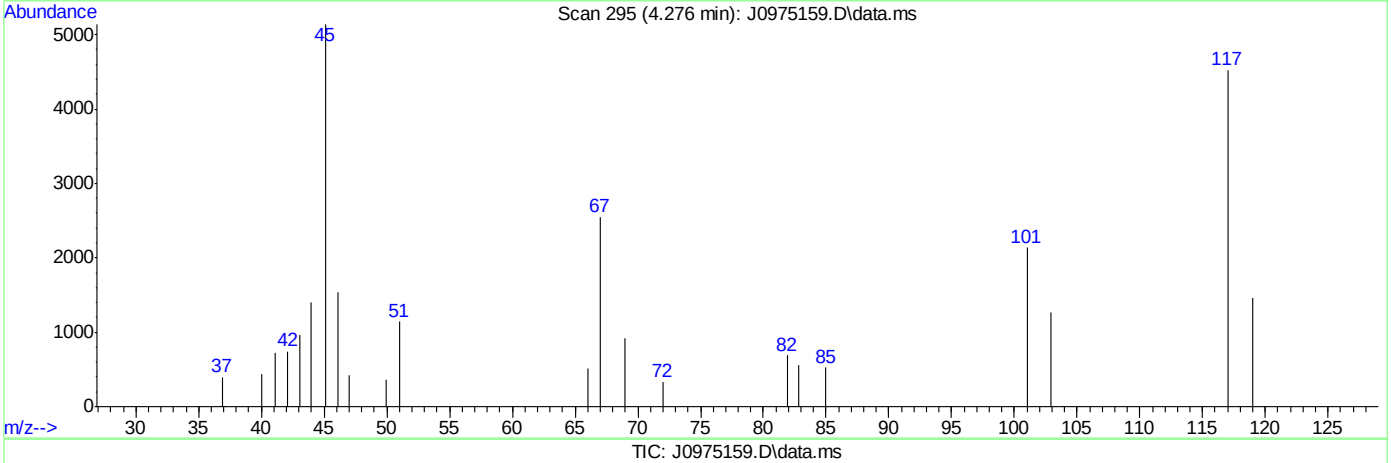
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(107) Ethanol

4.276min (-0.000) 682.26ug/L m

response 25799

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	30.02
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/11/16 15:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976383.D
Acq On : 10 May 2016 9:01 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 14:29:58 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1300978	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1048196	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	615897	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	87764	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	331611	50.23	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.46%			
46) 1,2-Dichloroethane-d4	7.476	65	394569	49.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.84%			
57) Toluene-d8	9.301	98	1298785	47.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 94.20%			
79) 4-Bromofluorobenzene	12.051	95	530727	47.64	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	263826	32.94	ug/L	97
3) Chloromethane	2.901	50	318780	37.20	ug/L	98
4) Vinyl Chloride	3.047	62	336609	38.34	ug/L	100
5) 1,3-Butadiene	3.041	54	224950	34.47	ug/L	97
6) Bromomethane	3.461	94	200148	32.03	ug/L	96
7) Chloroethane	3.619	64	144435	32.89	ug/L	95
8) Trichlorofluoromethane	3.838	101	429912m	39.47	ug/L	
9) Ethyl Ether	4.118	59	205938	40.94	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.355	67	315097	41.66	ug/L	98
11) 1,1-Dichloroethene	4.391	61	404374	42.93	ug/L	97
12) Freon 113	4.464	101	275303	42.27	ug/L	98
13) Carbon Disulfide	4.471	76	820517	41.83	ug/L	95
14) Iodomethane	4.586	142	440144	42.29	ug/L	99
15) Allyl chloride	4.921	41	316944	36.40	ug/L	96
16) Methylene Chloride	5.042	49	361199	42.64	ug/L	97
17) Acetone	5.067	58	78714	201.76	ug/L	97
18) Methyl acetate	5.188	74	146218	192.46	ug/L	94
19) trans-1,2-Dichloroethene	5.225	61	363148	41.98	ug/L	99
20) Hexane	5.298	56	225868	40.69	ug/L	98
21) Methyl Tert Butyl Ether	5.334	73	723975	41.99	ug/L	79
22) Acetonitrile	5.584	40	99385	405.82	ug/L	91
23) Di-isopropyl ether	5.712	45	818423	41.46	ug/L	97
24) Chloroprene	5.870	53	314952	33.86	ug/L	97
25) 1,1-Dichloroethane	5.894	63	482768	41.80	ug/L	97
26) Acrylonitrile	5.925	53	351216	203.44	ug/L	98
27) ETBE	6.113	59	877869	44.41	ug/L	98
28) Vinyl acetate	6.107	43	2212095	221.25	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	306328	41.31	ug/L	98
30) 2,2-Dichloropropane	6.606	77	411014	45.60	ug/L	97
31) Bromochloromethane	6.685	128	140445	41.89	ug/L	98
32) Cyclohexane	6.734	56	447535	41.21	ug/L	95
33) Chloroform	6.734	83	530290	41.35	ug/L	98
34) Ethyl acetate	6.807	43	755460	187.93	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976383.D
Acq On : 10 May 2016 9:01 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 14:29:58 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	43006	36.86	ug/L	95
37) Carbon Tetrachloride	6.934	117	417579m	46.85	ug/L	
38) 1,1,1-Trichloroethane	6.989	97	470095	42.87	ug/L	98
39) 2-Butanone	7.020	43	325803	193.52	ug/L	100
40) 1,1-Dichloropropene	7.105	75	370729	41.87	ug/L	99
41) tert-Butyl Formate	7.184	59	1828306	454.13	ug/L	99
42) Propionitrile	7.330	54	221580	371.66	ug/L	87
43) Methacrylonitrile	7.360	41	994218	358.36	ug/L	97
44) Benzene	7.354	78	1179082	43.75	ug/L	99
45) TAME	7.433	73	793264	44.47	ug/L	98
47) 1,2-Dichloroethane	7.543	62	381560	40.45	ug/L	97
48) Trichloroethene	7.932	95	296717	42.49	ug/L	96
49) Methylcyclohexane	7.956	83	505037	43.04	ug/L	96
50) Dibromomethane	8.358	93	161252	41.37	ug/L	98
51) 1,2-Dichloropropane	8.443	63	275195	40.64	ug/L	96
52) Bromodichloromethane	8.492	83	376613	43.39	ug/L	100
53) Methyl methacrylate	8.589	41	133532	37.31	ug/L	96
54) 2-Chloroethyl vinyl ether	9.003	63	695851	202.36	ug/L	99
55) cis-1,3-Dichloropropene	9.106	75	444643	42.43	ug/L	97
58) Toluene	9.350	91	1216051	40.06	ug/L	100
59) 2-Nitropropane	9.556	41	230259	191.16	ug/L	97
60) 4-Methyl-2-pentanone	9.672	43	860795	198.46	ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	398054	41.86	ug/L	97
62) Tetrachloroethene	9.757	166	306765	37.80	ug/L	98
63) Ethyl methacrylate	9.836	69	256666	37.01	ug/L	99
64) 1,1,2-Trichloroethane	9.903	83	198097	40.00	ug/L	96
65) Dibromochloromethane	10.098	129	271075	43.06	ug/L	97
66) 1,3-Dichloropropane	10.183	76	394427	38.98	ug/L	98
67) 1,2-Dibromoethane	10.359	107	220029	39.20	ug/L	99
68) 2-hexanone	10.487	43	595455	207.62	ug/L	99
69) 1-Chlorohexane	10.791	91	379805	42.66	ug/L	97
70) Ethylbenzene	10.858	91	1491746	43.10	ug/L	99
71) Chlorobenzene	10.864	112	870192	43.10	ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	288484	43.93	ug/L	98
73) m,p-Xylene	10.998	91	2236836	84.93	ug/L	97
74) o-Xylene	11.436	91	1159196	43.34	ug/L	99
75) Styrene	11.485	104	918302	43.08	ug/L	98
76) Bromoform	11.546	173	179027	44.51	ug/L	97
77) Isopropylbenzene	11.740	105	1388428	44.92	ug/L	97
80) cis-1,4-Dichloro-2-butene	12.087	53	72552	36.25	ug/L	97
81) n-Propylbenzene	12.160	91	1709740	43.75	ug/L	99
82) Bromobenzene	12.185	156	388933	42.27	ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.221	83	305663	41.16	ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	1311856	44.36	ug/L	99
85) 2-Chlorotoluene	12.349	91	1235120	43.06	ug/L	98
86) trans-1,4-Dichloro-2-B...	12.397	53	72325	38.43	ug/L #	86
87) 1,2,3-Trichloropropane	12.379	110	79684	42.10	ug/L	94
88) Cyclohexanone	12.446	55	38893	326.79	ug/L	95
89) 4-Chlorotoluene	12.519	91	1126992	43.89	ug/L	98
90) a-Methyl Styrene	12.604	118	612127	72.48	ug/L	99

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976383.D
Acq On : 10 May 2016 9:01 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 14:29:58 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.683	91	729559	42.23	ug/L		98
92)	1,2,4-Trimethylbenzene	12.750	105	1304428	44.17	ug/L		99
93)	Pentachloroethane	12.738	167	223415	40.13	ug/L		97
94)	sec-Butylbenzene	12.866	105	1547991	43.35	ug/L		99
95)	4-Isopropyltoluene	13.000	119	1314791	43.89	ug/L		97
96)	1,3-Dichlorobenzene	13.134	146	688018	42.16	ug/L		96
97)	1,4-Dichlorobenzene	13.219	146	706996	40.82	ug/L		94
98)	n-Butylbenzene	13.432	92	764082	44.25	ug/L		98
99)	Benzyl Chloride	13.450	126	118770	46.33	ug/L	#	61
100)	1,2-Dichlorobenzene	13.645	146	631323	40.43	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.381	75	39702	34.88	ug/L		92
102)	Hexachlorobutadiene	14.928	225	274947	39.41	ug/L		96
103)	1,2,4-Trichlorobenzene	14.971	180	422453	37.05	ug/L		98
104)	Naphthalene	15.257	128	618413	32.40	ug/L		100
105)	1,2,3-Trichlorobenzene	15.427	180	358017	35.43	ug/L		97
107)	Ethanol	4.300	45	34422m	877.31	ug/L		
108)	acrolein	4.750	56	166676	162.43	ug/L		96
109)	Tert Butyl Alcohol	5.377	59	163149	383.52	ug/L		98
110)	tert Amyl alcohol	7.573	59	128041	429.11	ug/L		94
111)	Isobutyl alcohol	7.451	42	113370	694.52	ug/L	#	85
112)	1,4-Dioxane	8.668	88	34949	1002.86	ug/L		91
113)	3,3-Dimethyl-1-butanol	10.432	57	708794	1939.01	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.6.29

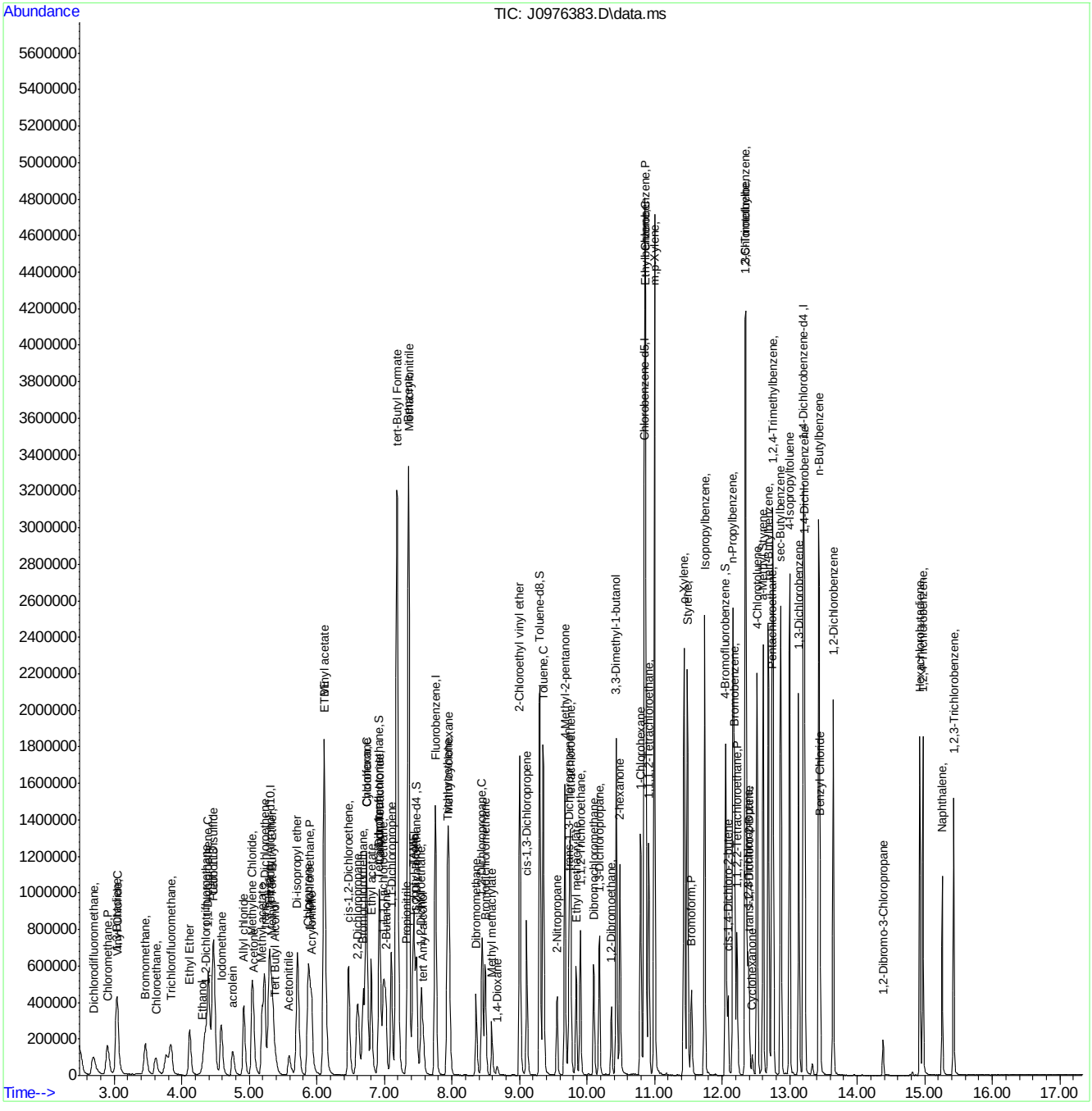
7

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976383.D
Acq On : 10 May 2016 9:01 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 14:29:58 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

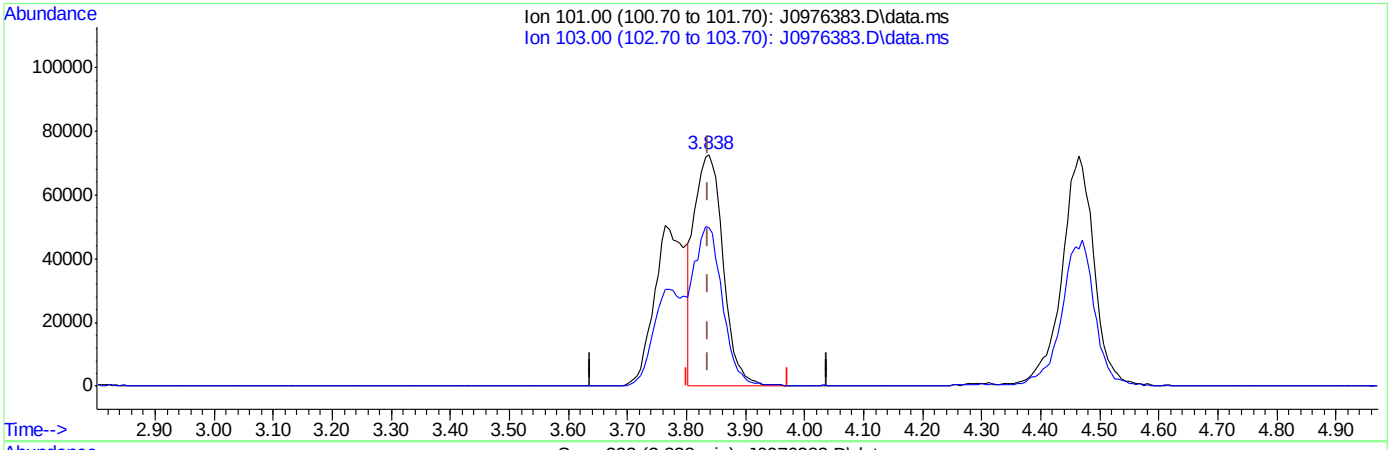
Sample Number:	VJ5291-CC5237	**Method:**	SW846 8260B
Lab FileID:	J0976383.D	**Analyst approved:**	05/11/16 14:45 Wilfredo Vazquez
Injection Time:	05/10/16 09:01	**Supervisor approved:**	05/11/16 15:22 Juan Garcia

