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Automated Report

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, Humacao, PR

SM04.00.06

SGS Accutest Job Number: FA34748

Sampling Dates: 06/03/16 - 06/11/16

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: **300**

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

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.

Client Service contact: Heather Wandrey 407-425-6700

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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: FA34748

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA34748-1	06/03/16	12:34	NR	06/13/16	AQ	Ground Water	MW-14
FA34748-2	06/03/16	12:50	NR	06/13/16	AQ	Ground Water	MW-14D
FA34748-3	06/03/16	17:00	NR	06/13/16	AQ	Ground Water	MW-15
FA34748-4	06/06/16	12:49	NR	06/13/16	AQ	Ground Water	UP-2
FA34748-5	06/06/16	15:42	NR	06/13/16	AQ	Ground Water	UP-1
FA34748-6	06/06/16	17:20	NR	06/13/16	AQ	Ground Water	A-1R4
FA34748-7	06/06/16	18:47	NR	06/13/16	AQ	Ground Water	A-2R2
FA34748-8	06/07/16	12:40	NR	06/13/16	AQ	Ground Water	S-30
FA34748-9	06/07/16	14:12	NR	06/13/16	AQ	Ground Water	S-31R2
FA34748-10	06/07/16	10:19	NR	06/13/16	AQ	Equipment Blank	EB-060716
FA34748-11	06/11/16	06:00	NR	06/13/16	AQ	Trip Blank Water	TB-060716
FA34748-12	06/07/16	15:51	NR	06/13/16	AQ	Ground Water	S-29R

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job No:** FA34748

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 6/17/2016 2:39:06 PM

11 Sample(s), 1 Trip Blank(s) were collected on/between 06/03/2016 and 06/11/2016 and were received at SGS Accutest Southeast (SASE) on 06/13/2016 properly preserved, at 3 Deg. C and intact. These Samples received an SASE job number of FA34748. 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:** VJ5336

All samples were analyzed within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) FA34748-1MS, FA34748-1MSD were used as the QC samples indicated.
Matrix Spike Recovery(s) for Bromoform, Dibromochloromethane are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Matrix Spike Duplicate Recovery(s) for cis-1,3-Dichloropropene, Dibromochloromethane are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Matrix Spike/Matrix Spike Duplicate Recovery(s) for Tert-Butyl Alcohol are outside control limits. Outside control limits due to high level in sample relative to spike amount. % RPD was within control limits in MS/MSD.

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: June 17, 2016

_____
Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA34748-1MS	MSVOA	J0977243.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
FA34748-1MSD	MSVOA	J0977244.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
FA34748-8	MSVOA	J0977230.D	Tert-Butyl Alcohol
VJ5333-IC5333	MSVOA	J0977157.D	1,4-Dichlorobenzene, 2,2-Dichloropropane, Acetone, Dichlorodifluoromethane, Hexane, Isobutyl Alcohol, Methyl Bromide, Trichlorofluoromethane
VJ5333-IC5333	MSVOA	J0977158.D	Ethyl Alcohol, Trichlorofluoromethane
VJ5333-IC5333	MSVOA	J0977159.D	Acrylonitrile, Ethyl Alcohol, Trichlorofluoromethane
VJ5333-IC5333	MSVOA	J0977160.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5333-IC5333	MSVOA	J0977162.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5333-IC5333	MSVOA	J0977163.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5333-ICC5333	MSVOA	J0977161.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5333-ICV5333	MSVOA	J0977165.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5335-CC5333	MSVOA	J0977220.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5336-BS	MSVOA	J0977221.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane

13 Manual Integrations were found for FA34748

Summary of Hits

Job Number: FA34748
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 06/03/16 thru 06/11/16

3

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA34748-1	**MW-14**					
Cyclohexane		0.89 J	1.0	0.26	ug/l	SW846 8260C
Isopropylbenzene		31.8	1.0	0.33	ug/l	SW846 8260C
Methylcyclohexane		0.62 J	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		29.2	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		715	20	9.1	ug/l	SW846 8260C
Tetrahydrofuran		5.6	5.0	1.4	ug/l	SW846 8260C
FA34748-2	**MW-14D**					
Cyclohexane		1.1	1.0	0.26	ug/l	SW846 8260C
Isopropylbenzene		29.5	1.0	0.33	ug/l	SW846 8260C
Methylcyclohexane		0.46 J	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		30.5	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		735	20	9.1	ug/l	SW846 8260C
Tetrahydrofuran		5.5	5.0	1.4	ug/l	SW846 8260C
FA34748-3	**MW-15**					
No hits reported in this sample.						
FA34748-4	**UP-2**					
Chlorobenzene		0.48 J	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		0.47 J	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		3.2	1.0	0.20	ug/l	SW846 8260C
FA34748-5	**UP-1**					
Isopropylbenzene		48.5	1.0	0.33	ug/l	SW846 8260C
FA34748-6	**A-1R4**					
Acetone		84.9 J	130	50	ug/l	SW846 8260C
Benzene		7.1	5.0	1.0	ug/l	SW846 8260C
Ethylbenzene		164	5.0	1.3	ug/l	SW846 8260C
Isopropylbenzene		41.5	5.0	1.6	ug/l	SW846 8260C
4-Methyl-2-pentanone (MIBK)		33.8	25	7.0	ug/l	SW846 8260C
Methyl Tert Butyl Ether		166	5.0	1.0	ug/l	SW846 8260C
Tert-Butyl Alcohol		736	100	45	ug/l	SW846 8260C
Toluene		1.8 J	5.0	1.0	ug/l	SW846 8260C
1,2,4-Trimethylbenzene		1.6 J	5.0	1.0	ug/l	SW846 8260C
m,p-Xylene		593	10	1.5	ug/l	SW846 8260C
o-Xylene		11.9	5.0	1.3	ug/l	SW846 8260C

Summary of Hits

Job Number: FA34748
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 06/03/16 thru 06/11/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA34748-7	**A-2R2**					
Cyclohexane		1.0	1.0	0.26	ug/l	SW846 8260C
Ethylbenzene		1.3	1.0	0.25	ug/l	SW846 8260C
Isopropylbenzene		2.7	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		13.2	1.0	0.20	ug/l	SW846 8260C
m,p-Xylene		1.5 J	2.0	0.30	ug/l	SW846 8260C
FA34748-8	**S-30**					
Benzene		0.41 J	1.0	0.20	ug/l	SW846 8260C
Chlorobenzene		0.37 J	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		0.74 J	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		3.8	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		40.1	20	9.1	ug/l	SW846 8260C
FA34748-9	**S-31R2**					
Acetone		261 J	500	200	ug/l	SW846 8260C
Ethylbenzene		1360	20	5.0	ug/l	SW846 8260C
Isopropylbenzene		29.0	20	6.6	ug/l	SW846 8260C
Methyl Tert Butyl Ether		8.2 J	20	4.0	ug/l	SW846 8260C
FA34748-10	**EB-060716**					
No hits reported in this sample.						
FA34748-11	**TB-060716**					
No hits reported in this sample.						
FA34748-12	**S-29R**					
Benzene		0.25 J	1.0	0.20	ug/l	SW846 8260C
Chlorobenzene		0.37 J	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		22.4	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.66 J	1.0	0.20	ug/l	SW846 8260C

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	MW-14		
Lab Sample ID:	FA34748-1	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	J0977223.D	1	06/16/16	DP	n/a	n/a	VJ5336
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	0.89	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	31.8	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:	MW-14		
Lab Sample ID:	FA34748-1	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	0.62	1.0	0.23	ug/l	J
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	29.2	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	715	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	5.6	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	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	101%		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:	MW-14D		
Lab Sample ID:	FA34748-2	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	J0977224.D	1	06/16/16	DP	n/a	n/a	VJ5336
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	1.1	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	29.5	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:	MW-14D		
Lab Sample ID:	FA34748-2	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	0.46	1.0	0.23	ug/l	J
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	30.5	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	735	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	5.5	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	98%		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:	MW-15		
Lab Sample ID:	FA34748-3	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	J0977225.D	1	06/16/16	DP	n/a	n/a	VJ5336
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:	MW-15		
Lab Sample ID:	FA34748-3	**Date Sampled:**	06/03/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		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:	UP-2		
Lab Sample ID:	FA34748-4	**Date Sampled:**	06/06/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	J0977226.D	1	06/16/16	DP	n/a	n/a	VJ5336
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	0.48	1.0	0.20	ug/l	J
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	0.47	1.0	0.33	ug/l	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:	UP-2		
Lab Sample ID:	FA34748-4	**Date Sampled:**	06/06/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	3.2	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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	100%		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:	UP-1		
Lab Sample ID:	FA34748-5	**Date Sampled:**	06/06/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	J0977227.D	1	06/16/16	DP	n/a	n/a	VJ5336
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	48.5	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:	UP-1		
Lab Sample ID:	FA34748-5	**Date Sampled:**	06/06/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	101%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	104%		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:	A-1R4		
Lab Sample ID:	FA34748-6	**Date Sampled:**	06/06/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	J0977228.D	5	06/16/16	DP	n/a	n/a	VJ5336
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	84.9	130	50	ug/l	J
71-43-2	Benzene	7.1	5.0	1.0	ug/l	
100-44-7	Benzyl Chloride	ND	10	2.2	ug/l	
74-97-5	Bromochloromethane	ND	5.0	2.1	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	1.2	ug/l	
75-25-2	Bromoform	ND	5.0	2.3	ug/l	
78-93-3	2-Butanone (MEK)	ND	25	13	ug/l	
75-15-0	Carbon Disulfide	ND	10	1.2	ug/l	
56-23-5	Carbon Tetrachloride	ND	5.0	1.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	1.0	ug/l	
75-00-3	Chloroethane	ND	10	3.1	ug/l	
67-66-3	Chloroform	ND	5.0	1.5	ug/l	
110-82-7	Cyclohexane	ND	5.0	1.3	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	1.3	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	25	4.1	ug/l	
106-93-4	1,2-Dibromoethane	ND	10	1.7	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	1.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	1.2	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	1.3	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	1.4	ug/l	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.1	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.6	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.7	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	1.7	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.2	ug/l	
100-41-4	Ethylbenzene	164	5.0	1.3	ug/l	
76-13-1	Freon 113	ND	5.0	1.6	ug/l	
591-78-6	2-Hexanone	ND	50	10	ug/l	
98-82-8	Isopropylbenzene	41.5	5.0	1.6	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:	A-1R4		
Lab Sample ID:	FA34748-6	**Date Sampled:**	06/06/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	5.0	1.4	ug/l	
79-20-9	Methyl Acetate	ND	100	25	ug/l	
74-83-9	Methyl Bromide	ND	10	2.5	ug/l	
74-87-3	Methyl Chloride	ND	10	2.5	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	1.2	ug/l	
75-09-2	Methylene Chloride	ND	25	10	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	33.8	25	7.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	166	5.0	1.0	ug/l	
100-42-5	Styrene	ND	5.0	1.2	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	100	30	ug/l	
75-65-0	Tert-Butyl Alcohol	736	100	45	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.6	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	1.5	ug/l	
109-99-9	Tetrahydrofuran	ND	25	7.1	ug/l	
108-88-3	Toluene	1.8	5.0	1.0	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	10	2.6	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	10	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.8	ug/l	
79-01-6	Trichloroethylene	ND	5.0	1.4	ug/l	
75-69-4	Trichlorofluoromethane	ND	10	2.5	ug/l	
95-63-6	1,2,4-Trimethylbenzene	1.6	5.0	1.0	ug/l	J
75-01-4	Vinyl Chloride	ND	5.0	1.6	ug/l	
	m,p-Xylene	593	10	1.5	ug/l	
95-47-6	o-Xylene	11.9	5.0	1.3	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	103%		79-125%
2037-26-5	Toluene-D8	97%		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:	A-2R2		
Lab Sample ID:	FA34748-7	**Date Sampled:**	06/06/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	J0977229.D	1	06/16/16	DP	n/a	n/a	VJ5336
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	1.0	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	1.3	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	2.7	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:	A-2R2		
Lab Sample ID:	FA34748-7	**Date Sampled:**	06/06/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	13.2	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	1.5	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	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		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:	S-30		
Lab Sample ID:	FA34748-8	**Date Sampled:**	06/07/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	J0977230.D	1	06/16/16	DP	n/a	n/a	VJ5336
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	0.41	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	0.37	1.0	0.20	ug/l	J
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	0.74	1.0	0.33	ug/l	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:	S-30		
Lab Sample ID:	FA34748-8	**Date Sampled:**	06/07/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	3.8	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	40.1	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	101%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	108%		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-31R2		
Lab Sample ID:	FA34748-9	**Date Sampled:**	06/07/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	J0977231.D	20	06/16/16	DP	n/a	n/a	VJ5336
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	261	500	200	ug/l	J
71-43-2	Benzene	ND	20	4.1	ug/l	
100-44-7	Benzyl Chloride	ND	40	8.7	ug/l	
74-97-5	Bromochloromethane	ND	20	8.5	ug/l	
75-27-4	Bromodichloromethane	ND	20	4.8	ug/l	
75-25-2	Bromoform	ND	20	9.3	ug/l	
78-93-3	2-Butanone (MEK)	ND	100	51	ug/l	
75-15-0	Carbon Disulfide	ND	40	4.6	ug/l	
56-23-5	Carbon Tetrachloride	ND	20	6.0	ug/l	
108-90-7	Chlorobenzene	ND	20	4.0	ug/l	
75-00-3	Chloroethane	ND	40	13	ug/l	
67-66-3	Chloroform	ND	20	6.0	ug/l	
110-82-7	Cyclohexane	ND	20	5.2	ug/l	
124-48-1	Dibromochloromethane	ND	20	5.2	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	100	16	ug/l	
106-93-4	1,2-Dibromoethane	ND	40	6.6	ug/l	
75-71-8	Dichlorodifluoromethane	ND	40	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	5.3	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	4.7	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	7.8	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	5.1	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	5.7	ug/l	
75-35-4	1,1-Dichloroethylene	ND	20	4.3	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	20	6.2	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	20	6.6	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	6.9	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	5.3	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	4.9	ug/l	
100-41-4	Ethylbenzene	1360	20	5.0	ug/l	
76-13-1	Freon 113	ND	20	6.5	ug/l	
591-78-6	2-Hexanone	ND	200	40	ug/l	
98-82-8	Isopropylbenzene	29.0	20	6.6	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-31R2		
Lab Sample ID:	FA34748-9	**Date Sampled:**	06/07/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	20	5.6	ug/l	
79-20-9	Methyl Acetate	ND	400	100	ug/l	
74-83-9	Methyl Bromide	ND	40	10	ug/l	
74-87-3	Methyl Chloride	ND	40	10	ug/l	
108-87-2	Methylcyclohexane	ND	20	4.7	ug/l	
75-09-2	Methylene Chloride	ND	100	40	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	100	28	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.2	20	4.0	ug/l	J
100-42-5	Styrene	ND	20	4.8	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	400	120	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	400	180	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	6.5	ug/l	
127-18-4	Tetrachloroethylene	ND	20	6.1	ug/l	
109-99-9	Tetrahydrofuran	ND	100	28	ug/l	
108-88-3	Toluene	ND	20	4.0	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	40	10	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	40	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	4.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	7.3	ug/l	
79-01-6	Trichloroethylene	ND	20	5.4	ug/l	
75-69-4	Trichlorofluoromethane	ND	40	10	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	20	4.0	ug/l	
75-01-4	Vinyl Chloride	ND	20	6.3	ug/l	
	m,p-Xylene	ND	40	6.0	ug/l	
95-47-6	o-Xylene	ND	20	5.3	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	103%		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:	EB-060716		
Lab Sample ID:	FA34748-10	**Date Sampled:**	06/07/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/13/16
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	J0977232.D	1	06/16/16	DP	n/a	n/a	VJ5336
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:	EB-060716		
Lab Sample ID:	FA34748-10	**Date Sampled:**	06/07/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/13/16
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	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	103%		79-125%
2037-26-5	Toluene-D8	100%		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:	TB-060716		
Lab Sample ID:	FA34748-11	**Date Sampled:**	06/11/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/13/16
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	J0977233.D	1	06/16/16	DP	n/a	n/a	VJ5336
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:	TB-060716		
Lab Sample ID:	FA34748-11	**Date Sampled:**	06/11/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/13/16
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	103%		85-112%
460-00-4	4-Bromofluorobenzene	104%		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-29R		
Lab Sample ID:	FA34748-12	**Date Sampled:**	06/07/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	J0977234.D	1	06/16/16	DP	n/a	n/a	VJ5336
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	0.25	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	0.37	1.0	0.20	ug/l	J
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	22.4	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:	S-29R		
Lab Sample ID:	FA34748-12	**Date Sampled:**	06/07/16
Matrix:	AQ - Ground Water	**Date Received:**	06/13/16
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	0.66	1.0	0.20	ug/l	J
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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	104%		79-125%
2037-26-5	Toluene-D8	102%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

FLA

CHAIN OF CUSTODY

FLA

Page 1 of 2

PN

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: ~~JC87709~~
Accutest Quote #: FA34748

Client Information

Name: Anderson Mulholland & Associates
Address: 2700 Westchester Avenue
City: Purchase State: NY Zip: 10577
Send Report to: Terry Taylor
Phone #: 914-251-0400

Facility Information

Project Name: Anderson Mulholland
Location:
Project/PO #: 2Q16 Ground Water Sampling
FAX #: 914-251-1286

Analytical Information

	Field ID / Point of Collection	Collection Date	Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	VOCs, 8260C FL	SVOC, 8270D	LMA, 8015B JS	Pesticides, 8081B	VMAVPH MA	BMAEPHR MA	1,4 Dioxane and naphthalene, Method 8270D SIM				
1	MW-14	6/3/16	1234	NMR	GW	13	X				X	X	X	X		X	X	X				
2	MW-14D	6/3/16	1250		GW	13	X				X	X	X	X		X	X	X			E57	
3	MW-15	6/3/16	1700		GW	13	X				X	X	X	X		X	X	X			E60	
4	UP-2	6/6/16	1249		GW	14	X				X	X	X	X	X	X	X	X			V313	
5	UP-1	6/6/16	1542		GW	14	X				X	X	X	X	X	X	X	X			V314	
6	A-1R4	6/6/16	1720		GW	14	X				X	X	X	X	X	X	X	X			V315	
7	A-2R2 *	6/6/16	1847		GW	15	X				X	X	X	X	X	X	X	X				
8	S-30	6/7/16	1240		GW	14	X				X	X	X	X	X	X	X	X				
9	S-31R2 *	6/7/16	1412		GW	14	X				X	X	X	X	X	X	X	X	INITIAL ASESSMENT			
10	EB-060716	6/7/16	1019		EB	14	X				X	X	X	X	X	X	X	X				
11	TB-060716	4/11/16	0600		TB	2	X					X							LABEL VERIFICATION			

Turnaround Information

- [X] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days EMERGENCY
- [ ] Other _____ (Days)

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Federal Express ID # 8098 6288 2950
Lab Trip Blank Date 4/11/16 Time 0600
For VOCs (8260C) add to report: Tetrahydrofuran, p-isopropyl toluene, 1-2-4 Trimethyl benzene, Benzyl choride and Tert amylchloride. For SVOCs (8270D) add to report: 1-methyl naphthalene

* VOA QC VIAL [illegible]

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 Nesta M. Rivera	06/07/16 1900	1 Fed EX	2 FX	6-8-16 950	2
3 [illegible]	6-9-16 1700	3 FED EX	4		4
5		5			

Seal # 352, 354, 356, 358, 360, 357 Preserved where applicable On Ice: 2.1, 2.6, 3.1, 1.7, 2.3, 2.0

CUSTODY SEAL NJ # 21

CHAIN OF CUSTODY

Page 2 of 2

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: ~~[illegible]~~
Accutest Quote #: FA34748

Client Information

Anderson Mulholland & Associates
Name: 2700 Westchester Avenue
Address: Purchase NY 10577
City / State / Zip
Send Report to: Terry Taylor
Phone #: 914-251-0400

Facility Information

Anderson Mulholland
Project Name:
Location:
Project/PO #: 2Q16 Ground Water Sampling
FAX #: 914-251-1286

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	VOCs, 8260C	SVOC, 8270D	LMA, 8015B	Pesticides, 8081B	VMA/VPH	BMA/EPHR	1,4 Dioxane and naphthalene, Method 8270D SIM				
14-S-29R	6/7/16	1551	NMR	GW	14	X				X	X	X	X	X	X	X	X				
-				GW		X				X	X	X	X		X	X	X				
-				GW		X				X	X	X	X		X	X	X				
-				GW		X				X	X	X	X		X	X	X				
-				GW		X				X	X	X	X		X	X	X				
-				GW		X				X	X	X	X		X	X	X				
-				GW		X				X	X	X	X		X	X	X				
-				GW		X				X	X	X	X		X	X	X				
-				GW		X				X	X	X	X		X	X	X				
-																					
-																					

Turnaround Information

- [X] 21 Day Standard — Approved By:
- [ ] 14 Day
- [ ] 7 Days EMERGENCY
- [ ] Other _____ (Days)

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [X] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Federal Express ID # 8098 6288 2950
Lab Trip Blank Date 6/11/16 Time 0600
For VOCs (8260C) add to report: Tetrahydrofuran, p-isopropyl toluene, 1-2-4 Trimethyl benzene, Benzyl choride and Tert amylchloride. For SVOCs (8270D) add to report: 1-methyl naphthalene

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]	06/07/16 1900	1 FED EX	2 FX	6-8-16 950	2 [signature]
3 AMP [signature]	6-9-16 1700	3 FED EX	4		4
5		5	Seal #	Preserved where applicat	On Ice:

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA34748 CLIENT: Anderson Mulholland PROJECT: Anderson Mulholland

DATE/TIME RECEIVED: 6/13/16 900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 5633 9349 2256

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
- [X] TRIP BLANK NOT PROVIDED
- [X] 6/16/16 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_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.0
- [ ] OBSERVED TEMPS: 3.0
- [ ] CORRECTED TEMPS: 3.0 (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 6/14/16 6/15/16 REVIEWER SIGNATURE/DATE 6/15/16

NF 11/15 RECEIPTLOG040416.xls

5.1 5

ORIGIN ID:ZRPA (732) 329-0200
SAMPLE MGT.
SGS ACCUTEST
2235 US HIGHWAY 130

DAYTON, NJ 08810
UNITED STATES US

SHIP DATE: 09JUN16
ACTWGT: 26.2 LB
CAD: 0743430/CAFE2912

BILL SENDER

TO SAMPLE MANAGEMENT
SGS ACCUTEST SOUTHEAST
4405 VINELAND ROAD
SUITE C-15
ORLANDO FL 32811
(407) 425-6700
REF: ANDERSON MULHOLLAND

6/13 @ 900

FedEx Express

TRK# 0201 5633 9349 2256

FRI - 10 JUN 10:30A
PRIORITY OVERNIGHT

XH TIXA

32811
FL-US MCO

Part # 166143-434 Rev 12/07

FA34748: Chain of Custody
Page 4 of 4

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: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5336-MB	J0977222.D	1	06/16/16	DP	n/a	n/a	VJ5336

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

FA34748-1, FA34748-2, FA34748-3, FA34748-4, FA34748-5, FA34748-6, FA34748-7, FA34748-8, FA34748-9, FA34748-10, FA34748-11, FA34748-12

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: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5336-MB	J0977222.D	1	06/16/16	DP	n/a	n/a	VJ5336

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

FA34748-1, FA34748-2, FA34748-3, FA34748-4, FA34748-5, FA34748-6, FA34748-7, FA34748-8, FA34748-9, FA34748-10, FA34748-11, FA34748-12

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	106%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

Blank Spike Summary

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5336-BS	J0977221.D	1	06/16/16	DP	n/a	n/a	VJ5336

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

FA34748-1, FA34748-2, FA34748-3, FA34748-4, FA34748-5, FA34748-6, FA34748-7, FA34748-8, FA34748-9, FA34748-10, FA34748-11, FA34748-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	130	104	50-147
71-43-2	Benzene	25	26.1	104	81-122
100-44-7	Benzyl Chloride	25	23.1	92	54-122
74-97-5	Bromochloromethane	25	27.3	109	76-123
75-27-4	Bromodichloromethane	25	25.5	102	79-123
75-25-2	Bromoform	25	25.4	102	66-123
78-93-3	2-Butanone (MEK)	125	115	92	56-143
75-15-0	Carbon Disulfide	25	28.2	113	66-148
56-23-5	Carbon Tetrachloride	25	29.6	118	76-136
108-90-7	Chlorobenzene	25	26.3	105	82-124
75-00-3	Chloroethane	25	28.4	114	62-144
67-66-3	Chloroform	25	27.6	110	80-124
110-82-7	Cyclohexane	25	28.4	114	73-138
124-48-1	Dibromochloromethane	25	26.1	104	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	22.8	91	64-123
106-93-4	1,2-Dibromoethane	25	26.2	105	75-120
75-71-8	Dichlorodifluoromethane	25	38.8	155	42-167
95-50-1	1,2-Dichlorobenzene	25	24.9	100	82-124
541-73-1	1,3-Dichlorobenzene	25	26.2	105	84-125
106-46-7	1,4-Dichlorobenzene	25	25.5	102	78-120
75-34-3	1,1-Dichloroethane	25	28.8	115	81-122
107-06-2	1,2-Dichloroethane	25	25.8	103	75-125
75-35-4	1,1-Dichloroethylene	25	29.8	119	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.5	102	78-120
156-60-5	trans-1,2-Dichloroethylene	25	31.0	124	76-127
78-87-5	1,2-Dichloropropane	25	25.0	100	76-124
10061-01-5	cis-1,3-Dichloropropene	25	25.0	100	75-118
10061-02-6	trans-1,3-Dichloropropene	25	28.0	112	80-120
100-41-4	Ethylbenzene	25	26.2	105	81-121
76-13-1	Freon 113	25	28.5	114	72-134
591-78-6	2-Hexanone	125	112	90	61-129
98-82-8	Isopropylbenzene	25	29.3	117	83-132
99-87-6	p-Isopropyltoluene	25	27.7	111	79-130
79-20-9	Methyl Acetate	125	126	101	65-126
74-83-9	Methyl Bromide	25	27.0	108	59-143
74-87-3	Methyl Chloride	25	29.8	119	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5336-BS	J0977221.D	1	06/16/16	DP	n/a	n/a	VJ5336

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

FA34748-1, FA34748-2, FA34748-3, FA34748-4, FA34748-5, FA34748-6, FA34748-7, FA34748-8, FA34748-9, FA34748-10, FA34748-11, FA34748-12

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	29.8	119	76-129
75-09-2	Methylene Chloride	25	29.8	119	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	114	91	66-122
1634-04-4	Methyl Tert Butyl Ether	25	25.8	103	72-117
100-42-5	Styrene	25	26.5	106	78-119
75-85-4	Tert-Amyl Alcohol	250	214	86	65-124
75-65-0	Tert-Butyl Alcohol	250	237	95	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	24.7	99	72-120
127-18-4	Tetrachloroethylene	25	30.7	123	76-135
109-99-9	Tetrahydrofuran	25	28.2	113	56-122
108-88-3	Toluene	25	25.3	101	80-120
87-61-6	1,2,3-Trichlorobenzene	25	28.2	113	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.9	108	73-129
71-55-6	1,1,1-Trichloroethane	25	27.4	110	75-130
79-00-5	1,1,2-Trichloroethane	25	24.5	98	76-119
79-01-6	Trichloroethylene	25	26.0	104	81-126
75-69-4	Trichlorofluoromethane	25	29.2	117	71-156
95-63-6	1,2,4-Trimethylbenzene	25	25.8	103	79-120
75-01-4	Vinyl Chloride	25	29.1	116	69-159
	m,p-Xylene	50	53.3	107	79-126
95-47-6	o-Xylene	25	27.0	108	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	100%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34748-1MS	J0977243.D	1	06/16/16	DP	n/a	n/a	VJ5336
FA34748-1MSD	J0977244.D	1	06/16/16	DP	n/a	n/a	VJ5336
FA34748-1	J0977223.D	1	06/16/16	DP	n/a	n/a	VJ5336

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

FA34748-1, FA34748-2, FA34748-3, FA34748-4, FA34748-5, FA34748-6, FA34748-7, FA34748-8, FA34748-9, FA34748-10, FA34748-11, FA34748-12

CAS No.	Compound	FA34748-1 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	ND		125	117	94	125	119	95	2	50-147/21
71-43-2	Benzene	ND		25	23.8	95	25	23.0	92	3	81-122/14
100-44-7	Benzyl Chloride	ND		25	15.7	63	25	15.6	62	1	54-122/18
74-97-5	Bromochloromethane	ND		25	23.9	96	25	23.7	95	1	76-123/14
75-27-4	Bromodichloromethane	ND		25	21.1	84	25	20.6	82	2	79-123/19
75-25-2	Bromoform	ND		25	15.7	63*	25	16.8	67	7	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	112	90	125	115	92	3	56-143/18
75-15-0	Carbon Disulfide	ND		25	21.2	85	25	20.6	82	3	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	25.9	104	25	23.2	93	11	76-136/23
108-90-7	Chlorobenzene	ND		25	24.3	97	25	22.8	91	6	82-124/14
75-00-3	Chloroethane	ND		25	33.0	132	25	30.7	123	7	62-144/20
67-66-3	Chloroform	ND		25	24.4	98	25	23.8	95	2	80-124/15
110-82-7	Cyclohexane	0.89	J	25	26.4	102	25	25.8	100	2	73-138/18
124-48-1	Dibromochloromethane	ND		25	18.7	75*	25	19.3	77*	3	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	24.6	98	25	22.6	90	8	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	22.3	89	25	22.1	88	1	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	34.3	137	25	34.8	139	1	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	23.4	94	25	23.2	93	1	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	23.9	96	25	23.5	94	2	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	23.2	93	25	23.4	94	1	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	25.4	102	25	25.3	101	0	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	23.3	93	25	23.4	94	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	26.1	104	25	26.5	106	2	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.1	92	25	23.2	93	0	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.1	104	25	27.0	108	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	22.7	91	25	22.4	90	1	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	19.3	77	25	18.5	74*	4	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	21.3	85	25	20.7	83	3	80-120/22
100-41-4	Ethylbenzene	ND		25	23.5	94	25	22.6	90	4	81-121/14
76-13-1	Freon 113	ND		25	24.2	97	25	23.1	92	5	72-134/20
591-78-6	2-Hexanone	ND		125	116	93	125	117	94	1	61-129/18
98-82-8	Isopropylbenzene	31.8		25	59.0	109	25	57.6	103	2	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	25.0	100	25	24.5	98	2	79-130/16
79-20-9	Methyl Acetate	ND		125	105	84	125	108	86	3	65-126/18
74-83-9	Methyl Bromide	ND		25	30.9	124	25	28.9	116	7	59-143/19
74-87-3	Methyl Chloride	ND		25	31.2	125	25	32.1	128	3	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34748-1MS	J0977243.D	1	06/16/16	DP	n/a	n/a	VJ5336
FA34748-1MSD	J0977244.D	1	06/16/16	DP	n/a	n/a	VJ5336
FA34748-1	J0977223.D	1	06/16/16	DP	n/a	n/a	VJ5336

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

FA34748-1, FA34748-2, FA34748-3, FA34748-4, FA34748-5, FA34748-6, FA34748-7, FA34748-8, FA34748-9, FA34748-10, FA34748-11, FA34748-12

CAS No.	Compound	FA34748-1 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	0.62	J	25	25.8	101	25	25.2	98	2	76-129/17
75-09-2	Methylene Chloride	ND		25	23.9	96	25	23.1	92	3	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	118	94	125	121	97	3	66-122/16
1634-04-4	Methyl Tert Butyl Ether	29.2		25	50.9	87	25	52.2	92	3	72-117/14
100-42-5	Styrene	ND		25	20.8	83	25	20.3	81	2	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	197	79	250	194	78	2	65-124/23
75-65-0	Tert-Butyl Alcohol	715		250	1070	142* [a]	250	1060	138* [a]	1	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.7	87	25	23.2	93	7	72-120/14
127-18-4	Tetrachloroethylene	ND		25	25.0	100	25	22.7	91	10	76-135/16
109-99-9	Tetrahydrofuran	5.6		25	29.6	96	25	27.5	88	7	56-122/21
108-88-3	Toluene	ND		25	22.7	91	25	21.9	88	4	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	24.7	99	25	25.1	100	2	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	24.4	98	25	23.3	93	5	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	24.3	97	25	23.4	94	4	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	22.2	89	25	23.5	94	6	76-119/14
79-01-6	Trichloroethylene	ND		25	23.3	93	25	24.4	98	5	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	31.2	125	25	29.3	117	6	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	23.1	92	25	22.4	90	3	79-120/18
75-01-4	Vinyl Chloride	ND		25	31.5	126	25	29.9	120	5	69-159/18
	m,p-Xylene	ND		50	47.2	94	50	45.3	91	4	79-126/15
95-47-6	o-Xylene	ND		25	23.7	95	25	22.6	90	5	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA34748-1	Limits
1868-53-7	Dibromofluoromethane	102%	102%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	101%	99%	79-125%
2037-26-5	Toluene-D8	98%	98%	102%	85-112%
460-00-4	4-Bromofluorobenzene	100%	101%	101%	83-118%

(a) Outside control limits due to high level in sample relative to spike amount.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5333-BFB
Lab File ID: J0977156.D
Instrument ID: GCMSJ
Injection Date: 06/14/16
Injection Time: 08:32

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	15724	20.8		Pass
75	30.0 - 60.0% of mass 95	38773	51.4		Pass
95	Base peak, 100% relative abundance	75483	100.0		Pass
96	5.0 - 9.0% of mass 95	5453	7.22		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	62312	82.6		Pass
175	5.0 - 9.0% of mass 174	4917	6.51	(7.89) [a]	Pass
176	95.0 - 101.0% of mass 174	60981	80.8	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	3735	4.95	(6.12) [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
VJ5333-IC5333	J0977157.D	06/14/16	09:40	01:08	Initial cal 1
VJ5333-IC5333	J0977158.D	06/14/16	10:03	01:31	Initial cal 2
VJ5333-IC5333	J0977159.D	06/14/16	10:25	01:53	Initial cal 3
VJ5333-IC5333	J0977160.D	06/14/16	10:49	02:17	Initial cal 4
VJ5333-ICC5333	J0977161.D	06/14/16	11:12	02:40	Initial cal 5
VJ5333-IC5333	J0977162.D	06/14/16	11:35	03:03	Initial cal 6
VJ5333-IC5333	J0977163.D	06/14/16	11:58	03:26	Initial cal 7
VJ5333-ICV5333	J0977165.D	06/14/16	12:58	04:26	Initial cal verification 5
VJ5333-BS	J0977166.D	06/14/16	13:27	04:55	Blank Spike
VJ5333-MB	J0977167.D	06/14/16	13:50	05:18	Method Blank
ZZZZZZ	J0977170.D	06/14/16	15:00	06:28	(unrelated sample)
ZZZZZZ	J0977171.D	06/14/16	15:24	06:52	(unrelated sample)
ZZZZZZ	J0977172.D	06/14/16	15:47	07:15	(unrelated sample)
ZZZZZZ	J0977173.D	06/14/16	16:10	07:38	(unrelated sample)
ZZZZZZ	J0977174.D	06/14/16	16:34	08:02	(unrelated sample)
ZZZZZZ	J0977175.D	06/14/16	16:57	08:25	(unrelated sample)
ZZZZZZ	J0977176.D	06/14/16	17:21	08:49	(unrelated sample)
ZZZZZZ	J0977178.D	06/14/16	18:07	09:35	(unrelated sample)
ZZZZZZ	J0977179.D	06/14/16	18:31	09:59	(unrelated sample)
ZZZZZZ	J0977181.D	06/14/16	19:17	10:45	(unrelated sample)
FA34681-2MS	J0977182.D	06/14/16	19:40	11:08	Matrix Spike
FA34681-2MSD	J0977183.D	06/14/16	20:04	11:32	Matrix Spike Duplicate
VJ5333-ECC5333	J0977184.D	06/14/16	20:27	11:55	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5335-BFB
Lab File ID: J0977218.D
Instrument ID: GCMSJ
Injection Date: 06/16/16
Injection Time: 09:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	12573	20.3		Pass
75	30.0 - 60.0% of mass 95	31248	50.5		Pass
95	Base peak, 100% relative abundance	61877	100.0		Pass
96	5.0 - 9.0% of mass 95	4550	7.35		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	50360	81.4		Pass
175	5.0 - 9.0% of mass 174	3427	5.54	(6.81) [a]	Pass
176	95.0 - 101.0% of mass 174	50003	80.8	(99.3) [a]	Pass
177	5.0 - 9.0% of mass 176	3460	5.59	(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
VJ5335-CC5333	J0977220.D	06/16/16	09:58	00:54	Continuing cal 5
VJ5336-BS	J0977221.D	06/16/16	10:27	01:23	Blank Spike
VJ5335-BS	J0977221.D	06/16/16	10:27	01:23	Blank Spike
VJ5336-MB	J0977222.D	06/16/16	10:50	01:46	Method Blank
VJ5335-MB	J0977222.D	06/16/16	10:50	01:46	Method Blank
FA34748-1	J0977223.D	06/16/16	11:42	02:38	MW-14
FA34748-2	J0977224.D	06/16/16	12:05	03:01	MW-14D
FA34748-3	J0977225.D	06/16/16	12:28	03:24	MW-15
FA34748-4	J0977226.D	06/16/16	12:51	03:47	UP-2
FA34748-5	J0977227.D	06/16/16	13:14	04:10	UP-1
FA34748-6	J0977228.D	06/16/16	13:37	04:33	A-1R4
FA34748-7	J0977229.D	06/16/16	14:00	04:56	A-2R2
FA34748-8	J0977230.D	06/16/16	14:23	05:19	S-30
FA34748-9	J0977231.D	06/16/16	14:46	05:42	S-31R2
FA34748-10	J0977232.D	06/16/16	15:10	06:06	EB-060716
FA34748-11	J0977233.D	06/16/16	15:33	06:29	TB-060716
FA34748-12	J0977234.D	06/16/16	15:56	06:52	S-29R
ZZZZZZ	J0977235.D	06/16/16	16:19	07:15	(unrelated sample)
ZZZZZZ	J0977236.D	06/16/16	16:42	07:38	(unrelated sample)
ZZZZZZ	J0977237.D	06/16/16	17:05	08:01	(unrelated sample)
ZZZZZZ	J0977238.D	06/16/16	17:28	08:24	(unrelated sample)
FA34661-3	J0977239.D	06/16/16	17:51	08:47	(used for QC only; not part of job FA34748)
ZZZZZZ	J0977240.D	06/16/16	18:14	09:10	(unrelated sample)
ZZZZZZ	J0977241.D	06/16/16	18:37	09:33	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5335-BFB
Lab File ID: J0977218.D
Instrument ID: GCMSJ
Injection Date: 06/16/16
Injection Time: 09:04

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	J0977242.D	06/16/16	19:00	09:56	(unrelated sample)
FA34748-1MS	J0977243.D	06/16/16	19:23	10:19	Matrix Spike
FA34748-1MSD	J0977244.D	06/16/16	19:46	10:42	Matrix Spike Duplicate
FA34661-3MS	J0977245.D	06/16/16	20:09	11:05	Matrix Spike
FA34661-3MSD	J0977246.D	06/16/16	20:32	11:28	Matrix Spike Duplicate
VJ5335-ECC5333	J0977247.D	06/16/16	20:55	11:51	Ending cal 5

Volatile Internal Standard Area Summary

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5335-CC5333	**Injection Date:**	06/16/16
Lab File ID:	J0977220.D	**Injection Time:**	09:58
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]	574891	7.75	433982	10.84	242638	13.19	37841	5.29
Check Std [b]	644894	7.74	478476	10.83	272158	13.19	52910	5.29
Upper Limit [c]	1289788	8.24	956952	11.33	544316	13.69	105820	5.79
Lower Limit [d]	322447	7.24	239238	10.33	136079	12.69	26455	4.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5336-BS	629554	7.74	473414	10.83	271874	13.19	53091	5.28
VJ5335-BS	629554	7.74	473414	10.83	271874	13.19	53091	5.28
VJ5336-MB	605076	7.74	463780	10.83	242858	13.19	47077	5.29
VJ5335-MB	605076	7.74	463780	10.83	242858	13.19	47077	5.29
FA34748-1	606523	7.74	447438	10.83	245352	13.19	41921	5.29
FA34748-2	605437	7.75	454976	10.84	242439	13.19	42474	5.29
FA34748-3	591573	7.75	436733	10.84	232662	13.19	40160	5.29
FA34748-4	591653	7.75	442444	10.84	227857	13.19	39627	5.30
FA34748-5	573575	7.75	428410	10.84	226102	13.19	40060	5.29
FA34748-6	585065	7.75	451803	10.84	234056	13.19	43013	5.30
FA34748-7	574799	7.75	431345	10.84	228059	13.19	42119	5.28
FA34748-8	564233	7.75	422289	10.84	217758	13.19	39754	5.29
FA34748-9	550064	7.75	422254	10.84	216934	13.19	41985	5.28
FA34748-10	533347	7.75	409948	10.84	212082	13.19	39932	5.30
FA34748-11	537914	7.75	394174	10.84	207891	13.19	40770	5.29
FA34748-12	543266	7.75	402180	10.84	212893	13.19	39019	5.28
ZZZZZZ	525318	7.74	385465	10.84	212995	13.19	40551	5.29
ZZZZZZ	529164	7.75	390613	10.84	205830	13.19	37489	5.30
ZZZZZZ	510308	7.74	385599	10.83	207917	13.19	40215	5.29
ZZZZZZ	514150	7.74	378070	10.83	201888	13.19	40652	5.27
FA34661-3	522439	7.75	391205	10.84	202255	13.19	37435	5.30
ZZZZZZ	502614	7.74	378730	10.84	197304	13.19	37564	5.28
ZZZZZZ	504988	7.75	381152	10.84	202101	13.19	37396	5.28
ZZZZZZ	502737	7.75	378417	10.84	196242	13.19	34372	5.28
FA34748-1MS	519242	7.74	396019	10.83	221603	13.19	37403	5.28
FA34748-1MSD	565707	7.74	444262	10.84	243368	13.19	42344	5.29
FA34661-3MS	585172	7.75	440151	10.84	242590	13.19	36543	5.28
FA34661-3MSD	585217	7.74	437082	10.83	245368	13.19	39846	5.29
VJ5335-ECC5333	598637	7.75	467866	10.84	259548	13.19	39348	5.30

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

Volatile Internal Standard Area Summary

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5335-CC5333	**Injection Date:**	06/16/16
Lab File ID:	J0977220.D	**Injection Time:**	09:58
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**

IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VJ5333-ICC5333 J0977161.D 06/14/16 11:12
(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 Surrogate Recovery Summary

Job Number: FA34748
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
FA34748-1	J0977223.D	103	99	102	101
FA34748-2	J0977224.D	101	100	98	105
FA34748-3	J0977225.D	103	101	100	103
FA34748-4	J0977226.D	99	101	100	106
FA34748-5	J0977227.D	101	101	98	104
FA34748-6	J0977228.D	102	103	97	105
FA34748-7	J0977229.D	100	102	97	106
FA34748-8	J0977230.D	101	101	99	108
FA34748-9	J0977231.D	101	103	97	103
FA34748-10	J0977232.D	104	103	100	106
FA34748-11	J0977233.D	102	101	103	104
FA34748-12	J0977234.D	99	104	102	106
FA34748-1MS	J0977243.D	102	101	98	100
FA34748-1MSD	J0977244.D	102	101	98	101
VJ5336-BS	J0977221.D	103	103	101	100
VJ5336-MB	J0977222.D	103	106	100	107

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%

Initial Calibration Summary

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5333-ICC5333
Lab FileID: J0977161.D

Response Factor Report MSVOA6

```
Method       : C:\msdchem\1\methods\MSJ061416a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Calibration Files
1   =J0977157.D  2   =J0977158.D  3   =J0977159.D  4   =J0977160.D
5   =J0977161.D  6   =J0977162.D  7   =J0977163.D

   Compound             1     2     3     4     5     6     7     Avg   %RSD
-------------------------------------------------------------------------------

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.225 0.109 0.177 0.211 0.225 0.219 0.216 0.197  21.48
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.21909 *A + -0.00127 *A^2

3)P Chloromethane     0.808 0.307 0.372 0.368 0.391 0.387 0.373 0.429  39.45
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.39410 *A + -0.00970 *A^2

4)C Vinyl Chloride    0.564 0.243 0.334 0.341 0.363 0.346 0.333 0.361  27.04
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.36579 *A + -0.01575 *A^2

5)  1,3-Butadiene     0.212 0.274 0.241 0.248 0.201 0.222 0.219 0.231  10.76
6)  Bromomethane      0.548 0.242 0.257 0.237 0.241 0.216 0.197 0.277  43.81
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.26194 *A + -0.03260 *A^2

7)  Chloroethane      0.364 0.172 0.206 0.194 0.198 0.164       0.216  34.32
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
              Response Ratio = 0.00000 + 0.22383 *A + -0.04209 *A^2

8)  Trichlorofluorome 0.585 0.235 0.397 0.424 0.450 0.438 0.424 0.422  24.28
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.44784 *A + -0.01078 *A^2

9)  Ethyl Ether       0.317 0.225 0.237 0.238 0.244 0.246 0.244 0.250  12.10
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.24191 *A + 0.00147 *A^2

10)  1,2-Dichlorotrifl 0.263 0.331 0.329 0.313 0.321 0.330 0.332 0.317   7.82
11)C 1,1-Dichloroethen 0.432 0.436 0.434 0.437 0.436 0.457 0.458 0.441   2.53
12)  Freon 113        0.139 0.271 0.273 0.260 0.271 0.277 0.273 0.252  19.95
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.27068 *A + 0.00170 *A^2

13)  Carbon Disulfide  1.072 0.903 0.909 0.908 0.926 0.964 0.980 0.952   6.37
14)  Iodomethane      0.665 0.403 0.447 0.451 0.463 0.466 0.464 0.480  17.64
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.45837 *A + 0.00311 *A^2

15)  Allyl chloride   0.329 0.429 0.374 0.448 0.405 0.456 0.468 0.416  12.02
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.40113 *A + 0.03414 *A^2

16)  Methylene Chlorid 0.847 0.440 0.454 0.441 0.444 0.442 0.435 0.500  30.60
```

```
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.45064 *A + -0.00775 *A^2

17)  Acetone           0.024 0.015 0.021 0.019 0.017 0.018 0.019 0.019  15.04
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
               Response Ratio = 0.00000 + 0.01722 *A + 0.00014 *A^2

18)  Methyl acetate    0.035 0.027 0.029 0.033 0.033 0.033 0.034 0.032   8.87
19)  trans-1,2-Dichlor 0.511 0.363 0.389 0.393 0.402 0.409 0.408 0.411  11.44
20)  Hexane            0.232 0.254 0.267 0.266 0.282 0.274 0.272 0.264   6.28
21)  Methyl Tert Butyl 0.865 0.711 0.738 0.736 0.766 0.786 0.784 0.769   6.51
22)  Acetonitrile      0.020 0.014 0.014 0.014 0.013 0.013 0.014 0.015  17.10
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.01292 *A + 0.00005 *A^2

23)  Di-isopropyl ethe 1.421 0.907 1.039 1.048 1.078 1.091 1.089 1.096  14.28
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 1.06271 *A + 0.01442 *A^2

24)  Chloroprene       0.267 0.435 0.366 0.444 0.400 0.482 0.497 0.413  19.00
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9982
               Response Ratio = 0.00000 + 0.38927 *A + 0.05575 *A^2

25)P 1,1-Dichloroethan 0.723 0.472 0.485 0.501 0.506 0.519 0.526 0.533  16.09
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  1.0000
               Response Ratio = 0.00000 + 0.49407 *A + 0.01628 *A^2

26)  Acrylonitrile     0.088 0.085 0.083 0.080 0.083 0.084 0.086 0.084   3.05
27)  ETBE              1.166 0.837 0.926 0.952 0.998 1.028 1.015 0.989  10.28
28)  Vinyl acetate     0.520 0.529 0.542 0.547 0.567 0.558 0.536 0.542   2.99
29)  cis-1,2-Dichloroe 0.373 0.273 0.283 0.291 0.305 0.304 0.306 0.305  10.58
30)  2,2-Dichloropropa 0.404 0.330 0.357 0.364 0.376 0.393 0.394 0.374   6.93
31)  Bromochloromethan 0.223 0.122 0.127 0.132 0.129 0.130 0.133 0.142  25.16
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.12668 *A + 0.00312 *A^2

32)  Cyclohexane       0.361 0.466 0.493 0.519 0.533 0.538 0.552 0.495  13.28
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.51020 *A + 0.02081 *A^2

33)C Chloroform        0.803 0.488 0.488 0.513 0.517 0.528 0.532 0.553  20.22
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.50906 *A + 0.01169 *A^2

34)  Ethyl acetate     0.209 0.214 0.210 0.210 0.223 0.213 0.212 0.213   2.26
35)  Tetrahydrofuran   0.081 0.056 0.065 0.056 0.060 0.062 0.063 0.063  13.57
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
               Response Ratio = 0.00000 + 0.05776 *A + 0.00262 *A^2

36)S Dibromofluorometh 0.252 0.238 0.249 0.247 0.246 0.244 0.248 0.246   1.73
37)  Carbon Tetrachlor 0.302 0.336 0.365 0.369 0.359 0.380 0.378 0.355   7.83
38)  1,1,1-Trichloroet 0.435 0.418 0.426 0.435 0.435 0.453 0.463 0.438   3.49
39)  2-Butanone        0.104 0.074 0.093 0.090 0.088 0.090 0.091 0.090   9.70
40)  1,1-Dichloroprope 0.345 0.344 0.339 0.354 0.362 0.366 0.372 0.355   3.45
41)  tert-Butyl Format 0.160 0.168 0.189 0.205 0.214 0.216 0.222 0.196  12.46
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
               Response Ratio = 0.00000 + 0.20227 *A + 0.00098 *A^2

42)  Propionitrile     0.026 0.025 0.028 0.028 0.028 0.028 0.029 0.028   6.24
43)  Methacrylonitrile 0.123 0.133 0.158 0.141 0.140 0.137 0.135 0.138   7.80
```

Initial Calibration Summary

Job Number: FA34748 **Sample:** VJ5333-ICC5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977161.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
44)  Benzene           1.593 0.996 1.105 1.098 1.135 1.157 1.152 1.177  16.28
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 1.12004 *A + 0.01780 *A^2

45)  TAME              0.863 0.646 0.713 0.742 0.766 0.799 0.798 0.761   9.15
46)S 1,2-Dichloroethan 0.318 0.313 0.315 0.309 0.311 0.316 0.317 0.314   1.14
47)  1,2-Dichloroethan 0.604 0.381 0.395 0.377 0.386 0.380 0.382 0.415  20.15
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.38240 *A + -0.00058 *A^2

48)  Trichloroethene   0.380 0.264 0.259 0.272 0.283 0.286 0.289 0.291  14.12
49)  Methylcyclohexane 0.313 0.445 0.461 0.489 0.497 0.512 0.522 0.462  15.45
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  1.0000
              Response Ratio = 0.00000 + 0.47942 *A + 0.02151 *A^2

50)  Dibromomethane    0.194 0.146 0.148 0.147 0.156 0.155 0.156 0.158  10.56
51)C 1,2-Dichloropropa 0.469 0.271 0.279 0.291 0.296 0.306 0.305 0.317  21.66
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.29278 *A + 0.00653 *A^2

52)  Bromodichlorometh 0.506 0.317 0.339 0.354 0.365 0.375 0.381 0.377  16.25
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.35145 *A + 0.01533 *A^2

53)  Methyl methacryla 0.102 0.142 0.176 0.186 0.192 0.198 0.207 0.172  21.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.17804 *A + 0.01467 *A^2

54)  2-Chloroethyl vin 0.134 0.125 0.154 0.151 0.166 0.166 0.167 0.152  11.04
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.15831 *A + 0.00094 *A^2

55)  cis-1,3-Dichlorop 0.538 0.362 0.379 0.409 0.430 0.444 0.449 0.430  13.40

56) I   Chlorobenzene-d5      ----------------ISTD---------------------
57)S Toluene-d8        1.342 1.369 1.310 1.335 1.343 1.306 1.297 1.329   1.93
58)C Toluene           2.037 1.532 1.492 1.529 1.574 1.553 1.517 1.605  11.99
59)  2-Nitropropane    0.073 0.059 0.066 0.075 0.079 0.075 0.076 0.072   9.54
60)  4-Methyl-2-pentan 0.267 0.267 0.306 0.301 0.291 0.297 0.289 0.288   5.36
61)  trans-1,3-Dichlor 0.498 0.407 0.417 0.447 0.491 0.479 0.485 0.461   8.02
62)  Tetrachloroethene 0.405 0.378 0.358 0.373 0.392 0.384 0.403 0.385   4.36
63)  Ethyl methacrylat 0.179 0.328 0.316 0.379 0.389 0.399 0.414 0.343  23.66
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.36414 *A + 0.02503 *A^2

64)  1,1,2-Trichloroet 0.330 0.241 0.259 0.256 0.264 0.254 0.254 0.265  11.05
65)  Dibromochlorometh 0.358 0.290 0.299 0.306 0.322 0.327 0.328 0.319   7.12
66)  1,3-Dichloropropa 0.647 0.459 0.484 0.506 0.536 0.506 0.513 0.522  11.57
67)  1,2-Dibromoethane 0.297 0.248 0.276 0.277 0.294 0.287 0.284 0.280   5.71
68)  2-hexanone        0.203 0.180 0.206 0.205 0.206 0.210 0.205 0.202   4.98
69)  1-Chlorohexane    0.337 0.430 0.428 0.464 0.475 0.491 0.498 0.446  12.38
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.45886 *A + 0.02008 *A^2

70)C Ethylbenzene      2.303 1.708 1.764 1.797 1.880 1.850 1.817 1.874  10.52
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 1.87444 *A + -0.02616 *A^2

71)P Chlorobenzene     1.542 0.946 0.973 0.975 1.030 1.020 1.014 1.072  19.58
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
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                Response Ratio = 0.00000 + 1.01233 *A + 0.00197 *A^2

72)  1,1,1,2-Tetrachlo 0.456 0.327 0.316 0.335 0.348 0.347 0.338 0.352  13.38
73)  m,p-Xylene        1.608 1.263 1.325 1.353 1.439 1.406 1.354 1.393   7.94
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 1.45116 *A + -0.02264 *A^2

74)  o-Xylene          1.587 1.211 1.322 1.379 1.441 1.446 1.431 1.402   8.33
75)  Styrene           1.192 0.898 0.956 1.013 1.070 1.083 1.106 1.046   9.41
76)P Bromoform         0.218 0.152 0.160 0.176 0.192 0.192 0.195 0.183  12.37
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 0.18117 *A + 0.00711 *A^2

77)  Isopropylbenzene  1.551 1.422 1.502 1.587 1.661 1.651 1.659 1.576   5.77

78) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
79)S 4-Bromofluorobenz 0.942 0.967 0.935 0.913 0.936 0.918 0.928 0.934   1.91
80)  cis-1,4-Dichloro- 0.073 0.054 0.064 0.105 0.109 0.131 0.142 0.097  35.14
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 0.09015 *A + 0.02644 *A^2

81)  n-Propylbenzene   4.049 3.520 3.539 3.529 3.720 3.753 3.709 3.688   5.10
82)  Bromobenzene      1.132 0.799 0.802 0.759 0.799 0.792 0.799 0.840  15.40
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 0.78013 *A + 0.00921 *A^2

83)P 1,1,2,2-Tetrachlo 0.772 0.592 0.645 0.634 0.675 0.654 0.660 0.662   8.38
84)  1,3,5-Trimethylbe 3.016 2.514 2.543 2.584 2.792 2.821 2.818 2.727   6.77
85)  2-Chlorotoluene   3.706 2.482 2.496 2.517 2.636 2.654 2.659 2.736  15.88
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 2.57664 *A + 0.04386 *A^2

86)  trans-1,4-Dichlor 0.126 0.055 0.085 0.107 0.116 0.131 0.143 0.109  27.79
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.09707 *A + 0.02305 *A^2

87)  1,2,3-Trichloropr 0.167 0.187 0.166 0.159 0.170 0.159 0.167 0.168   5.60
88)  Cyclohexanone     0.014 0.021 0.018 0.019 0.021 0.021 0.020 0.019  12.98
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 0.02074 *A + -0.00008 *A^2

89)  4-Chlorotoluene   3.007 2.112 2.187 2.235 2.372 2.429 2.404 2.392  12.37
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 2.32361 *A + 0.04642 *A^2

90)  a-Methyl Styrene  0.793 1.115 1.143 1.352 1.355 1.484 1.507 1.250  20.16
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 1.29665 *A + 0.10979 *A^2

91)  tert-Butylbenzene 1.651 1.399 1.423 1.482 1.535 1.544 1.563 1.514   5.73
92)  1,2,4-Trimethylbe 3.112 2.389 2.577 2.598 2.733 2.776 2.774 2.708   8.31
93)  Pentachloroethane 0.351 0.414 0.399 0.442 0.437 0.463 0.454 0.423   9.16
94)  sec-Butylbenzene  2.953 2.964 3.068 3.130 3.254 3.281 3.287 3.134   4.62
95)  4-Isopropyltoluen 2.526 2.425 2.552 2.560 2.732 2.772 2.805 2.625   5.50
96)  1,3-Dichlorobenze 2.165 1.430 1.501 1.475 1.551 1.548 1.540 1.602  15.76
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 1.52698 *A + 0.00842 *A^2

97)  1,4-Dichlorobenze 2.497 1.612 1.572 1.487 1.595 1.611 1.606 1.711  20.40
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
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                Response Ratio = 0.00000 + 1.55945 *A + 0.02565 *A^2

 98)  n-Butylbenzene    1.504 1.350 1.398 1.474 1.569 1.656 1.696 1.521   8.40
 99)  Benzyl Chloride   0.132 0.144 0.163 0.202 0.223 0.234 0.242 0.192  23.44
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 0.20106 *A + 0.02130 *A^2

100)  1,2-Dichlorobenze 1.881 1.325 1.363 1.370 1.462 1.457 1.446 1.472  12.78
101)  1,2-Dibromo-3-Chl 0.122 0.096 0.081 0.080 0.090 0.091 0.094 0.093  14.89
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 0.08328 *A + 0.00546 *A^2

102)  Hexachlorobutadie 0.592 0.439 0.443 0.479 0.492 0.515 0.530 0.499  10.71
103)  1,2,4-Trichlorobe 1.285 0.834 0.812 0.888 0.950 0.961 0.978 0.958  16.43
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 0.90027 *A + 0.03979 *A^2

104)  Naphthalene       1.311 0.972 1.110 1.217 1.307 1.304 1.338 1.223  11.08
105)  1,2,3-Trichlorobe 1.024 0.644 0.671 0.712 0.750 0.740 0.767 0.758  16.51
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 0.70503 *A + 0.03052 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.097 0.134 0.149 0.161 0.140 0.144 0.138  15.76
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9965
                Response Ratio = 0.00000 + 0.15210 *A + -0.00115 *A^2

108)  acrolein          3.702 3.010 3.072 2.858 2.928 2.794 2.670 3.005  11.16
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 3.04918 *A + -0.18786 *A^2

109)  Tert Butyl Alcoho 1.887 1.230 1.384 1.267 1.381 1.353 1.311 1.402  15.80
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 1.38199 *A + -0.01622 *A^2

110)  tert Amyl alcohol 1.196 0.895 1.069 1.039 1.098 1.108 1.093 1.071   8.53
111)  Isobutyl alcohol  0.409 0.548 0.550 0.533 0.535 0.482 0.486 0.506  10.08
112)  1,4-Dioxane             0.047 0.097 0.092 0.120 0.104 0.102 0.094  26.27
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9941
                Response Ratio = 0.00000 + 0.11063 *A + -0.00103 *A^2

113)  3,3-Dimethyl-1-bu 1.056 0.945 1.114 1.176 1.330 1.303 1.267 1.170  12.05
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
                Response Ratio = 0.00000 + 1.29126 *A + -0.00080 *A^2

 ---------------------------------------------------------------------------
 (#) = Out of Range

          MSJ061416a.M        Wed Jun 15 07:57:30 2016
```

Initial Calibration Verification

Job Number: FA34748 **Sample:** VJ5333-ICV5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977165.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\061416\J0977165.D          Vial: 1
Acq On    : 14 Jun 2016  12:58 pm                    Operator: darshnap
Sample    : icv5333-5                                Inst    : MSVOA6
Misc      : MS34133,VJ5333,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ061416a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jun 14 13:17:14 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	105	0.00	7.74
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	62.819	-57.0#	159	-0.01	2.69
3 P	Chloromethane	40.000	51.328	-28.3#	132	0.00	2.89
4 C	Vinyl Chloride	40.000	47.258	-18.1	119	0.00	3.03
		AvgRF	CCRF	%Dev			
5	1,3-Butadiene	0.231	0.035	84.8#	18#	-0.02	3.01
		Amount	Calc.	%Drift			
6	Bromomethane	40.000	43.668	-9.2	111	0.00	3.45
7	Chloroethane	40.000	45.486	-13.7	112	0.00	3.60
8	Trichlorofluoromethane	40.000	44.479	-11.2	113	0.00	3.83
9	Ethyl Ether	40.000	36.975	7.6	96	0.00	4.11
		AvgRF	CCRF	%Dev			
10	1,2-Dichlorotrifluoroetha	0.317	0.372	-17.4	121	0.00	4.36
11 C	1,1-Dichloroethene	0.441	0.459	-4.1	110	0.00	4.38
		Amount	Calc.	%Drift			
12	Freon 113	40.000	36.822	7.9	97	0.00	4.46
		AvgRF	CCRF	%Dev			
13	Carbon Disulfide	0.952	0.864	9.2	98	-0.01	4.46
		Amount	Calc.	%Drift			
14	Iodomethane	40.000	36.340	9.1	95	0.00	4.57
15	Allyl chloride	40.000	38.610	3.5	106	0.00	4.91
16	Methylene Chloride	40.000	39.204	2.0	103	0.00	5.03
17	Acetone	200.000	200.406	-0.2	108	-0.01	5.05
		AvgRF	CCRF	%Dev			
18	Methyl acetate	0.032	0.031	3.1	99	0.00	5.18
19	trans-1,2-Dichloroethene	0.411	0.439	-6.8	114	0.00	5.21
20	Hexane	0.264	0.255	3.4	95	0.00	5.28
21	Methyl Tert Butyl Ether	0.769	0.742	3.5	101	0.00	5.32
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	393.264	1.7	104	0.00	5.58
23	Di-isopropyl ether	40.000	38.236	4.4	100	0.00	5.70
24	Chloroprene	40.000	41.406	-3.5	118	0.00	5.85

Initial Calibration Verification

Job Number: FA34748 **Sample:** VJ5333-ICV5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977165.D
Project: BMSMC, Building 5 Area, Humacao, PR

25	P	1,1-Dichloroethane	40.000	41.526	-3.8	109	0.00	5.88
		----------	AvgRF	CCRF	%Dev	----------		
26		Acrylonitrile	0.084	0.085	-1.2	107	-0.01	5.91
27		ETBE	0.989	0.928	6.2	97	0.00	6.10
28		Vinyl acetate	0.542	0.524	3.3	97	0.00	6.09
29		cis-1,2-Dichloroethene	0.305	0.288	5.6	99	0.00	6.46
30		2,2-Dichloropropane	0.374	0.417	-11.5	116	-0.01	6.59
		----------	Amount	Calc.	%Drift	----------		
31		Bromochloromethane	40.000	38.508	3.7	101	0.00	6.67
32		Cyclohexane	40.000	39.116	2.2	101	0.00	6.72
33	C	Chloroform	40.000	40.231	-0.6	105	0.00	6.72
		----------	AvgRF	CCRF	%Dev	----------		
34		Ethyl acetate	0.213	0.208	2.3	98	0.00	6.79
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	37.914	5.2	99	0.00	6.90
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.246	0.248	-0.8	106	0.00	6.91
37		Carbon Tetrachloride	0.355	0.389	-9.6	113	0.00	6.92
38		1,1,1-Trichloroethane	0.438	0.431	1.6	103	0.00	6.98
39		2-Butanone	0.090	0.091	-1.1	108	0.00	7.01
40		1,1-Dichloropropene	0.355	0.357	-0.6	103	0.00	7.09
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	456.440	-14.1	118	0.00	7.17
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.028	0.029	-3.6	106	0.00	7.32
43		Methacrylonitrile	0.138	0.141	-2.2	106	0.00	7.35
		----------	Amount	Calc.	%Drift	----------		
44		Benzene	40.000	39.413	1.5	103	0.00	7.34
		----------	AvgRF	CCRF	%Dev	----------		
45		TAME	0.761	0.727	4.5	99	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.314	0.317	-1.0	107	0.00	7.46
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	40.514	-1.3	105	0.00	7.53
		----------	AvgRF	CCRF	%Dev	----------		
48		Trichloroethene	0.291	0.285	2.1	105	0.00	7.92
		----------	Amount	Calc.	%Drift	----------		
49		Methylcyclohexane	40.000	40.495	-1.2	106	0.00	7.95
		----------	AvgRF	CCRF	%Dev	----------		
50		Dibromomethane	0.158	0.156	1.3	105	0.00	8.35
		----------	Amount	Calc.	%Drift	----------		
51	C	1,2-Dichloropropane	40.000	39.491	1.3	104	0.00	8.43
52		Bromodichloromethane	40.000	40.717	-1.8	106	0.00	8.48
53		Methyl methacrylate	40.000	44.742	-11.9	116	0.00	8.58
54		2-Chloroethyl vinyl ether	200.000	195.528	2.2	100	0.00	8.99
		----------	AvgRF	CCRF	%Dev	----------		

Initial Calibration Verification

Job Number: FA34748 **Sample:** VJ5333-ICV5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977165.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.430	0.431	-0.2	105	0.00	9.10
56	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00	10.84
57	S	Toluene-d8	1.329	1.328	0.1	103	0.00	9.29
58	C	Toluene	1.605	1.566	2.4	104	0.00	9.34
59		2-Nitropropane	0.072	0.076	-5.6	100	0.00	9.54
60		4-Methyl-2-pentanone	0.288	0.294	-2.1	105	0.00	9.66
61		trans-1,3-Dichloropropene	0.461	0.522	-13.2	111	0.00	9.73
62		Tetrachloroethene	0.385	0.395	-2.6	105	0.00	9.74
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	36.176	9.6	93	0.00	9.83
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.265	0.267	-0.8	105	0.00	9.89
65		Dibromochloromethane	0.319	0.331	-3.8	107	0.00	10.08
66		1,3-Dichloropropane	0.522	0.504	3.4	98	0.00	10.17
67		1,2-Dibromoethane	0.280	0.300	-7.1	107	0.00	10.35
68		2-hexanone	0.202	0.202	0.0	102	0.00	10.48
		----------	Amount	Calc.	%Drift	----------		
69		1-Chlorohexane	40.000	40.922	-2.3	107	0.00	10.78
70	C	Ethylbenzene	40.000	39.644	0.9	102	0.00	10.85
71	P	Chlorobenzene	40.000	40.361	-0.9	104	0.00	10.85
		----------	AvgRF	CCRF	%Dev	----------		
72		1,1,1,2-Tetrachloroethane	0.352	0.367	-4.3	110	0.00	10.90
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	82.281	-2.9	106	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.402	1.443	-2.9	105	0.00	11.42
75		Styrene	1.046	1.053	-0.7	103	0.00	11.47
		----------	Amount	Calc.	%Drift	----------		
76	P	Bromoform	40.000	40.130	-0.3	102	0.00	11.54
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.576	1.743	-10.6	110	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	13.19
79	S	4-Bromofluorobenzene	0.934	0.920	1.5	105	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	50.547	-26.4#	145	0.00	12.08
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.688	3.785	-2.6	109	0.00	12.15
		----------	Amount	Calc.	%Drift	----------		
82		Bromobenzene	40.000	38.889	2.8	102	0.00	12.17
		----------	AvgRF	CCRF	%Dev	----------		
83	P	1,1,2,2-Tetrachloroethane	0.662	0.644	2.7	102	0.00	12.21
84		1,3,5-Trimethylbenzene	2.727	2.674	1.9	103	0.00	12.33
		----------	Amount	Calc.	%Drift	----------		
85		2-Chlorotoluene	40.000	39.065	2.3	104	0.00	12.34
86		trans-1,4-Dichloro-2-Bute	40.000	49.133	-22.8#	135	0.00	12.39

Initial Calibration Verification

Job Number: FA34748 **Sample:** VJ5333-ICV5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977165.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.168	0.169	-0.6	107	0.00	12.37

		Amount	Calc.	%Drift			
88	Cyclohexanone	200.000	148.116	25.9#	78	0.00	12.43
89	4-Chlorotoluene	40.000	40.745	-1.9	109	0.00	12.50
90	a-Methyl Styrene	40.000	0.779	98.1#	2	0.15	12.74

		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.514	1.529	-1.0	107	0.00	12.67
92	1,2,4-Trimethylbenzene	2.708	2.718	-0.4	106	0.00	12.74
93	Pentachloroethane	0.423	0.466	-10.2	114	0.00	12.72
94	sec-Butylbenzene	3.134	3.373	-7.6	111	0.00	12.86
95	4-Isopropyltoluene	2.625	2.816	-7.3	110	0.00	12.99

		Amount	Calc.	%Drift			
96	1,3-Dichlorobenzene	40.000	40.307	-0.8	107	0.00	13.12
97	1,4-Dichlorobenzene	40.000	39.553	1.1	105	0.00	13.21

		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.521	1.630	-7.2	111	0.00	13.42

		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	40.294	-0.7	105	0.00	13.43

		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.472	1.443	2.0	106	0.00	13.63

		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	41.624	-4.1	109	0.00	14.37

		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.499	0.519	-4.0	113	0.00	14.91

		Amount	Calc.	%Drift			
103	1,2,4-Trichlorobenzene	40.000	40.347	-0.9	106	0.00	14.96

		AvgRF	CCRF	%Dev			
104	Naphthalene	1.223	1.455	-19.0	119	0.00	15.24

		Amount	Calc.	%Drift			
105	1,2,3-Trichlorobenzene	40.000	41.269	-3.2	108	0.00	15.41

		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	126	0.00	5.30

		Amount	Calc.	%Drift			
107	Ethanol	800.000	718.195	10.2	105	0.00	4.27
108	acrolein	200.000	187.751	6.1	117	0.00	4.74
109	Tert Butyl Alcohol	400.000	345.562	13.6	107	0.00	5.36

		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	1.071	0.944	11.9	108	0.00	7.56
111	Isobutyl alcohol	0.506	0.446	11.9	105	0.00	7.44

		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	667.970	16.5	95	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	1814.606	9.3	110	0.00	10.42

Initial Calibration Verification

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5333-ICV5333
Lab FileID: J0977165.D

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   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    J0977161.D MSJ061416a.M       Wed Jun 15 07:57:18 2016
```

Continuing Calibration Summary

Job Number: FA34748 **Sample:** VJ5335-CC5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977220.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\061616\J0977220.D          Vial: 2
Acq On    : 16 Jun 2016   9:58 am                     Operator: darshnap
Sample    : cc5333-5                                  Inst    : MSVOA6
Misc      : MS34151,VJ5335,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ061416a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jun 14 13:17:14 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	112	0.00	7.74
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	53.552	-33.9#	145	-0.02	2.68
3 P	Chloromethane	40.000	44.062	-10.2	122	0.00	2.89
4 C	Vinyl Chloride	40.000	44.640	-11.6	121	0.00	3.04
		AvgRF	CCRF	%Dev			
5	1,3-Butadiene	0.231	0.215	6.9	120	0.00	3.03
		Amount	Calc.	%Drift			
6	Bromomethane	40.000	43.673	-9.2	119	0.00	3.45
7	Chloroethane	40.000	43.137	-7.8	115	0.00	3.60
8	Trichlorofluoromethane	40.000	44.755	-11.9	122	0.00	3.83
9	Ethyl Ether	40.000	39.488	1.3	110	-0.01	4.10
		AvgRF	CCRF	%Dev			
10	1,2-Dichlorotrifluoroetha	0.317	0.322	-1.6	113	0.01	4.36
11 C	1,1-Dichloroethene	0.441	0.438	0.7	112	-0.01	4.38
		Amount	Calc.	%Drift			
12	Freon 113	40.000	40.910	-2.3	115	0.00	4.46
		AvgRF	CCRF	%Dev			
13	Carbon Disulfide	0.952	0.919	3.5	111	-0.01	4.46
		Amount	Calc.	%Drift			
14	Iodomethane	40.000	38.375	4.1	107	0.00	4.57
15	Allyl chloride	40.000	42.112	-5.3	125	0.00	4.91
16	Methylene Chloride	40.000	39.203	2.0	110	0.00	5.03
17	Acetone	200.000	230.663	-15.3	134	-0.01	5.05
		AvgRF	CCRF	%Dev			
18	Methyl acetate	0.032	0.033	-3.1	111	0.00	5.18
19	trans-1,2-Dichloroethene	0.411	0.384	6.6	107	0.00	5.21
20	Hexane	0.264	0.266	-0.8	106	0.00	5.28
21	Methyl Tert Butyl Ether	0.769	0.751	2.3	110	0.00	5.32
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	431.139	-7.8	123	0.01	5.58
23	Di-isopropyl ether	40.000	37.223	6.9	104	0.00	5.70
24	Chloroprene	40.000	46.249	-15.6	143	0.00	5.86

Continuing Calibration Summary

Job Number: FA34748 **Sample:** VJ5335-CC5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977220.D
Project: BMSMC, Building 5 Area, Humacao, PR

25	P	1,1-Dichloroethane	40.000	37.941	5.1	106	0.00	5.88
		----------	AvgRF	CCRF	%Dev	----------		
26		Acrylonitrile	0.084	0.085	-1.2	114	-0.01	5.91
27		ETBE	0.989	0.938	5.2	105	0.00	6.10
28		Vinyl acetate	0.542	0.551	-1.7	109	0.00	6.09
29		cis-1,2-Dichloroethene	0.305	0.282	7.5	104	0.00	6.46
30		2,2-Dichloropropane	0.374	0.375	-0.3	112	0.00	6.59
		----------	Amount	Calc.	%Drift	----------		
31		Bromochloromethane	40.000	39.096	2.3	110	0.00	6.67
32		Cyclohexane	40.000	40.191	-0.5	111	0.00	6.72
33	C	Chloroform	40.000	38.642	3.4	109	0.00	6.72
		----------	AvgRF	CCRF	%Dev	----------		
34		Ethyl acetate	0.213	0.214	-0.5	108	0.00	6.79
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	42.472	-6.2	120	0.00	6.91
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.246	0.251	-2.0	114	0.00	6.91
37		Carbon Tetrachloride	0.355	0.364	-2.5	114	0.00	6.92
38		1,1,1-Trichloroethane	0.438	0.427	2.5	110	0.00	6.98
39		2-Butanone	0.090	0.094	-4.4	119	0.00	7.01
40		1,1-Dichloropropene	0.355	0.351	1.1	109	0.00	7.09
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	414.744	-3.7	114	0.00	7.18
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.028	0.030	-7.1	118	0.00	7.32
43		Methacrylonitrile	0.138	0.140	-1.4	112	0.00	7.35
		----------	Amount	Calc.	%Drift	----------		
44		Benzene	40.000	37.423	6.4	105	0.00	7.35
		----------	AvgRF	CCRF	%Dev	----------		
45		TAME	0.761	0.738	3.0	108	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.314	0.315	-0.3	114	0.00	7.46
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	37.740	5.6	105	0.00	7.53
		----------	AvgRF	CCRF	%Dev	----------		
48		Trichloroethene	0.291	0.264	9.3	105	0.00	7.92
		----------	Amount	Calc.	%Drift	----------		
49		Methylcyclohexane	40.000	39.716	0.7	111	0.00	7.95
		----------	AvgRF	CCRF	%Dev	----------		
50		Dibromomethane	0.158	0.149	5.7	107	0.00	8.34
		----------	Amount	Calc.	%Drift	----------		
51	C	1,2-Dichloropropane	40.000	37.169	7.1	105	0.00	8.43
52		Bromodichloromethane	40.000	37.405	6.5	104	0.00	8.48
53		Methyl methacrylate	40.000	42.340	-5.9	118	0.00	8.58
54		2-Chloroethyl vinyl ether	200.000	207.157	-3.6	113	0.00	8.99
		----------	AvgRF	CCRF	%Dev	----------		

Continuing Calibration Summary

Job Number: FA34748 **Sample:** VJ5335-CC5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977220.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.430	0.398	7.4	104	0.00	9.10
56	I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00	10.83
57	S	Toluene-d8	1.329	1.343	-1.1	110	0.00	9.28
58	C	Toluene	1.605	1.491	7.1	104	0.00	9.34
59		2-Nitropropane	0.072	0.077	-6.9	107	0.00	9.54
60		4-Methyl-2-pentanone	0.288	0.308	-6.9	117	0.00	9.66
61		trans-1,3-Dichloropropene	0.461	0.462	-0.2	104	0.00	9.72
62		Tetrachloroethene	0.385	0.382	0.8	107	0.00	9.74
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	42.454	-6.1	116	0.00	9.83
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.265	0.248	6.4	103	0.00	9.89
65		Dibromochloromethane	0.319	0.312	2.2	107	0.00	10.09
66		1,3-Dichloropropane	0.522	0.496	5.0	102	0.00	10.17
67		1,2-Dibromoethane	0.280	0.277	1.1	104	0.00	10.35
68		2-hexanone	0.202	0.216	-6.9	116	0.00	10.48
		----------	Amount	Calc.	%Drift	----------		
69		1-Chlorohexane	40.000	39.633	0.9	109	0.00	10.78
70	C	Ethylbenzene	40.000	37.970	5.1	103	0.00	10.85
71	P	Chlorobenzene	40.000	37.738	5.7	102	0.00	10.85
		----------	AvgRF	CCRF	%Dev	----------		
72		1,1,1,2-Tetrachloroethane	0.352	0.342	2.8	108	0.00	10.90
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	77.114	3.6	105	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.402	1.378	1.7	105	0.00	11.42
75		Styrene	1.046	1.025	2.0	106	0.00	11.47
		----------	Amount	Calc.	%Drift	----------		
76	P	Bromoform	40.000	39.548	1.1	106	0.00	11.54
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.576	1.611	-2.2	107	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	13.19
79	S	4-Bromofluorobenzene	0.934	0.920	1.5	110	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	54.643	-36.6#	167	0.00	12.08
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.688	3.525	4.4	106	0.00	12.15
		----------	Amount	Calc.	%Drift	----------		
82		Bromobenzene	40.000	37.937	5.2	105	0.00	12.17
		----------	AvgRF	CCRF	%Dev	----------		
83	P	1,1,2,2-Tetrachloroethane	0.662	0.650	1.8	108	0.00	12.21
84		1,3,5-Trimethylbenzene	2.727	2.604	4.5	105	0.00	12.33
		----------	Amount	Calc.	%Drift	----------		
85		2-Chlorotoluene	40.000	37.741	5.6	105	0.00	12.34
86		trans-1,4-Dichloro-2-Bute	40.000	50.889	-27.2#	148	0.00	12.39

Continuing Calibration Summary

Job Number: FA34748 **Sample:** VJ5335-CC5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977220.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.168	0.157	6.5	103	0.00	12.37

		Amount	Calc.	%Drift			
88	Cyclohexanone	200.000	226.952	-13.5	125	0.00	12.43
89	4-Chlorotoluene	40.000	37.496	6.3	105	0.00	12.50
90	a-Methyl Styrene	40.000	40.880	-2.2	117	0.00	12.59

		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.514	1.472	2.8	108	0.00	12.67
92	1,2,4-Trimethylbenzene	2.708	2.564	5.3	105	0.00	12.74
93	Pentachloroethane	0.423	0.451	-6.6	116	0.00	12.72
94	sec-Butylbenzene	3.134	3.140	-0.2	108	0.00	12.86
95	4-Isopropyltoluene	2.625	2.633	-0.3	108	0.00	12.99

		Amount	Calc.	%Drift			
96	1,3-Dichlorobenzene	40.000	38.062	4.8	106	0.00	13.12
97	1,4-Dichlorobenzene	40.000	37.622	5.9	104	0.00	13.21

		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.521	1.554	-2.2	111	0.00	13.42

		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	40.936	-2.3	112	0.00	13.43

		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.472	1.394	5.3	107	0.00	13.63

		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	40.557	-1.4	111	0.00	14.37

		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.499	0.474	5.0	108	0.00	14.91

		Amount	Calc.	%Drift			
103	1,2,4-Trichlorobenzene	40.000	39.948	0.1	110	0.00	14.96

		AvgRF	CCRF	%Dev			
104	Naphthalene	1.223	1.360	-11.2	117	0.00	15.24

		Amount	Calc.	%Drift			
105	1,2,3-Trichlorobenzene	40.000	40.979	-2.4	112	0.00	15.41

		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	140	0.00	5.29

		Amount	Calc.	%Drift			
107	Ethanol	800.000	817.768	-2.2	132	0.00	4.28
108	acrolein	200.000	167.705	16.1	117	0.00	4.74
109	Tert Butyl Alcohol	400.000	365.194	8.7	126	0.00	5.37

		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	1.071	0.953	11.0	121	0.00	7.56
111	Isobutyl alcohol	0.506	0.440	13.0	115	0.00	7.44

		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	870.371	-8.8	136	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	1776.007	11.2	120	0.00	10.42

Continuing Calibration Summary

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5335-CC5333
Lab FileID: J0977220.D

```
--------------------------------------------------------------------------
--------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    J0977161.D MSJ061416a.M       Fri Jun 17 12:24:12 2016
```

Continuing Calibration Summary

Job Number: FA34748 **Sample:** VJ5335-ECC5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977247.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\061616\J0977247.D          Vial: 23
Acq On    : 16 Jun 2016   8:55 pm                     Operator: darshnap
Sample    : ecc5333-5                                 Inst    : MSVOA6
Misc      : MS34165,VJ5335,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ061416a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jun 14 13:17:14 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	104	0.00	7.75
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	50.491	-26.2	127	0.00	2.70
3 P	Chloromethane	40.000	44.586	-11.5	115	0.00	2.89
4 C	Vinyl Chloride	40.000	45.645	-14.1	115	0.00	3.04
		AvgRF	CCRF	%Dev			
5	1,3-Butadiene	0.231	0.247	-6.9	128	0.00	3.03
		Amount	Calc.	%Drift			
6	Bromomethane	40.000	45.045	-12.6	113	0.00	3.46
7	Chloroethane	40.000	48.993	-22.5	118	0.00	3.61
8	Trichlorofluoromethane	40.000	44.493	-11.2	113	0.00	3.84
9	Ethyl Ether	40.000	42.400	-6.0	110	0.00	4.11
		AvgRF	CCRF	%Dev			
10	1,2-Dichlorotrifluoroetha	0.317	0.344	-8.5	112	0.00	4.36
11 C	1,1-Dichloroethene	0.441	0.478	-8.4	114	0.00	4.39
		Amount	Calc.	%Drift			
12	Freon 113	40.000	42.919	-7.3	112	0.00	4.47
		AvgRF	CCRF	%Dev			
13	Carbon Disulfide	0.952	1.001	-5.1	112	0.00	4.47
		Amount	Calc.	%Drift			
14	Iodomethane	40.000	41.942	-4.9	109	0.00	4.58
15	Allyl chloride	40.000	40.268	-0.7	111	0.00	4.91
16	Methylene Chloride	40.000	40.340	-0.9	105	0.00	5.04
17	Acetone	200.000	187.372	6.3	101	-0.01	5.05
		AvgRF	CCRF	%Dev			
18	Methyl acetate	0.032	0.034	-6.3	109	0.00	5.18
19	trans-1,2-Dichloroethene	0.411	0.422	-2.7	109	0.00	5.22
20	Hexane	0.264	0.292	-10.6	108	0.00	5.29
21	Methyl Tert Butyl Ether	0.769	0.784	-2.0	107	0.00	5.32
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	367.742	8.1	97	0.01	5.58
23	Di-isopropyl ether	40.000	40.986	-2.5	106	0.00	5.71
24	Chloroprene	40.000	42.588	-6.5	121	0.00	5.86

Continuing Calibration Summary

Job Number: FA34748 **Sample:** VJ5335-ECC5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977247.D
Project: BMSMC, Building 5 Area, Humacao, PR

25	P	1,1-Dichloroethane	40.000	40.897	-2.2	107	0.00	5.89
		----------	AvgRF	CCRF	%Dev	----------		
26		Acrylonitrile	0.084	0.083	1.2	104	0.00	5.91
27		ETBE	0.989	1.020	-3.1	106	0.00	6.11
28		Vinyl acetate	0.542	0.515	5.0	95	0.00	6.09
29		cis-1,2-Dichloroethene	0.305	0.306	-0.3	104	0.00	6.46
30		2,2-Dichloropropane	0.374	0.392	-4.8	109	0.00	6.59
		----------	Amount	Calc.	%Drift	----------		
31		Bromochloromethane	40.000	43.337	-8.3	113	0.00	6.68
32		Cyclohexane	40.000	43.460	-8.7	112	0.00	6.72
33	C	Chloroform	40.000	40.849	-2.1	107	0.00	6.73
		----------	AvgRF	CCRF	%Dev	----------		
34		Ethyl acetate	0.213	0.204	4.2	95	0.00	6.79
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	40.309	-0.8	105	0.00	6.91
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.246	0.256	-4.1	108	0.00	6.92
37		Carbon Tetrachloride	0.355	0.390	-9.9	113	0.00	6.92
38		1,1,1-Trichloroethane	0.438	0.463	-5.7	111	0.00	6.99
39		2-Butanone	0.090	0.085	5.6	100	0.00	7.01
40		1,1-Dichloropropene	0.355	0.379	-6.8	109	0.00	7.09
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	409.289	-2.3	105	0.00	7.18
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.028	0.026	7.1	97	0.00	7.32
43		Methacrylonitrile	0.138	0.128	7.2	96	0.00	7.35
		----------	Amount	Calc.	%Drift	----------		
44		Benzene	40.000	40.789	-2.0	106	0.00	7.35
		----------	AvgRF	CCRF	%Dev	----------		
45		TAME	0.761	0.782	-2.8	106	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.314	0.317	-1.0	106	0.00	7.46
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	40.448	-1.1	104	0.00	7.53
		----------	AvgRF	CCRF	%Dev	----------		
48		Trichloroethene	0.291	0.281	3.4	104	0.00	7.92
		----------	Amount	Calc.	%Drift	----------		
49		Methylcyclohexane	40.000	43.350	-8.4	113	0.00	7.95
		----------	AvgRF	CCRF	%Dev	----------		
50		Dibromomethane	0.158	0.153	3.2	102	0.00	8.35
		----------	Amount	Calc.	%Drift	----------		
51	C	1,2-Dichloropropane	40.000	39.138	2.2	103	0.00	8.44
52		Bromodichloromethane	40.000	38.113	4.7	99	0.00	8.48
53		Methyl methacrylate	40.000	36.459	8.9	93	0.00	8.58
54		2-Chloroethyl vinyl ether	200.000	180.663	9.7	92	0.00	9.00
		----------	AvgRF	CCRF	%Dev	----------		

Continuing Calibration Summary

Job Number: FA34748 **Sample:** VJ5335-ECC5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977247.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.430	0.411	4.4	100	0.00	9.10
56	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00	10.84
57	S	Toluene-d8	1.329	1.295	2.6	104	0.00	9.28
58	C	Toluene	1.605	1.528	4.8	105	0.00	9.34
59		2-Nitropropane	0.072	0.071	1.4	96	0.00	9.54
60		4-Methyl-2-pentanone	0.288	0.284	1.4	105	0.00	9.66
61		trans-1,3-Dichloropropene	0.461	0.452	2.0	99	0.00	9.73
62		Tetrachloroethene	0.385	0.443	-15.1	122	0.00	9.74
		----------	Amount	Calc.	%Drift		----------	
63		Ethyl methacrylate	40.000	37.518	6.2	100	0.00	9.83
		----------	AvgRF	CCRF	%Dev		----------	
64		1,1,2-Trichloroethane	0.265	0.242	8.7	99	0.00	9.89
65		Dibromochloromethane	0.319	0.312	2.2	105	0.00	10.09
66		1,3-Dichloropropane	0.522	0.500	4.2	101	0.00	10.17
67		1,2-Dibromoethane	0.280	0.271	3.2	100	0.00	10.35
68		2-hexanone	0.202	0.197	2.5	103	0.00	10.48
		----------	Amount	Calc.	%Drift		----------	
69		1-Chlorohexane	40.000	41.392	-3.5	112	0.00	10.78
70	C	Ethylbenzene	40.000	39.409	1.5	105	0.00	10.85
71	P	Chlorobenzene	40.000	38.821	2.9	103	0.00	10.85
		----------	AvgRF	CCRF	%Dev		----------	
72		1,1,1,2-Tetrachloroethane	0.352	0.331	6.0	103	0.00	10.90
		----------	Amount	Calc.	%Drift		----------	
73		m,p-Xylene	80.000	79.672	0.4	106	0.00	10.98
		----------	AvgRF	CCRF	%Dev		----------	
74		o-Xylene	1.402	1.395	0.5	104	0.00	11.42
75		Styrene	1.046	1.034	1.1	104	0.00	11.47
		----------	Amount	Calc.	%Drift		----------	
76	P	Bromoform	40.000	37.801	5.5	99	0.00	11.54
		----------	AvgRF	CCRF	%Dev		----------	
77		Isopropylbenzene	1.576	1.632	-3.6	106	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00	13.19
79	S	4-Bromofluorobenzene	0.934	0.932	0.2	107	0.00	12.04
		----------	Amount	Calc.	%Drift		----------	
80		cis-1,4-Dichloro-2-butene	40.000	36.918	7.7	99	0.00	12.08
		----------	AvgRF	CCRF	%Dev		----------	
81		n-Propylbenzene	3.688	3.720	-0.9	107	0.00	12.15
		----------	Amount	Calc.	%Drift		----------	
82		Bromobenzene	40.000	39.412	1.5	104	0.00	12.17
		----------	AvgRF	CCRF	%Dev		----------	
83	P	1,1,2,2-Tetrachloroethane	0.662	0.620	6.3	98	0.00	12.21
84		1,3,5-Trimethylbenzene	2.727	2.727	0.0	104	0.00	12.33
		----------	Amount	Calc.	%Drift		----------	
85		2-Chlorotoluene	40.000	39.827	0.4	106	0.00	12.34
86		trans-1,4-Dichloro-2-Bute	40.000	37.787	5.5	99	0.00	12.39

Continuing Calibration Summary

Job Number: FA34748 **Sample:** VJ5335-ECC5333
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977247.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.168	0.161	4.2	101	0.00	12.37

		Amount	Calc.	%Drift			
88	Cyclohexanone	200.000	123.140	38.4	65	0.00	12.43
89	4-Chlorotoluene	40.000	39.801	0.5	106	0.00	12.50
90	a-Methyl Styrene	40.000	37.832	5.4	103	0.00	12.59

		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.514	1.518	-0.3	106	0.00	12.67
92	1,2,4-Trimethylbenzene	2.708	2.682	1.0	105	0.00	12.74
93	Pentachloroethane	0.423	0.337	20.3	82	0.00	12.72
94	sec-Butylbenzene	3.134	3.306	-5.5	109	0.00	12.86
95	4-Isopropyltoluene	2.625	2.724	-3.8	107	0.00	12.99

		Amount	Calc.	%Drift			
96	1,3-Dichlorobenzene	40.000	39.547	1.1	105	0.00	13.12
97	1,4-Dichlorobenzene	40.000	39.146	2.1	104	0.00	13.21

		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.521	1.593	-4.7	109	0.00	13.42

		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	36.429	8.9	94	0.00	13.43

		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.472	1.395	5.2	102	0.00	13.63

		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	37.624	5.9	98	0.00	14.37

		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.499	0.477	4.4	104	0.00	14.91

		Amount	Calc.	%Drift			
103	1,2,4-Trichlorobenzene	40.000	38.332	4.2	100	0.00	14.96

		AvgRF	CCRF	%Dev			
104	Naphthalene	1.223	1.347	-10.1	110	0.00	15.24

		Amount	Calc.	%Drift			
105	1,2,3-Trichlorobenzene	40.000	39.709	0.7	103	0.00	15.41

		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	104	0.01	5.30

		Amount	Calc.	%Drift			
107	Ethanol	800.000	742.171	7.2	89	-0.02	4.25
108	acrolein	200.000	214.476	-7.2	110	0.00	4.75
109	Tert Butyl Alcohol	400.000	414.438	-3.6	106	0.00	5.37

		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	1.071	1.055	1.5	100	0.00	7.56
111	Isobutyl alcohol	0.506	0.499	1.4	97	-0.01	7.43

		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	785.501	1.8	92	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	1941.524	2.9	98	0.00	10.42

Continuing Calibration Summary

Job Number: FA34748
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5335-ECC5333
Lab FileID: J0977247.D

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---------------------------------------------------------------------------
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   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    J0977161.D MSJ061416a.M       Fri Jun 17 12:26:36 2016
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GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977223.D
Acq On : 16 Jun 2016 11:42 am
Operator : darshnap
Sample : fa34748-1 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 13:41:14 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

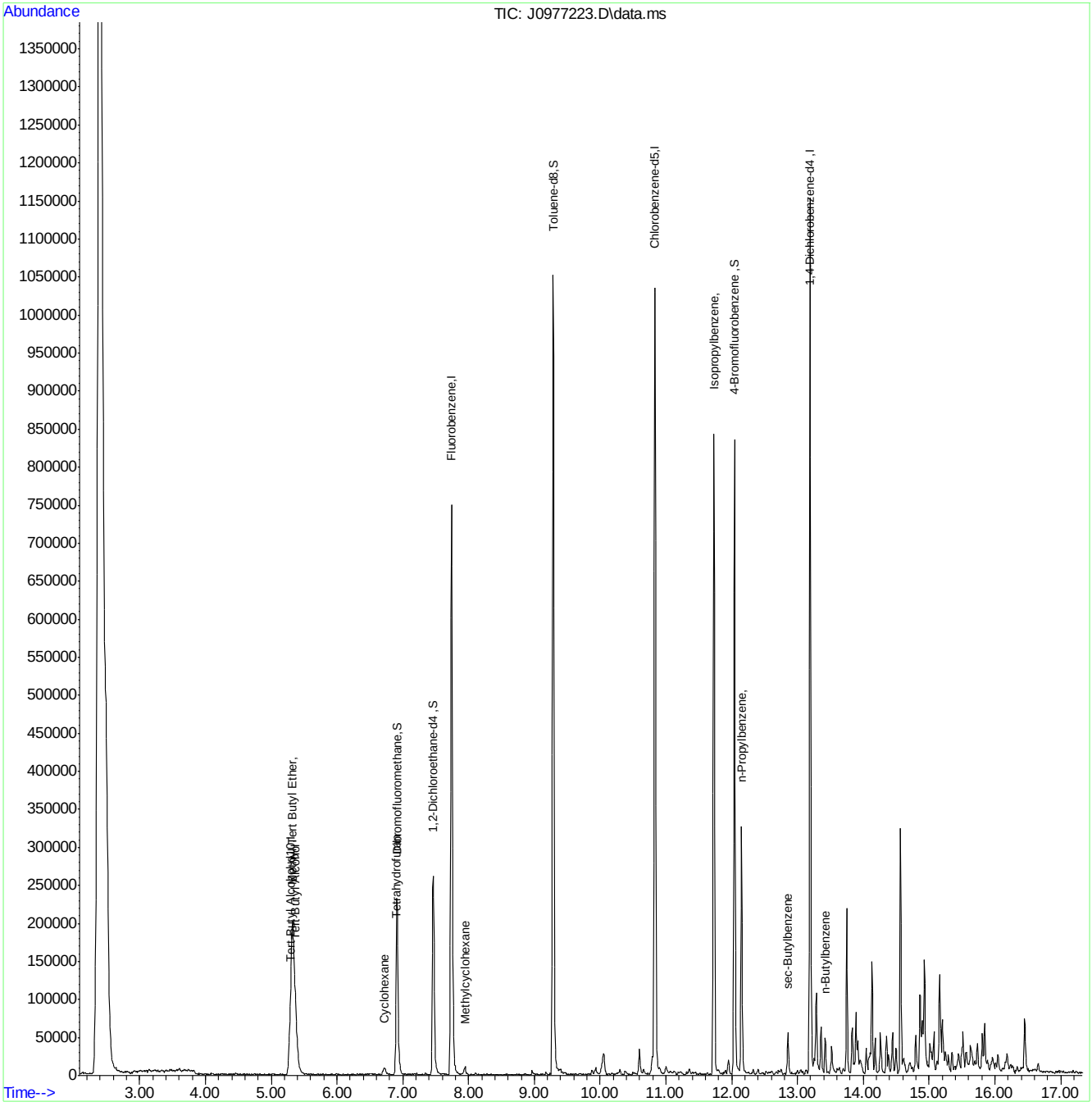
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	606523	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	447438	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	245352	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	41921	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	153286	51.32	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.64%			
46) 1,2-Dichloroethane-d4	7.464	65	189398	49.69	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.38%			
57) Toluene-d8	9.285	98	606971	51.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.08%			
79) 4-Bromofluorobenzene	12.041	95	232606	50.74	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.48%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.319	73	272381	29.18	ug/L	84
32) Cyclohexane	6.717	56	5531	0.89	ug/L	94
35) Tetrahydrofuran	6.900	42	3915	5.56	ug/L #	60
49) Methylcyclohexane	7.945	83	3605	0.62	ug/L #	81
77) Isopropylbenzene	11.729	105	447964	31.76	ug/L	98
81) n-Propylbenzene	12.146	91	220351	12.17	ug/L	98
94) sec-Butylbenzene	12.857	105	26308	1.71	ug/L	76
98) n-Butylbenzene	13.421	92	10901	1.46	ug/L	82
109) Tert Butyl Alcohol	5.360	59	160048	714.62	ug/L	74

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

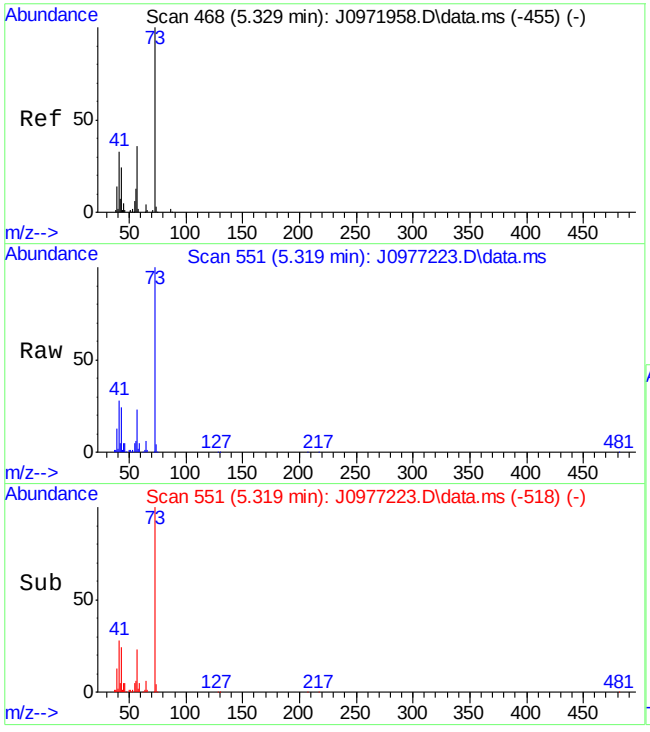
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977223.D
Acq On : 16 Jun 2016 11:42 am
Operator : darshnap
Sample : fa34748-1 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 13:41:14 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



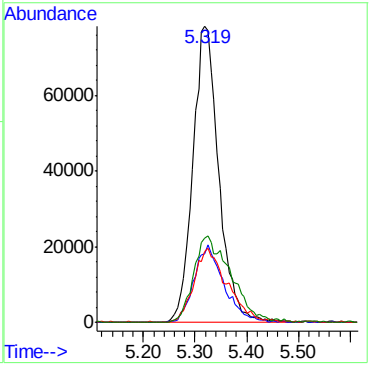
MSJ061416a.M Fri Jun 17 12:21:29 2016 Page: 2

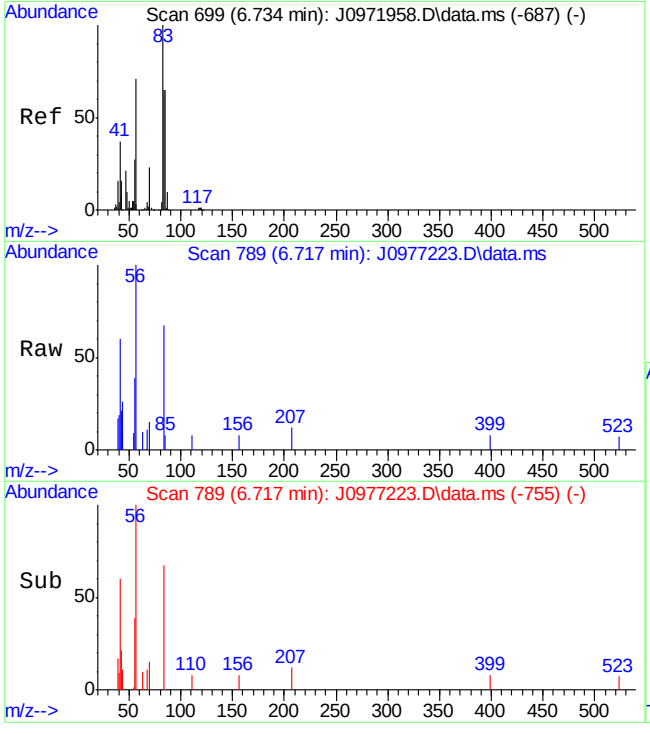


#21
Methyl Tert Butyl Ether
Concen: 29.18 ug/L
RT: 5.319 min Scan# 551
Delta R.T. -0.006 min
Lab File: J0977223.D
Acq: 16 Jun 2016 11:42 am

Tgt Ion: 73 Resp: 272381

Ion	Ratio	Lower	Upper
73	100		
57	23.0	6.8	66.8
43	23.9	0.2	60.2
41	28.4	5.6	65.6

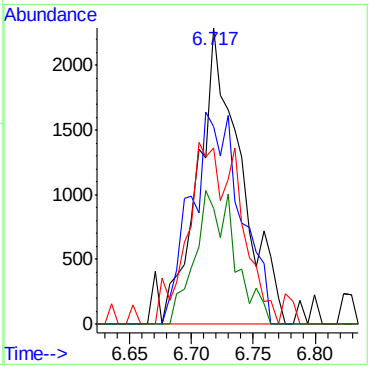


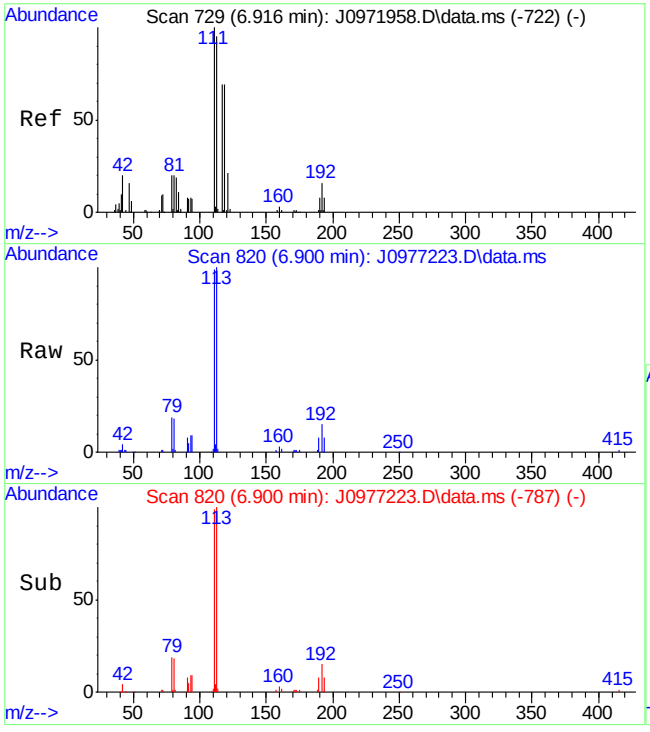


#32
Cyclohexane
Concen: 0.89 ug/L
RT: 6.717 min Scan# 789
Delta R.T. 0.000 min
Lab File: J0977223.D
Acq: 16 Jun 2016 11:42 am

Tgt Ion: 56 Resp: 5531

Ion	Ratio	Lower	Upper
56	100		
84	66.6	51.4	91.4
41	51.9	35.4	75.4
55	39.0	13.8	53.8

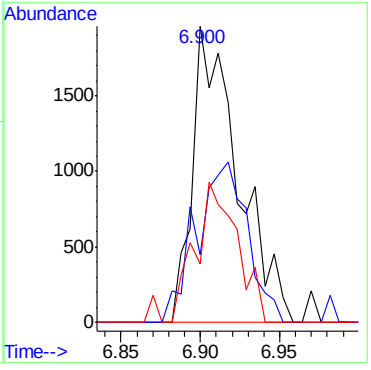


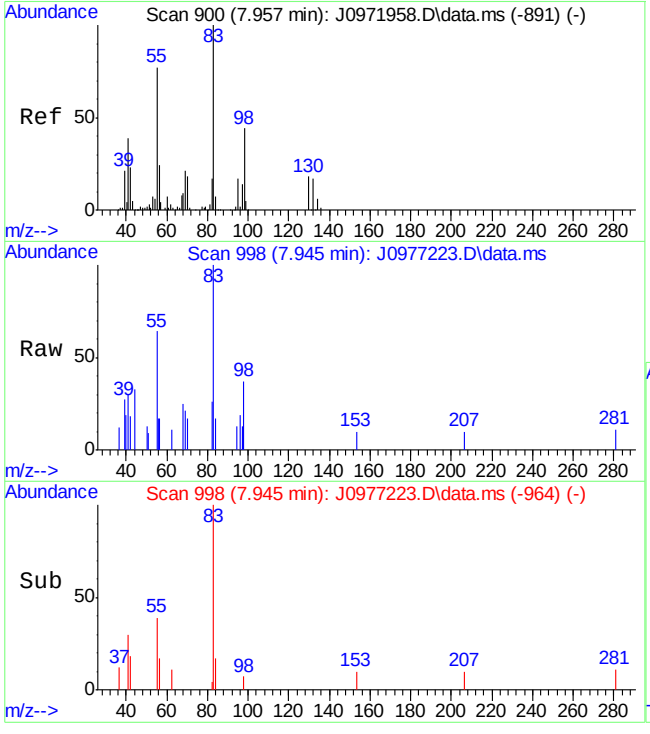


#35
Tetrahydrofuran
Concen: 5.56 ug/L
RT: 6.900 min Scan# 820
Delta R.T. -0.005 min
Lab File: J0977223.D
Acq: 16 Jun 2016 11:42 am

Tgt Ion: 42 Resp: 3915

Ion	Ratio	Lower	Upper
42	100		
41	22.6	31.8	71.8#
72	19.9	24.5	64.5#

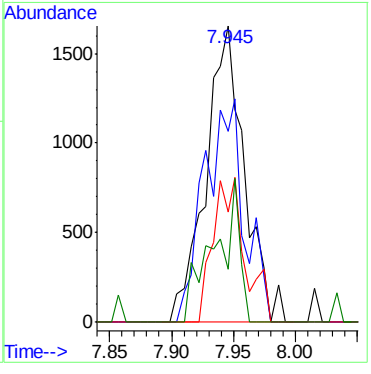


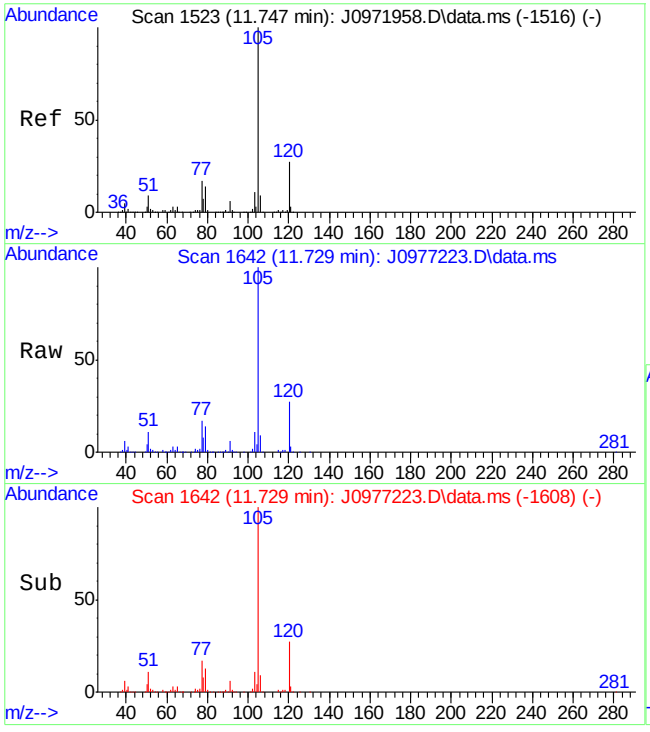


#49
Methylcyclohexane
Concen: 0.62 ug/L
RT: 7.945 min Scan# 998
Delta R.T. 0.000 min
Lab File: J0977223.D
Acq: 16 Jun 2016 11:42 am

Tgt Ion: 83 Resp: 3605

Ion	Ratio	Lower	Upper
83	100		
55	64.3	66.2	106.2#
98	37.1	22.7	62.7
42	17.7	9.2	49.2

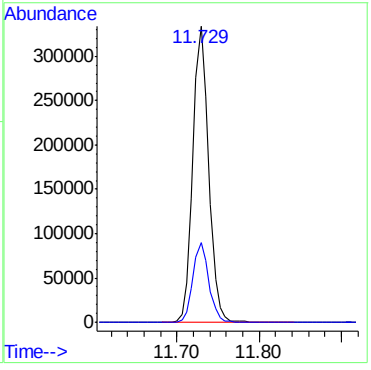


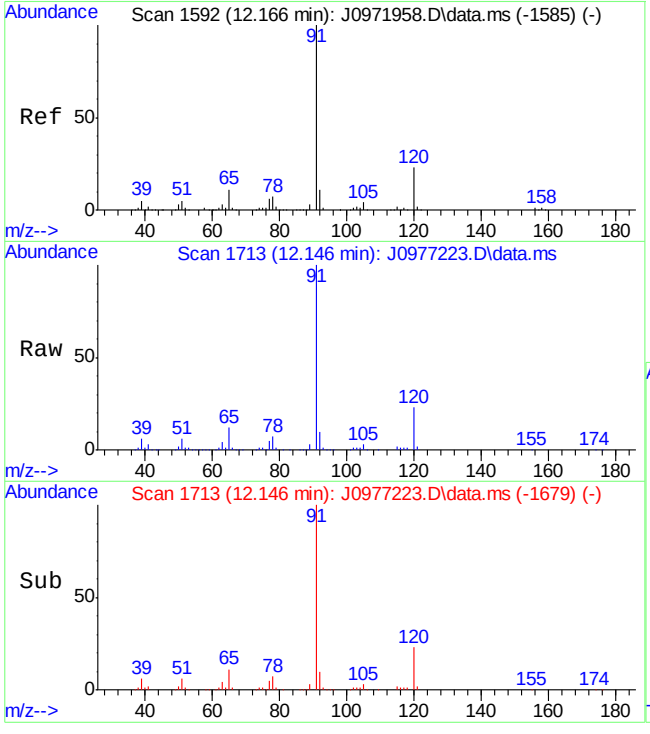


#77
Isopropylbenzene
Concen: 31.76 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977223.D
Acq: 16 Jun 2016 11:42 am

Tgt Ion:105 Resp: 447964

Ion	Ratio	Lower	Upper
105	100		
120	26.7	0.0	55.6

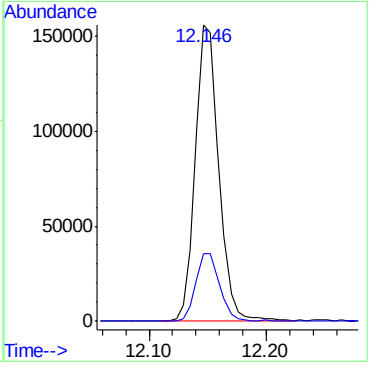


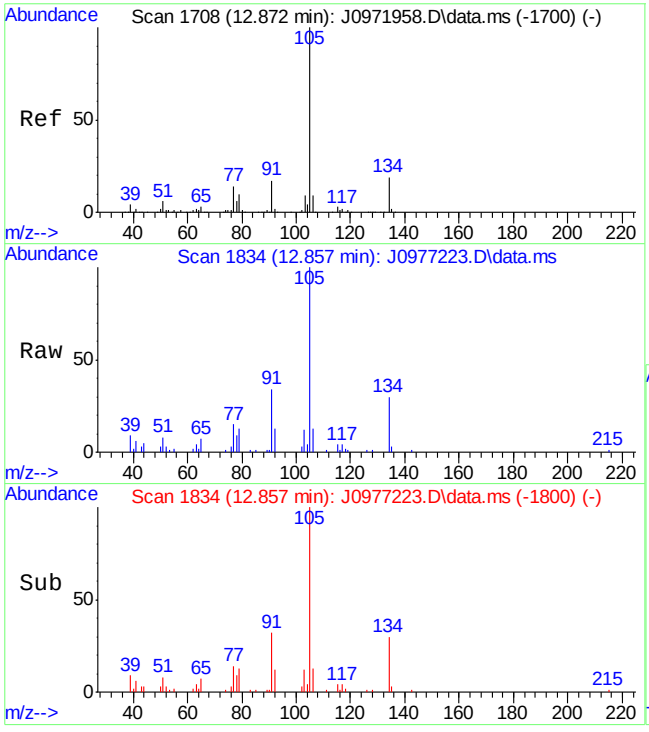


#81
n-Propylbenzene
Concen: 12.17 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.000 min
Lab File: J0977223.D
Acq: 16 Jun 2016 11:42 am

Tgt Ion: 91 Resp: 220351

Ion	Ratio	Lower	Upper
91	100		
120	22.7	0.0	51.6

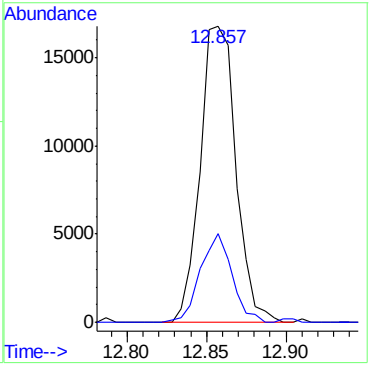


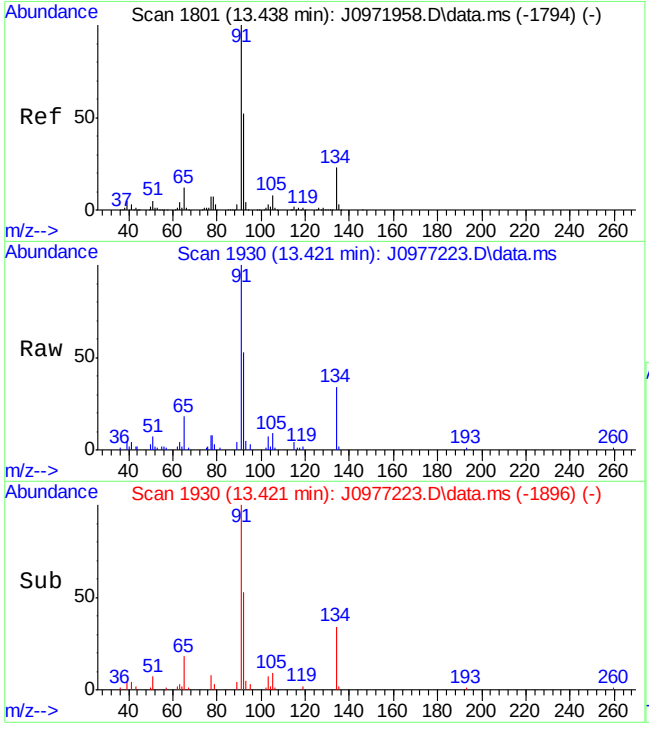


#94
sec-Butylbenzene
Concen: 1.71 ug/L
RT: 12.857 min Scan# 1834
Delta R.T. 0.000 min
Lab File: J0977223.D
Acq: 16 Jun 2016 11:42 am

Tgt Ion:105 Resp: 26308

Ion	Ratio	Lower	Upper
105	100		
134	29.8	0.0	49.1

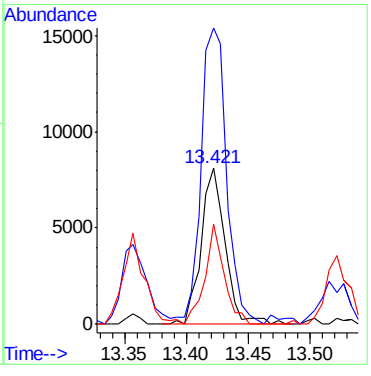


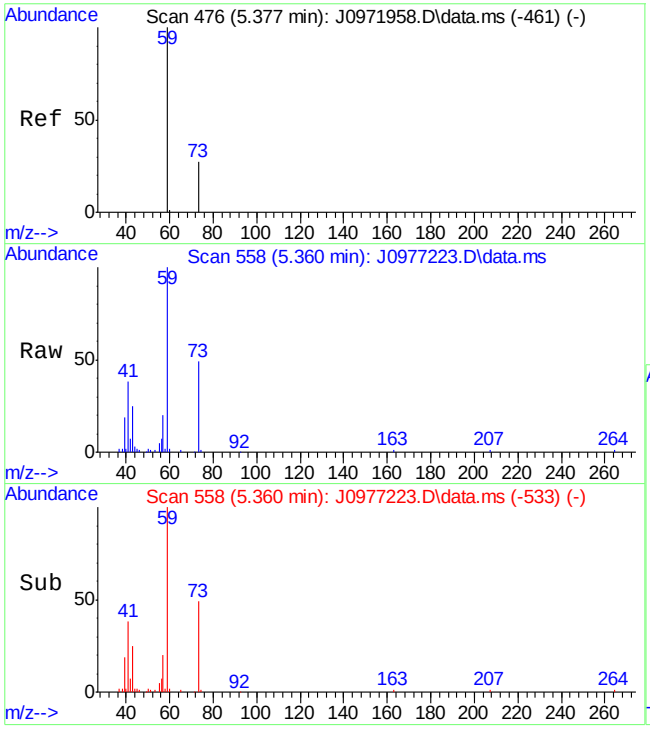


#98
n-Butylbenzene
Concen: 1.46 ug/L
RT: 13.421 min Scan# 1930
Delta R.T. 0.000 min
Lab File: J0977223.D
Acq: 16 Jun 2016 11:42 am

Tgt Ion: 92 Resp: 10901

Ion	Ratio	Lower	Upper
92	100		
91	186.1	183.1	243.1
134	62.0	17.1	77.1

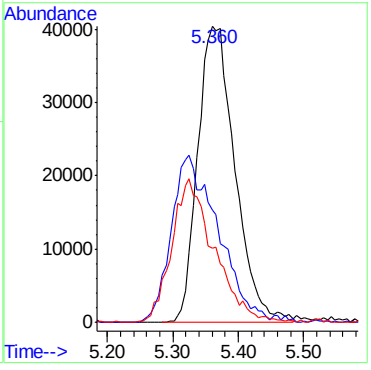




#109
Tert Butyl Alcohol
Concen: 714.62 ug/L
RT: 5.360 min Scan# 558
Delta R.T. -0.006 min
Lab File: J0977223.D
Acq: 16 Jun 2016 11:42 am

Tgt Ion: 59 Resp: 160048

Ion	Ratio	Lower	Upper
59	100		
41	36.9	35.7	75.7
43	24.6	21.4	61.4



SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977224.D
Acq On : 16 Jun 2016 12:05 pm
Operator : darshnap
Sample : fa34748-2 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:42:22 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

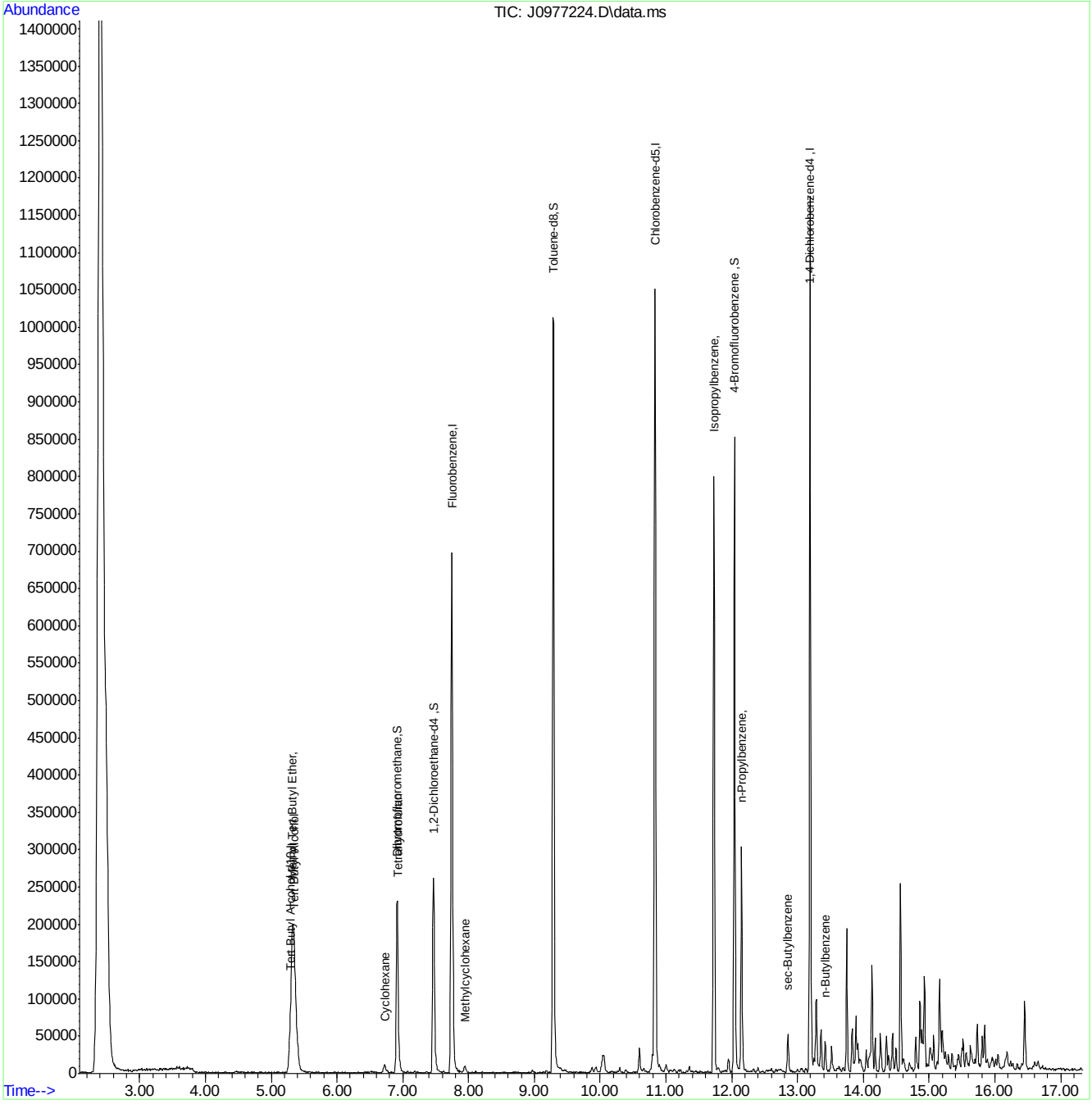
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	605437	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	454976	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	242439	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	42474	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	150746	50.56	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.12%			
46) 1,2-Dichloroethane-d4	7.469	65	189551	49.82	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.64%			
57) Toluene-d8	9.285	98	590482	48.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.66%			
79) 4-Bromofluorobenzene	12.041	95	238394	52.63	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.26%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.325	73	284274	30.51	ug/L	85
32) Cyclohexane	6.729	56	6851	1.11	ug/L #	83
35) Tetrahydrofuran	6.923	42	3897	5.54	ug/L #	71
49) Methylcyclohexane	7.945	83	2675	0.46	ug/L	79
77) Isopropylbenzene	11.729	105	422869	29.48	ug/L	97
81) n-Propylbenzene	12.146	91	205112	11.47	ug/L	98
94) sec-Butylbenzene	12.857	105	25128	1.65	ug/L	86
98) n-Butylbenzene	13.421	92	9863	1.34	ug/L	96
109) Tert Butyl Alcohol	5.354	59	166703	735.39	ug/L	80

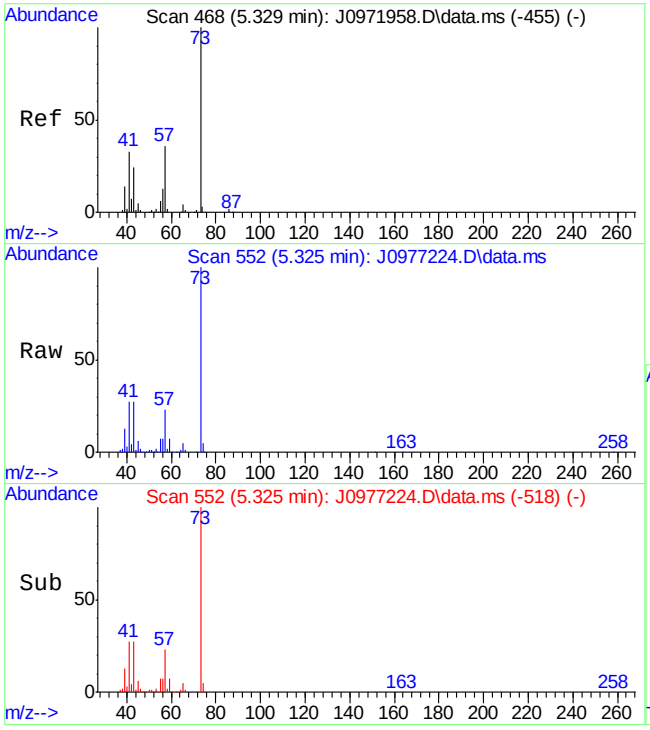
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977224.D
Acq On : 16 Jun 2016 12:05 pm
Operator : darshnap
Sample : fa34748-2 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:42:22 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

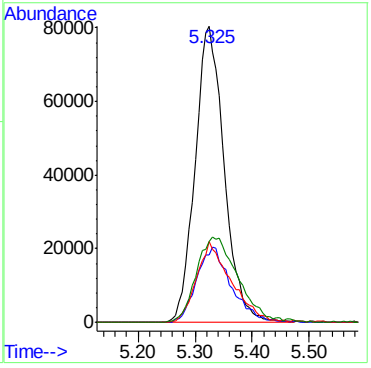


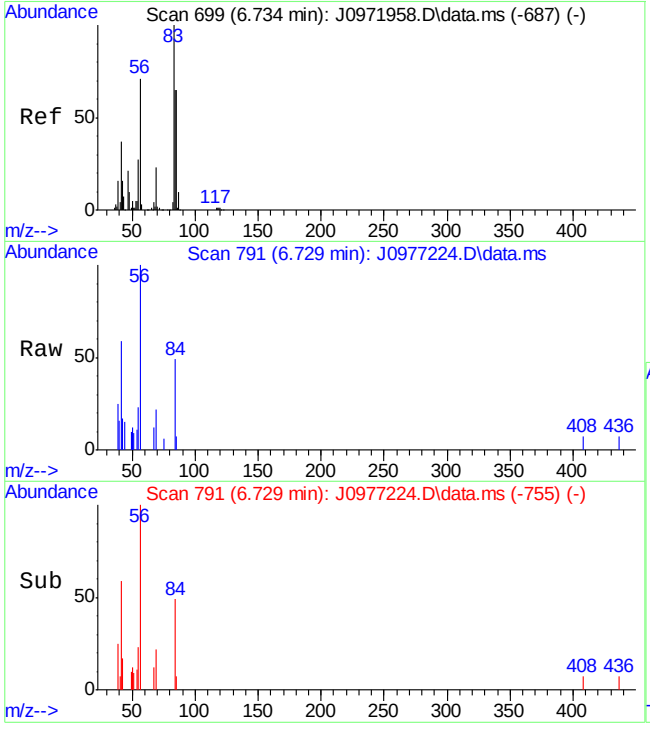


#21
Methyl Tert Butyl Ether
Concen: 30.51 ug/L
RT: 5.325 min Scan# 552
Delta R.T. -0.000 min
Lab File: J0977224.D
Acq: 16 Jun 2016 12:05 pm

Tgt Ion: 73 Resp: 284274

Ion	Ratio	Lower	Upper
73	100		
57	22.8	6.8	66.8
43	27.5	0.2	60.2
41	27.5	5.6	65.6

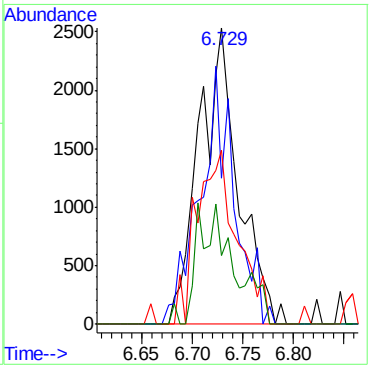


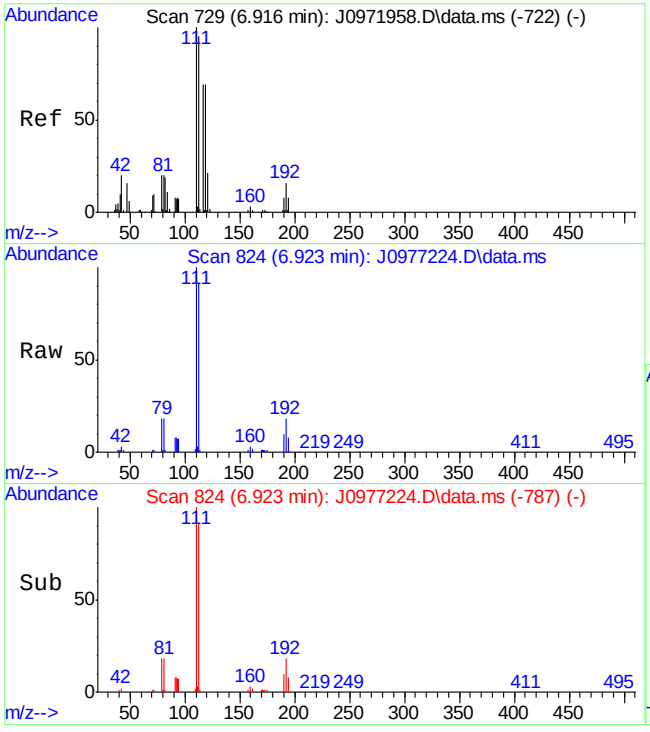


#32
Cyclohexane
Concen: 1.11 ug/L
RT: 6.729 min Scan# 791
Delta R.T. 0.012 min
Lab File: J0977224.D
Acq: 16 Jun 2016 12:05 pm

Tgt Ion: 56 Resp: 6851

Ion	Ratio	Lower	Upper
56	100		
84	49.4	51.4	91.4#
41	58.6	35.4	75.4
55	23.1	13.8	53.8

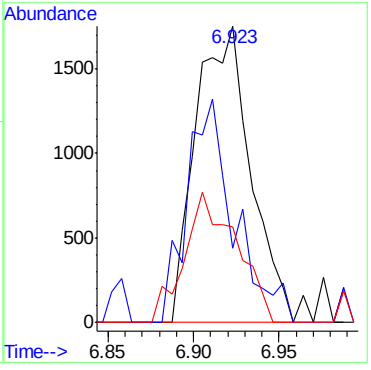


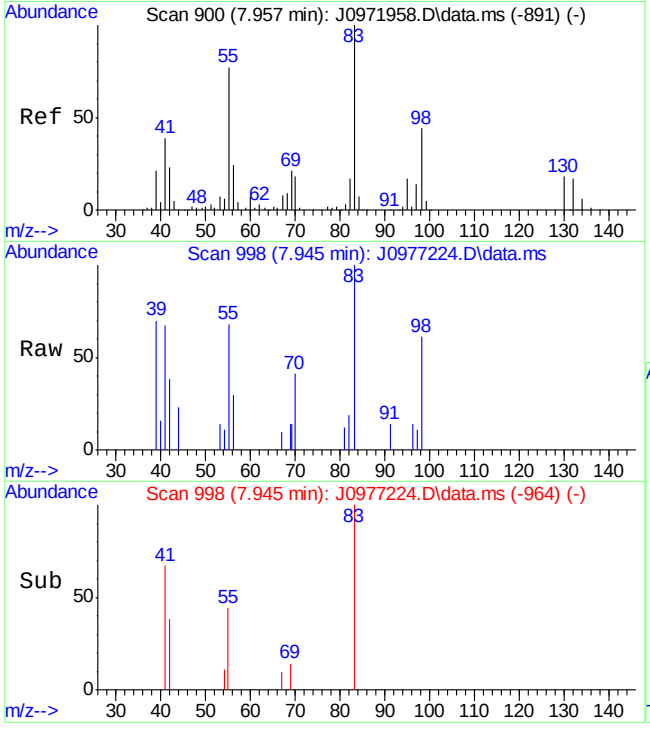


#35
Tetrahydrofuran
Concen: 5.54 ug/L
RT: 6.923 min Scan# 824
Delta R.T. 0.018 min
Lab File: J0977224.D
Acq: 16 Jun 2016 12:05 pm

Tgt Ion: 42 Resp: 3897

Ion	Ratio	Lower	Upper
42	100		
41	25.0	31.8	71.8#
72	32.1	24.5	64.5

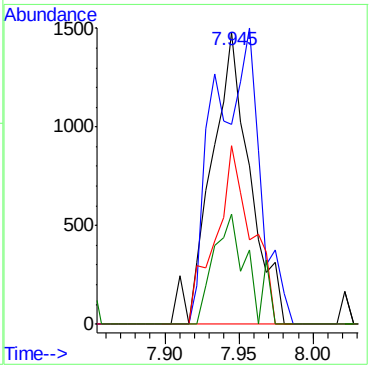




#49
Methylcyclohexane
Concen: 0.46 ug/L
RT: 7.945 min Scan# 998
Delta R.T. 0.000 min
Lab File: J0977224.D
Acq: 16 Jun 2016 12:05 pm

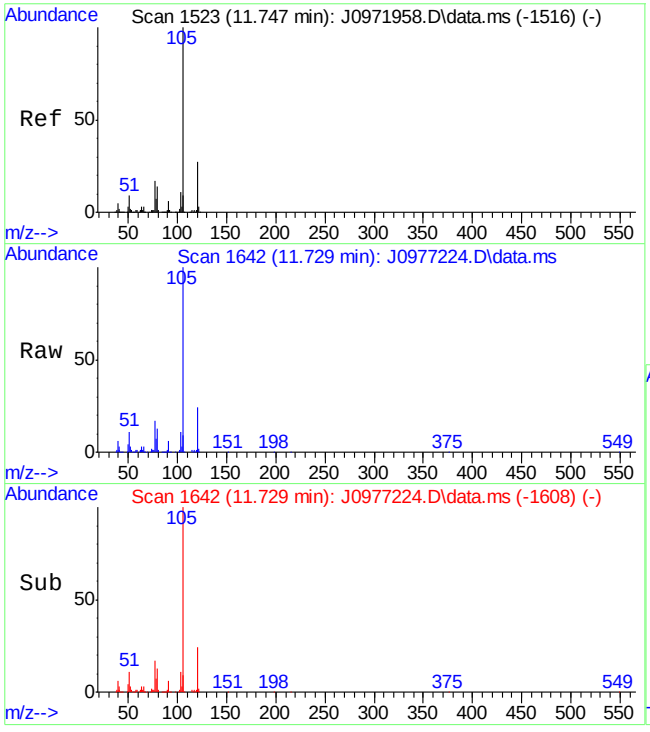
Tgt Ion: 83 Resp: 2675

Ion	Ratio	Lower	Upper
83	100		
55	68.3	66.2	106.2
98	61.2	22.7	62.7
42	37.8	9.2	49.2



7.1.2

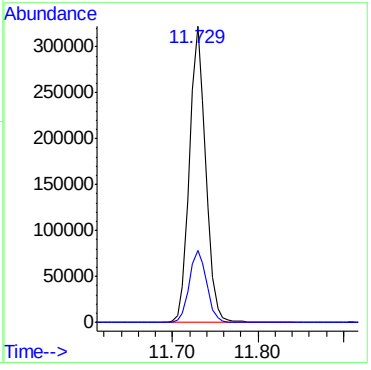
7

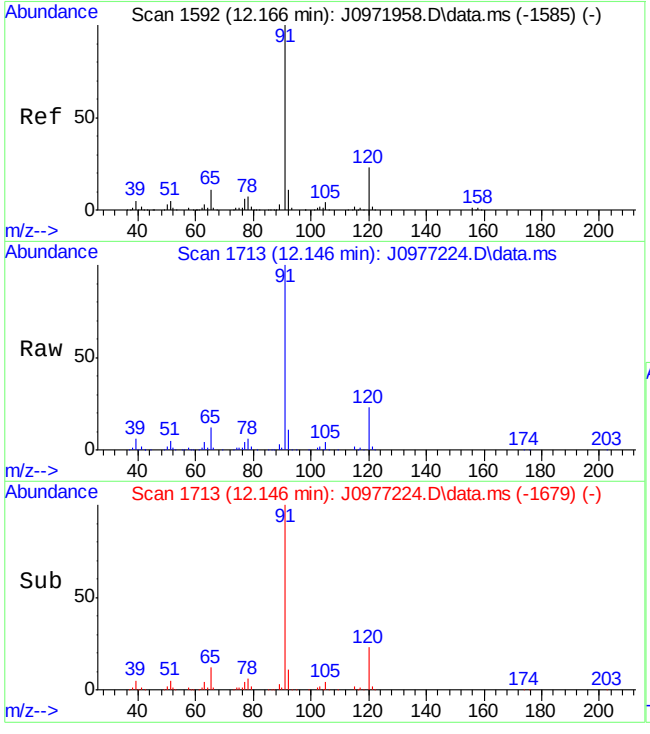


#77
Isopropylbenzene
Concen: 29.48 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977224.D
Acq: 16 Jun 2016 12:05 pm

Tgt Ion:105 Resp: 422869

Ion	Ratio	Lower	Upper
105	100		
120	24.3	0.0	55.6

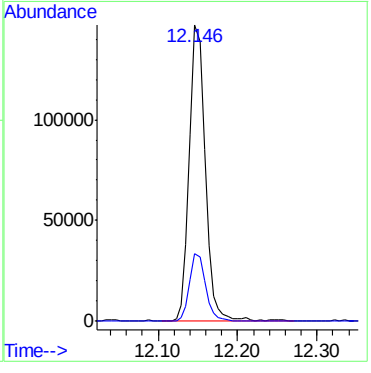


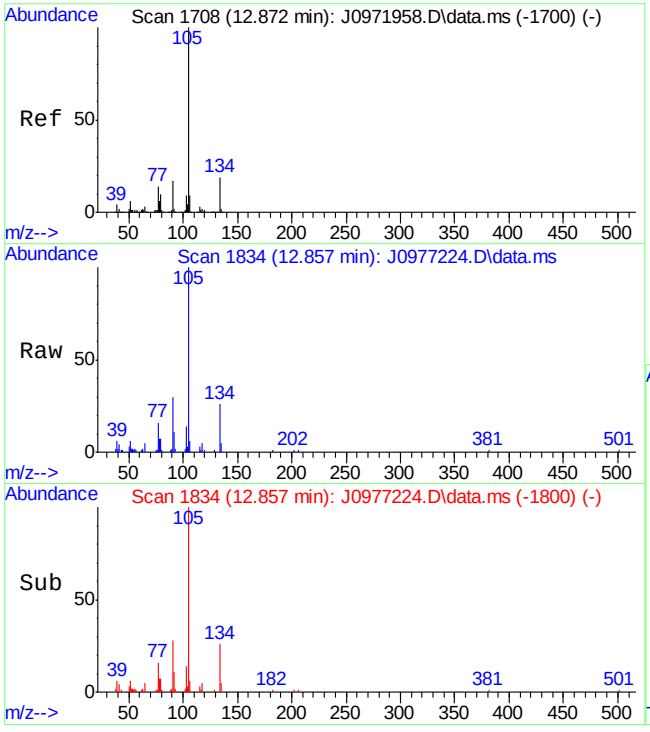


#81
n-Propylbenzene
Concen: 11.47 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.000 min
Lab File: J0977224.D
Acq: 16 Jun 2016 12:05 pm

Tgt Ion: 91 Resp: 205112

Ion	Ratio	Lower	Upper
91	100		
120	22.7	0.0	51.6

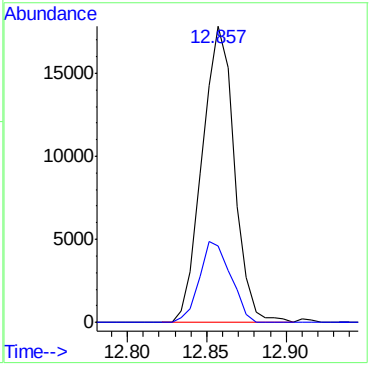


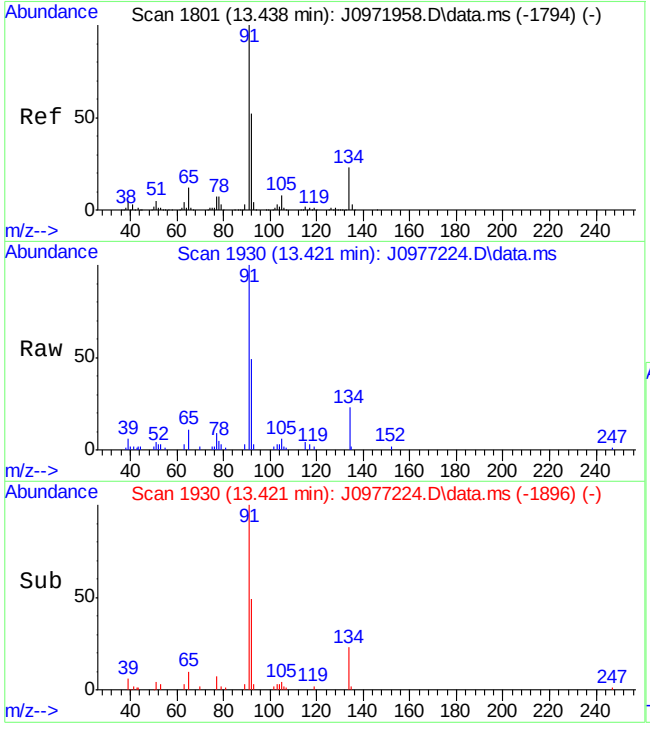


#94
sec-Butylbenzene
Concen: 1.65 ug/L
RT: 12.857 min Scan# 1834
Delta R.T. 0.000 min
Lab File: J0977224.D
Acq: 16 Jun 2016 12:05 pm

Tgt Ion:105 Resp: 25128

Ion	Ratio	Lower	Upper
105	100		
134	25.6	0.0	49.1

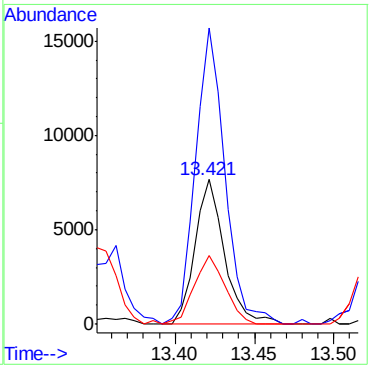


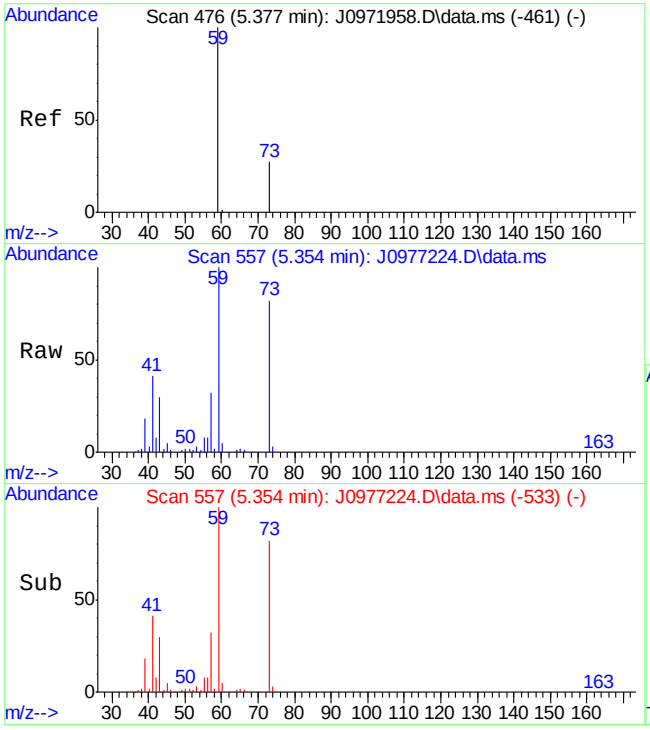


#98
n-Butylbenzene
Concen: 1.34 ug/L
RT: 13.421 min Scan# 1930
Delta R.T. 0.000 min
Lab File: J0977224.D
Acq: 16 Jun 2016 12:05 pm

Tgt Ion: 92 Resp: 9863

Ion	Ratio	Lower	Upper
92	100		
91	205.0	183.1	243.1
134	47.5	17.1	77.1

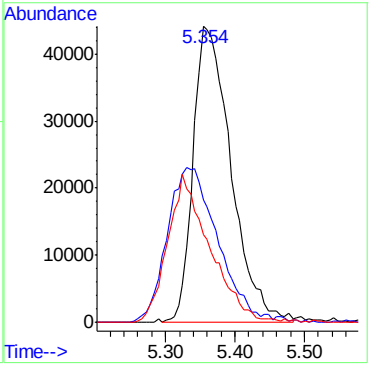




#109
Tert Butyl Alcohol
Concen: 735.39 ug/L
RT: 5.354 min Scan# 557
Delta R.T. -0.012 min
Lab File: J0977224.D
Acq: 16 Jun 2016 12:05 pm

Tgt Ion: 59 Resp: 166703

Ion	Ratio	Lower	Upper
59	100		
41	40.5	35.7	75.7
43	28.9	21.4	61.4



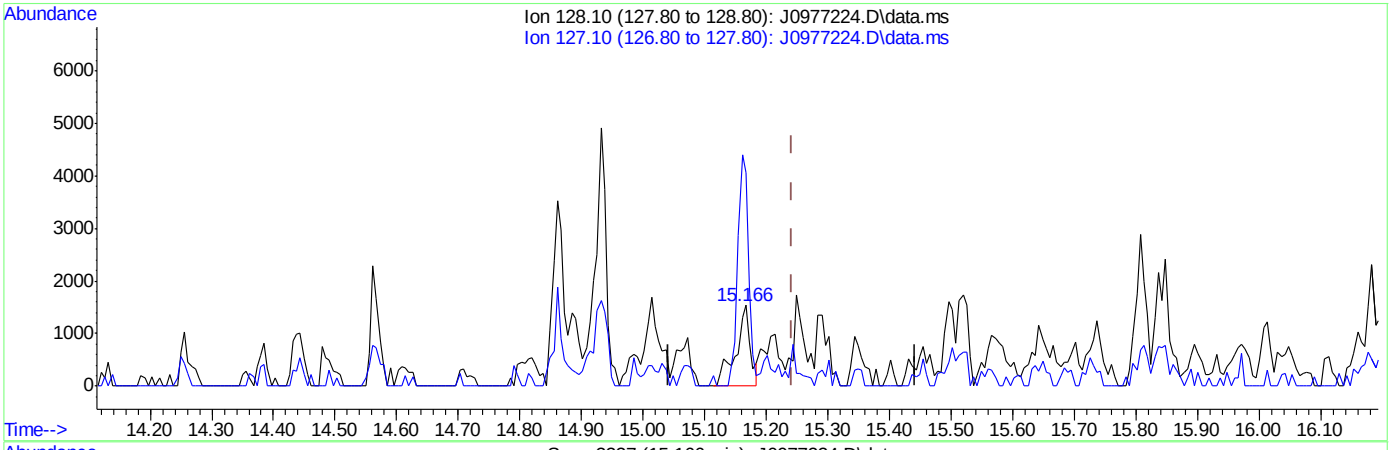
7.1.2

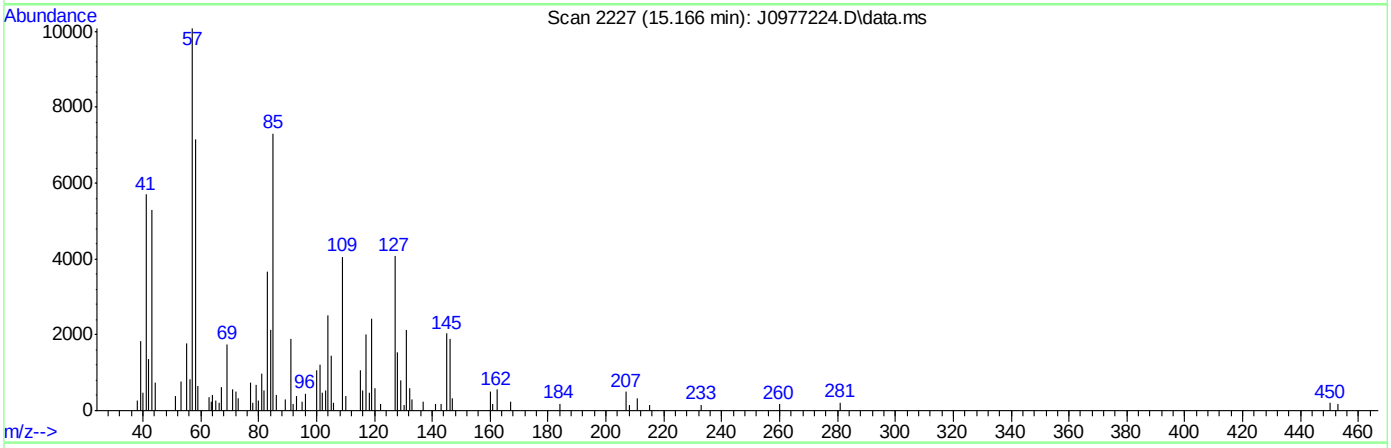
7

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977224.D
Acq On : 16 Jun 2016 12:05 pm
Operator : darshnap
Sample : fa34748-2 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:10:07 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977224.D\data.ms

(104) Naphthalene ( )

15.166min (-0.077) 0.43ug/L

response 2532

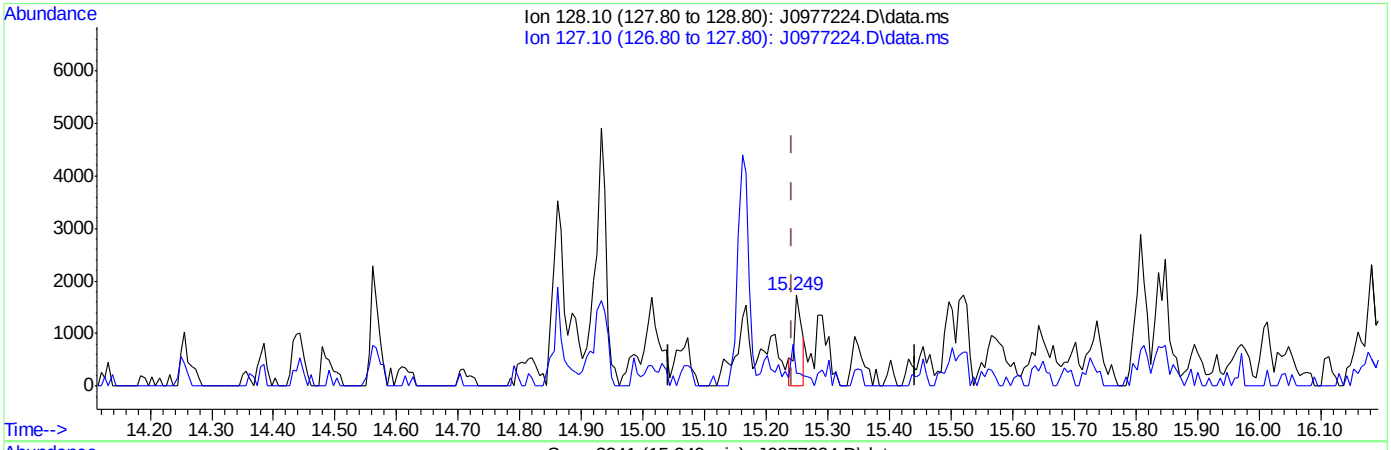
Ion	Exp%	Act%
128.10	100	100
127.10	11.70	251.98#
0.00	0.00	0.00
0.00	0.00	0.00

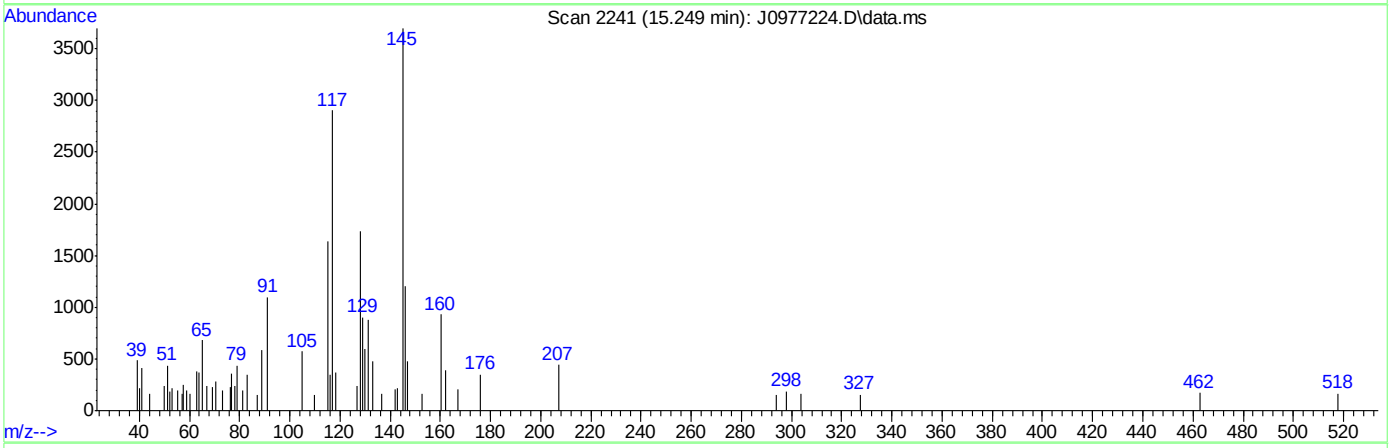
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977224.D
Acq On : 16 Jun 2016 12:05 pm
Operator : darshnap
Sample : fa34748-2 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:10:07 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977224.D\data.ms

(104) Naphthalene ( )

15.249min (+0.006) 0.26ug/L m

response 1563

Ion	Exp%	Act%
128.10	100	100
127.10	11.70	13.69
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977225.D
Acq On : 16 Jun 2016 12:28 pm
Operator : darshnap
Sample : fa34748-3 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 13:42:56 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	591573	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	436733	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	232662	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	40160	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	150388	51.62	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.24%			
46) 1,2-Dichloroethane-d4	7.469	65	187356	50.39	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.78%			
57) Toluene-d8	9.285	98	579739	49.94	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.88%			
79) 4-Bromofluorobenzene	12.041	95	223236	51.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.72%			

Target Compounds Qvalue

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

7.1.3

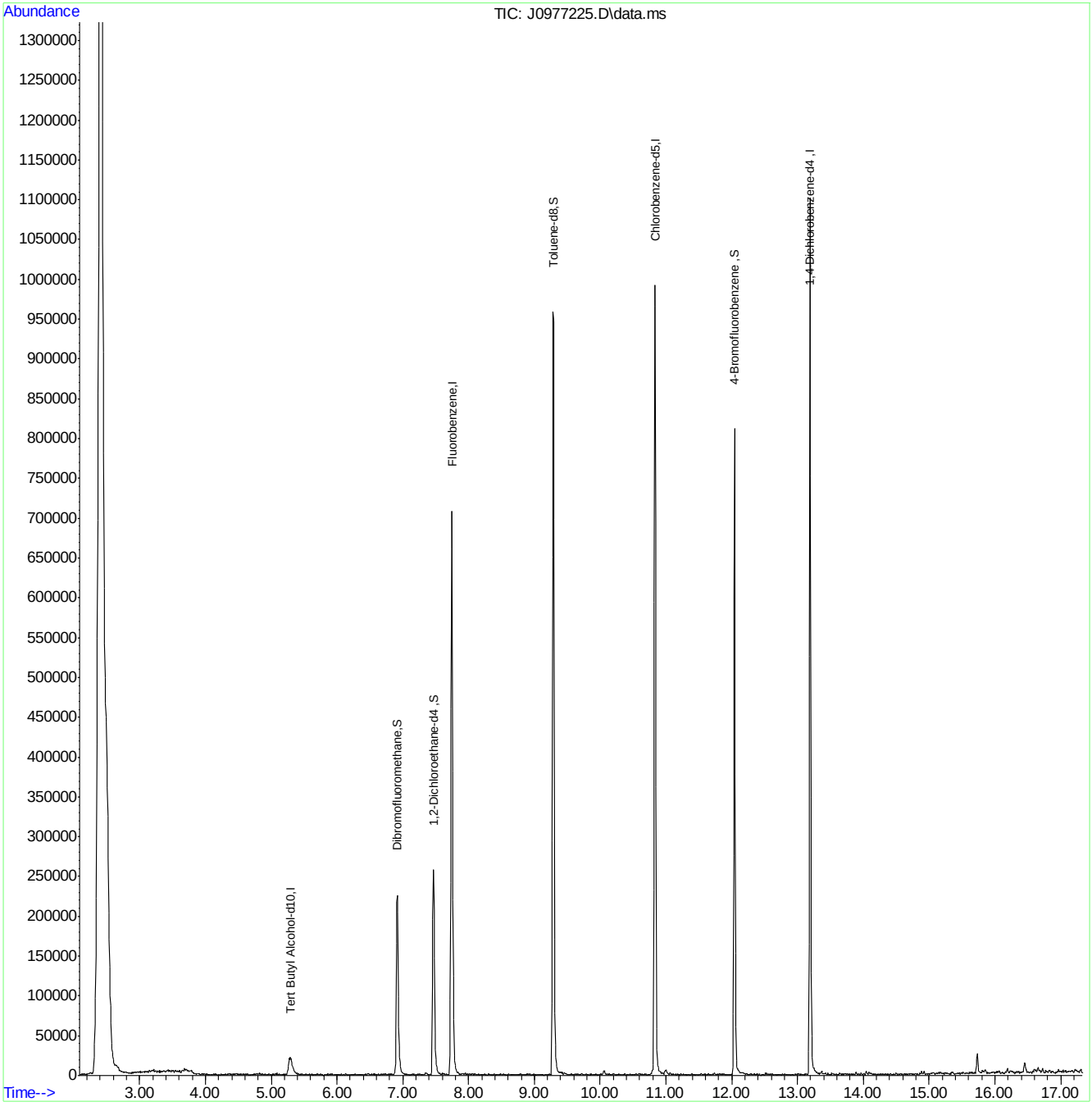
7

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977225.D
Acq On : 16 Jun 2016 12:28 pm
Operator : darshnap
Sample : fa34748-3 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 13:42:56 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

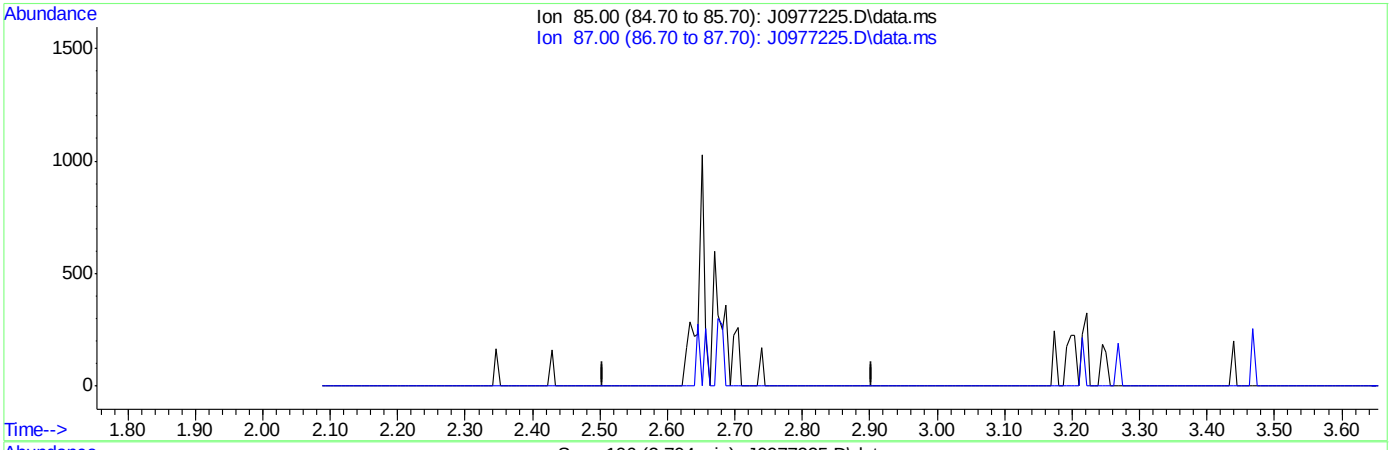


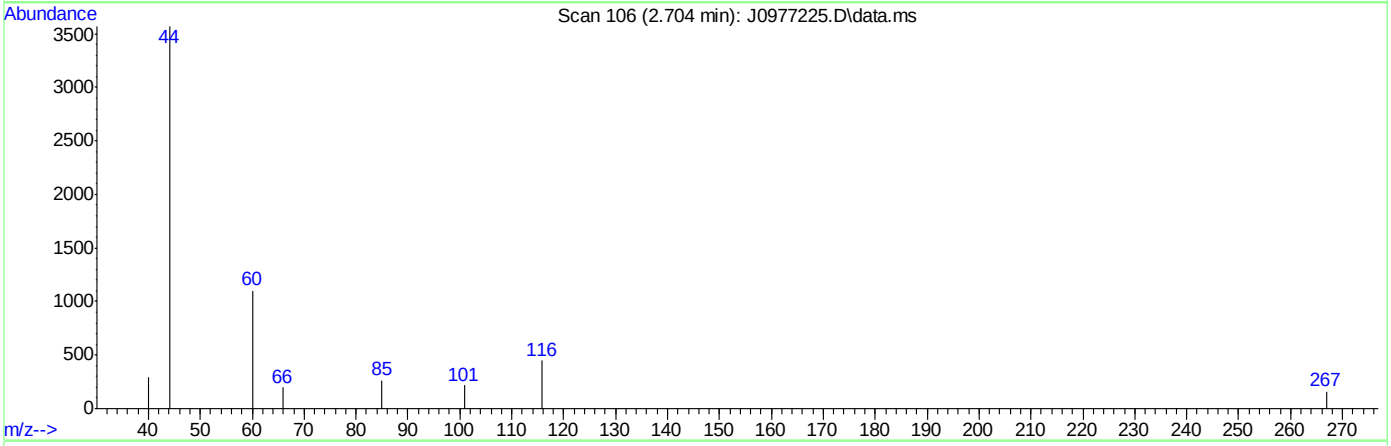
MSJ061416a.M Fri Jun 17 12:21:35 2016 Page: 2

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977225.D
Acq On : 16 Jun 2016 12:28 pm
Operator : darshnap
Sample : fa34748-3 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 13:10:09 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977225.D\data.ms

(2) Dichlorodifluoromethane ( )

2.704min 0.00ug/L d

response 0

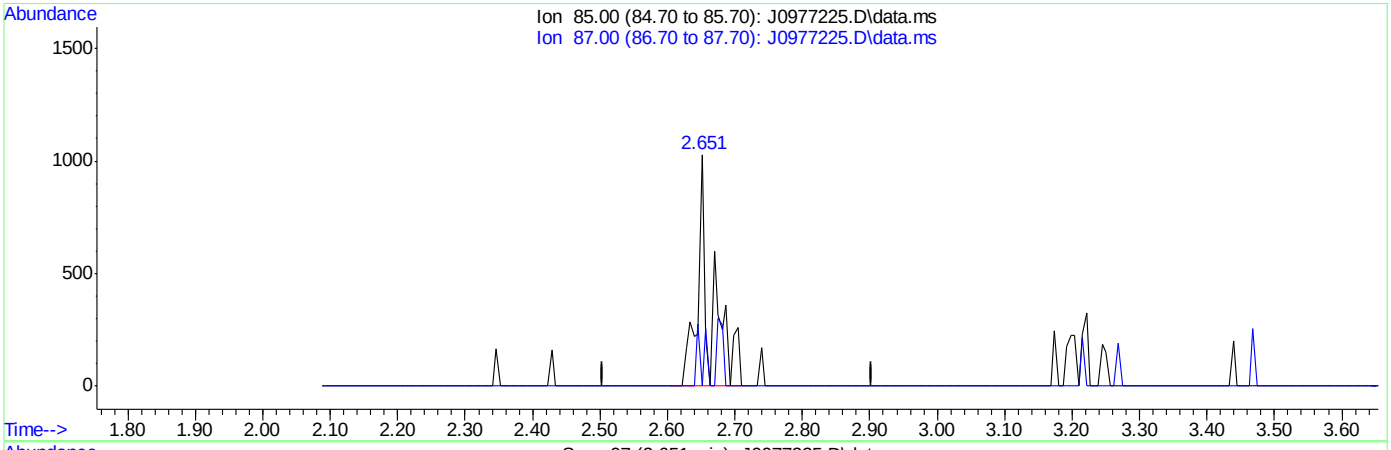
Ion	Exp%	Act%
85.00	100	0.00
87.00	26.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

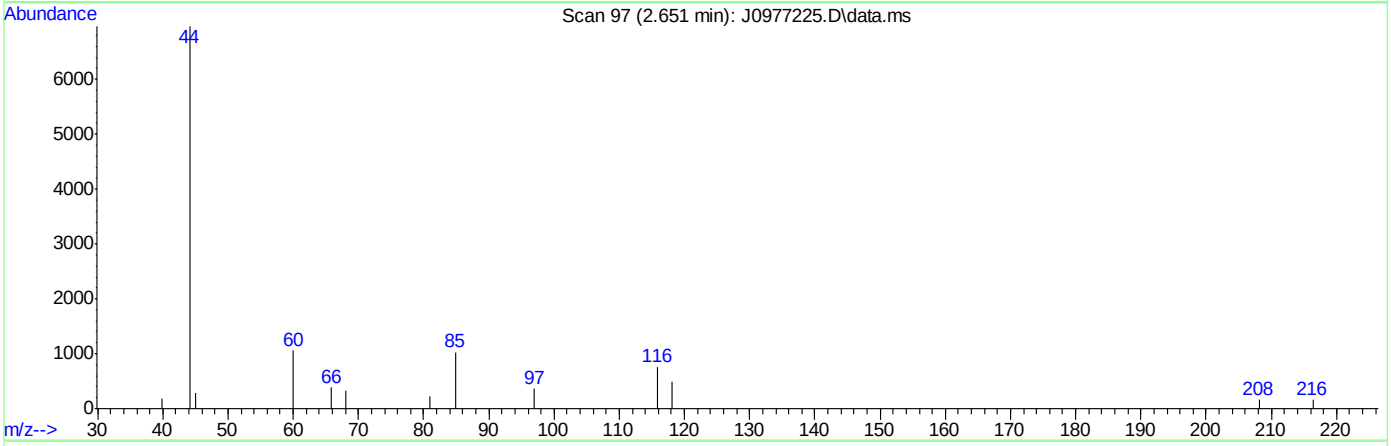
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977225.D
Acq On : 16 Jun 2016 12:28 pm
Operator : darshnap
Sample : fa34748-3 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 16 13:10:09 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977225.D\data.ms

(2) Dichlorodifluoromethane ( )

2.651min (-0.053) 0.57ug/L m

response 1469

Ion	Exp%	Act%
85.00	100	100
87.00	26.20	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977226.D
Acq On : 16 Jun 2016 12:51 pm
Operator : darshnap
Sample : fa34748-4 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 16 13:43:24 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