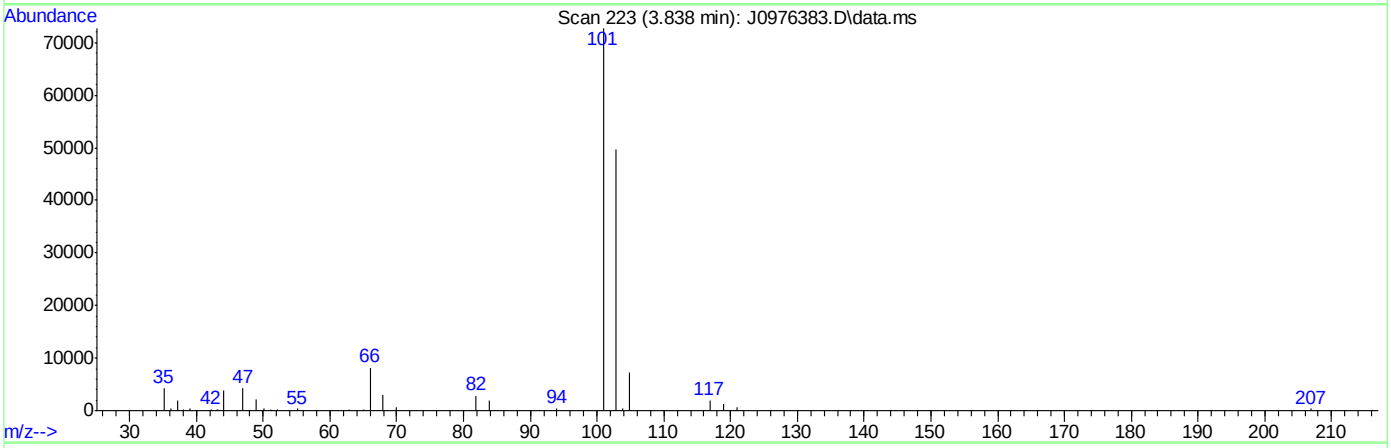
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.30	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976383.D
Acq On : 10 May 2016 9:01 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 09:20:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976383.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 22.77ug/L

response 247997

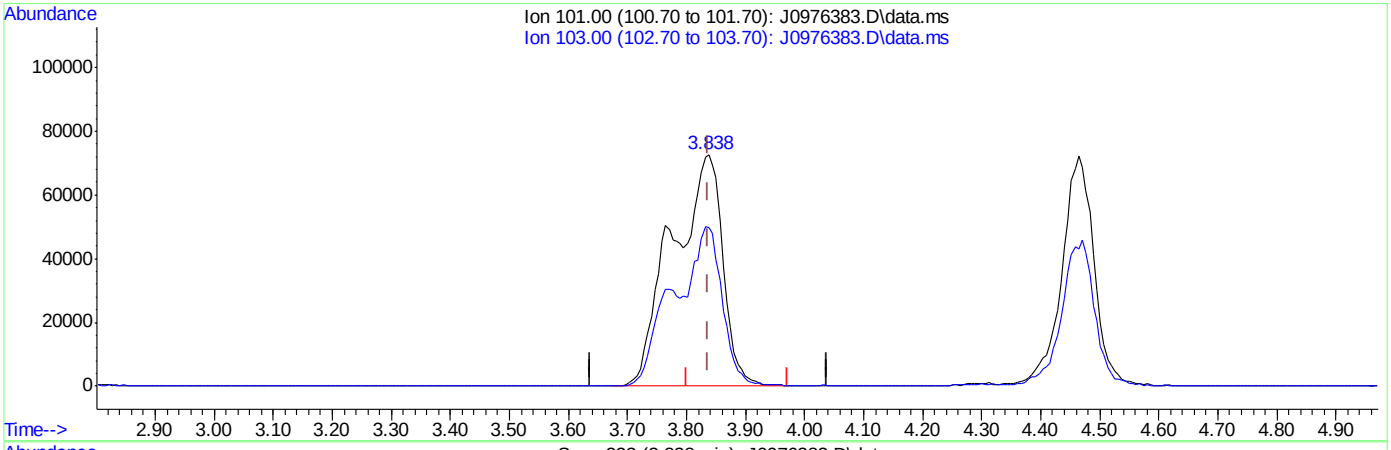
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	68.09
0.00	0.00	0.00
0.00	0.00	0.00

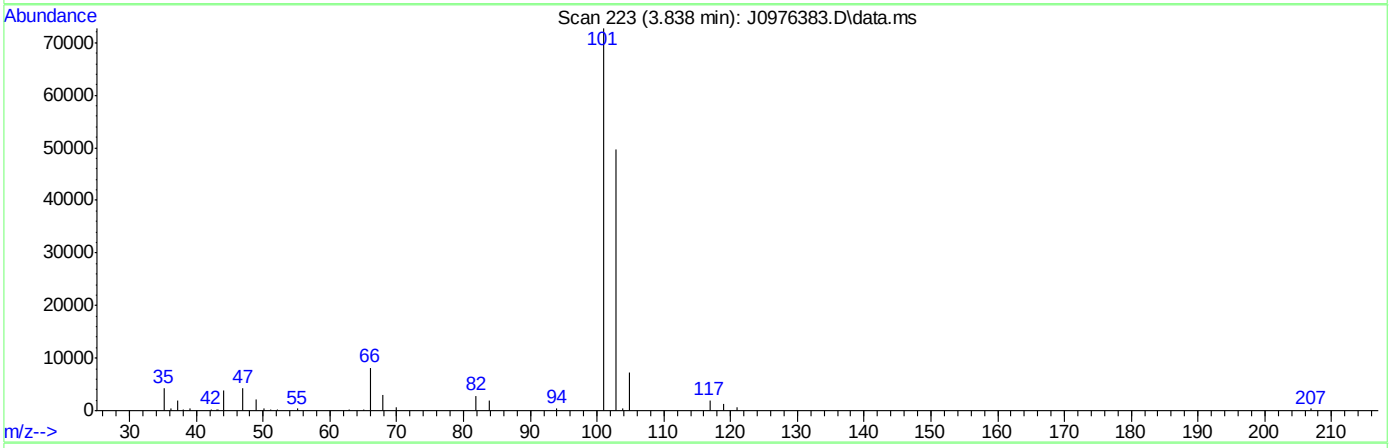
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976383.D
Acq On : 10 May 2016 9:01 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 09:20:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976383.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 39.47ug/L m

response 429912

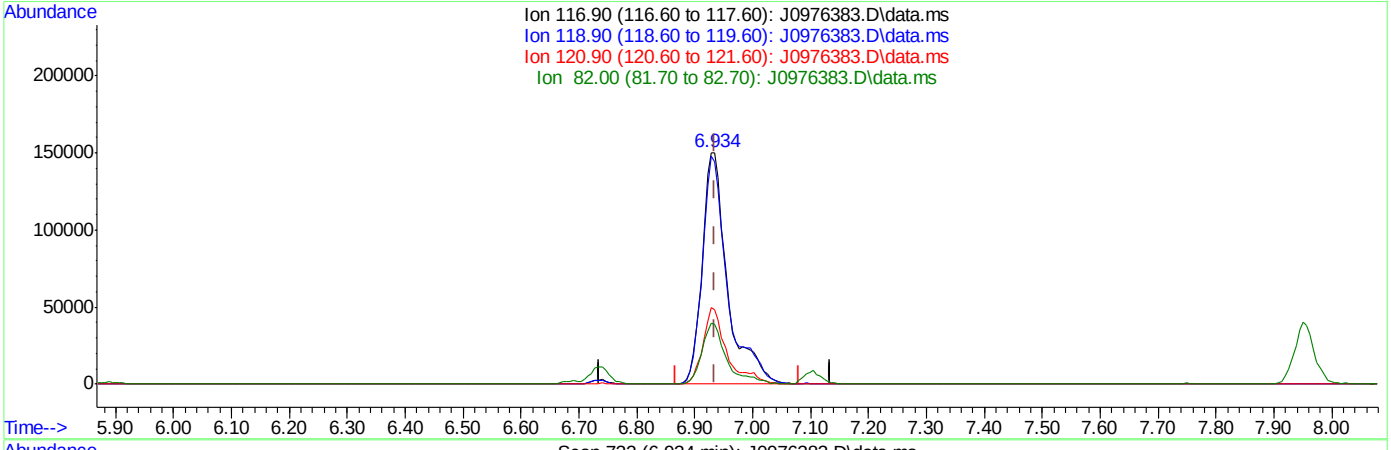
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	68.44
0.00	0.00	0.00
0.00	0.00	0.00

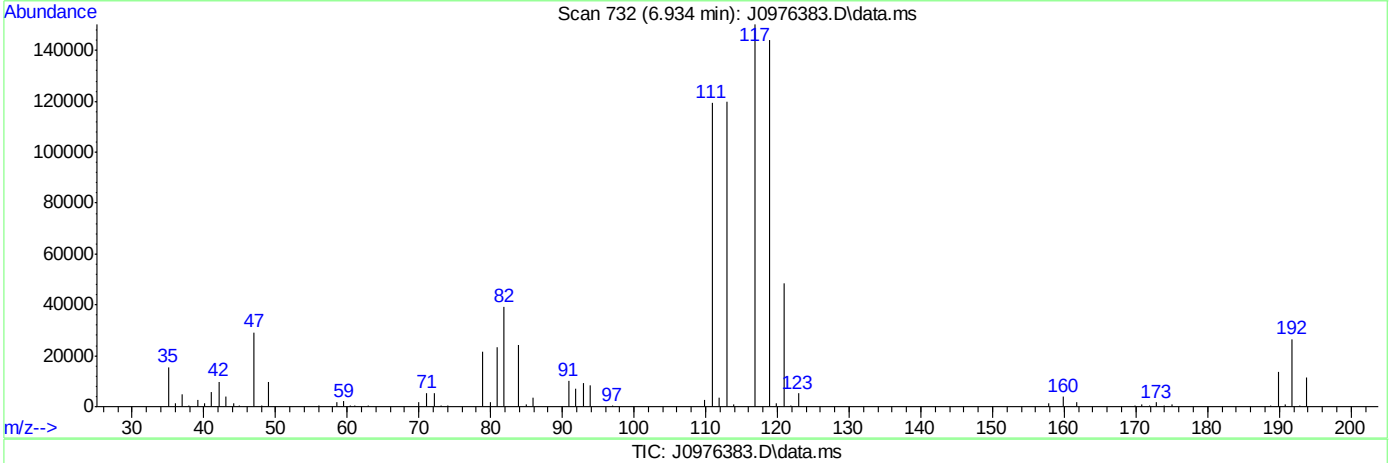
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976383.D
Acq On : 10 May 2016 9:01 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 09:20:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976383.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 51.79ug/L

response 461605

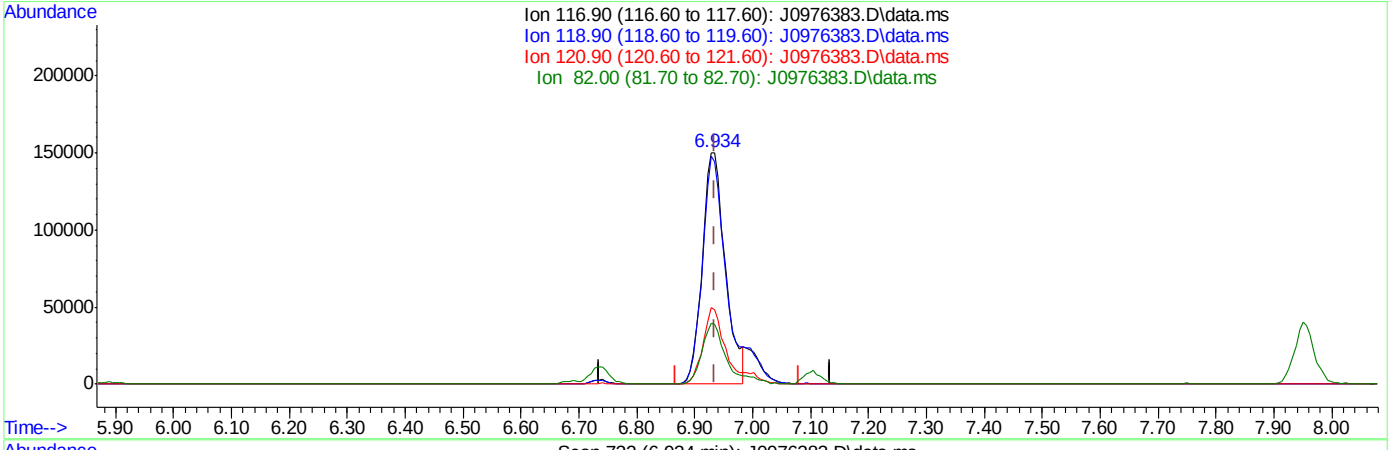
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.78
120.90	31.80	32.13
82.00	25.40	26.05

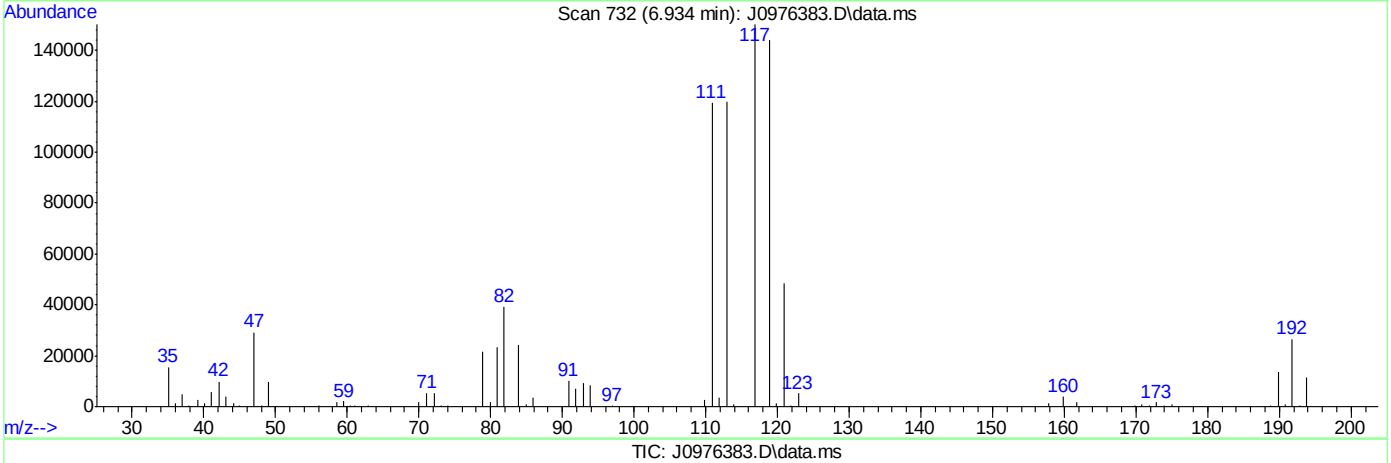
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976383.D
Acq On : 10 May 2016 9:01 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 09:20:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.934min (-0.001) 46.85ug/L m

response 417579

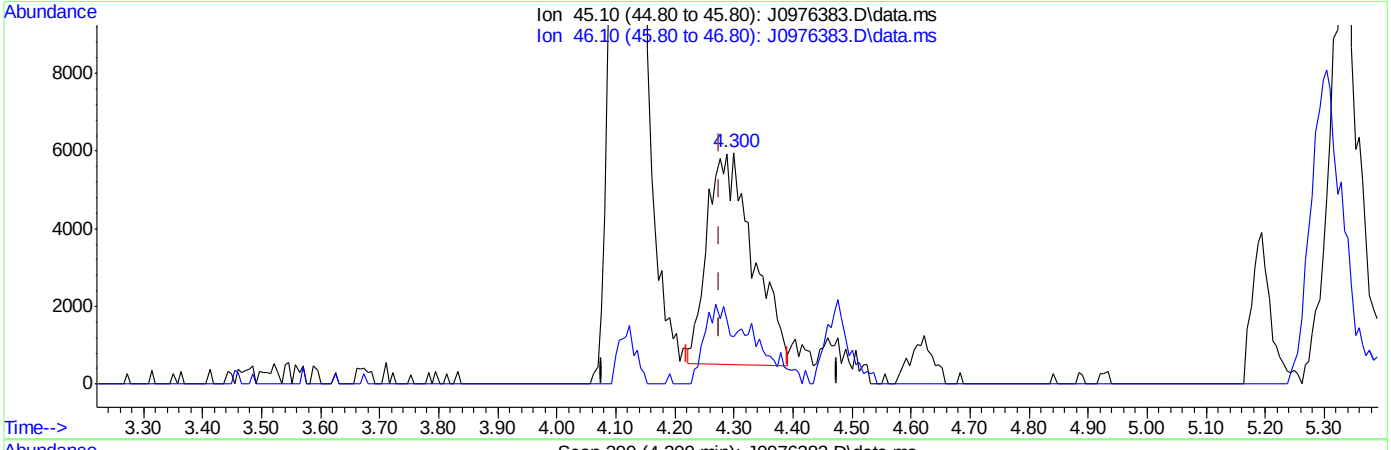
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.78
120.90	31.80	32.13
82.00	25.40	26.05

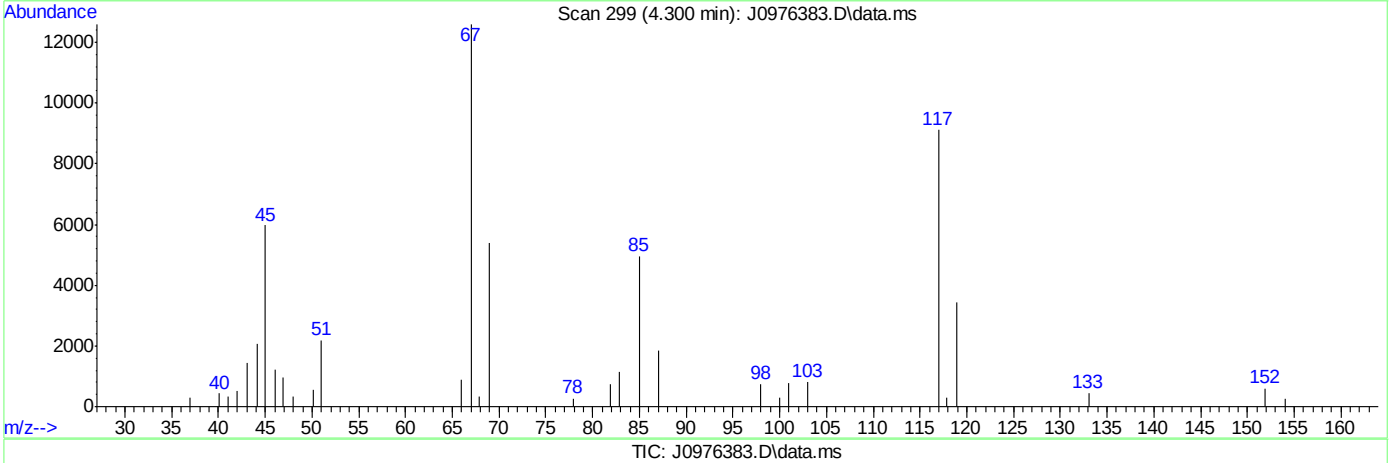
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976383.D
Acq On : 10 May 2016 9:01 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 09:20:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976383.D\data.ms

(107) Ethanol

4.300min (+0.024) 731.61ug/L

response 29215

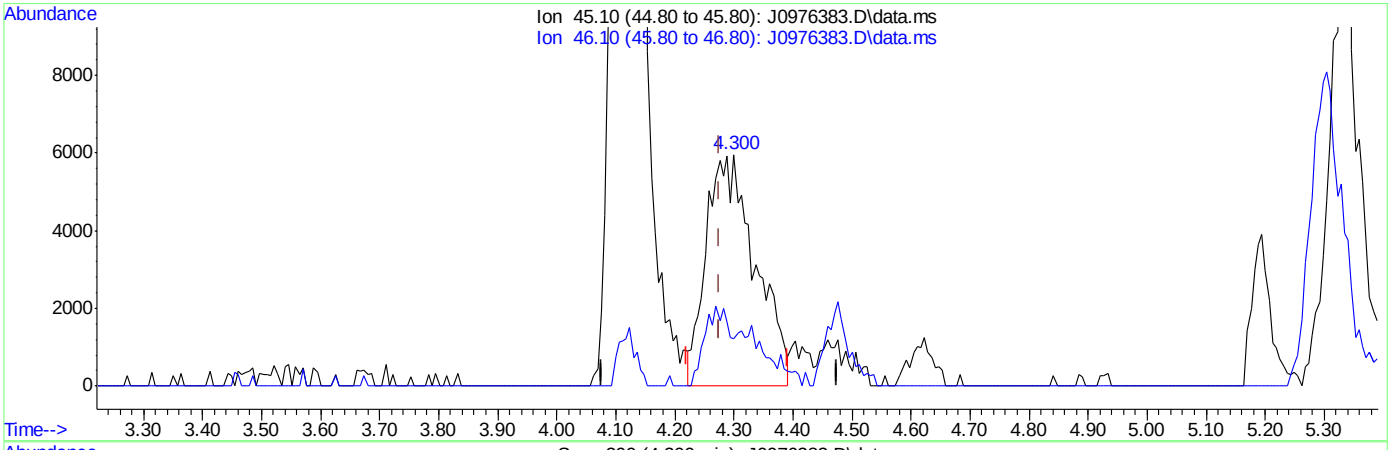
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	23.70
0.00	0.00	0.00
0.00	0.00	0.00

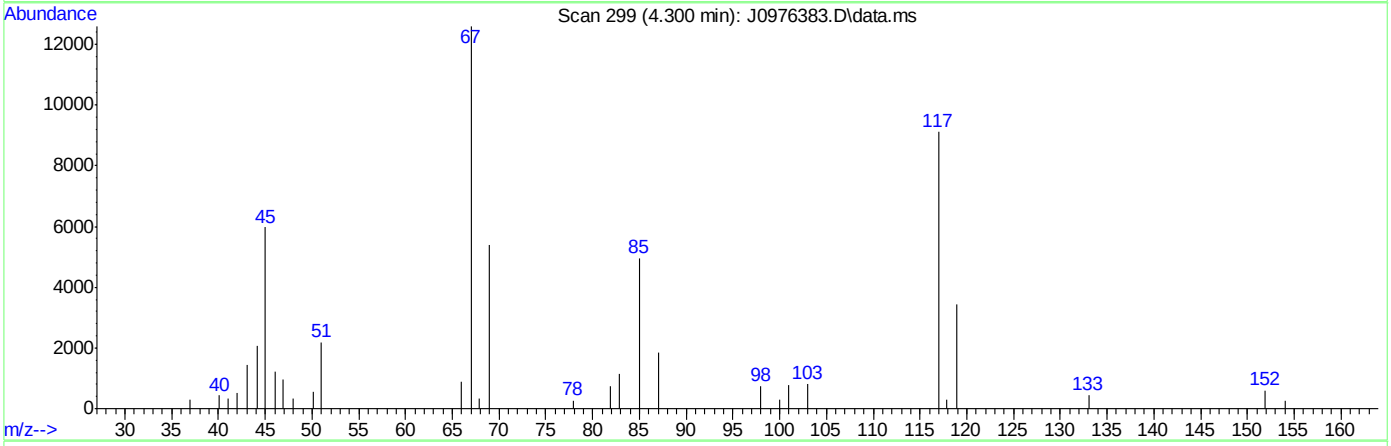
SGS ACCUTEST FA33788

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976383.D
Acq On : 10 May 2016 9:01 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5291,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 09:20:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976383.D\data.ms

(107) Ethanol

4.300min (+0.024) 877.31ug/L m

response 34422

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	20.70
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33788

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/11/16 15:22

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976409.D
Acq On : 10 May 2016 7:10 pm
Operator : darshnap
Sample : ECC5237-5 Inst : MSVOA6
Misc : MS33829,VJ5291,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 11 13:29:50 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1405968	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1137936	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	637816	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	94115	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	353553	49.56	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.12%			
46) 1,2-Dichloroethane-d4	7.476	65	415434	48.15	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.30%			
57) Toluene-d8	9.301	98	1407459	47.01	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 94.02%			
79) 4-Bromofluorobenzene	12.051	95	580297	50.30	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	326816	37.76	ug/L	100
3) Chloromethane	2.895	50	361365	39.02	ug/L	99
4) Vinyl Chloride	3.047	62	409313	43.14	ug/L	96
5) 1,3-Butadiene	3.041	54	336722	47.74	ug/L	100
6) Bromomethane	3.467	94	232073	34.64	ug/L	97
7) Chloroethane	3.613	64	175307	37.23	ug/L	96
8) Trichlorofluoromethane	3.838	101	521175m	44.28	ug/L	
9) Ethyl Ether	4.118	59	213009	39.18	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.361	67	327331	40.05	ug/L	96
11) 1,1-Dichloroethene	4.398	61	420545	41.31	ug/L	97
12) Freon 113	4.471	101	276501	39.28	ug/L	97
13) Carbon Disulfide	4.477	76	847733	39.99	ug/L	96
14) Iodomethane	4.586	142	442665	39.35	ug/L	97
15) Allyl chloride	4.921	41	388568	41.29	ug/L	93
16) Methylene Chloride	5.042	49	357428	38.99	ug/L	98
17) Acetone	5.067	58	80174	190.15	ug/L	85
18) Methyl acetate	5.194	74	145968	177.78	ug/L	97
19) trans-1,2-Dichloroethene	5.231	61	374730	40.08	ug/L	98
20) Hexane	5.304	56	235226	39.21	ug/L	97
21) Methyl Tert Butyl Ether	5.334	73	743039	39.87	ug/L	83
22) Acetonitrile	5.596	40	108046	408.27	ug/L	90
23) Di-isopropyl ether	5.718	45	827868	38.81	ug/L	99
24) Chloroprene	5.870	53	449426	44.71	ug/L	97
25) 1,1-Dichloroethane	5.900	63	505783	40.52	ug/L	99
26) Acrylonitrile	5.925	53	362090	194.08	ug/L	96
27) ETBE	6.119	59	897890	42.03	ug/L	100
28) Vinyl acetate	6.107	43	2275197	210.57	ug/L	97
29) cis-1,2-Dichloroethene	6.478	96	320737	40.02	ug/L	98
30) 2,2-Dichloropropane	6.606	77	404229	41.49	ug/L	94
31) Bromochloromethane	6.685	128	145007	40.02	ug/L	98
32) Cyclohexane	6.734	56	472100	40.23	ug/L	98
33) Chloroform	6.740	83	557936	40.26	ug/L	99
34) Ethyl acetate	6.807	43	769611	177.15	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976409.D
Acq On : 10 May 2016 7:10 pm
Operator : darshnap
Sample : ECC5237-5 Inst : MSVOA6
Misc : MS33829,VJ5291,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 11 13:29:50 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	43034	34.04 ug/L	92
37) Carbon Tetrachloride	6.934	117	428953m	44.53 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	497675	42.00 ug/L	98
39) 2-Butanone	7.020	43	350792	192.81 ug/L	98
40) 1,1-Dichloropropene	7.105	75	383610	40.09 ug/L	97
41) tert-Butyl Formate	7.184	59	1866006	428.82 ug/L	97
42) Propionitrile	7.330	54	251878	390.93 ug/L	82
43) Methacrylonitrile	7.360	41	1071376	357.33 ug/L	98
44) Benzene	7.354	78	1228229	42.17 ug/L	97
45) TAME	7.433	73	816050	42.33 ug/L	97
47) 1,2-Dichloroethane	7.549	62	383613	37.63 ug/L	99
48) Trichloroethene	7.932	95	307594	40.76 ug/L	95
49) Methylcyclohexane	7.956	83	555053	43.77 ug/L	97
50) Dibromomethane	8.358	93	162859	38.66 ug/L	99
51) 1,2-Dichloropropane	8.449	63	289604	39.58 ug/L	97
52) Bromodichloromethane	8.492	83	386384	41.19 ug/L	99
53) Methyl methacrylate	8.589	41	156266	40.40 ug/L	97
54) 2-Chloroethyl vinyl ether	9.009	63	755909	203.41 ug/L	97
55) cis-1,3-Dichloropropene	9.106	75	451659	39.93 ug/L	97
58) Toluene	9.356	91	1287778	39.07 ug/L	99
59) 2-Nitropropane	9.556	41	234563	179.28 ug/L	100
60) 4-Methyl-2-pentanone	9.672	43	952254	202.23 ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	400851	38.81 ug/L	94
62) Tetrachloroethene	9.757	166	341836	38.80 ug/L	98
63) Ethyl methacrylate	9.836	69	310000	41.18 ug/L	99
64) 1,1,2-Trichloroethane	9.903	83	211237	39.29 ug/L	98
65) Dibromochloromethane	10.098	129	279606	40.92 ug/L	99
66) 1,3-Dichloropropane	10.183	76	412983	37.60 ug/L	98
67) 1,2-Dibromoethane	10.359	107	230285	37.79 ug/L	98
68) 2-hexanone	10.487	43	656888	210.98 ug/L	97
69) 1-Chlorohexane	10.797	91	414478	42.88 ug/L	96
70) Ethylbenzene	10.858	91	1577329	41.97 ug/L	100
71) Chlorobenzene	10.864	112	905145	41.29 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	295282	41.41 ug/L	98
73) m,p-Xylene	10.998	91	2345111	81.52 ug/L	97
74) o-Xylene	11.436	91	1219514	42.00 ug/L	100
75) Styrene	11.485	104	958859	41.41 ug/L	99
76) Bromoform	11.546	173	183136	42.03 ug/L	96
77) Isopropylbenzene	11.740	105	1477714	44.04 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	66531	32.10 ug/L	95
81) n-Propylbenzene	12.160	91	1783110	44.06 ug/L	98
82) Bromobenzene	12.185	156	403555	42.35 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	313714	40.79 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	1354328	44.23 ug/L	98
85) 2-Chlorotoluene	12.349	91	1271993	42.82 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.397	53	64267	33.05 ug/L #	78
87) 1,2,3-Trichloropropane	12.379	110	83651	42.68 ug/L	97
88) Cyclohexanone	12.446	55	33763	273.93 ug/L	97
89) 4-Chlorotoluene	12.519	91	1149598	43.23 ug/L	98
90) a-Methyl Styrene	12.604	118	740714	84.69 ug/L	99

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976409.D
Acq On : 10 May 2016 7:10 pm
Operator : darshnap
Sample : ECC5237-5 Inst : MSVOA6
Misc : MS33829,VJ5291,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 11 13:29:50 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	767861	42.92 ug/L	99
92) 1,2,4-Trimethylbenzene	12.750	105	1340399	43.82 ug/L	99
93) Pentachloroethane	12.738	167	239401	41.57 ug/L	97
94) sec-Butylbenzene	12.866	105	1648930	44.59 ug/L	99
95) 4-Isopropyltoluene	13.000	119	1393681	44.93 ug/L	97
96) 1,3-Dichlorobenzene	13.134	146	705289	41.74 ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	721803	40.24 ug/L	96
98) n-Butylbenzene	13.432	92	788470	44.09 ug/L	96
99) Benzyl Chloride	13.450	126	104690	39.90 ug/L #	64
100) 1,2-Dichlorobenzene	13.645	146	641345	39.66 ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	41362	35.08 ug/L	92
102) Hexachlorobutadiene	14.928	225	292413	40.47 ug/L	96
103) 1,2,4-Trichlorobenzene	14.971	180	438026	37.09 ug/L	96
104) Naphthalene	15.257	128	635084	32.13 ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	365782	34.96 ug/L	97
107) Ethanol	4.288	45	22609	514.60 ug/L	77
108) acrolein	4.756	56	182974	166.28 ug/L	96
109) Tert Butyl Alcohol	5.377	59	172472	378.07 ug/L	94
110) tert Amyl alcohol	7.573	59	137110	428.49 ug/L	94
111) Isobutyl alcohol	7.451	42	122948	702.95 ug/L	96
112) 1,4-Dioxane	8.668	88	38171	1021.40 ug/L	97
113) 3,3-Dimethyl-1-butanol	10.432	57	758719	1935.53 ug/L	97