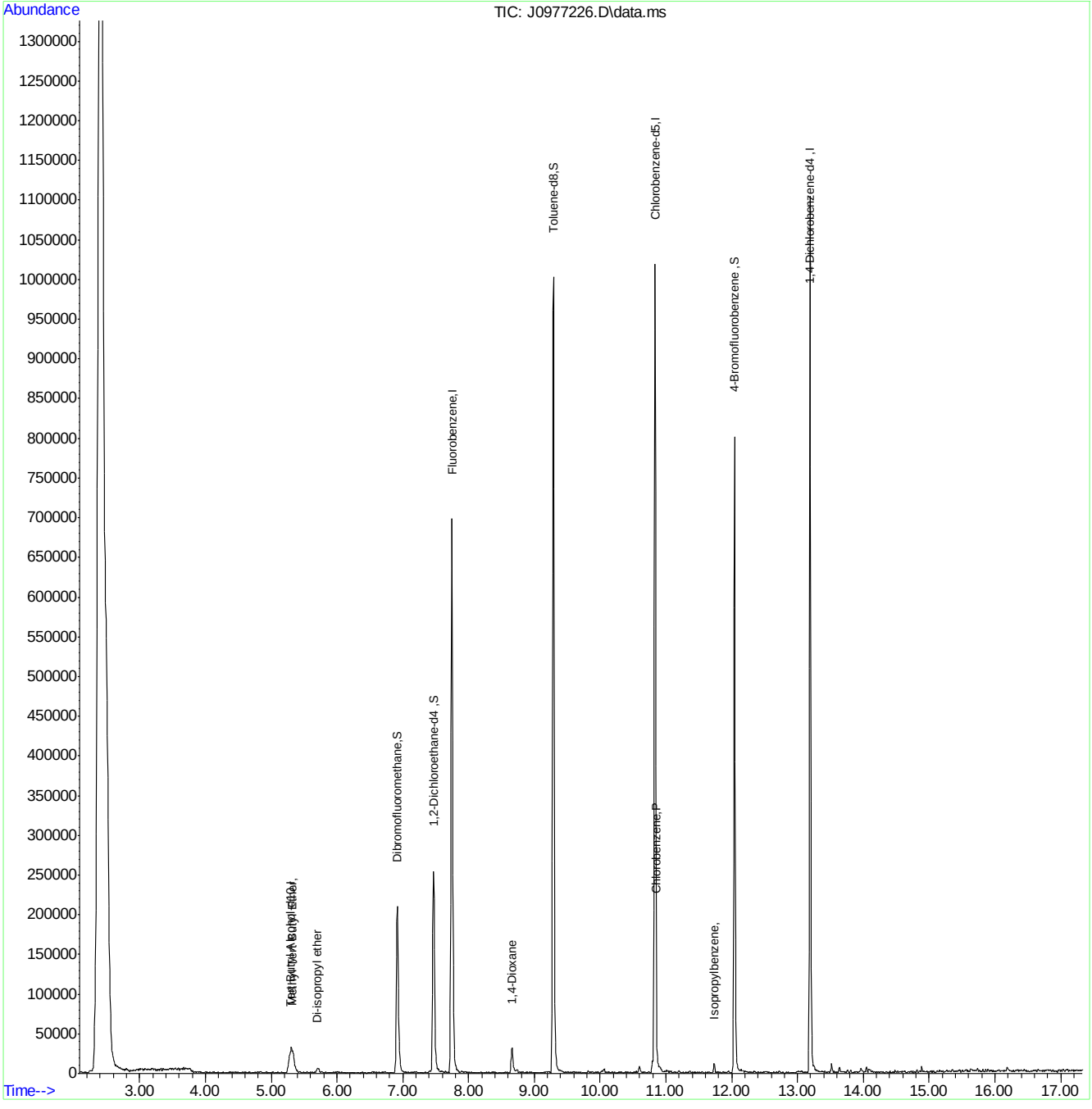
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	591653	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	442444	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	227857	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.295	65	39627	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	144097	49.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.92%			
46) 1,2-Dichloroethane-d4	7.469	65	188297	50.64	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.28%			
57) Toluene-d8	9.291	98	589731	50.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.30%			
79) 4-Bromofluorobenzene	12.041	95	226075	53.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.22%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.325	73	28914	3.18	ug/L	89
23) Di-isopropyl ether	5.701	45	6753	0.54	ug/L	96
71) Chlorobenzene	10.854	112	4326	0.48	ug/L	94
77) Isopropylbenzene	11.729	105	6579	0.47	ug/L	96
112) 1,4-Dioxane	8.662	88	21031	1258.49	ug/L	87

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

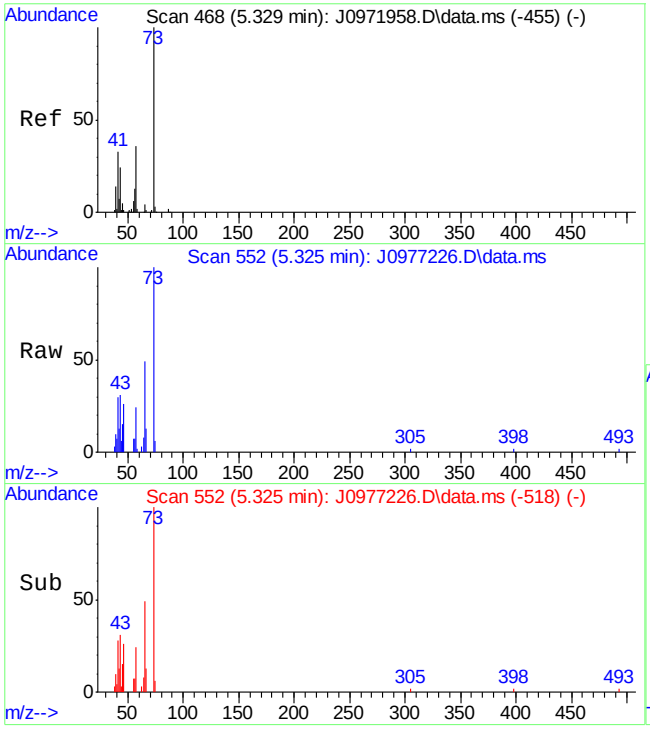
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977226.D
Acq On : 16 Jun 2016 12:51 pm
Operator : darshnap
Sample : fa34748-4 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 16 13:43:24 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



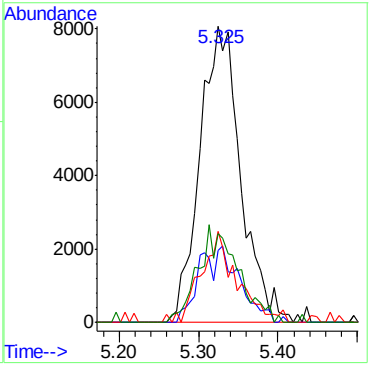
MSJ061416a.M Fri Jun 17 12:21:37 2016 Page: 2

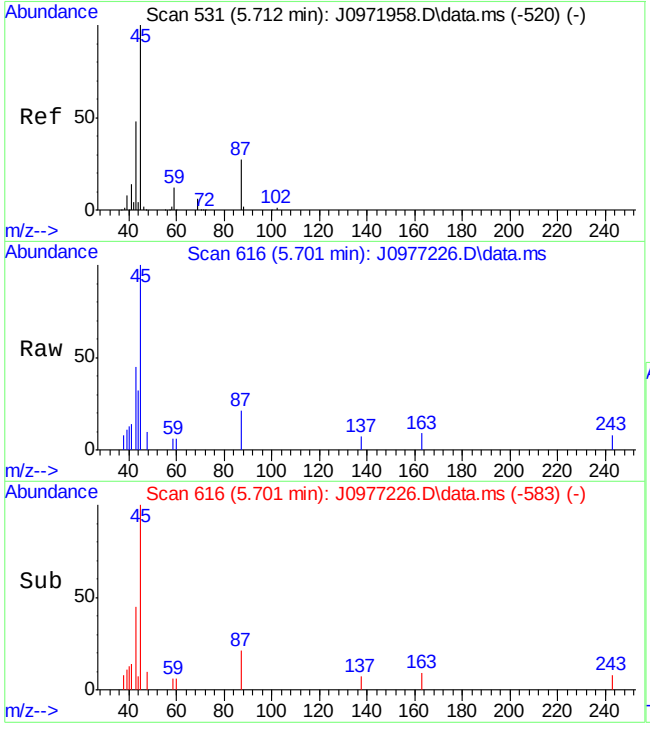


#21
Methyl Tert Butyl Ether
Concen: 3.18 ug/L
RT: 5.325 min Scan# 552
Delta R.T. -0.000 min
Lab File: J0977226.D
Acq: 16 Jun 2016 12:51 pm

Tgt Ion: 73 Resp: 28914

Ion	Ratio	Lower	Upper
73	100		
57	24.2	6.8	66.8
43	30.6	0.2	60.2
41	30.1	5.6	65.6

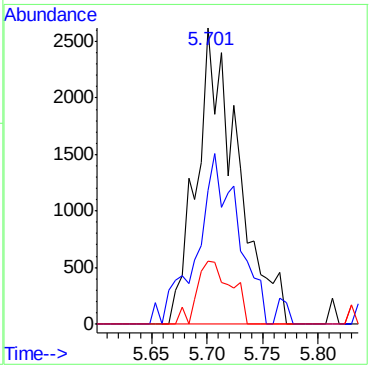




#23
Di-isopropyl ether
Concen: 0.54 ug/L
RT: 5.701 min Scan# 616
Delta R.T. -0.006 min
Lab File: J0977226.D
Acq: 16 Jun 2016 12:51 pm

Tgt Ion: 45 Resp: 6753

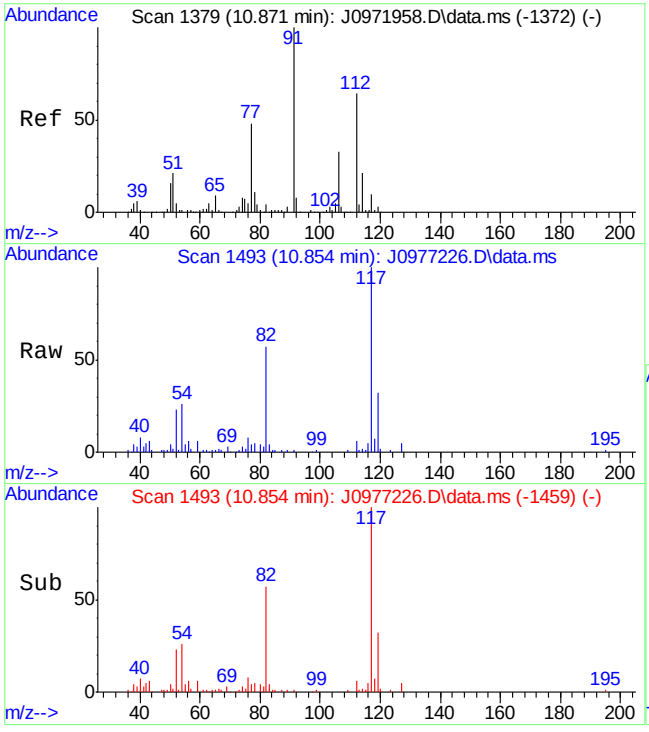
Ion	Ratio	Lower	Upper
45	100		
43	45.2	18.4	78.4
87	21.4	0.0	52.5



7.1.4

7

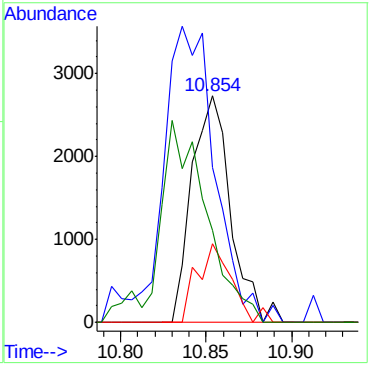
SGS ACCUTEST FA34748

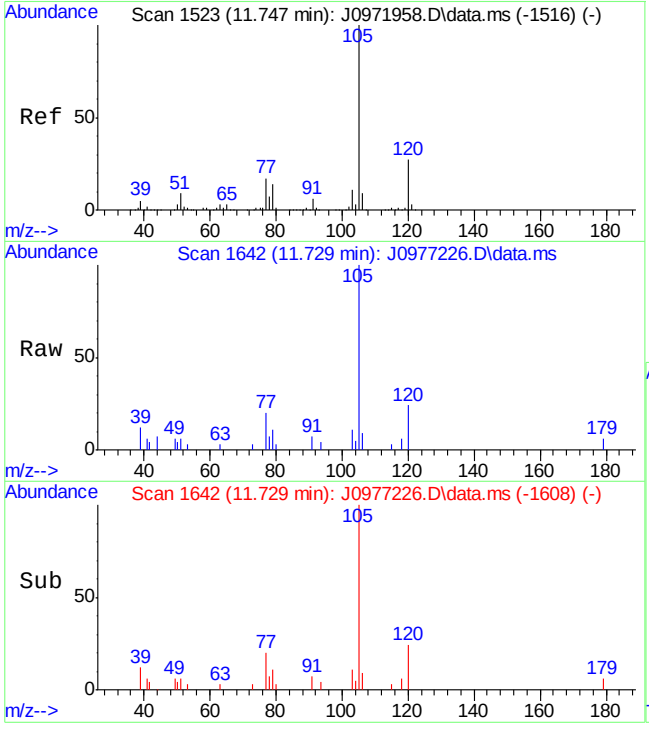


#71
Chlorobenzene
Concen: 0.48 ug/L
RT: 10.854 min Scan# 1493
Delta R.T. -0.000 min
Lab File: J0977226.D
Acq: 16 Jun 2016 12:51 pm

Tgt Ion:112 Resp: 4326

Ion	Ratio	Lower	Upper
112	100		
77	68.4	46.5	106.5
114	34.7	2.2	62.2
51	40.7	12.4	72.4

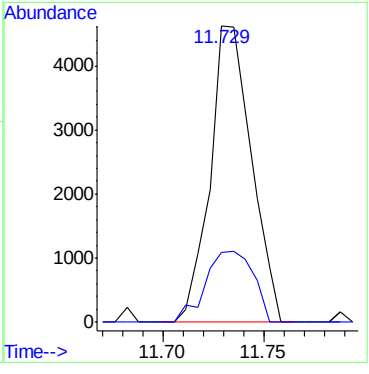


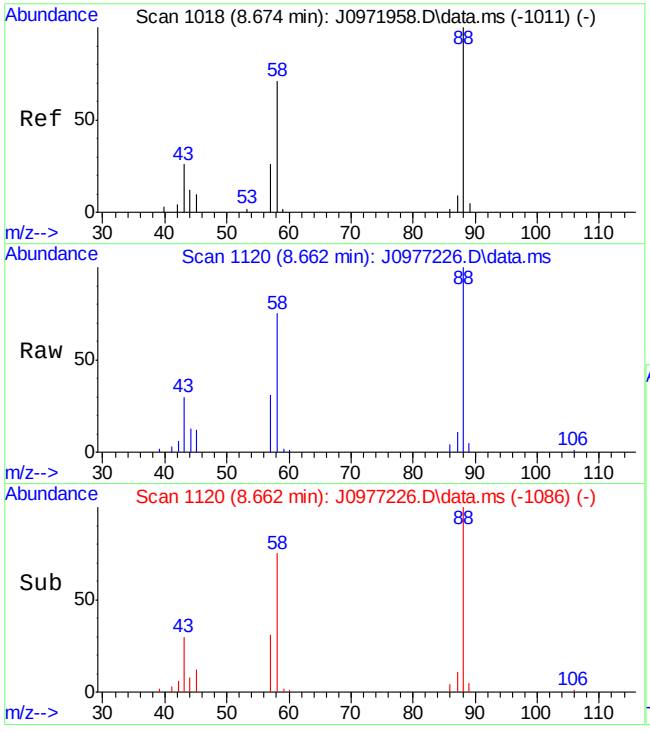


#77
Isopropylbenzene
Concen: 0.47 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977226.D
Acq: 16 Jun 2016 12:51 pm

Tgt Ion:105 Resp: 6579

Ion	Ratio	Lower	Upper
105	100		
120	23.6	0.0	55.6

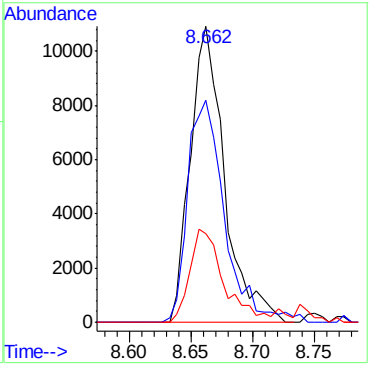




#112
1,4-Dioxane
Concen: 1258.49 ug/L
RT: 8.662 min Scan# 1120
Delta R.T. 0.000 min
Lab File: J0977226.D
Acq: 16 Jun 2016 12:51 pm

Tgt Ion: 88 Resp: 21031

Ion	Ratio	Lower	Upper
88	100		
58	74.9	35.2	95.2
43	29.9	0.0	52.8



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977227.D
Acq On : 16 Jun 2016 1:14 pm
Operator : darshnap
Sample : fa34748-5 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 13:44:20 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	573575	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	428410	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	226102	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	40060	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	143102	50.66	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.32%			
46) 1,2-Dichloroethane-d4	7.469	65	181189	50.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.52%			
57) Toluene-d8	9.291	98	556710	48.89	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.78%			
79) 4-Bromofluorobenzene	12.041	95	220711	52.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.50%			
Target Compounds						Qvalue
23) Di-isopropyl ether	5.695	45	2833	0.23	ug/L	77
77) Isopropylbenzene	11.729	105	654962	48.49	ug/L	99
81) n-Propylbenzene	12.146	91	165691	9.93	ug/L	98

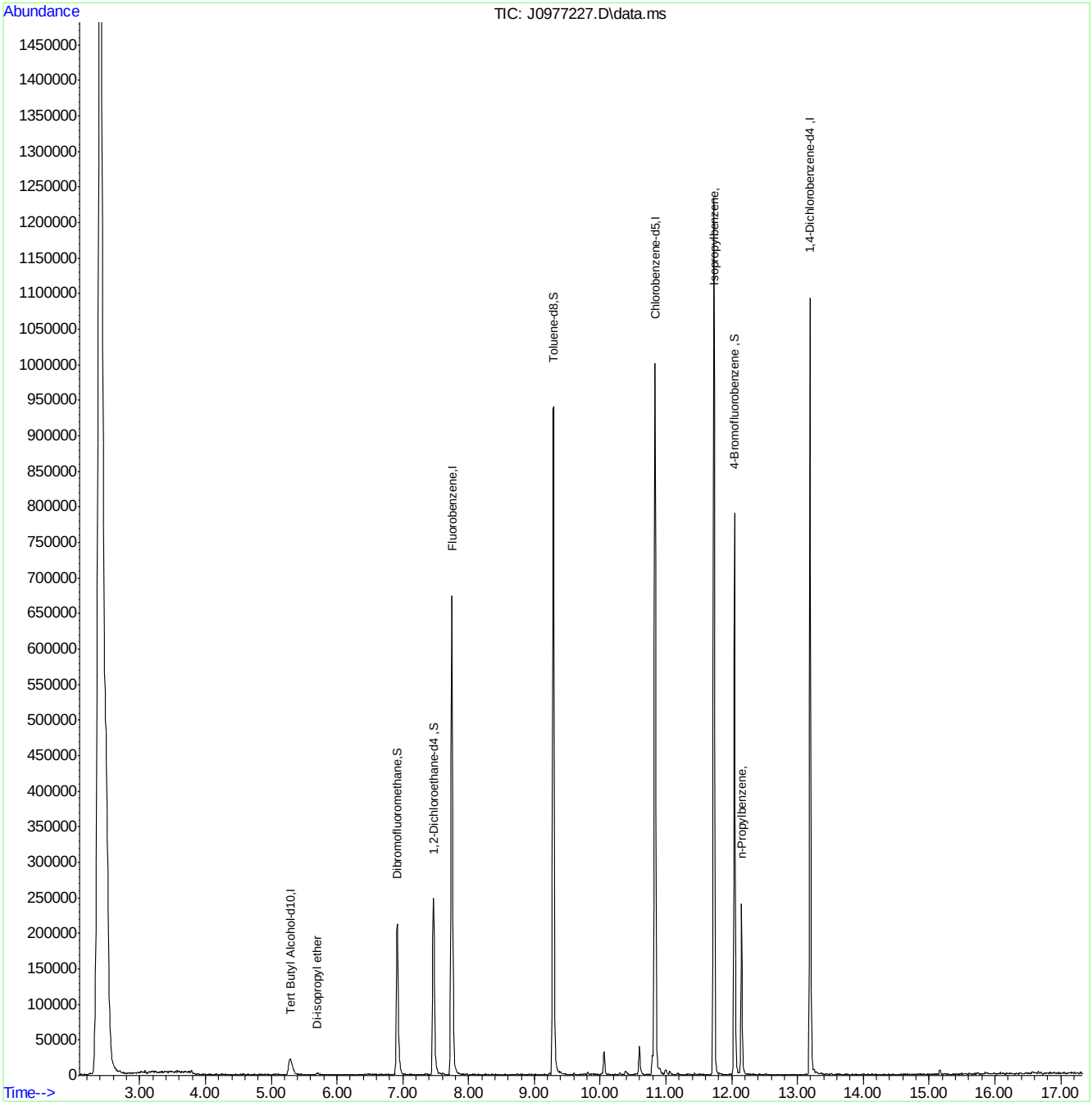
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34748

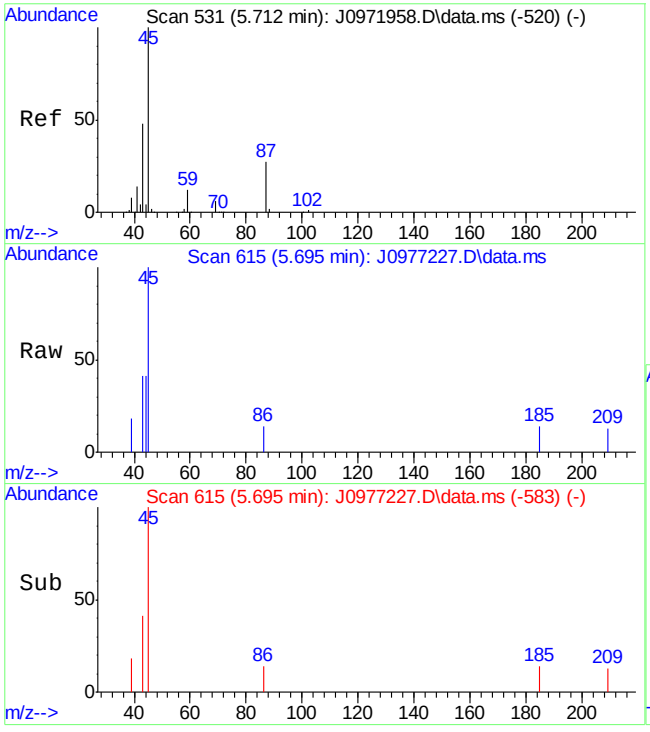
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977227.D
Acq On : 16 Jun 2016 1:14 pm
Operator : darshnap
Sample : fa34748-5 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 16 13:44:20 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



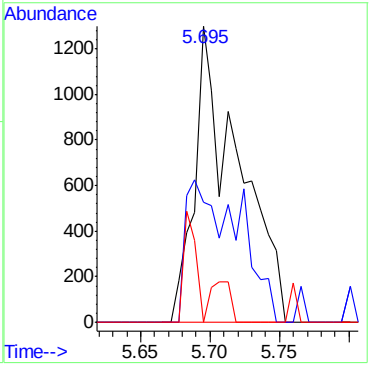
SGS ACCUTEST FA34748

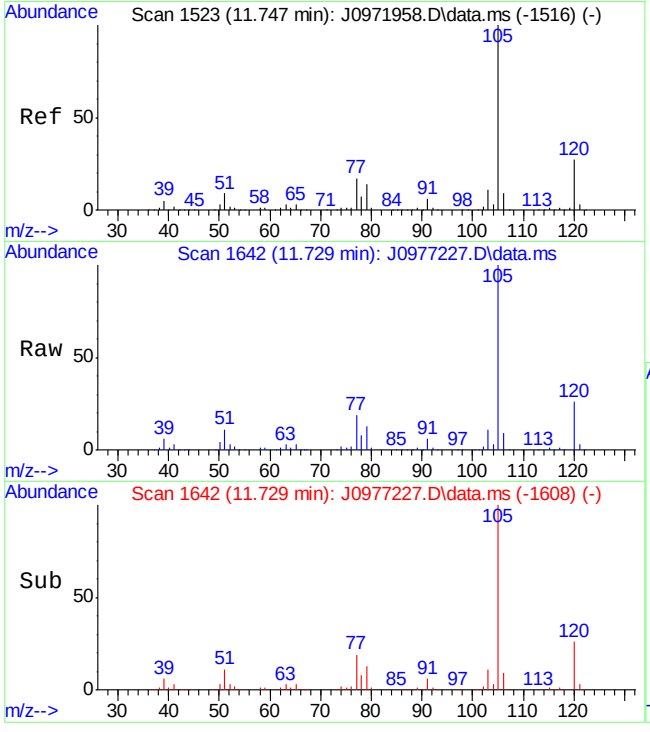


#23
Di-isopropyl ether
Concen: 0.23 ug/L
RT: 5.695 min Scan# 615
Delta R.T. -0.012 min
Lab File: J0977227.D
Acq: 16 Jun 2016 1:14 pm

Tgt Ion: 45 Resp: 2833

Ion	Ratio	Lower	Upper
45	100		
43	40.6	18.4	78.4
87	0.0	0.0	52.5

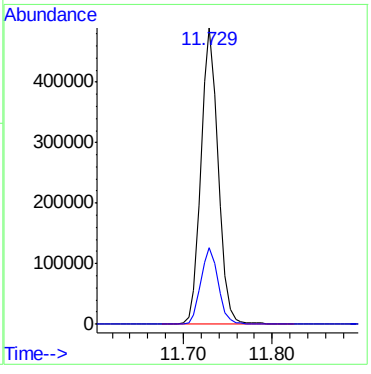




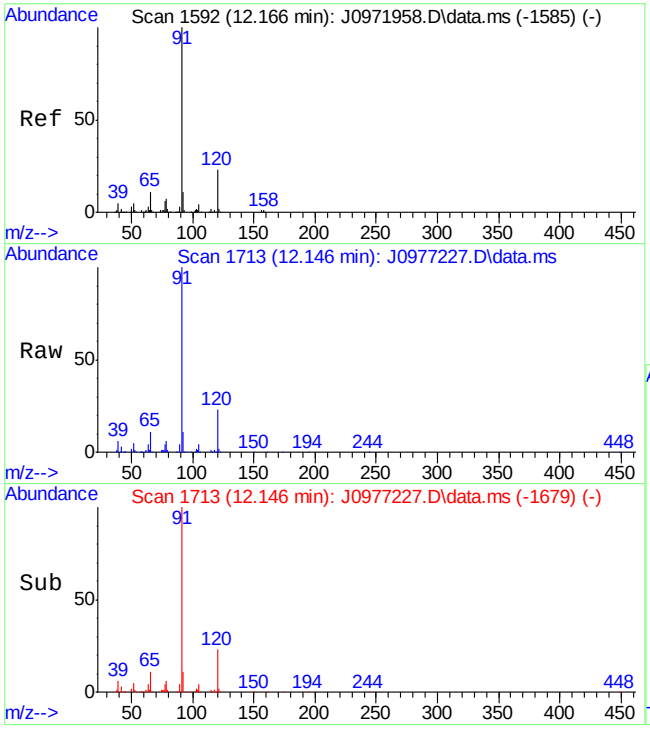
#77
Isopropylbenzene
Concen: 48.49 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977227.D
Acq: 16 Jun 2016 1:14 pm

Tgt Ion:105 Resp: 654962

Ion	Ratio	Lower	Upper
105	100		
120	25.9	0.0	55.6



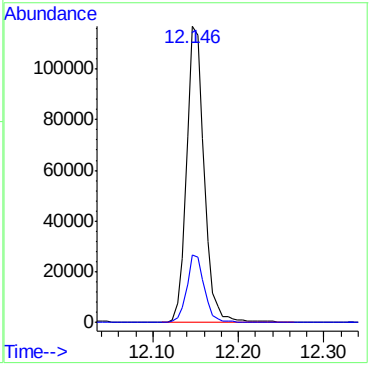
SGS ACCUTEST FA34748



#81
n-Propylbenzene
Concen: 9.93 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.000 min
Lab File: J0977227.D
Acq: 16 Jun 2016 1:14 pm

Tgt Ion: 91 Resp: 165691

Ion	Ratio	Lower	Upper
91	100		
120	22.7	0.0	51.6



SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977228.D
Acq On : 16 Jun 2016 1:37 pm
Operator : darshnap
Sample : fa34748-6 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,5
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 16 14:42:12 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

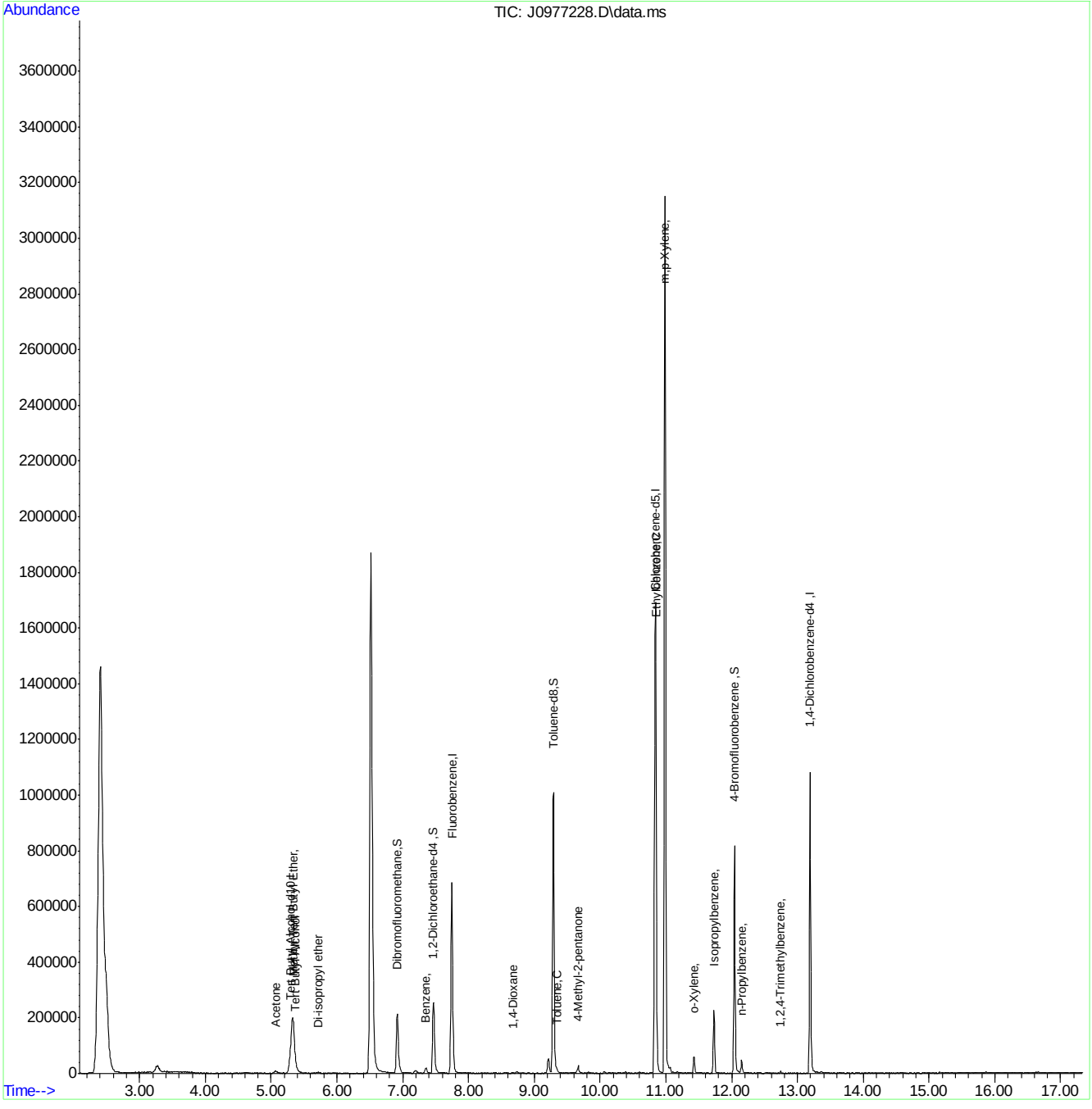
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	585065	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	451803	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	234056	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.296	65	43013	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	146377	50.80	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.60%			
46) 1,2-Dichloroethane-d4	7.464	65	189635	51.57	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.14%			
57) Toluene-d8	9.291	98	584480	48.67	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.34%			
79) 4-Bromofluorobenzene	12.041	95	229554	52.49	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.98%			
Target Compounds						Qvalue
17) Acetone	5.066	58	3432	16.98	ug/L #	66
21) Methyl Tert Butyl Ether	5.331	73	299662	33.28	ug/L	82
23) Di-isopropyl ether	5.713	45	5174	0.42	ug/L	90
44) Benzene	7.352	78	18698	1.43	ug/L	69
58) Toluene	9.344	91	5341	0.37	ug/L	86
60) 4-Methyl-2-pentanone	9.667	43	17600	6.76	ug/L	89
70) Ethylbenzene	10.848	91	550923	32.83	ug/L	96
73) m,p-Xylene	10.983	91	1496560	118.51	ug/L	98
74) o-Xylene	11.424	91	30208	2.38	ug/L	90
77) Isopropylbenzene	11.729	105	118343	8.31	ug/L	98
81) n-Propylbenzene	12.152	91	31041	1.80	ug/L	96
92) 1,2,4-Trimethylbenzene	12.746	105	4039	0.32	ug/L	96
109) Tert Butyl Alcohol	5.366	59	34769	147.24	ug/L #	60
112) 1,4-Dioxane	8.674	88	1156	60.87	ug/L	82

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

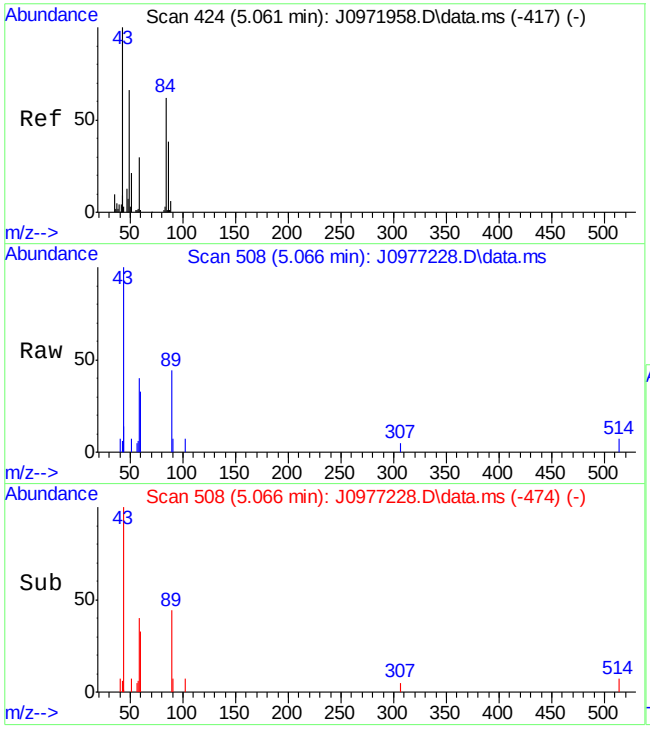
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977228.D
Acq On : 16 Jun 2016 1:37 pm
Operator : darshnap
Sample : fa34748-6 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,5
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 16 14:42:12 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



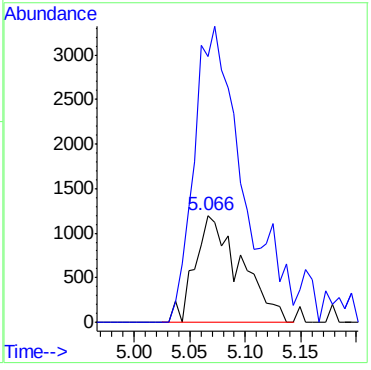
MSJ061416a.M Fri Jun 17 12:21:41 2016 Page: 2

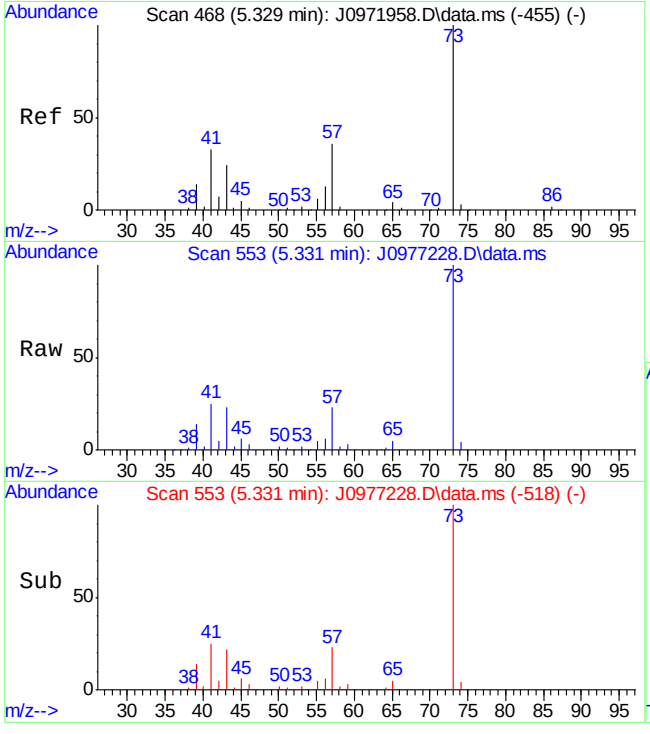


#17
Acetone
Concen: 16.98 ug/L
RT: 5.066 min Scan# 508
Delta R.T. 0.000 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 58 Resp: 3432

Ion	Ratio	Lower	Upper
58	100		
43	248.8	287.4	347.4#

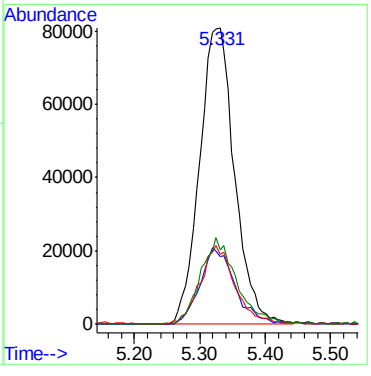




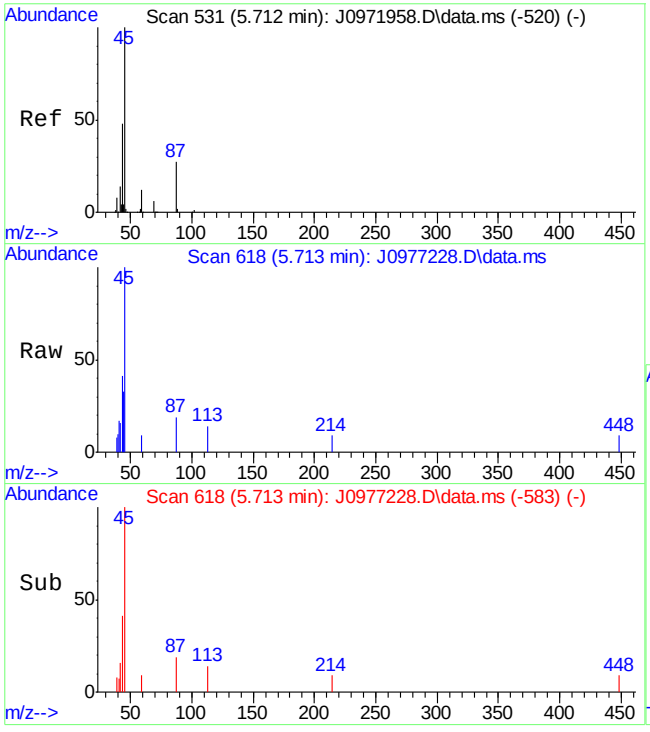
#21
Methyl Tert Butyl Ether
Concen: 33.28 ug/L
RT: 5.331 min Scan# 553
Delta R.T. 0.006 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 73 Resp: 299662

Ion	Ratio	Lower	Upper
73	100		
57	22.9	6.8	66.8
43	23.2	0.2	60.2
41	25.1	5.6	65.6



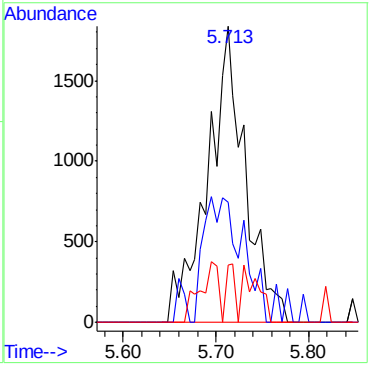
SGS ACCUTEST FA34748

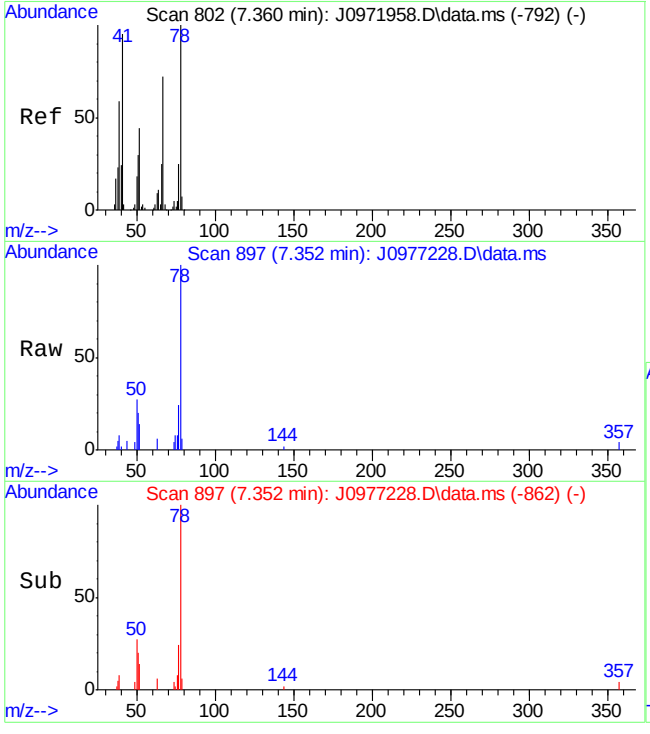


#23
Di-isopropyl ether
Concen: 0.42 ug/L
RT: 5.713 min Scan# 618
Delta R.T. 0.006 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 45 Resp: 5174

Ion	Ratio	Lower	Upper
45	100		
43	40.5	18.4	78.4
87	19.2	0.0	52.5

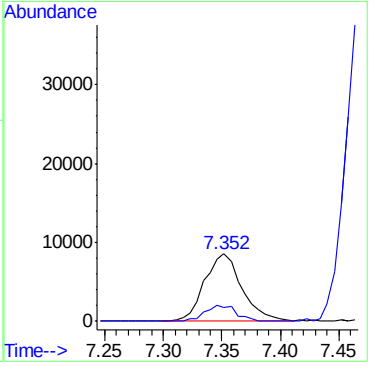


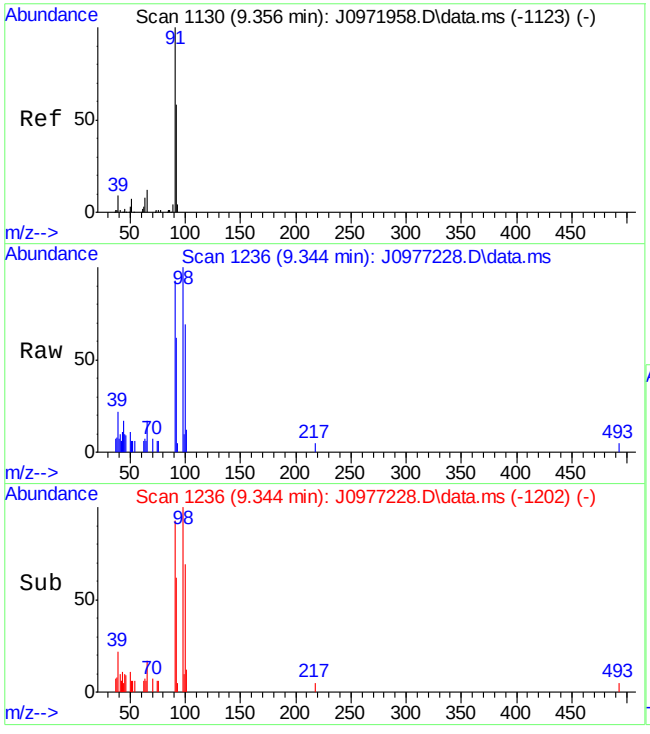


#44
Benzene
Concen: 1.43 ug/L
RT: 7.352 min Scan# 897
Delta R.T. 0.006 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 78 Resp: 18698

Ion	Ratio	Lower	Upper
78	100		
51	20.3	9.0	69.0

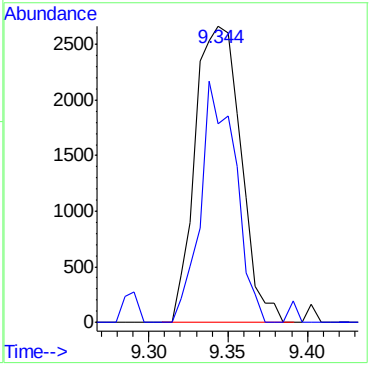


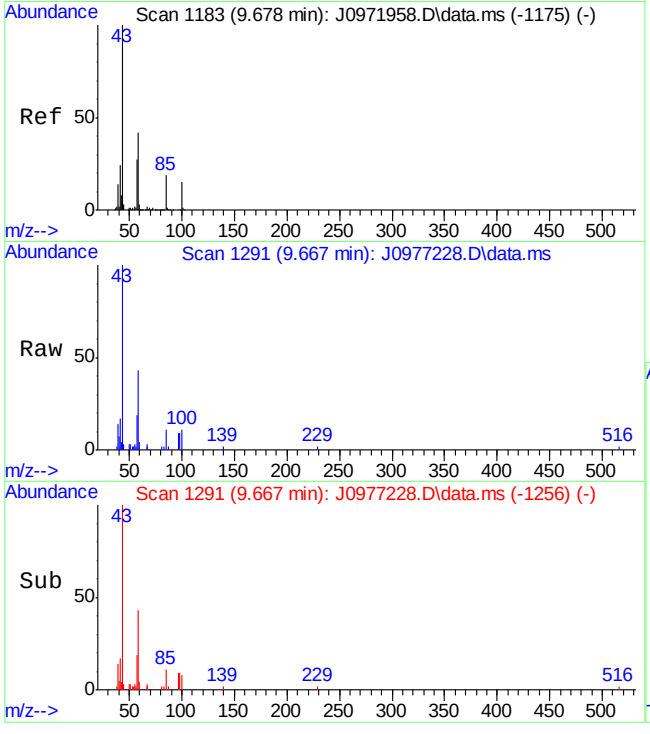


#58
Toluene
Concen: 0.37 ug/L
RT: 9.344 min Scan# 1236
Delta R.T. -0.000 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 91 Resp: 5341

Ion	Ratio	Lower	Upper
91	100		
92	66.9	27.0	87.0

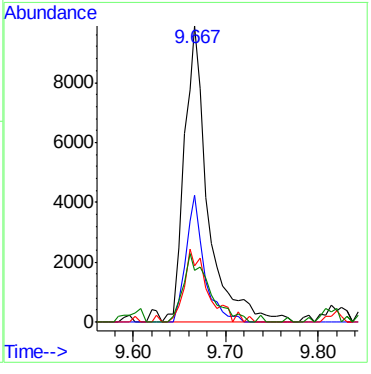


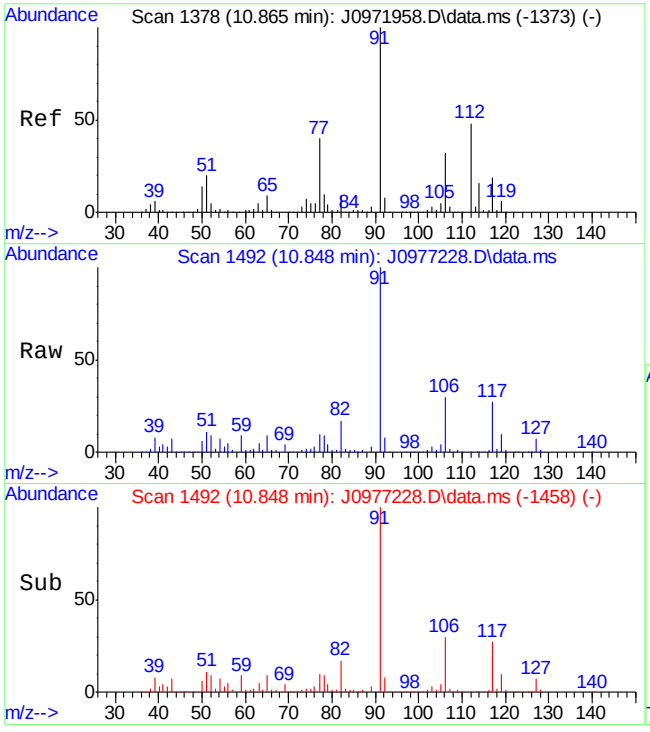


#60
4-Methyl-2-pentanone
Concen: 6.76 ug/L
RT: 9.667 min Scan# 1291
Delta R.T. 0.006 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 43 Resp: 17600

Ion	Ratio	Lower	Upper
43	100		
58	42.7	6.8	66.8
57	18.9	0.0	54.6
41	17.4	0.0	53.7

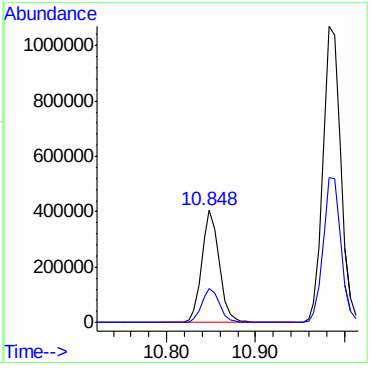


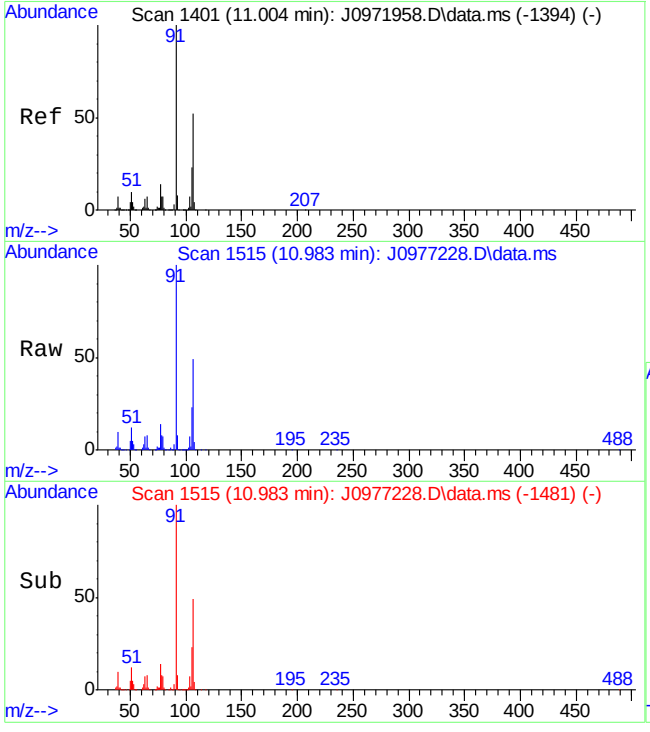


#70
Ethylbenzene
Concen: 32.83 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. -0.000 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 91 Resp: 550923

Ion	Ratio	Lower	Upper
91	100		
106	29.7	2.1	62.1

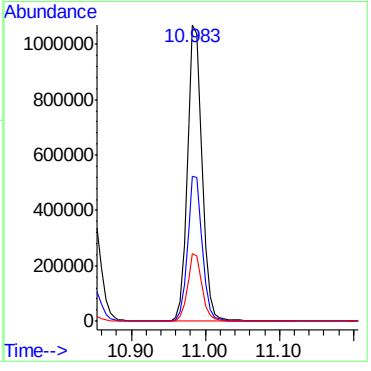


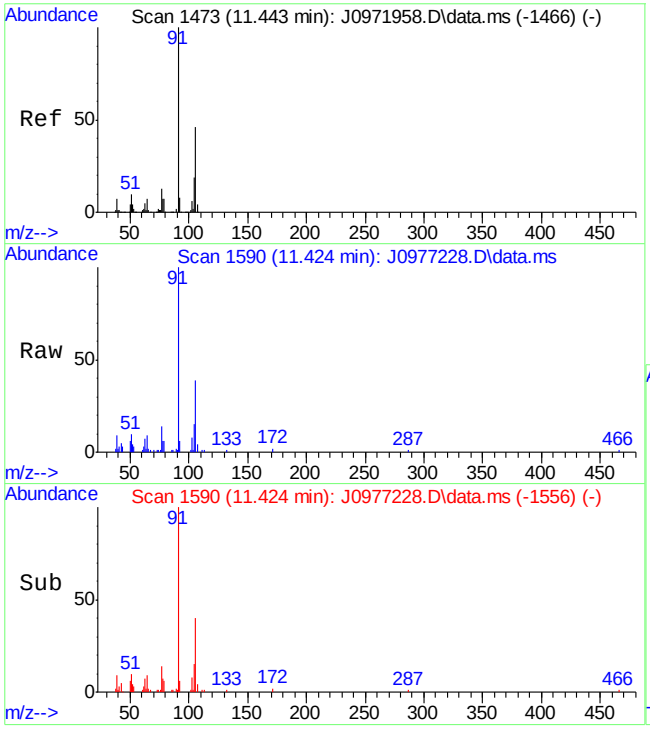


#73
m,p-Xylene
Concen: 118.51 ug/L
RT: 10.983 min Scan# 1515
Delta R.T. 0.000 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 91 Resp: 1496560

Ion	Ratio	Lower	Upper
91	100		
106	48.7	17.5	77.5
105	22.7	0.0	51.8

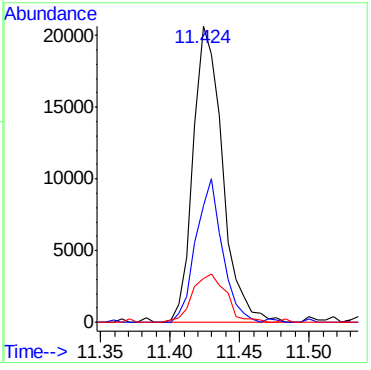


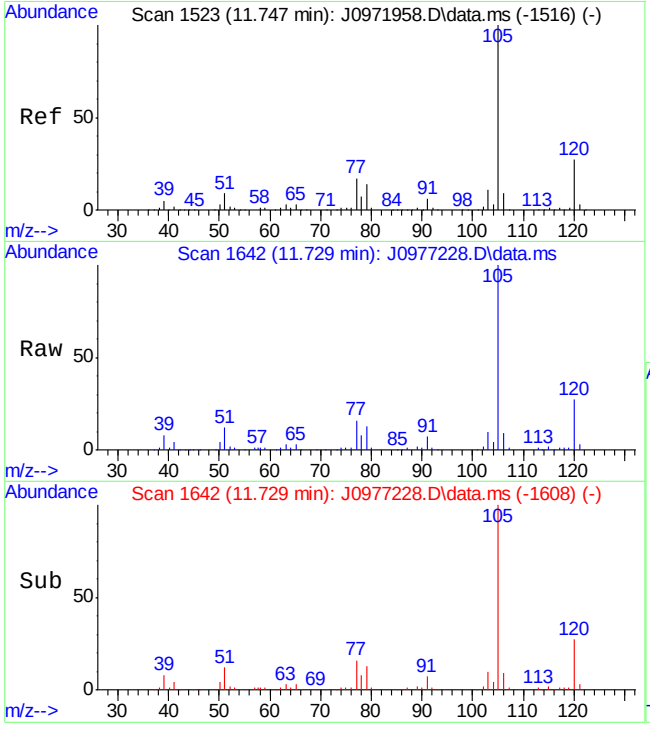


#74
o-Xylene
Concen: 2.38 ug/L
RT: 11.424 min Scan# 1590
Delta R.T. -0.000 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 91 Resp: 30208

Ion	Ratio	Lower	Upper
91	100		
106	39.2	16.7	76.7
105	14.8	0.0	47.7

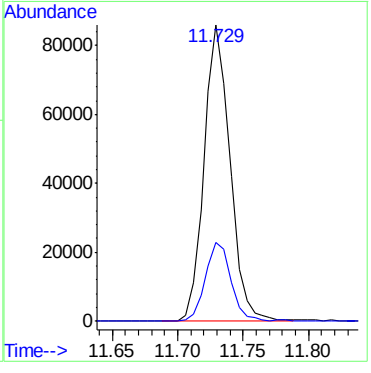


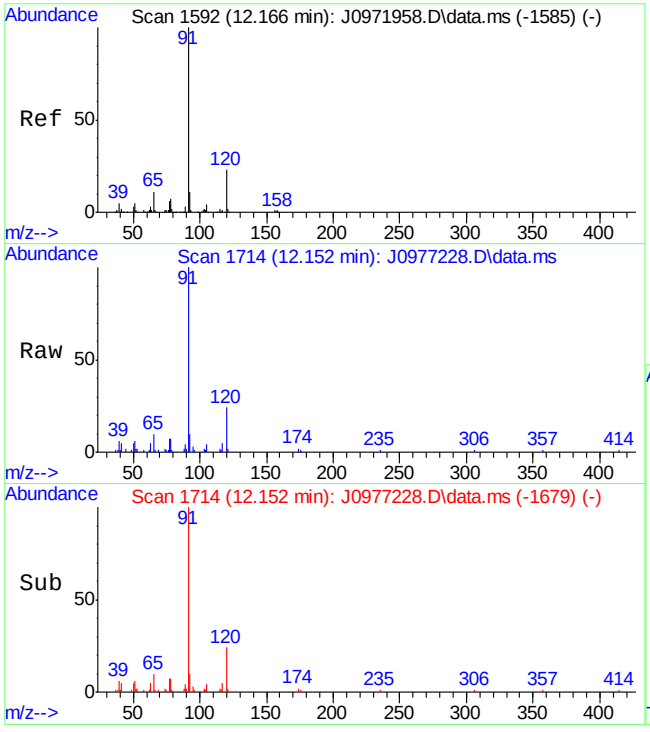


#77
Isopropylbenzene
Concen: 8.31 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion:105 Resp: 118343

Ion	Ratio	Lower	Upper
105	100		
120	26.5	0.0	55.6

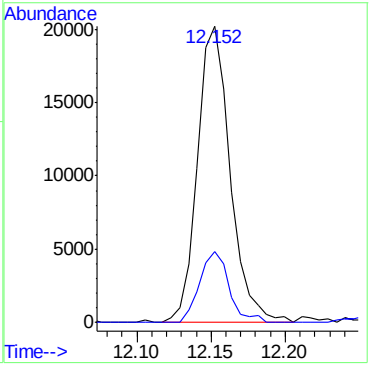


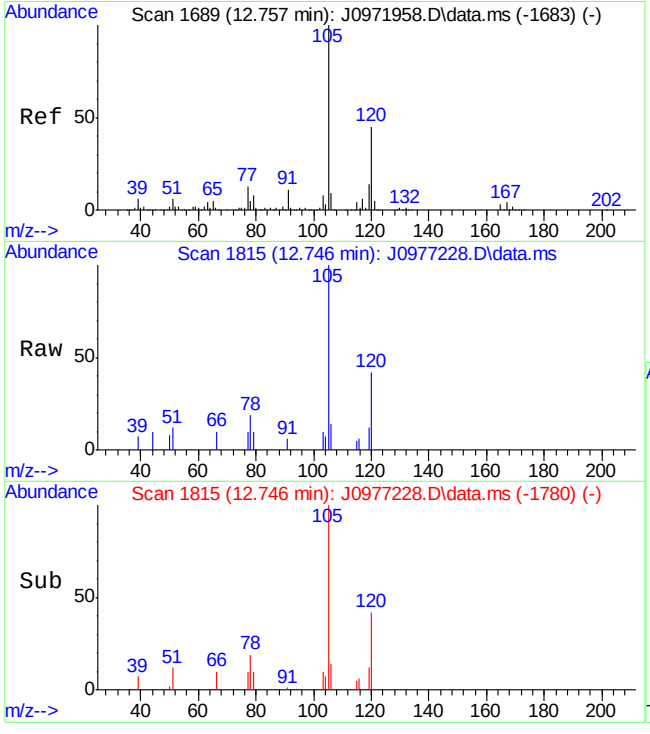


#81
n-Propylbenzene
Concen: 1.80 ug/L
RT: 12.152 min Scan# 1714
Delta R.T. 0.006 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 91 Resp: 31041

Ion	Ratio	Lower	Upper
91	100		
120	23.7	0.0	51.6

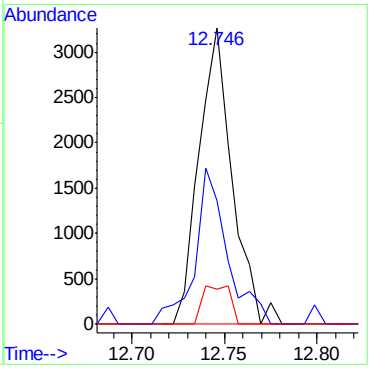


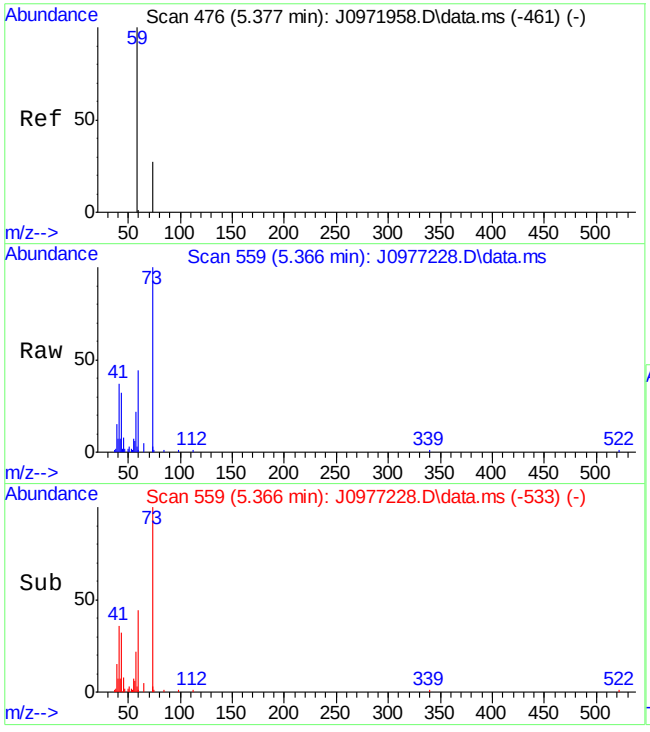


#92
1,2,4-Trimethylbenzene
Concen: 0.32 ug/L
RT: 12.746 min Scan# 1815
Delta R.T. 0.006 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion:105 Resp: 4039

Ion	Ratio	Lower	Upper
105	100		
120	41.8	14.2	74.2
119	11.9	0.0	43.9

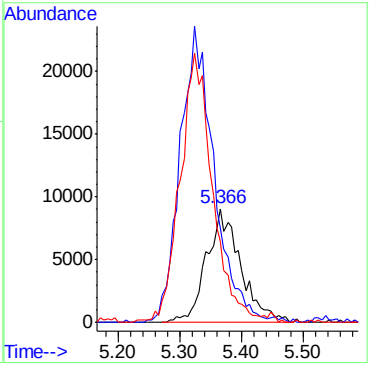


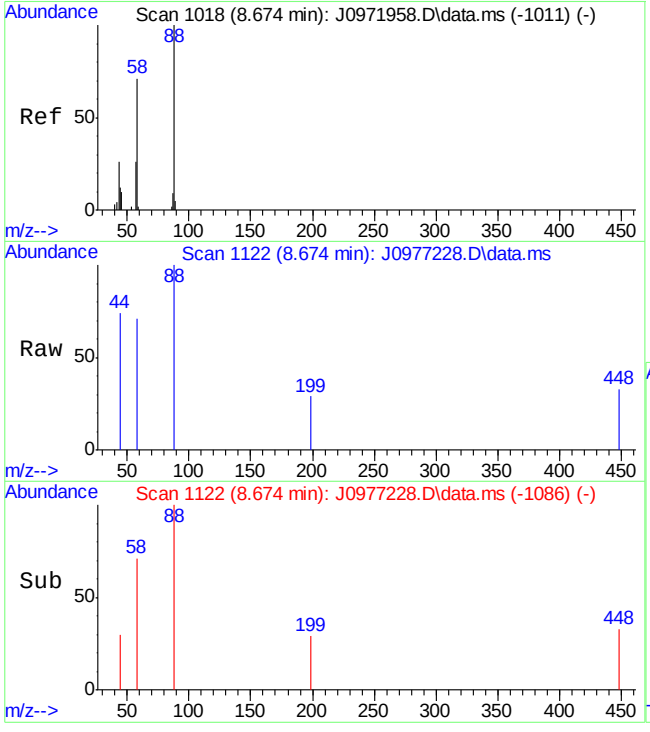


#109
Tert Butyl Alcohol
Concen: 147.24 ug/L
RT: 5.366 min Scan# 559
Delta R.T. 0.000 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 59 Resp: 34769

Ion	Ratio	Lower	Upper
59	100		
41	80.4	35.7	75.7#
43	71.3	21.4	61.4#

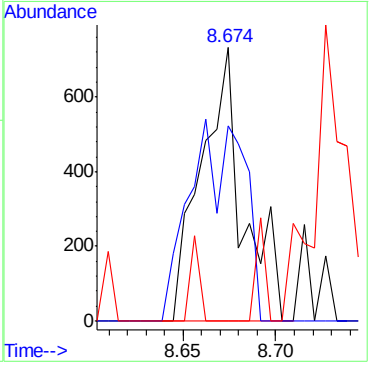




#112
1,4-Dioxane
Concen: 60.87 ug/L
RT: 8.674 min Scan# 1122
Delta R.T. 0.012 min
Lab File: J0977228.D
Acq: 16 Jun 2016 1:37 pm

Tgt Ion: 88 Resp: 1156

Ion	Ratio	Lower	Upper
88	100		
58	71.4	35.2	95.2
43	0.0	0.0	52.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977229.D
Acq On : 16 Jun 2016 2:00 pm
Operator : darshnap
Sample : fa34748-7 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 16 14:43:18 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	574799	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	431345	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	228059	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	42119	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	141315	49.92	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.84%			
46) 1,2-Dichloroethane-d4	7.470	65	184858	51.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.34%			
57) Toluene-d8	9.291	98	557548	48.63	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.26%			
79) 4-Bromofluorobenzene	12.041	95	225328	52.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.76%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.319	73	116820	13.21	ug/L	86
32) Cyclohexane	6.735	56	5972	1.02	ug/L #	77
70) Ethylbenzene	10.854	91	20804	1.29	ug/L	96
73) m,p-Xylene	10.989	91	18617	1.49	ug/L	81
77) Isopropylbenzene	11.729	105	36356	2.67	ug/L	93
81) n-Propylbenzene	12.152	91	7370	0.44	ug/L	100

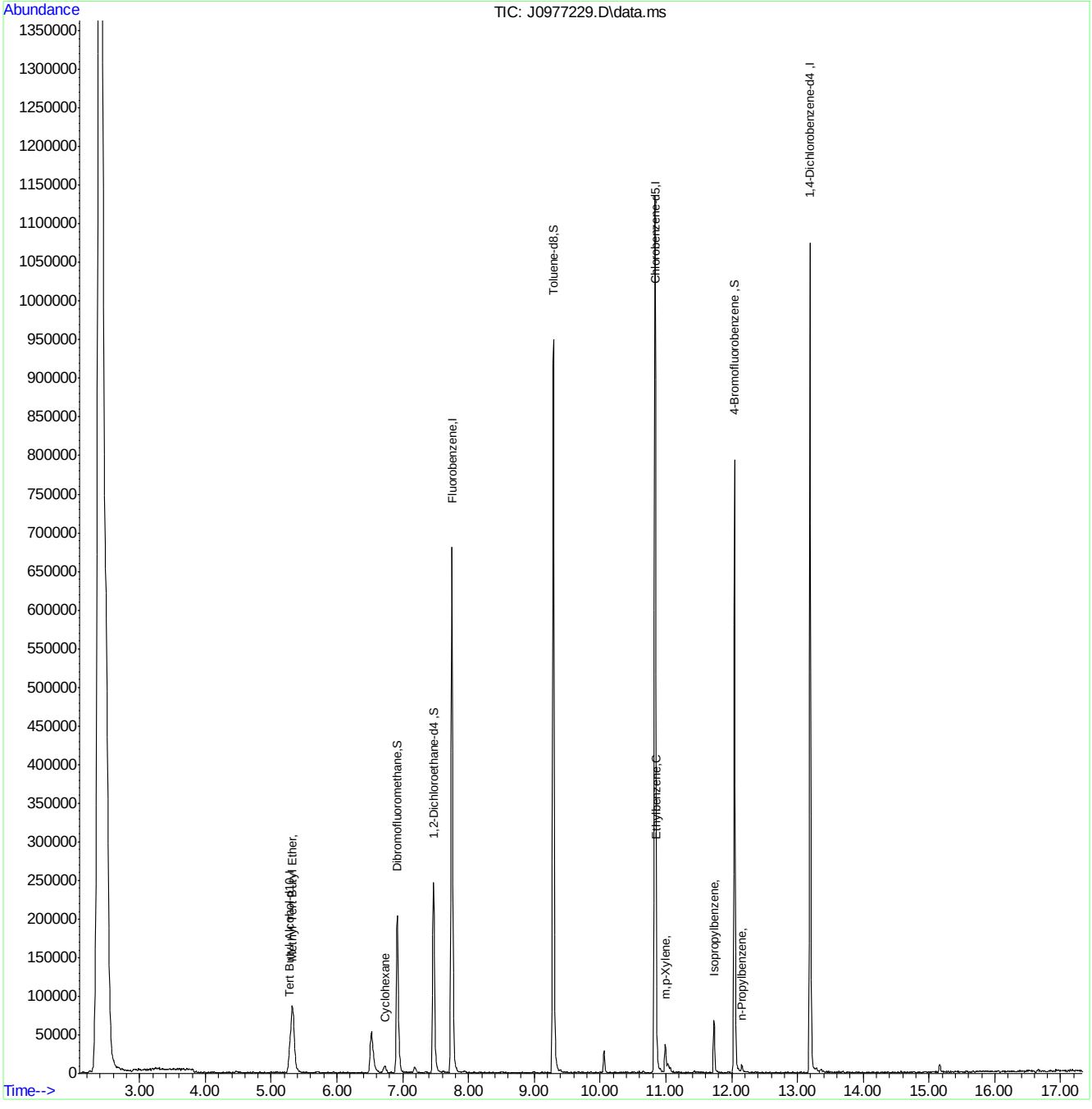
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34748

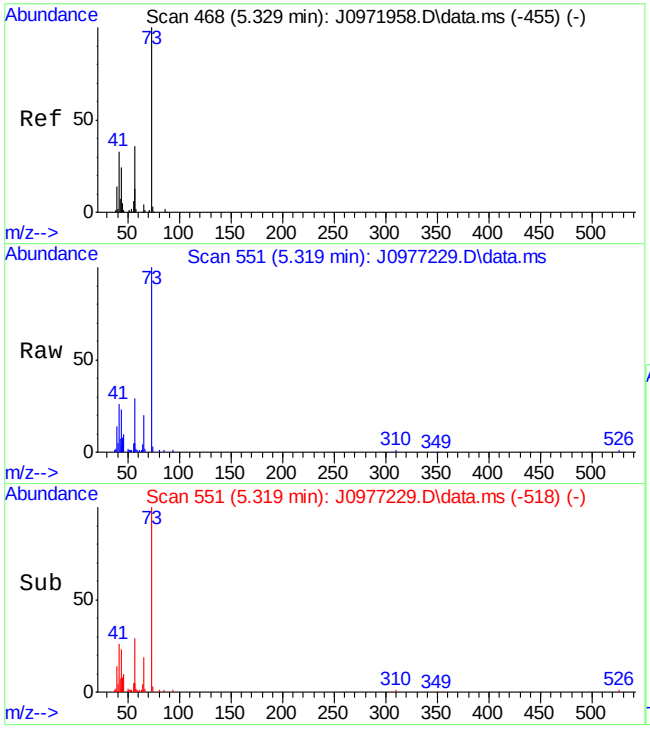
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977229.D
Acq On : 16 Jun 2016 2:00 pm
Operator : darshnap
Sample : fa34748-7 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 16 14:43:18 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



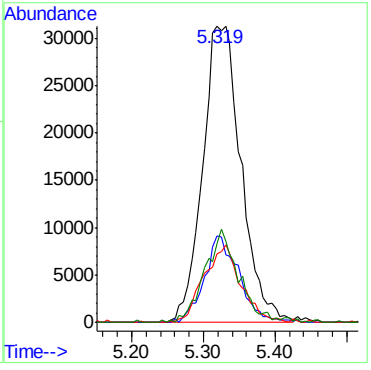
MSJ061416a.M Fri Jun 17 12:21:44 2016 Page: 2

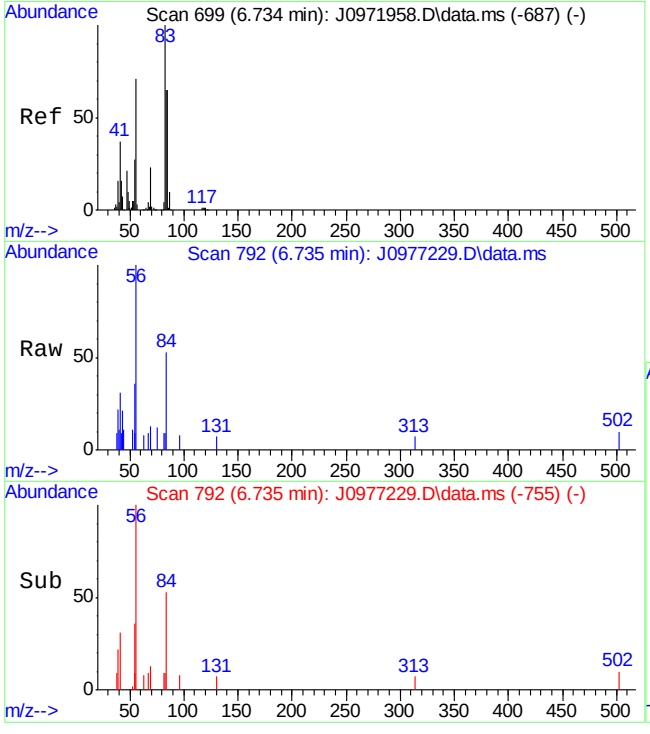


#21
Methyl Tert Butyl Ether
Concen: 13.21 ug/L
RT: 5.319 min Scan# 551
Delta R.T. -0.006 min
Lab File: J0977229.D
Acq: 16 Jun 2016 2:00 pm

Tgt Ion: 73 Resp: 116820

Ion	Ratio	Lower	Upper
73	100		
57	29.2	6.8	66.8
43	23.1	0.2	60.2
41	25.9	5.6	65.6

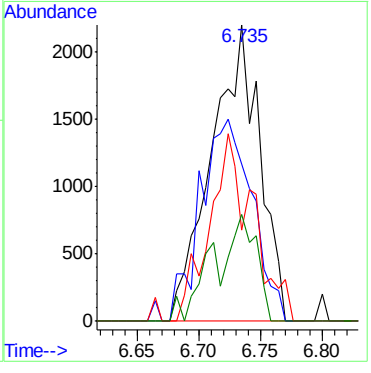


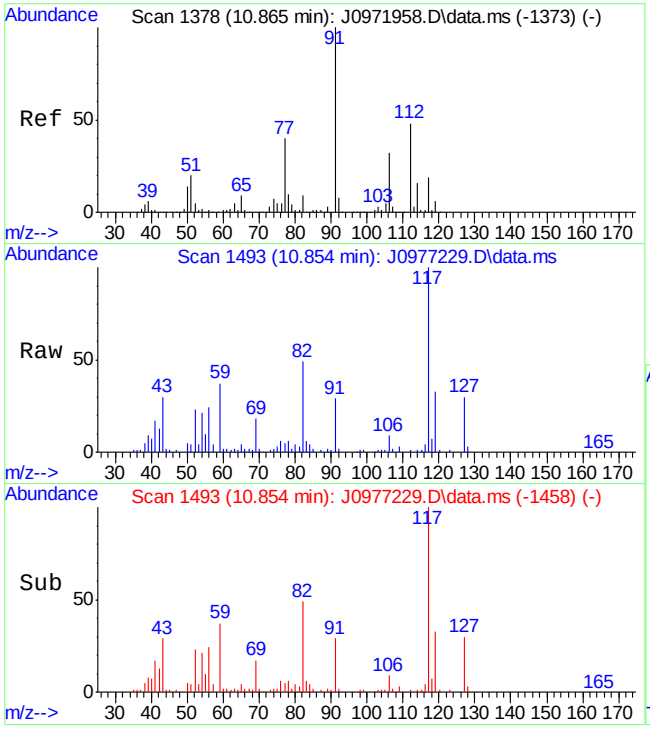


#32
Cyclohexane
Concen: 1.02 ug/L
RT: 6.735 min Scan# 792
Delta R.T. 0.018 min
Lab File: J0977229.D
Acq: 16 Jun 2016 2:00 pm

Tgt Ion: 56 Resp: 5972

Ion	Ratio	Lower	Upper
56	100		
84	53.0	51.4	91.4
41	30.6	35.4	75.4#
55	36.2	13.8	53.8

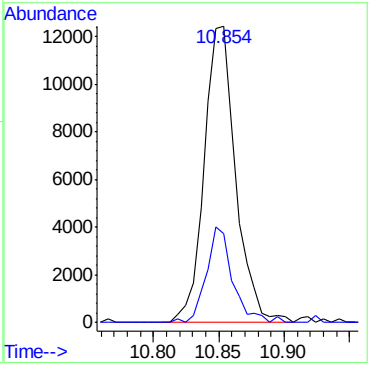


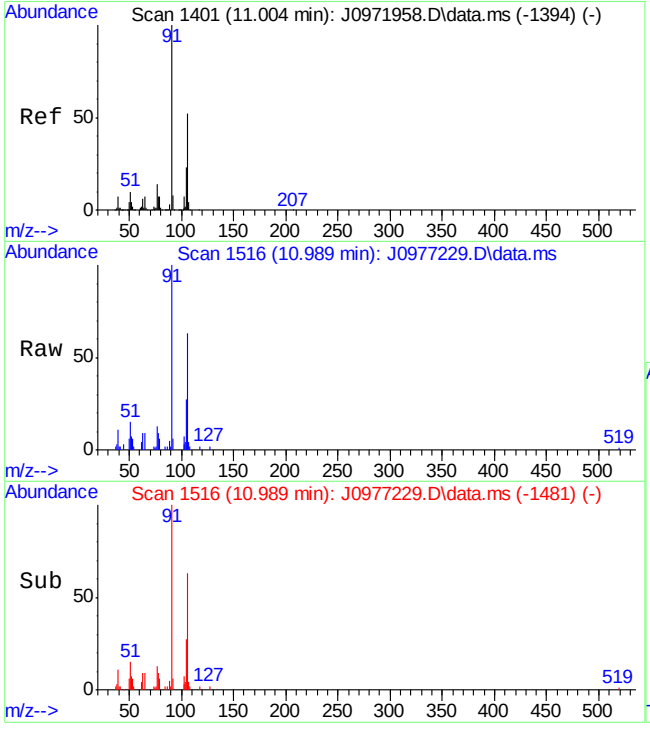


#70
Ethylbenzene
Concen: 1.29 ug/L
RT: 10.854 min Scan# 1493
Delta R.T. 0.006 min
Lab File: J0977229.D
Acq: 16 Jun 2016 2:00 pm

Tgt Ion: 91 Resp: 20804

Ion	Ratio	Lower	Upper
91	100		
106	30.1	2.1	62.1

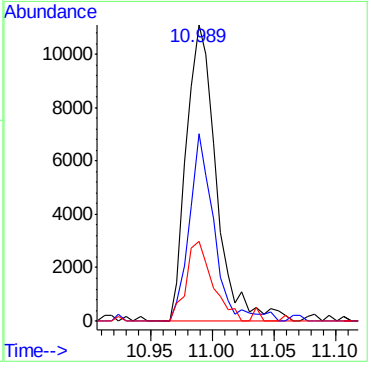


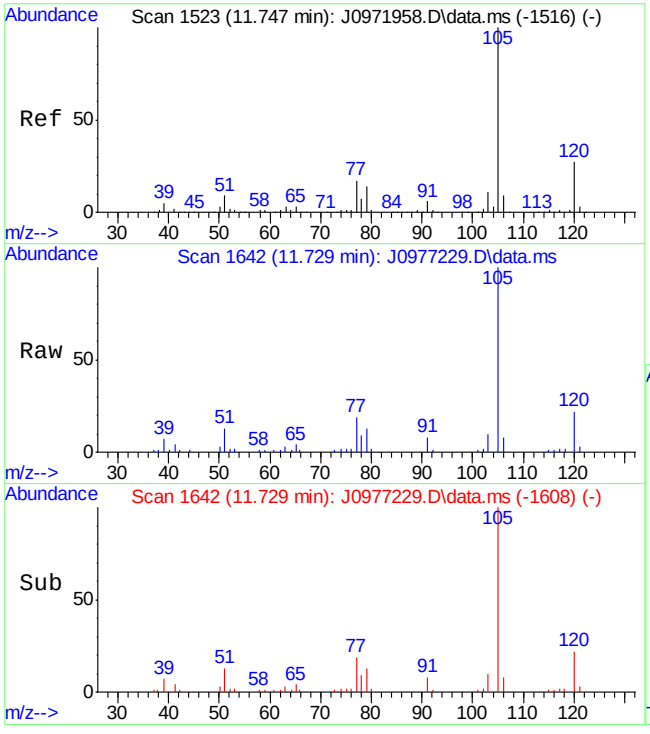


#73
m,p-Xylene
Concen: 1.49 ug/L
RT: 10.989 min Scan# 1516
Delta R.T. 0.006 min
Lab File: J0977229.D
Acq: 16 Jun 2016 2:00 pm

Tgt Ion: 91 Resp: 18617

Ion	Ratio	Lower	Upper
91	100		
106	63.2	17.5	77.5
105	27.0	0.0	51.8

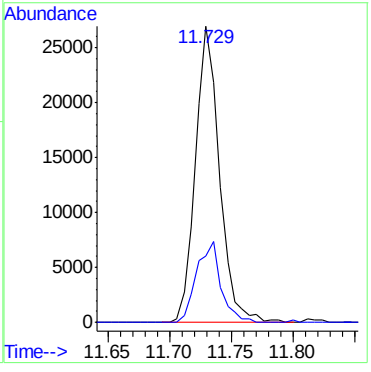


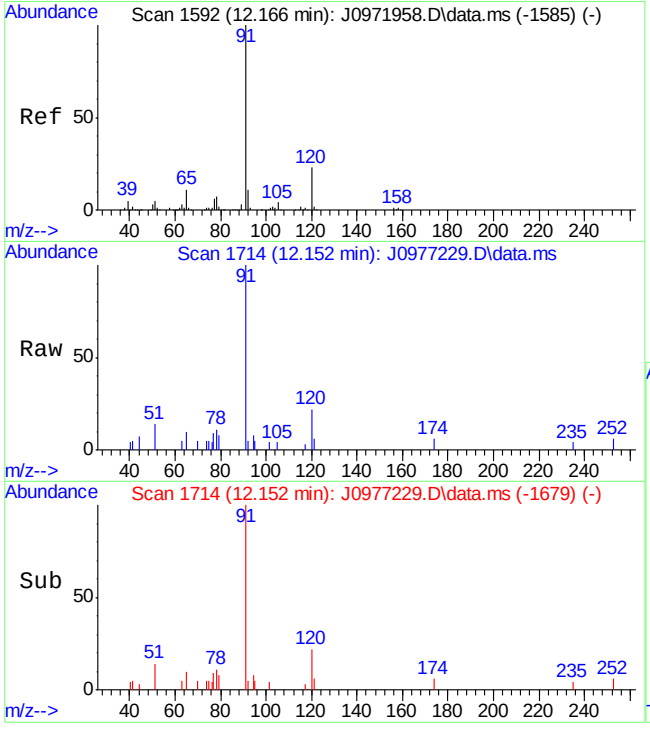


#77
Isopropylbenzene
Concen: 2.67 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977229.D
Acq: 16 Jun 2016 2:00 pm

Tgt Ion:105 Resp: 36356

Ion	Ratio	Lower	Upper
105	100		
120	22.2	0.0	55.6

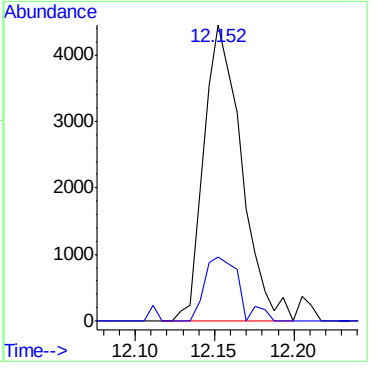




#81
n-Propylbenzene
Concen: 0.44 ug/L
RT: 12.152 min Scan# 1714
Delta R.T. 0.006 min
Lab File: J0977229.D
Acq: 16 Jun 2016 2:00 pm