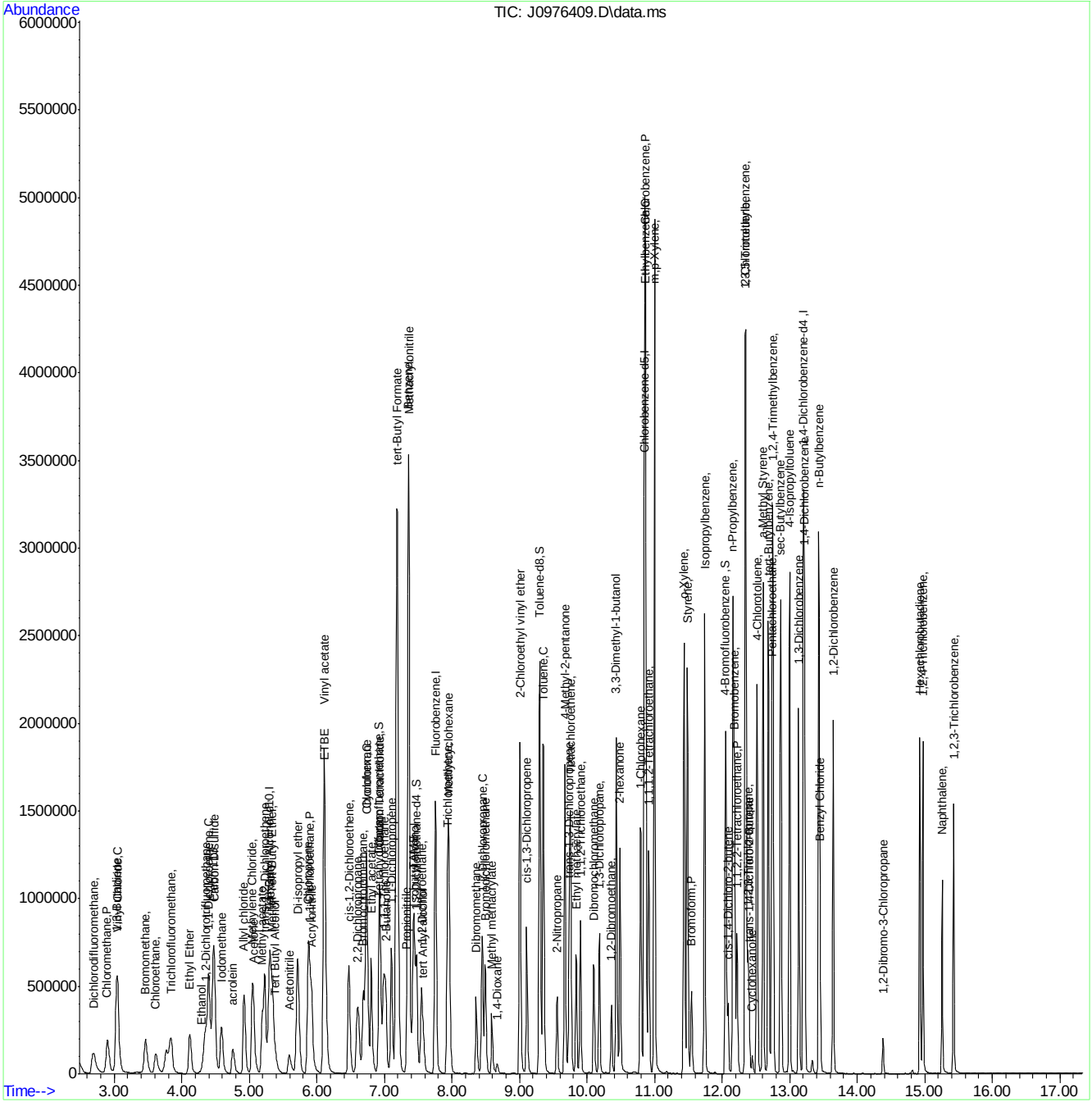
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33788

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976409.D
Acq On : 10 May 2016 7:10 pm
Operator : darshnap
Sample : ECC5237-5 Inst : MSVOA6
Misc : MS33829,VJ5291,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 11 13:29:50 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA33788

Manual Integration Approval Summary

Sample Number:	VJ5291-ECC5237	**Method:**	SW846 8260B
Lab FileID:	J0976409.D	**Analyst approved:**	05/11/16 14:45 Wilfredo Vazquez
Injection Time:	05/10/16 19:10	**Supervisor approved:**	05/11/16 15:22 Juan Garcia

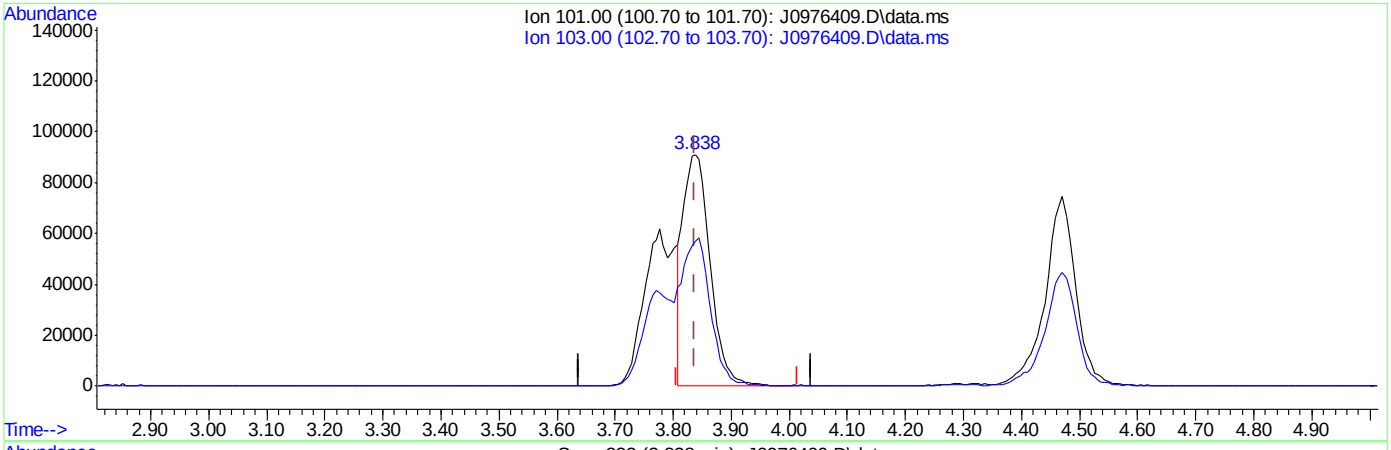
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

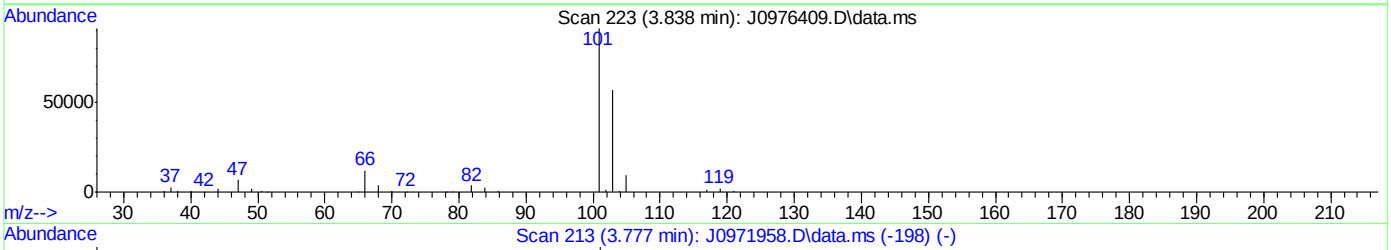
SGS ACCUTEST
FA33788

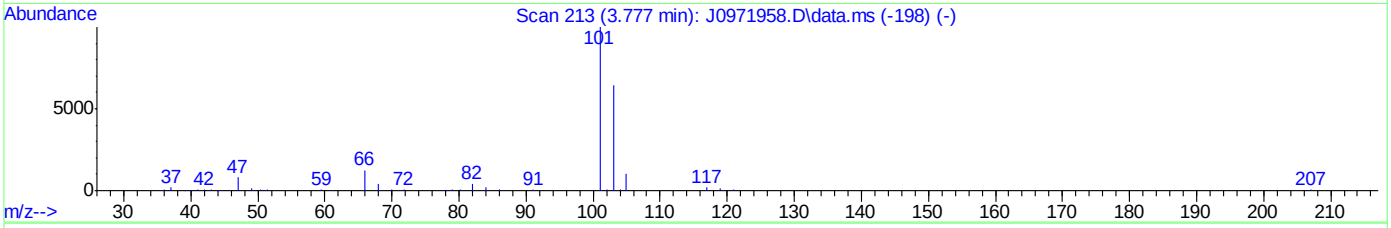
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976409.D
Acq On : 10 May 2016 7:10 pm
Operator : darshnap
Sample : ECC5237-5 Inst : MSVOA6
Misc : MS33829,VJ5291,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 11 12:58:44 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976409.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 25.00ug/L

response 294206

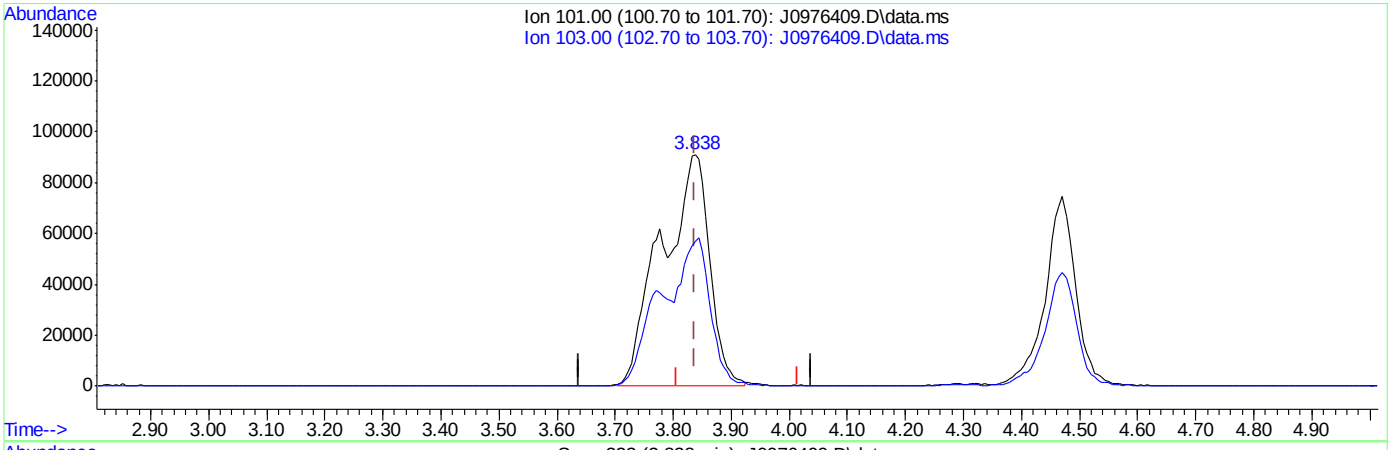
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.77
0.00	0.00	0.00
0.00	0.00	0.00

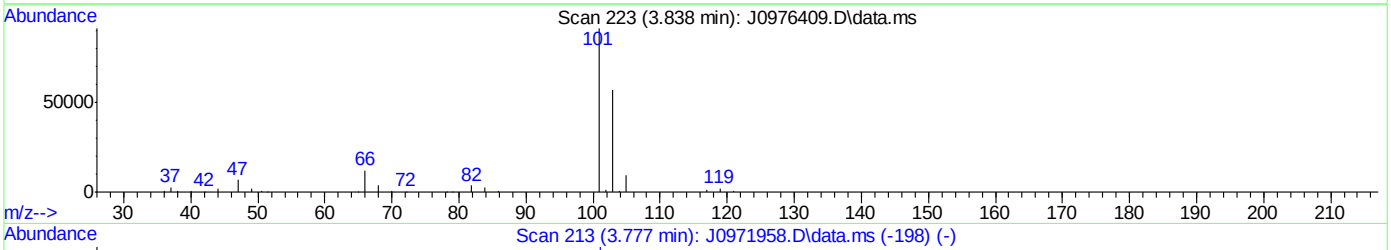
SGS ACCUTEST FA33788

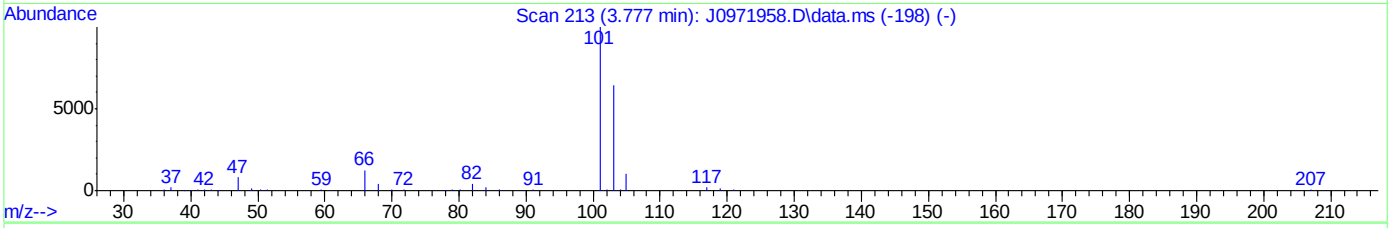
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976409.D
Acq On : 10 May 2016 7:10 pm
Operator : darshnap
Sample : ECC5237-5 Inst : MSVOA6
Misc : MS33829,VJ5291,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 11 12:58:44 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976409.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 44.28ug/L m

response 521175

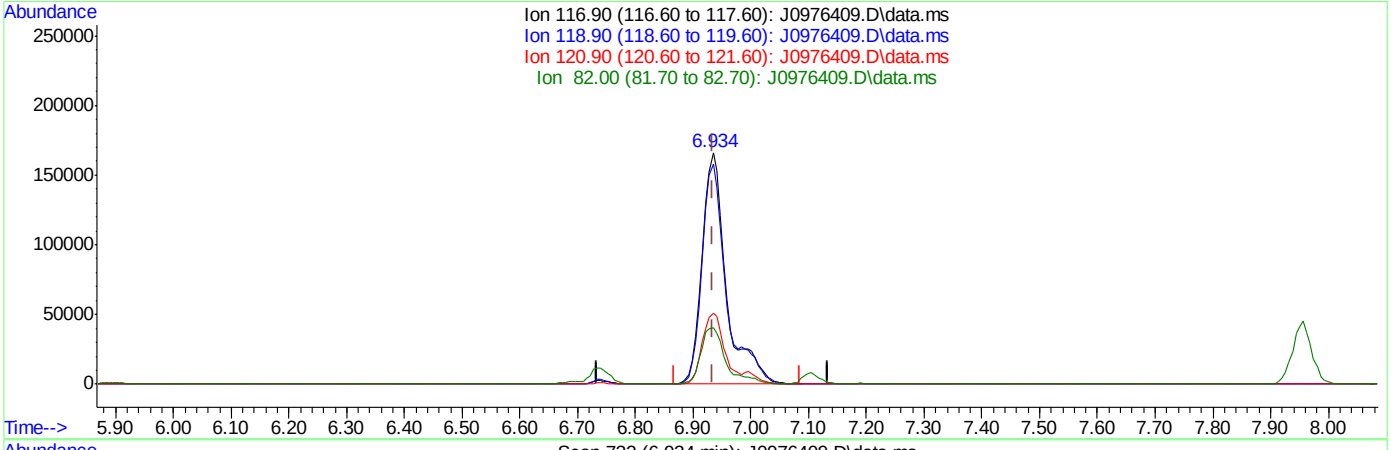
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.58
0.00	0.00	0.00
0.00	0.00	0.00

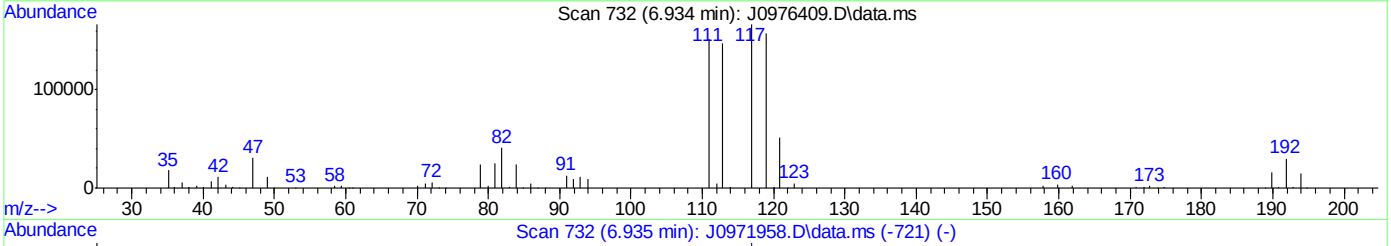
SGS ACCUTEST FA33788

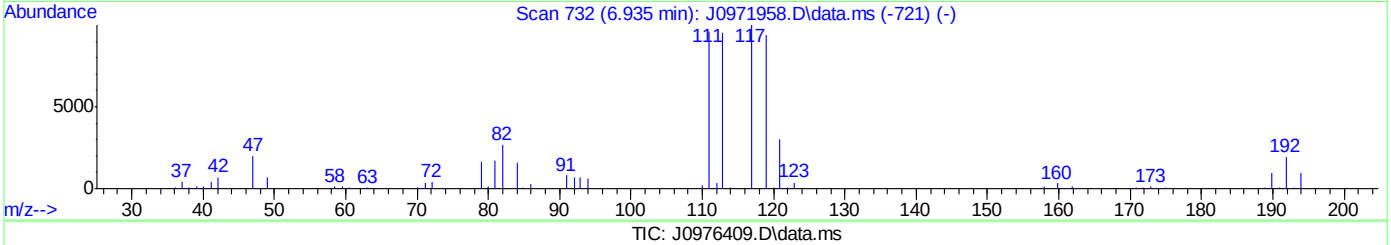
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976409.D
Acq On : 10 May 2016 7:10 pm
Operator : darshnap
Sample : ECC5237-5 Inst : MSVOA6
Misc : MS33829,VJ5291,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 11 12:58:44 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976409.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 50.70ug/L

response 488344

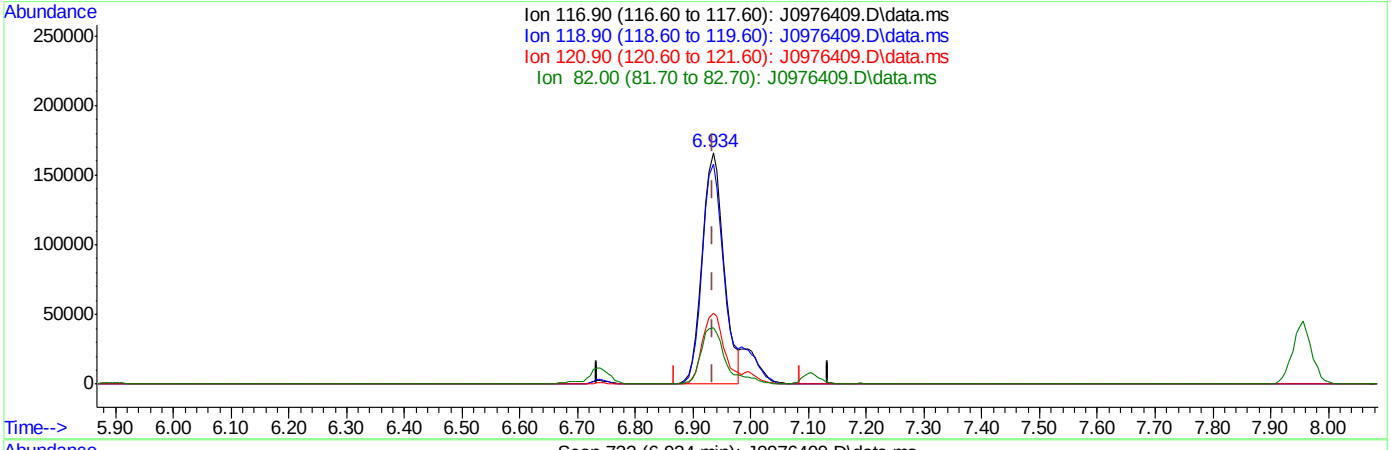
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.88
120.90	31.80	30.71
82.00	25.40	24.43

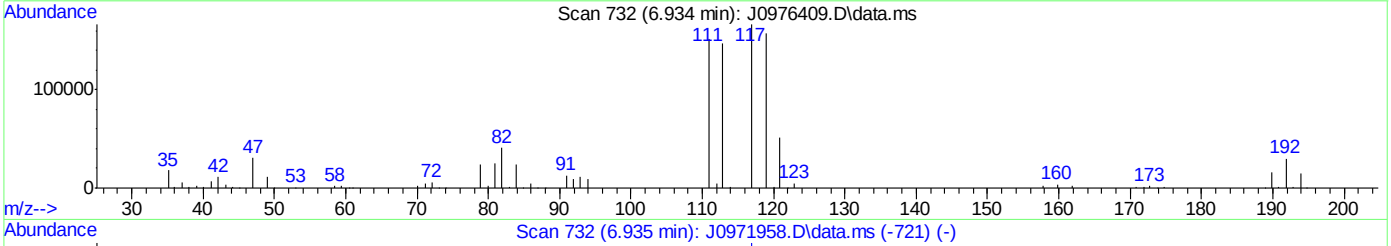
SGS ACCUTEST FA33788

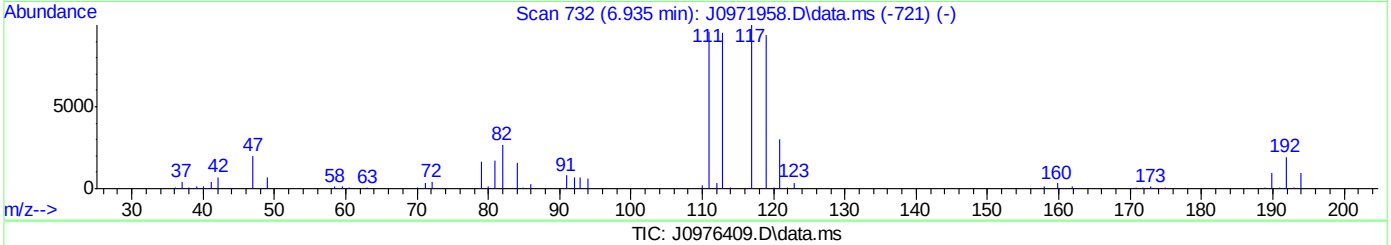
Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\051016\
Data File : J0976409.D
Acq On : 10 May 2016 7:10 pm
Operator : darshnap
Sample : ECC5237-5 Inst : MSVOA6
Misc : MS33829,VJ5291,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: May 11 12:58:44 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration







TIC: J0976409.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 44.53ug/L m

response 428953

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.88
120.90	31.80	30.71
82.00	25.40	24.43

SGS ACCUTEST FA33788

ACCUTEST LABORATORIES SE

DATE:	5-12-16
COLUMN TYPE:	RTX-Vmi
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA5-C
PURGE PRESSURE:	20
ANALYST:	S

MS VOA5-C ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	0512L16MA-C-50.L
CALIB. DATE:	05-12-16
EM VOLTAGE:	1694
BFB RESPONSE:	1480821
RUN ID:	VC 4595

STANDARDS

BFB:	BFB: V20120
ICAL/CCV:	ICAL/CCV: V20178,V20159,V20151, V20147,V20145,V20143
ISTD/SURR:	ISTD/SURR: V20161
ICV/QC:	ICV/QC: V20179,V20160,V20152, V20148,V20146,V20144
METHANOL LOT #:	STDB=25 µg/mL = 1ml/L / 24ml 157266

A B S

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS STDB=25 µg/mL=40ml/L/24ml
	c 0 11-5578	BFB	—	—	—	—	5	—		—	
	c 79	IC4595-1	—	—	—	—	6	—	104SP	—	0.1ml /5ml STDB
	c 80	IC4595-2	—	—	—	—	7	—	104SP	—	0.2ml
	c 81	IC4595-3	—	—	—	—	8	—	104SP Mop	—	0.4ml
	c 82	IC4595-4	—	—	—	—	9	—	104SP Mop	—	1ml
	c 83	IC4595-5	—	—	—	—	10	—	104SP Mop	—	2ml
	c 84	IC4595-6	—	—	—	—	11	—	104SP Mop	—	3ml
	c 85	IC4595-7	—	—	—	—	12	—	104SP 104OU Mop	—	4ml
	c 86	BLANK	—	—	—	—	13	—		—	
	c 87	ICV4595-4	—	—	—	—	14	—	104OU	—	1ml STDB/5ml
	c 88	BS	—	—	—	—	15	—		—	1ml STDB/5ml
	c 89	MB	—	—	—	100	16	—		—	
3050	c 90	FA33788-3	B2117	S	5.38	—	17	EN	8260R	—	
	c 91	-7	B2123	S	5.92	—	18	EN	1,4-DIOX bad. Col	—	
	c 92	-8	B2126	S	5.61	—	19	EN		—	
	c 93	-8,50X	B2127	S	5.03	100	20	EN		—	
	c 94	-8MS,50X	B2127	S	5.03	100	21	EN	104SP	—	1ml STD Bad Col
	c 95	-8MSD,50X	B2127	S	5.03	100	22	EN	104SP	—	
33860	c 96	FA33878-3,50X	B23263	S	5.49	100	23	EN		—	
	c 97	-3,500X	B23263	S	5.49	10	24	EN		—	90ml MeOH added
	c 98	-4,50X	B2326	S	5.53	100	25	EN		—	
	c 99	-4,500X	B2326	S	5.53	10	26	EN		—	90ml MeOH added
	c 600	ECC4595-4	—	—	—	—	27	—	104SP	—	1ml STDB/5ml
	c 01	Cond Blk	—	—	—	—	1	—		—	See VC4596
	c 02		—	—	—	—	2	—		—	
	c 03		—	—	—	—	3	—		—	
	c 04		—	—	—	—	4	—		—	

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: S

msvoa5_c_log.xls NF 07/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2110	FA33778-11	W	30.89	36.88	5.99	05/10/16	9:05	CG	PT	IN
11	-11	W	30.75	37.20	6.45		↓		↓	↓
12	-11	M	29.83	36.21	6.38		9:06		↓	↓
13	FA33788-3	W (AC2481)	—	—	5.09		10:53		EN	IN, FS, P
14	-3	W ↓	—	—	4.73		↓		↓	↓
15	-3	M (AC2480)	—	—	4.76		↓		↓	↓
16	-3	W	—	—	5.45		10:57		↓	↓
17	-3	W	—	—	5.38		↓		↓	↓
18	-3	M	—	—	5.15		↓		↓	↓
19	-3	W	—	—	5.21		11:00		↓	↓
20	-3	W	—	—	5.02		↓		↓	↓
21	-3	M	—	—	4.99		↓		↓	↓
22	-7	W	—	—	5.78		11:03		↓	↓
23	-7	W	—	—	5.92		↓		↓	↓
24	-7	M	—	—	6.18		↓		↓	↓
25	-8	W	—	—	5.62		11:06		↓	↓
26	-8	W	—	—	5.61		↓		↓	↓
27	-8	M	—	—	5.03		11:07		↓	↓
28	FA33790-1	W ($NaHSO_4$)	31.66	36.39	4.73				PT	IN, preserved
29	-1	W ↓	31.70	36.48	4.78		↓		↓	↓
30	-1	M	29.49	34.44	4.95		↓		↓	↓
31	-1	M	29.71	34.10	4.39		↓		↓	↓
B2132	-1	M	29.56	34.24	4.68	↓	11:23	↓	↓	↓

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Instrument Run Log VC4595 page 2 of 4

SGS ACCUTEST FA33788

471 of 505

7.7.1 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2202	FA33840-8	W (NaHSO4)	31.67	36.77	5.10	05/11/16	12:40	DKM	PT	IN
03	-8	W ↓	31.63	36.35	4.72					
04	-8	M	29.85	34.49	4.64					
05	-9	W (NaHSO4)	31.65	35.08	3.43					
06	-9	W ↓	31.68	35.46	3.78					
07	-9	M	29.81	33.72	3.91					
08	-10	W (NaHSO4)	31.71	31.73	0.02					TB
09	-10	W ↓	31.42	31.45	0.03		↓			↓
10	-10	M	29.83	29.80	-0.03		12:49			↓
11	FA33841-1	W (NaHSO4)	31.57	35.37	3.80		12:54			IN
12	-1	W ↓	31.63	35.70	4.07		↓			
13	-1	M	29.55	33.25	3.70		12:57			
14	FA33836-1	W	31.14	37.78	6.64		14:15			
15	-1	W	30.81	38.73	7.92					
16	-1	M	29.84	36.63	6.79					
17	-1	M	29.59	37.26	7.67					
18	-3-2	W	30.99	38.18	7.19					
19	-3-2	W	29.78	36.74	6.96					
20	-3-2	M	31.15	38.66	7.51					
21	-3-2	M	29.68	36.53	6.85					
22	-2-3	W	30.88	38.32	7.44					
23	-2-3	W	31.06	38.47	7.41		↓			
B2224	-2-3	M	29.64	37.04	7.40	↓	14:23	↓	↓	↓

DKM 05/11/16

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2317	FA33882-2	M	29.82	34.09	4.27	05/12/16	11:43	DKY	PT	IN
18	-2	M	29.80	34.20	4.40					
19	-3	M	29.87	33.98	4.11					
20	-3	M	29.80	34.28	4.48					
21	FA33878-3	W (AC2481)	—	—	5.53		11:51		EN	FS Unlocked
22	-3	W	—	—	5.56		11:53			
23	-3	M (AC2480)	—	—	5.49		11:54			
24	-4	W (AC2481)	—	—	5.72		11:57			
25	-4	W	—	—	5.63		11:58			
26	-4	M (AC2480)	—	—	5.53		12:00			
27	FA33902-2	M (AC2480)	—	—	5.10		15:17		5030A	OOH
28	-2	W (AC2481)	—	—	5.73					
29	-2	W	—	—	5.28		15:20			
30										
31										
32										
33										
34										
35										
36										
37										
38										
B2339										

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES SE

DATE:	05-09-16
COLUMN TYPE:	RTX Vm 5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA9-F
PURGE PRESSURE:	20
ANALYST:	S

MS VOA9-F ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	050916MM-F
CALIB. DATE:	05-09-16
EM VOLTAGE:	1847
BFB RESPONSE:	210 1280
RUN ID:	VF 2649

STANDARDS

A	BFB:	BFB: V20120
	ICAL/CCV:	ICAL/CCV: V20178,V20159,V20151, V20147,V20145,V20143
	ISTD/SURR:	ISTD/SURR: V20161
B	ICV/QC:	ICV/QC: V20179,V20160,V20152, V20148,V20146,V20144
	STD B=250 ppm=75 ug/ml/24ml	
	METHANOL LOT #:	157266

DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS STDA=250 ppm=60 ug/ml/24ml
F 0077207	BFB	—	—	—	—	5	—		—	Ave Passed
F 08	IC2649-1	—	—	—	—	6	—	104 SB 70%	—	0.1ml /5ml STDA
F 09	IC2649-2	—	—	—	—	7	—	104 SB	—	0.2ml
F 10	IC2649-3	—	—	—	—	8	—	104 SB	—	0.4ml
F 11	IC2649-4	—	—	—	—	9	—	104 SB	—	1ml
F 12	IC2649-5	—	—	—	—	10	—	104 SB	—	2ml
F 13	IC2649-6	—	—	—	—	11	—	104 SB	—	3ml
F 14	IC2649-7	—	—	—	—	12	—		—	4ml
F 15	Blank	—	—	—	—	13	—		—	
F 16	ICV2649-4	—	—	—	—	14	—	104 SB	—	1ml STD B/5ml
F 17	BS	—	—	—	—	15	—	104 SB	—	1ml STDB/5ml
F 18	MB	—	—	—	100	16	—	103 SB	—	
23822 F 19	FA33767-1	AA606	5	5.54	—	17	PT		—	
F 20	-2	AA609	5	5.48	—	18	PT		—	
F 21	-3	AA613	5	5.87	—	19	PT		RM	554↑, IS3↓ organic?
F 22	-4	AA615	5	5.54	—	20	PT		—	
F 23	FA33768-1,50X	AA641	5	5.31	100	21	PT		RM	50X
F 24	-1,500X	AA641	5	5.31	10	22	PT	Bad Neighbor 103 SB	EC	
F 25	FA33764-1	B1954	5	4.52	—	23	5030A 1W		RM	554↑ IS3↓
F 26	-2	B1957	5	5.07	—	24			—	
F 27	-3	B1960	5	~~4.48~~ 4.77	1W	25		B1961 4.71	—	
F 28	-4	B1964	5	4.70	—	26			—	
F 29	-5,50X	B1968	5	4.61	100	27			—	DIL BC noted
F 30	-6	~~B1969~~	5	~~5.05~~ 4.49	—	28		B1970 5.28	—	
F 31	FA33767-1MS	—	5	4.20	5.10	29	—	104 SB	—	1ml STDB added
F 32	-1MSD	—	5	4.18	—	30	—		—	
F 33	-3 CPX	AA619	5	4.88	—	31	5030A 1W		CFI	553,4↑, IS3↓