Tgt Ion: 91 Resp: 7370

Ion	Ratio	Lower	Upper
91	100		
120	21.7	0.0	51.6



SGS ACCUTEST FA34748

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
06/17/16 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977230.D
Acq On : 16 Jun 2016 2:23 pm
Operator : darshnap
Sample : fa34748-8 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 14:44:24 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	564233	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	422289	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	217758	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	39754	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	139795	50.31	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.62%			
46) 1,2-Dichloroethane-d4	7.469	65	178931	50.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.92%			
57) Toluene-d8	9.291	98	557205	49.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.30%			
79) 4-Bromofluorobenzene	12.041	95	219013	53.83	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.66%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.331	73	33224	3.83	ug/L	88
44) Benzene	7.346	78	5208	0.41	ug/L	62
71) Chlorobenzene	10.854	112	3180	0.37	ug/L	83
77) Isopropylbenzene	11.729	105	9816	0.74	ug/L	95
81) n-Propylbenzene	12.158	91	4113	0.26	ug/L	84
109) Tert Butyl Alcohol	5.378	59	8796m	40.10	ug/L	
110) tert Amyl alcohol	7.569	59	271	1.59	ug/L #	26
112) 1,4-Dioxane	8.656	88	98922	8036.03	ug/L	82

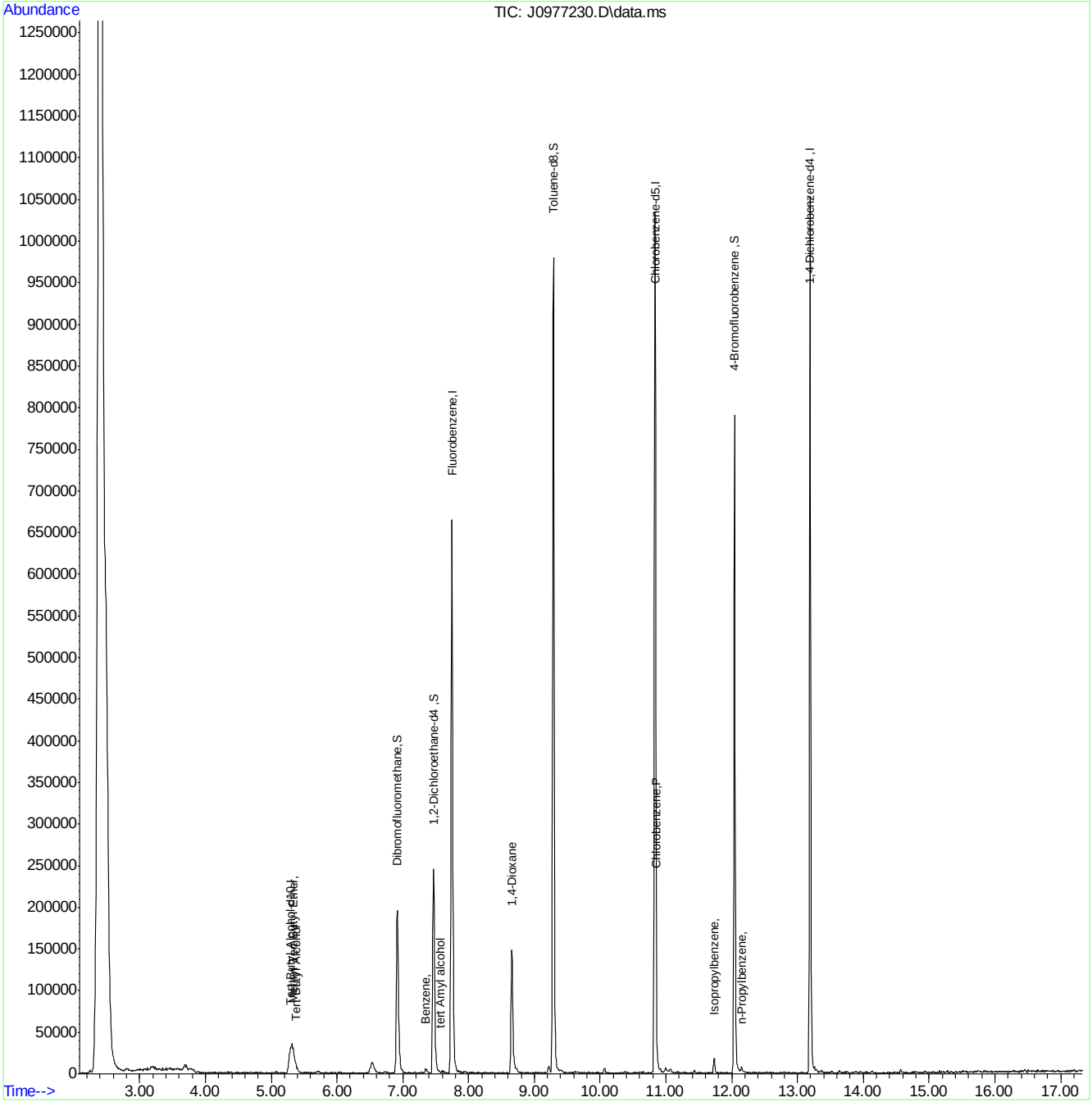
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.8
7

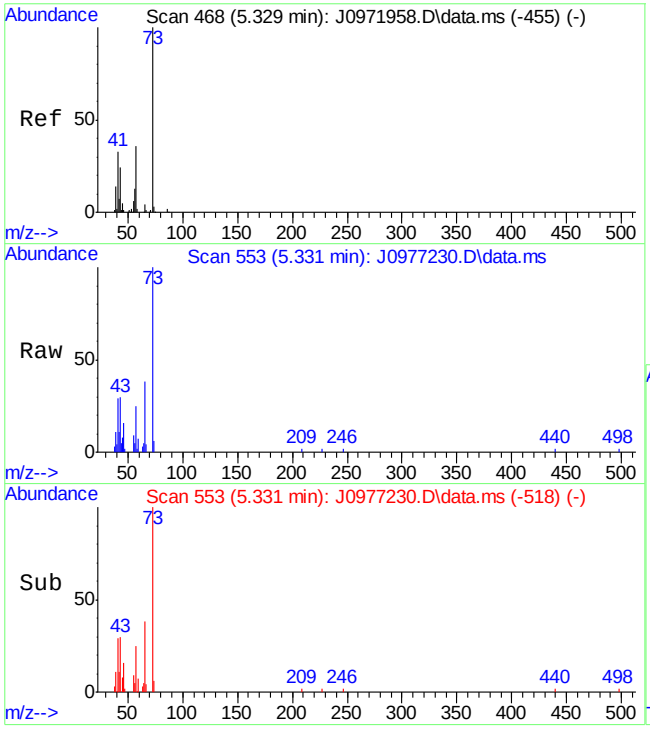
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977230.D
Acq On : 16 Jun 2016 2:23 pm
Operator : darshnap
Sample : fa34748-8 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 14:44:24 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



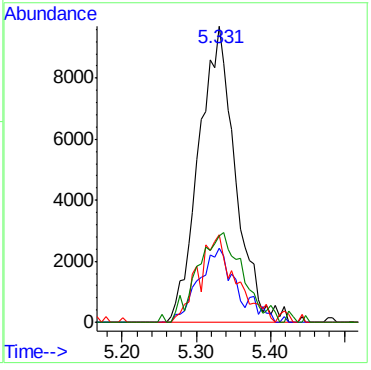
MSJ061416a.M Fri Jun 17 12:21:47 2016 Page: 2

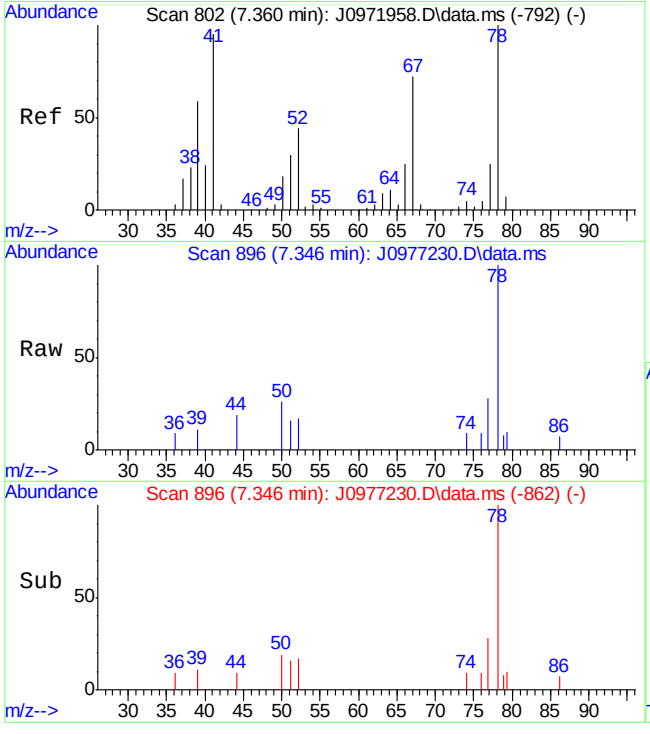


#21
Methyl Tert Butyl Ether
Concen: 3.83 ug/L
RT: 5.331 min Scan# 553
Delta R.T. 0.006 min
Lab File: J0977230.D
Acq: 16 Jun 2016 2:23 pm

Tgt Ion: 73 Resp: 33224

Ion	Ratio	Lower	Upper
73	100		
57	25.1	6.8	66.8
43	29.6	0.2	60.2
41	27.1	5.6	65.6

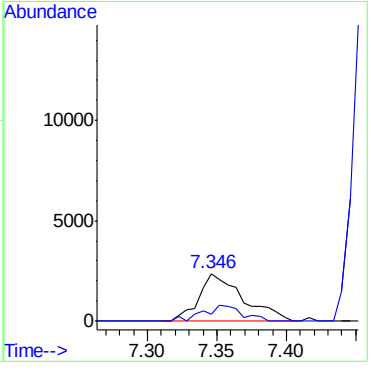


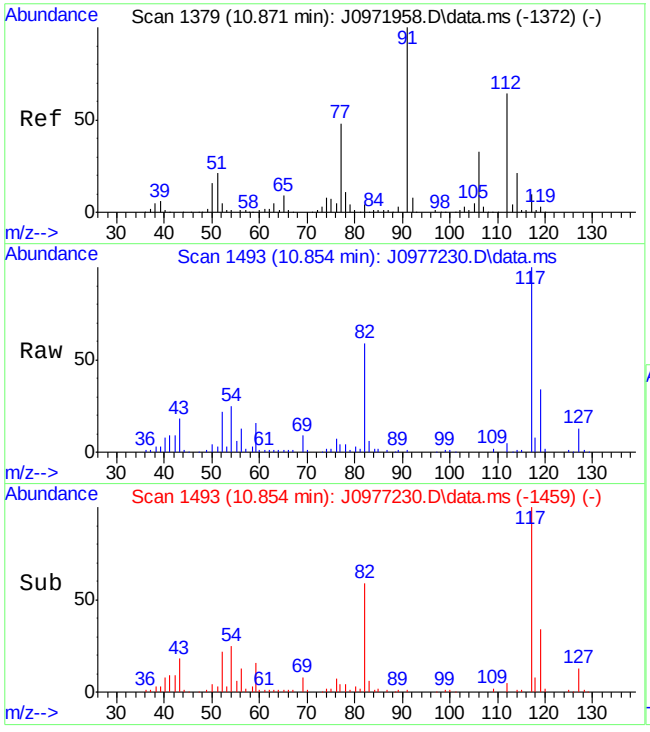


#44
Benzene
Concen: 0.41 ug/L
RT: 7.346 min Scan# 896
Delta R.T. -0.000 min
Lab File: J0977230.D
Acq: 16 Jun 2016 2:23 pm

Tgt Ion: 78 Resp: 5208

Ion	Ratio	Lower	Upper
78	100		
51	15.6	9.0	69.0

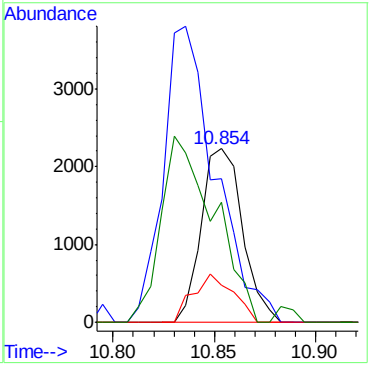


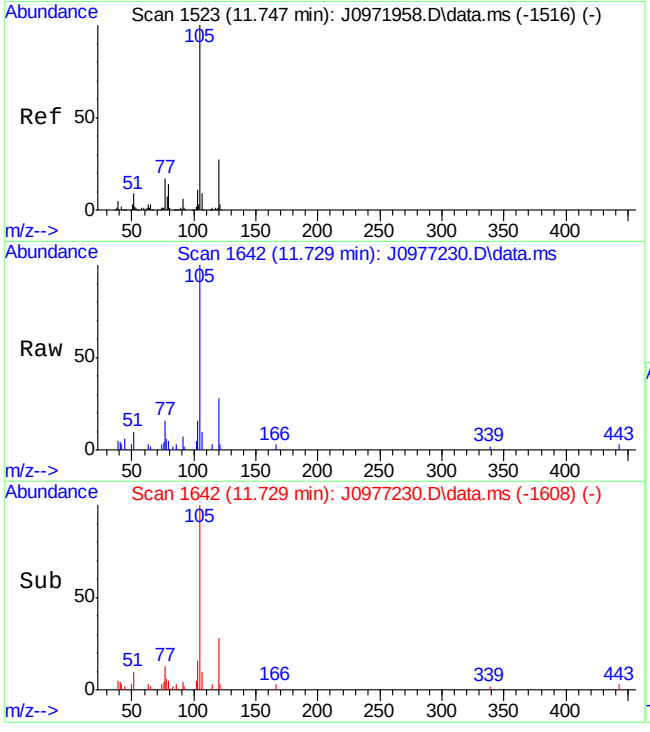


#71
Chlorobenzene
Concen: 0.37 ug/L
RT: 10.854 min Scan# 1493
Delta R.T. -0.000 min
Lab File: J0977230.D
Acq: 16 Jun 2016 2:23 pm

Tgt Ion:112 Resp: 3180

Ion	Ratio	Lower	Upper
112	100		
77	82.9	46.5	106.5
114	21.1	2.2	62.2
51	62.1	12.4	72.4

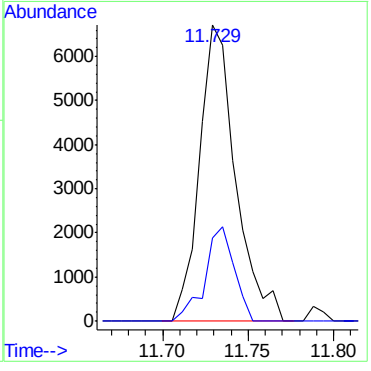


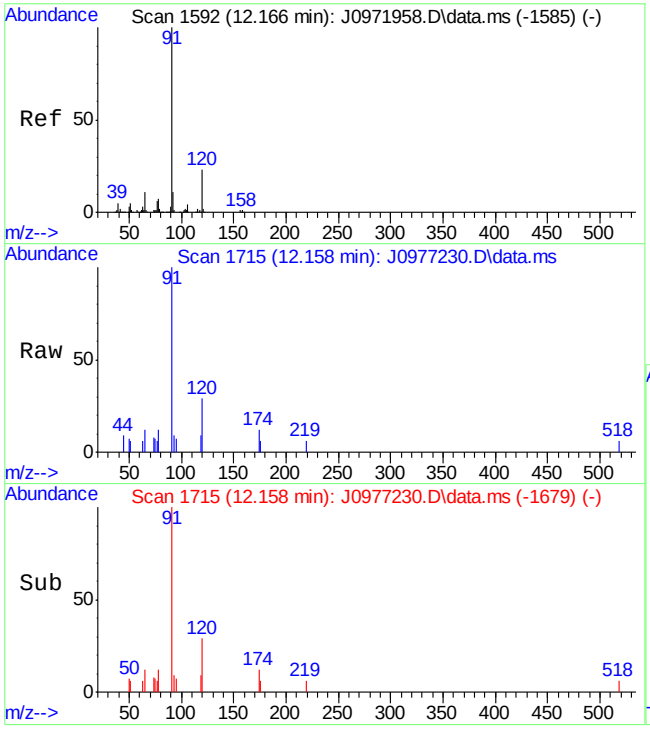


#77
Isopropylbenzene
Concen: 0.74 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977230.D
Acq: 16 Jun 2016 2:23 pm

Tgt Ion:105 Resp: 9816

Ion	Ratio	Lower	Upper
105	100		
120	27.9	0.0	55.6

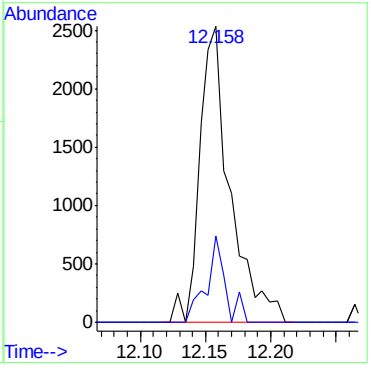


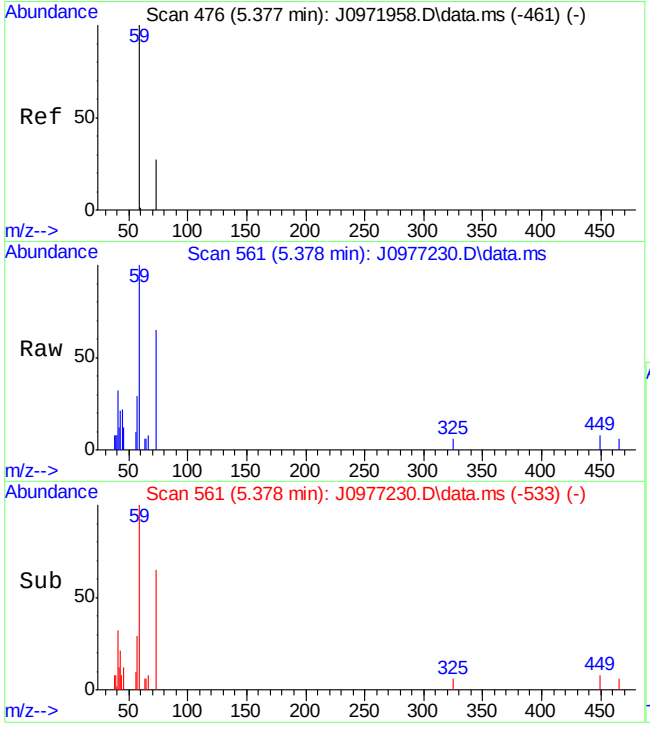


#81
n-Propylbenzene
Concen: 0.26 ug/L
RT: 12.158 min Scan# 1715
Delta R.T. 0.012 min
Lab File: J0977230.D
Acq: 16 Jun 2016 2:23 pm

Tgt Ion: 91 Resp: 4113

Ion	Ratio	Lower	Upper
91	100		
120	29.1	0.0	51.6

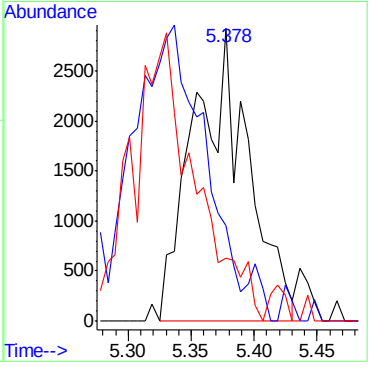


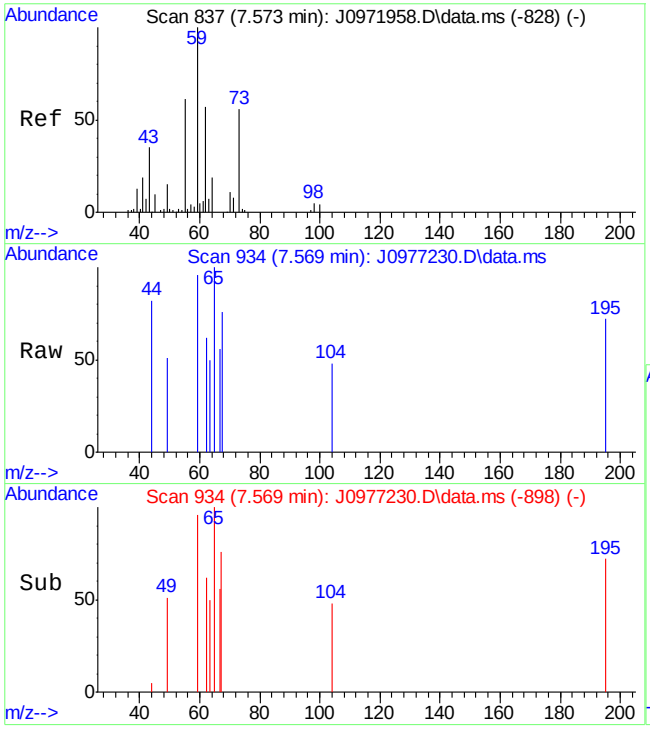


#109
Tert Butyl Alcohol
Concen: 40.10 ug/L m
RT: 5.378 min Scan# 561
Delta R.T. 0.012 min
Lab File: J0977230.D
Acq: 16 Jun 2016 2:23 pm

Tgt Ion: 59 Resp: 8796

Ion	Ratio	Lower	Upper
59	100		
41	32.4	35.7	75.7#
43	21.3	21.4	61.4#

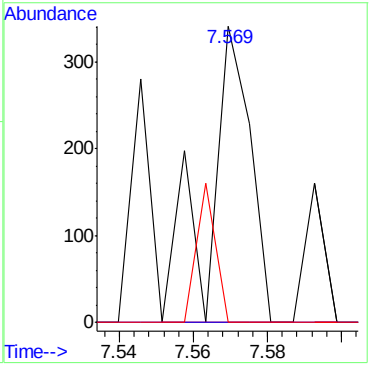


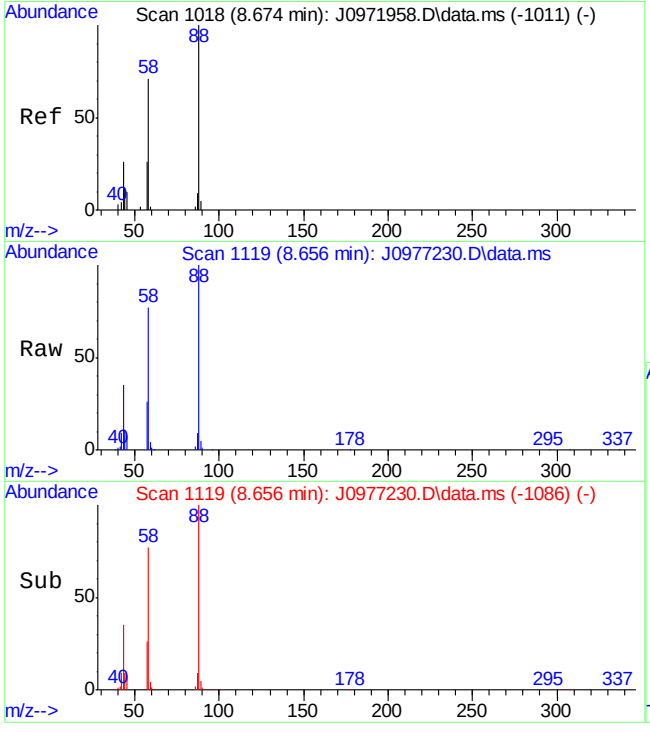


#110
tert Amyl alcohol
Concen: 1.59 ug/L
RT: 7.569 min Scan# 934
Delta R.T. 0.011 min
Lab File: J0977230.D
Acq: 16 Jun 2016 2:23 pm

Tgt Ion: 59 Resp: 271

Ion	Ratio	Lower	Upper
59	100		
55	0.0	33.8	73.8#
73	0.0	31.4	71.4#

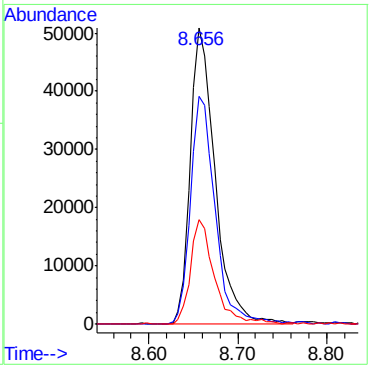




#112
1,4-Dioxane
Concen: 8036.03 ug/L
RT: 8.656 min Scan# 1119
Delta R.T. -0.006 min
Lab File: J0977230.D
Acq: 16 Jun 2016 2:23 pm

Tgt Ion: 88 Resp: 98922

Ion	Ratio	Lower	Upper
88	100		
58	77.1	35.2	95.2
43	35.1	0.0	52.8



7.1.8

7

SGS ACCUTEST FA34748

Manual Integration Approval Summary

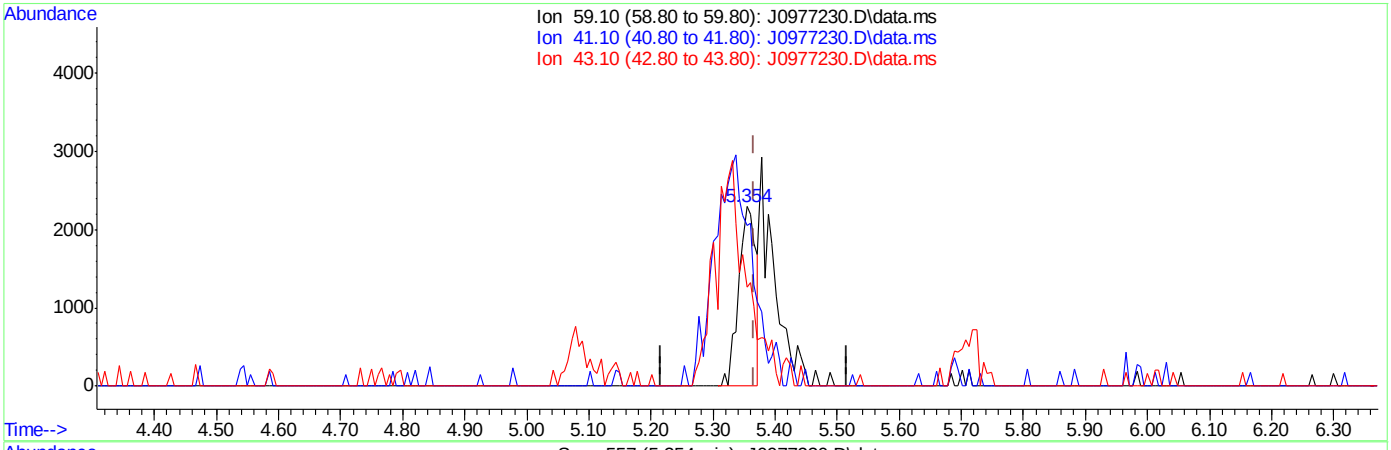
Sample Number:	FA34748-8	**Method:**	SW846 8260C
Lab FileID:	J0977230.D	**Analyst approved:**	06/17/16 12:39 Darshna Patel
Injection Time:	06/16/16 14:23	**Supervisor approved:**	06/17/16 13:00 Juan Garcia

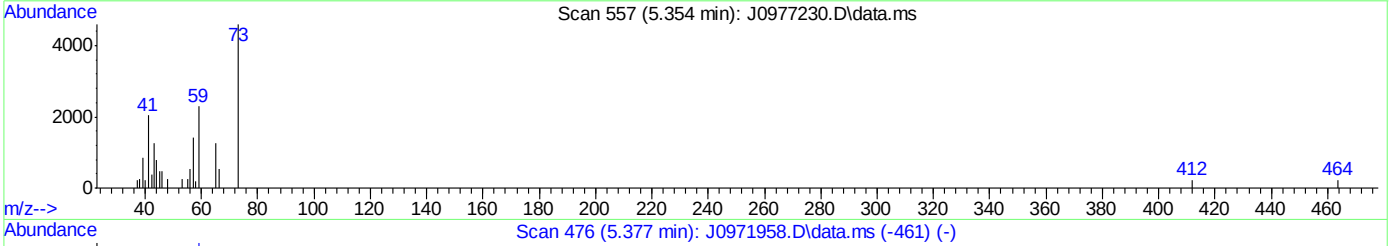
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tert-Butyl Alcohol	75-65-0		5.38	Overlapping peak

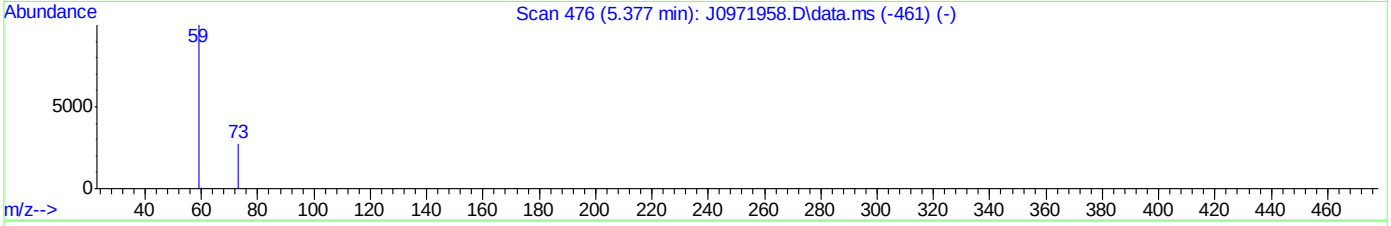
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977230.D
Acq On : 16 Jun 2016 2:23 pm
Operator : darshnap
Sample : fa34748-8 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 14:43:38 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration







TIC: J0977230.D\data.ms

(109) Tert Butyl Alcohol

5.354min (-0.012) 20.49ug/L

response 4498

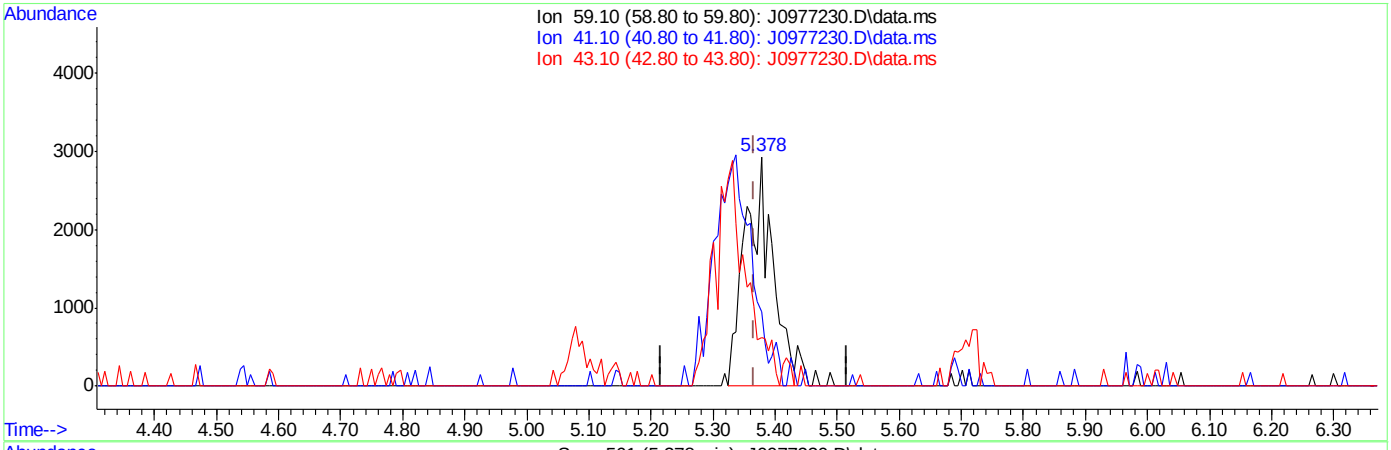
Ion	Exp%	Act%
59.10	100	100
41.10	55.70	42.49
43.10	41.40	29.65
0.00	0.00	0.00

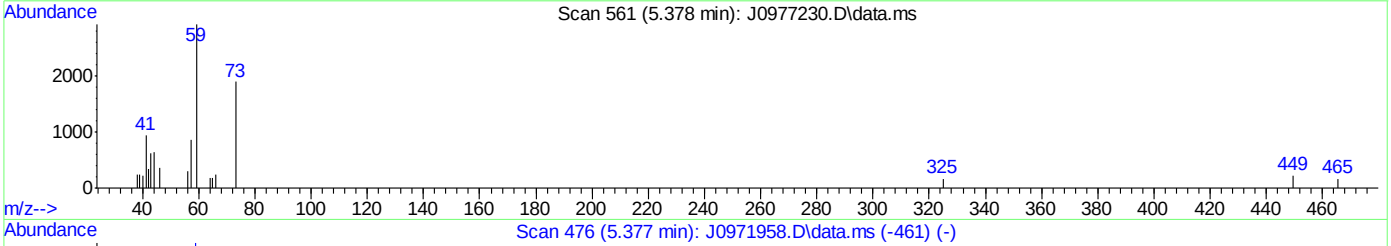
SGS ACCUTEST FA34748

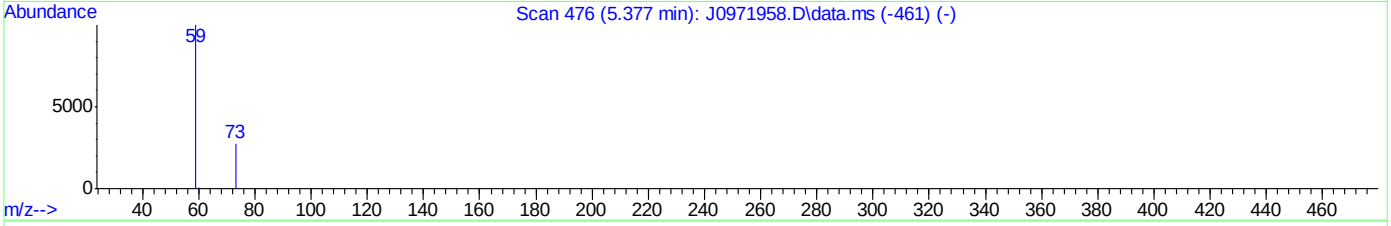
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977230.D
Acq On : 16 Jun 2016 2:23 pm
Operator : darshnap
Sample : fa34748-8 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 16 14:43:38 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration







TIC: J0977230.D\data.ms

(109) Tert Butyl Alcohol

5.378min (+0.012) 40.10ug/L m

response 8796

Ion	Exp%	Act%
59.10	100	100
41.10	55.70	32.40#
43.10	41.40	21.27#
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977231.D
Acq On : 16 Jun 2016 2:46 pm
Operator : darshnap
Sample : fa34748-9 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,20
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 17 08:39:45 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

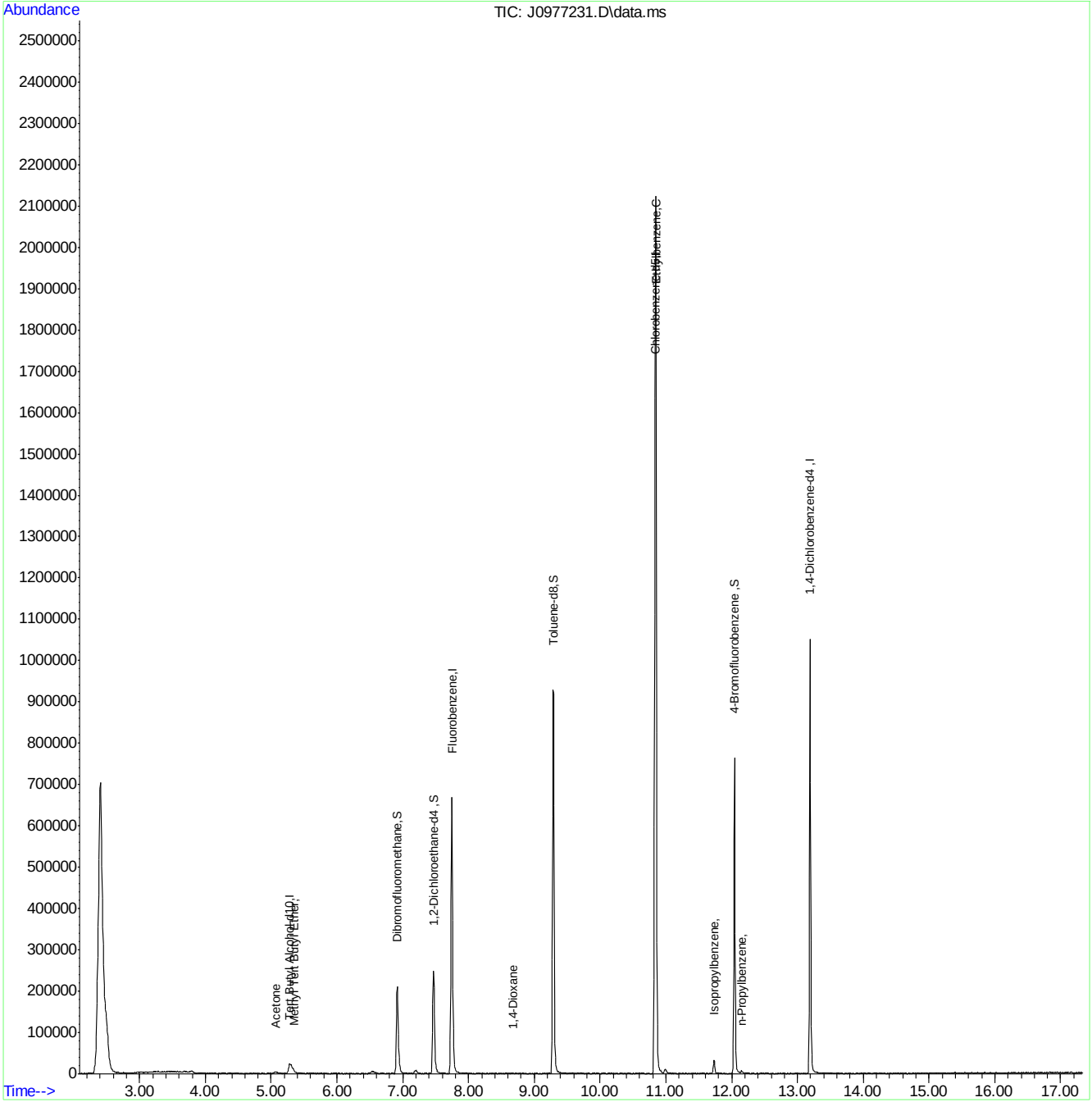
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	550064	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	422254	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	216934	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	41985	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	136912	50.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.08%			
46) 1,2-Dichloroethane-d4	7.470	65	178107	51.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.04%			
57) Toluene-d8	9.285	98	546815	48.72	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.44%			
79) 4-Bromofluorobenzene	12.041	95	209230	51.62	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.24%			
Target Compounds						Qvalue
17) Acetone	5.072	58	2478	13.05	ug/L #	76
21) Methyl Tert Butyl Ether	5.348	73	3464	0.41	ug/L	84
70) Ethylbenzene	10.848	91	1057132	68.07	ug/L	98
77) Isopropylbenzene	11.729	105	19289	1.45	ug/L	96
81) n-Propylbenzene	12.152	91	4872	0.30	ug/L	97
112) 1,4-Dioxane	8.680	88	732	39.46	ug/L	74

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

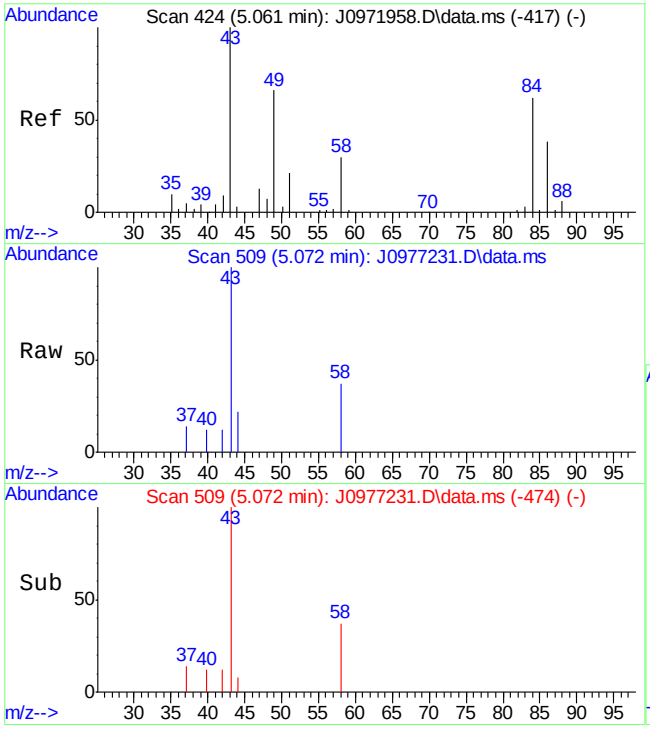
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977231.D
Acq On : 16 Jun 2016 2:46 pm
Operator : darshnap
Sample : fa34748-9 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,20
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 17 08:39:45 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



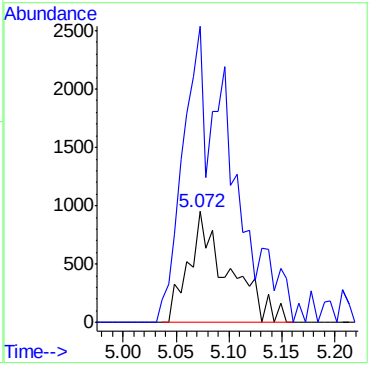
MSJ061416a.M Fri Jun 17 12:21:50 2016 Page: 2

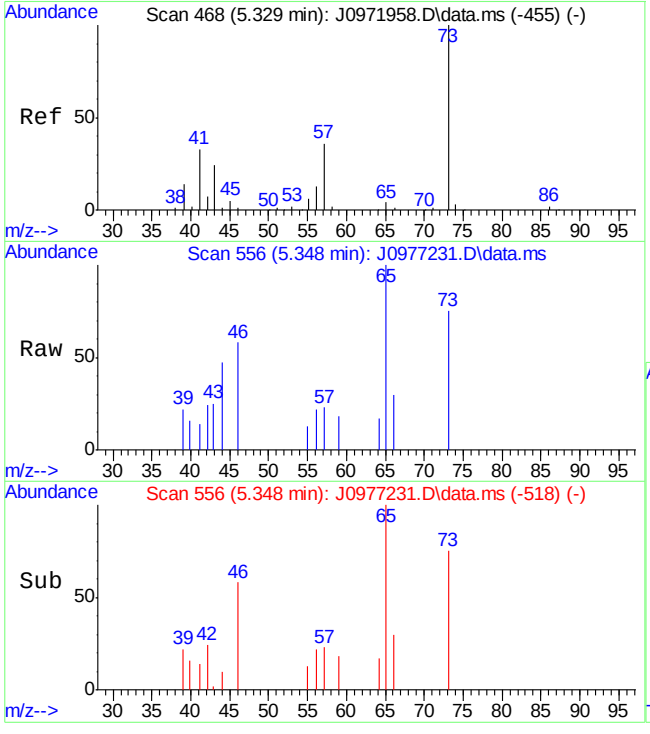


#17
Acetone
Concen: 13.05 ug/L
RT: 5.072 min Scan# 509
Delta R.T. 0.006 min
Lab File: J0977231.D
Acq: 16 Jun 2016 2:46 pm

Tgt Ion: 58 Resp: 2478

Ion	Ratio	Lower	Upper
58	100		
43	267.5	287.4	347.4#

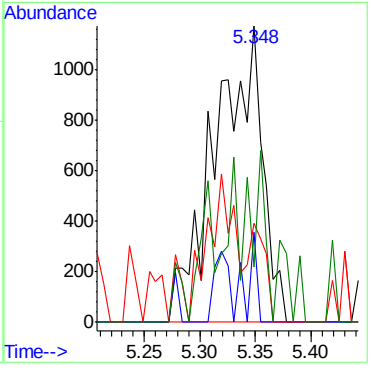


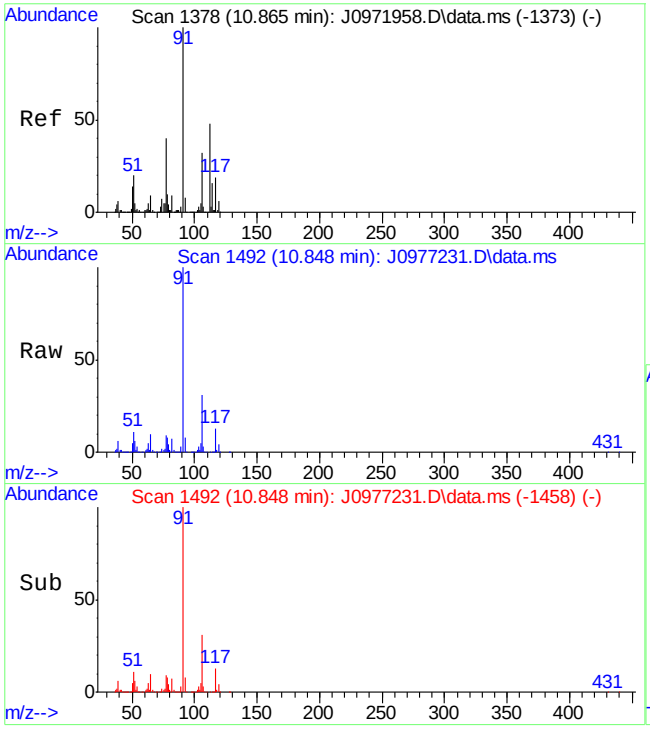


#21
Methyl Tert Butyl Ether
Concen: 0.41 ug/L
RT: 5.348 min Scan# 556
Delta R.T. 0.023 min
Lab File: J0977231.D
Acq: 16 Jun 2016 2:46 pm

Tgt Ion: 73 Resp: 3464

Ion	Ratio	Lower	Upper
73	100		
57	30.2	6.8	66.8
43	33.4	0.2	60.2
41	18.6	5.6	65.6

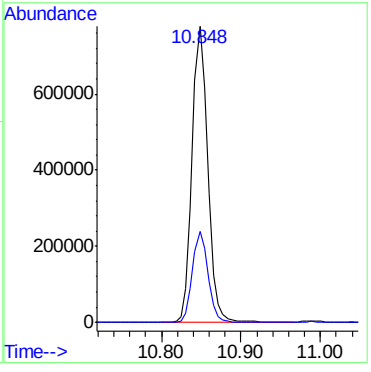


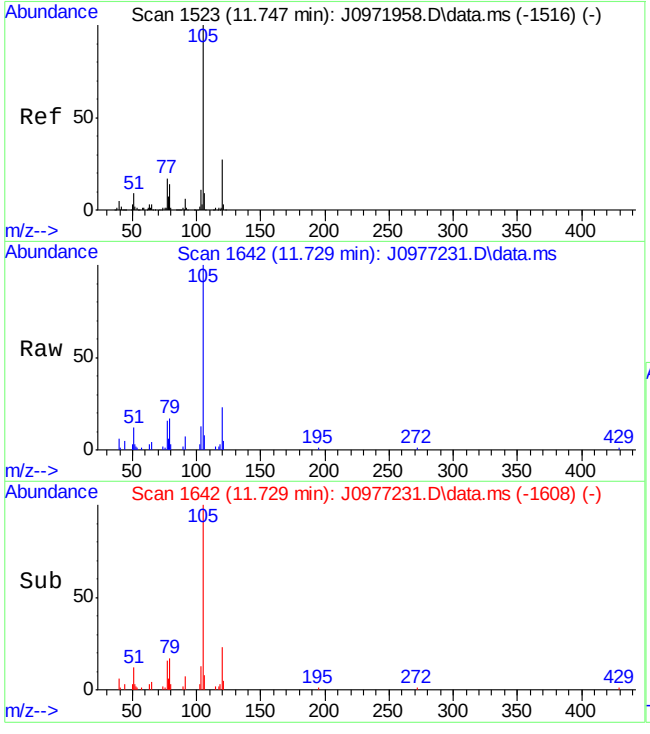


#70
Ethylbenzene
Concen: 68.07 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. -0.000 min
Lab File: J0977231.D
Acq: 16 Jun 2016 2:46 pm

Tgt Ion: 91 Resp: 1057132

Ion	Ratio	Lower	Upper
91	100		
106	30.9	2.1	62.1

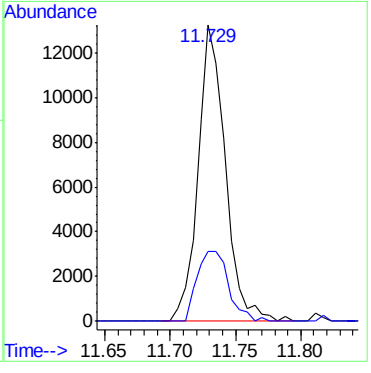


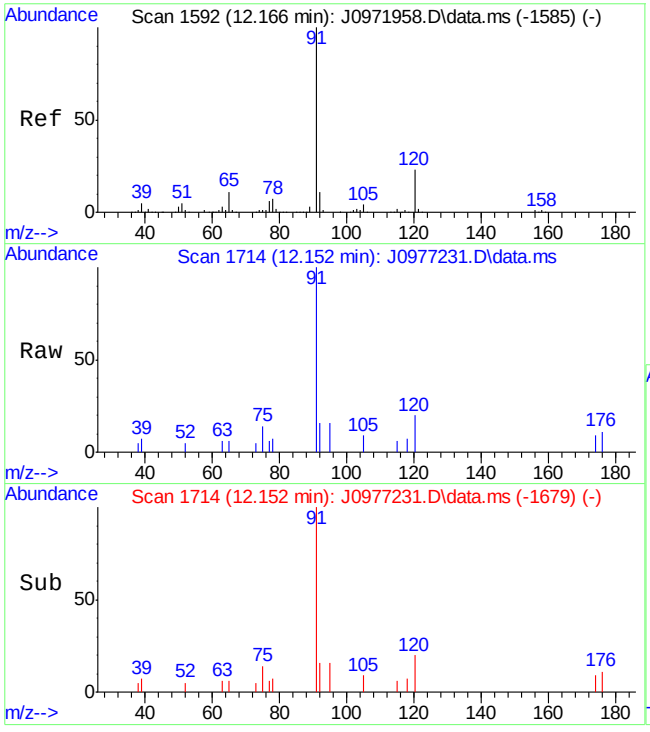


#77
Isopropylbenzene
Concen: 1.45 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977231.D
Acq: 16 Jun 2016 2:46 pm

Tgt Ion:105 Resp: 19289

Ion	Ratio	Lower	Upper
105	100		
120	23.5	0.0	55.6

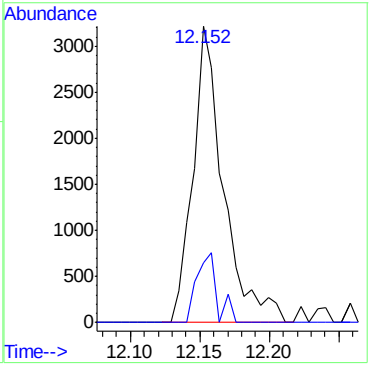


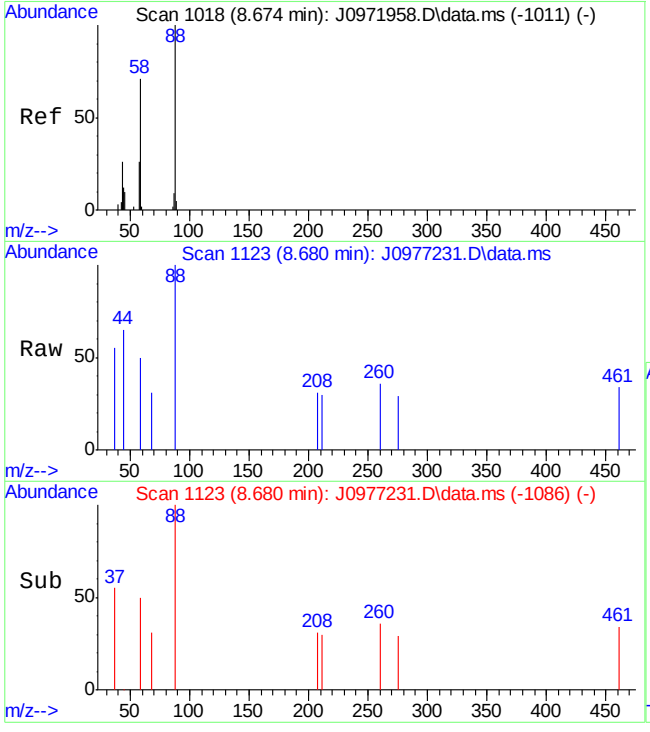


#81
n-Propylbenzene
Concen: 0.30 ug/L
RT: 12.152 min Scan# 1714
Delta R.T. 0.006 min
Lab File: J0977231.D
Acq: 16 Jun 2016 2:46 pm

Tgt Ion: 91 Resp: 4872

Ion	Ratio	Lower	Upper
91	100		
120	20.0	0.0	51.6

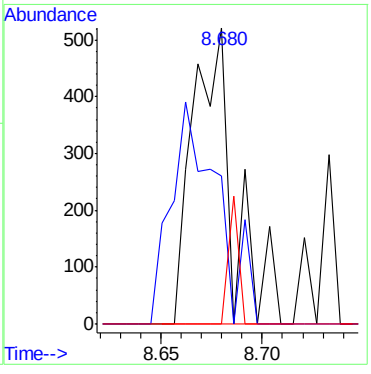




#112
1,4-Dioxane
Concen: 39.46 ug/L
RT: 8.680 min Scan# 1123
Delta R.T. 0.018 min
Lab File: J0977231.D
Acq: 16 Jun 2016 2:46 pm

Tgt Ion: 88 Resp: 732

Ion	Ratio	Lower	Upper
88	100		
58	50.1	35.2	95.2
43	0.0	0.0	52.8



7.1.9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977232.D
Acq On : 16 Jun 2016 3:10 pm
Operator : darshnap
Sample : fa34748-10 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 17 08:40:37 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	533347	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	409948	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	212082	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.296	65	39932	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	136737	52.06	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.12%			
46) 1,2-Dichloroethane-d4	7.464	65	172513	51.47	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.94%			
57) Toluene-d8	9.291	98	542552	49.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.58%			
79) 4-Bromofluorobenzene	12.041	95	209081	52.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.54%			
Target Compounds						Qvalue
76) Bromoform	11.541	173	379	0.26	ug/L #	52

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

7.1.10

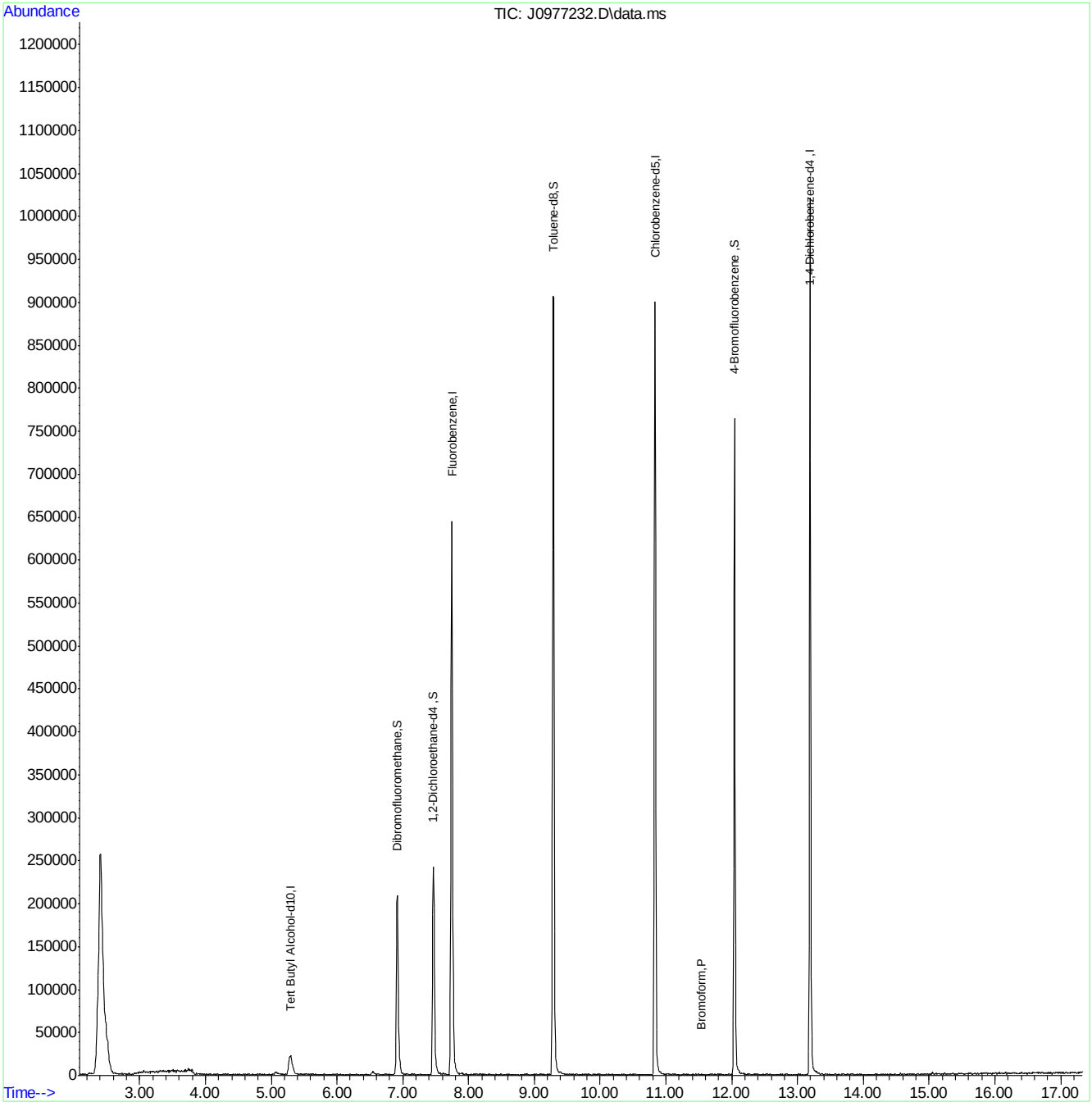
7

SGS ACCUTEST FA34748

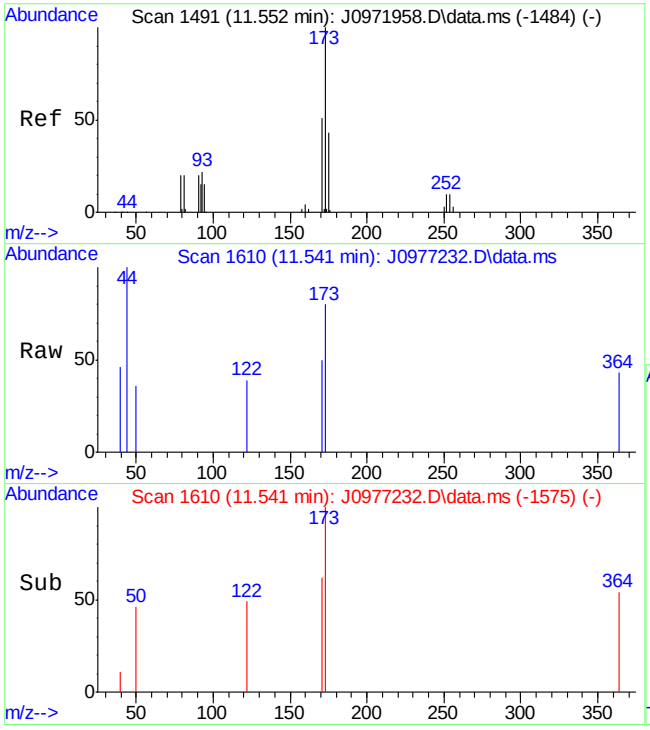
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977232.D
Acq On : 16 Jun 2016 3:10 pm
Operator : darshnap
Sample : fa34748-10 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 17 08:40:37 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



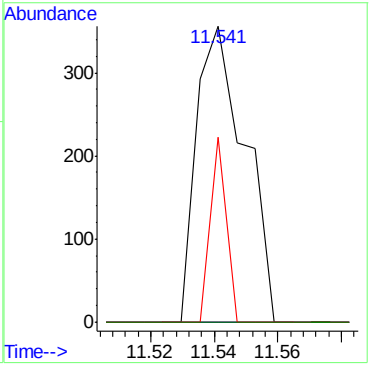
MSJ061416a.M Fri Jun 17 12:21:53 2016 Page: 2



#76
Bromoform
Concen: 0.26 ug/L
RT: 11.541 min Scan# 1610
Delta R.T. 0.006 min
Lab File: J0977232.D
Acq: 16 Jun 2016 3:10 pm

Tgt Ion:173 Resp: 379

Ion	Ratio	Lower	Upper
173	100		
175	0.0	16.7	76.7#
171	62.4	15.8	75.8
91	0.0	0.0	54.0



7.1.10

7

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977233.D
Acq On : 16 Jun 2016 3:33 pm
Operator : darshnap
Sample : fa34748-11 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 17 08:40:56 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	537914	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	394174	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	207891	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	40770	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	134862	50.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.82%			
46) 1,2-Dichloroethane-d4	7.464	65	171084	50.61	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.22%			
57) Toluene-d8	9.285	98	537607	51.32	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.64%			
79) 4-Bromofluorobenzene	12.041	95	202658	52.18	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.36%			

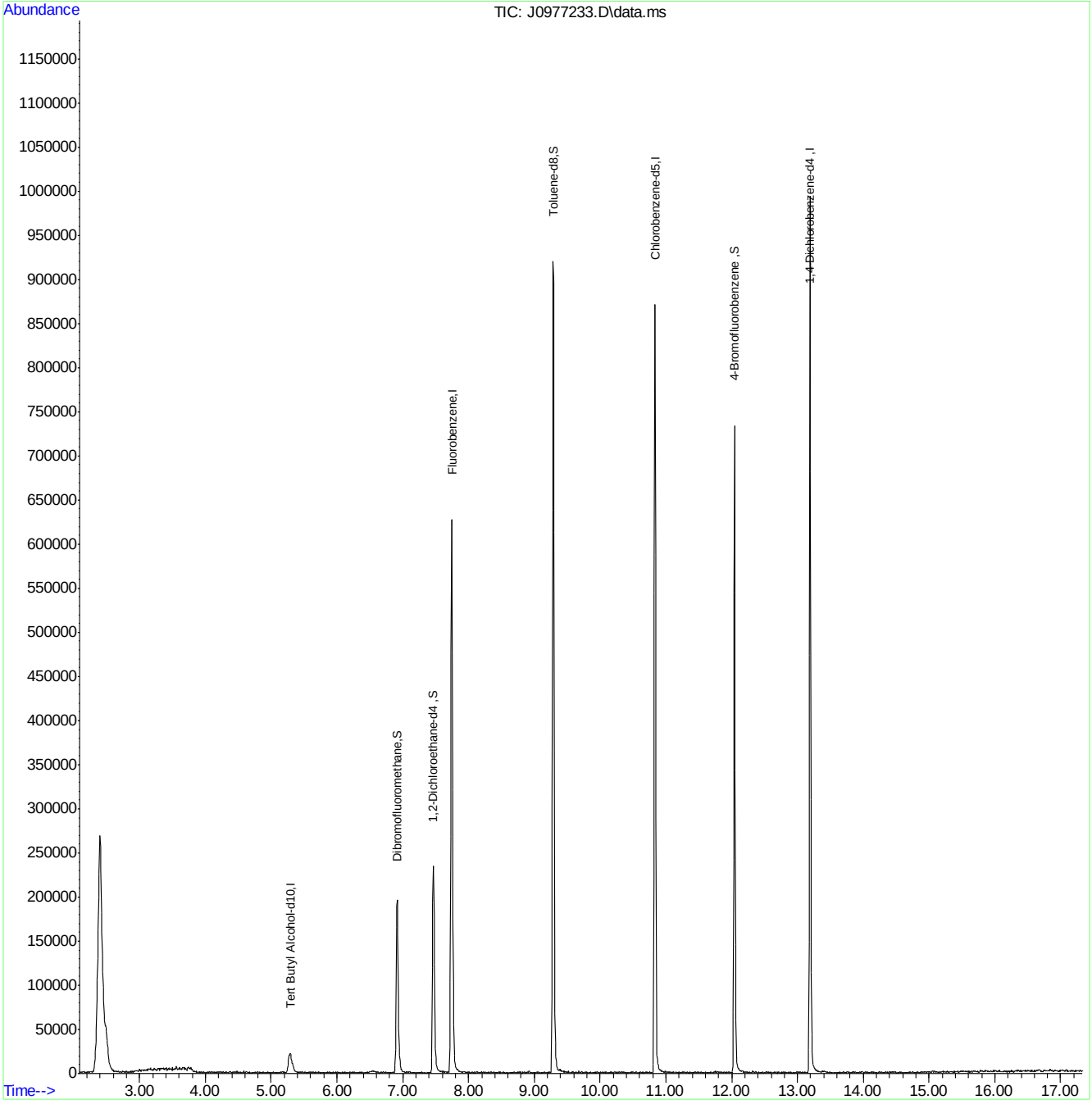
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977233.D
Acq On : 16 Jun 2016 3:33 pm
Operator : darshnap
Sample : fa34748-11 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 17 08:40:56 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



MSJ061416a.M Fri Jun 17 12:21:55 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977234.D
Acq On : 16 Jun 2016 3:56 pm
Operator : darshnap
Sample : fa34748-12 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 17 08:41:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	543266	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	402180	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	212893	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	39019	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	131862	49.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.58%			
46) 1,2-Dichloroethane-d4	7.470	65	176706	51.75	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.50%			
57) Toluene-d8	9.291	98	543286	50.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.66%			
79) 4-Bromofluorobenzene	12.041	95	210084	52.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.64%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.337	73	5554	0.66	ug/L	84
23) Di-isopropyl ether	5.707	45	17263	1.49	ug/L	79
44) Benzene	7.346	78	2988	0.25	ug/L	56
71) Chlorobenzene	10.854	112	3015	0.37	ug/L #	70
77) Isopropylbenzene	11.729	105	283856	22.39	ug/L	97
81) n-Propylbenzene	12.152	91	54799	3.49	ug/L	100

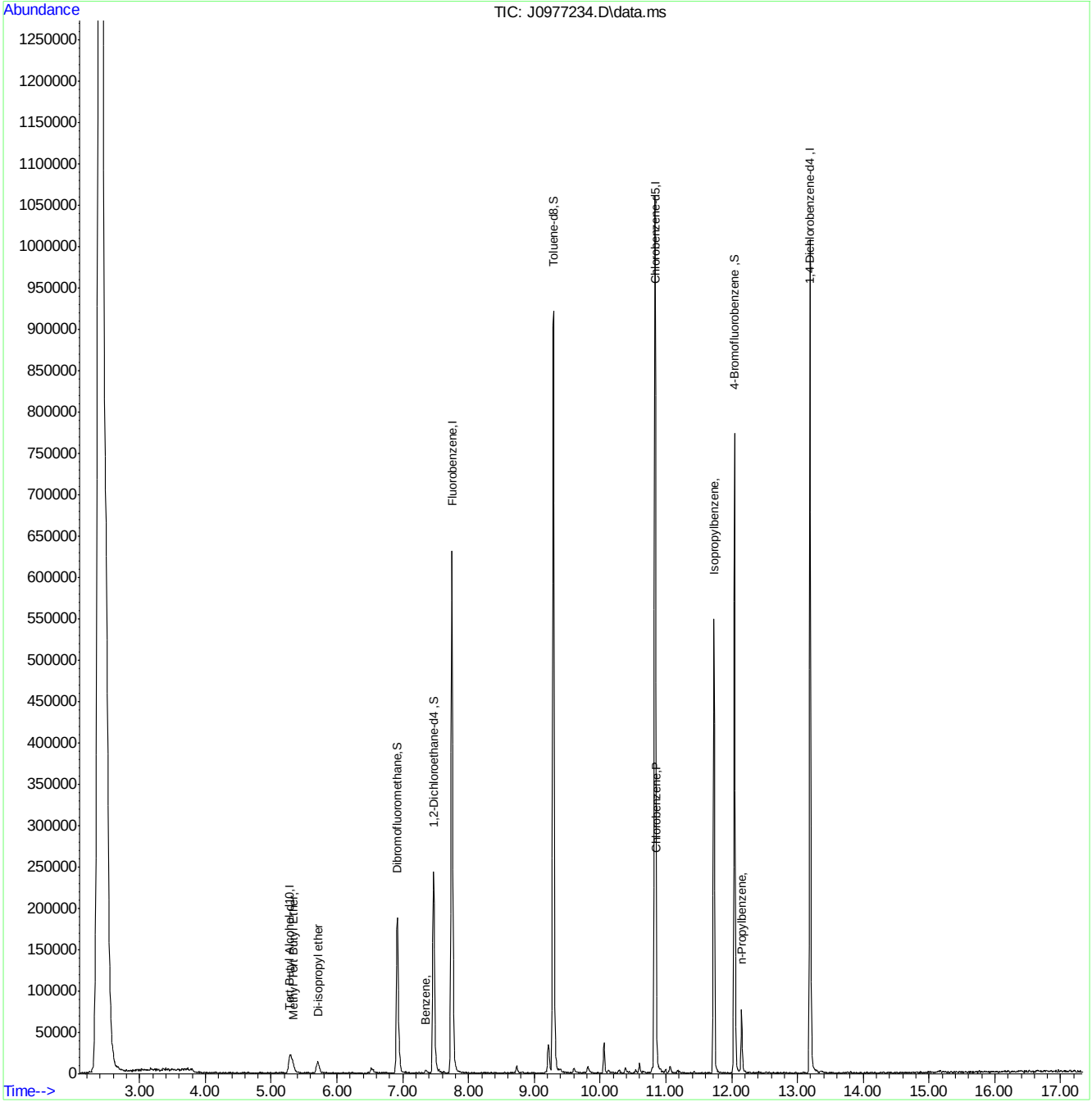
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34748

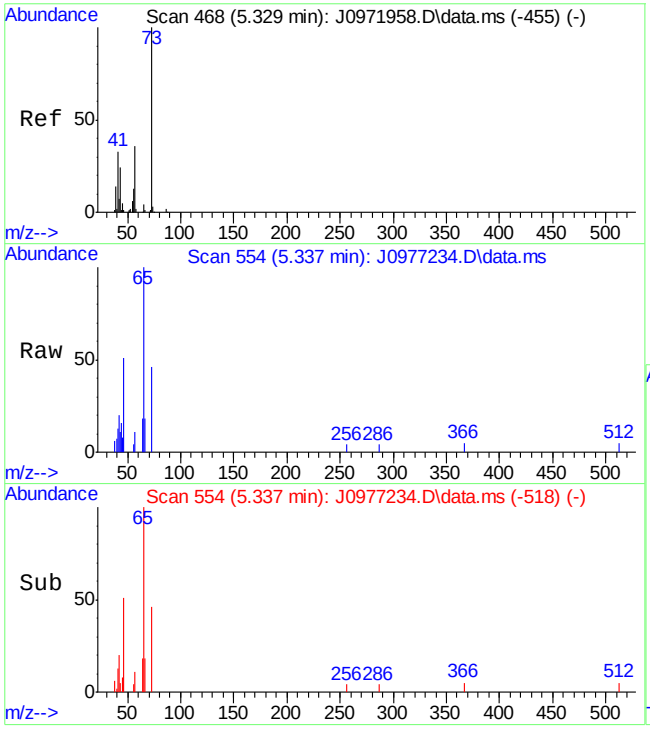
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977234.D
Acq On : 16 Jun 2016 3:56 pm
Operator : darshnap
Sample : fa34748-12 ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 17 08:41:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



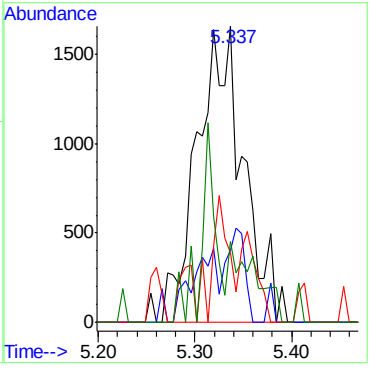
MSJ061416a.M Fri Jun 17 12:21:57 2016 Page: 2

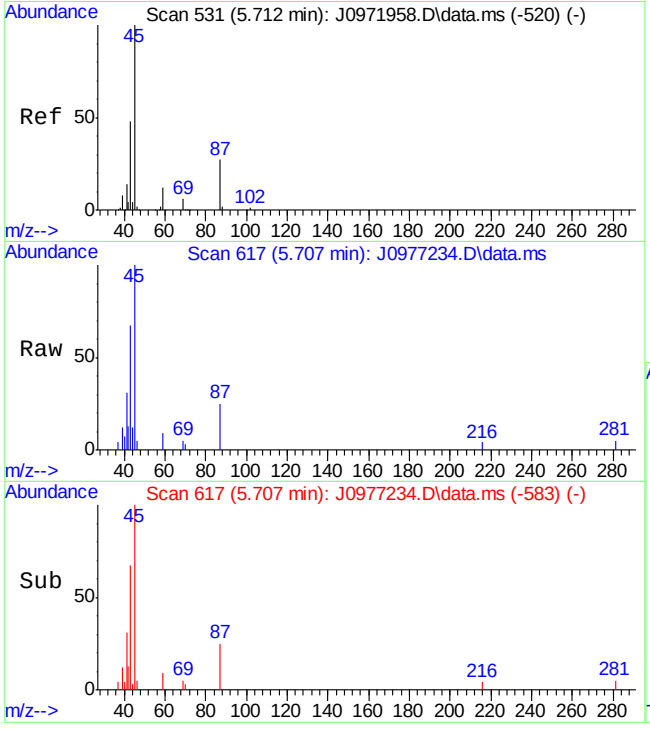


#21
Methyl Tert Butyl Ether
Concen: 0.66 ug/L
RT: 5.337 min Scan# 554
Delta R.T. 0.012 min
Lab File: J0977234.D
Acq: 16 Jun 2016 3:56 pm

Tgt Ion: 73 Resp: 5554

Ion	Ratio	Lower	Upper
73	100		
57	24.2	6.8	66.8
43	23.4	0.2	60.2
41	27.2	5.6	65.6

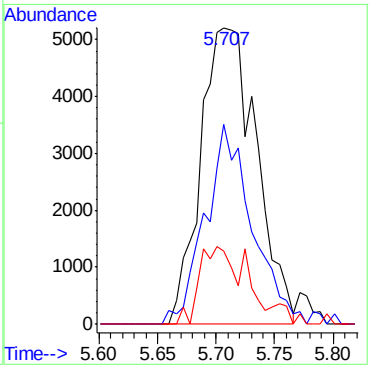


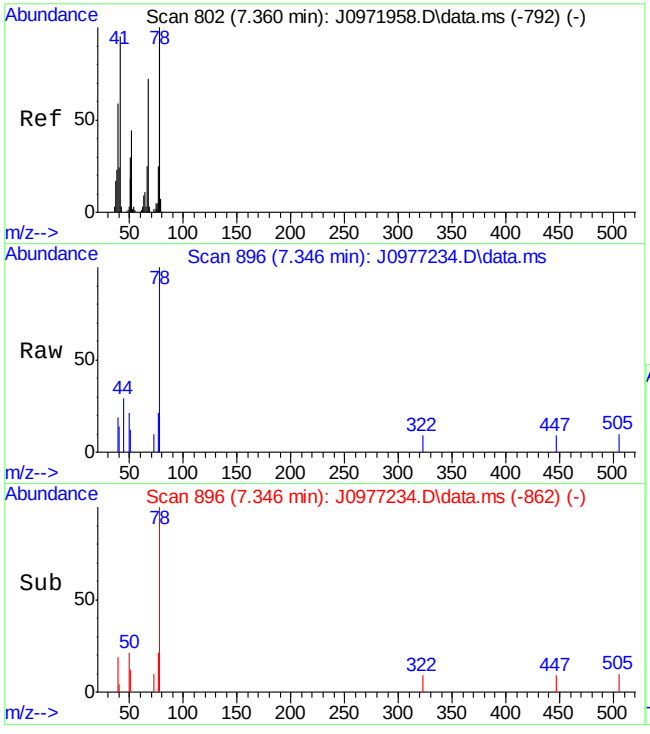


#23
Di-isopropyl ether
Concen: 1.49 ug/L
RT: 5.707 min Scan# 617
Delta R.T. -0.000 min
Lab File: J0977234.D
Acq: 16 Jun 2016 3:56 pm

Tgt Ion: 45 Resp: 17263

Ion	Ratio	Lower	Upper
45	100		
43	67.4	18.4	78.4
87	24.8	0.0	52.5

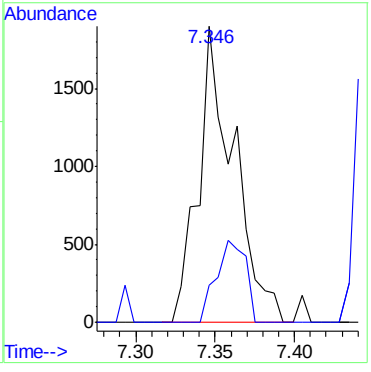


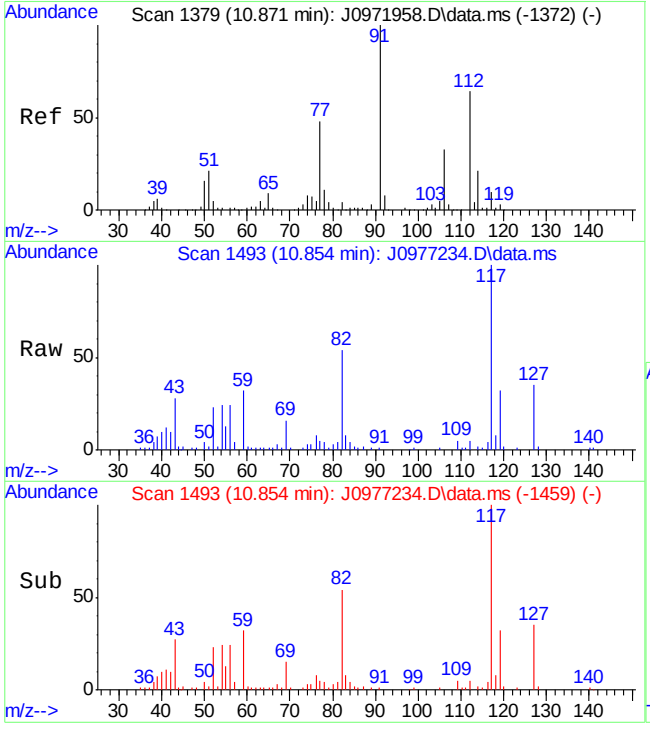


#44
Benzene
Concen: 0.25 ug/L
RT: 7.346 min Scan# 896
Delta R.T. 0.000 min
Lab File: J0977234.D
Acq: 16 Jun 2016 3:56 pm

Tgt Ion: 78 Resp: 2988

Ion	Ratio	Lower	Upper
78	100		
51	12.4	9.0	69.0

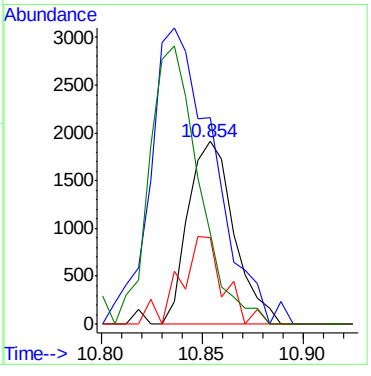


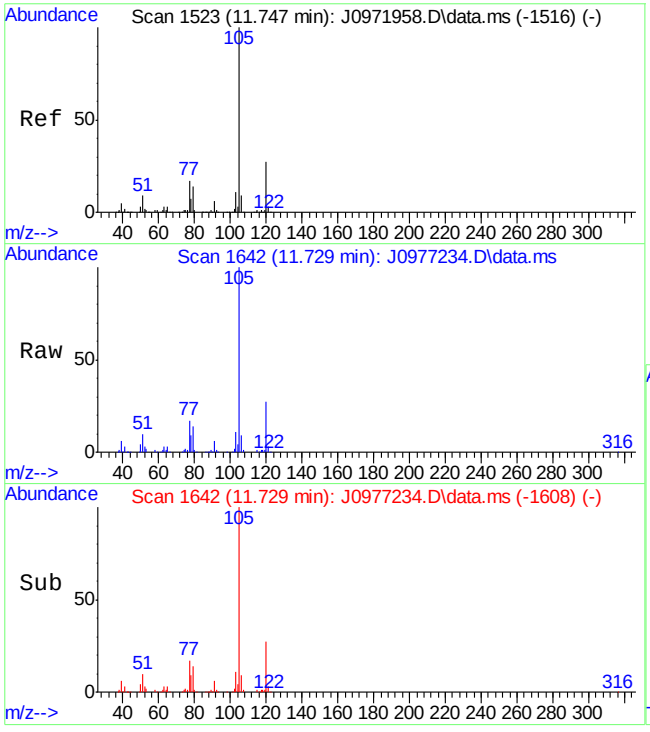


#71
Chlorobenzene
Concen: 0.37 ug/L
RT: 10.854 min Scan# 1493
Delta R.T. -0.000 min
Lab File: J0977234.D
Acq: 16 Jun 2016 3:56 pm

Tgt Ion:112 Resp: 3015

Ion	Ratio	Lower	Upper
112	100		
77	112.8	46.5	106.5#
114	47.5	2.2	62.2
51	49.6	12.4	72.4

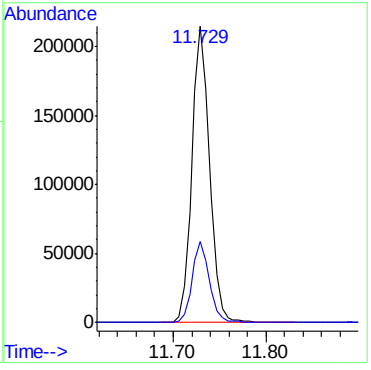


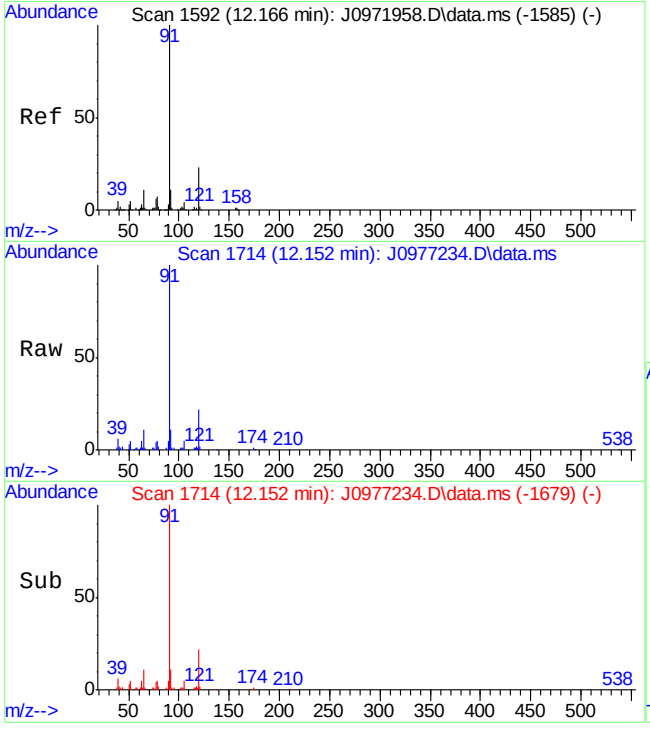


#77
Isopropylbenzene
Concen: 22.39 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977234.D
Acq: 16 Jun 2016 3:56 pm

Tgt Ion:105 Resp: 283856

Ion	Ratio	Lower	Upper
105	100		
120	27.3	0.0	55.6

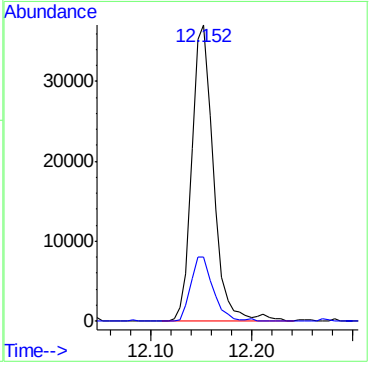




#81
n-Propylbenzene
Concen: 3.49 ug/L
RT: 12.152 min Scan# 1714
Delta R.T. 0.006 min
Lab File: J0977234.D
Acq: 16 Jun 2016 3:56 pm

Tgt Ion: 91 Resp: 54799

Ion	Ratio	Lower	Upper
91	100		
120	21.7	0.0	51.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977222.D
Acq On : 16 Jun 2016 10:50 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:32:19 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	605076	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	463780	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	242858	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	47077	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	154115	51.72	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.44%			
46) 1,2-Dichloroethane-d4	7.464	65	201844	53.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.16%			
57) Toluene-d8	9.285	98	615380	49.92	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.84%			
79) 4-Bromofluorobenzene	12.041	95	241923	53.32	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.64%			