Analyst's Signature:

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

msvoa9_f_log.xls NF 07/11

SGS ACCUTEST FA3788

ACCUTEST LABORATORIES SE

DATE:	5-9-16
COLUMN TYPE:	RTX 5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA9-F
PURGE PRESSURE:	20
ANALYST:	

MS VOA9-F ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	050 9164109-F
CALIB. DATE:	05-09-16
EM VOLTAGE:	1847
BFB RESPONSE:	210280
RUN ID:	VF 2649

STANDARDS

BFB:	.BFB: V20120
ICAL/CCV:	.ICAL/CCV: V20178,V20159,V20151, .V20147,V20145,V20143
ISTD/SURR:	.ISTD/SURR: V20161
ICV/QC:	.ICV/QC: V20179,V20160,V20152, .V20148,V20146,V20144
STD B-7250 ppm=75	
METHANOL LOT #:	157266

A

B

DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
F 0077234	ECC2649-4	—	—	—	—	32	—	104 SB	—	1ml STD Alsmt
F 35	Cond Ku	—	—	—	—	1	—		—	See VF2650
F 36		—	—	—	—	2	—		—	
F 37		—	—	—	—	3	—		—	
F 38		—	—	—	—	4	—		—	
F										
F										
F								

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 1

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
AA597	FA32961-7	M	29.62	35.66	6.04	04/08/16	11:54	AH	PT	IN
98	-9	W	30.70	30.71	0.01	↓	↓	↓	↓	↓
99	-9	W	31.04	31.04	0.00	↓	↓	↓	↓	↓
AA600	-9	M	29.58	29.49	-0.09	↓	↓	↓	↓	↓
01	JC19023-1	W Bot 1	–		4.91	05/04/16	10:05	ACH	5030A	OOH 10mL FV
02	-2	Bot 2 ACH 05/04/16	–		5.05	↓	↓	↓	↓	↓
03	-4	Bot 3 ACH 05/04/16	–		5.00	↓	↓	↓	↓	↓
04	JC19423-1	W BOT 1	–		4.78	5/5/16	14:24	SH	5030A	OOH 10 mL FV
05	JC19473-3	↓ BOT 1	–		4.77	↓	↓	↓	↓	↓ ↓
06	FA33767-1	W	30.84	36.38	5.54	05-07-16	1236	SH	PT	IN
07	-1	W	30.81	36.06	5.25		↓	↓	↓	↓
08	-1	M	29.98	31.77	1.79					Leaked
09	-2	W	30.78	36.26	5.48					
10	-2	W	30.67	36.30	5.63					
11	-2	M	30.05	35.20	5.15					
12	-3	W	30.99	33.07	2.08					Leaked
13	-3	~~M~~ W SH 5-7-16	30.97	36.84	5.87					
14	-3	M	29.66	37.44	7.78					
15	-4	W	30.85	36.39	5.54					
16	-4	W	30.92	36.50	5.58					
17	-4	M	29.72	32.82	3.10		↓		↓	↓ Leaked
18	-1	M (AC2480)	—	—	4.60		1246		5030A	IN Bot#7
19	-3	W (AC2481)	—	—	4.88		1250	↓	5030A	W Bot#7

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 1.xls NF rev 08/11

Instrument Run Log VF2649 page 3 of 5

SGS ACCUTEST FA33788

476 of 505

7.7.2 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 1

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
AA620	FA33767-4	M (Ac2480)	—	—	4.50	05-07-16	1252	S	5030A	IN Bot #7
21	FA33765-4	W	30.66	36.11	5.45		1303		PT	IN
22	-4	W	30.55	36.75	6.20					
23	-4	M	29.59	35.32	5.73					
24	-5	W	30.49	37.10	6.61					
25	-5	W	30.46	37.91	7.45					
26	-5	M	29.19	36.54	7.35					
27	-6	W	30.63	37.82	7.19					
28	-6	W	30.67	38.06	7.39					
29	-6	M	29.20	35.99	6.79					
30	-7	W	30.76	38.62	7.86					
31	-7	W	30.55	38.75	8.20					
32	-7	M	29.40	37.04	7.64					
33	-8	W	30.55	38.21	7.66					
34	-8	W	30.60	38.20	7.60					
35	-8	M	29.51	36.15	6.64					
36	-9	W	30.69	37.60	6.91					
37	-9	W	30.75	38.76	8.01					
38	-9	M	29.34	36.64	7.30		1315			
39	FA33768-1	W (NaHSO4)	31.20	36.82	5.62		1319			
40	-1	W	31.29	36.87	5.58					
41	-1	M	29.49	34.80	5.31					
42	-1	M	29.52	35.56	6.04		1320			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 1.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1949	FA33755-3	W	30.89	36.86	5.97	05/07/16	10:24	DKM	PT	IN
50	-3	M	29.94	35.79	5.85					
51	-4	W	30.80	35.78	4.98					
52	-4	W	30.79	37.21	6.42					
53	-4	M	29.54	35.09	5.55		10:29			
54	FA33764-1	W (AC2481)	—	—	4.52	05/07/16	11:02	DKM	5030A	IN Both
55	-1	W	—	—	4.75					
56	-1	M (AC2456)	—	—	4.55		11:07			
57	-2	W (AC2481)	—	—	5.07		11:10			
58	-2	W	—	—	4.76					
59	-2	M (AC2456)	—	—	4.66		11:15			
60	-3	W (AC2481)	—	—	4.83		11:21			
61	-3	W	—	—	4.71					
62	-3	M (AC2456)	—	—	4.55					
63	-4	W (AC2481)	—	—	4.51		11:27			
64	-4	W	—	—	4.70					
65	-4	M (AC2456)	—	—	4.90					
66	-5	W (AC2481)	—	—	4.52		11:31			SO
67	-5	W	—	—	4.69					
68	-5	M (AC2456)	—	—	4.61					
69	-6	W (AC2481)	—	—	4.60		11:35			
70	-6	W	—	—	5.28					
B1971	-6	M (AC2456)	—	—	4.81		11:40			

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES SE

DATE:	5-11-16
COLUMN TYPE:	RTX VM 5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA9-F
PURGE PRESSURE:	20
ANALYST:	S

MS VOA9-F ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	050516MS9-F
CALIB. DATE:	05-09-16
EM VOLTAGE:	1871
BFB RESPONSE:	1626788
RUN ID:	VF 2651

VF2652

STANDARDS

A	BFB:	BFB: V20120
	ICAL/CCV:	ICAL/CCV: V20178,V20159,V20151, V20147,V20145,V20143
B	ISTD/SURR:	ISTD/SURR: V20161
	ICV/QC:	ICV/QC: V20179,V20160,V20152, V20148,V20146,V20144
	SDB = 250 ppm	
	METHANOL LOT #:	157266

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
	F 0077270	BFB	—	—	—	—	5	—		—	Are passed
	F 71	OC2649-4	—	—	—	—	6	—	104 SB	—	1ml STD/1SM
	F 72	BS	—	—	—	—	7	—	104SB	—	1 ml STD/1SM
	F 73	MB	—	—	—	100	8	—	103 mp	—	
630	F 74	FA33764-18,50X	B2007	S	4.53	10	9	5030A W	90ul Methadlate 103SB	EC	Stop 2-2-16
643	F 75	FA33764-24,50X	B2025	S	5.58	100	10	↓	31log, 82mg, 440g	RR	500X
	F 76	-38	AA660	S	5.11	—	11	5030A 00 H		—	
	F 77	-39	AA663	S	5.41	—	12			—	
	F 78	-40	AA666	S	4.83	—	13			—	
	F 79	-41	AA668	S	5.75	—	14			—	
	F 80	-42,50X	AA673	S	5.04	100	15	↓		RR	500X
	F 81	-24,500X	B2025	S	5.58	10	16	5030A W		EC	90ul Methadlate
	F 82	-43,TB	B2081	S	5.00	—	17	PT		—	NOT LOGGED
	F 83	-44,TB	B2084	S	5.00	—	18	PT		—	" " "
859	F 84	FA33788-5	B2119	S	5.21	—	19	EW	VF2652 (8260C)	RR	Acetone 1X
	F 85	-7	B2122	S	5.78	—	20	EW		RR	1X
	F 86	-8	B2125	S	5.62	—	21	EW		RR	1X, 50X
	F 87	-3MS	B2113	S	5.09	—	22	EW	104SB	—	1ml STD Added
	F 88	-3MSD	B2120	S	5.02	—	23	EW	104SB	—	" " "
	F 89	FA33834-3	B2172	S	5.38	—	24	EW	VF2652	—	
843	F 90	FA33764-42,50X	AA673	S	5.04	10	25	5030A 00 H	VF2651	—	90ul Methadlate
	F 91	-35MS	—	S	4.54	—	26	—	104SB	—	1ml STD Added
	F 92	-35MSD	—	S	4.55	—	27	—		—	" " "
	F 93	FA33816-1	AA675	S	5.15	—	28	PT		—	
	F 94	-2	AA679	S	4.84	—	29	PT		—	
	F 95	-3	AA682	S	4.79	—	30	PT		—	
	F 96	-4	AA686	S	4.98	—	31	PT		—	

Analyst's Signature:

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

msvoa9_f_log.xls NF 07/11

ACCUTEST LABORATORIES SE

DATE:	5-11-16
COLUMN TYPE:	RTX Vm 5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA9-F
PURGE PRESSURE:	20
ANALYST:	J

MS VOA9-F ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	050916APP9-F
CALIB. DATE:	05-09-16
EM VOLTAGE:	1871
BFB RESPONSE:	1626788
RUN ID:	VF2651,VF2652

STANDARDS

BFB:	.BFB: V20120
ICAL/CCV:	.ICAL/CCV: V20178,V20159,V20151, .V20147,V20145,V20143
ISTD/SURR:	.ISTD/SURR: V20161
ICV/QC:	.ICV/QC: V20179,V20160,V20152, .V20148,V20146,V20144
	STDB=250 ppm=75 ug/ml/24 ul
METHANOL LOT #:	157266

A

B

DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS STDA=250 ppm=50 ug/ml/24 ul
F 0017297	ECR2649-4	—	—	—	—	32	—	104 SP	—	Int STDA/Int
F 98	Cond Blk	—	—	—	—	1	—		—	See VF2653
F 99		—	—	—	—	2	—		—	
F 300		—	—	—	—	3	—		—	
F 01		—	—	—	—	4	—		—	
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										

5-12-16

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature:

msvoa9_f_log.xls NF 07/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 1

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
AA666	FA33764-40	W (AC2481)	—	—	4.83	05-07-16	1437	[illegible]	5030a	OOH Bot#1
67	-40	M (AC2480)	—	—	4.92		1438			
68	[illegible]-41	W	NA	NA	5.75 [illegible]		1445			OOH
69	-41 ~~-42~~	~~M~~ W			~~4.46~~ 5.46					
70	-41	M			5.17					
71	-42	W			4.62		1447			
72	-42	W			4.59					
73	-42	M			5.04		1448			
74	FA33816-1	W	30.99	35.97	4.98	05/10/16	1615	CG	PT	IN
75	-1	W	30.98	36.13	5.15					
76	-1	M	29.49	34.34	4.85					
77	-1	M	29.84	34.66	4.82					
78	-2	W	30.99	35.85	4.86					
79	-2	W	30.92	35.76	4.84					
80	-2	M	29.88	34.51	4.63					
81	-2	M	29.73	34.49	4.76					
82	-3	W	31.20	35.99	4.79					
83	-3	W	31.05	35.54	4.49					
84	-3	M	29.89	34.43	4.54					
85	-3	M	30.02	34.35	4.33					
86	-4	W	31.07	36.05	4.98					
87	-4	W	31.06	35.97	4.91					
88	-4	M	29.75	34.57	4.82		1625			

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 1.xls NF rev 08/11

Instrument Run Log VF2651 page 3 of 11

SGS ACCUTEST FA33788

481 of 505

7.7.3 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2064	FA33764-37	~~W~~ encore M (AC2456)	—	—		05/07/16			5030A	OOH Bot#1
65	-38	W (AC2481)	—	—						
66	-38	W ↓	—	—						
67	-38	M (AC2456)	—	—						
68	-39	W (AC2481)	—	—						
69	-39	W ↓	—	—						
70	-39	M (AC2456)	—	—						
71	-40	W (AC2456 ~~AC2481~~ ammo)	—	—						
72	-40	W (AC2481)	—	—						
73	-40	M (AC2456)	—	—						
74	-41	W (AC2481)	—	—						
75	-41	W ↓	—	—						
76	-41	M (AC2456)	—	—						
77	-42	W (AC2481)	—	—						
78	-42	W ↓	—	—						
79	-42	M (AC2456)	—	—						
80	FA33764-43	W	30.91	30.88	-0.03	05/07/16	14:48	JDM	PT	IN TB
81	-43	W	31.04	31.03	-0.01					
82	-43	M	29.60	29.54	-0.06					
83	-44	W	30.98	30.97	-0.01					
84	-44	W	31.04	31.01	-0.03					
85	-44	M	29.87	29.68	-0.19		14:56			
B2086	FA 33780-1	W	30.88	35.88	5.00	05/10/16	8:42	CG	PT	IN

JDM 05/07/16

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1995	FA33764-14	M (AC2456)	—	—	4.75	05/07/16	13:14	JKM	5030A	IN Bottle
96	-15	W (AC2481)	—	—	4.70	↓	13:18	↓	↓	↓
97	15	W ↓	—	—	4.83	↓	↓	↓	↓	↓
98	-15	M (AC2456)	—	—	5.38	↓	↓	↓	↓	↓
99	-16	W (AC2481)	—	—	5.08	↓	13:23	↓	↓	↓
B2000	-16	W ↓	—	—	5.79	↓	↓	↓	↓	↓
01	-16	M (AC2456)	—	—	4.54	↓	↓	↓	↓	↓
02	-17	W (AC2481)	—	—	4.50	↓	13:27	↓	↓	↓
03	-17	W ↓	—	—	4.80	↓	↓	↓	↓	↓
04	-17	M (AC2456)	—	—	4.84	↓	↓	↓	↓	↓
05	-18	W (AC2481)	—	—	4.98	↓	13:31	↓	↓	↓
06	-18	W ↓	—	—	4.56	↓	↓	↓	↓	↓
07	-18	M (AC2456)	—	—	4.53	↓	↓	↓	↓	↓
08	-19	W (AC2481)	—	—	5.35	↓	13:37	↓	↓	↓
09	-19	W ↓	—	—	5.60	↓	↓	↓	↓	↓
10	-19	M (AC2456)	—	—	4.86	↓	↓	↓	↓	↓
11	-20	W (AC2481)	—	—	4.87	↓	13:41	↓	↓	↓
12	-20	W ↓	—	—	5.16	↓	↓	↓	↓	↓
13	-20	M (AC2456)	—	—	5.39	↓	↓	↓	↓	↓
14	-21	W (AC2481)	—	—	5.40	↓	13:45	↓	↓	SO
15	-21	W ↓	—	—	5.10	↓	↓	↓	↓	↓
16	-21	M (AC2456)	—	—	5.25	↓	↓	↓	↓	↓
B2017	-22	W (AC2481)	—	—	4.66	↓	13:48	↓	↓	SO

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Instrument Run Log VF2651 page 5 of 11

SGS ACCUTEST FA33788

483 of 505

7.7.3 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type	Comments
B2018	FA33764-22	W (AC2481)	—	—	6.07	05/07/16	13:50	JCM	PT	IN B0461
19	-22	M (AC2456)	—	—	4.91	↓	↓	↓	5030A	↓ ↓
20	-23	W (AC2481)	—	—	4.88	↓	13:53	↓	↓	↓ ↓
21	-23	W ↓	—	—	5.99	↓	↓	↓	↓	↓ ↓
22	-23	M (AC2480)	—	—	4.65	↓	↓	↓	↓	↓ ↓
23	-24	W (AC2481)	—	—	4.96	↓	13:57	↓	↓	SO ↓
24	-24	W ↓	—	—	4.88	↓	↓	↓	↓	↓ ↓
25	-24	M (AC2480)	—	—	5.58	↓	↓	↓	↓	↓ ↓
26	-25	W (AC2481)	—	—	5.15	05/07/16	14:20	JCM	5030A	OOH B0461
27	-25	W ↓	—	—	4.74	↓	↓	↓	↓	↓ ↓
28	-25	M (AC2456)	—	—	4.99	↓	↓	↓	↓	↓ ↓
29	-26	W (AC2481)	—	—	4.76	↓	14:25	↓	↓	↓ ↓
30	-26	W ↓	—	—	4.92	↓	↓	↓	↓	↓ ↓
31	-26	M (AC2456)	—	—	6.05	↓	↓	↓	↓	↓ ↓
32	-27	W (AC2481)	—	—	5.31	↓	14:27	↓	↓	↓ ↓
33	-27	W (AC2481)	—	—	4.53	↓	↓	↓	↓	↓ ↓
34	-27	M (AC2456)	—	—	5.32	↓	↓	↓	↓	↓ ↓
35	-28	W (AC2481)	—	—	5.62	↓	14:31	↓	↓	↓ ↓
36	-28	W ↓	—	—	4.84	↓	↓	↓	↓	↓ ↓
37	-28	M (AC2456)	—	—	4.65	↓	↓	↓	↓	↓ ↓
38	-29	W (AC2481)	—	—	5.70	↓	14:33	↓	↓	↓ ↓
39	-29	W ↓	—	—	4.71	↓	↓	↓	↓	↓ ↓
B2040	-29	M (AC2456	—	—	4.80	↓	14:36	↓	↓	↓ ↓

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 1

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
AA643	FA33768-1	M	29.54	34.71	5.17	05-07-16	1321	Gy	PT	IN
44	FA33764-35	W (AC2481)	NA	NA	5.07		1423		5030A	~~OOH~~ Bot #
45	-35	W			3.85					
46	-35	M (AC2480)			4.30					
47	-36	W			5.66		1425			~~OOH~~
48	-36	W			4.79					
49	-36	M			5.66					
50	-34	W			5.49		1428			~~OOH~~
51	-34	W			4.62					
52	-34	M			4.89					
53	-33	W			5.83		1430			~~OOH~~
54	-33	W			4.53					
55	-33	M			4.74					
56	-37	W			5.98		1432			OOH
57	-37	W			5.35					
58	-37	M			6.22					
59	-38	W			4.47		1433			OOH
60	-38	W			5.11					
61	-38	M			5.49					
62	-39	W			4.90		1435			OOH
63	-39	W			5.41					
64	-39	M			5.67					
65	-40	W			5.07		1436			OOH

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 1.xls NF rev 08/11

SGS ACCUTEST FA33788

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 1

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
AA666	FA33764-40	W (AC2481)	—	—	4.83	05-07-16	1437		5030A	OOH Bot#1
67	-40	M (AC2480)	—	—	4.92		1438			
68	~~-41~~	W	NA	NA	5.75		1445			OOH
69	-41 ~~-42~~	~~M~~ W			~~4.46~~ 5.46					
70	-41	M			5.17					
71	-42	W			4.62		1447			
72	-42	W			4.59					
73	-42	M			5.04		1448			
74	FA33816-1	W	30.99	35.97	4.98	05/10/16	1615	CG	PT	IN
75	-1	W	30.98	36.13	5.15					
76	-1	M	29.49	34.34	4.85					
77	-1	M	29.84	34.66	4.82					
78	-2	W	30.99	35.85	4.86					
79	-2	W	30.92	35.76	4.84					
80	-2	M	29.88	34.51	4.63					
81	-2	M	29.73	34.49	4.76					
82	-3	W	31.20	35.99	4.79					
83	-3	W	31.05	35.54	4.49					
84	-3	M	29.89	34.43	4.54					
85	-3	M	30.02	34.35	4.33					
86	-4	W	31.07	36.05	4.98					
87	-4	W	31.06	35.97	4.91					
88	-4	M	29.75	34.57	4.82		1625			

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 1.xls NF rev 08/11

Instrument Run Log VF2651 page 8 of 11

SGS ACCUTEST FA33788

486 of 505

7.7.3 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2064	FA33764-37	~~W~~ M (AC2456)	—	—		05/07/16			5030A	OOH Bot#1
65	-38	W (AC2481)	—	—						
66	-38	W ↓	—	—						
67	-38	M (AC2456)	—	—						
68	-39	W (AC2481)	—	—						
69	-39	W ↓	—	—						
70	-39	M (AC2456)	—	—						
71	-40	W (AC2456)	—	—						
72	-40	W (AC2481)	—	—						
73	-40	M (AC2456)	—	—						
74	-41	W (AC2481)	—	—						
75	-41	W ↓	—	—						
76	-41	M (AC2456)	—	—						
77	-42	W (AC2481)	—	—						
78	-42	W ↓	—	—						
79	-42	M (AC2456)	—	—						
80	FA33764-43	W	30.91	30.88	-0.03	05/07/16	14:48	JDM	PT	IN TB
81	-43	W	31.04	31.03	-0.01					
82	-43	M	29.60	29.54	-0.06					
83	-44	W	30.98	30.97	-0.01					
84	-44	W	31.04	31.01	-0.03					
85	-44	M	29.87	29.68	-0.19		14:56			
B2086	FA 33780-1	W	30.88	35.88	5.00	05/10/16	8:42	CG	PT	IN

DKM 05/07/16

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2110	FA33778-11	W	30.89	36.88	5.99	05/10/16	9:05	CG	PT	IN
11	-11	W	30.75	37.20	6.45		↓		↓	↓
12	-11	M	29.83	36.21	6.38		9:06		↓	↓
13	FA33788-3	W (AC2481)	—	—	5.09		10:53		EN	IN, FS, P
14	-3	W ↓	—	—	4.73		↓		↓	↓
15	-3	M (AC2480)	—	—	4.76		↓		↓	↓
16	-3	W	—	—	5.45		10:57		↓	↓
17	-3	W	—	—	5.38		↓		↓	↓
18	-3	M	—	—	5.15		↓		↓	↓
19	-3	W	—	—	5.21		11:00		↓	↓
20	-3	W	—	—	5.02		↓		↓	↓
21	-3	M	—	—	4.99		↓		↓	↓
22	-7	W	—	—	5.78		11:03		↓	↓
23	-7	W	—	—	5.92		↓		↓	↓
24	-7	M	—	—	6.18		↓		↓	↓
25	-8	W	—	—	5.62		11:06		↓	↓
26	-8	W	—	—	5.61		↓		↓	↓
27	-8	M	—	—	5.03		11:07		↓	↓
28	FA33790-1	W ($NaHSO_4$)	31.66	36.39	4.73				PT	IN, preserved
29	-1	W ↓	31.70	36.48	4.78		↓		↓	↓
30	-1	M	29.49	34.44	4.95		↓		↓	↓
31	-1	M	29.71	34.10	4.39		↓		↓	↓
B2132	-1	M	29.56	34.24	4.68	↓	11:23	↓	↓	↓

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B 2156	FA33823-1	W	30.96	38.13	7.17	05/11/16	10:42	DKM	PT	IN
57	-1	M	29.82	36.46	6.64					
58	-1	M	29.81	36.38	6.57					
59	-2	W	31.03	37.48	6.45					
60	-2	W	30.68	37.02	6.34					
61	-2	M	29.79	35.61	5.82					
62	-2	M	29.79	36.00	6.21					
63	-3	W	31.19	38.20	7.01					
64	-3	W	31.34	38.81	7.47					
65	-3	M	29.17	36.54	7.37					
66	-3	M	29.71	37.24	7.53					
67	-4	W	31.09	36.66	5.57					
68	-4	W	31.11	36.76	5.65					
69	-4	M	29.80	35.24	5.44				PT	
70	-4	M	29.70	34.97	5.27		10:57		~~5030A~~	PT, IN
71	FA33834-3	W (AC2481)	—	—	5.39		11:08		~~5030A~~	IN (FS) EN
72	FA33834-3	W	—	—	5.38		11:09		EN	Unlocked
73	-3	M (AC2480)	—	—	5.62		11:11			
74	FA33835-1	W	31.14	39.25	8.11	05/11/16	11:34	DKM	PT	IN
75	-1	W	31.23	38.82	7.59					
76	-1	M	29.64	37.25	7.61					
77	-1	M	29.68	37.53	7.85		11:36			
B2178	FA33839-1	W (NaHSO4)	31.58	35.55	3.97	05/11/16	12:18	DKM	PT	IN

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES SE

DATE:	5-11-16
COLUMN TYPE:	RTX VM 5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA9-F
PURGE PRESSURE:	20
ANALYST:	S

MS VOA9-F ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	0509160829-F
CALIB. DATE:	05-09-16
EM VOLTAGE:	1871
BFB RESPONSE:	1626788
RUN ID:	VF 2651

VF2652

STANDARDS

A	BFB:	BFB: V20120
	ICAL/CCV:	ICAL/CCV: V20178,V20159,V20151, V20147,V20145,V20143
B	ISTD/SURR:	ISTD/SURR: V20161
	ICV/QC:	ICV/QC: V20179,V20160,V20152, V20148,V20146,V20144
	S.D.B = 250 ppm	
	METHANOL LOT #:	157266

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
	F 0017270	BFB	—	—	—	—	5	—		—	Ave Passed
	F 71	CC2649-4	—	—	—	—	6	—	104 sp	—	1ml STD/5ml
	F 72	BS	—	—	—	—	7	—	104 sp	—	1ml STD/5ml
	F 73	MB	—	—	—	100	8	—	103 mp	—	
630	F 74	FA33764-18,50X	B2007	S	4.53	10	9	5030A N	90ml MeOH Bottle 103 sp	EC	~~Stop~~ mp 5-1-16
643	F 75	FA33764-24,50X	B2025	S	5.58	10	10	↓	31 sp, 82 mp, 440 sp	RR	500X
	F 76	-38	AA660	S	5.11	—	11	5030A 00 H		—	
	F 77	-39	AA663	S	5.41	—	12			—	
	F 78	-40	AA666	S	4.83	—	13			—	
	F 79	-41	AA668	S	5.75	—	14			—	
	F 80	-42,50X	AA673	S	5.04	10	15	↓		RR	500X
	F 81	-24,500X	B2025	S	5.58	10	16	5030A N		EC	90ml MeOH Bottle
	F 82	-43,TB	B2081	S	5.00	—	17	PT		—	NOT LOGGED
	F 83	-44,TB	B2084	S	5.00	—	18	PT		—	" " "
835	F 84	FA33788-3	B2119	S	5.21	—	19	EN	VF2652 (8260C)	RR	Acetone 1X
	F 85	-7	B2122	S	5.78	—	20	EN		RR	1X
	F 86	-8	B2125	S	5.62	—	21	EN		RR	1X, 50X
	F 87	-3MS	B2113	S	5.09	—	22	EN	104 sp	—	1ml STD Bottle
	F 88	-3MSD	B2120	S	5.02	—	23	EN	104 sp	—	" " "
	F 89	FA33834-3	B2172	S	5.38	—	24	EN	VF2652	—	
843	F 90	FA3376-42,50X	AA673	S	5.04	10	25	5030A 00 H	VF2651	—	90ml MeOH Bottle
	F 91	-3MS	—	S	4.54	—	26	—	104 sp	—	1ml STD Bottle
	F 92	-3MSD	—	S	4.55	—	27	—		—	" " "
	F 93	FA33816-1	AA675	S	5.15	—	28	PT		—	
	F 94	-2	AA679	S	4.84	—	29	PT		—	
	F 95	-3	AA682	S	4.79	—	30	PT		—	
	F 96	-4	AA686	S	4.98	—	31	PT		—	

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature:

msvoa9_f_log.xls NF 07/11

ACCUTEST LABORATORIES SE

DATE:	5-11-16
COLUMN TYPE:	RTX VM 5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA9-F
PURGE PRESSURE:	20
ANALYST:	

MS VOA9-F ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	050916A009-F
CALIB. DATE:	05-09-16
EM VOLTAGE:	1871
BFB RESPONSE:	1626788
RUN ID:	VF2651,VF2652

STANDARDS

BFB:	.BFB: V20120
ICAL/CCV:	.ICAL/CCV: V20178,V20159,V20151, .V20147,V20145,V20143
ISTD/SURR:	.ISTD/SURR: V20161
ICV/QC:	.ICV/QC: V20179,V20160,V20152, .V20148,V20146,V20144
STD B = 250 ppm = 75 ug/ml/24 ml	
METHANOL LOT #:	157266

A B

DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS STD A = 250 ppm = 60 ug/ml/24 ml
F 0057297	ECE2649-4	—	—	—	—	32	—	104 SP	—	1ml STD A/5ml
F 98	Condition	—	—	—	—	1	—		—	See VF2653
F 99		—	—	—	—	2	—		—	
F 300		—	—	—	—	3	—		—	
F 01		—	—	—	—	4	—		—	
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										
F										

5-12-16

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature:

msvoa9_f_log.xls NF 07/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1995	FA33764-14	M (AC2456)	—	—	4.76	05/07/16	13:14	DCM	5030A	IN Bot#1
96	-15	W (AC2481)	—	—	4.70	↓	13:18	↓	↓	↓
97	15	W ↓	—	—	4.83	↓	↓	↓	↓	↓
98	-15	M (AC2456)	—	—	5.38	↓	↓	↓	↓	↓
99	-16	W (AC2481)	—	—	5.08	↓	13:23	↓	↓	↓
B2000	-16	W ↓	—	—	5.79	↓	↓	↓	↓	↓
01	-16	M (AC2456)	—	—	4.54	↓	↓	↓	↓	↓
02	-17	W (AC2481)	—	—	4.50	↓	13:27	↓	↓	↓
03	-17	W ↓	—	—	4.80	↓	↓	↓	↓	↓
04	-17	M (AC2456)	—	—	4.84	↓	↓	↓	↓	↓
05	~~-18~~ 618	W (AC2481)	—	—	4.98	↓	13:31	↓	↓	↓
06	-18	W ↓	—	—	4.56	↓	↓	↓	↓	↓
07	-18	M (AC2456)	—	—	4.53	↓	↓	↓	↓	↓
08	-19	W (AC2481)	—	—	5.35	↓	13:37	↓	↓	↓
09	-19	W ↓	—	—	5.60	↓	↓	↓	↓	↓
10	-19	M (AC2456)	—	—	4.86	↓	↓	↓	↓	↓
11	-20	W (AC2481)	—	—	4.87	↓	13:41	↓	↓	↓
12	-20	W ↓	—	—	5.16	↓	↓	↓	↓	↓
13	-20	M (AC2456)	—	—	5.39	↓	↓	↓	↓	↓
14	-21	W (AC2481)	—	—	5.40	↓	13:45	↓	↓	50
15	-21	W ↓	—	—	5.10	↓	↓	↓	↓	↓
16	-21	M (AC2456)	—	—	5.25	↓	↓	↓	↓	↓
B2017	-22	W (AC2481)	—	—	4.66	↓	13:48	↓	↓	↓ 50 ↓

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type	Comments
B2018	FA33764-22	W (AC2481)	—	—	6.07	05/07/16	13:50	JCM	~~PT~~	IN B0481
19	-22	M (AC2456)	—	—	4.91	↓	↓	↓	5030A	↓
20	-23	W (AC2481)	—	—	4.88	↓	13:53	↓	↓	↓
21	-23	W ↓	—	—	5.99	↓	↓	↓	↓	↓
22	-23	M (AC2480)	—	—	4.65	↓	↓	↓	↓	↓
23	-24	W (AC2481)	—	—	4.96	↓	13:57	↓	↓	SO
24	-24	W ↓	—	—	4.88	↓	↓	↓	↓	↓
25	-24	M (AC2480)	—	—	5.58	↓	↓	↓	↓	↓
26	-25	W (AC2481)	—	—	5.15	05/07/16	14:20	JCM	5030A	OOH B0481
27	-25	W ↓	—	—	4.74	↓	↓	↓	↓	↓
28	-25	M (AC2456)	—	—	4.99	↓	↓	↓	↓	↓
29	-26	W (AC2481)	—	—	4.76	↓	14:25	↓	↓	↓
30	-26	W ↓	—	—	4.92	↓	↓	↓	↓	↓
31	-26	M (AC2456)	—	—	6.05	↓	↓	↓	↓	↓
32	-27	W (AC2481)	—	—	5.31	↓	14:27	↓	↓	↓
33	-27	W (AC2481)	—	—	4.53	↓	↓	↓	↓	↓
34	-27	M (AC2456)	—	—	5.32	↓	↓	↓	↓	↓
35	-28	W (AC2481)	—	—	5.62	↓	14:31	↓	↓	↓
36	-28	W ↓	—	—	4.84	↓	↓	↓	↓	↓
37	-28	M (AC2456)	—	—	4.65	↓	↓	↓	↓	↓
38	-29	W (AC2481)	—	—	5.70	↓	14:33	↓	↓	↓
39	-29	W ↓	—	—	4.71	↓	↓	↓	↓	↓
B2040	-29	M (AC2456)	—	—	4.80	↓	14:36	↓	↓	↓