Target Compounds Qvalue

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

7.2.1

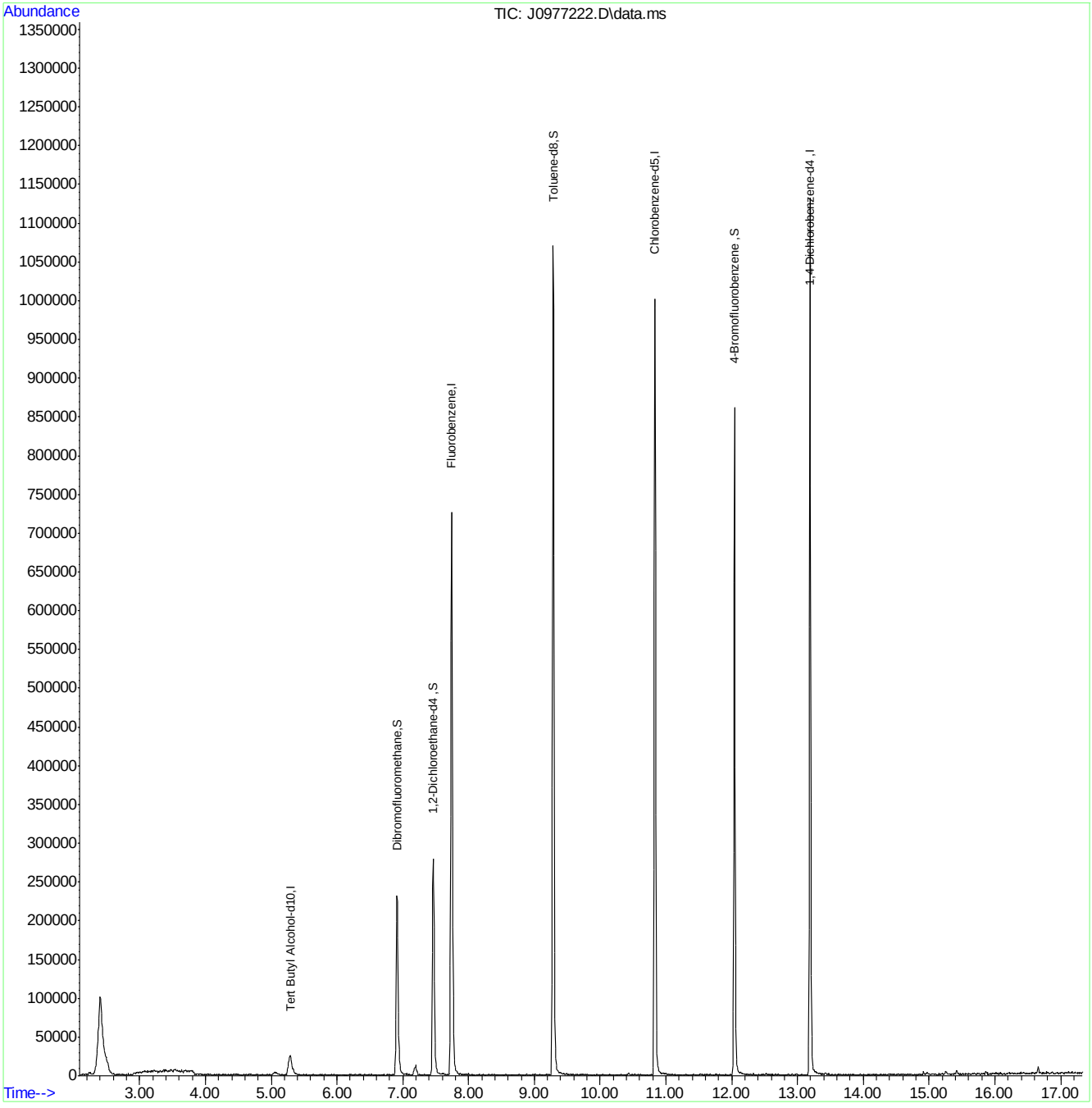
7

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977222.D
Acq On : 16 Jun 2016 10:50 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:32:19 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



MSJ061416a.M Fri Jun 17 12:30:21 2016 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/17/16 12:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977221.D
Acq On : 16 Jun 2016 10:27 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 10:57:43 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	629554	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	473414	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	271874	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	53091	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	159859	51.56	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.12%			
46) 1,2-Dichloroethane-d4	7.464	65	204276	51.63	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.26%			
57) Toluene-d8	9.285	98	633185	50.32	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.64%			
79) 4-Bromofluorobenzene	12.041	95	253394	49.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.78%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.687	85	106600	38.82	ug/L	99
3) Chloromethane	2.886	50	145483	29.75	ug/L	96
4) Vinyl Chloride	3.033	62	130659	29.10	ug/L	90
5) 1,3-Butadiene	3.022	54	11976	4.12	ug/L #	69
6) Bromomethane	3.451	94	83106	27.01	ug/L	93
7) Chloroethane	3.609	64	71531	28.42	ug/L	87
8) Trichlorofluoromethane	3.832	101	162563m	29.24	ug/L	
9) Ethyl Ether	4.109	59	75340	24.66	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.344	67	125916	31.53	ug/L	94
11) 1,1-Dichloroethene	4.385	61	165804	29.83	ug/L	96
12) Freon 113	4.455	101	97545	28.52	ug/L	98
13) Carbon Disulfide	4.461	76	337972	28.21	ug/L	99
14) Iodomethane	4.573	142	155773	26.89	ug/L	95
15) Allyl chloride	4.908	41	130145	24.73	ug/L	94
16) Methylene Chloride	5.031	49	167079	29.75	ug/L	97
17) Acetone	5.055	58	28747	129.82	ug/L	93
18) Methyl acetate	5.172	74	50936	126.33	ug/L #	73
19) trans-1,2-Dichloroethene	5.213	61	160053	30.95	ug/L	94
20) Hexane	5.284	56	96764	29.14	ug/L	92
21) Methyl Tert Butyl Ether	5.325	73	249963	25.80	ug/L	89
22) Acetonitrile	5.583	40	39445	238.35	ug/L #	82
23) Di-isopropyl ether	5.701	45	333152	24.73	ug/L	99
24) Chloroprene	5.854	53	139509	26.46	ug/L	96
25) 1,1-Dichloroethane	5.883	63	182313	28.76	ug/L	98
26) Acrylonitrile	5.912	53	133341	125.53	ug/L	100
27) ETBE	6.100	59	304464	24.45	ug/L	95
28) Vinyl acetate	6.089	43	743616	108.88	ug/L	99
29) cis-1,2-Dichloroethene	6.459	96	98150	25.54	ug/L	97
30) 2,2-Dichloropropane	6.594	77	137339	29.16	ug/L	100
31) Bromochloromethane	6.670	128	44098	27.28	ug/L	95
32) Cyclohexane	6.717	56	186930	28.44	ug/L	96
33) Chloroform	6.723	83	179126	27.60	ug/L	96
34) Ethyl acetate	6.788	43	314072	117.09	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977221.D
Acq On : 16 Jun 2016 10:27 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 10:57:43 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	21060	28.23 ug/L #	78
37) Carbon Tetrachloride	6.917	117	132339m	29.58 ug/L	
38) 1,1,1-Trichloroethane	6.976	97	151290	27.44 ug/L	99
39) 2-Butanone	7.005	43	130932	115.30 ug/L	98
40) 1,1-Dichloropropene	7.088	75	122881	27.53 ug/L	98
41) tert-Butyl Formate	7.176	59	773772	295.35 ug/L	97
42) Propionitrile	7.317	54	89146	257.29 ug/L	91
43) Methacrylonitrile	7.346	41	404254	232.36 ug/L	97
44) Benzene	7.340	78	370953	26.09 ug/L	97
45) TAME	7.417	73	242704	25.33 ug/L	98
47) 1,2-Dichloroethane	7.534	62	124360	25.85 ug/L	98
48) Trichloroethene	7.916	95	95275	26.05 ug/L	95
49) Methylcyclohexane	7.939	83	184560	29.78 ug/L	96
50) Dibromomethane	8.345	93	48880	24.63 ug/L	94
51) 1,2-Dichloropropane	8.433	63	93318	25.03 ug/L	98
52) Bromodichloromethane	8.480	83	115344	25.50 ug/L	96
53) Methyl methacrylate	8.580	41	62175	26.57 ug/L	96
54) 2-Chloroethyl vinyl ether	8.991	63	242814	120.10 ug/L	97
55) cis-1,3-Dichloropropene	9.097	75	135405	25.01 ug/L	95
58) Toluene	9.338	91	385109	25.35 ug/L	98
59) 2-Nitropropane	9.544	41	86807	127.51 ug/L	96
60) 4-Methyl-2-pentanone	9.661	43	310698	113.82 ug/L	96
61) trans-1,3-Dichloropropene	9.726	75	121947	27.96 ug/L	99
62) Tetrachloroethene	9.743	166	111749	30.68 ug/L	97
63) Ethyl methacrylate	9.826	69	74683	21.05 ug/L	98
64) 1,1,2-Trichloroethane	9.890	83	61478	24.47 ug/L	93
65) Dibromochloromethane	10.084	129	78595	26.06 ug/L	97
66) 1,3-Dichloropropane	10.166	76	118159	23.93 ug/L	94
67) 1,2-Dibromoethane	10.348	107	69633	26.23 ug/L	97
68) 2-hexanone	10.478	43	213627	111.61 ug/L	97
69) 1-Chlorohexane	10.783	91	123203	27.69 ug/L	97
70) Ethylbenzene	10.848	91	461037	26.17 ug/L	97
71) Chlorobenzene	10.854	112	251876	26.25 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.901	131	86810	26.01 ug/L	97
73) m,p-Xylene	10.983	91	719976	53.29 ug/L	100
74) o-Xylene	11.424	91	358886	27.03 ug/L	99
75) Styrene	11.471	104	261916	26.45 ug/L	96
76) Bromoform	11.535	173	44498	25.43 ug/L	89
77) Isopropylbenzene	11.729	105	437686	29.33 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.076	53	18955	32.48 ug/L	84
81) n-Propylbenzene	12.146	91	554627	27.65 ug/L	100
82) Bromobenzene	12.170	156	107311	25.15 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.205	83	88859	24.70 ug/L	98
84) 1,3,5-Trimethylbenzene	12.329	105	382227	25.78 ug/L	100
85) 2-Chlorotoluene	12.340	91	373226	26.40 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.387	53	21314	34.67 ug/L #	72
87) 1,2,3-Trichloropropane	12.370	110	23422	25.61 ug/L	96
88) Cyclohexanone	12.428	55	11065	98.93 ug/L	92
89) 4-Chlorotoluene	12.505	91	334070	26.17 ug/L	99
90) a-Methyl Styrene	12.669	118	2142	0.30 ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977221.D
Acq On : 16 Jun 2016 10:27 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 10:57:43 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	218971	26.60	ug/L		100
92)	1,2,4-Trimethylbenzene	12.740	105	379789	25.79	ug/L		100
93)	Pentachloroethane	12.722	167	51083	22.22	ug/L		94
94)	sec-Butylbenzene	12.857	105	483287	28.36	ug/L		98
95)	4-Isopropyltoluene	12.987	119	394680	27.66	ug/L		100
96)	1,3-Dichlorobenzene	13.122	146	218107	26.19	ug/L		96
97)	1,4-Dichlorobenzene	13.204	146	218417	25.54	ug/L		95
98)	n-Butylbenzene	13.421	92	226913	27.44	ug/L		94
99)	Benzyl Chloride	13.433	126	26451	23.07	ug/L	#	90
100)	1,2-Dichlorobenzene	13.633	146	199258	24.89	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.367	75	10641	22.82	ug/L		93
102)	Hexachlorobutadiene	14.914	225	70527	26.01	ug/L		91
103)	1,2,4-Trichlorobenzene	14.961	180	134625	26.86	ug/L		99
104)	Naphthalene	15.243	128	206710	31.09	ug/L		97
105)	1,2,3-Trichlorobenzene	15.413	180	110735	28.20	ug/L		96
107)	Ethanol	4.267	45	15608m	490.45	ug/L		
108)	acrolein	4.749	56	65013	103.02	ug/L		99
109)	Tert Butyl Alcohol	5.366	59	68778	236.99	ug/L		95
110)	tert Amyl alcohol	7.563	59	48589	213.60	ug/L		97
111)	Isobutyl alcohol	7.440	42	44018	409.54	ug/L	#	74
112)	1,4-Dioxane	8.656	88	11481	497.94	ug/L		95
113)	3,3-Dimethyl-1-butanol	10.419	57	301042	1100.81	ug/L		99

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

7.3.1

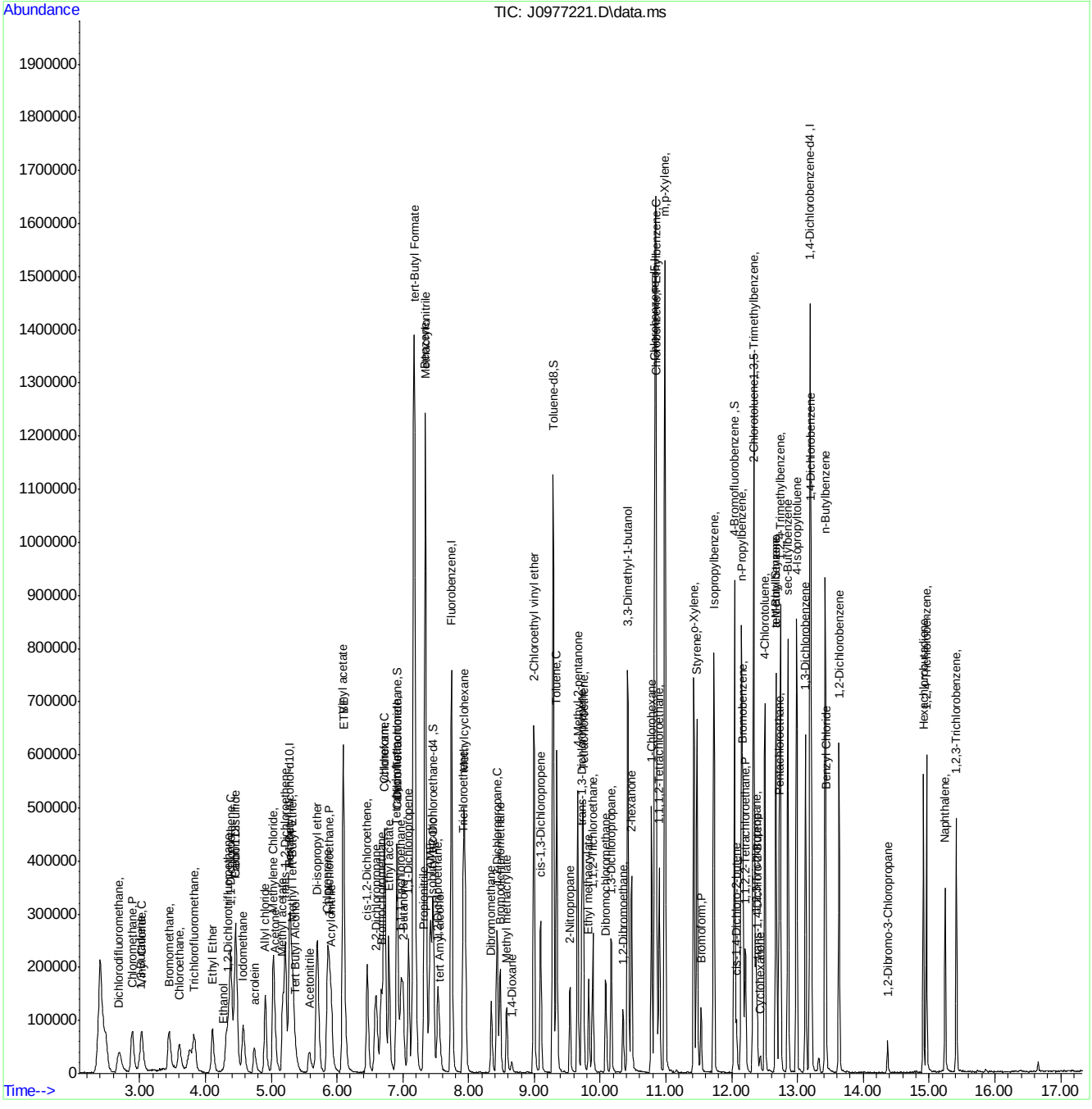
7

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977221.D
Acq On : 16 Jun 2016 10:27 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 10:57:43 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



MSJ061416a.M Fri Jun 17 12:30:06 2016 Page: 4

SGS ACCUTEST FA34748

Manual Integration Approval Summary

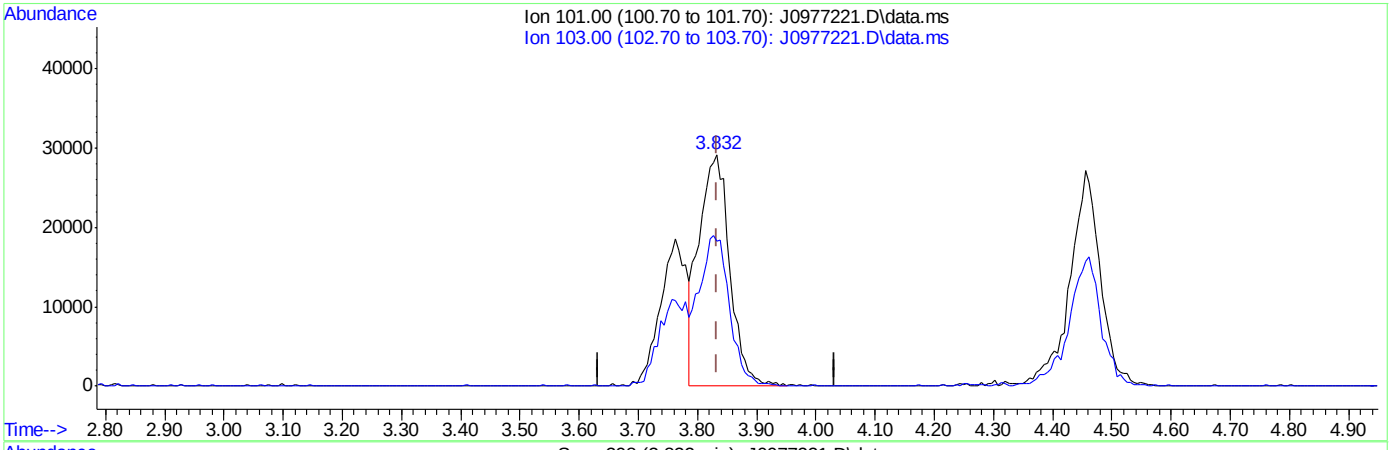
Sample Number:	VJ5336-BS	**Method:**	SW846 8260C
Lab FileID:	J0977221.D	**Analyst approved:**	06/17/16 12:39 Darshna Patel
Injection Time:	06/16/16 10:27	**Supervisor approved:**	06/17/16 12:59 Juan Garcia

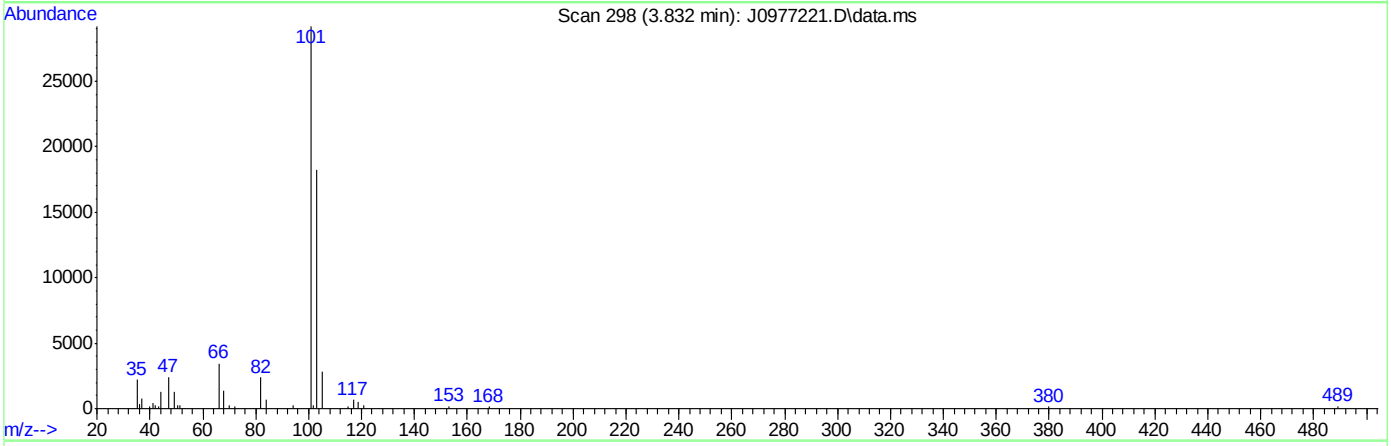
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977221.D
Acq On : 16 Jun 2016 10:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 10:57:17 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.832min (-0.001) 18.87ug/L

response 105450

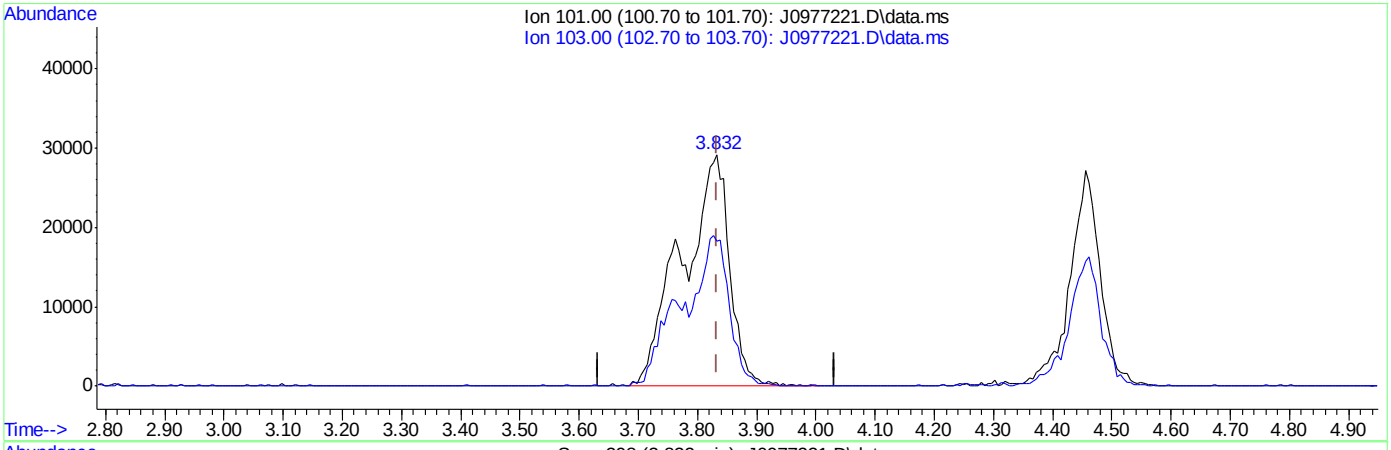
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	62.43
0.00	0.00	0.00
0.00	0.00	0.00

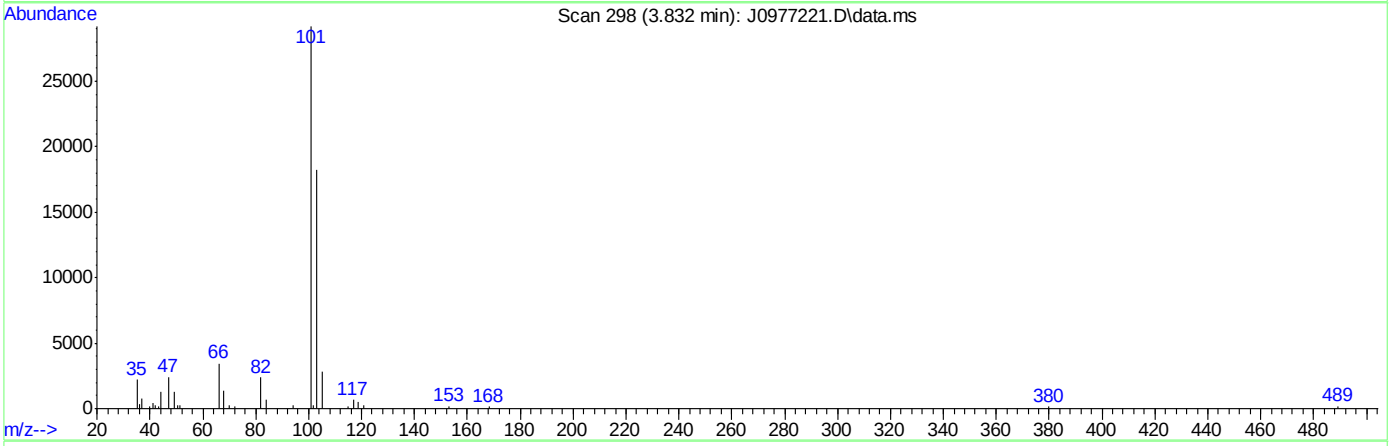
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977221.D
Acq On : 16 Jun 2016 10:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 10:57:17 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977221.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.001) 29.24ug/L m

response 162563

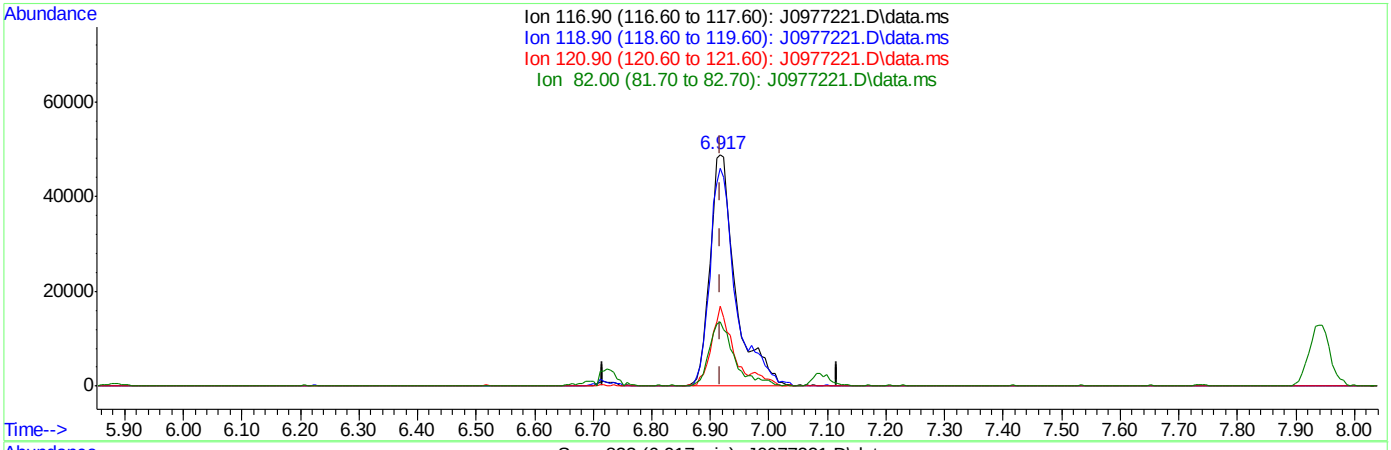
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	62.43
0.00	0.00	0.00
0.00	0.00	0.00

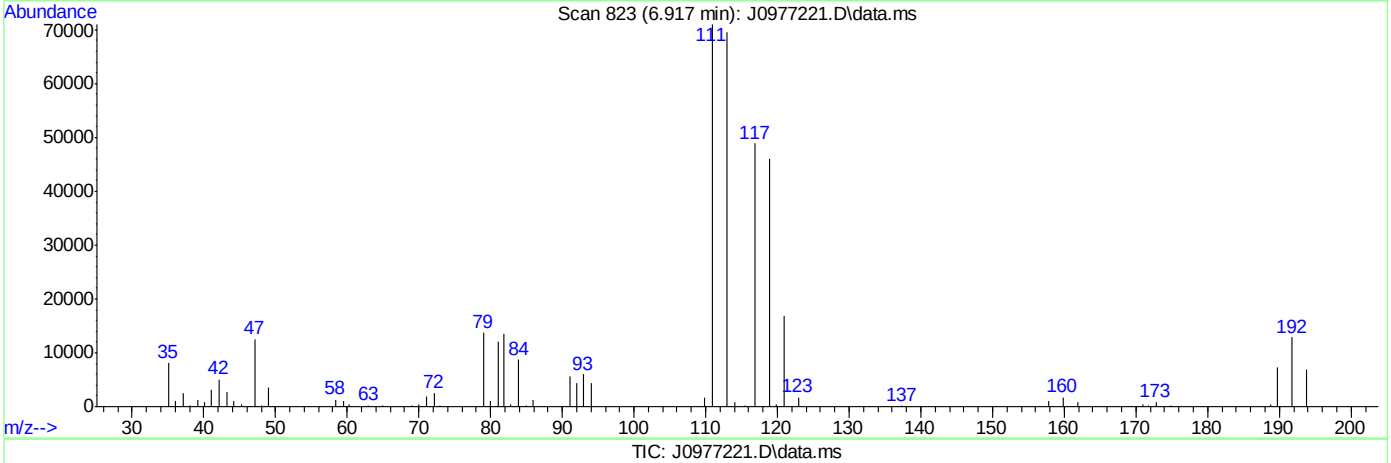
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977221.D
Acq On : 16 Jun 2016 10:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 10:57:17 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977221.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 33.25ug/L

response 148765

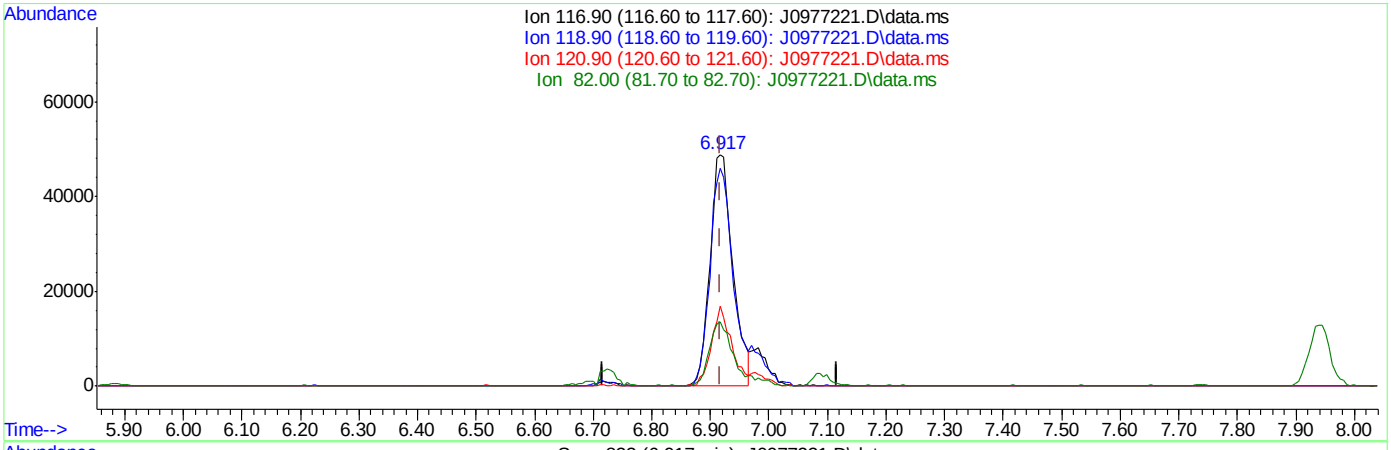
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	94.20
120.90	30.90	34.36
82.00	25.70	27.52

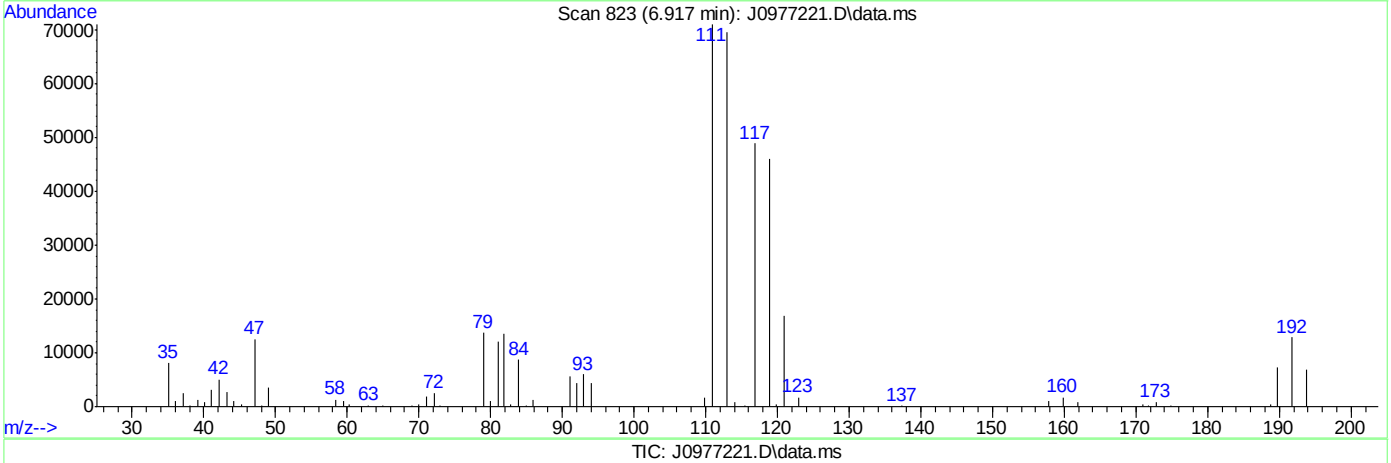
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977221.D
Acq On : 16 Jun 2016 10:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 10:57:17 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977221.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 29.58ug/L m

response 132339

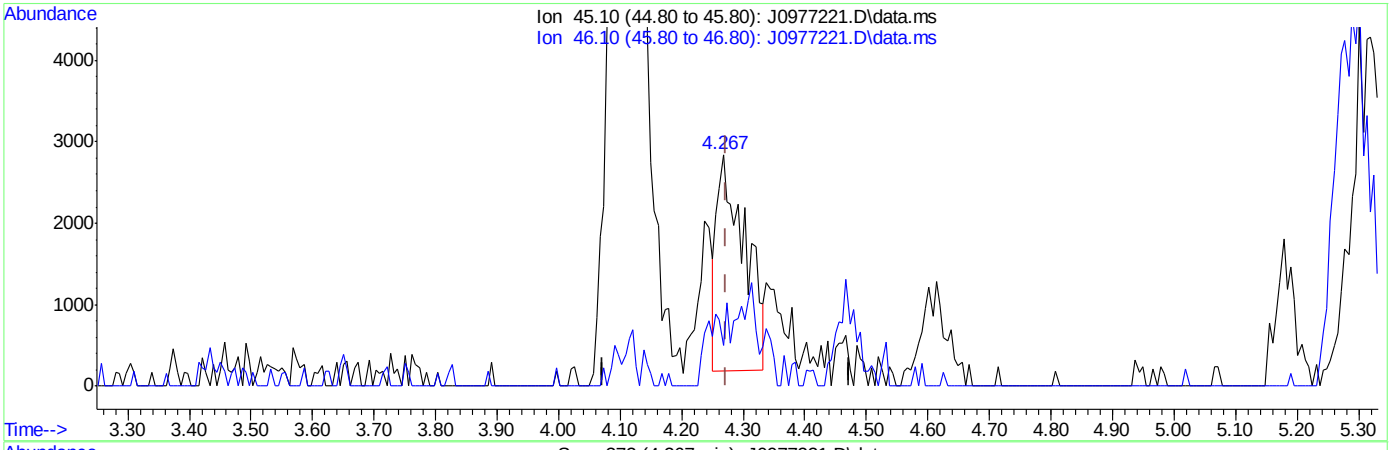
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	94.20
120.90	30.90	34.36
82.00	25.70	27.52

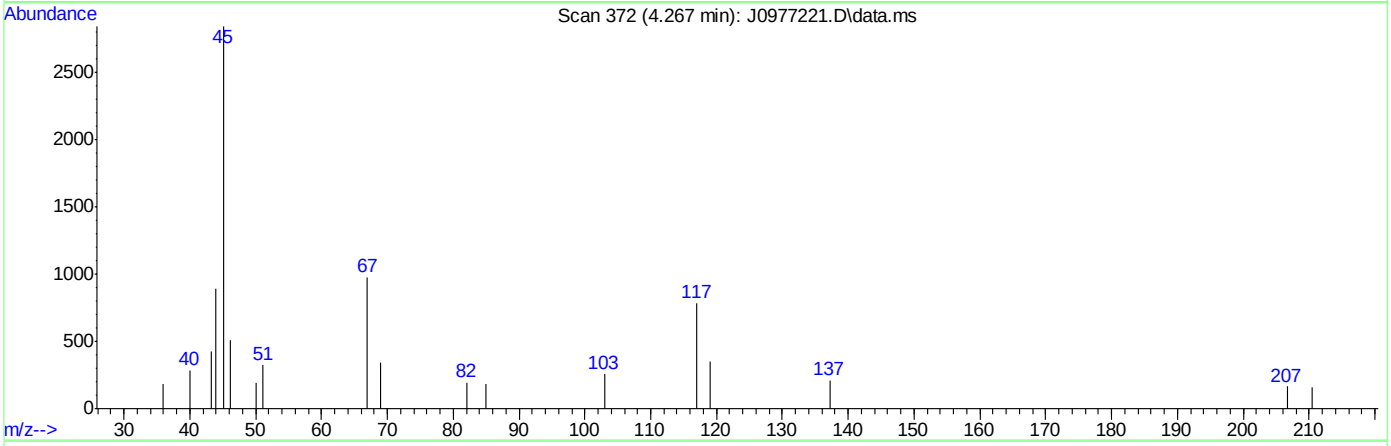
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977221.D
Acq On : 16 Jun 2016 10:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 10:57:17 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977221.D\data.ms

(107) Ethanol

4.267min (-0.006) 260.55ug/L

response 8350

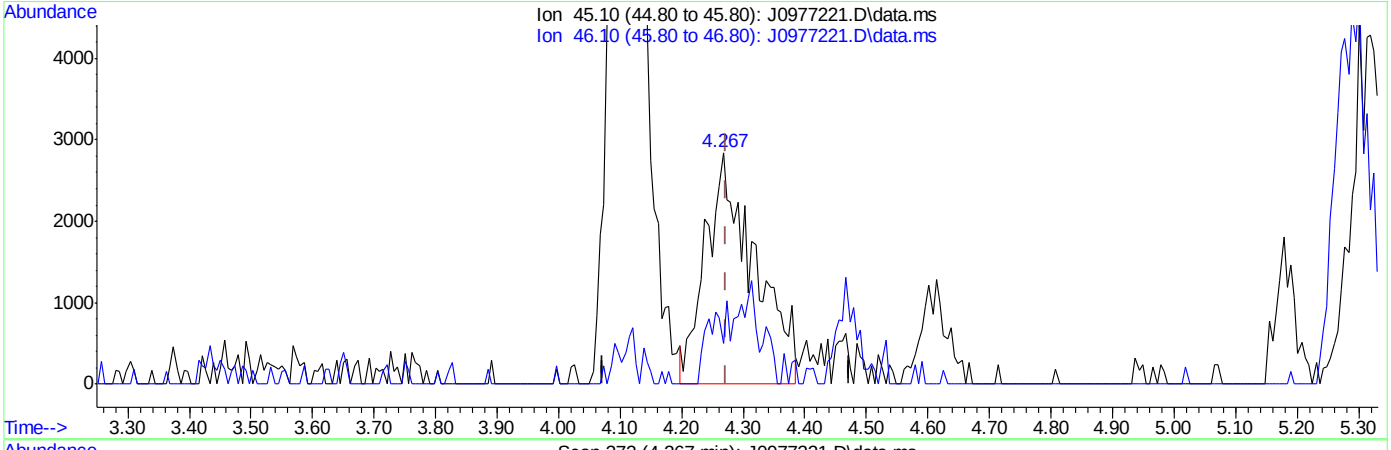
Ion	Exp%	Act%
45.10	100	100
46.10	20.50	0.82
0.00	0.00	0.00
0.00	0.00	0.00

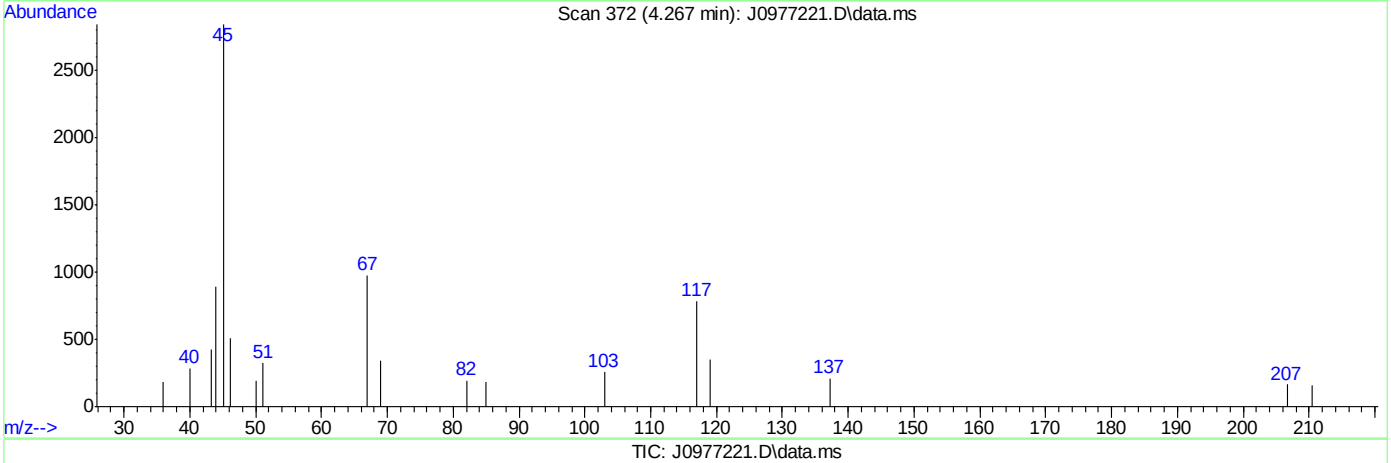
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977221.D
Acq On : 16 Jun 2016 10:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 16 10:57:17 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977221.D\data.ms

(107) Ethanol

4.267min (-0.006) 490.45ug/L m

response 15608

Ion	Exp%	Act%
45.10	100	100
46.10	20.50	17.83
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/17/16 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977243.D
Acq On : 16 Jun 2016 7:23 pm
Operator : darshnap
Sample : fa34748-1ms ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 08:48:00 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	519242	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	396019	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	221603	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	37403	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	130592	51.07	ug/L	-0.01
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.14%			
46) 1,2-Dichloroethane-d4	7.464	65	165371	50.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.36%			
57) Toluene-d8	9.285	98	514117	48.84	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.68%			
79) 4-Bromofluorobenzene	12.041	95	206281	49.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	77664	34.27	ug/L	98
3) Chloromethane	2.886	50	125698	31.19	ug/L	92
4) Vinyl Chloride	3.022	62	116269	31.46	ug/L	94
5) 1,3-Butadiene	3.010	54	33155	13.82	ug/L	94
6) Bromomethane	3.445	94	77616	30.91	ug/L	97
7) Chloroethane	3.597	64	67102	32.95	ug/L	96
8) Trichlorofluoromethane	3.827	101	142880m	31.19	ug/L	
9) Ethyl Ether	4.103	59	56495	22.43	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.332	67	90812	27.57	ug/L	94
11) 1,1-Dichloroethene	4.379	61	119441	26.06	ug/L	96
12) Freon 113	4.455	101	68133	24.16	ug/L	94
13) Carbon Disulfide	4.461	76	209549	21.20	ug/L	95
14) Iodomethane	4.567	142	109207	22.87	ug/L	92
15) Allyl chloride	4.908	41	87568	20.32	ug/L	93
16) Methylene Chloride	5.031	49	111055	23.93	ug/L	90
17) Acetone	5.055	58	21306	116.90	ug/L	88
18) Methyl acetate	5.172	74	34900	104.95	ug/L #	75
19) trans-1,2-Dichloroethene	5.213	61	111166	26.07	ug/L	97
20) Hexane	5.284	56	92171	33.65	ug/L	90
21) Methyl Tert Butyl Ether	5.313	73	406772	50.91	ug/L	96
22) Acetonitrile	5.577	40	33253	243.54	ug/L	89
23) Di-isopropyl ether	5.695	45	241507	21.75	ug/L	99
24) Chloroprene	5.854	53	109360	25.23	ug/L	98
25) 1,1-Dichloroethane	5.877	63	132651	25.43	ug/L	98
26) Acrylonitrile	5.906	53	102560	117.06	ug/L	95
27) ETBE	6.100	59	214444	20.88	ug/L	97
28) Vinyl acetate	6.089	43	563506	100.04	ug/L	100
29) cis-1,2-Dichloroethene	6.459	96	73161	23.09	ug/L	98
30) 2,2-Dichloropropane	6.594	77	86074	22.16	ug/L	100
31) Bromochloromethane	6.670	128	31842	23.92	ug/L	89
32) Cyclohexane	6.717	56	142734	26.37	ug/L	87
33) Chloroform	6.723	83	130237	24.36	ug/L	95
34) Ethyl acetate	6.788	43	224070	101.29	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977243.D
Acq On : 16 Jun 2016 7:23 pm
Operator : darshnap
Sample : fa34748-1ms ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 08:48:00 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.899	42	18243	29.62 ug/L	91
37) Carbon Tetrachloride	6.917	117	95440m	25.86 ug/L	
38) 1,1,1-Trichloroethane	6.976	97	110500	24.30 ug/L	96
39) 2-Butanone	7.005	43	104504	111.58 ug/L	95
40) 1,1-Dichloropropene	7.087	75	88483	24.03 ug/L	96
41) tert-Butyl Formate	7.170	59	13897	6.61 ug/L #	79
42) Propionitrile	7.317	54	70038	245.08 ug/L	93
43) Methacrylonitrile	7.340	41	320791	223.56 ug/L	99
44) Benzene	7.340	78	278628	23.78 ug/L	99
45) TAME	7.417	73	165812	20.98 ug/L	95
47) 1,2-Dichloroethane	7.534	62	92302	23.26 ug/L	97
48) Trichloroethene	7.922	95	70305	23.30 ug/L	94
49) Methylcyclohexane	7.939	83	131622	25.84 ug/L	94
50) Dibromomethane	8.345	93	36682	22.41 ug/L	95
51) 1,2-Dichloropropane	8.433	63	69809	22.73 ug/L	93
52) Bromodichloromethane	8.480	83	78397	21.09 ug/L	99
53) Methyl methacrylate	8.580	41	45336	23.60 ug/L	93
55) cis-1,3-Dichloropropene	9.091	75	86306	19.32 ug/L	96
58) Toluene	9.338	91	287967	22.66 ug/L	99
59) 2-Nitropropane	9.543	41	59226	103.99 ug/L	93
60) 4-Methyl-2-pentanone	9.661	43	270463	118.44 ug/L	97
61) trans-1,3-Dichloropropene	9.720	75	77813	21.33 ug/L	96
62) Tetrachloroethene	9.743	166	76274	25.03 ug/L	92
63) Ethyl methacrylate	9.825	69	56320	19.03 ug/L	96
64) 1,1,2-Trichloroethane	9.890	83	46639	22.20 ug/L	97
65) Dibromochloromethane	10.090	129	47152	18.69 ug/L	99
66) 1,3-Dichloropropane	10.166	76	88138	21.33 ug/L	90
67) 1,2-Dibromoethane	10.348	107	49448	22.27 ug/L	97
68) 2-hexanone	10.478	43	185533	115.88 ug/L	100
69) 1-Chlorohexane	10.783	91	89424	24.10 ug/L	93
70) Ethylbenzene	10.848	91	347071	23.53 ug/L	98
71) Chlorobenzene	10.848	112	194901	24.28 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.901	131	66822	23.94 ug/L	97
73) m,p-Xylene	10.983	91	534220	47.17 ug/L	99
74) o-Xylene	11.424	91	262752	23.66 ug/L	99
75) Styrene	11.471	104	172469	20.82 ug/L	97
76) Bromoform	11.535	173	22827	15.71 ug/L	92
77) Isopropylbenzene	11.729	105	736760	59.01 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.076	53	6055	14.00 ug/L #	80
81) n-Propylbenzene	12.146	91	614237	37.57 ug/L	99
82) Bromobenzene	12.170	156	79208	22.79 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.205	83	63758	21.74 ug/L	93
84) 1,3,5-Trimethylbenzene	12.328	105	278225	23.02 ug/L	100
85) 2-Chlorotoluene	12.334	91	273804	23.78 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.393	53	7175	15.53 ug/L #	70
87) 1,2,3-Trichloropropane	12.370	110	16848	22.60 ug/L	93
88) Cyclohexanone	12.428	55	8043	88.15 ug/L	93
89) 4-Chlorotoluene	12.505	91	241467	23.23 ug/L	100
90) a-Methyl Styrene	12.734	118	2496	0.43 ug/L #	1
91) tert-Butylbenzene	12.669	91	165979	24.74 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977243.D
Acq On : 16 Jun 2016 7:23 pm
Operator : darshnap
Sample : fa34748-1ms ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 08:48:00 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

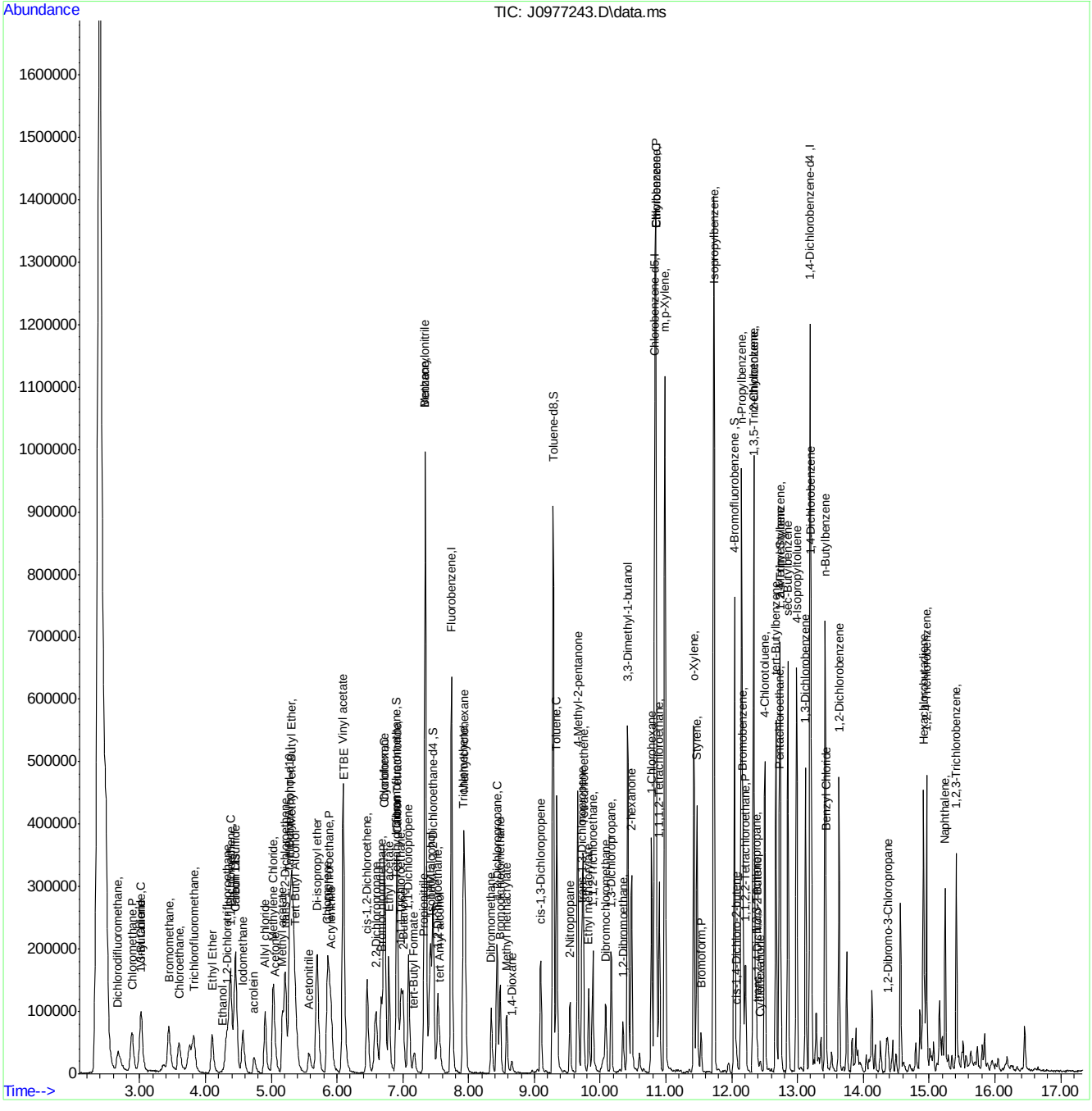
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.740	105	277080	23.08	ug/L		99
93)	Pentachloroethane	12.722	167	48646	25.96	ug/L		97
94)	sec-Butylbenzene	12.851	105	382072	27.51	ug/L		98
95)	4-Isopropyltoluene	12.987	119	290494	24.97	ug/L		99
96)	1,3-Dichlorobenzene	13.122	146	162292	23.92	ug/L		96
97)	1,4-Dichlorobenzene	13.204	146	161752	23.23	ug/L		97
98)	n-Butylbenzene	13.421	92	173803	25.78	ug/L		94
99)	Benzyl Chloride	13.433	126	14440	15.68	ug/L	#	54
100)	1,2-Dichlorobenzene	13.633	146	152729	23.41	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.367	75	9378	24.61	ug/L		87
102)	Hexachlorobutadiene	14.914	225	52743	23.87	ug/L		95
103)	1,2,4-Trichlorobenzene	14.961	180	99525	24.42	ug/L		97
104)	Naphthalene	15.243	128	160081	29.54	ug/L		97
105)	1,2,3-Trichlorobenzene	15.413	180	78800	24.69	ug/L		94
107)	Ethanol	4.255	45	9984m	444.69	ug/L		
108)	acrolein	4.737	56	34686	77.51	ug/L		83
109)	Tert Butyl Alcohol	5.360	59	209521	1066.78	ug/L		75
110)	tert Amyl alcohol	7.558	59	31520	196.68	ug/L		99
111)	Isobutyl alcohol	7.434	42	32141	424.46	ug/L	#	84
112)	1,4-Dioxane	8.656	88	11147	691.32	ug/L		75
113)	3,3-Dimethyl-1-butanol	10.419	57	213991	1110.73	ug/L		96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977243.D
Acq On : 16 Jun 2016 7:23 pm
Operator : darshnap
Sample : fa34748-1ms ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 08:48:00 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



SGS ACCUTEST FA34748

Manual Integration Approval Summary

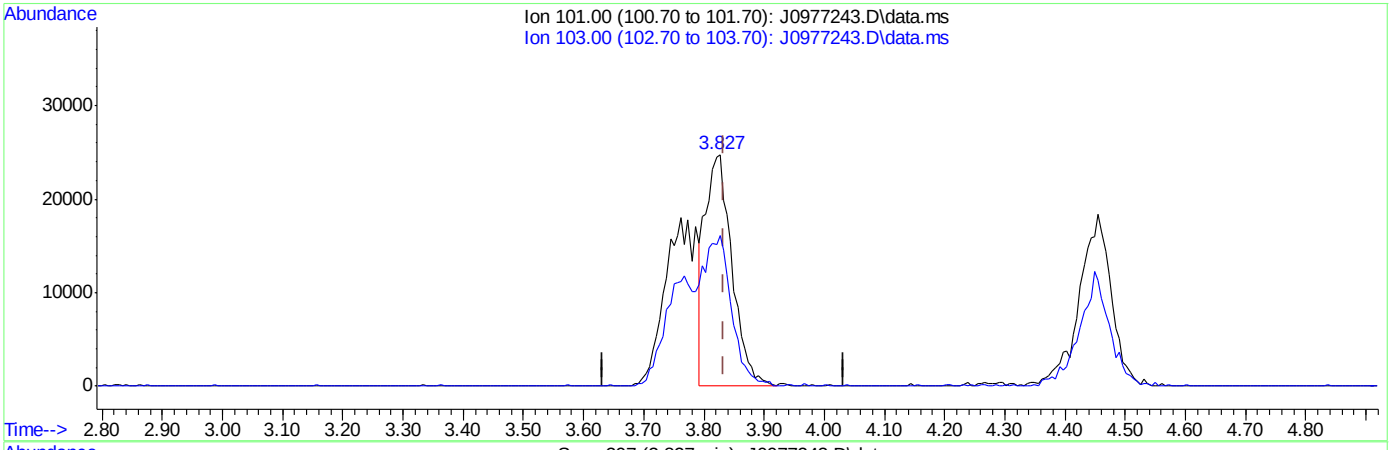
Sample Number:	FA34748-1MS	**Method:**	SW846 8260C
Lab FileID:	J0977243.D	**Analyst approved:**	06/17/16 12:39 Darshna Patel
Injection Time:	06/16/16 19:23	**Supervisor approved:**	06/17/16 13:00 Juan Garcia

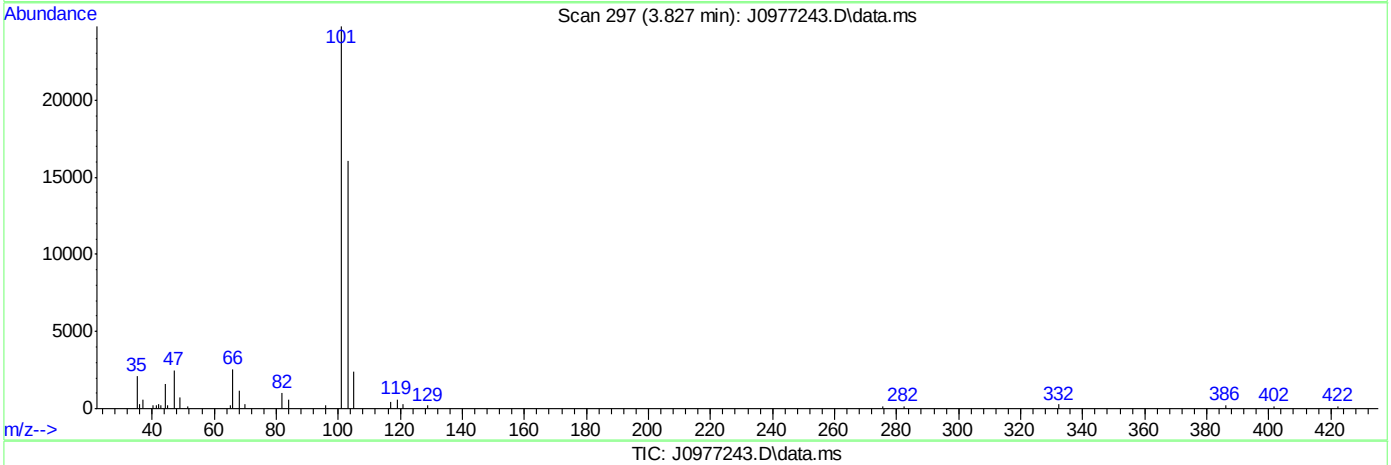
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Overlapping peak
Ethyl Alcohol	64-17-5		4.26	Split peak
Carbon Tetrachloride	56-23-5		6.92	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977243.D
Acq On : 16 Jun 2016 7:23 pm
Operator : darshnap
Sample : fa34748-1ms ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 07:29:13 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977243.D\data.ms

(8) Trichlorofluoromethane ( )

3.827min (-0.006) 16.70ug/L

response 77046

Ion	Exp%	Act%
101.00	100	100
103.00	62.10	64.93
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977243.D
Acq On : 16 Jun 2016 7:23 pm
Operator : darshnap
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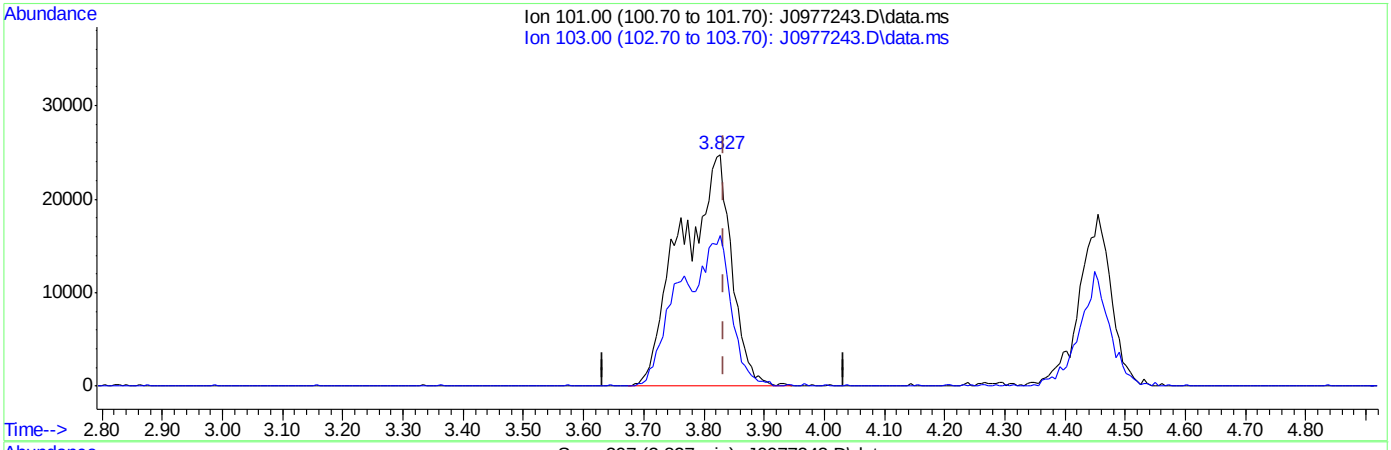
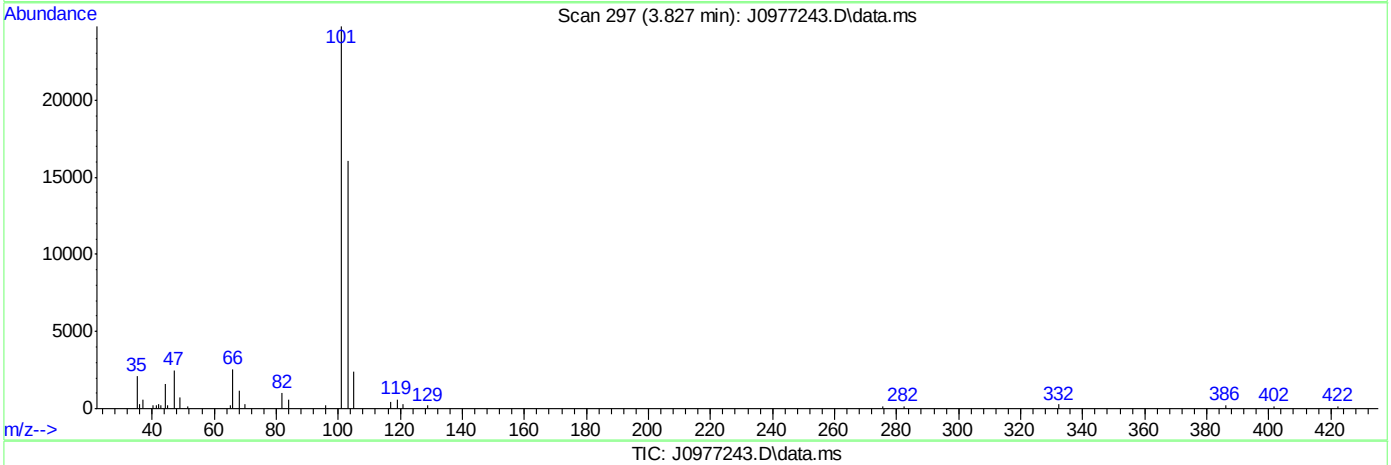




TIC: J0977243.D\data.ms

(8) Trichlorofluoromethane ( )

3.827min (-0.006) 31.19ug/L m

response 142880

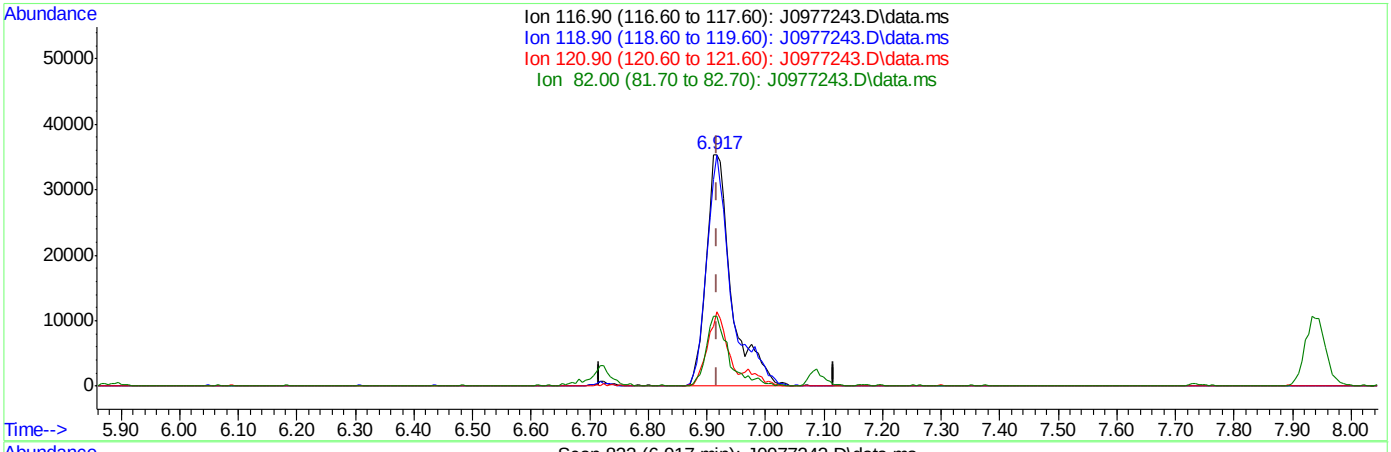
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	64.93
0.00	0.00	0.00
0.00	0.00	0.00

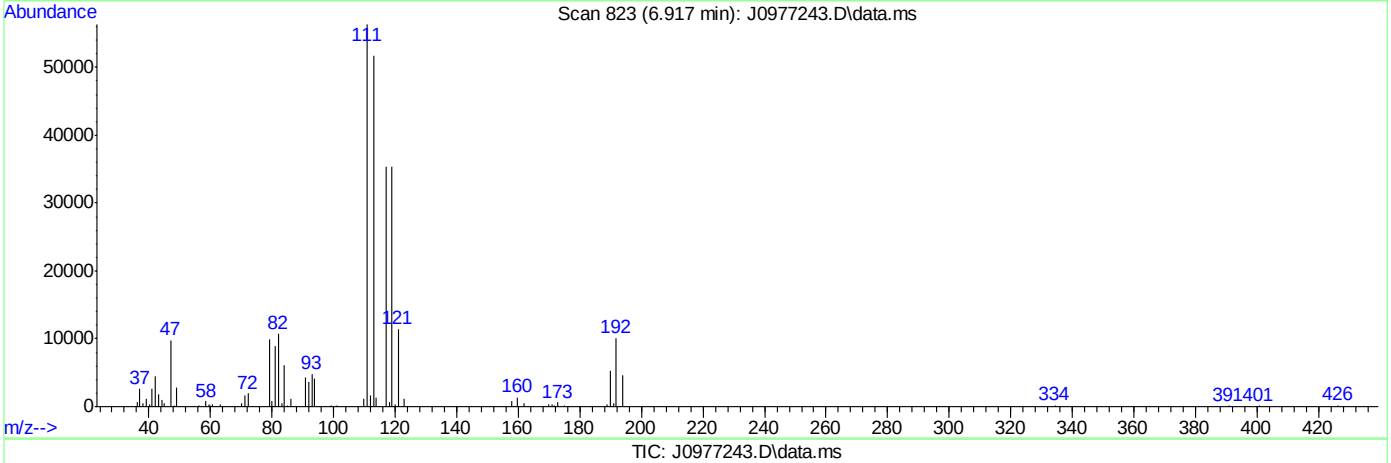
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977243.D
Acq On : 16 Jun 2016 7:23 pm
Operator : darshnap
Sample : fa34748-1ms ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 07:29:13 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977243.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 29.15ug/L

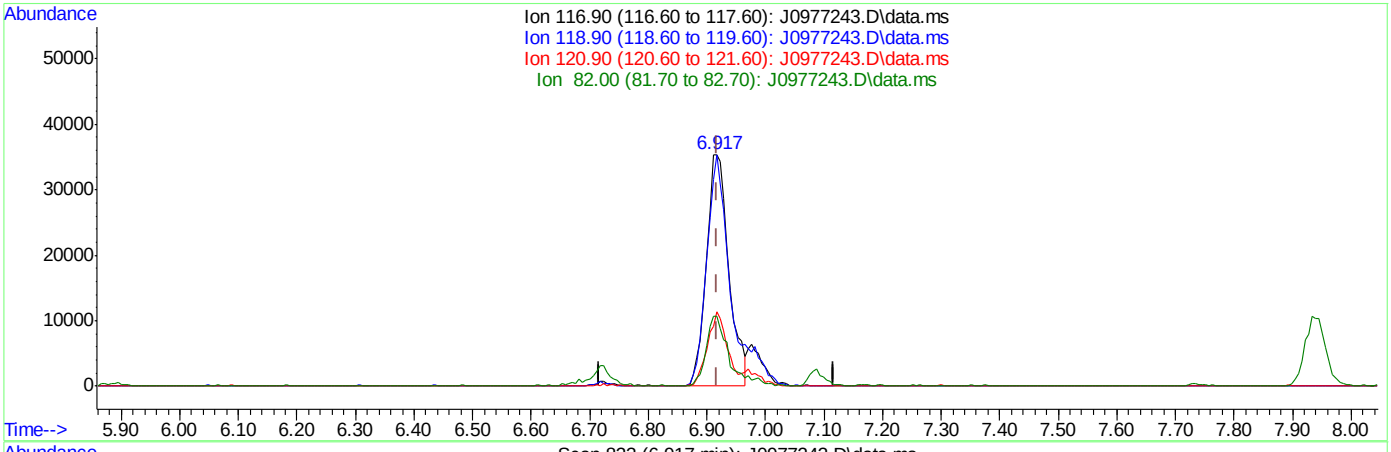
response 107568

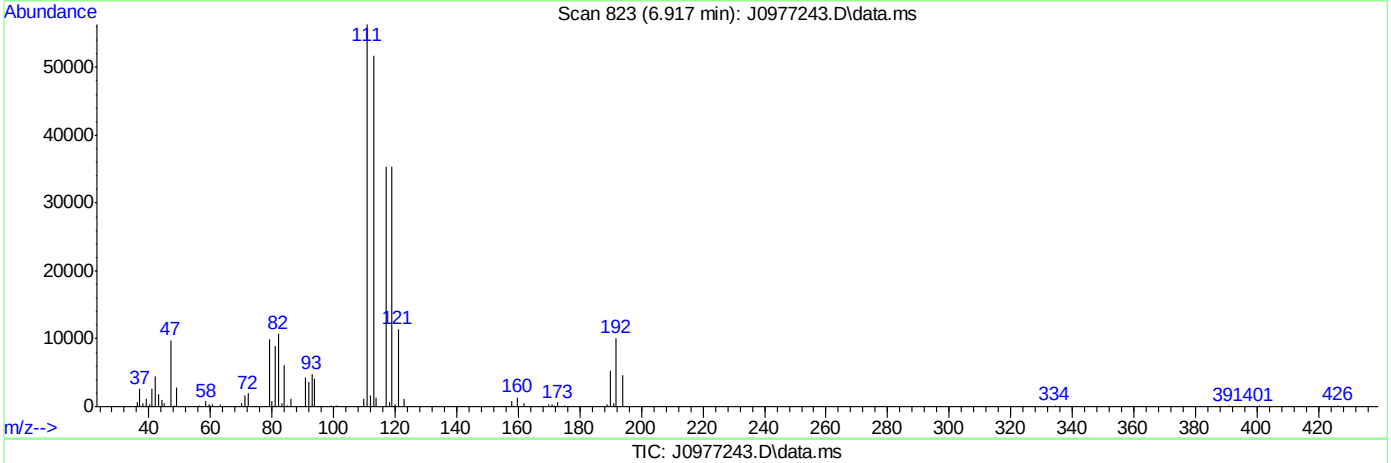
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	99.77
120.90	30.90	32.30
82.00	25.70	30.26

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977243.D
Acq On : 16 Jun 2016 7:23 pm
Operator : darshnap
Sample : fa34748-1ms ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 07:29:13 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977243.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 25.86ug/L m

response 95440

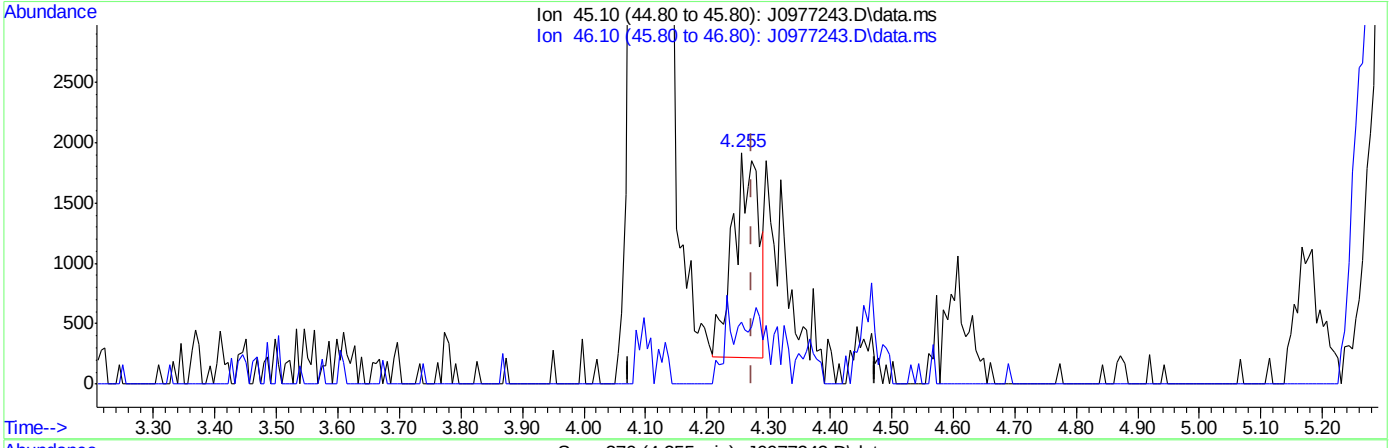
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	99.77
120.90	30.90	32.30
82.00	25.70	30.26

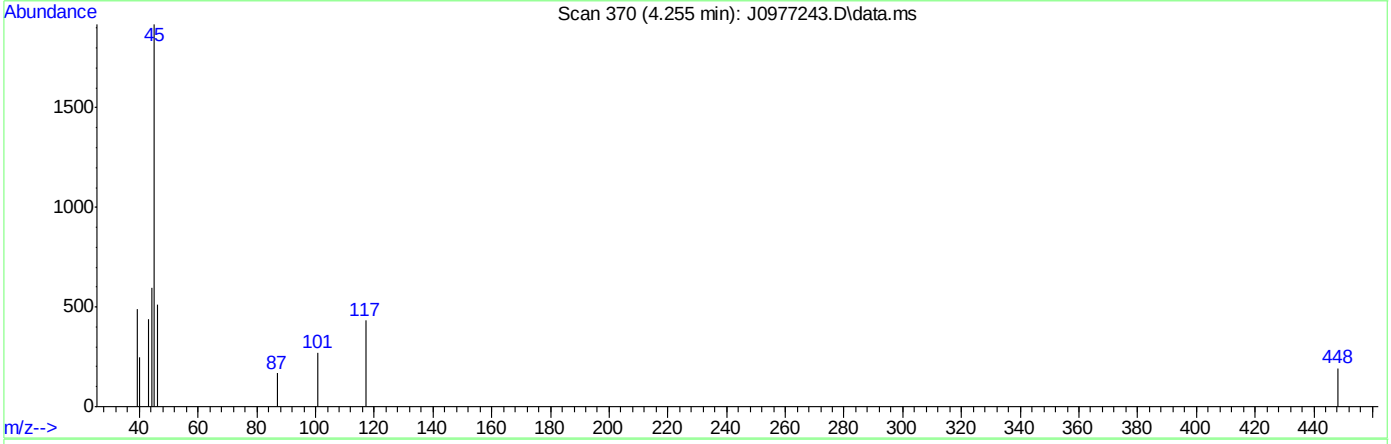
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977243.D
Acq On : 16 Jun 2016 7:23 pm
Operator : darshnap
Sample : fa34748-1ms ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 07:29:13 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977243.D\data.ms

(107) Ethanol

4.255min (-0.018) 216.25ug/L

response 4889

Ion	Exp%	Act%
45.10	100	100
46.10	20.50	30.65
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
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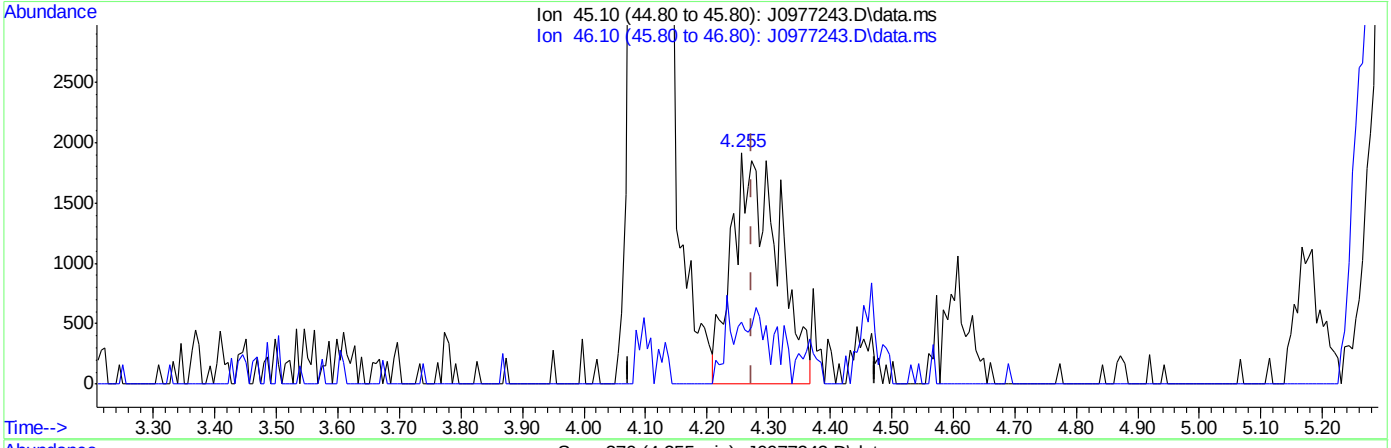

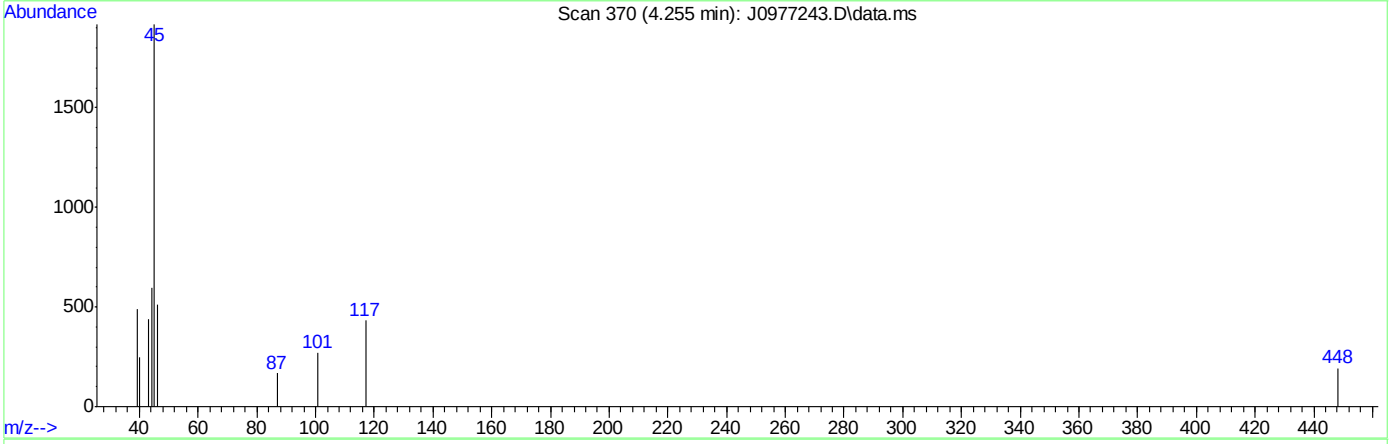

TIC: J0977243.D\data.ms

(107) Ethanol

4.255min (-0.018) 444.69ug/L m

response 9984

Ion	Exp%	Act%
45.10	100	100
46.10	20.50	26.73
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/17/16 13:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977244.D
Acq On : 16 Jun 2016 7:46 pm
Operator : darshnap
Sample : fa34748-1msd ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 08:48:39 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	565707	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	444262	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	243368	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	42344	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	142288	51.08	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.16%			
46) 1,2-Dichloroethane-d4	7.464	65	179814	50.58	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.16%			
57) Toluene-d8	9.285	98	579193	49.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.10%			
79) 4-Bromofluorobenzene	12.041	95	229148	50.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.687	85	86023	34.84	ug/L	98
3) Chloromethane	2.892	50	140840	32.09	ug/L	92
4) Vinyl Chloride	3.039	62	120529	29.89	ug/L	95
5) 1,3-Butadiene	3.027	54	41442	15.85	ug/L #	85
6) Bromomethane	3.462	94	79502	28.90	ug/L	97
7) Chloroethane	3.609	64	68785	30.71	ug/L	94
8) Trichlorofluoromethane	3.827	101	146156m	29.26	ug/L	
9) Ethyl Ether	4.103	59	62825	22.89	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.349	67	96209	26.81	ug/L	96
11) 1,1-Dichloroethene	4.391	61	132346	26.50	ug/L	98
12) Freon 113	4.461	101	70871	23.07	ug/L	96
13) Carbon Disulfide	4.467	76	221270	20.55	ug/L	96
14) Iodomethane	4.579	142	121075	23.27	ug/L	96
15) Allyl chloride	4.914	41	92708	19.76	ug/L	99
16) Methylene Chloride	5.037	49	117029	23.14	ug/L	97
17) Acetone	5.060	58	23712	119.37	ug/L	92
18) Methyl acetate	5.184	74	39012	107.68	ug/L #	75
19) trans-1,2-Dichloroethene	5.225	61	125451	27.00	ug/L	98
20) Hexane	5.284	56	95362	31.95	ug/L	94
21) Methyl Tert Butyl Ether	5.319	73	454200	52.17	ug/L	96
22) Acetonitrile	5.577	40	33942	228.41	ug/L #	54
23) Di-isopropyl ether	5.701	45	271218	22.42	ug/L	98
24) Chloroprene	5.854	53	110040	23.41	ug/L	96
25) 1,1-Dichloroethane	5.883	63	143497	25.25	ug/L	97
26) Acrylonitrile	5.918	53	108409	113.58	ug/L	96
27) ETBE	6.100	59	240520	21.50	ug/L	98
28) Vinyl acetate	6.095	43	616904	100.52	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	80010	23.17	ug/L	97
30) 2,2-Dichloropropane	6.600	77	88939	21.01	ug/L	95
31) Bromochloromethane	6.670	128	34342	23.68	ug/L	87
32) Cyclohexane	6.729	56	151882	25.77	ug/L	89
33) Chloroform	6.723	83	138580	23.80	ug/L	99
34) Ethyl acetate	6.794	43	259707	107.75	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977244.D
Acq On : 16 Jun 2016 7:46 pm
Operator : darshnap
Sample : fa34748-1msd ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 08:48:39 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	18428	27.51 ug/L	88
37) Carbon Tetrachloride	6.917	117	93086m	23.15 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	115874	23.39 ug/L	94
39) 2-Butanone	7.011	43	117651	115.29 ug/L	93
40) 1,1-Dichloropropene	7.093	75	96115	23.96 ug/L	96
41) tert-Butyl Formate	7.176	59	12344	5.39 ug/L #	81
42) Propionitrile	7.323	54	76250	244.90 ug/L	88
43) Methacrylonitrile	7.346	41	366245	234.28 ug/L	99
44) Benzene	7.346	78	293112	22.96 ug/L	97
45) TAME	7.422	73	189048	21.96 ug/L	94
47) 1,2-Dichloroethane	7.534	62	101225	23.41 ug/L	96
48) Trichloroethene	7.922	95	80186	24.40 ug/L	97
49) Methylcyclohexane	7.939	83	139931	25.23 ug/L	97
50) Dibromomethane	8.345	93	40116	22.50 ug/L	96
51) 1,2-Dichloropropane	8.439	63	74884	22.38 ug/L	95
52) Bromodichloromethane	8.480	83	83533	20.64 ug/L	98
53) Methyl methacrylate	8.580	41	51023	24.35 ug/L	95
55) cis-1,3-Dichloropropene	9.097	75	89780	18.45 ug/L	90
58) Toluene	9.338	91	312695	21.93 ug/L	98
59) 2-Nitropropane	9.543	41	67654	105.89 ug/L	94
60) 4-Methyl-2-pentanone	9.661	43	310063	121.04 ug/L	97
61) trans-1,3-Dichloropropene	9.726	75	84792	20.72 ug/L	96
62) Tetrachloroethene	9.743	166	77559	22.69 ug/L	91
63) Ethyl methacrylate	9.826	69	66225	19.92 ug/L	97
64) 1,1,2-Trichloroethane	9.890	83	55337	23.48 ug/L	95
65) Dibromochloromethane	10.090	129	54483	19.25 ug/L	93
66) 1,3-Dichloropropane	10.172	76	99961	21.57 ug/L	95
67) 1,2-Dibromoethane	10.348	107	54956	22.06 ug/L	91
68) 2-hexanone	10.478	43	209631	116.71 ug/L	98
69) 1-Chlorohexane	10.783	91	98718	23.72 ug/L	96
70) Ethylbenzene	10.848	91	374280	22.62 ug/L	99
71) Chlorobenzene	10.854	112	205176	22.79 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.901	131	67599	21.59 ug/L	95
73) m,p-Xylene	10.983	91	575261	45.25 ug/L	99
74) o-Xylene	11.424	91	281085	22.56 ug/L	97
75) Styrene	11.477	104	188808	20.32 ug/L	97
76) Bromoform	11.535	173	27466	16.84 ug/L	95
77) Isopropylbenzene	11.729	105	807380	57.65 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.076	53	4970	10.66 ug/L #	74
81) n-Propylbenzene	12.146	91	665410	37.06 ug/L	100
82) Bromobenzene	12.170	156	88803	23.26 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.205	83	74652	23.18 ug/L	97
84) 1,3,5-Trimethylbenzene	12.329	105	290462	21.88 ug/L	99
85) 2-Chlorotoluene	12.340	91	296279	23.44 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.387	53	6234	12.46 ug/L #	61
87) 1,2,3-Trichloropropane	12.370	110	19865	24.26 ug/L	91
88) Cyclohexanone	12.434	55	8676	86.57 ug/L	91
89) 4-Chlorotoluene	12.505	91	264412	23.16 ug/L	97
90) a-Methyl Styrene	12.740	118	2674	0.42 ug/L #	1
91) tert-Butylbenzene	12.669	91	172690	23.44 ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977244.D
Acq On : 16 Jun 2016 7:46 pm
Operator : darshnap
Sample : fa34748-1msd ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 08:48:39 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.740	105	295786	22.44	ug/L	99
93) Pentachloroethane	12.722	167	45963	22.33	ug/L	96
94) sec-Butylbenzene	12.857	105	416185	27.28	ug/L	99
95) 4-Isopropyltoluene	12.987	119	312397	24.45	ug/L	100
96) 1,3-Dichlorobenzene	13.122	146	175170	23.51	ug/L	98
97) 1,4-Dichlorobenzene	13.210	146	178737	23.37	ug/L	97
98) n-Butylbenzene	13.421	92	190198	25.69	ug/L	90
99) Benzyl Chloride	13.433	126	15727	15.56	ug/L #	33
100) 1,2-Dichlorobenzene	13.633	146	165944	23.16	ug/L	96
101) 1,2-Dibromo-3-Chloropr...	14.367	75	9426	22.59	ug/L #	82
102) Hexachlorobutadiene	14.914	225	56178	23.15	ug/L	95
103) 1,2,4-Trichlorobenzene	14.961	180	103979	23.25	ug/L	95
104) Naphthalene	15.243	128	180563	30.34	ug/L	96
105) 1,2,3-Trichlorobenzene	15.413	180	88185	25.15	ug/L	96
107) Ethanol	4.244	45	12253m	482.63	ug/L	
108) acrolein	4.749	56	42761	84.56	ug/L	98
109) Tert Butyl Alcohol	5.366	59	235902	1060.62	ug/L	77
110) tert Amyl alcohol	7.558	59	35163	193.81	ug/L	97
111) Isobutyl alcohol	7.446	42	38265	446.37	ug/L #	87
112) 1,4-Dioxane	8.662	88	9823	534.92	ug/L	86
113) 3,3-Dimethyl-1-butanol	10.419	57	246588	1130.63	ug/L	99