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 1

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
AA643	FA33768-1	M	29.54	34.71	5.17	05-07-16	1321	Gy	PT	IN
44	FA33764-35	W (AC2481)	NA	NA	5.07		1423		5030A	~~IN~~ OOH Bot #
45	-35	W			3.85					
46	-35	M (AC2480)			4.30					
47	-36	W			5.66		1425			~~IN~~
48	-36	W			4.79					
49	-36	M			5.66					
50	-34	W			5.49		1428			~~IN~~
51	-34	W			4.62					
52	-34	M			4.89					
53	-33	W			5.83		1430			~~IN~~
54	-33	W			4.53					
55	-33	M			4.74					
56	-37	W			5.98		1432			OOH
57	-37	W			5.35					
58	-37	M			6.22					
59	-38	W			4.47		1433			OOH
60	-38	W			5.11					
61	-38	M			5.49					
62	-39	W			4.90		1435			OOH
63	-39	W			5.41					
64	-39	M			5.67					
65	-40	W			5.07		1436			OOH

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 1.xls NF rev 08/11

Instrument Run Log VF2652 page 5 of 9

SGS ACCUTEST FA33788

494 of 505

7.7.4 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 1

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
~~AA7666~~	FA33764-40	W (AC2481)	—	—	4.83	05-07-16	1437		5030A	OOH Bot#1
67	-40	M (AC2480)	—	—	4.92		1438			
68	-41	W	NA	NA	5.75		1445			OOH
69	-41 ~~-42~~	~~M~~ W			~~4.46~~ 5.46					
70	-41	M			5.17					
71	-42	W			4.62		1447			
72	-42	W			4.59					
73	-42	M			5.04		1448			
74	FA33816-1	W	30.99	35.97	4.98	05/10/16	1615	CG	PT	IN
75	-1	W	30.98	36.13	5.15					
76	-1	M	29.49	34.34	4.85					
77	-1	M	29.84	34.66	4.82					
78	-2	W	30.99	35.85	4.86					
79	-2	W	30.92	35.76	4.84					
80	-2	M	29.88	34.51	4.63					
81	-2	M	29.73	34.49	4.76					
82	-3	W	31.20	35.99	4.79					
83	-3	W	31.05	35.54	4.49					
84	-3	M	29.89	34.43	4.54					
85	-3	M	30.02	34.35	4.33					
86	-4	W	31.07	36.05	4.98					
87	-4	W	31.06	35.97	4.91					
88	-4	M	29.75	34.57	4.82		1625			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 1.xls NF rev 08/11

Instrument Run Log VF2652 page 6 of 9

SGS ACCUTEST FA33788

495 of 505

7.7.4 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2064	FA33764-37	~~W~~ M (AC2456)				05/07/16			5030A	OOH Bot#1
65	-38	W (AC2481)								
66	-38	W								
67	-38	M (AC2456)								
68	-39	W (AC2481)								
69	-39	W								
70	-39	M (AC2456)								
71	-40	W (AC2481)								
72	-40	W (AC2481)								
73	-40	M (AC2456)								
74	-41	W (AC2481)								
75	-41	W								
76	-41	M (AC2456)								
77	-42	W (AC2481)								
78	-42	W								
79	-42	M (AC2456)								
80	FA33764-43	W	30.91	30.88	-0.03	05/07/16	14:48	JDM	PT	IN TB
81	-43	W	31.04	31.03	-0.01					
82	-43	M	29.60	29.54	-0.06					
83	-44	W	30.98	30.97	-0.01					
84	-44	W	31.04	31.01	-0.03					
85	-44	M	29.87	29.68	-0.19		14:56			
B2086	FA 33780-1	W	30.88	35.88	5.00	05/10/16	8:42	CG	PT	IN

DLM 05/07/16

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2110	FA33778-11	W	30.89	36.88	5.99	05/10/16	9:05	CG	PT	IN
11	-11	W	30.75	37.20	6.45		↓		↓	↓
12	-11	M	29.83	36.21	6.38		9:06		↓	↓
13	FA33788-3	W (AC2481)	—	—	5.09		10:53		EN	IN, FS, P
14	-3	W ↓	—	—	4.73		↓		↓	↓
15	-3	M (AC2480)	—	—	4.76		↓		↓	↓
16	-3	W	—	—	5.45		10:57		↓	↓
17	-3	W	—	—	5.38		↓		↓	↓
18	-3	M	—	—	5.15		↓		↓	↓
19	-3	W	—	—	5.21		11:00		↓	↓
20	-3	W	—	—	5.02		↓		↓	↓
21	-3	M	—	—	4.99		↓		↓	↓
22	-7	W	—	—	5.78		11:03		↓	↓
23	-7	W	—	—	5.92		↓		↓	↓
24	-7	M	—	—	6.18		↓		↓	↓
25	-8	W	—	—	5.62		11:06		↓	↓
26	-8	W	—	—	5.61		↓		↓	↓
27	-8	M	—	—	5.03		11:07		↓	↓
28	FA33790-1	W ($NaHSO_4$)	31.66	36.39	4.73				PT	IN, preserved
29	-1	W ↓	31.70	36.48	4.78		↓		↓	↓
30	-1	M	29.49	34.44	4.95		↓		↓	↓
31	-1	M	29.71	34.10	4.39		↓		↓	↓
B2132	-1	M	29.56	34.24	4.68	↓	11:23	↓	↓	↓

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B 2156	FA33823-1	W	30.96	38.13	7.17	05/11/16	10:42	DKM	PT	IN
57	-1	M	29.82	36.46	6.64					
58	-1	M	29.81	36.38	6.57					
59	-2	W	31.03	37.48	6.45					
60	-2	W	30.68	37.02	6.34					
61	-2	M	29.79	35.61	5.82					
62	-2	M	29.79	36.00	6.21					
63	-3	W	31.19	38.20	7.01					
64	-3	W	31.34	38.81	7.47					
65	-3	M	29.17	36.54	7.37					
66	-3	M	29.71	37.24	7.53					
67	-4	W	31.09	36.66	5.57					
68	-4	W	31.11	36.76	5.65					
69	-4	M	29.80	35.24	5.44				PT	
70	-4	M	29.70	34.97	5.27		10:57		~~5030A~~	PT, IN
71	FA33834-3	W (AC2481)	—	—	5.39		11:08		~~5030A~~	IN (FS) EX
72	FA33834-3	W	—	—	5.38		11:09		EN	Unlocked
73	-3	M (AC2480)	—	—	5.62		11:11			
74	FA33835-1	W	31.14	39.25	8.11	05/11/16	11:34	DKM	PT	IN
75	-1	W	31.23	38.82	7.59					
76	-1	M	29.64	37.25	7.61					
77	-1	M	29.68	37.53	7.85		11:36			
B2178	FA33839-1	W (NaHSO4)	31.58	35.55	3.97	05/11/16	12:18	DKM	PT	IN

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES SE

DATE:	03-15-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10.6 psi
ANALYST:	DP

1-12 pH LOT 200814
0-3 pH LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ031516.m
CALIB. DATE:	03-15-16
EM VOLTAGE:	1553
BFB RESPONSE:	3012045
RUN ID:	VJ~~5237~~ 5237 DP 03-16-16

STANDARDS

BFB:	V19931 V19964 (New gases) V19953 (Acro)
ICAL/CCV:	V19947 V19895 V19919 V19932 V19955 V19909 V19928 V19929
ISTD/SURR:	V19931
ICV/QC:	V19967 V19924 V19956 V19900
Purge Volume	V19916 V19960 V19853 V19869

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	Cl ?	RR	COMMENTS
J0975140	BLK	N/A	H2O	1	8260		N/A	N/A		
J 41	BLK			1						
J 42	BLK			1						20ul → 50ul Naph ↑
J 43	CC5236-5 A			1						↓ ↓
J 44	-5			1						
J 45	BLK New trap			1						
J 46	BLK			1						
J 47	BLK			1						
J 48	BLK			2						
J 49	BLK / BFB			3						
J 50	ICS237-1			4		PII(6) SP(8)				0.5ul → 50ul
J 51	-2			5		SP(8) OP(37) PII(107)				2.5ul → 50ul
J 52	-3			6		SP(8) OP(37) PII(107)				5ul → 50ul
J 53	-4			7		SP(8) OP(37) PII(107)				12.5ul → 50ul
J 54	-5			8		SP(8) OP(37) PII(107)				20ul → 50ul
J 55	-6			9		SP(8) OP(37) PII(107)				35ul → 50ul
J 56	-7			10		SP(8) OP(37) PII(107)				50ul → 50ul
J 57	BLK			11						
J 58	ICV5237-5	↓	↓	12	↓		↓	↓		25ul → 50ul
J 59	ICV5237-5			13						
J										
J										
J						03-16-16 DP				
J										
J										
J										
J										

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	05-10-16
COLUMN TYPE:	Rtx-Vms
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4psi
ANALYST:	DP / SP

1-12 pH lot 200814
0-3 pH lot 204413

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ031516.m
CALIB. DATE:	03-15-16
EM VOLTAGE:	1553V
BFB RESPONSE:	2257416
RUN ID:	VJ5291 / 5292

STANDARDS

BFB:	V20180
ICAL/CCV:	V20171 V20131 V20141 V20172 V20164 V20173 V20119 V20156
ISTD/SURR:	V20180
ICV/QC:	V20175 V20168 V20182 V20176
Purge Volumes	V20167 V20165 V20107 V20121

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976381	BLK	N/A	420	1	8260		N/A	N/A		—
J 82	BFB			1						Auto Passed
J 83	CCS237-5			1		SP(8) OP(37) PII(107)				20ul→50ml
J 84	BS			1		SP(8) OP(37) PII(107)				12.5ul→40ml
J 85	MB			2						ND
J 86	FA30519-1B 0.5ul	NA		3			NA	NA		0.5ul→100ml ✓
J 87	-2B ~~2ul~~ 1ul			4		SP(8) OP(37)				1ul→100ml ✓
J 88	-3B 2ul			5		SP(8) PII(28) PII(107) OP(37)				2ul→100ml
J 89	FA33722-3R MA	2		6			1	N		ND
J 90	-6R MA	2		7			1			✓
J 91	FA33765-1	2		8			1			✓
J 92	-2	2		9		OP(32)	1		5x	Naph ↑
J 93	-3,5x	2		10			6			✓
J 94	FA33788-1 MA	1		11			1			
J 95	-2 MA	1		12			1			
J 96	-4 MA	1		13			1			
J 97	-5 MA	1		14			1			
J 98	-6 MA	1		15			1			
J 99	-9 MA	1		16			1			
J 400	FA33688-1	2		17			1			
J 01	-2	2		18			1			
J 02	-3	2		19			1			
J 03	-4	2		20			6			
J 04	-5	2		21		SP 05/11/16	1			
J 05	FA33788-1MS MA	2		22		SP:8 OP:~~32~~ 37	1			12.5ul - 40ml
J 06	-1MSD MA	2		22		SP:8 OP:37 MP:107	1			
J 07	FA33688-1 MS	3		23		SP:8 OP:37	1			
08	-1MSD	3		23		SP:8 OP:37	1	N		
09	CCS237-5	NA		24						20ul - 50ml

SP 11/16

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP / SP

msvoa6_l_log.xls NF 06/10 SP:8 OP:37

ACCUTEST LABORATORIES SE

DATE:	05/10/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4 PSI
ANALYST:	STUTZP.

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS7 031516.M
CALIB. DATE:	03/15/16
EM VOLTAGE:	1553V
BFB RESPONSE:	225 7416
RUN ID:	VJ 5291/5292

STANDARDS

BFB:	V20180
ICAL/CCV:	V20171, V20013, V20141, V20112, V20164, V20123, V20189, V20156
ISTD/SURR:	V20180
ICV/QC:	V20175, V20168, V20182, V20176, V20167
Purge Volume	5ml V20165, V20107, V20121

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 10	FA33722-3, HS CF	1	W	25	8260		1	N	-	
J 11	FA33722-6, HS CF	1	↓	26	↓		1	N	-	
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J						SP 05/10/16				
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [signature]

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	05-10-16
COLUMN TYPE:	Rtx-Vms
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4psi
ANALYST:	DP / SP

1-12 pH lot 200814
0-3 pH lot 204413

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ031516.m
CALIB. DATE:	03-15-16
EM VOLTAGE:	1553V
BFB RESPONSE:	2257416
RUN ID:	VJ5291 / 5292

STANDARDS

BFB:	V20180
ICAL/CCV:	V20171 V20131 V20141 V20172
	V20164 V20173 V20119 V20156
ISTD/SURR:	V20180
ICV/QC:	V20175 V20168 V20182 V20176
Purge Volumes 5ml	V20167 V20165 V20107 V20121

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976381	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J 82	BFB			1						Auto Passed
J 83	CCS237-5			1		SP(8) OP(37) PII(107)				20ul→50ml
J 84	BS			1		SP(8) OP(37) PII(107)				12.5ul→40ml
J 85	MB			2						ND
J 86	FA30519-1B 0.5ul	NA		3			NA	NA		0.5ul→100ml ✓
J 87	-2B OP-5-16 1ul			4		SP(8) OP(37)				1ul→100ml ✓
J 88	-3B 2ul			5		SP(8) PII(28) PII(107) OP(37)				2ul→100ml
SP 11/16 J 89	FA33722-3R MA	1		6			1	N		ND
J 90	-6R MA	2		7			1			✓
J 91	FA33765-1	2		8			1			✓
J 92	-2	2		9		OP(32)	1		5x	Naph ↑
J 93	-3,5x	2		10			6			✓
J 94	FA33788-1 MA	1		11			1			
J 95	-2 MA	1		12			1			
J 96	-4 MA	1		13			1			
J 97	-5 MA	1		14			1			
J 98	-6 MA	1		15			1			
J 99	-9 MA	1		16			1			
J 400	FA33688-1	2		17			1			
J 01	-2	2		18			1			
J 02	-3	2		19			1			
J 03	-4	2		20			6			
J 04	-5	2		21		SP 05/11/16	1			
J 05	FA33788-1MS MA	2		22		SP:8 OP:~~32~~ 37	1			12.5ul - 40ml
J 06	-1MSD MA	2		22		SP:8 OP:37 MP:107	1			
J 07	FA33688-1 MS	3		23		SP:8 OP:37	1			
08	-1MSD	3		23		SP:8 OP:37	1	N		
09	Ecc S237-5	NA		24						20ul - 50ml

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

msvoa6_j_log.xls NF 06/10 SP:8 OP:37

Analyst's Signature: DP / SP

ACCUTEST LABORATORIES SE

DATE:	05/10/16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4 PSI
ANALYST:	STUTSP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS7 031516.M
CALIB. DATE:	03/15/16
EM VOLTAGE:	1553V
BFB RESPONSE:	225 7416
RUN ID:	VJ 5291/5292

STANDARDS

BFB:	V20180
ICAL/CCV:	V20171, V20173, V20141, V20172, V20164, V20173, V20189, V20156
ISTD/SURR:	V20180
ICV/QC:	V20175, V20168, V20182, V20176, V20167
Purge Volume	5ml V20165, V20107, V20121

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 10	FA33722-3, HS, CF	1	W	25	8260		1	N	-	
J 17	FA33722-6, HS, CF	1	↓	26	↓		1	N	-	
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J						SP 05/10/16				
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [signature]

msvoa6_j_log.xls NF 06/10

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA33788
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: FA33788-3 **Analyzed:** 11-MAY-16 by LJ **Method:** SM19 2540G
ClientID: RA-6 (6-7)

Wet Weight (Total)	9.71	g
Tare Weight	1.04	g
Dry Weight (Total)	7.32	g
Solids, Percent	72.4	%

Sample: FA33788-7 **Analyzed:** 18-MAY-16 by JL **Method:** SM19 2540G
ClientID: RA-5 (5.5-6.5)

Wet Weight (Total)	14.8	g
Tare Weight	1.1	g
Dry Weight (Total)	12.3	g
Solids, Percent	81.8	%

Sample: FA33788-8 **Analyzed:** 14-MAY-16 by JK **Method:** SM19 2540G
ClientID: RA-5 (9-10)

Wet Weight (Total)	8.99	g
Tare Weight	1.05	g
Dry Weight (Total)	7.51	g
Solids, Percent	81.4	%