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

Quantitation Report (QT Reviewed)

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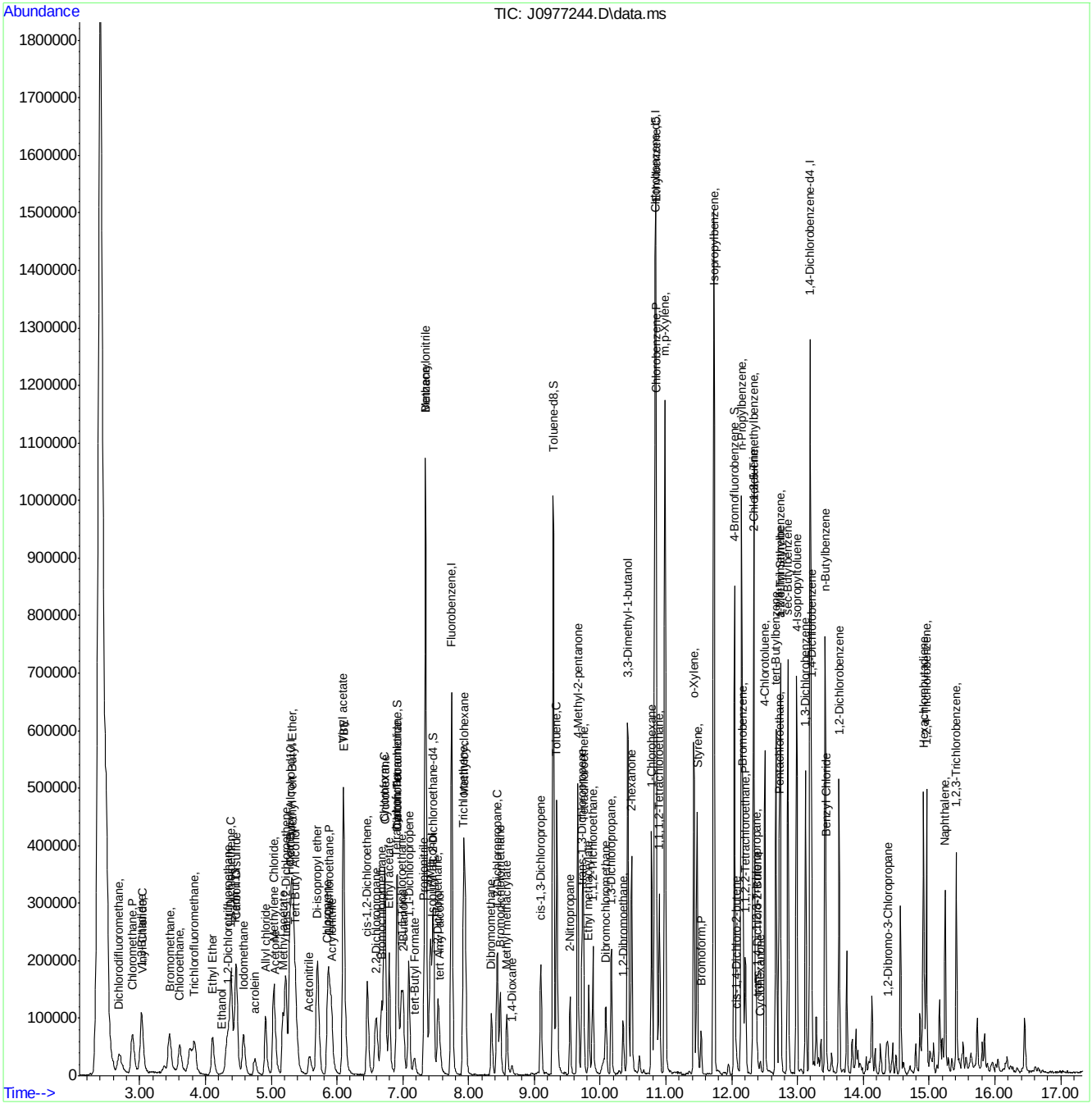

Manual Integration Approval Summary

Sample Number:	FA34748-1MSD	**Method:**	SW846 8260C
Lab FileID:	J0977244.D	**Analyst approved:**	06/17/16 12:39 Darshna Patel
Injection Time:	06/16/16 19:46	**Supervisor approved:**	06/17/16 13:00 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.24	Split peak
Carbon Tetrachloride	56-23-5		6.92	Poor instrument integration

Quantitation Report (Qedit)

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Data File : J0977244.D
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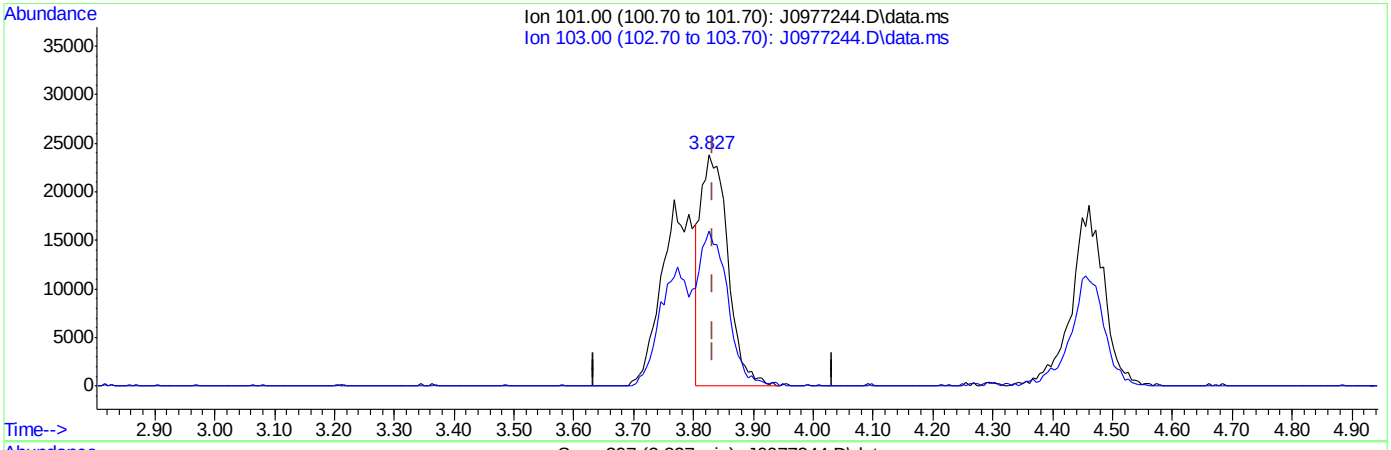

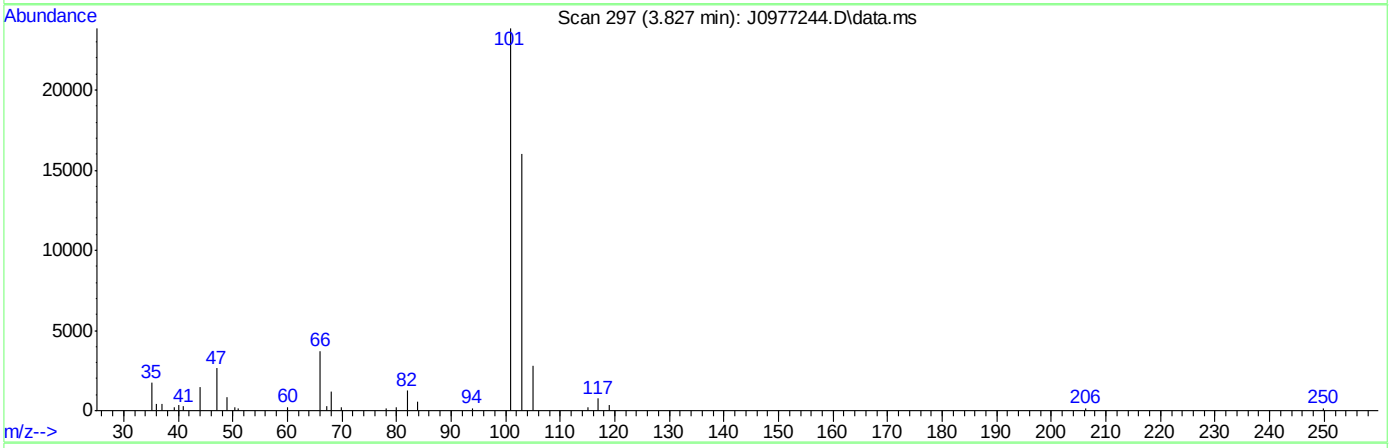

(8) Trichlorofluoromethane ( )

3.827min (-0.006) 15.11ug/L

response 76007

Ion	Exp%	Act%
101.00	100	100
103.00	62.10	67.05
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (Qedit)

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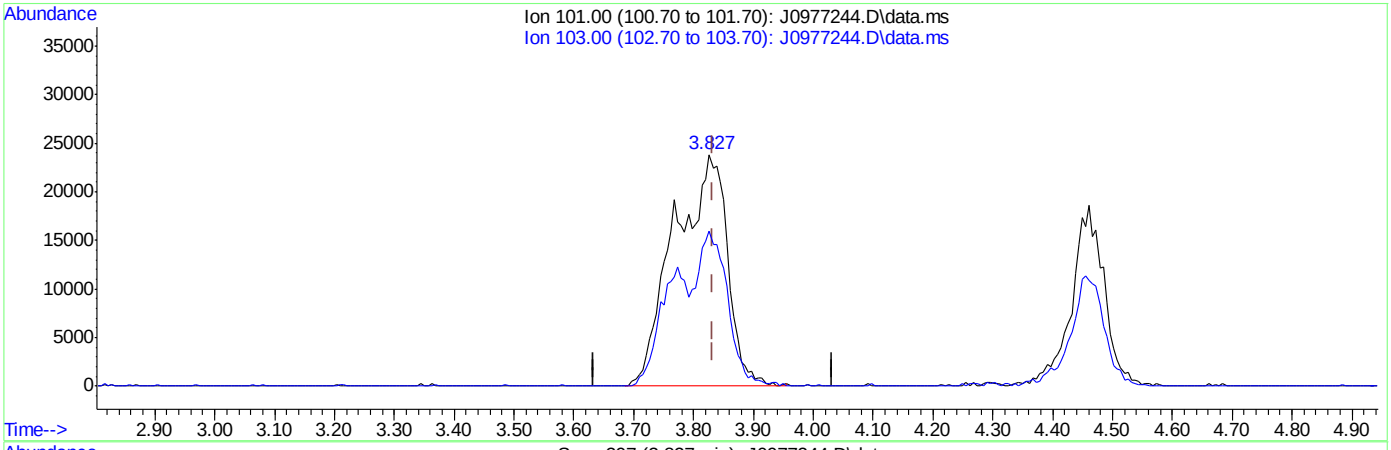

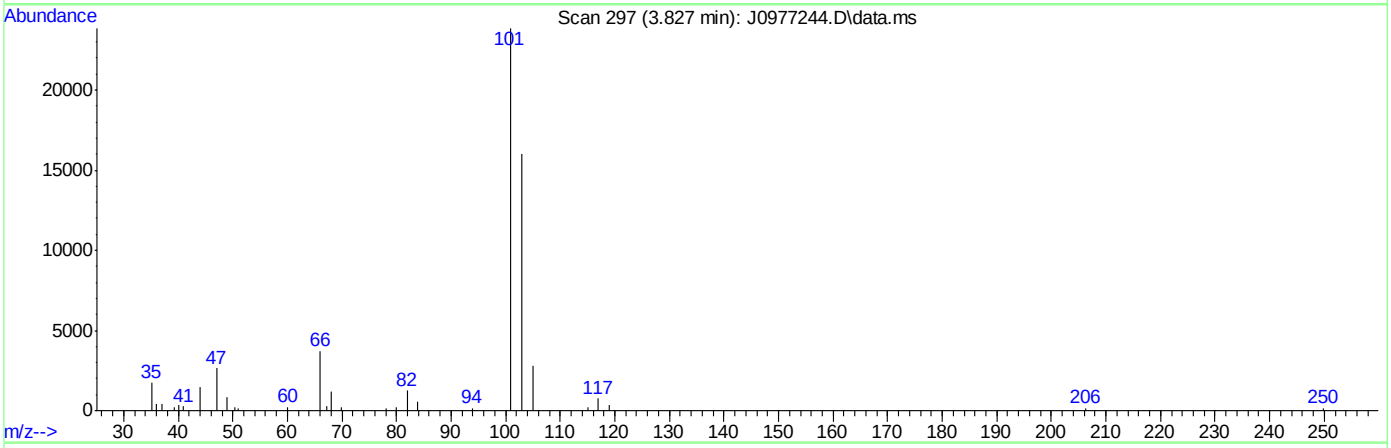

TIC: J0977244.D\data.ms

(8) Trichlorofluoromethane ( )

3.827min (-0.006) 29.26ug/L m

response 146156

Ion	Exp%	Act%
101.00	100	100
103.00	62.10	67.05
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977244.D
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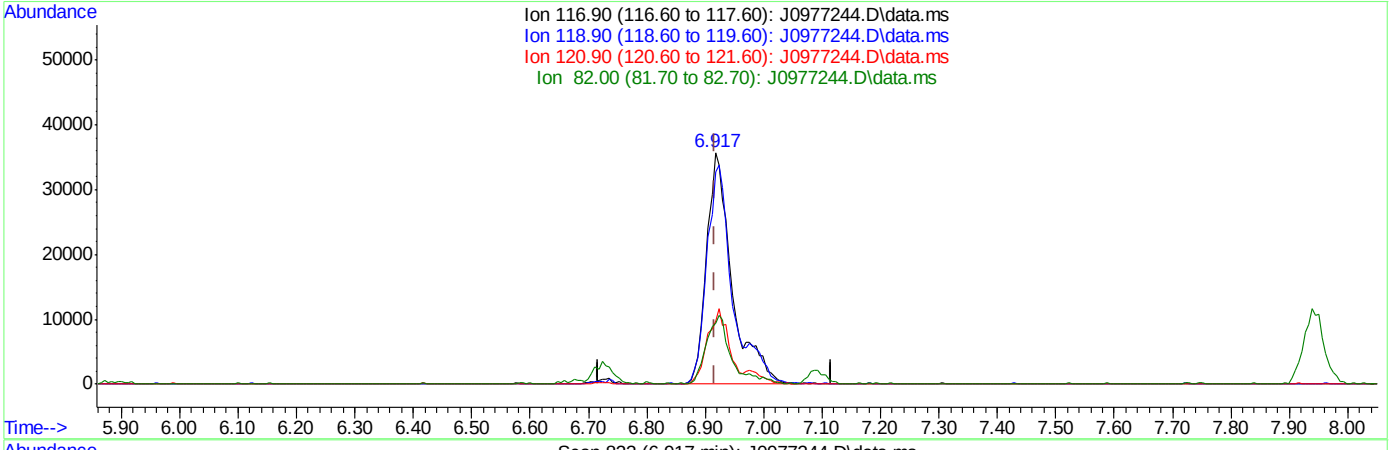

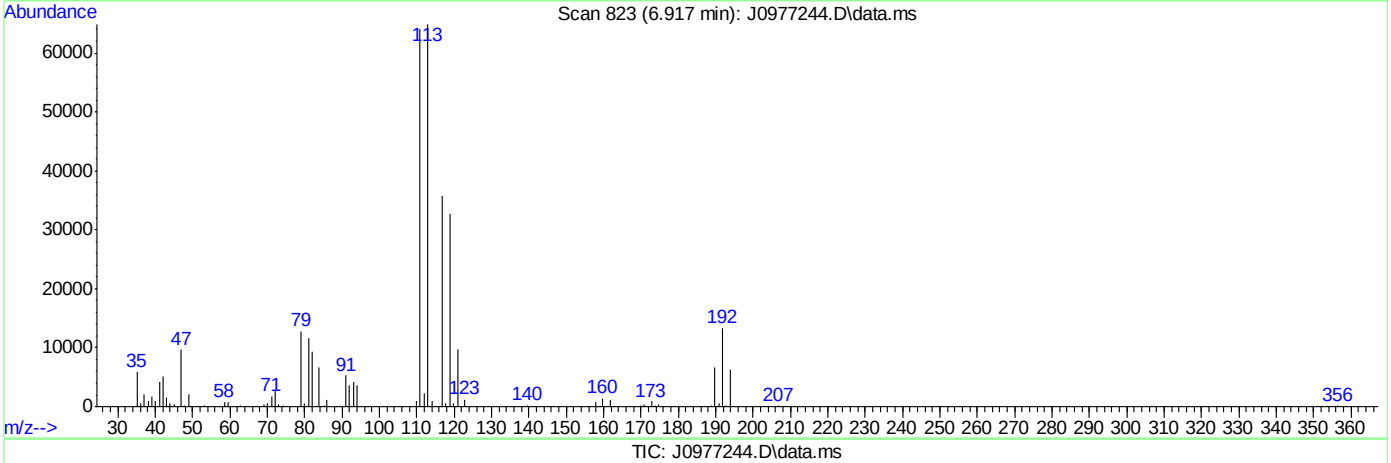

TIC: J0977244.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 26.67ug/L

response 107238

Ion	Exp%	Act%
116.90	100	100
118.90	96.50	91.43
120.90	30.90	27.28
82.00	25.70	26.09

SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977244.D
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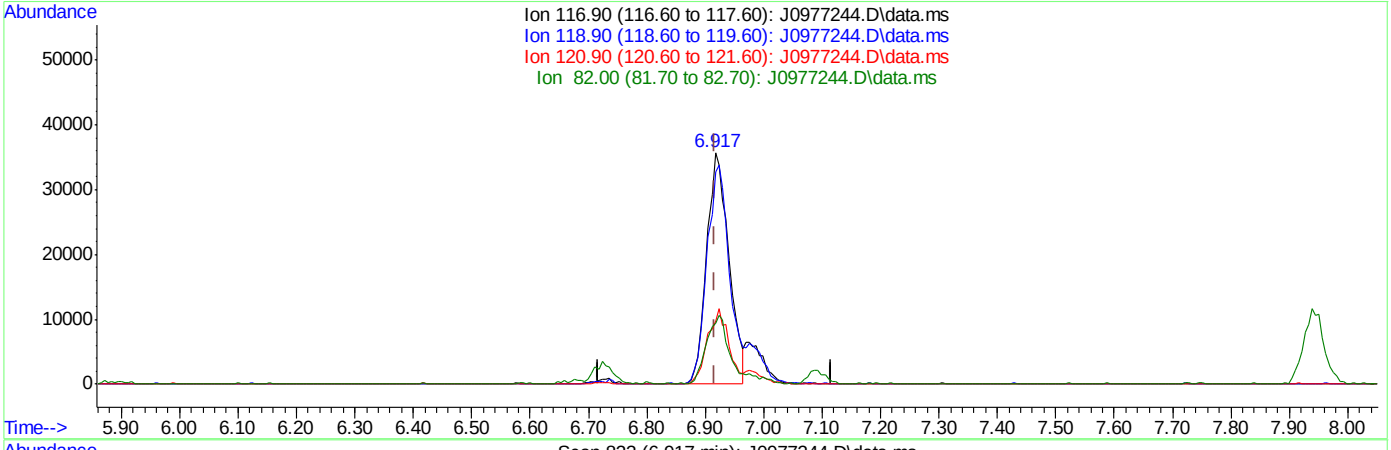
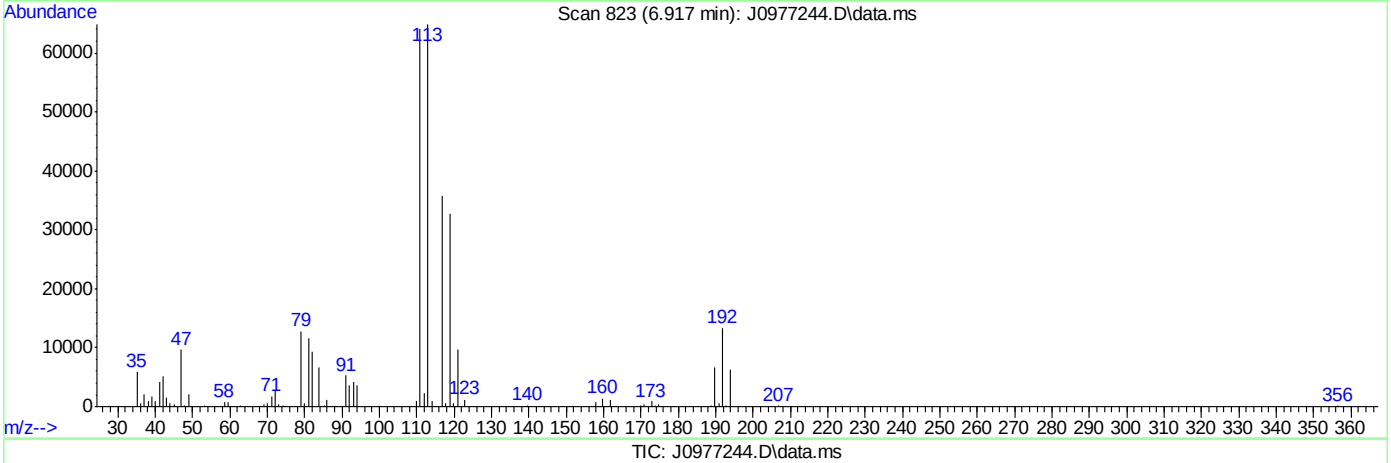
Response via : Initial Calibration





TIC: J0977244.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 23.15ug/L m

response 93086

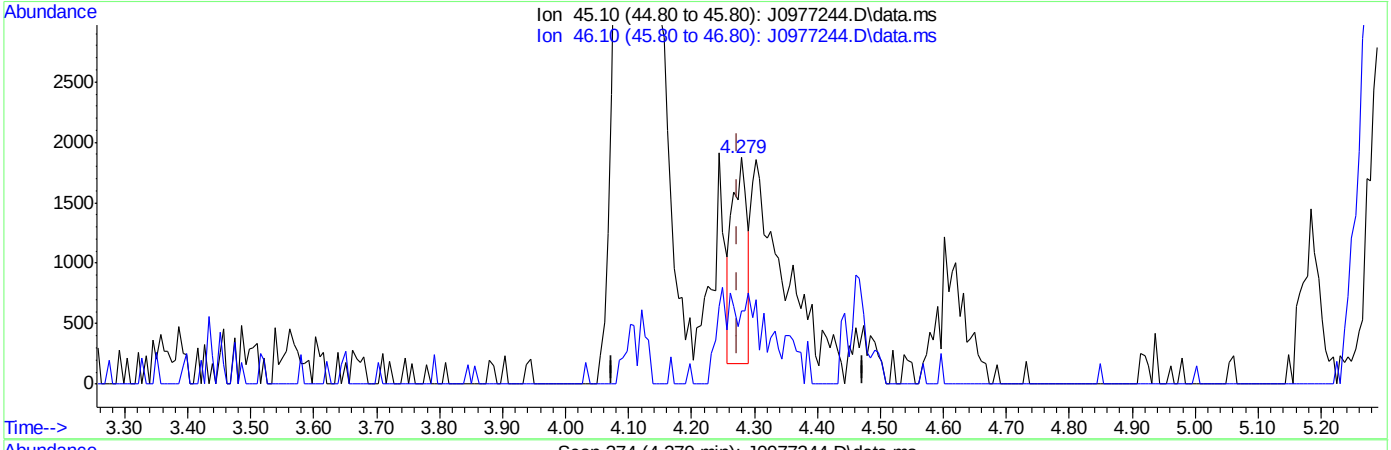
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	91.43
120.90	30.90	27.28
82.00	25.70	26.09

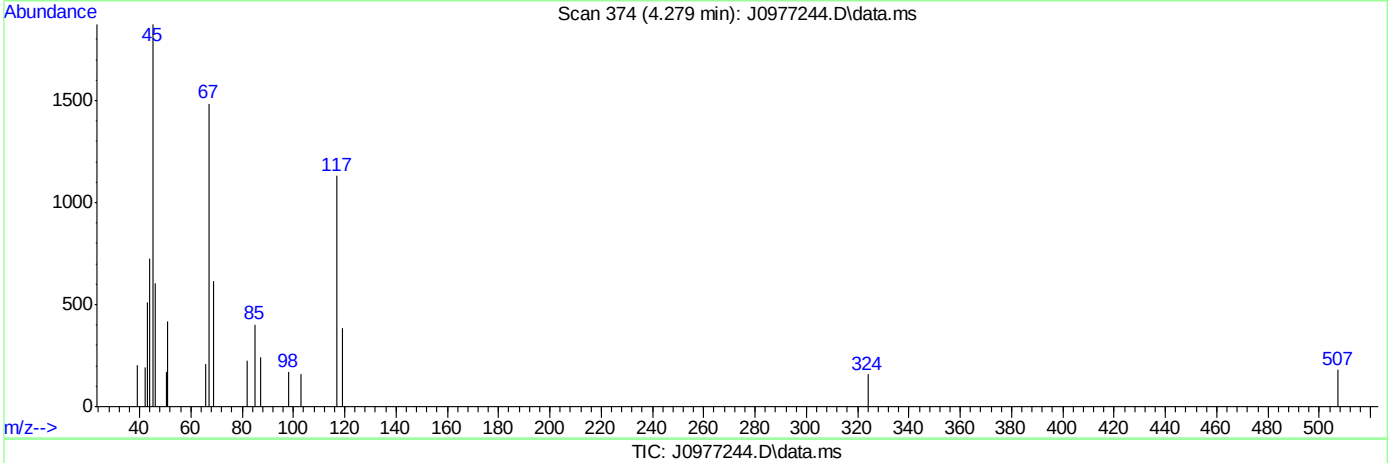
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977244.D
Acq On : 16 Jun 2016 7:46 pm
Operator : darshnap
Sample : fa34748-1msd ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 07:29:16 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977244.D\data.ms

(107) Ethanol

4.279min (+0.006) 112.91ug/L

response 2899

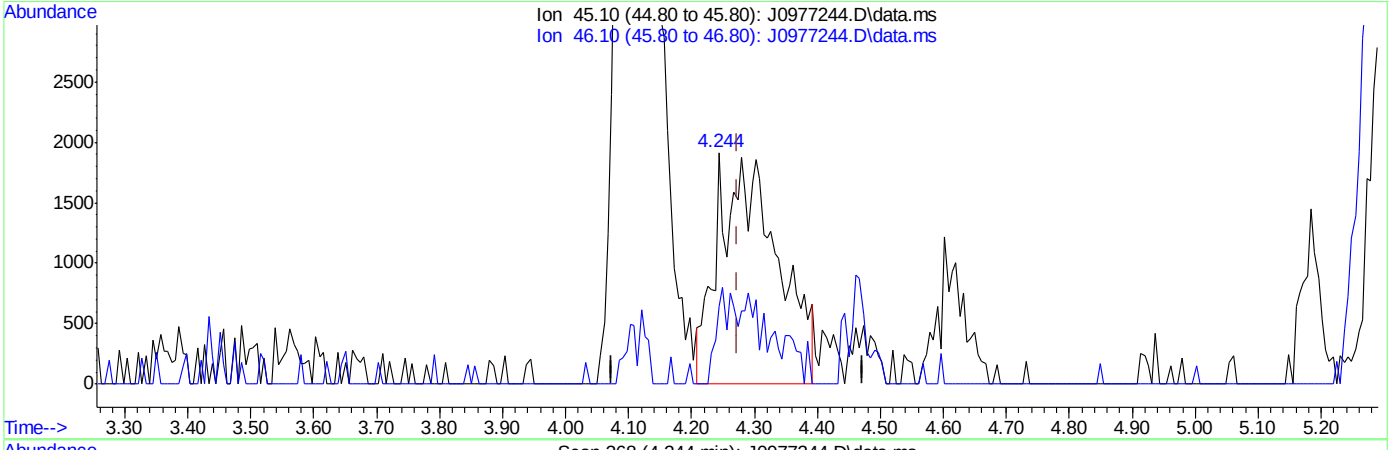
Ion	Exp%	Act%
45.10	100	100
46.10	20.50	18.98
0.00	0.00	0.00
0.00	0.00	0.00

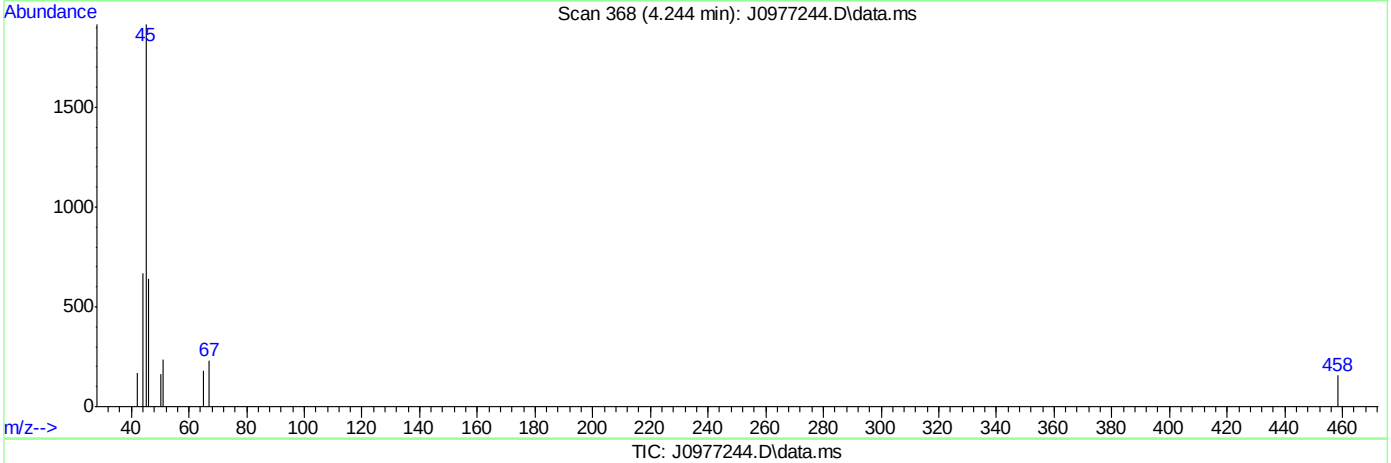
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977244.D
Acq On : 16 Jun 2016 7:46 pm
Operator : darshnap
Sample : fa34748-1msd ma Inst : MSVOA6
Misc : MS34164,VJ5336,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 17 07:29:16 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977244.D\data.ms

(107) Ethanol

4.244min (-0.029) 482.63ug/L m

response 12253

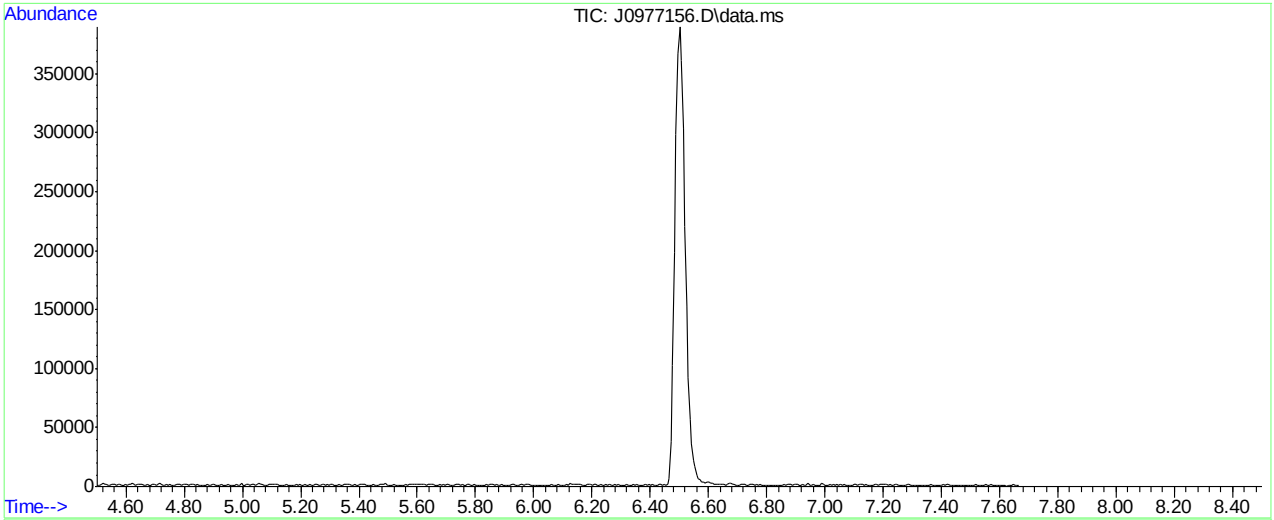
Ion	Exp%	Act%
45.10	100	100
46.10	20.50	33.56
0.00	0.00	0.00
0.00	0.00	0.00

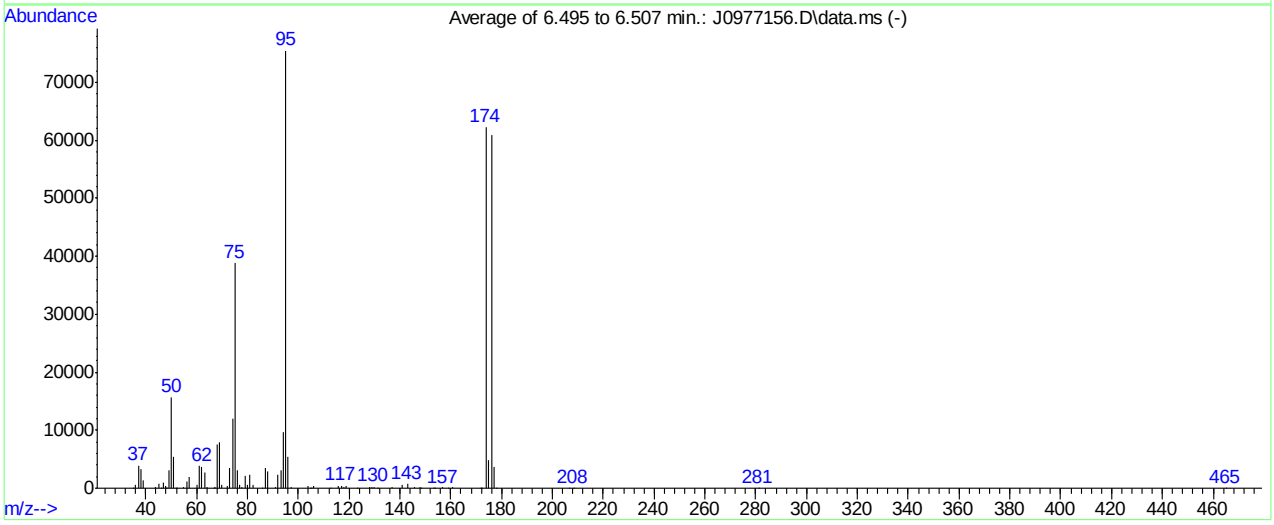
SGS ACCUTEST FA34748

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\061416\J0977156.D Vial: 1
Acq On : 14 Jun 2016 8:32 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34133,VJ5333,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ061416a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 581, 582, 583; Background Corrected with Scan 571

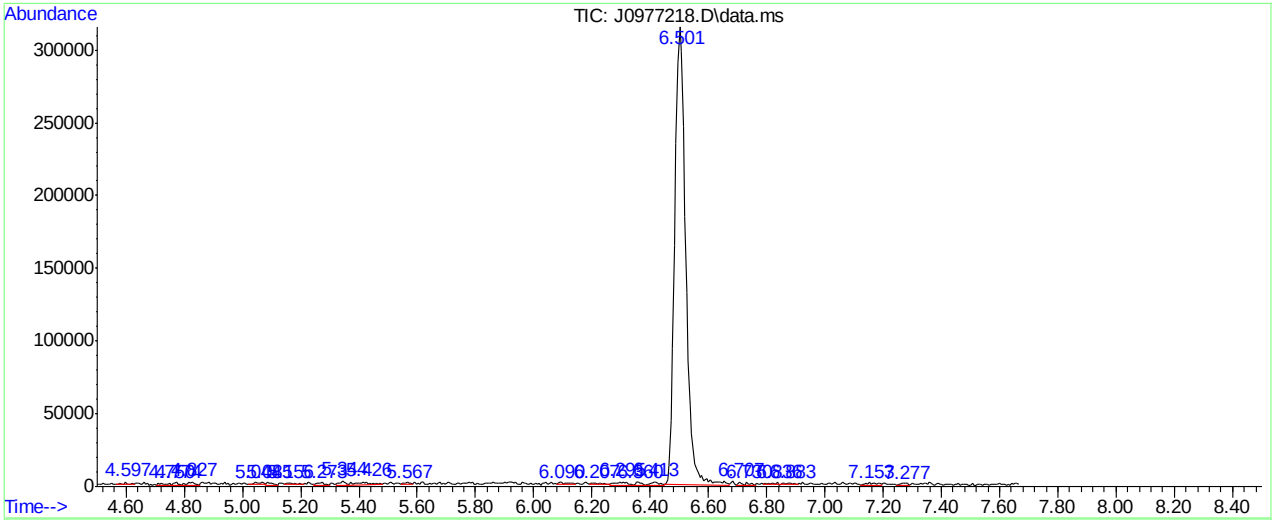
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	15724	PASS
75	95	30	60	51.4	38773	PASS
95	95	100	100	100.0	75483	PASS
96	95	5	9	7.2	5453	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	82.6	62312	PASS
175	174	5	9	7.9	4917	PASS
176	174	95	101	97.9	60981	PASS
177	176	5	9	6.1	3735	PASS

J0977156.D MSJ061416a.M Wed Jun 15 07:57:43 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\061616\J0977218.D Vial: 1
Acq On : 16 Jun 2016 9:04 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34151,VJ5335,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ061416a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 581, 582, 583; Background Corrected with Scan 572

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	12573	PASS
75	95	30	60	50.5	31248	PASS
95	95	100	100	100.0	61877	PASS
96	95	5	9	7.4	4550	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.4	50360	PASS
175	174	5	9	6.8	3427	PASS
176	174	95	101	99.3	50003	PASS
177	176	5	9	6.9	3460	PASS

J0977218.D MSJ061416a.M Fri Jun 17 12:24:51 2016

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/15/16 16:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:10:34 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	547984	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	409159	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	216131	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	33928	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	137884	50.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.68%			
46) 1,2-Dichloroethane-d4	7.464	65	174530	51.47	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.94%			
57) Toluene-d8	9.285	98	549283	50.24	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.48%			
79) 4-Bromofluorobenzene	12.041	95	203531	49.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.716	85	2464m	0.74	ug/L	
3) Chloromethane	2.881	50	8855	1.96	ug/L	78
4) Vinyl Chloride	3.016	62	6176	1.65	ug/L	79
5) 1,3-Butadiene	3.016	54	2325	1.07	ug/L	82
6) Bromomethane	3.433	94	6004m	2.23	ug/L	
7) Chloroethane	3.615	64	3991	1.62	ug/L	88
8) Trichlorofluoromethane	3.844	101	6407m	1.33	ug/L	
9) Ethyl Ether	4.115	59	3471	1.33	ug/L #	77
10) 1,2-Dichlorotrifluoroe...	4.338	67	2883	0.86	ug/L	83
11) 1,1-Dichloroethene	4.385	61	4731	1.00	ug/L	92
12) Freon 113	4.444	101	1519	0.54	ug/L #	65
13) Carbon Disulfide	4.461	76	11745	1.16	ug/L	92
14) Iodomethane	4.567	142	7291	1.50	ug/L	96
15) Allyl chloride	4.902	41	3605	0.70	ug/L #	75
16) Methylene Chloride	5.031	49	9283	1.81	ug/L	88
17) Acetone	5.066	58	1328m	6.62	ug/L	
18) Methyl acetate	5.196	74	1914	5.32	ug/L #	48
19) trans-1,2-Dichloroethene	5.219	61	5602	1.29	ug/L	81
20) Hexane	5.301	56	2538m	0.89	ug/L	
21) Methyl Tert Butyl Ether	5.319	73	9477	1.15	ug/L	90
22) Acetonitrile	5.601	40	2220	13.93	ug/L #	66
23) Di-isopropyl ether	5.695	45	15571	1.34	ug/L	90
24) Chloroprene	5.854	53	2929	0.55	ug/L #	73
25) 1,1-Dichloroethane	5.889	63	7923	1.43	ug/L	99
26) Acrylonitrile	5.924	53	4848	5.07	ug/L	77
27) ETBE	6.095	59	12778	1.15	ug/L	83
28) Vinyl acetate	6.106	43	28477	4.73	ug/L	88
29) cis-1,2-Dichloroethene	6.453	96	4086	1.24	ug/L #	78
30) 2,2-Dichloropropane	6.588	77	4427m	1.13	ug/L	
31) Bromochloromethane	6.665	128	2447	1.69	ug/L #	54
32) Cyclohexane	6.717	56	3959	0.63	ug/L #	74
33) Chloroform	6.723	83	8804	1.55	ug/L	86
34) Ethyl acetate	6.806	43	11463	5.10	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:10:34 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	893	1.37 ug/L #	58
37) Carbon Tetrachloride	6.917	117	3306	0.85 ug/L	84
38) 1,1,1-Trichloroethane	6.982	97	4764	1.01 ug/L	97
39) 2-Butanone	7.023	43	5715	5.58 ug/L	76
40) 1,1-Dichloropropene	7.093	75	3784	0.90 ug/L	89
41) tert-Butyl Formate	7.164	59	17553	8.57 ug/L #	74
42) Propionitrile	7.328	54	2829	8.69 ug/L #	1
43) Methacrylonitrile	7.352	41	13439	8.99 ug/L	92
44) Benzene	7.340	78	17458	1.46 ug/L	77
45) TAME	7.417	73	9456	1.05 ug/L	96
47) 1,2-Dichloroethane	7.528	62	6619	1.62 ug/L	89
48) Trichloroethene	7.922	95	4164	1.40 ug/L	88
49) Methylcyclohexane	7.940	83	3425	0.60 ug/L	90
50) Dibromomethane	8.345	93	2128	1.31 ug/L	83
51) 1,2-Dichloropropane	8.439	63	5145	1.57 ug/L	89
52) Bromodichloromethane	8.480	83	5549	1.36 ug/L #	74
53) Methyl methacrylate	8.592	41	1115	0.53 ug/L #	56
54) 2-Chloroethyl vinyl ether	8.997	63	7353	4.28 ug/L	97
55) cis-1,3-Dichloropropene	9.097	75	5895	1.27 ug/L	87
58) Toluene	9.344	91	16668	1.31 ug/L	87
59) 2-Nitropropane	9.538	41	2990	4.75 ug/L	89
60) 4-Methyl-2-pentanone	9.667	43	10943	4.36 ug/L	89
61) trans-1,3-Dichloropropene	9.726	75	4073	0.99 ug/L	87
62) Tetrachloroethene	9.749	166	3317	1.17 ug/L #	73
63) Ethyl methacrylate	9.831	69	1461	0.48 ug/L #	37
64) 1,1,2-Trichloroethane	9.896	83	2699	1.28 ug/L	93
65) Dibromochloromethane	10.084	129	2930	1.06 ug/L	89
66) 1,3-Dichloropropane	10.172	76	5295	1.16 ug/L	89
67) 1,2-Dibromoethane	10.354	107	2428	0.97 ug/L	97
68) 2-hexanone	10.478	43	8314	4.88 ug/L	93
69) 1-Chlorohexane	10.783	91	2759	0.67 ug/L #	77
70) Ethylbenzene	10.848	91	18844	1.25 ug/L	95
71) Chlorobenzene	10.854	112	12621	1.59 ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.901	131	3735	1.25 ug/L	81
73) m,p-Xylene	10.983	91	26324	2.22 ug/L	87
74) o-Xylene	11.424	91	12985	1.06 ug/L	96
75) Styrene	11.477	104	9758	1.06 ug/L	79
76) Bromoform	11.541	173	1780	1.12 ug/L	79
77) Isopropylbenzene	11.729	105	12696	0.96 ug/L	93
80) cis-1,4-Dichloro-2-butene	12.088	53	315	0.41 ug/L #	75
81) n-Propylbenzene	12.146	91	17504	1.06 ug/L	99
82) Bromobenzene	12.170	156	4892	1.48 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.205	83	3338	1.07 ug/L	92
84) 1,3,5-Trimethylbenzene	12.334	105	13038	1.06 ug/L	81
85) 2-Chlorotoluene	12.340	91	16018	1.37 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.399	53	545	0.73 ug/L #	2
87) 1,2,3-Trichloropropane	12.370	110	723	0.98 ug/L #	55
88) Cyclohexanone	12.434	55	301	2.86 ug/L #	54
89) 4-Chlorotoluene	12.511	91	13000	1.25 ug/L	93
90) a-Methyl Styrene	12.599	118	3427	0.56 ug/L #	33

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:10:34 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.675	91	7137	1.02	ug/L	92
92) 1,2,4-Trimethylbenzene	12.746	105	13454	1.12	ug/L	98
93) Pentachloroethane	12.722	167	1516	0.73	ug/L #	81
94) sec-Butylbenzene	12.852	105	12766	0.89	ug/L	91
95) 4-Isopropyltoluene	12.987	119	10920	0.93	ug/L	98
96) 1,3-Dichlorobenzene	13.122	146	9360	1.44	ug/L	90
97) 1,4-Dichlorobenzene	13.204	146	10793m	1.61	ug/L	
98) n-Butylbenzene	13.421	92	6502	0.93	ug/L	96
99) Benzyl Chloride	13.445	126	571	0.62	ug/L #	1
100) 1,2-Dichlorobenzene	13.633	146	8131	1.23	ug/L	90
101) 1,2-Dibromo-3-Chloropr...	14.362	75	526	1.16	ug/L #	23
102) Hexachlorobutadiene	14.914	225	2560	1.25	ug/L	83
103) 1,2,4-Trichlorobenzene	14.967	180	5554	1.39	ug/L	86
104) Naphthalene	15.249	128	5666	0.88	ug/L	89
105) 1,2,3-Trichlorobenzene	15.419	180	4428	1.21	ug/L	91
108) acrolein	4.749	56	2512	7.26	ug/L	90
109) Tert Butyl Alcohol	5.360	59	2561	13.63	ug/L	85
110) tert Amyl alcohol	7.564	59	1623	11.54	ug/L	81
111) Isobutyl alcohol	7.446	42	1110m	17.35	ug/L	
113) 3,3-Dimethyl-1-butanol	10.419	57	7163	46.69	ug/L	92

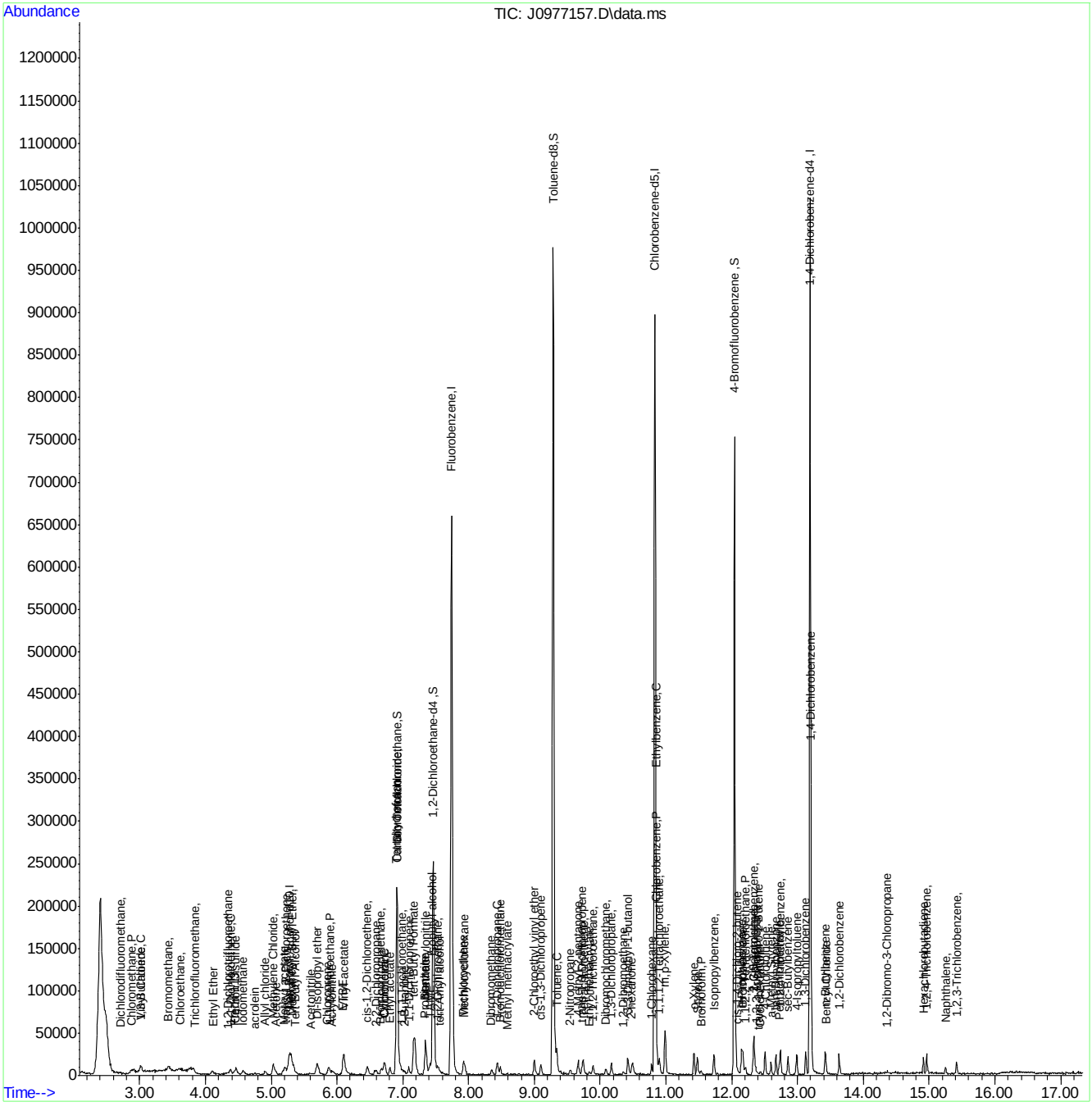
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:10:34 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration



SGS ACCUTEST FA34748

Manual Integration Approval Summary

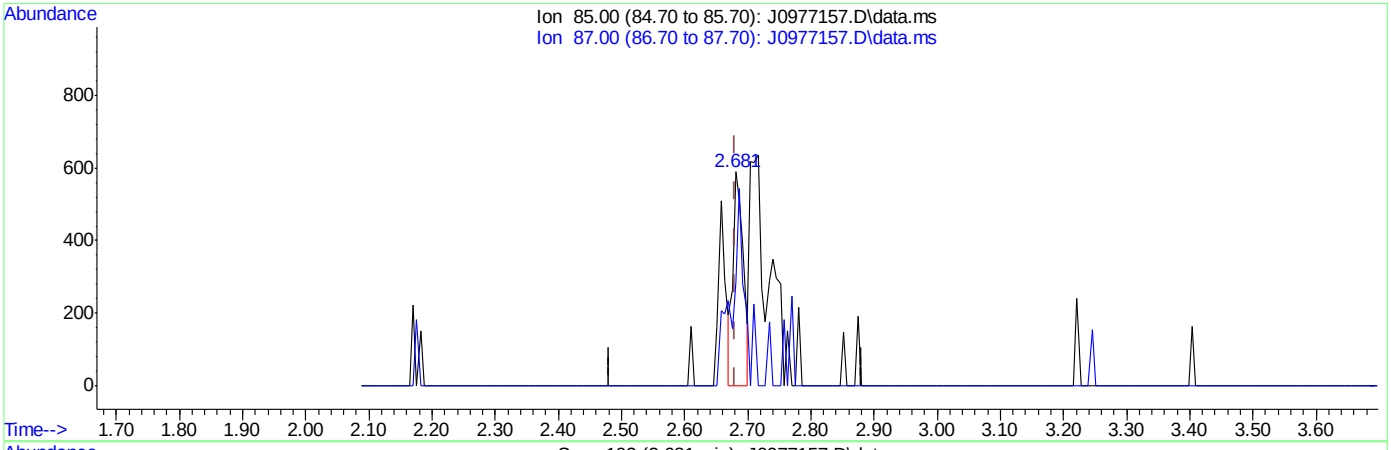
Sample Number:	VJ5333-IC5333	**Method:**	SW846 8260B
Lab FileID:	J0977157.D	**Analyst approved:**	06/15/16 07:59 Darshna Patel
Injection Time:	06/14/16 09:40	**Supervisor approved:**	06/15/16 16:05 Juan Garcia

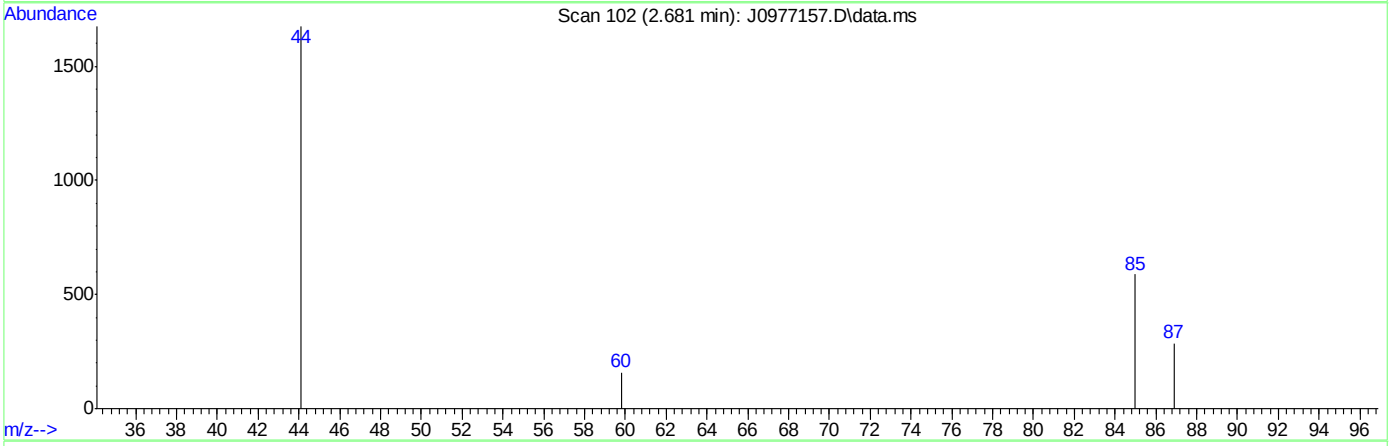
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		2.72	Poor instrument integration
Methyl Bromide	74-83-9		3.43	Poor instrument integration
Trichlorofluoromethane	75-69-4		3.84	Split peak
Acetone	67-64-1		5.07	Poor instrument integration
Hexane	110-54-3		5.30	Poor instrument integration
2,2-Dichloropropane	594-20-7		6.59	Poor instrument integration
Isobutyl Alcohol	78-83-1		7.45	Poor instrument integration
1,4-Dichlorobenzene	106-46-7		13.20	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977157.D\data.ms

(2) Dichlorodifluoromethane ( )

2.681min (-0.000) 0.20ug/L

response 679

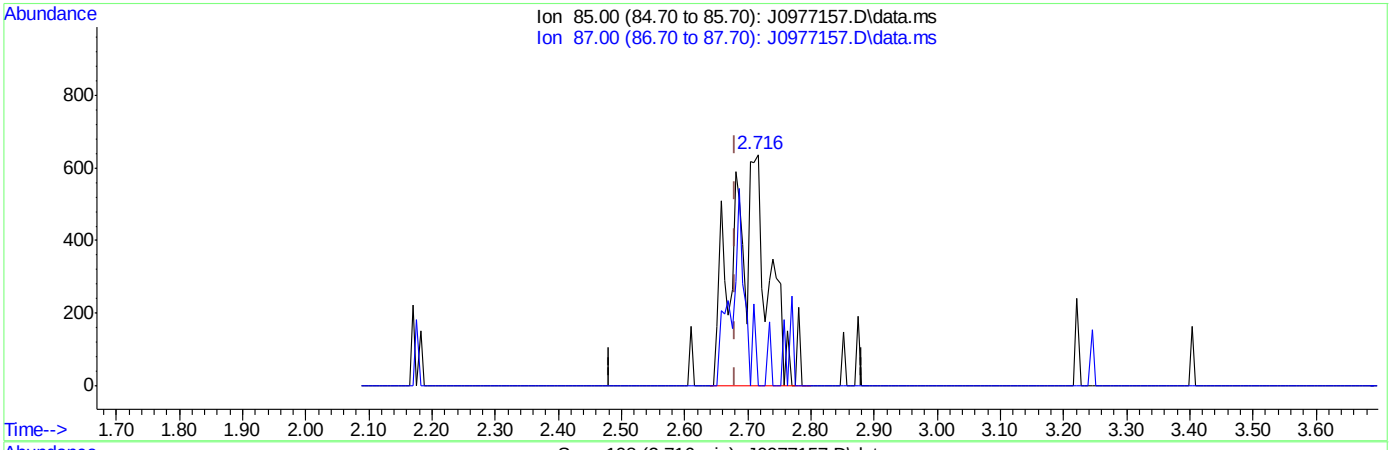
Ion	Exp%	Act%
85.00	100	100
87.00	28.90	19.38
0.00	0.00	0.00
0.00	0.00	0.00

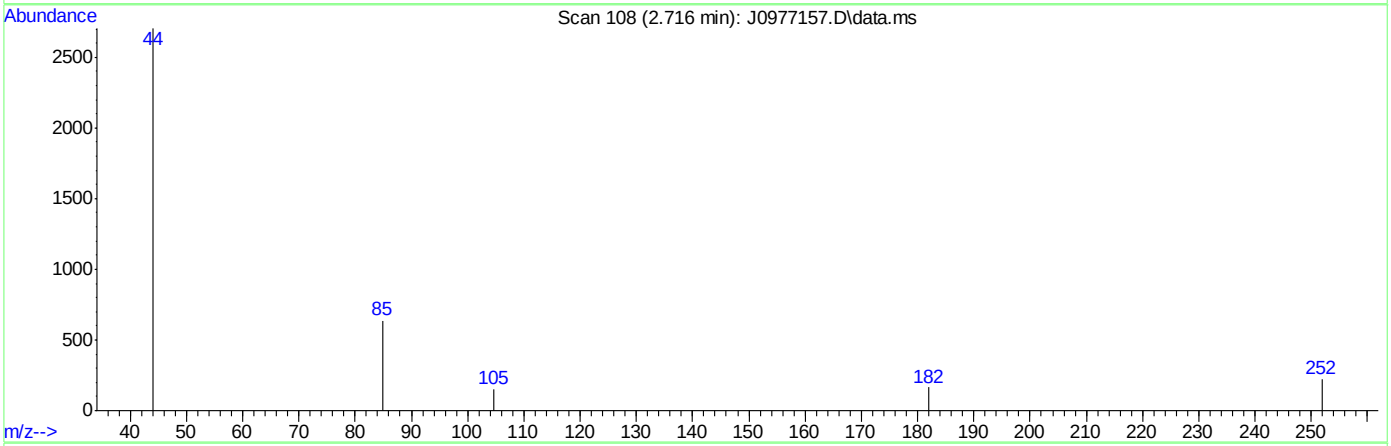
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977157.D\data.ms

(2) Dichlorodifluoromethane ( )

2.716min (+0.035) 0.74ug/L m

response 2464

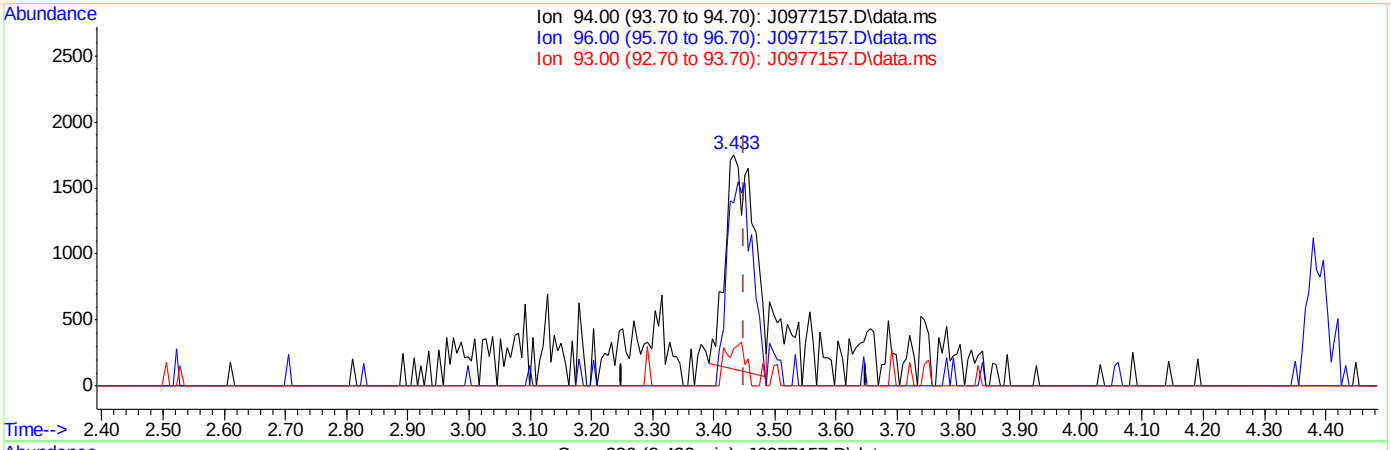
Ion	Exp%	Act%
85.00	100	100
87.00	28.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

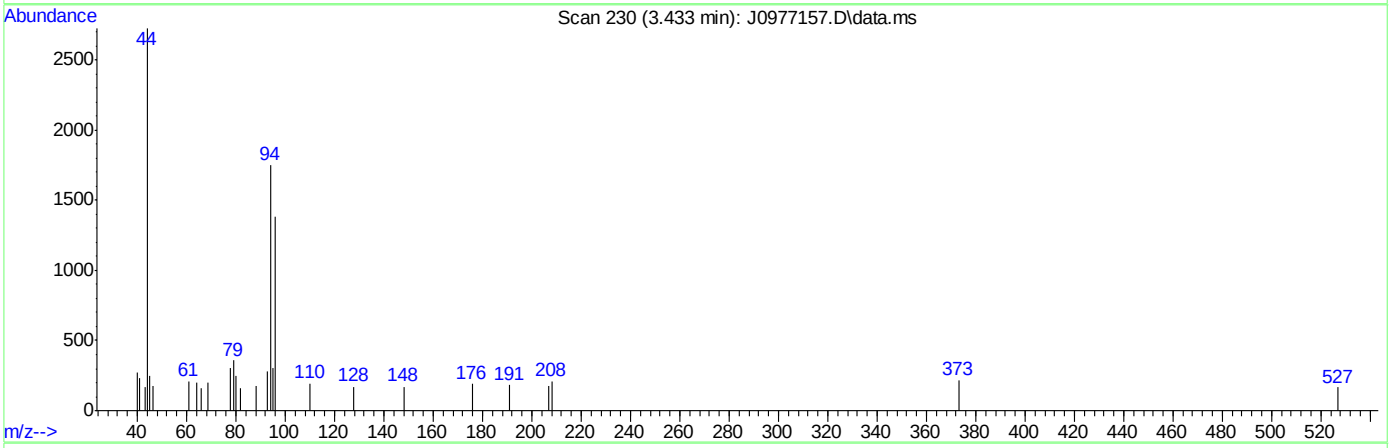
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977157.D\data.ms

(6) Bromomethane ( )

3.433min (-0.017) 1.98ug/L

response 5325

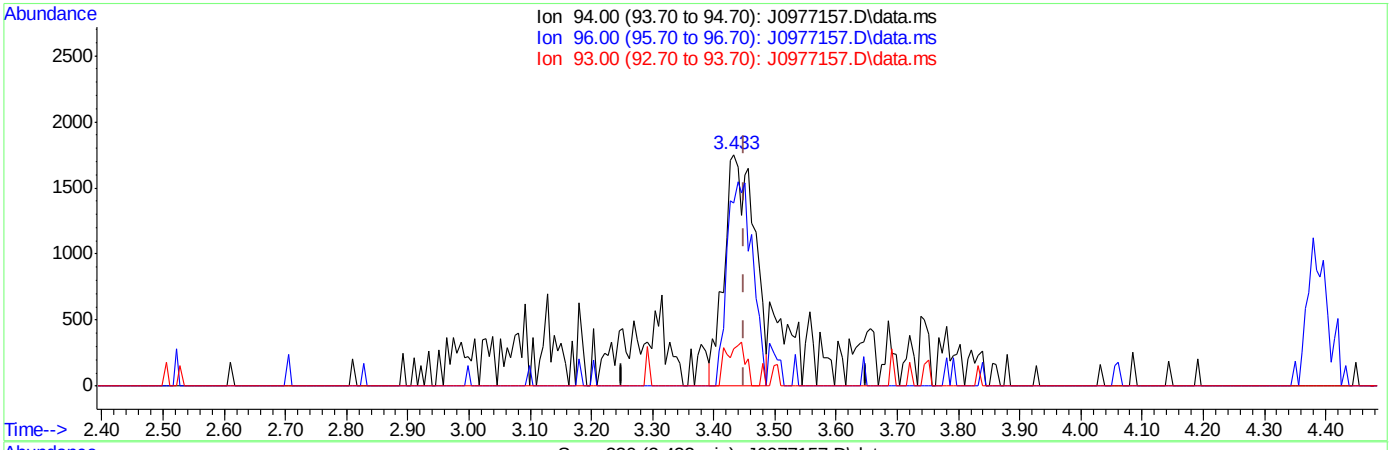
Ion	Exp%	Act%
94.00	100	100
96.00	91.00	87.84
93.00	21.30	17.80
0.00	0.00	0.00

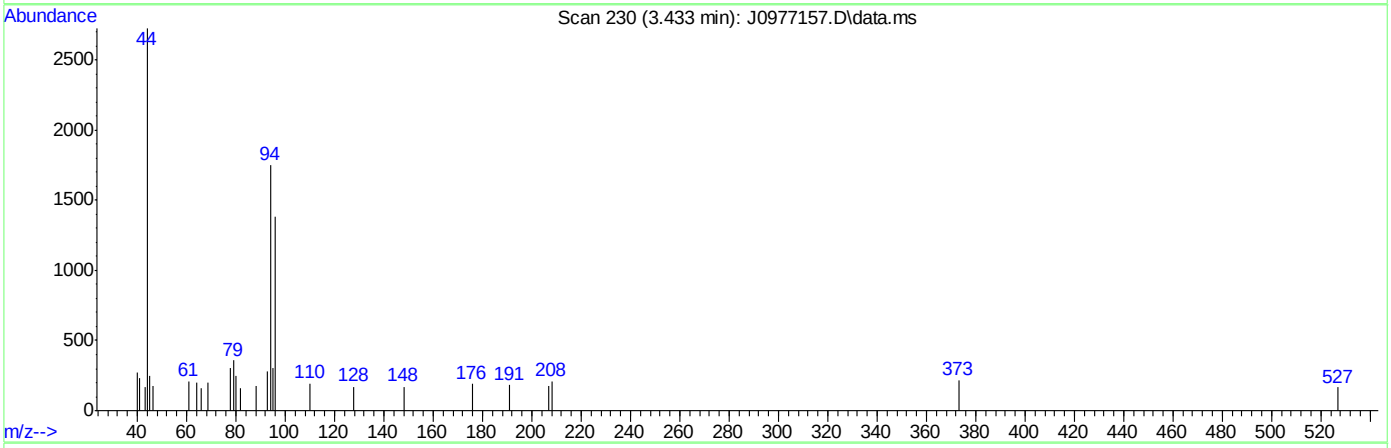
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977157.D\data.ms

(6) Bromomethane ( )

3.433min (-0.017) 2.23ug/L m

response 6004

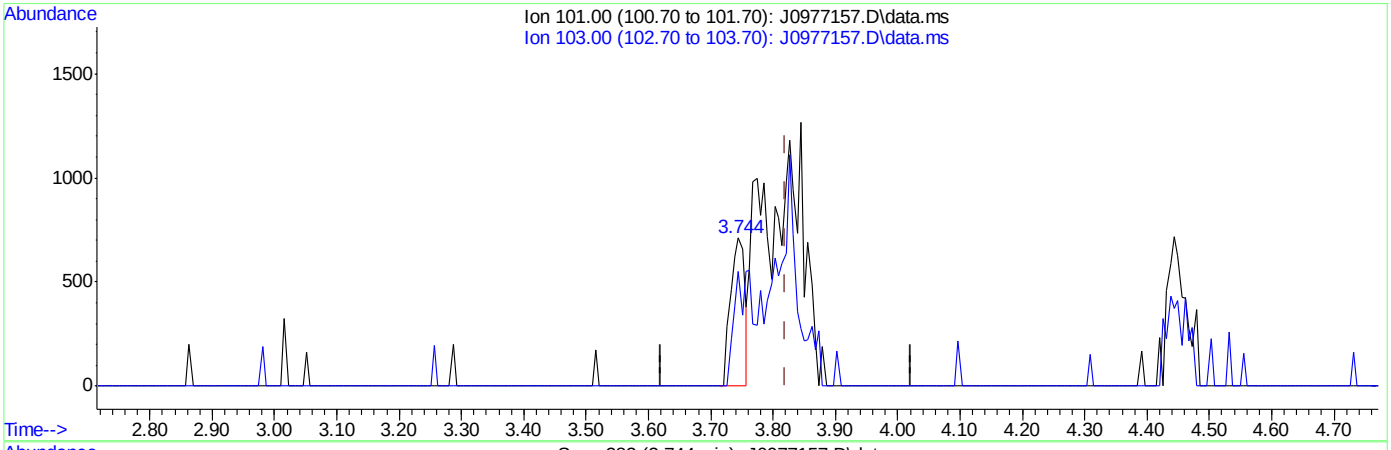
Ion	Exp%	Act%
94.00	100	100
96.00	91.00	79.12
93.00	21.30	16.03
0.00	0.00	0.00

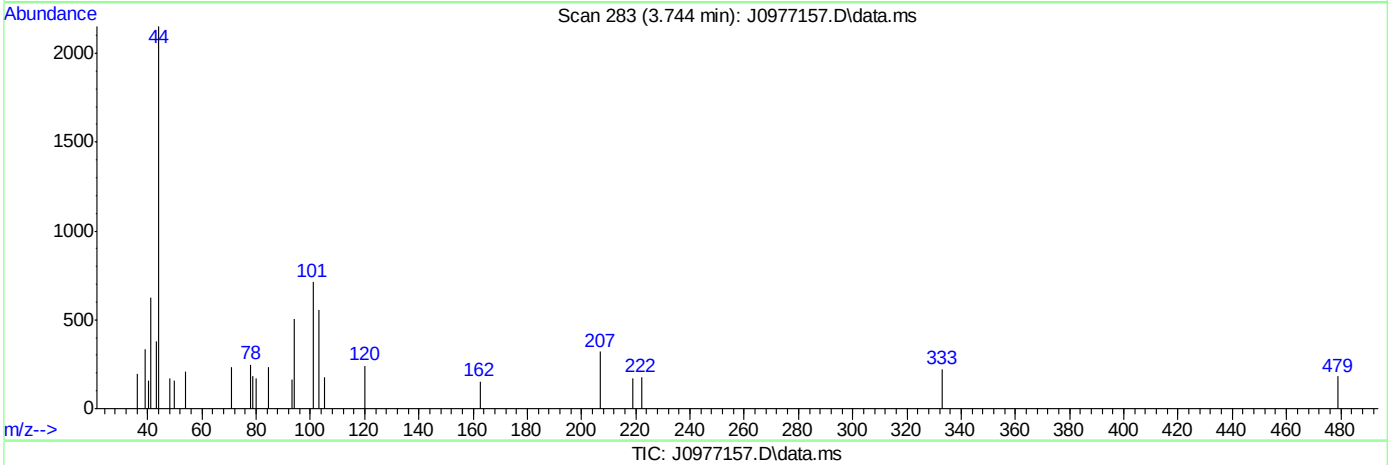
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977157.D\data.ms

(8) Trichlorofluoromethane ( )

3.744min (-0.077) 0.23ug/L

response 1102

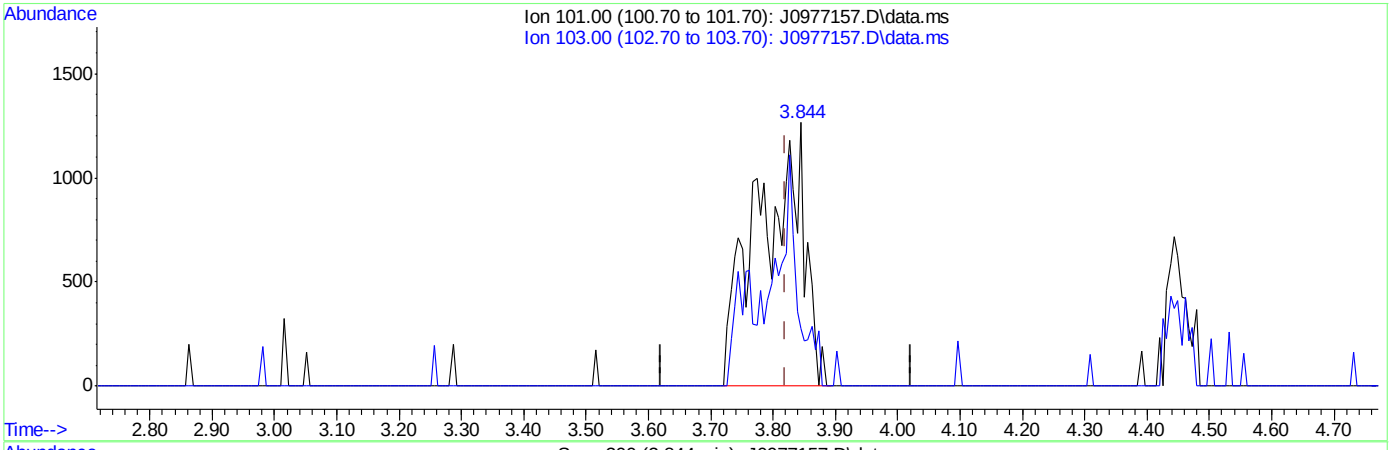
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	77.78
0.00	0.00	0.00
0.00	0.00	0.00

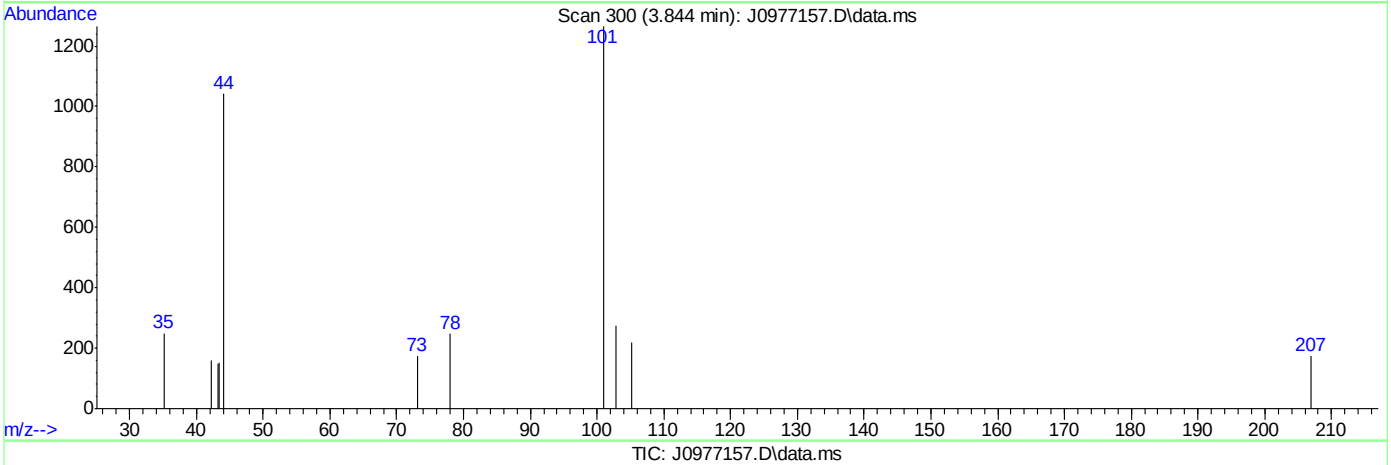
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977157.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.023) 1.33ug/L m

response 6407

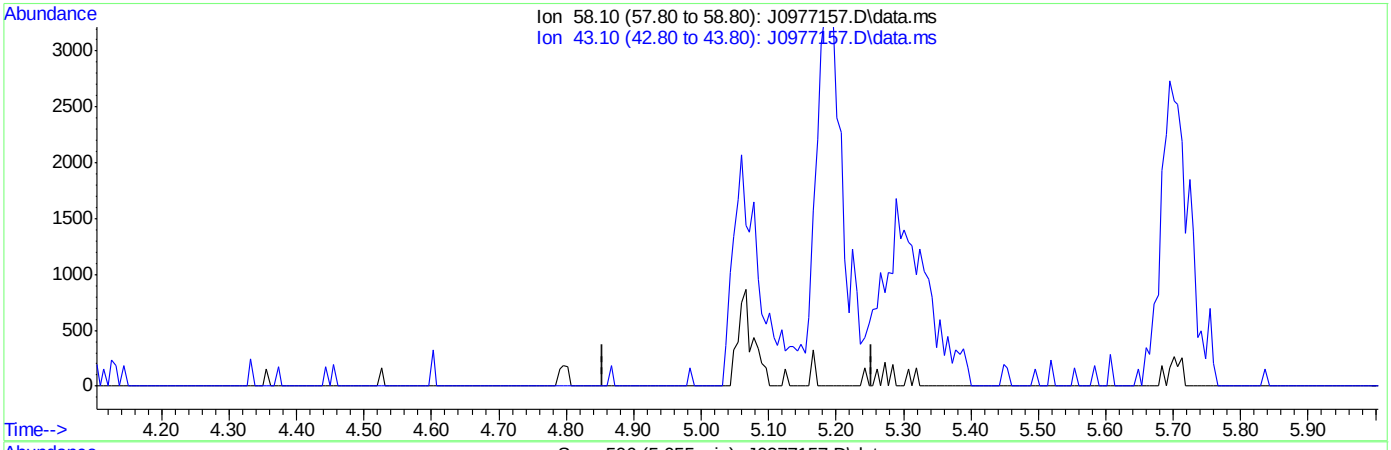
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	21.66#
0.00	0.00	0.00
0.00	0.00	0.00

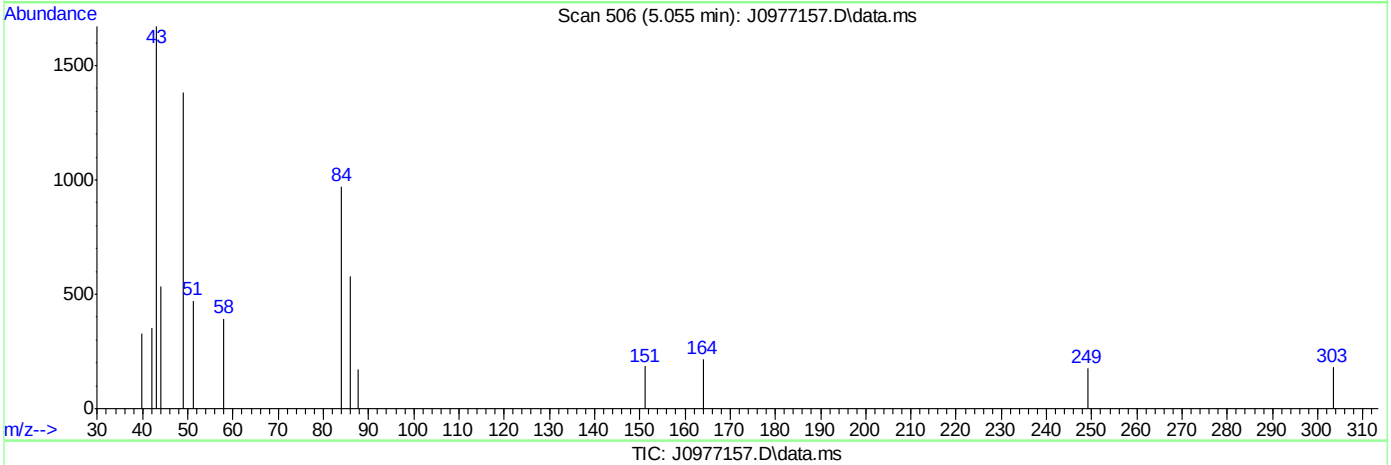
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977157.D\data.ms

(17) Acetone

5.054min (-5.054) 0.00ug/L

response 0

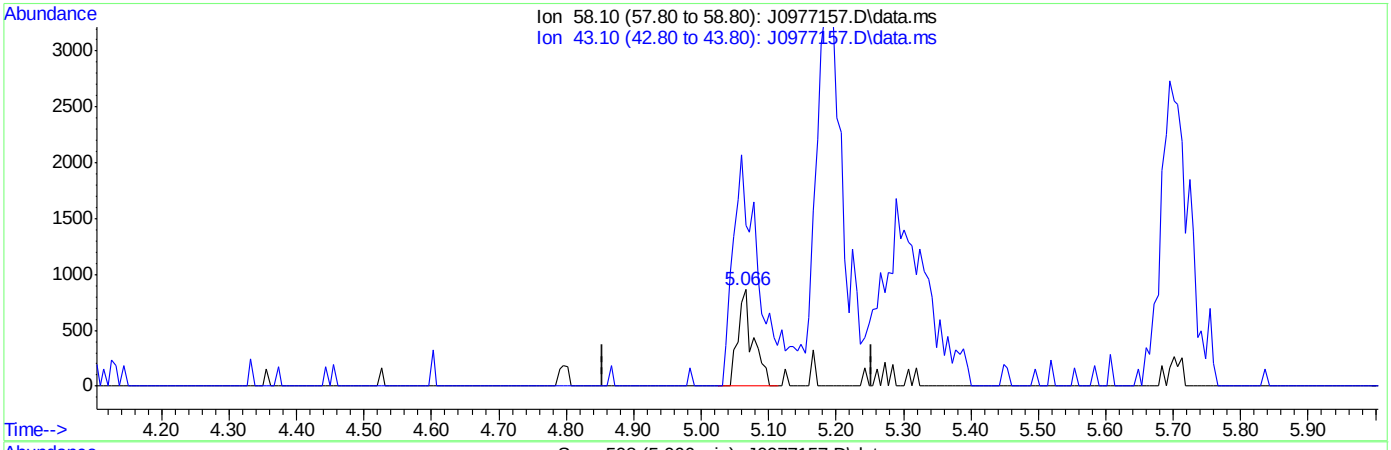
Ion	Exp%	Act%
58.10	100	0.00
43.10	301.90	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

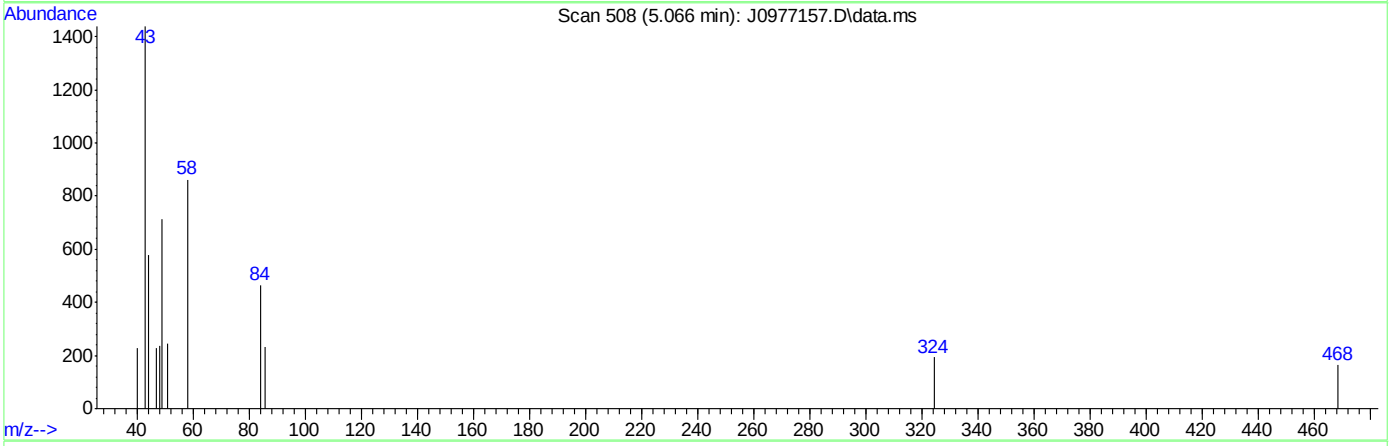
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977157.D\data.ms

(17) Acetone

5.066min (+0.012) 6.62ug/L m

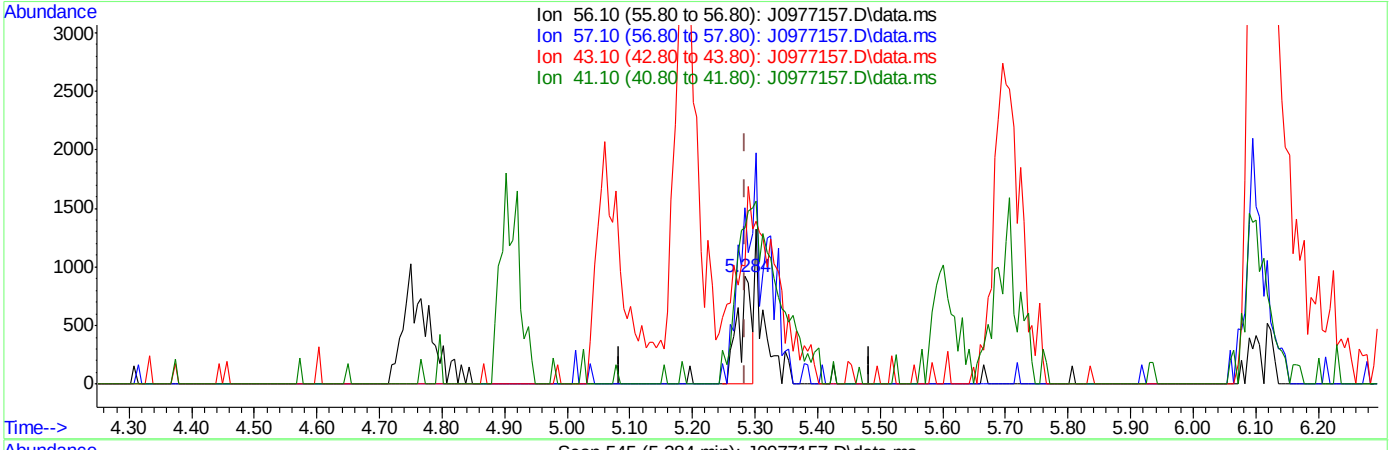
response 1328

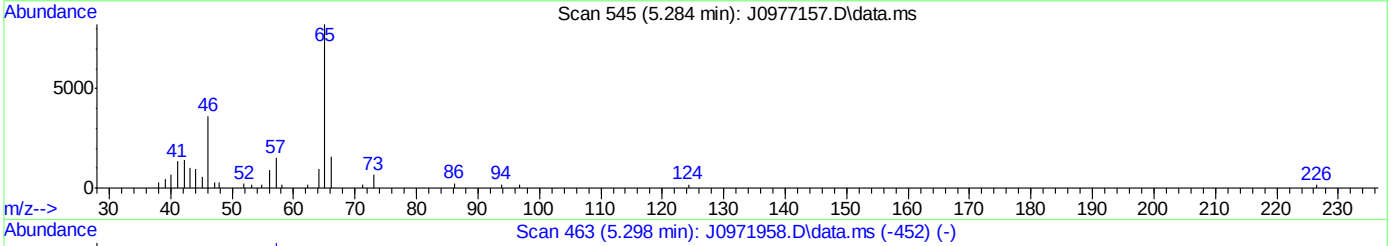
Ion	Exp%	Act%
58.10	100	100
43.10	301.90	166.74#
0.00	0.00	0.00
0.00	0.00	0.00

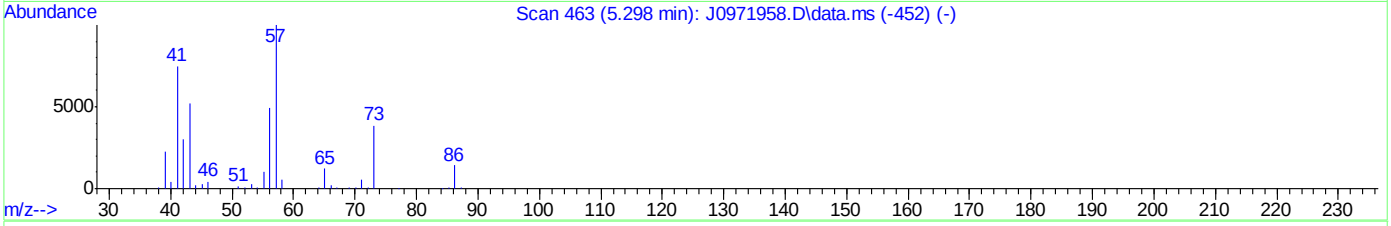
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration







TIC: J0977157.D\data.ms

(20) Hexane

5.284min (-0.000) 0.46ug/L

response 1324

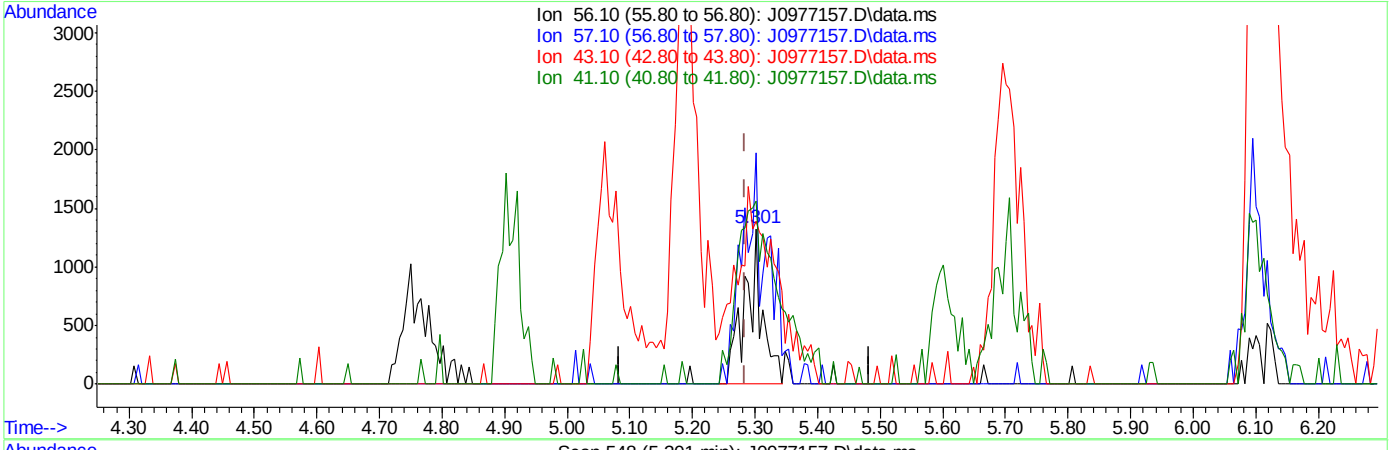
Ion	Exp%	Act%
56.10	100	100
57.10	197.20	145.21#
43.10	145.40	47.28#
41.10	147.10	113.29#

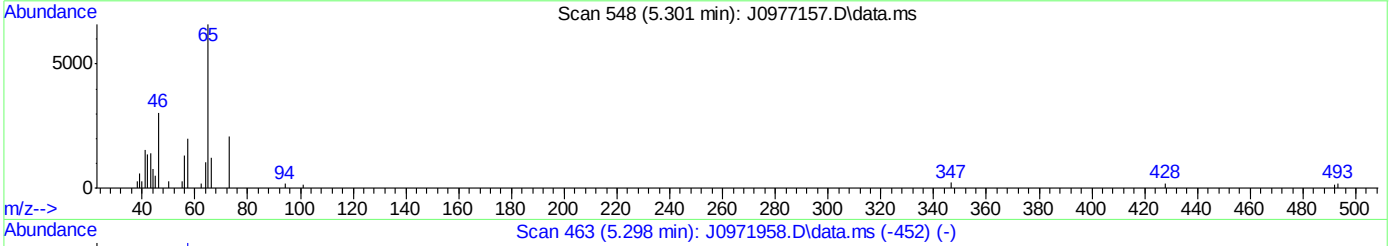
SGS ACCUTEST FA34748

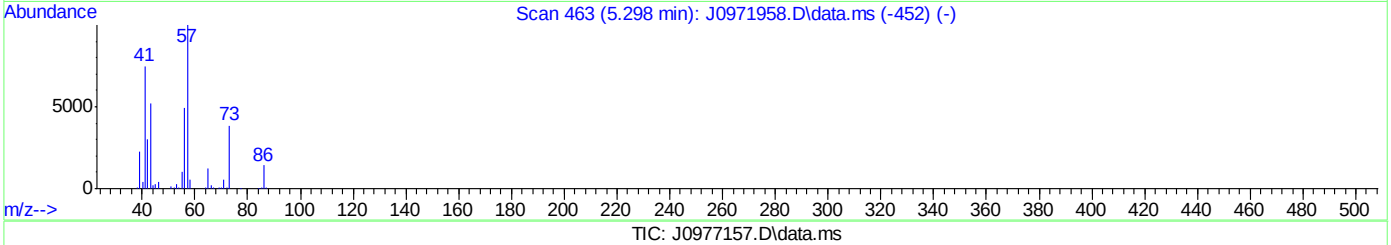
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration







TIC: J0977157.D\data.ms

(20) Hexane

5.301min (+0.017) 0.89ug/L m

response 2538

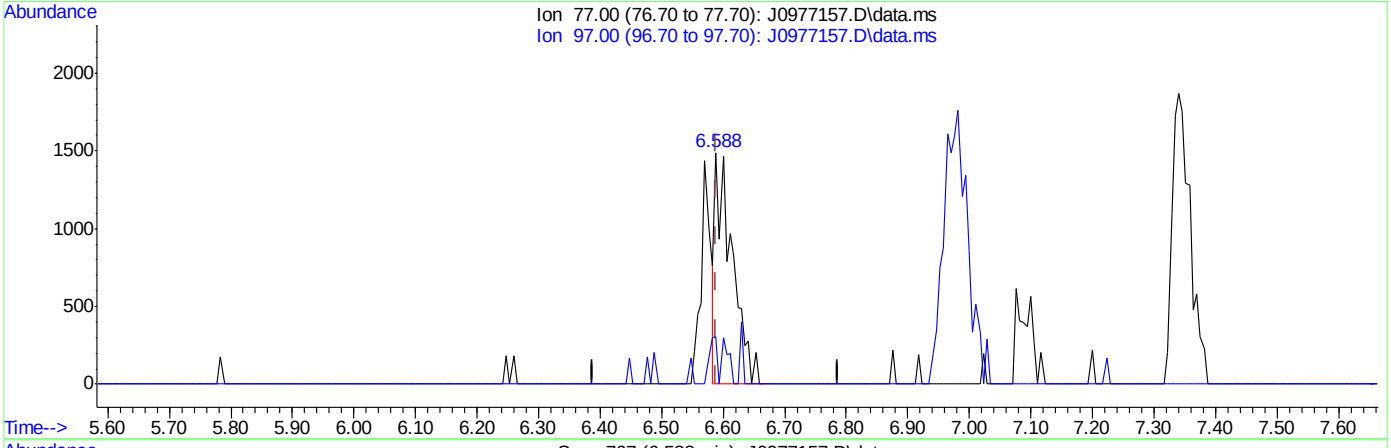
Ion	Exp%	Act%
56.10	100	100
57.10	197.20	149.21#
43.10	145.40	105.21#
41.10	147.10	117.66#

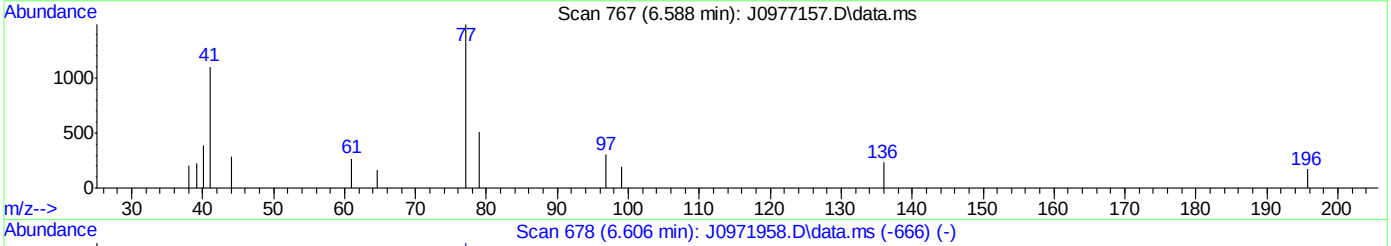
SGS ACCUTEST FA34748

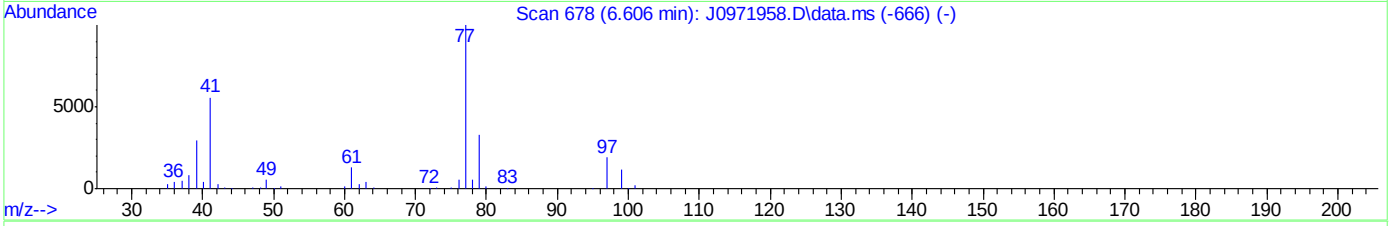
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration







TIC: J0977157.D\data.ms

(30) 2,2-Dichloropropane ( )

6.588min (+0.000) 0.74ug/L

response 2883

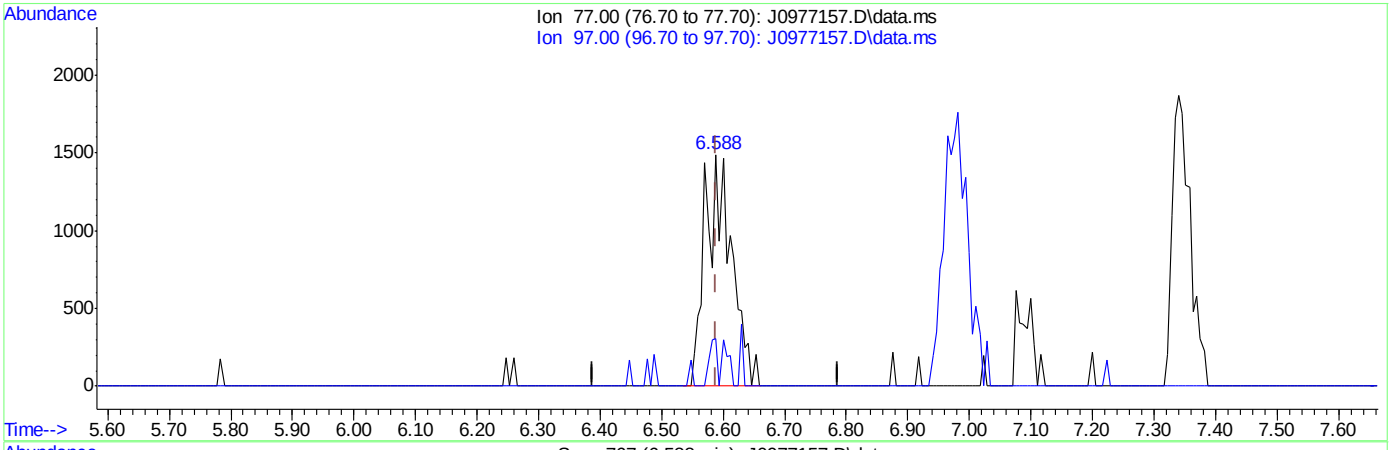
Ion	Exp%	Act%
77.00	100	100
97.00	21.50	20.40
0.00	0.00	0.00
0.00	0.00	0.00

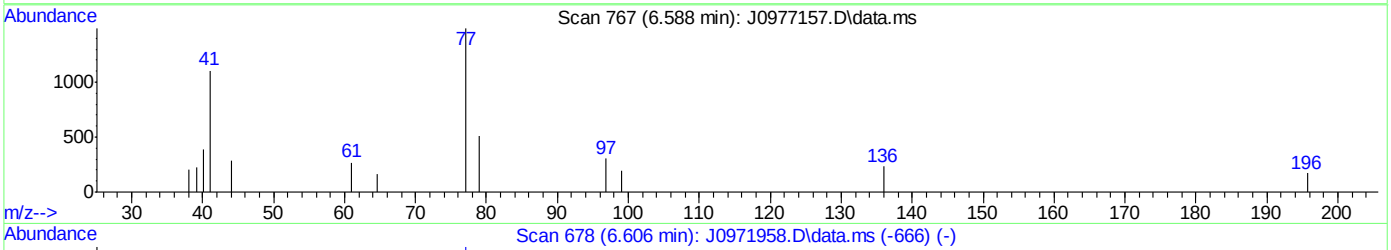
SGS ACCUTEST FA34748

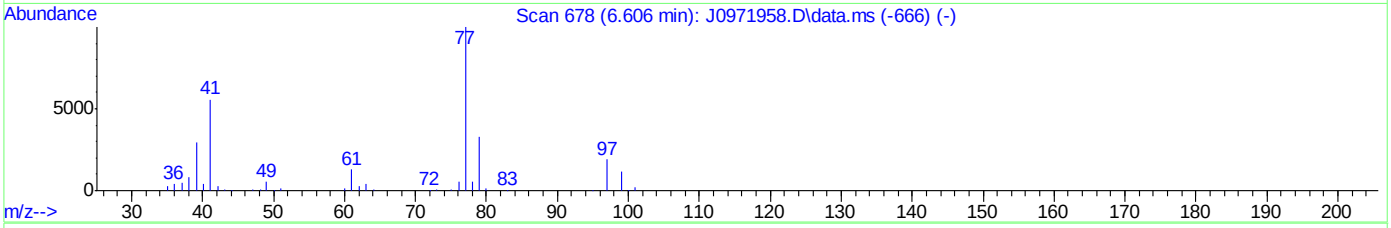
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration







TIC: J0977157.D\data.ms

(30) 2,2-Dichloropropane ( )

6.588min (+0.000) 1.13ug/L m

response 4427

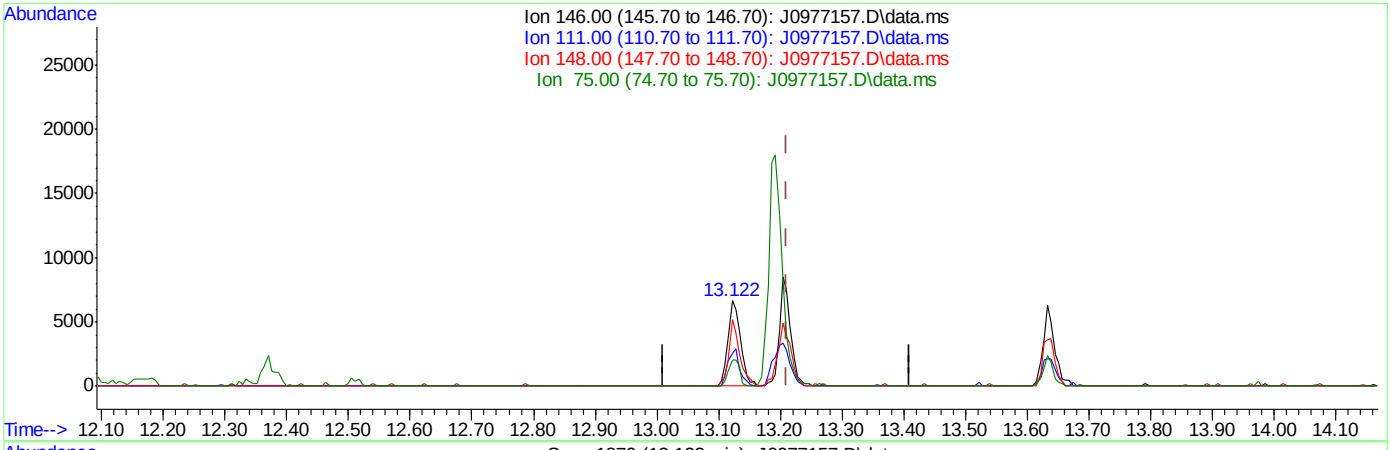
Ion	Exp%	Act%
77.00	100	100
97.00	21.50	20.40
0.00	0.00	0.00
0.00	0.00	0.00

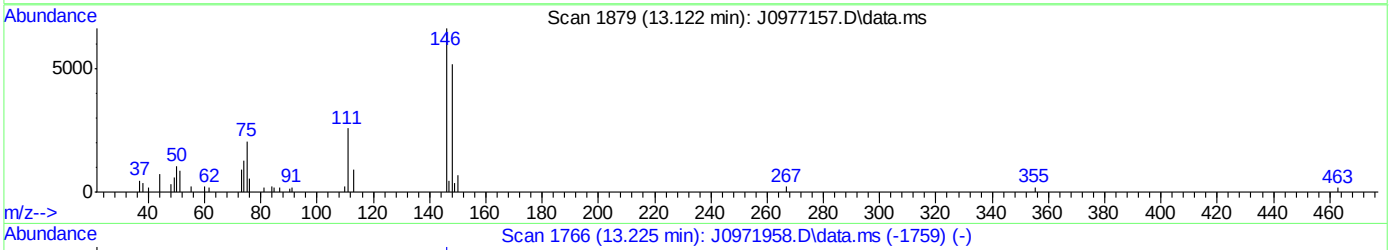
SGS ACCUTEST FA34748

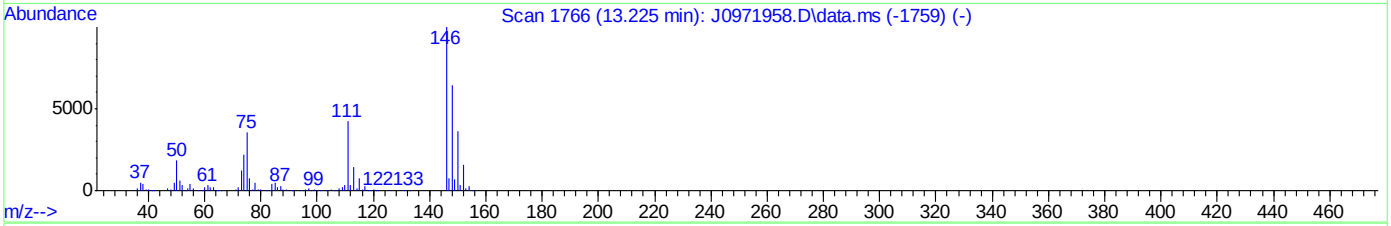
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration







TIC: J0977157.D\data.ms

(97) 1,4-Dichlorobenzene

13.122min (-0.088) 1.39ug/L

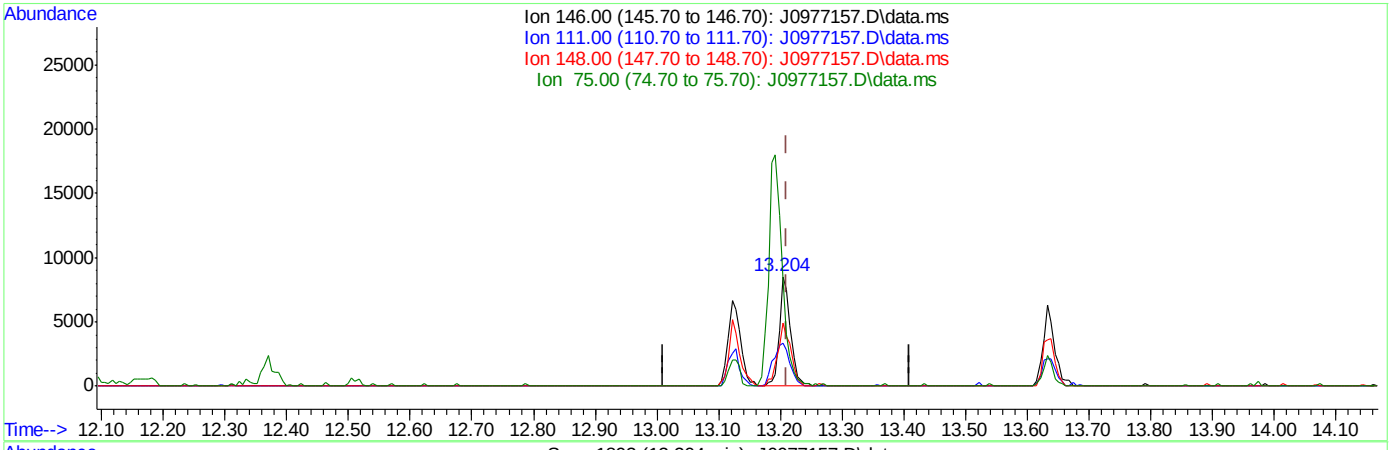
response 9360

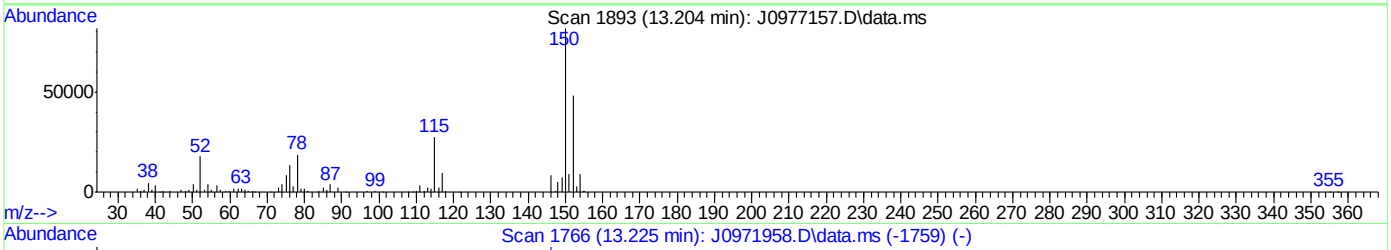
Ion	Exp%	Act%
146.00	100	100
111.00	36.10	39.00
148.00	61.00	78.10
75.00	30.90	30.83

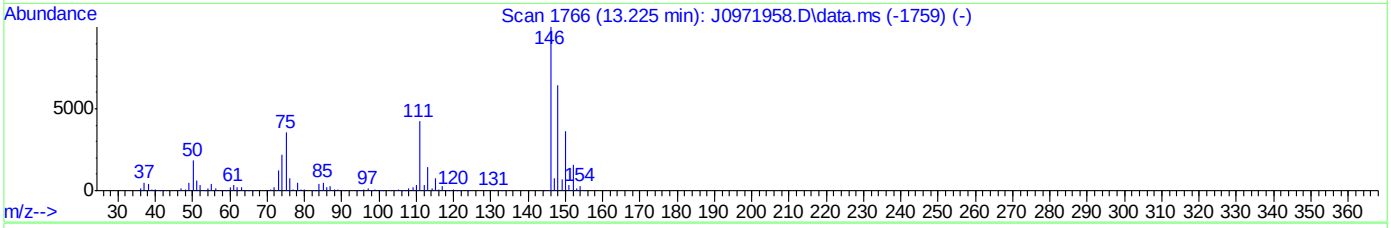
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration







TIC: J0977157.D\data.ms

(97) 1,4-Dichlorobenzene

13.204min (-0.006) 1.61ug/L m

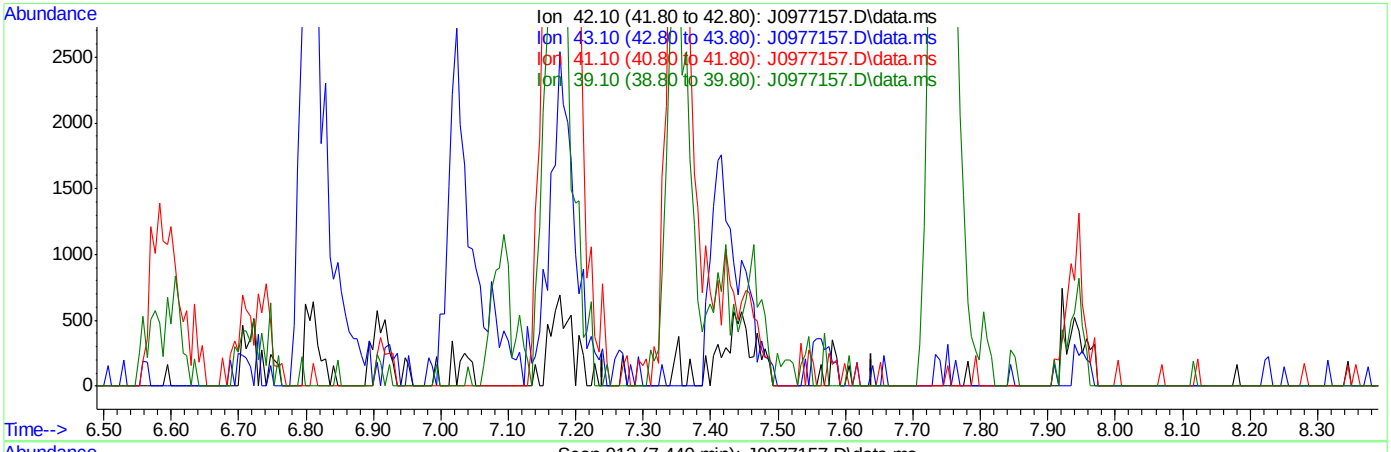
response 10793

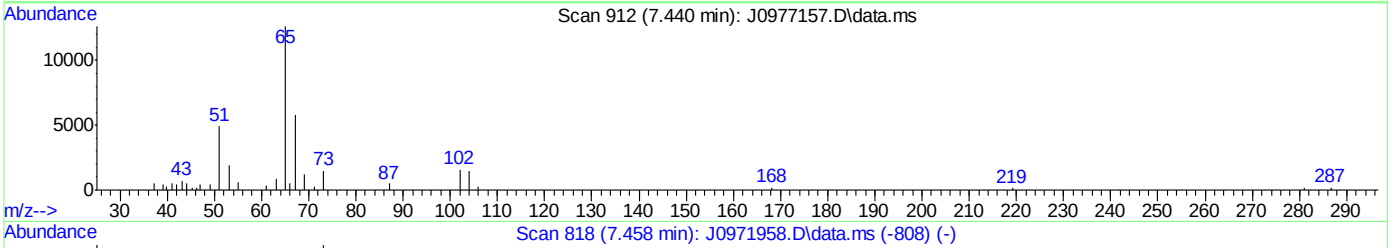
Ion	Exp%	Act%
146.00	100	100
111.00	36.10	39.19
148.00	61.00	57.91
75.00	30.90	97.87#

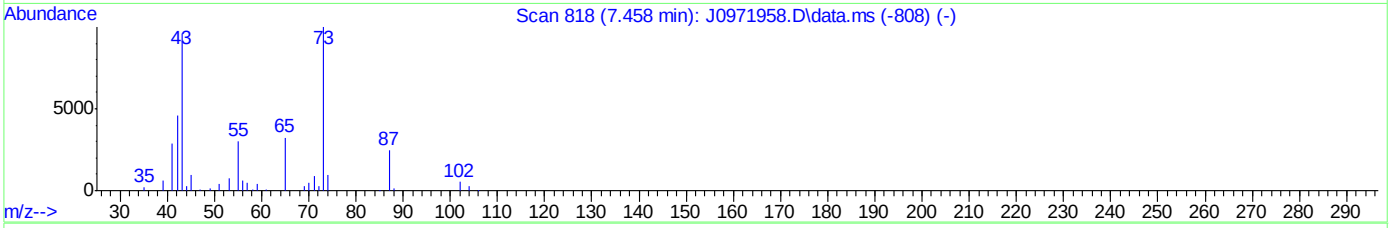
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration







TIC: J0977157.D\data.ms

(111) Isobutyl alcohol

7.440min (-7.440) 0.00ug/L

response 0

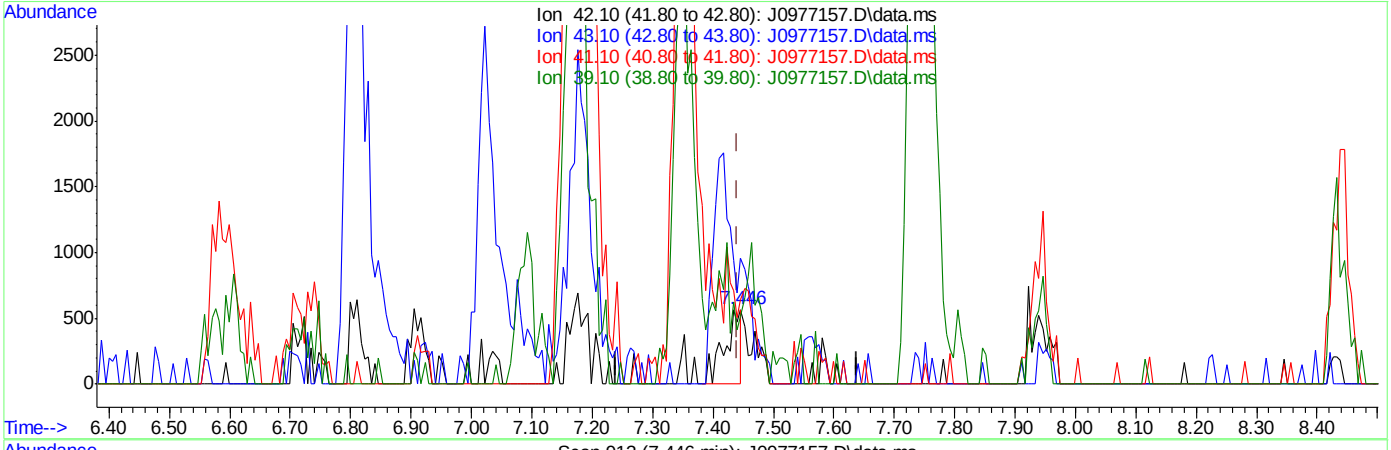
Ion	Exp%	Act%
42.10	100	0.00
43.10	260.00	0.00#
41.10	136.80	0.00#
39.10	58.90	0.00#

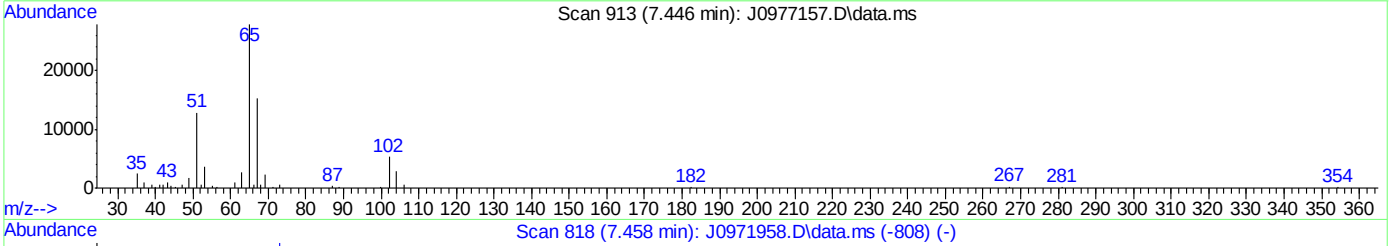
SGS ACCUTEST FA34748

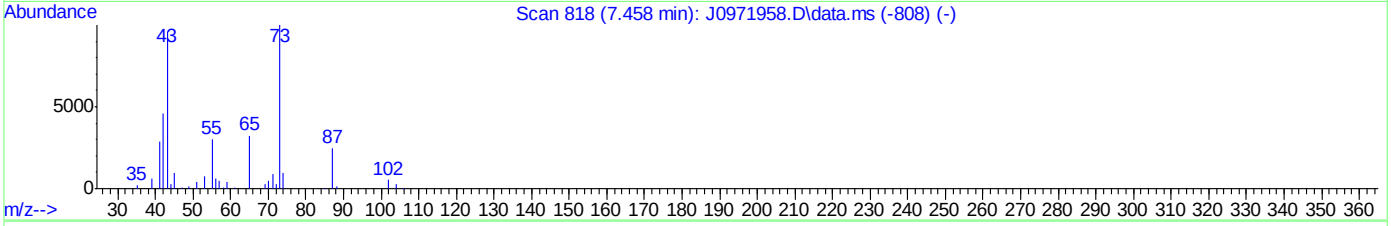
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977157.D
Acq On : 14 Jun 2016 9:40 am
Operator : darshnap
Sample : ic5333-1 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 11:05:30 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration







TIC: J0977157.D\data.ms

(111) Isobutyl alcohol

7.446min (+0.006) 17.35ug/L m

response 1110

Ion	Exp%	Act%
42.10	100	100
43.10	260.00	168.55#
41.10	136.80	113.96#
39.10	58.90	90.46#

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/15/16 16:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977158.D
Acq On : 14 Jun 2016 10:03 am
Operator : darshnap
Sample : ic5333-2 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 11:12:25 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	557912	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	406532	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	216550	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	34023	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	132860	48.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.22%			
46) 1,2-Dichloroethane-d4	7.464	65	174468	50.54	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.08%			
57) Toluene-d8	9.291	98	556538	51.23	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.46%			
79) 4-Bromofluorobenzene	12.041	95	209494	50.72	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.699	85	6063	1.79	ug/L	91
3) Chloromethane	2.881	50	17103	3.72	ug/L	96
4) Vinyl Chloride	3.016	62	13569	3.56	ug/L	62
5) 1,3-Butadiene	3.016	54	15288	6.92	ug/L	87
6) Bromomethane	3.451	94	13488	4.96	ug/L	99
7) Chloroethane	3.609	64	9578	3.88	ug/L	90
8) Trichlorofluoromethane	3.827	101	13135m	2.69	ug/L	
9) Ethyl Ether	4.109	59	12539	4.71	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.338	67	18474	5.41	ug/L #	82
11) 1,1-Dichloroethene	4.391	61	24344	5.03	ug/L	91
12) Freon 113	4.473	101	15126	5.28	ug/L #	76
13) Carbon Disulfide	4.467	76	50394	4.87	ug/L	97
14) Iodomethane	4.585	142	22470	4.54	ug/L	96
15) Allyl chloride	4.914	41	23939	4.54	ug/L	99
16) Methylene Chloride	5.031	49	24532	4.71	ug/L	97
17) Acetone	5.061	58	4285	20.93	ug/L #	60
18) Methyl acetate	5.190	74	7549	20.63	ug/L #	89
19) trans-1,2-Dichloroethene	5.219	61	20251	4.59	ug/L	80
20) Hexane	5.290	56	14170	4.85	ug/L #	83
21) Methyl Tert Butyl Ether	5.319	73	39663	4.74	ug/L	92
22) Acetonitrile	5.583	40	7714	47.47	ug/L #	58
23) Di-isopropyl ether	5.707	45	50603	4.26	ug/L	95
24) Chloroprene	5.860	53	24248	4.44	ug/L	96
25) 1,1-Dichloroethane	5.889	63	26323	4.67	ug/L	96
26) Acrylonitrile	5.924	53	23802	24.45	ug/L	91
27) ETBE	6.101	59	46706	4.12	ug/L	96
28) Vinyl acetate	6.101	43	147498	24.06	ug/L	96
29) cis-1,2-Dichloroethene	6.471	96	15248	4.54	ug/L	96
30) 2,2-Dichloropropane	6.588	77	18399	4.59	ug/L	96
31) Bromochloromethane	6.676	128	6817	4.60	ug/L	91
32) Cyclohexane	6.717	56	25976	4.05	ug/L	96
33) Chloroform	6.723	83	27237	4.71	ug/L	92
34) Ethyl acetate	6.800	43	59824	26.14	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977158.D
Acq On : 14 Jun 2016 10:03 am
Operator : darshnap
Sample : ic5333-2 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 11:12:25 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.911	42	3149	4.75	ug/L		87
37) Carbon Tetrachloride	6.923	117	18722	4.71	ug/L		89
38) 1,1,1-Trichloroethane	6.982	97	23310	4.86	ug/L		89
39) 2-Butanone	7.023	43	20766	19.92	ug/L		97
40) 1,1-Dichloropropene	7.099	75	19203	4.50	ug/L		89
41) tert-Butyl Formate	7.170	59	93709	44.92	ug/L		89
42) Propionitrile	7.329	54	13704	41.36	ug/L	#	37
43) Methacrylonitrile	7.346	41	74120	48.80	ug/L		96
44) Benzene	7.346	78	55567	4.55	ug/L		95
45) TAME	7.423	73	36031	3.94	ug/L		90
47) 1,2-Dichloroethane	7.534	62	21235	5.11	ug/L		95
48) Trichloroethene	7.928	95	14735	4.85	ug/L		91
49) Methylcyclohexane	7.945	83	24808	4.30	ug/L		97
50) Dibromomethane	8.345	93	8162	4.93	ug/L		84
51) 1,2-Dichloropropane	8.439	63	15125	4.53	ug/L		83
52) Bromodichloromethane	8.486	83	17666	4.24	ug/L		86
53) Methyl methacrylate	8.586	41	7926	3.69	ug/L		82
54) 2-Chloroethyl vinyl ether	8.997	63	34865	19.92	ug/L		95
55) cis-1,3-Dichloropropene	9.097	75	20172	4.26	ug/L		89
58) Toluene	9.344	91	62262	4.92	ug/L		96
59) 2-Nitropropane	9.544	41	12038	19.24	ug/L		86
60) 4-Methyl-2-pentanone	9.661	43	54304	21.78	ug/L		95
61) trans-1,3-Dichloropropene	9.726	75	16539	4.06	ug/L		99
62) Tetrachloroethene	9.749	166	15377	5.45	ug/L		92
63) Ethyl methacrylate	9.832	69	13335	4.36	ug/L		92
64) 1,1,2-Trichloroethane	9.896	83	9794	4.66	ug/L		85
65) Dibromochloromethane	10.090	129	11776	4.27	ug/L		96
66) 1,3-Dichloropropane	10.172	76	18655	4.13	ug/L		92
67) 1,2-Dibromoethane	10.349	107	10102	4.08	ug/L		96
68) 2-hexanone	10.478	43	36542	21.61	ug/L		91
69) 1-Chlorohexane	10.783	91	17474	4.26	ug/L		89
70) Ethylbenzene	10.848	91	69418	4.62	ug/L		100
71) Chlorobenzene	10.854	112	38451	4.86	ug/L		97
72) 1,1,1,2-Tetrachloroethane	10.901	131	13292	4.49	ug/L		92
73) m,p-Xylene	10.989	91	102681	8.74	ug/L		99
74) o-Xylene	11.430	91	49227	4.04	ug/L		98
75) Styrene	11.477	104	36512	3.99	ug/L		93
76) Bromoform	11.535	173	6163	3.88	ug/L		87
77) Isopropylbenzene	11.729	105	57794	4.37	ug/L		97
80) cis-1,4-Dichloro-2-butene	12.070	53	1160	1.51	ug/L	#	39
81) n-Propylbenzene	12.152	91	76226	4.62	ug/L		93
82) Bromobenzene	12.170	156	17312	5.23	ug/L		78
83) 1,1,2,2-Tetrachloroethane	12.211	83	12811	4.10	ug/L		99
84) 1,3,5-Trimethylbenzene	12.329	105	54450	4.43	ug/L		98
85) 2-Chlorotoluene	12.340	91	53756	4.61	ug/L		98
86) trans-1,4-Dichloro-2-B...	12.399	53	1185	1.58	ug/L	#	13
87) 1,2,3-Trichloropropane	12.370	110	4059	5.48	ug/L		82
88) Cyclohexanone	12.434	55	2238	21.21	ug/L	#	81
89) 4-Chlorotoluene	12.505	91	45730	4.40	ug/L		98
90) a-Methyl Styrene	12.599	118	24144	3.95	ug/L		96

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977158.D
Acq On : 14 Jun 2016 10:03 am
Operator : darshnap
Sample : ic5333-2 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 11:12:25 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	30287	4.31	ug/L		97
92)	1,2,4-Trimethylbenzene	12.740	105	51743	4.31	ug/L		99
93)	Pentachloroethane	12.722	167	8972	4.32	ug/L		92
94)	sec-Butylbenzene	12.857	105	64177	4.46	ug/L		95
95)	4-Isopropyltoluene	12.987	119	52509	4.45	ug/L		98
96)	1,3-Dichlorobenzene	13.122	146	30976	4.76	ug/L		96
97)	1,4-Dichlorobenzene	13.204	146	34918	5.18	ug/L		89
98)	n-Butylbenzene	13.422	92	29236	4.19	ug/L		95
99)	Benzyl Chloride	13.433	126	3120	3.35	ug/L	#	75
100)	1,2-Dichlorobenzene	13.633	146	28695	4.32	ug/L		94
101)	1,2-Dibromo-3-Chloropr...	14.367	75	2089	4.59	ug/L	#	73
102)	Hexachlorobutadiene	14.914	225	9509	4.62	ug/L		97
103)	1,2,4-Trichlorobenzene	14.961	180	18067	4.51	ug/L		84
104)	Naphthalene	15.249	128	21046	3.26	ug/L		96
105)	1,2,3-Trichlorobenzene	15.413	180	13948	3.81	ug/L		89
107)	Ethanol	4.256	45	1325m	54.77	ug/L		
108)	acrolein	4.755	56	10240	29.66	ug/L		86
109)	Tert Butyl Alcohol	5.366	59	8371	44.43	ug/L		99
110)	tert Amyl alcohol	7.558	59	6093	43.19	ug/L		87
111)	Isobutyl alcohol	7.446	42	7459	116.25	ug/L	#	58
112)	1,4-Dioxane	8.674	88	642	39.76	ug/L	#	55
113)	3,3-Dimethyl-1-butanol	10.425	57	32155	208.30	ug/L		94

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

7.6.2

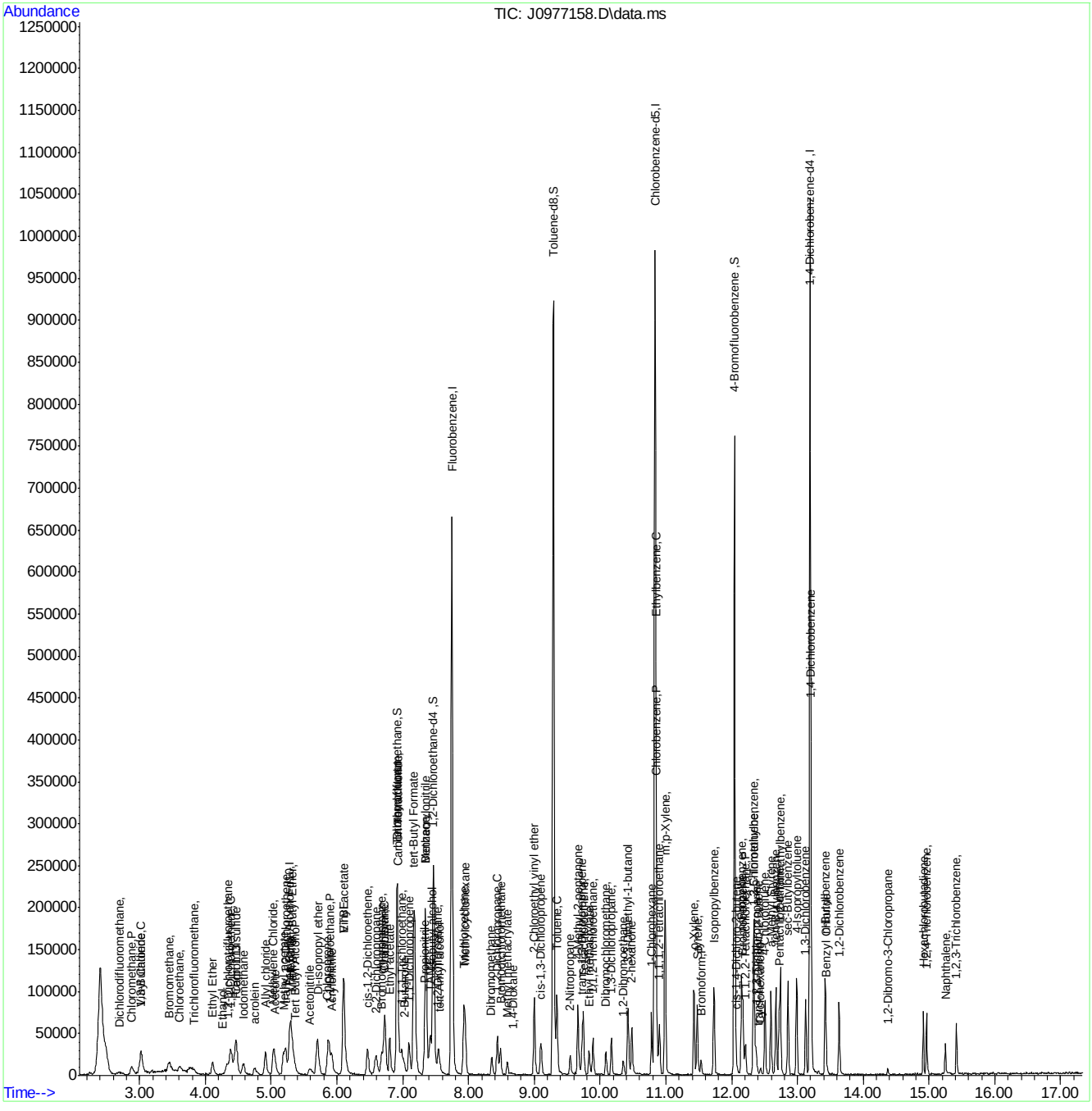
7

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977158.D
Acq On : 14 Jun 2016 10:03 am
Operator : darshnap
Sample : ic5333-2 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 11:12:25 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration



SGS ACCUTEST FA34748

Manual Integration Approval Summary

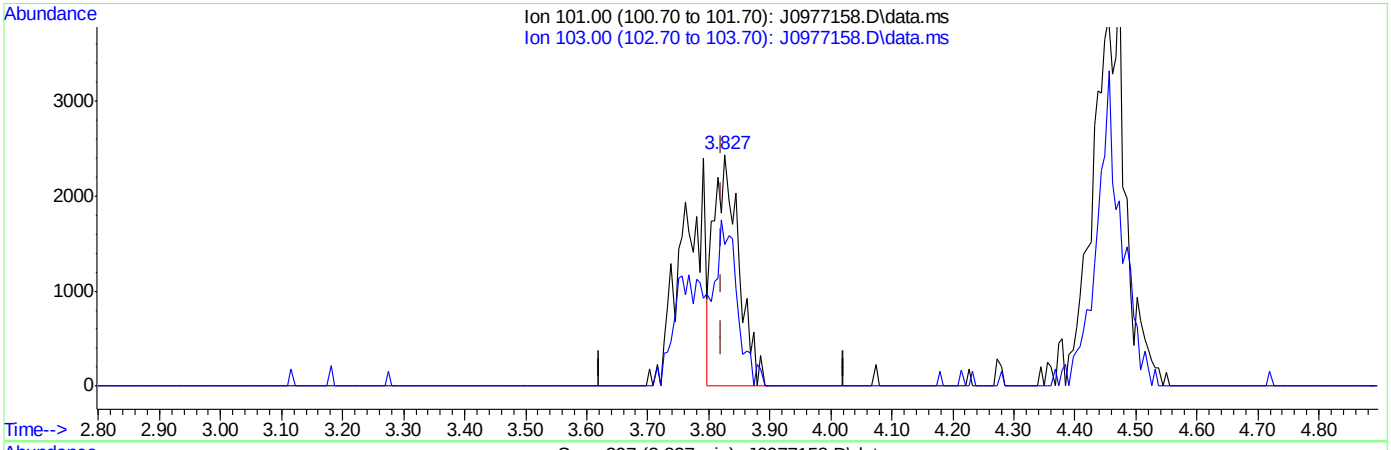
Sample Number:	VJ5333-IC5333	**Method:**	SW846 8260B
Lab FileID:	J0977158.D	**Analyst approved:**	06/15/16 07:59 Darshna Patel
Injection Time:	06/14/16 10:03	**Supervisor approved:**	06/15/16 16:05 Juan Garcia

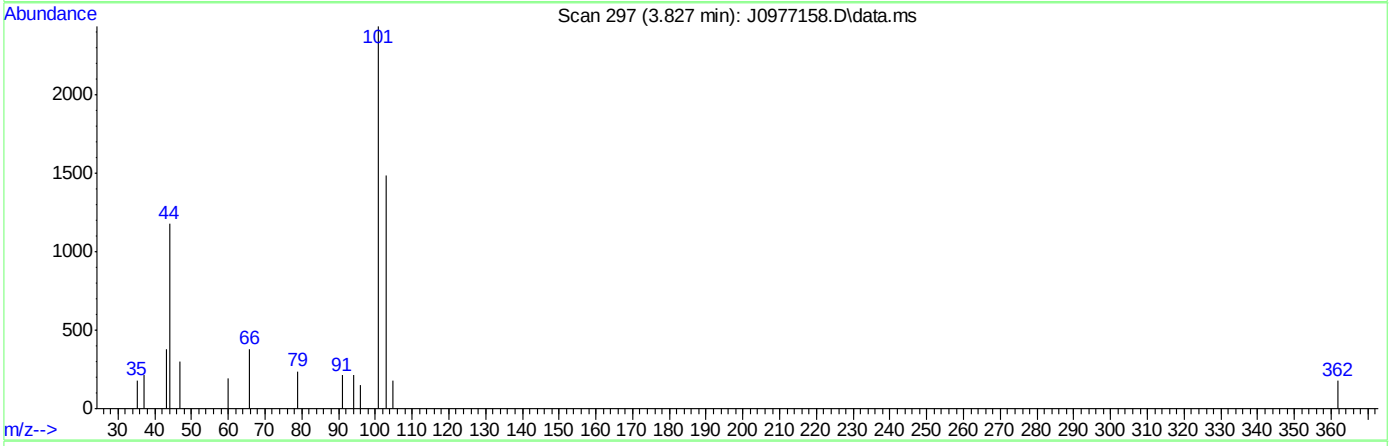
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977158.D
Acq On : 14 Jun 2016 10:03 am
Operator : darshnap
Sample : ic5333-2 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 11:05:33 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977158.D\data.ms

(8) Trichlorofluoromethane ( )

3.827min (+0.006) 1.42ug/L

response 6944

Ion	Exp%	Act%
101.00	100	100
103.00	69.60	61.07
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977158.D
Acq On : 14 Jun 2016 10:03 am
Operator : darshnap
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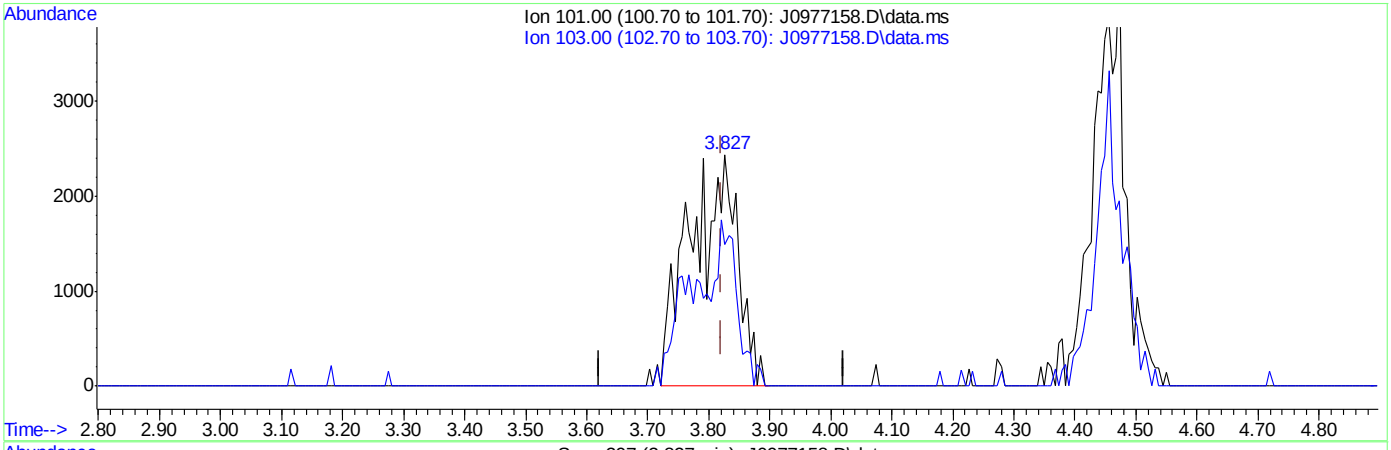
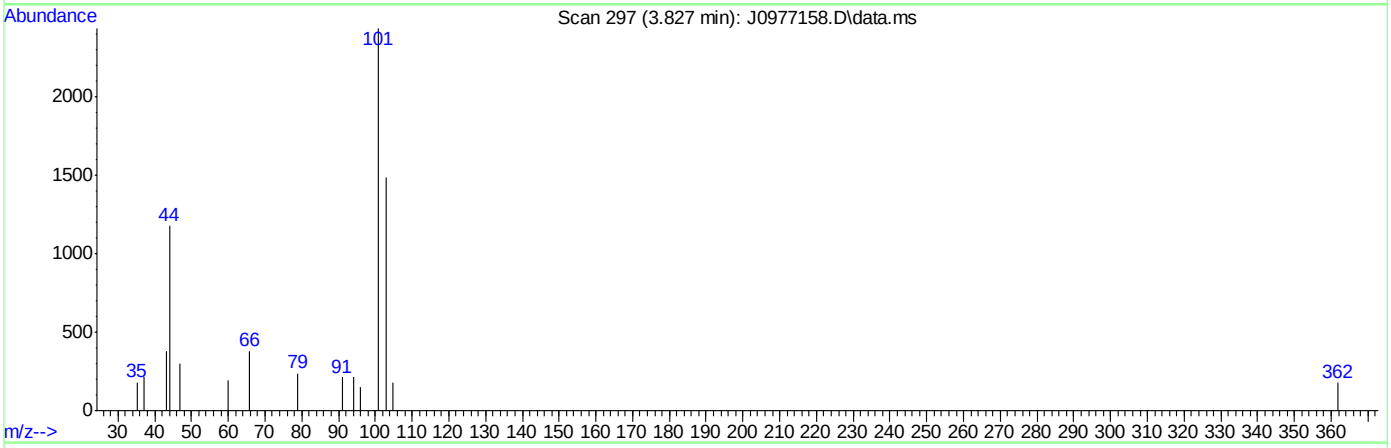
Misc : MS34133,VJ5333,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 11:05:33 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977158.D\data.ms

(8) Trichlorofluoromethane ( )

3.827min (+0.006) 2.69ug/L m

response 13135

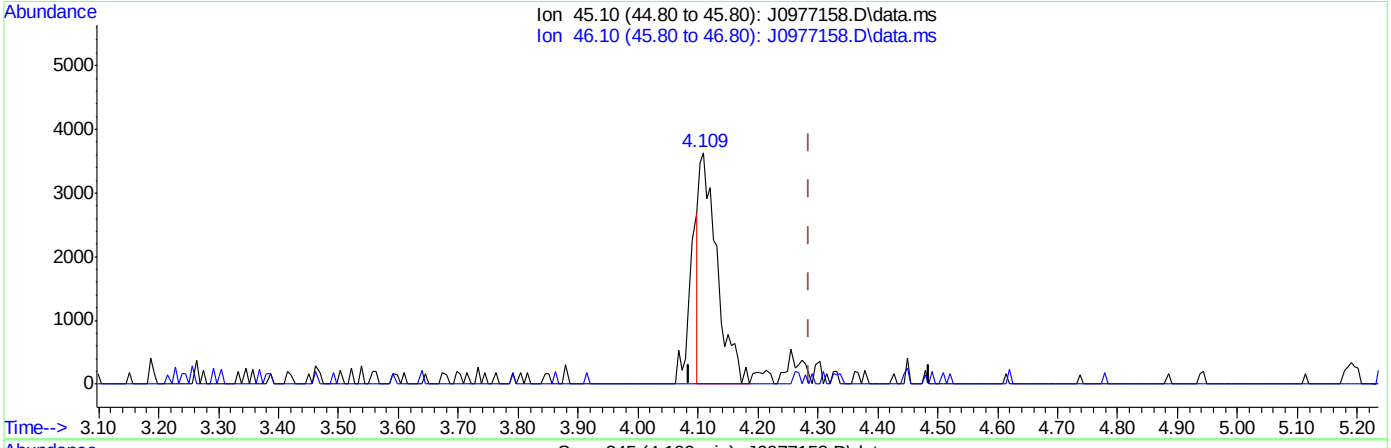
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	61.07
0.00	0.00	0.00
0.00	0.00	0.00

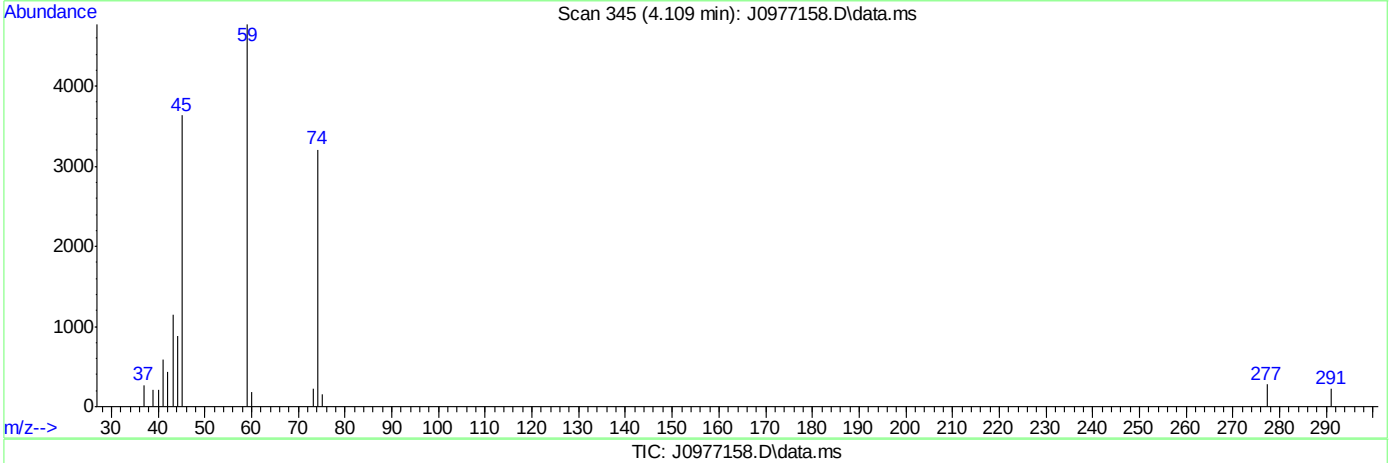
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977158.D
Acq On : 14 Jun 2016 10:03 am
Operator : darshnap
Sample : ic5333-2 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 11:05:33 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977158.D\data.ms

(107) Ethanol

4.109min (-0.176) 324.14ug/L

response 7674

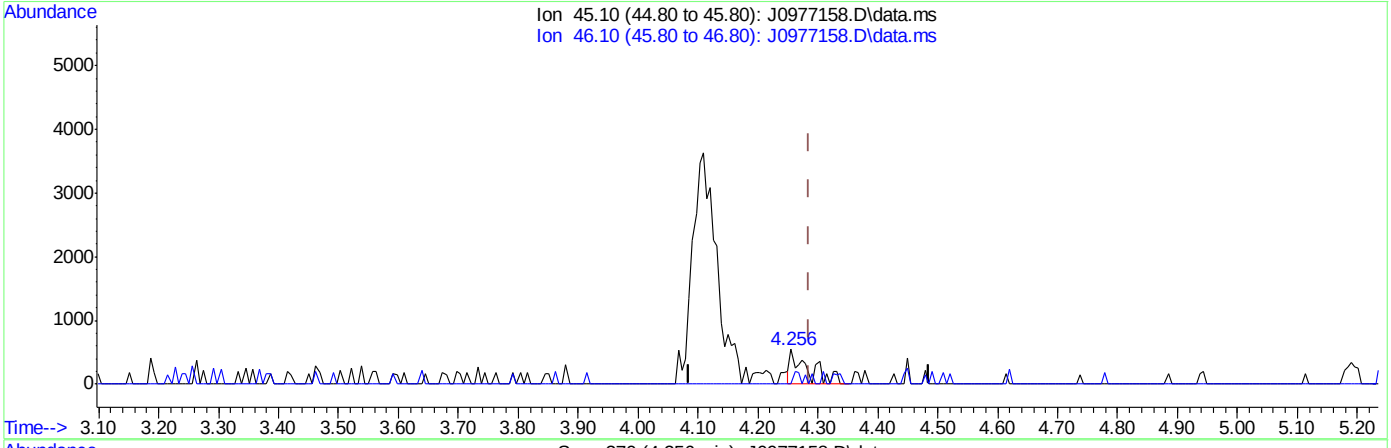
Ion	Exp%	Act%
45.10	100	100
46.10	24.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

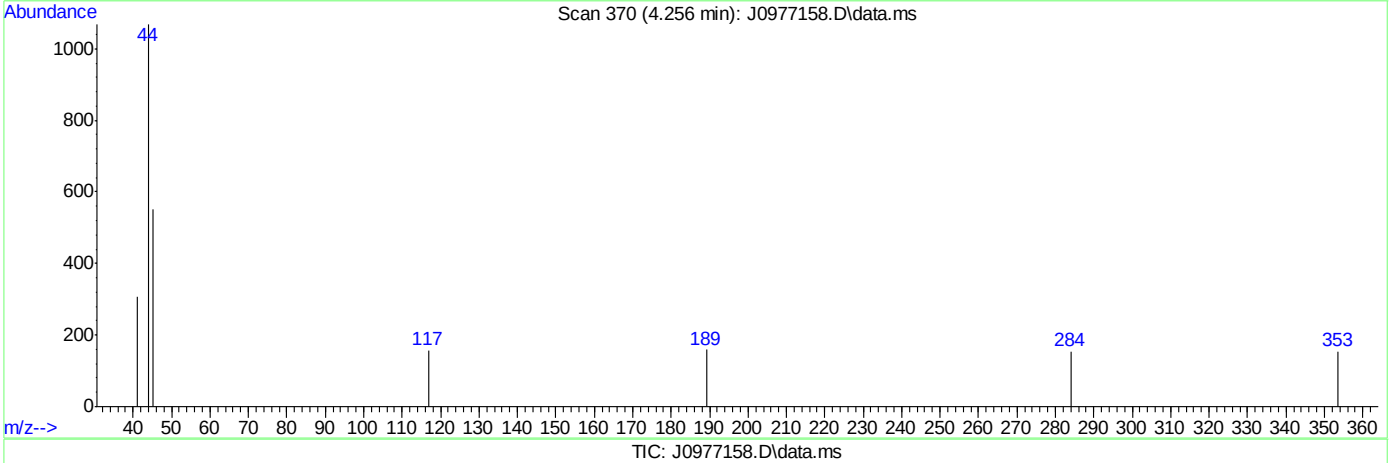
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977158.D
Acq On : 14 Jun 2016 10:03 am
Operator : darshnap
Sample : ic5333-2 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 11:05:33 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977158.D\data.ms

(107) Ethanol

4.256min (-0.029) 46.72ug/L m

response 1131

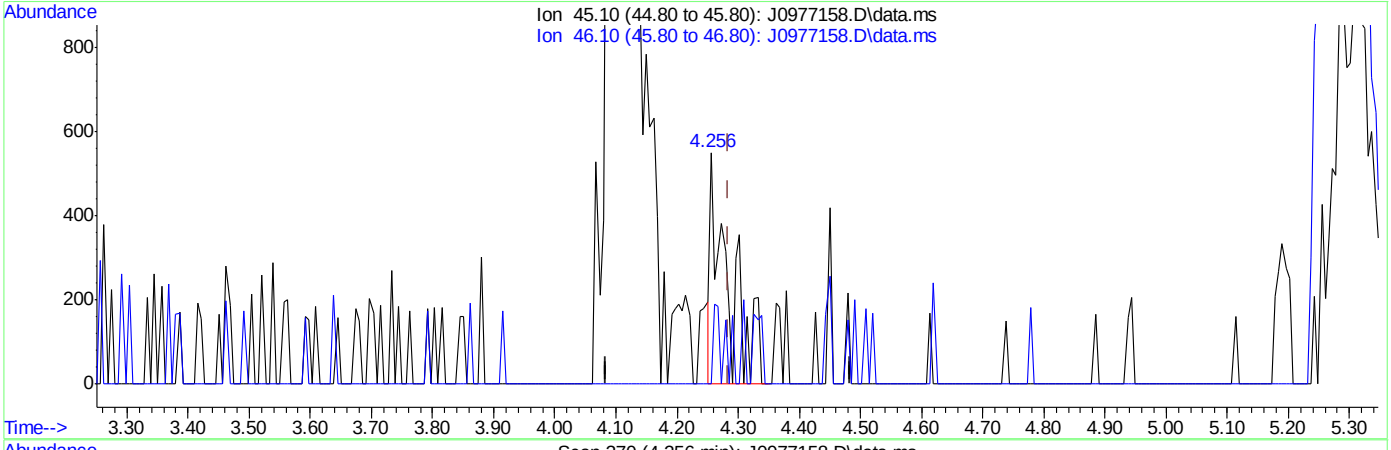
Ion	Exp%	Act%
45.10	100	100
46.10	24.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

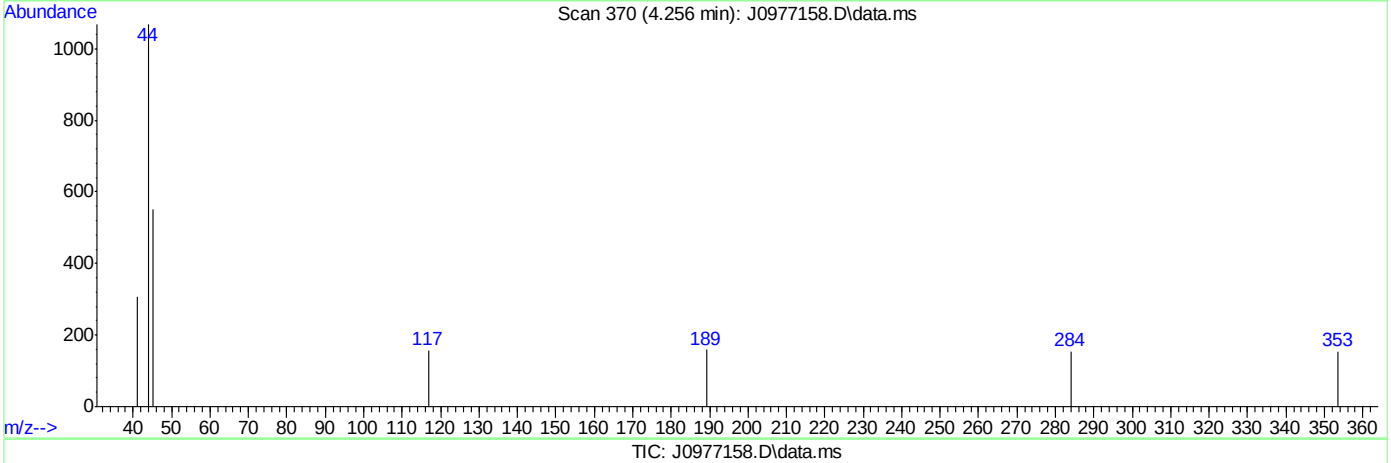
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977158.D
Acq On : 14 Jun 2016 10:03 am
Operator : darshnap
Sample : ic5333-2 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 11:05:33 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977158.D\data.ms

(107) Ethanol

4.256min (-0.029) 46.72ug/L m

response 1131

Ion	Exp%	Act%
45.10	100	100
46.10	24.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977158.D
Acq On : 14 Jun 2016 10:03 am
Operator : darshnap
Sample : ic5333-2 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 14 11:05:33 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
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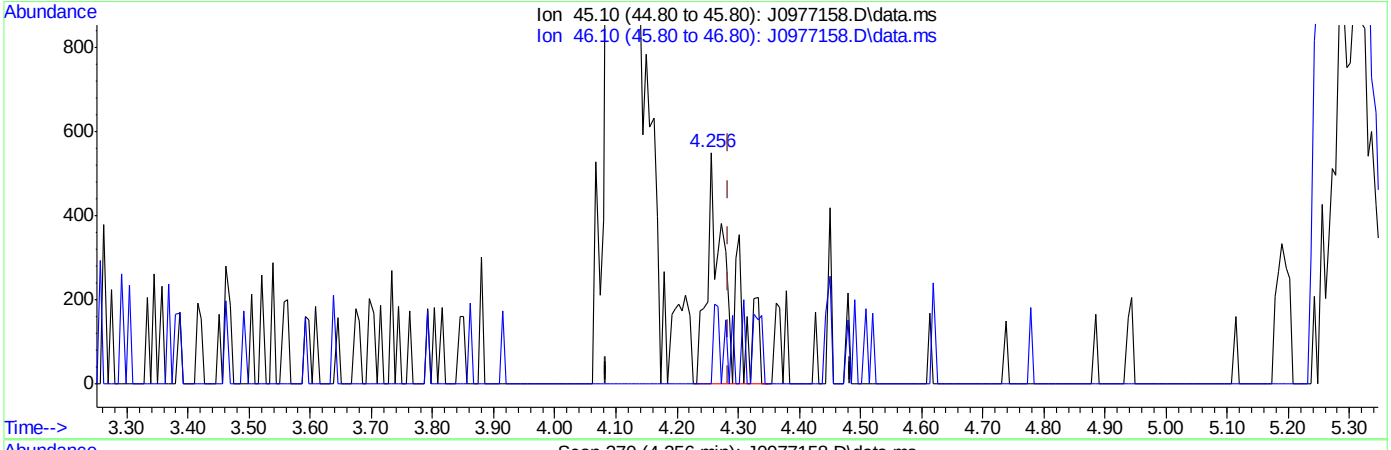
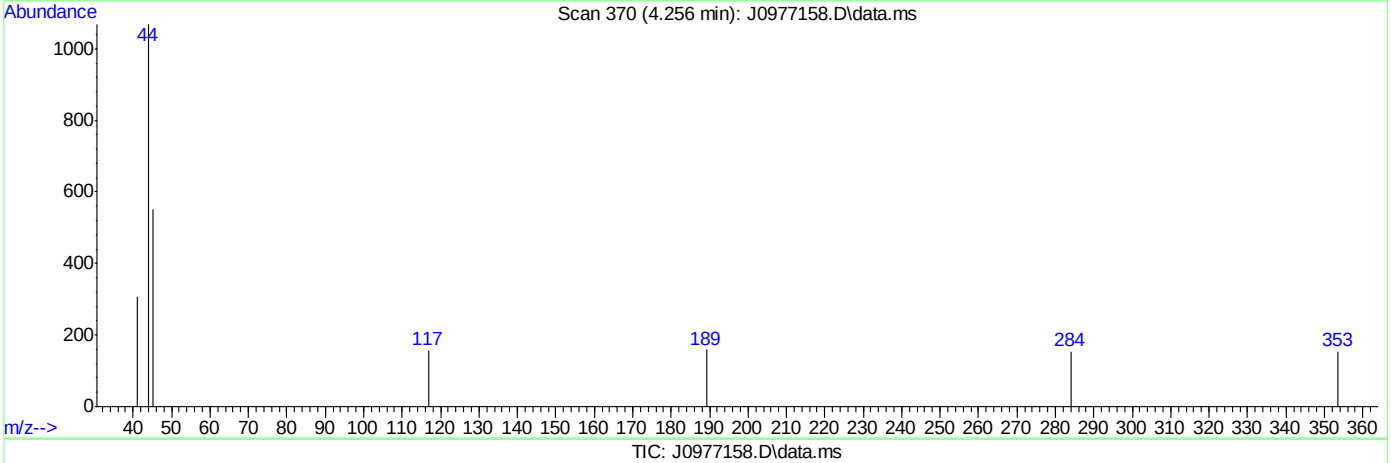




TIC: J0977158.D\data.ms

(107) Ethanol

4.256min (-0.029) 54.77ug/L m

response 1325

Ion	Exp%	Act%
45.10	100	100
46.10	24.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/15/16 16:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977159.D
Acq On : 14 Jun 2016 10:25 am
Operator : darshnap
Sample : ic5333-3 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 11:14:06 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	542842	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	417016	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	225727	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	33362	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	135105	50.28	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.56%			
46) 1,2-Dichloroethane-d4	7.464	65	171153	50.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.90%			
57) Toluene-d8	9.291	98	546206	49.01	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.02%			
79) 4-Bromofluorobenzene	12.041	95	211166	49.04	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.693	85	19248	5.84	ug/L	98
3) Chloromethane	2.881	50	40341	8.99	ug/L	95
4) Vinyl Chloride	3.022	62	36273	9.73	ug/L	98
5) 1,3-Butadiene	3.033	54	26201	12.19	ug/L #	88
6) Bromomethane	3.445	94	27859	10.67	ug/L	91
7) Chloroethane	3.603	64	22317	9.61	ug/L	89
8) Trichlorofluoromethane	3.838	101	43048m	9.05	ug/L	
9) Ethyl Ether	4.115	59	25705	9.92	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.350	67	35699	10.68	ug/L	88
11) 1,1-Dichloroethene	4.391	61	47088	9.97	ug/L	98
12) Freon 113	4.455	101	29594	10.54	ug/L	90
13) Carbon Disulfide	4.467	76	98706	9.77	ug/L	95
14) Iodomethane	4.573	142	48543	10.05	ug/L	96
15) Allyl chloride	4.914	41	40605	7.91	ug/L	95
16) Methylene Chloride	5.031	49	49277	9.77	ug/L	90
17) Acetone	5.049	58	11444	57.20	ug/L	100
18) Methyl acetate	5.190	74	15866	44.56	ug/L #	85
19) trans-1,2-Dichloroethene	5.219	61	42216	9.82	ug/L	91
20) Hexane	5.290	56	28998	10.16	ug/L #	84
21) Methyl Tert Butyl Ether	5.325	73	80172	9.81	ug/L	96
22) Acetonitrile	5.601	40	15335	96.78	ug/L #	81
23) Di-isopropyl ether	5.701	45	112827	9.77	ug/L	98
24) Chloroprene	5.860	53	39744	7.48	ug/L	90
25) 1,1-Dichloroethane	5.883	63	52656	9.57	ug/L	98
26) Acrylonitrile	5.913	53	45082m	47.59	ug/L	
27) ETBE	6.101	59	100584	9.13	ug/L	95
28) Vinyl acetate	6.101	43	294130	49.32	ug/L	99
29) cis-1,2-Dichloroethene	6.465	96	30770	9.39	ug/L	87
30) 2,2-Dichloropropane	6.588	77	38805	9.89	ug/L	90
31) Bromochloromethane	6.670	128	13827	9.57	ug/L	89
32) Cyclohexane	6.723	56	53574	8.59	ug/L	93
33) Chloroform	6.723	83	53010	9.41	ug/L	97
34) Ethyl acetate	6.800	43	113790	51.10	ug/L	96

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977159.D
Acq On : 14 Jun 2016 10:25 am
Operator : darshnap
Sample : ic5333-3 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 11:14:06 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.917	42	7095	10.95 ug/L #	61
37) Carbon Tetrachloride	6.917	117	39617	10.17 ug/L	96
38) 1,1,1-Trichloroethane	6.982	97	46263	9.87 ug/L	99
39) 2-Butanone	7.017	43	50511	49.79 ug/L	93
40) 1,1-Dichloropropene	7.099	75	36817	8.86 ug/L	96
41) tert-Butyl Formate	7.176	59	204912	100.96 ug/L	95
42) Propionitrile	7.323	54	30396	94.28 ug/L	89
43) Methacrylonitrile	7.346	41	171991	116.70 ug/L	95
44) Benzene	7.346	78	120006	10.06 ug/L	99
45) TAME	7.423	73	77431	8.70 ug/L	98
47) 1,2-Dichloroethane	7.534	62	42843	10.60 ug/L	97
48) Trichloroethene	7.922	95	28150	9.50 ug/L	91
49) Methylcyclohexane	7.945	83	50039	8.92 ug/L	96
50) Dibromomethane	8.351	93	16117	9.97 ug/L	91
51) 1,2-Dichloropropane	8.439	63	30237	9.29 ug/L	83
52) Bromodichloromethane	8.480	83	36812	9.08 ug/L	100
53) Methyl methacrylate	8.586	41	19097	9.09 ug/L	89
54) 2-Chloroethyl vinyl ether	8.997	63	83762	49.19 ug/L	93
55) cis-1,3-Dichloropropene	9.097	75	41140	8.92 ug/L	92
58) Toluene	9.344	91	124408	9.58 ug/L	98
59) 2-Nitropropane	9.550	41	27609	43.02 ug/L	95
60) 4-Methyl-2-pentanone	9.661	43	127617	49.89 ug/L	94
61) trans-1,3-Dichloropropene	9.726	75	34793	8.33 ug/L	90
62) Tetrachloroethene	9.749	166	29846	10.23 ug/L	91
63) Ethyl methacrylate	9.832	69	26340	8.33 ug/L	96
64) 1,1,2-Trichloroethane	9.890	83	21565	9.98 ug/L	94
65) Dibromochloromethane	10.090	129	24948	8.82 ug/L	96
66) 1,3-Dichloropropane	10.172	76	40342	8.71 ug/L	93
67) 1,2-Dibromoethane	10.349	107	23051	9.08 ug/L	76
68) 2-hexanone	10.478	43	85912	49.53 ug/L	97
69) 1-Chlorohexane	10.783	91	35698	8.49 ug/L	96
70) Ethylbenzene	10.848	91	147113	9.56 ug/L	97
71) Chlorobenzene	10.854	112	81171	9.98 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.901	131	26380	8.68 ug/L	92
73) m,p-Xylene	10.989	91	221051	18.40 ug/L	98
74) o-Xylene	11.424	91	110239	8.81 ug/L	100
75) Styrene	11.477	104	79760	8.50 ug/L	95
76) Bromoform	11.535	173	13314	8.13 ug/L	96
77) Isopropylbenzene	11.729	105	125312	9.20 ug/L	96
80) cis-1,4-Dichloro-2-butene	12.076	53	2887	3.61 ug/L	90
81) n-Propylbenzene	12.147	91	159777	9.31 ug/L	99
82) Bromobenzene	12.170	156	36211	10.46 ug/L	94
83) 1,1,2,2-Tetrachloroethane	12.205	83	29118	8.95 ug/L	97
84) 1,3,5-Trimethylbenzene	12.329	105	114810	8.96 ug/L	95
85) 2-Chlorotoluene	12.340	91	112680	9.30 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.387	53	3824	4.89 ug/L #	51
87) 1,2,3-Trichloropropane	12.370	110	7511	9.75 ug/L	91
88) Cyclohexanone	12.434	55	3984	36.23 ug/L	91
89) 4-Chlorotoluene	12.505	91	98734	9.13 ug/L	96
90) a-Methyl Styrene	12.593	118	51596	8.11 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977159.D
Acq On : 14 Jun 2016 10:25 am
Operator : darshnap
Sample : ic5333-3 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 11:14:06 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

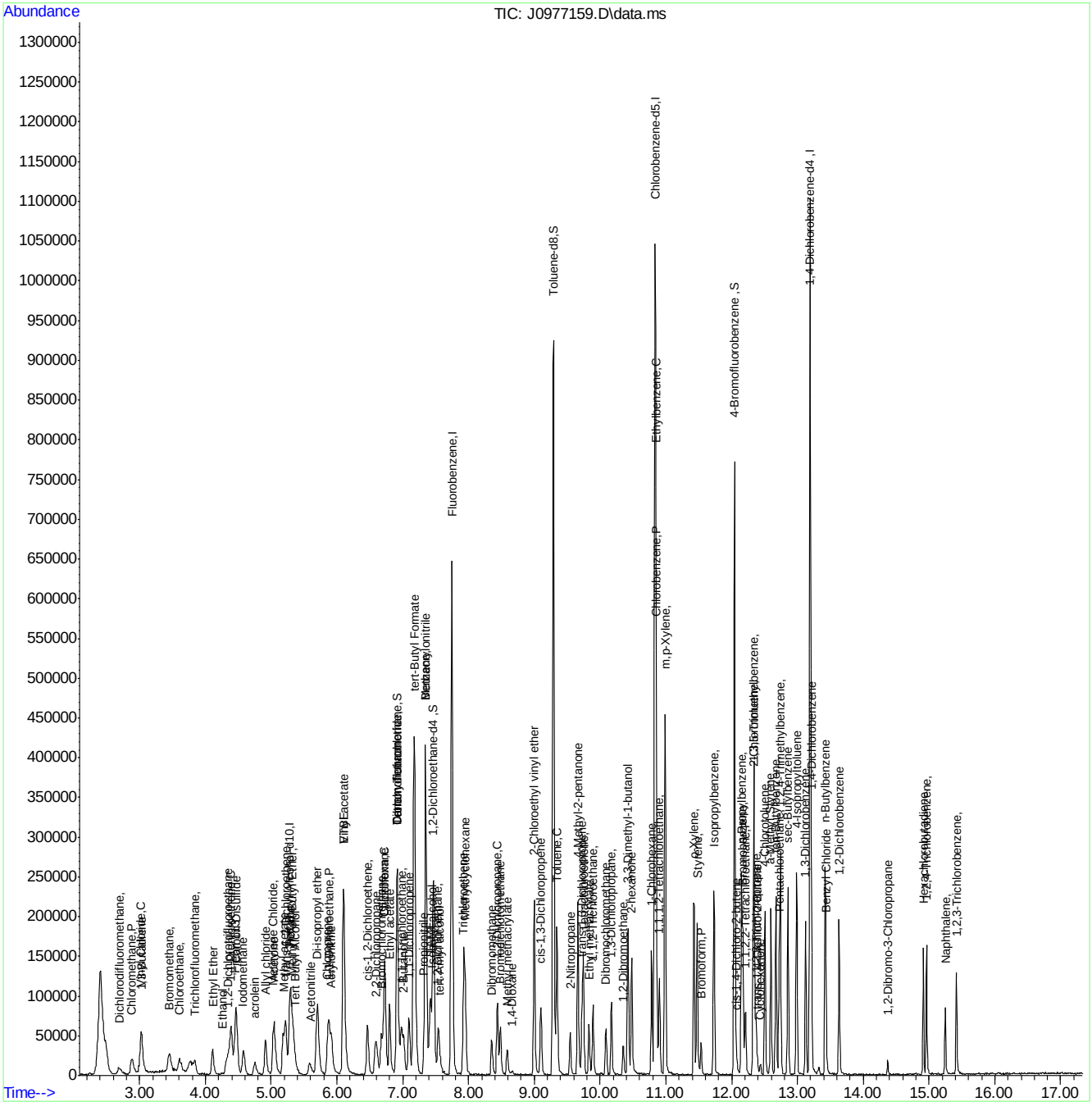
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.675	91	64264	8.77	ug/L		96
92)	1,2,4-Trimethylbenzene	12.740	105	116357	9.30	ug/L		94
93)	Pentachloroethane	12.722	167	18002	8.32	ug/L		94
94)	sec-Butylbenzene	12.857	105	138519	9.25	ug/L		99
95)	4-Isopropyltoluene	12.987	119	115195	9.35	ug/L		97
96)	1,3-Dichlorobenzene	13.122	146	67762	9.95	ug/L		94
97)	1,4-Dichlorobenzene	13.210	146	70947	10.08	ug/L		98
98)	n-Butylbenzene	13.422	92	63099	8.67	ug/L		98
99)	Benzyl Chloride	13.433	126	7369	7.52	ug/L	#	30
100)	1,2-Dichlorobenzene	13.633	146	61538	8.89	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.367	75	3663	7.71	ug/L		93
102)	Hexachlorobutadiene	14.914	225	19989	9.25	ug/L		97
103)	1,2,4-Trichlorobenzene	14.961	180	36666	8.75	ug/L		96
104)	Naphthalene	15.249	128	50127	7.46	ug/L		95
105)	1,2,3-Trichlorobenzene	15.419	180	30276	7.93	ug/L		94
107)	Ethanol	4.256	45	3572m	151.75	ug/L		
108)	acrolein	4.743	56	20496	60.94	ug/L		99
109)	Tert Butyl Alcohol	5.360	59	18465	99.94	ug/L		83
110)	tert Amyl alcohol	7.558	59	14259	103.08	ug/L		88
111)	Isobutyl alcohol	7.440	42	14670	233.07	ug/L	#	76
112)	1,4-Dioxane	8.662	88	2583	162.09	ug/L		79
113)	3,3-Dimethyl-1-butanol	10.425	57	74347	488.25	ug/L		95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977159.D
Acq On : 14 Jun 2016 10:25 am
Operator : darshnap
Sample : ic5333-3 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 11:14:06 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration



SGS ACCUTEST FA34748

Manual Integration Approval Summary

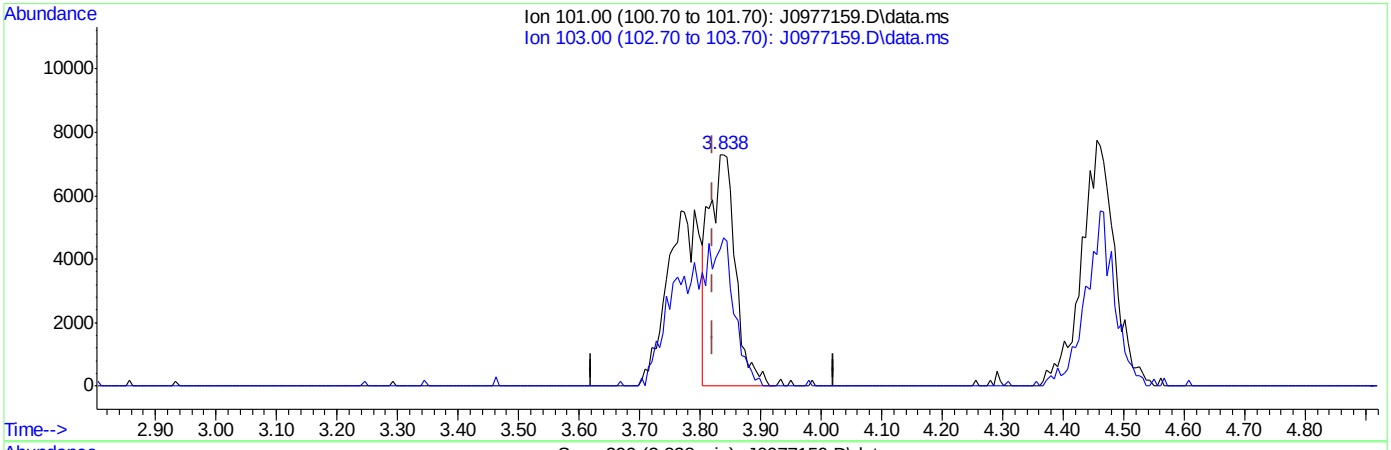
Sample Number:	VJ5333-IC5333	**Method:**	SW846 8260B
Lab FileID:	J0977159.D	**Analyst approved:**	06/15/16 07:59 Darshna Patel
Injection Time:	06/14/16 10:25	**Supervisor approved:**	06/15/16 16:05 Juan Garcia

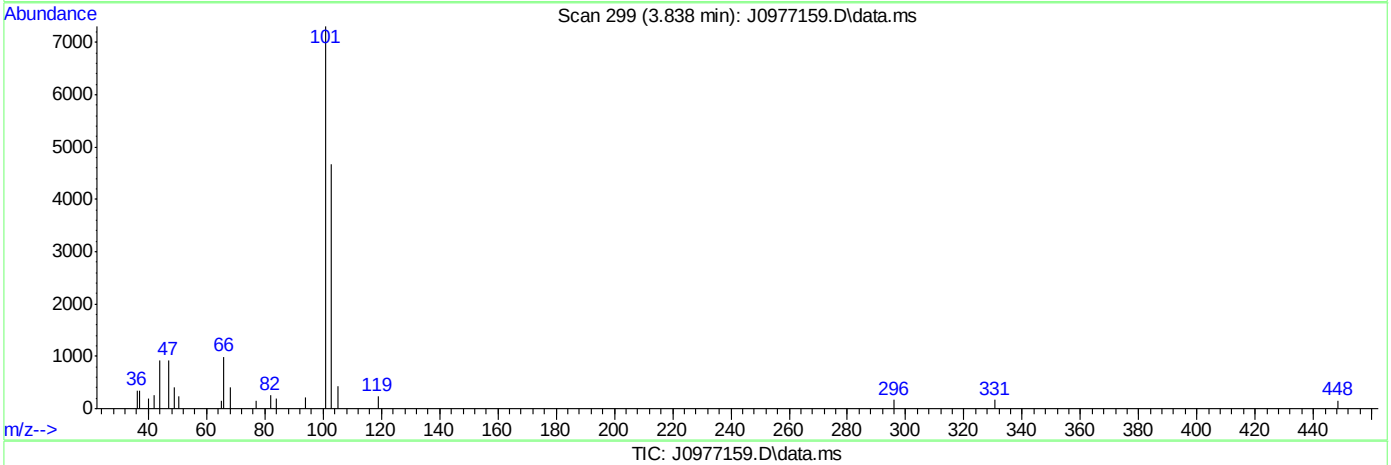
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Acrylonitrile	107-13-1		5.91	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977159.D
Acq On : 14 Jun 2016 10:25 am
Operator : darshnap
Sample : ic5333-3 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 11:05:36 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.838min (+0.017) 4.66ug/L

response 22176

Ion	Exp%	Act%
101.00	100	100
103.00	69.60	63.84
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977159.D
Acq On : 14 Jun 2016 10:25 am
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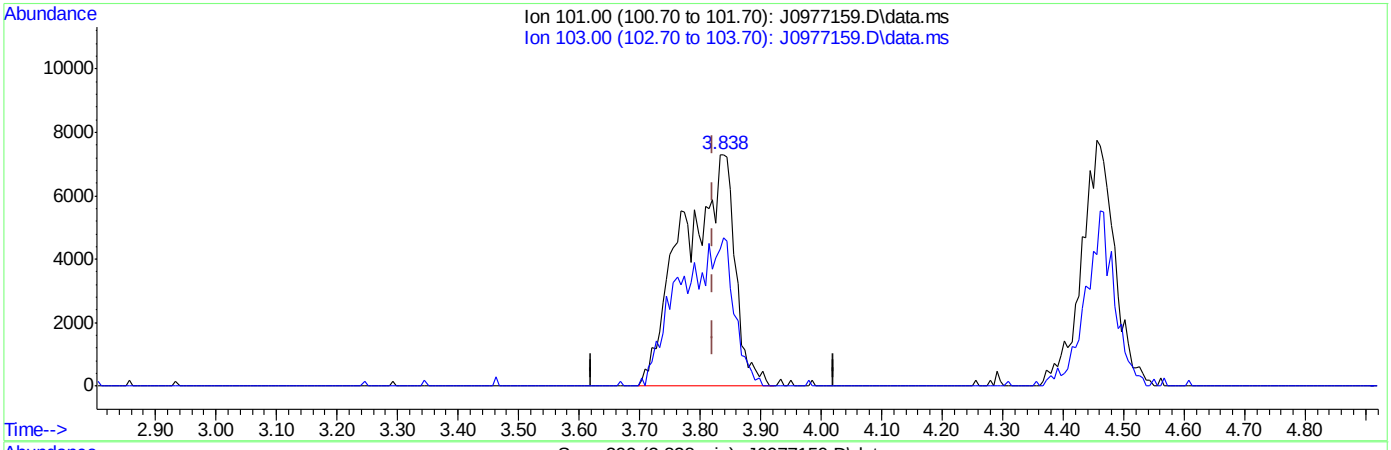

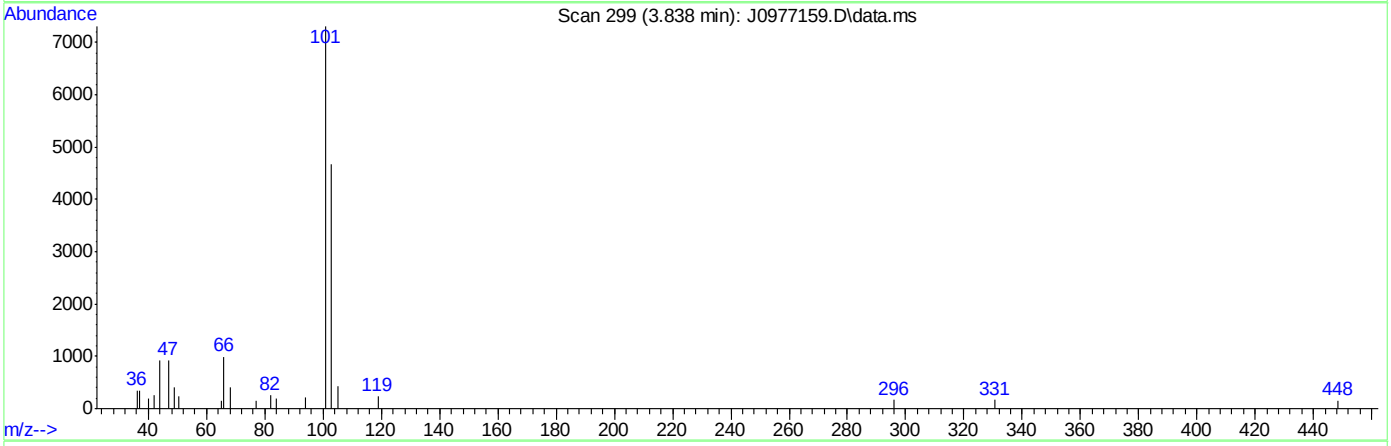

(8) Trichlorofluoromethane ( )

3.838min (+0.017) 9.05ug/L m

response 43048

Ion	Exp%	Act%
101.00	100	100
103.00	69.60	63.84
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977159.D
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Operator : darshnap
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Misc : MS34133,VJ5333,,,,,
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Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
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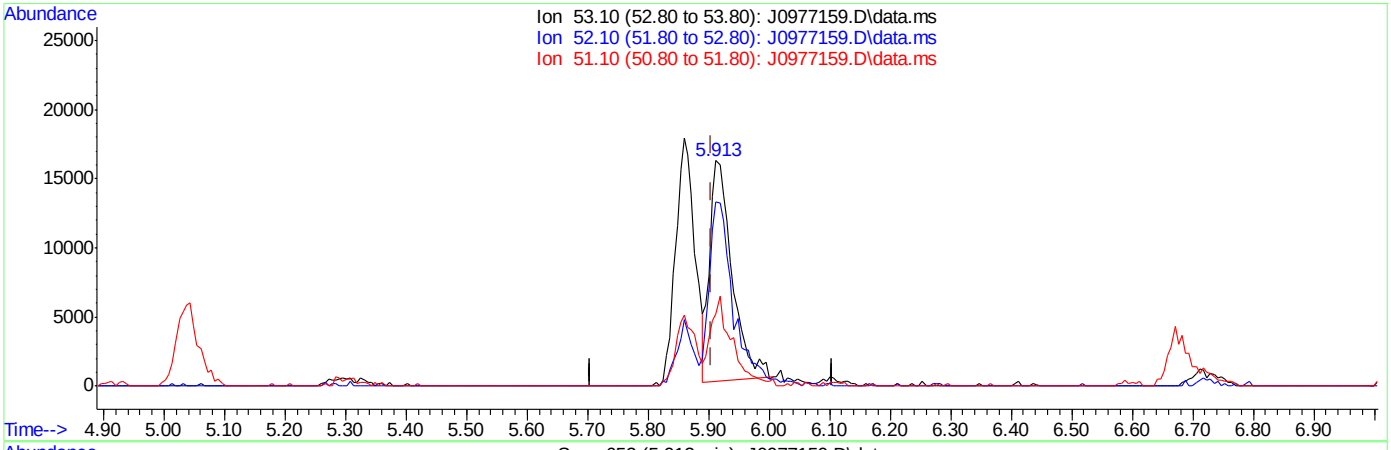
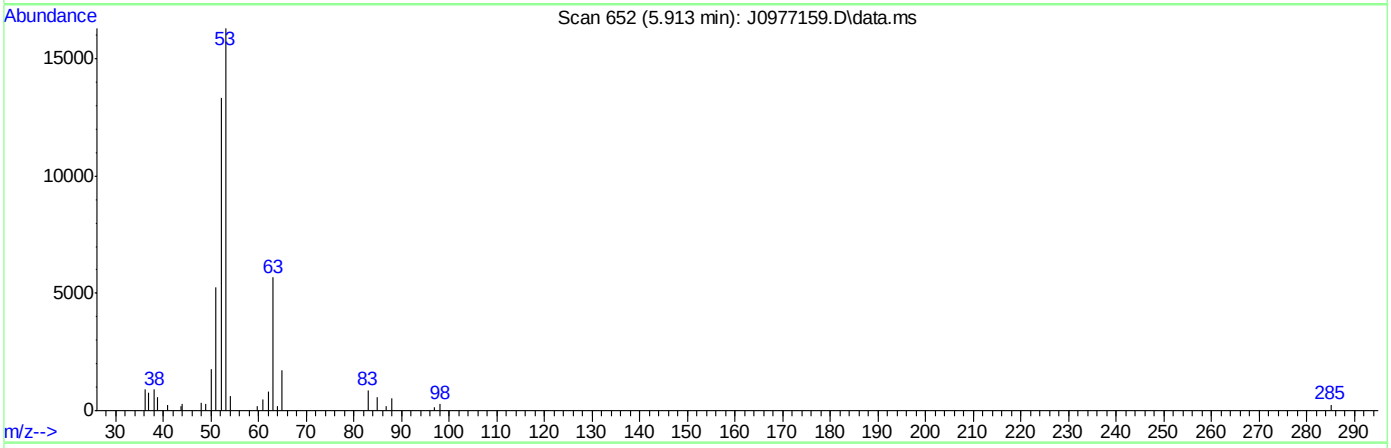




TIC: J0977159.D\data.ms

(26) Acrylonitrile

5.913min (+0.007) 43.39ug/L

response 41107

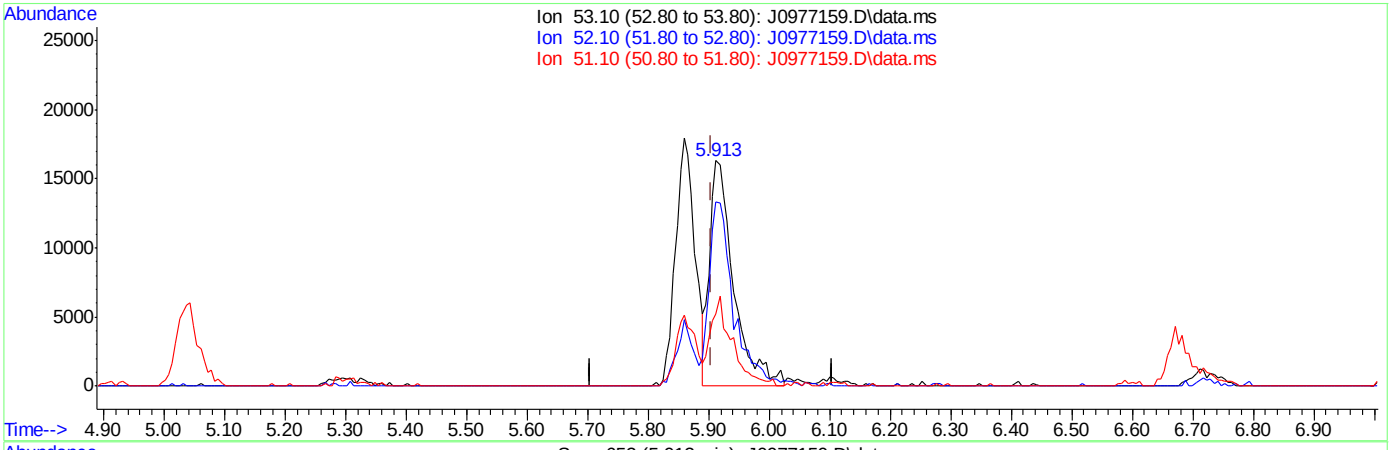
Ion	Exp%	Act%
53.10	100	100
52.10	77.30	81.89
51.10	35.00	30.42
0.00	0.00	0.00

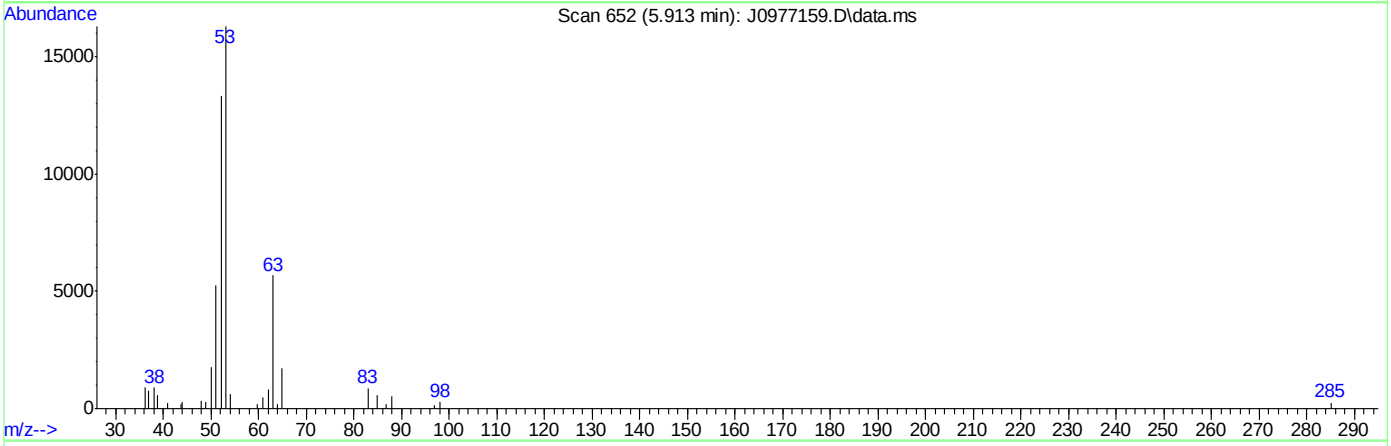
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977159.D
Acq On : 14 Jun 2016 10:25 am
Operator : darshnap
Sample : ic5333-3 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 11:05:36 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977159.D\data.ms

(26) Acrylonitrile

5.913min (+0.007) 47.59ug/L m

response 45082

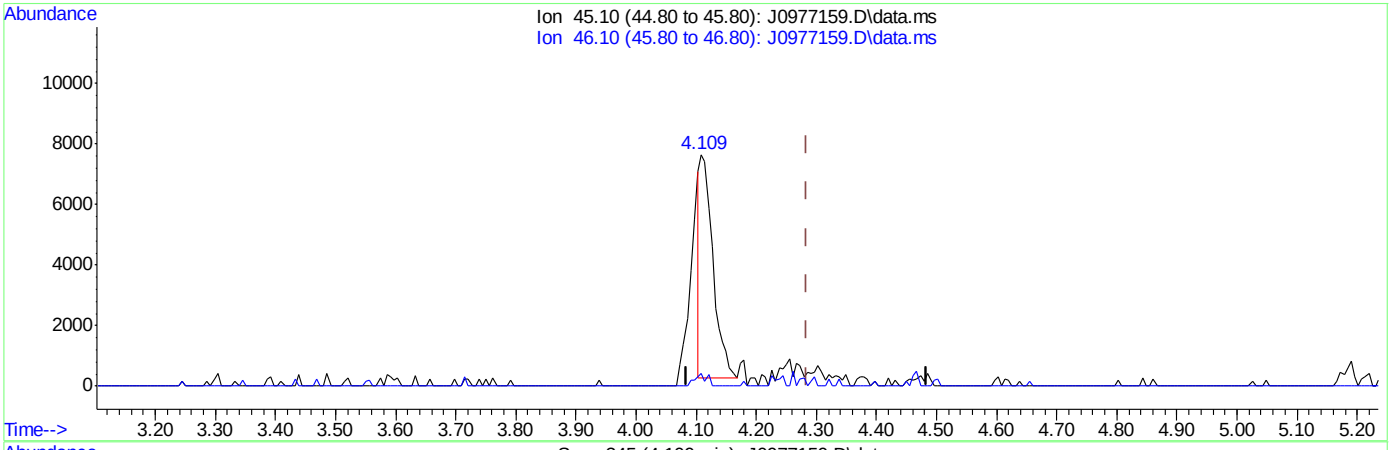
Ion	Exp%	Act%
53.10	100	100
52.10	77.30	81.75
51.10	35.00	32.26
0.00	0.00	0.00

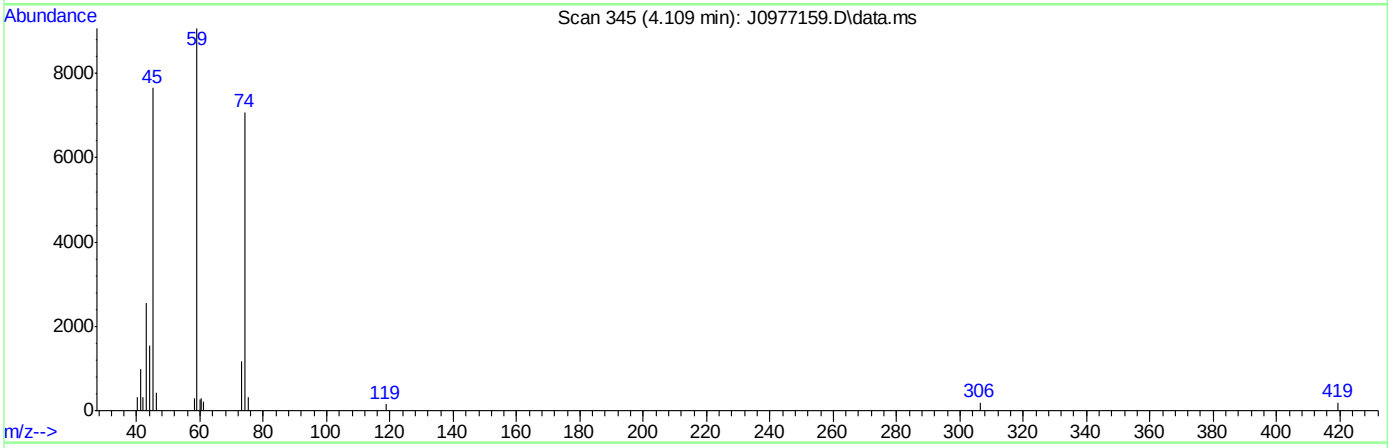
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977159.D
Acq On : 14 Jun 2016 10:25 am
Operator : darshnap
Sample : ic5333-3 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 11:05:36 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977159.D\data.ms

(107) Ethanol

4.109min (-0.176) 476.42ug/L

response 10924

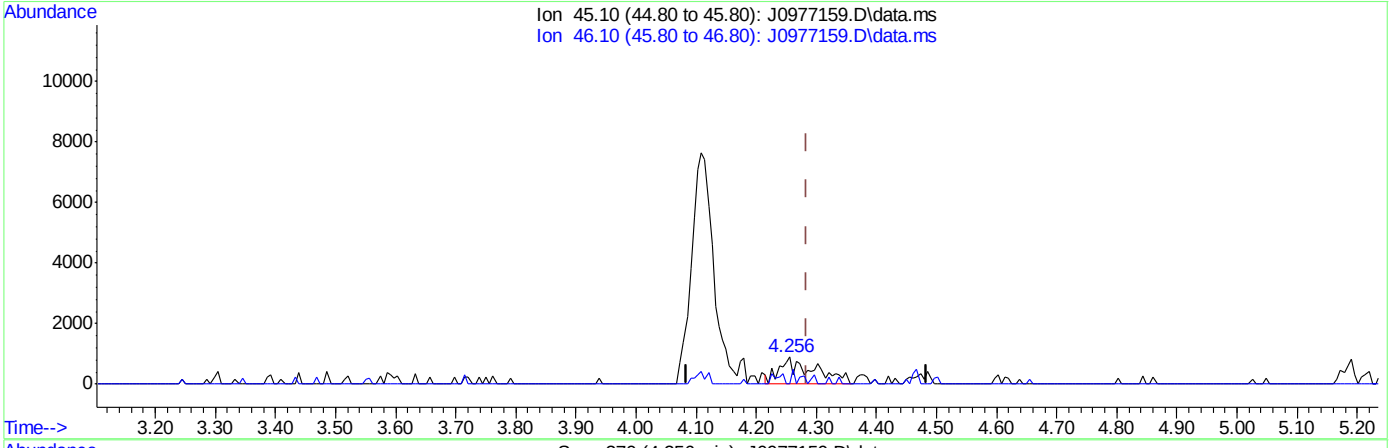
Ion	Exp%	Act%
45.10	100	100
46.10	24.70	5.73
0.00	0.00	0.00
0.00	0.00	0.00

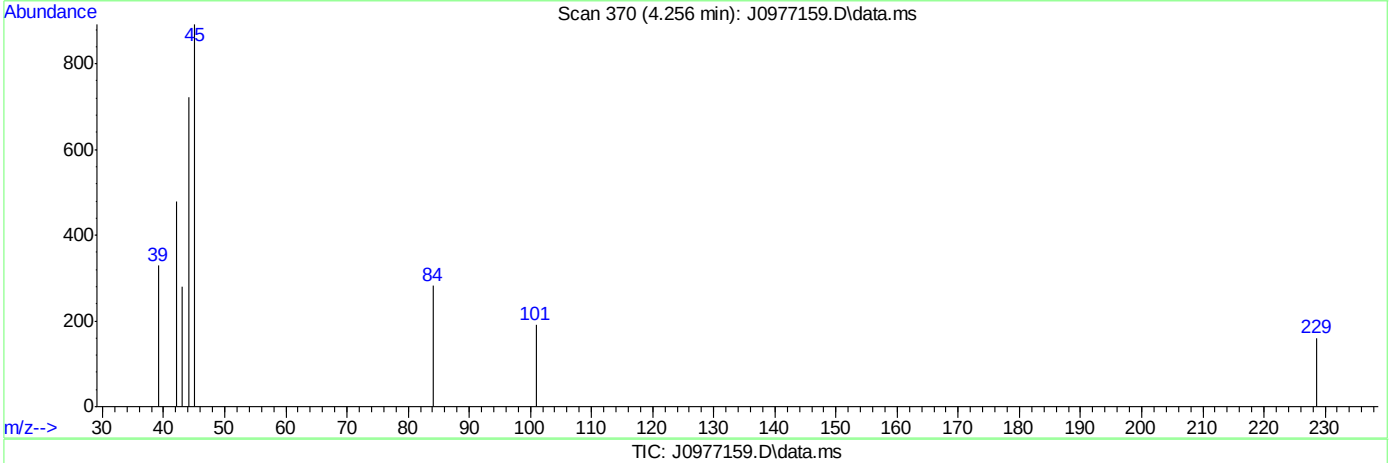
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977159.D
Acq On : 14 Jun 2016 10:25 am
Operator : darshnap
Sample : ic5333-3 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 14 11:05:36 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977159.D\data.ms

(107) Ethanol

4.256min (-0.029) 151.75ug/L m

response 3572

Ion	Exp%	Act%
45.10	100	100
46.10	24.70	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/15/16 16:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977160.D
Acq On : 14 Jun 2016 10:49 am
Operator : darshnap
Sample : ic5333-4 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 11:15:28 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.745	96	553447	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	416409	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	236907	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	37619	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	136830	49.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.90%			
46) 1,2-Dichloroethane-d4	7.469	65	170881	49.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.80%			
57) Toluene-d8	9.291	98	555866	49.95	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.90%			
79) 4-Bromofluorobenzene	12.041	95	216324	47.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.692	85	58520	17.43	ug/L	96
3) Chloromethane	2.892	50	101932	22.13	ug/L	98
4) Vinyl Chloride	3.039	62	94243	24.52	ug/L	98
5) 1,3-Butadiene	3.033	54	68565	31.30	ug/L	92
6) Bromomethane	3.462	94	65509	25.56	ug/L	98
7) Chloroethane	3.609	64	53805	25.12	ug/L	93
8) Trichlorofluoromethane	3.838	101	117385m	24.19	ug/L	
9) Ethyl Ether	4.109	59	65936	24.91	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.355	67	86689	25.05	ug/L	89
11) 1,1-Dichloroethene	4.391	61	120826	24.88	ug/L	97
12) Freon 113	4.461	101	71917	24.66	ug/L	90
13) Carbon Disulfide	4.473	76	251198	24.16	ug/L	98
14) Iodomethane	4.579	142	124913	25.12	ug/L	98
15) Allyl chloride	4.913	41	123918	23.67	ug/L	96
16) Methylene Chloride	5.037	49	121930	24.09	ug/L	94
17) Acetone	5.054	58	26605	129.29	ug/L	94
18) Methyl acetate	5.178	74	45283	124.73	ug/L	99
19) trans-1,2-Dichloroethene	5.225	61	108745	24.67	ug/L	98
20) Hexane	5.290	56	73619	24.99	ug/L	93
21) Methyl Tert Butyl Ether	5.325	73	203717	24.26	ug/L	95
22) Acetonitrile	5.577	40	37971	233.68	ug/L #	85
23) Di-isopropyl ether	5.707	45	290023	24.60	ug/L	96
24) Chloroprene	5.865	53	122903	22.70	ug/L	96
25) 1,1-Dichloroethane	5.889	63	138503	24.56	ug/L	94
26) Acrylonitrile	5.912	53	111338	115.28	ug/L	99
27) ETBE	6.100	59	263307	23.44	ug/L	96
28) Vinyl acetate	6.100	43	756359	124.39	ug/L	99
29) cis-1,2-Dichloroethene	6.465	96	80660	23.95	ug/L	96
30) 2,2-Dichloropropane	6.594	77	100601	24.72	ug/L	96
31) Bromochloromethane	6.676	128	36520	24.54	ug/L	92
32) Cyclohexane	6.723	56	143742	22.61	ug/L	92
33) Chloroform	6.729	83	142092	24.61	ug/L	98
34) Ethyl acetate	6.800	43	290873	128.12	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977160.D
Acq On : 14 Jun 2016 10:49 am
Operator : darshnap
Sample : ic5333-4 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 11:15:28 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	15608	23.44 ug/L	94
37) Carbon Tetrachloride	6.923	117	102087m	25.26 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	120430	24.89 ug/L	93
39) 2-Butanone	7.017	43	124823	120.69 ug/L	99
40) 1,1-Dichloropropene	7.093	75	97970	23.12 ug/L	96
41) tert-Butyl Formate	7.176	59	568544	274.74 ug/L	97
42) Propionitrile	7.322	54	76953	234.10 ug/L	91
43) Methacrylonitrile	7.346	41	389995	261.09 ug/L	95
44) Benzene	7.346	78	303716	24.78 ug/L	98
45) TAME	7.422	73	205257	22.63 ug/L	96
47) 1,2-Dichloroethane	7.540	62	104358	25.31 ug/L	98
48) Trichloroethene	7.922	95	75272	24.69 ug/L	94
49) Methylcyclohexane	7.945	83	135312	23.66 ug/L	98
50) Dibromomethane	8.351	93	40816	24.54 ug/L	97
51) 1,2-Dichloropropane	8.439	63	80487	24.20 ug/L	93
52) Bromodichloromethane	8.486	83	98069	23.70 ug/L	98
53) Methyl methacrylate	8.580	41	51428	23.70 ug/L	93
54) 2-Chloroethyl vinyl ether	8.997	63	208312	119.99 ug/L	97
55) cis-1,3-Dichloropropene	9.097	75	113289	23.93 ug/L	94
58) Toluene	9.344	91	318272	24.50 ug/L	96
59) 2-Nitropropane	9.543	41	77822	121.43 ug/L	97
60) 4-Methyl-2-pentanone	9.661	43	313166	122.60 ug/L	98
61) trans-1,3-Dichloropropene	9.726	75	93160	22.34 ug/L	94
62) Tetrachloroethene	9.743	166	77738	26.06 ug/L	94
63) Ethyl methacrylate	9.825	69	78948	24.26 ug/L	95
64) 1,1,2-Trichloroethane	9.890	83	53200	24.59 ug/L	95
65) Dibromochloromethane	10.090	129	63783	22.59 ug/L	95
66) 1,3-Dichloropropane	10.172	76	105420	22.79 ug/L	96
67) 1,2-Dibromoethane	10.348	107	57624	22.73 ug/L	99
68) 2-hexanone	10.478	43	213554	123.29 ug/L	96
69) 1-Chlorohexane	10.783	91	96506	22.99 ug/L	95
70) Ethylbenzene	10.848	91	374140	24.40 ug/L	100
71) Chlorobenzene	10.854	112	202994	24.78 ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.901	131	69761	22.99 ug/L	94
73) m,p-Xylene	10.983	91	563304	47.43 ug/L	99
74) o-Xylene	11.424	91	287212	22.99 ug/L	99
75) Styrene	11.471	104	210912	22.50 ug/L	98
76) Bromoform	11.535	173	36596	22.02 ug/L	94
77) Isopropylbenzene	11.729	105	330491	24.00 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.076	53	12401	14.63 ug/L	92
81) n-Propylbenzene	12.146	91	418022	23.39 ug/L	98
82) Bromobenzene	12.170	156	89919	24.56 ug/L	93
83) 1,1,2,2-Tetrachloroethane	12.205	83	75097	21.99 ug/L	98
84) 1,3,5-Trimethylbenzene	12.328	105	306113	22.76 ug/L	96
85) 2-Chlorotoluene	12.340	91	298095	23.67 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.387	53	12678	15.42 ug/L #	83
87) 1,2,3-Trichloropropane	12.370	110	18892	23.45 ug/L	95
88) Cyclohexanone	12.434	55	11384	98.63 ug/L	97
89) 4-Chlorotoluene	12.505	91	264755	23.35 ug/L	98
90) a-Methyl Styrene	12.593	118	160134	23.97 ug/L	97

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977160.D
Acq On : 14 Jun 2016 10:49 am
Operator : darshnap
Sample : ic5333-4 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 11:15:28 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.669	91	175525	22.82	ug/L	97
92)	1,2,4-Trimethylbenzene	12.740	105	307707	23.54	ug/L	99
93)	Pentachloroethane	12.722	167	52389	23.08	ug/L	95
94)	sec-Butylbenzene	12.857	105	370768	23.60	ug/L	98
95)	4-Isopropyltoluene	12.986	119	303253	23.37	ug/L	100
96)	1,3-Dichlorobenzene	13.122	146	174730	24.29	ug/L	98
97)	1,4-Dichlorobenzene	13.204	146	176102	23.71	ug/L	94
98)	n-Butylbenzene	13.421	92	174598	22.86	ug/L	95
99)	Benzyl Chloride	13.433	126	23984	22.63	ug/L	96
100)	1,2-Dichlorobenzene	13.633	146	162256	22.35	ug/L	98
101)	1,2-Dibromo-3-Chloropr...	14.373	75	9448	18.96	ug/L	92
102)	Hexachlorobutadiene	14.914	225	56749	24.47	ug/L	94
103)	1,2,4-Trichlorobenzene	14.961	180	105234	23.57	ug/L	99
104)	Naphthalene	15.243	128	144209	20.44	ug/L	96
105)	1,2,3-Trichlorobenzene	15.413	180	84385	21.05	ug/L	92
107)	Ethanol	4.255	45	11222m	432.48	ug/L	
108)	acrolein	4.749	56	53749	144.24	ug/L	86
109)	Tert Butyl Alcohol	5.383	59	47663	228.77	ug/L	84
110)	tert Amyl alcohol	7.563	59	39074	250.50	ug/L	90
111)	Isobutyl alcohol	7.446	42	40073	563.93	ug/L #	73
112)	1,4-Dioxane	8.656	88	6929	381.18	ug/L	75
113)	3,3-Dimethyl-1-butanol	10.425	57	221227	1267.50	ug/L	98

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

7.6.4

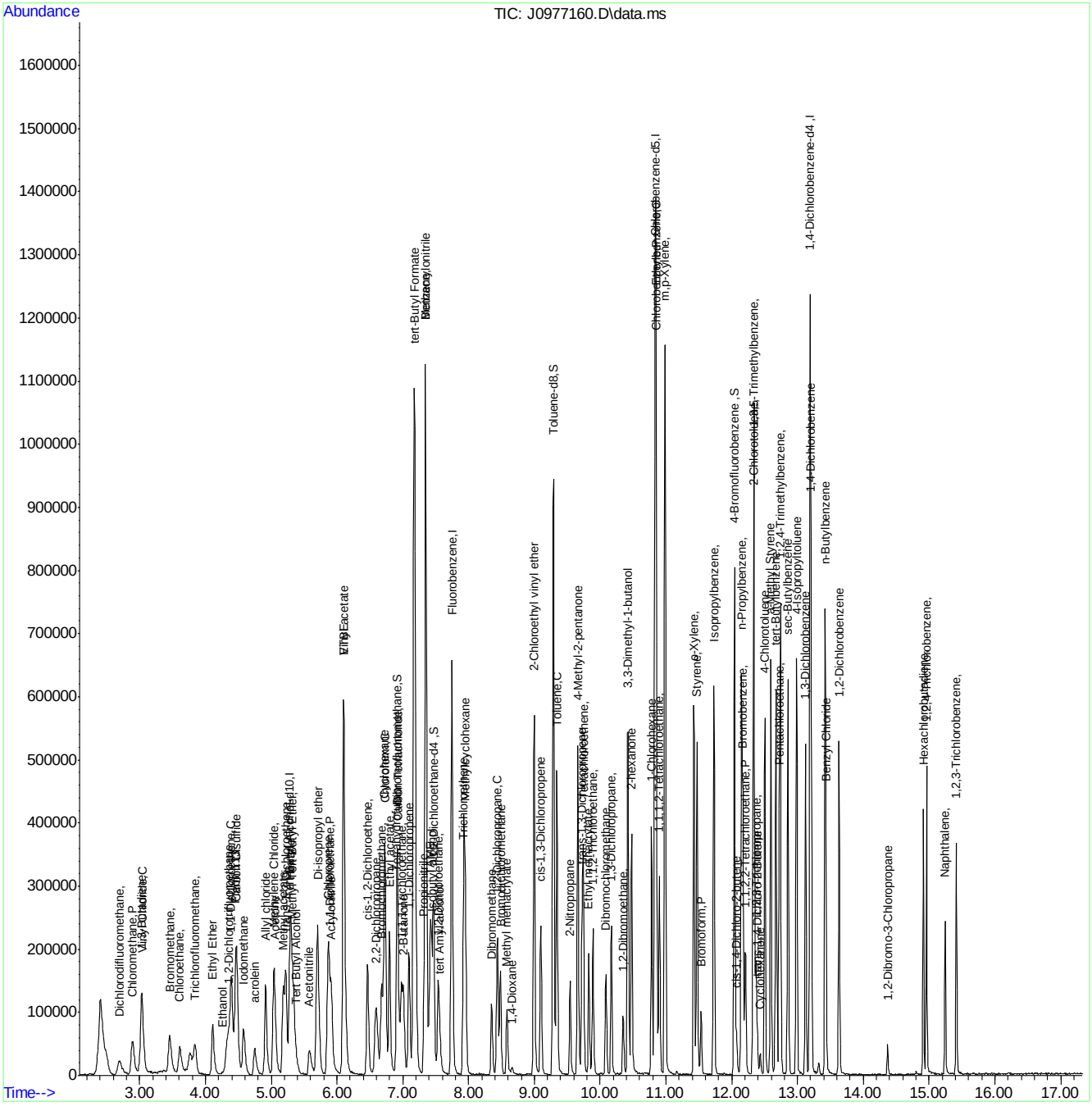
7

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977160.D
Acq On : 14 Jun 2016 10:49 am
Operator : darshnap
Sample : ic5333-4 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 11:15:28 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration



SGS ACCUTEST FA34748

Manual Integration Approval Summary

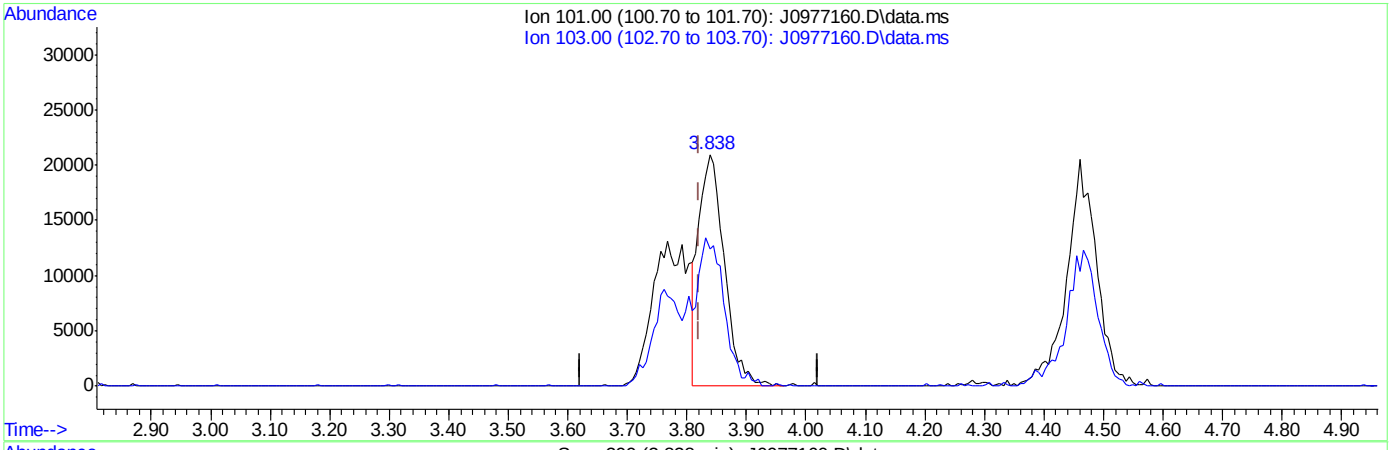
Sample Number:	VJ5333-IC5333	**Method:**	SW846 8260B
Lab FileID:	J0977160.D	**Analyst approved:**	06/15/16 07:59 Darshna Patel
Injection Time:	06/14/16 10:49	**Supervisor approved:**	06/15/16 16:05 Juan Garcia

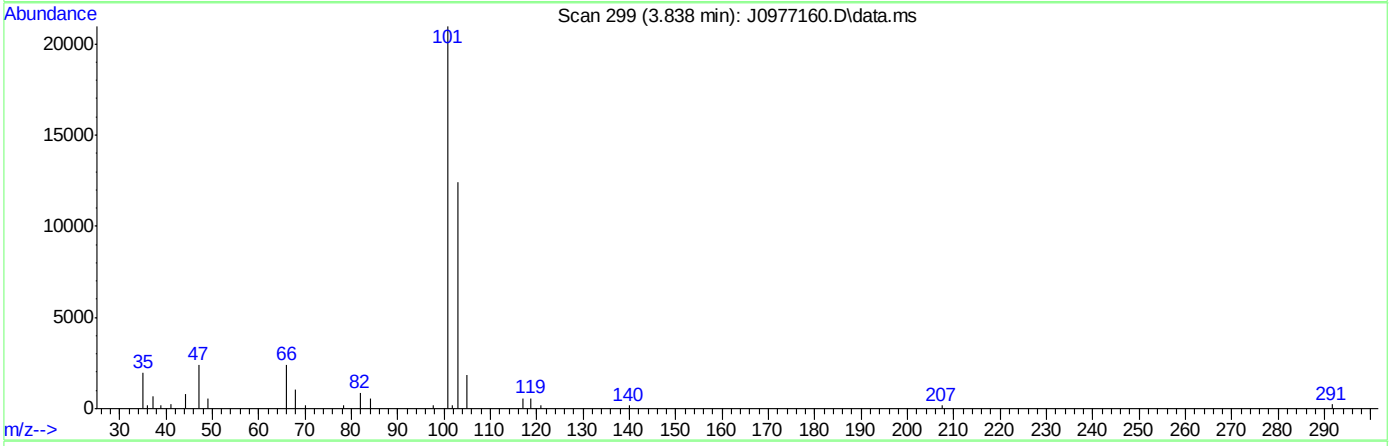
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977160.D
Acq On : 14 Jun 2016 10:49 am
Operator : darshnap
Sample : ic5333-4 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 11:15:00 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977160.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.017) 12.89ug/L

response 62551

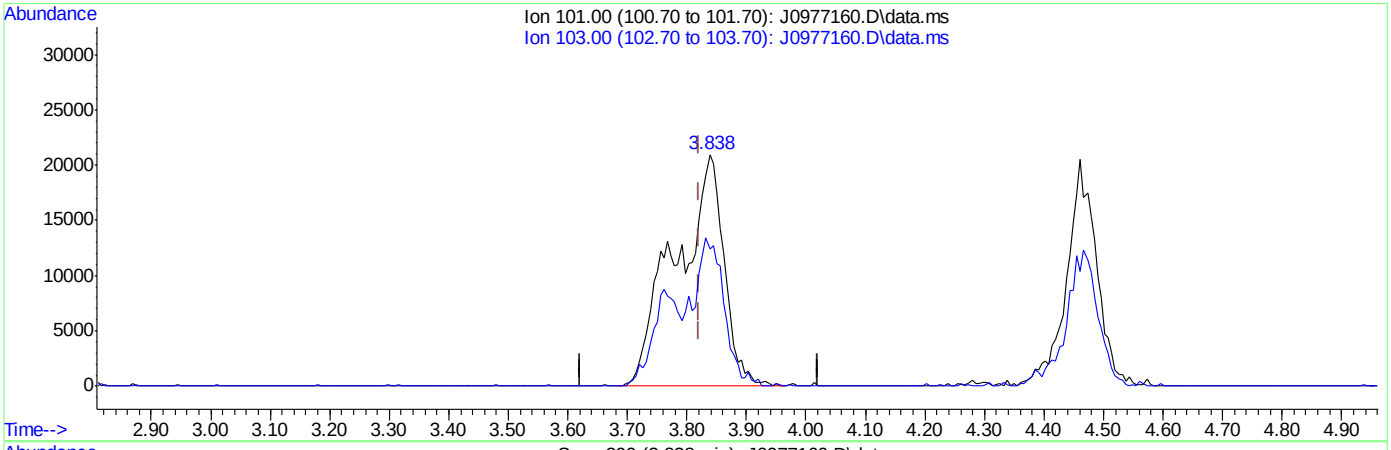
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	59.11
0.00	0.00	0.00
0.00	0.00	0.00

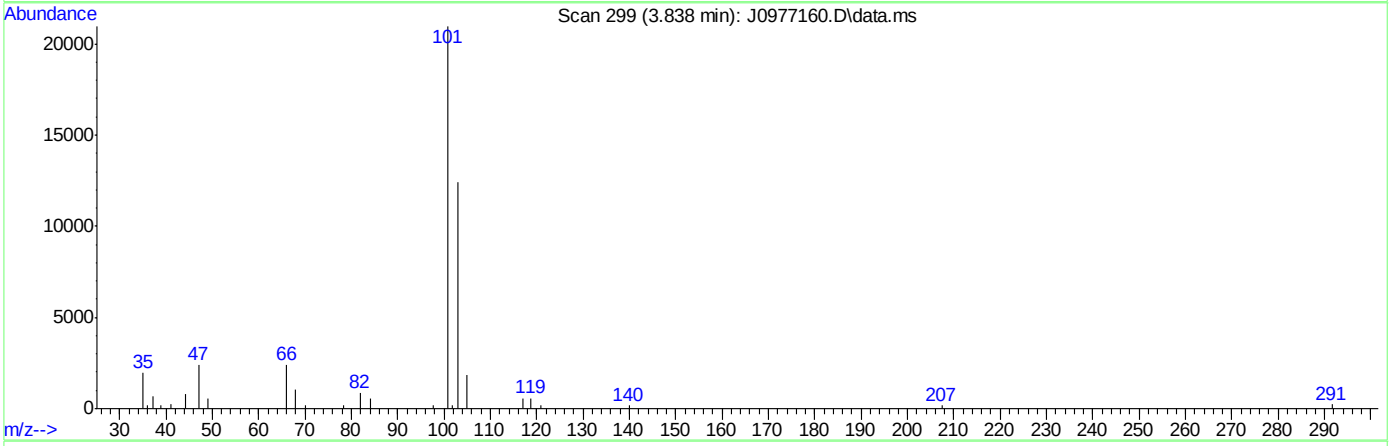
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977160.D
Acq On : 14 Jun 2016 10:49 am
Operator : darshnap
Sample : ic5333-4 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 11:15:00 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977160.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.017) 24.19ug/L m

response 117385

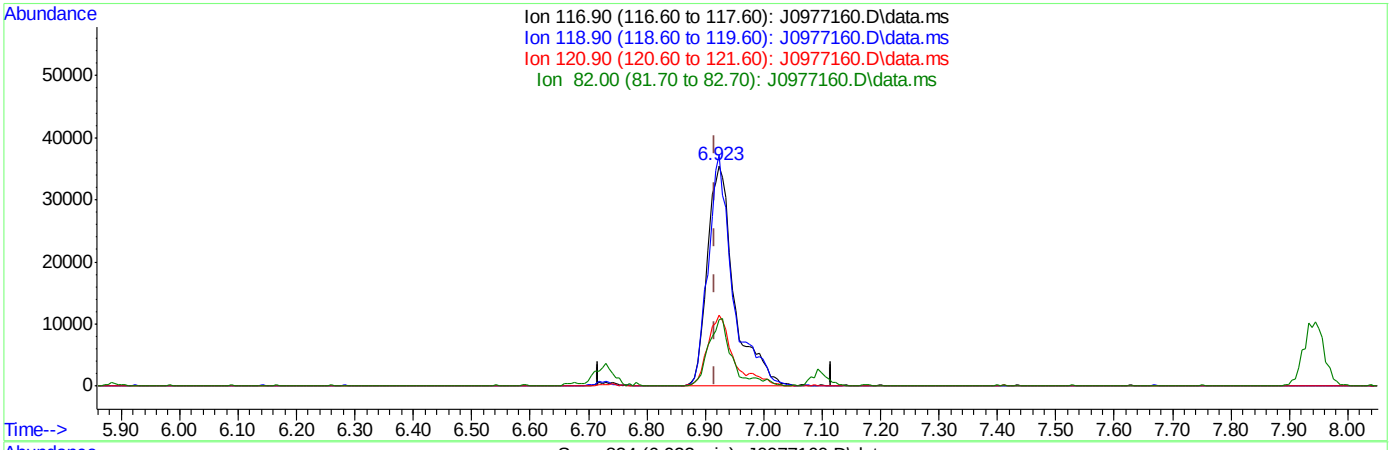
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	59.11
0.00	0.00	0.00
0.00	0.00	0.00

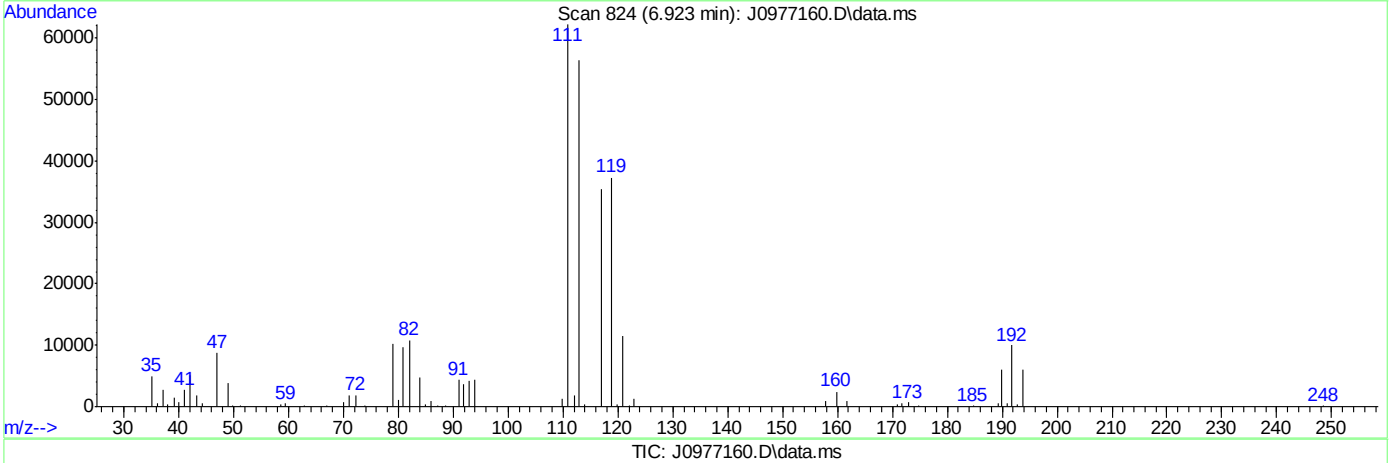
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977160.D
Acq On : 14 Jun 2016 10:49 am
Operator : darshnap
Sample : ic5333-4 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 11:15:00 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977160.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 27.74ug/L

response 112449

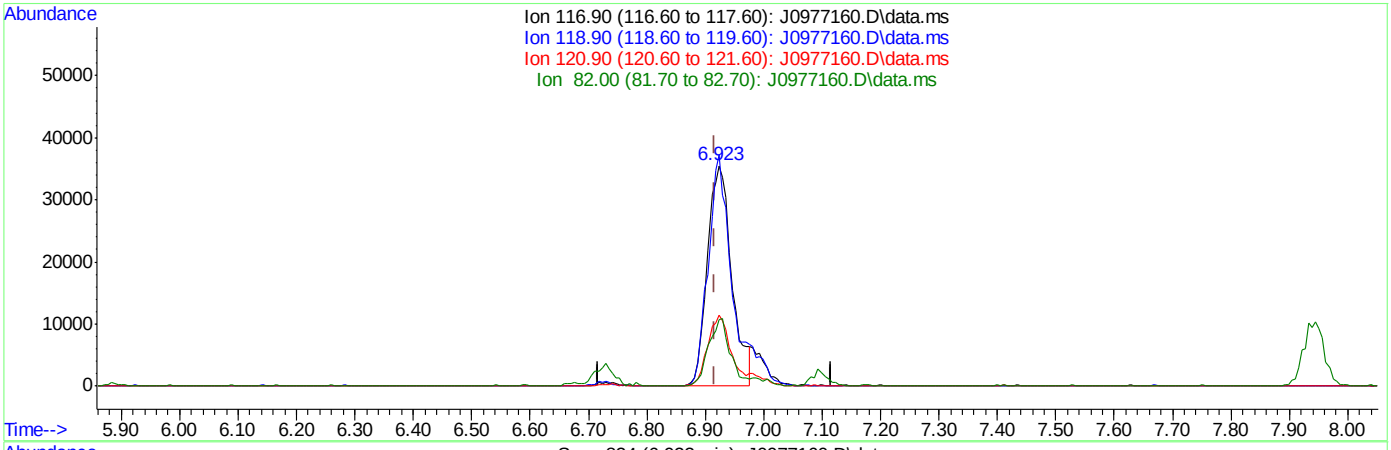
Ion	Exp%	Act%
116.90	100	100
118.90	89.90	105.07
120.90	31.00	32.17
82.00	24.80	30.38

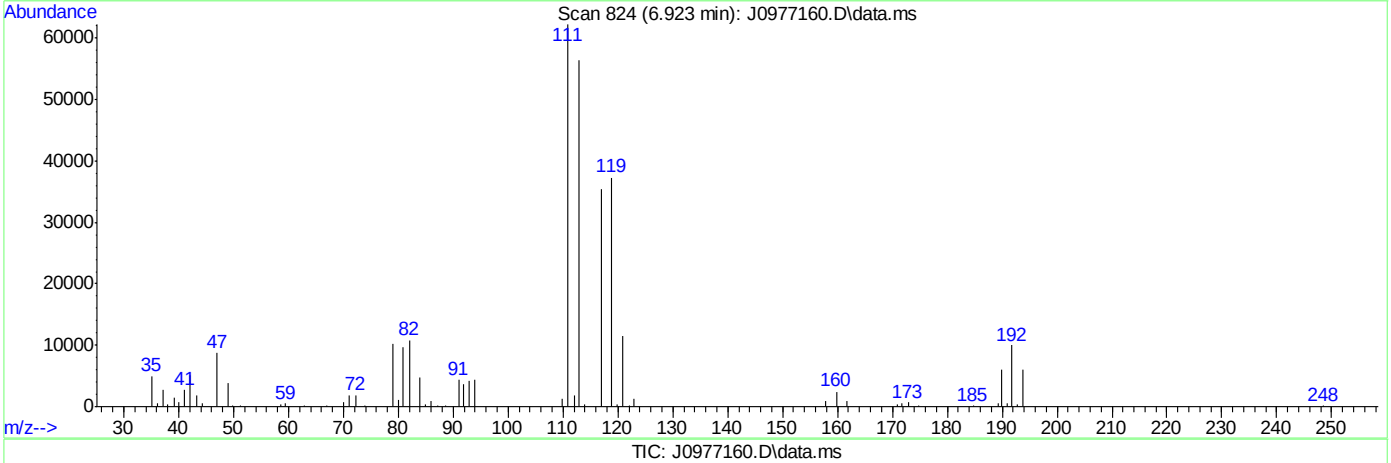
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977160.D
Acq On : 14 Jun 2016 10:49 am
Operator : darshnap
Sample : ic5333-4 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 11:15:00 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977160.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 25.26ug/L m

response 102087

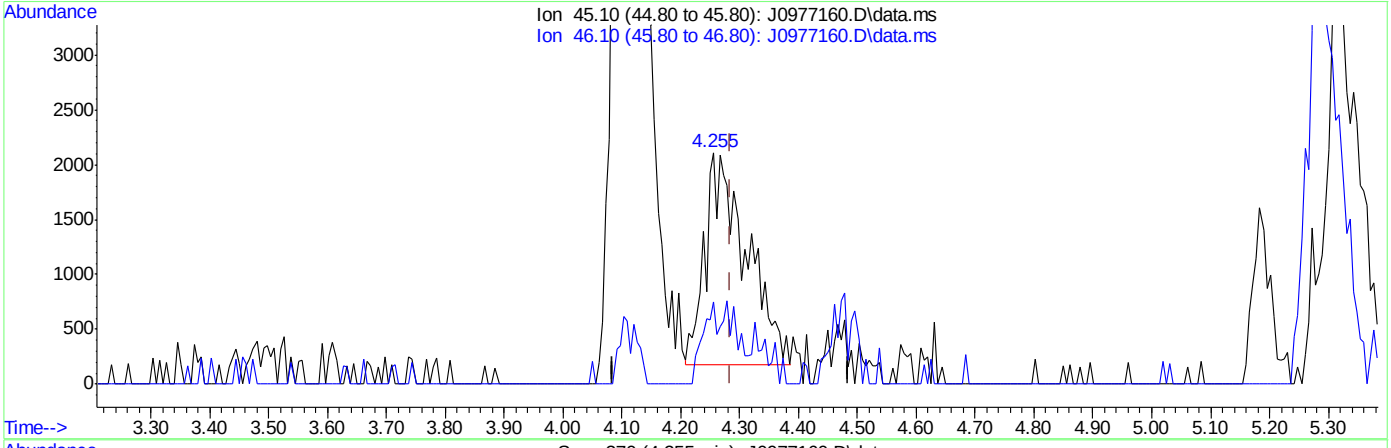
Ion	Exp%	Act%
116.90	100	100
118.90	89.90	105.07
120.90	31.00	32.17
82.00	24.80	30.38

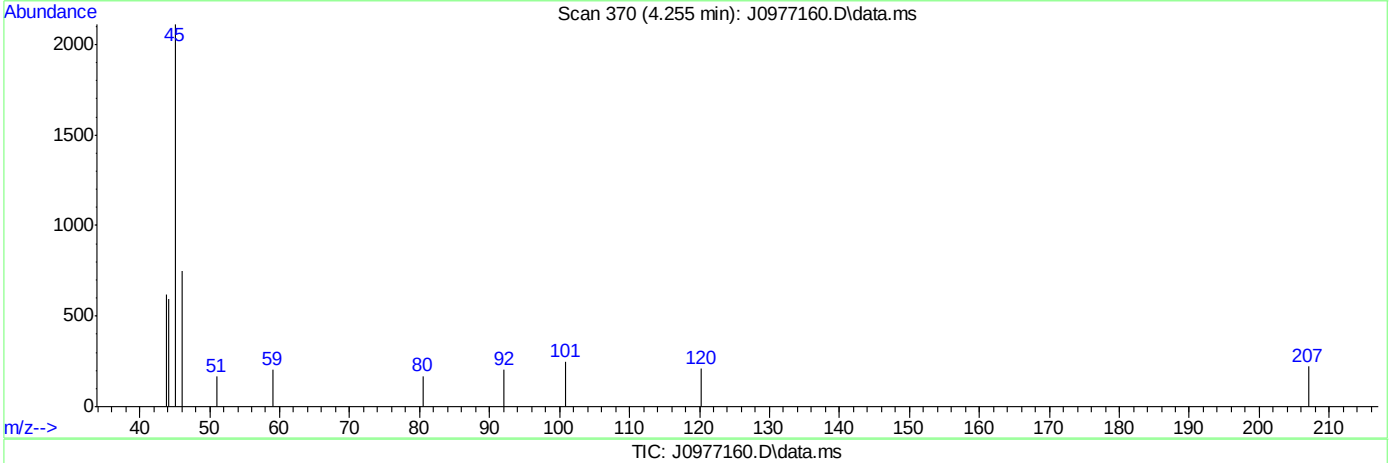
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977160.D
Acq On : 14 Jun 2016 10:49 am
Operator : darshnap
Sample : ic5333-4 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 11:15:00 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977160.D\data.ms

(107) Ethanol

4.255min (-0.030) 359.62ug/L

response 9387

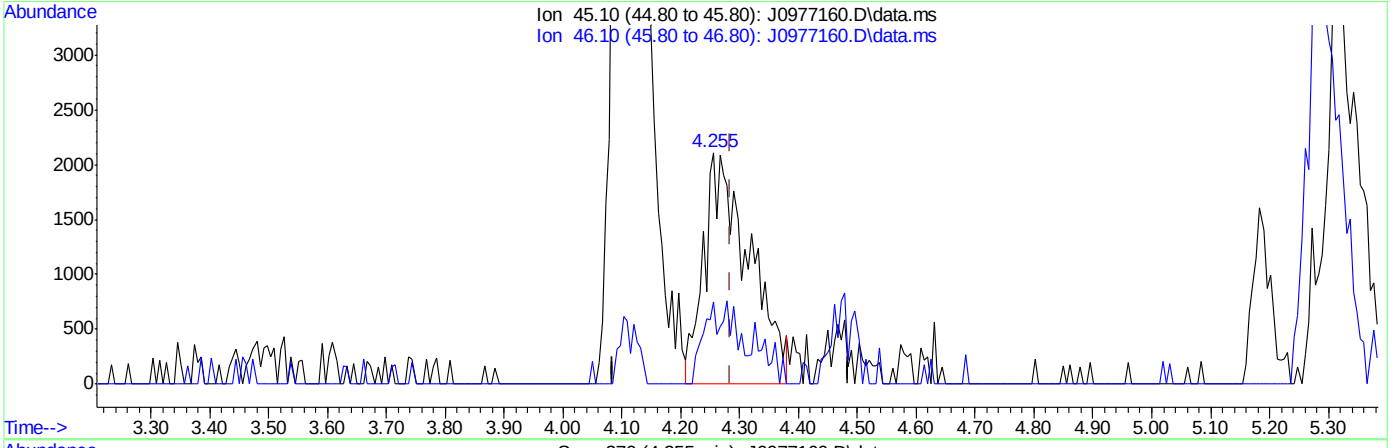
Ion	Exp%	Act%
45.10	100	100
46.10	24.70	38.76
0.00	0.00	0.00
0.00	0.00	0.00

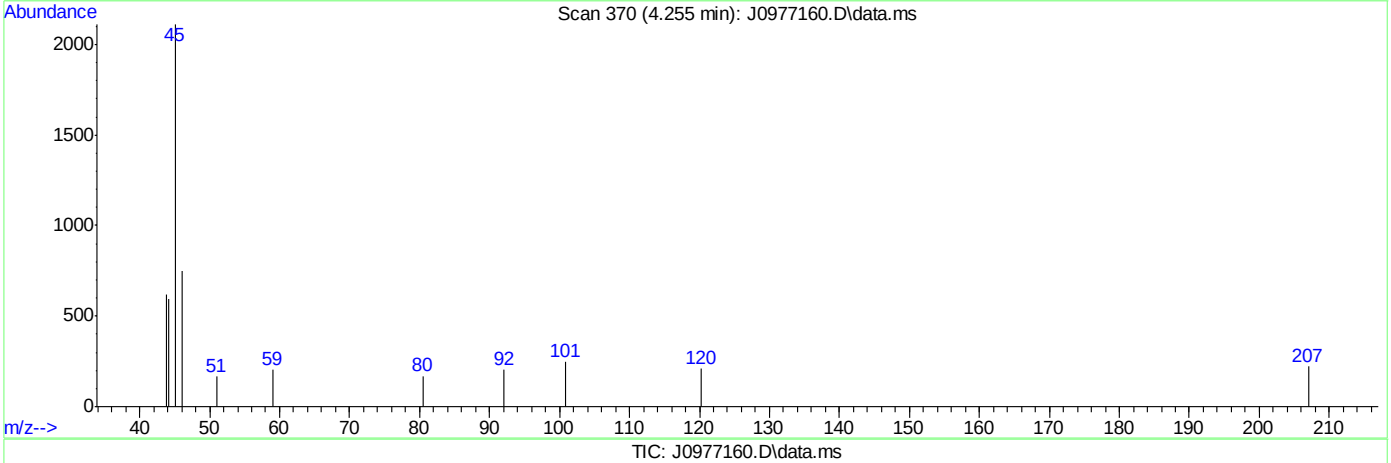
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977160.D
Acq On : 14 Jun 2016 10:49 am
Operator : darshnap
Sample : ic5333-4 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 14 11:15:00 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977160.D\data.ms

(107) Ethanol

4.255min (-0.030) 432.48ug/L m

response 11222

Ion	Exp%	Act%
45.10	100	100
46.10	24.70	35.43
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/15/16 16:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977161.D
Acq On : 14 Jun 2016 11:12 am
Operator : darshnap
Sample : icc5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 11:34:24 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	574891	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	433982	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	242638	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	37841	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	141338	49.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.34%			
46) 1,2-Dichloroethane-d4	7.470	65	178671	50.23	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.46%			
57) Toluene-d8	9.291	98	583023	50.27	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.54%			
79) 4-Bromofluorobenzene	12.041	95	226997	49.04	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.704	85	103416	29.65	ug/L	95
3) Chloromethane	2.898	50	179644	37.27	ug/L	93
4) Vinyl Chloride	3.039	62	166983	41.34	ug/L	87
5) 1,3-Butadiene	3.033	54	92476	40.64	ug/L	98
6) Bromomethane	3.457	94	110674	43.57	ug/L	99
7) Chloroethane	3.603	64	90931	48.62	ug/L	93
8) Trichlorofluoromethane	3.833	101	207047m	41.08	ug/L	
9) Ethyl Ether	4.115	59	112067	40.67	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.350	67	147599	40.41	ug/L	96
11) 1,1-Dichloroethene	4.391	61	200698	39.45	ug/L	96
12) Freon 113	4.461	101	124639	40.31	ug/L	93
13) Carbon Disulfide	4.473	76	426009	39.05	ug/L	98
14) Iodomethane	4.579	142	212741	40.79	ug/L	96
15) Allyl chloride	4.914	41	186344	34.27	ug/L	95
16) Methylene Chloride	5.037	49	204047	39.46	ug/L	99
17) Acetone	5.066	58	39578	183.95	ug/L	92
18) Methyl acetate	5.184	74	75517	200.25	ug/L #	84
19) trans-1,2-Dichloroethene	5.219	61	184763	40.11	ug/L	94
20) Hexane	5.290	56	129604	41.78	ug/L	96
21) Methyl Tert Butyl Ether	5.325	73	352305	40.03	ug/L	95
22) Acetonitrile	5.572	40	60474	356.44	ug/L #	80
23) Di-isopropyl ether	5.707	45	495931	40.44	ug/L	97
24) Chloroprene	5.860	53	184079	32.73	ug/L	97
25) 1,1-Dichloroethane	5.889	63	232812	39.53	ug/L	99
26) Acrylonitrile	5.918	53	191183	190.57	ug/L	96
27) ETBE	6.101	59	458820	39.32	ug/L	99
28) Vinyl acetate	6.095	43	1302784	206.27	ug/L	100
29) cis-1,2-Dichloroethene	6.465	96	140122	39.70	ug/L	95
30) 2,2-Dichloropropane	6.600	77	172992	40.22	ug/L	98
31) Bromochloromethane	6.670	128	59210	37.98	ug/L	97
32) Cyclohexane	6.717	56	245333	37.14	ug/L	97
33) Chloroform	6.723	83	237848	39.45	ug/L	98
34) Ethyl acetate	6.800	43	513016	217.54	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977161.D
Acq On : 14 Jun 2016 11:12 am
Operator : darshnap
Sample : icc5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 11:34:24 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	27392	39.21 ug/L	86
37) Carbon Tetrachloride	6.917	117	165162m	38.73 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	200251	39.38 ug/L	97
39) 2-Butanone	7.017	43	202932	188.89 ug/L	99
40) 1,1-Dichloropropene	7.093	75	166378	37.80 ug/L	94
41) tert-Butyl Formate	7.176	59	983844	457.70 ug/L	96
42) Propionitrile	7.323	54	130953	383.52 ug/L	88
43) Methacrylonitrile	7.346	41	641729	416.23 ug/L	98
44) Benzene	7.346	78	521932	40.66 ug/L	94
45) TAME	7.423	73	352513	37.42 ug/L	97
47) 1,2-Dichloroethane	7.540	62	177544	41.46 ug/L	99
48) Trichloroethene	7.928	95	129926	40.65 ug/L	96
49) Methylcyclohexane	7.945	83	228368	38.45 ug/L	98
50) Dibromomethane	8.351	93	71535	41.00 ug/L	98
51) 1,2-Dichloropropane	8.439	63	136028	39.28 ug/L	97
52) Bromodichloromethane	8.486	83	167765	38.96 ug/L	97
53) Methyl methacrylate	8.580	41	88414	38.70 ug/L	91
54) 2-Chloroethyl vinyl ether	8.997	63	382016	211.85 ug/L	97
55) cis-1,3-Dichloropropene	9.097	75	197551	39.91 ug/L	97
58) Toluene	9.344	91	546600	40.29 ug/L	99
59) 2-Nitropropane	9.544	41	137568	205.97 ug/L	94
60) 4-Methyl-2-pentanone	9.661	43	505803	189.99 ug/L	98
61) trans-1,3-Dichloropropene	9.726	75	170401	39.22 ug/L	97
62) Tetrachloroethene	9.743	166	135992	42.69 ug/L	95
63) Ethyl methacrylate	9.826	69	134964	38.76 ug/L	98
64) 1,1,2-Trichloroethane	9.890	83	91721	40.55 ug/L	96
65) Dibromochloromethane	10.090	129	111680	37.96 ug/L	98
66) 1,3-Dichloropropane	10.172	76	186042	38.59 ug/L	98
67) 1,2-Dibromoethane	10.349	107	101971	38.60 ug/L	95
68) 2-hexanone	10.478	43	358059	198.34 ug/L	98
69) 1-Chlorohexane	10.783	91	164893	37.68 ug/L	93
70) Ethylbenzene	10.848	91	652598	40.93 ug/L	98
71) Chlorobenzene	10.854	112	357628	41.50 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.901	131	120830	38.22 ug/L	98
73) m,p-Xylene	10.983	91	999055	81.66 ug/L	99
74) o-Xylene	11.424	91	500131	38.42 ug/L	99
75) Styrene	11.477	104	371568	38.03 ug/L	97
76) Bromoform	11.535	173	66821	37.92 ug/L	94
77) Isopropylbenzene	11.729	105	576661	39.70 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.070	53	21149	24.17 ug/L	96
81) n-Propylbenzene	12.146	91	722044	39.79 ug/L	100
82) Bromobenzene	12.170	156	155177	41.00 ug/L	94
83) 1,1,2,2-Tetrachloroethane	12.205	83	131114	37.49 ug/L	99
84) 1,3,5-Trimethylbenzene	12.329	105	541988	39.35 ug/L	97
85) 2-Chlorotoluene	12.340	91	511735	40.13 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.387	53	22612	26.78 ug/L #	86
87) 1,2,3-Trichloropropane	12.364	110	33054	40.27 ug/L	92
88) Cyclohexanone	12.434	55	20088	169.94 ug/L	96
89) 4-Chlorotoluene	12.505	91	460406	39.71 ug/L	99
90) a-Methyl Styrene	12.593	118	262980	38.44 ug/L	97

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977161.D
Acq On : 14 Jun 2016 11:12 am
Operator : darshnap
Sample : icc5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 11:34:24 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	297891	37.82	ug/L		97
92)	1,2,4-Trimethylbenzene	12.740	105	530487	39.82	ug/L		98
93)	Pentachloroethane	12.722	167	84905	36.53	ug/L		97
94)	sec-Butylbenzene	12.857	105	631647	39.28	ug/L		99
95)	4-Isopropyltoluene	12.987	119	530402	39.74	ug/L		99
96)	1,3-Dichlorobenzene	13.122	146	301114	40.54	ug/L		97
97)	1,4-Dichlorobenzene	13.210	146	309601	40.45	ug/L		96
98)	n-Butylbenzene	13.421	92	304609	38.93	ug/L		93
99)	Benzyl Chloride	13.433	126	43378	38.73	ug/L	#	94
100)	1,2-Dichlorobenzene	13.633	146	283703	38.15	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	14.367	75	17467	34.22	ug/L		87
102)	Hexachlorobutadiene	14.914	225	95505	39.34	ug/L		98
103)	1,2,4-Trichlorobenzene	14.961	180	184491	39.69	ug/L		97
104)	Naphthalene	15.243	128	253617	35.10	ug/L		94
105)	1,2,3-Trichlorobenzene	15.413	180	145533	35.44	ug/L		96
107)	Ethanol	4.273	45	19455m	766.20	ug/L		
108)	acrolein	4.743	56	88643	241.50	ug/L		99
109)	Tert Butyl Alcohol	5.366	59	83626	399.03	ug/L		96
110)	tert Amyl alcohol	7.558	59	66505	423.86	ug/L		97
111)	Isobutyl alcohol	7.446	42	64800	905.41	ug/L	#	82
112)	1,4-Dioxane	8.662	88	14486	776.19	ug/L		75
113)	3,3-Dimethyl-1-butanol	10.419	57	402583	2247.16	ug/L		98

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

7.6.5

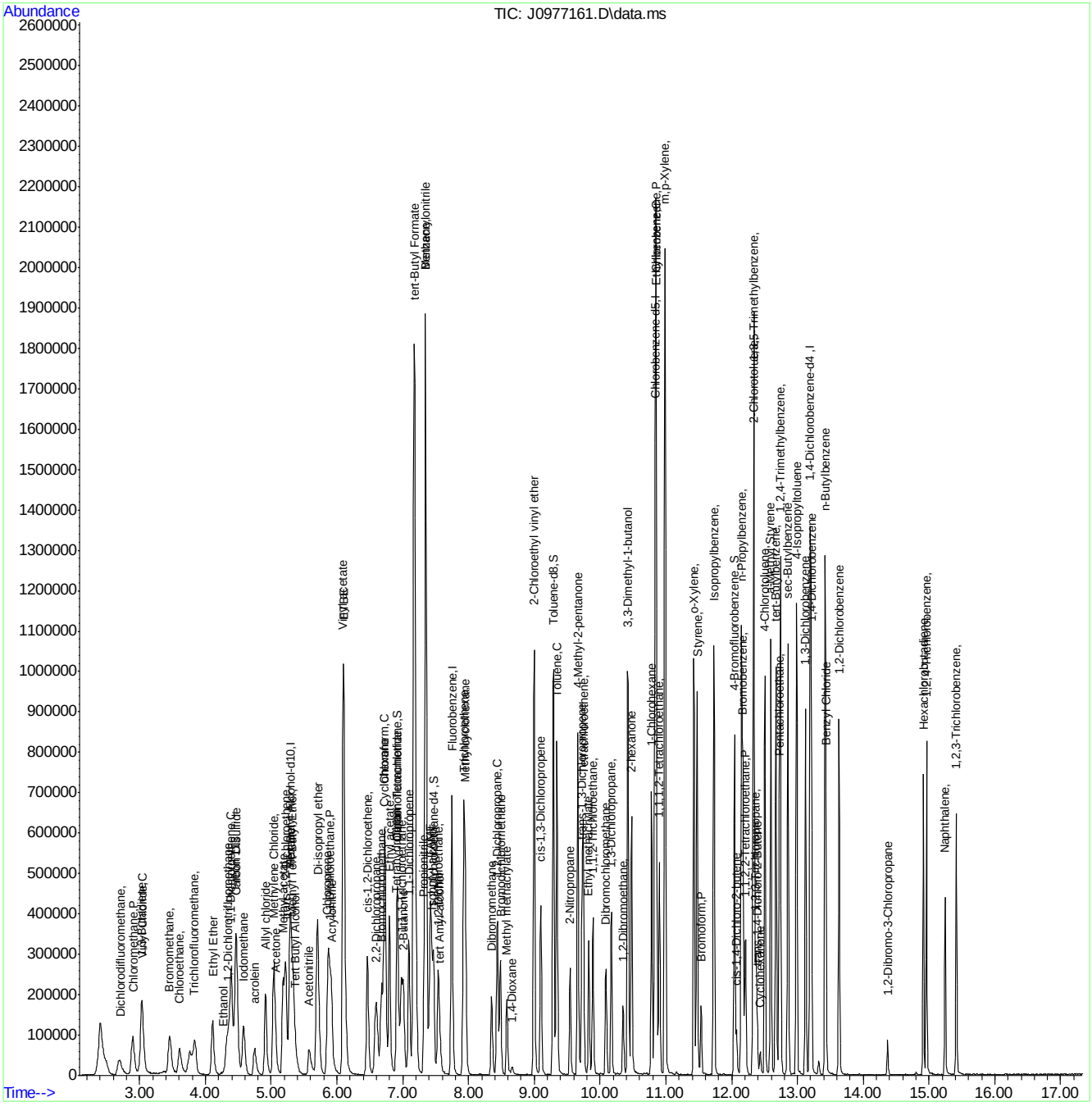
7

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977161.D
Acq On : 14 Jun 2016 11:12 am
Operator : darshnap
Sample : icc5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 11:34:24 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration



Manual Integration Approval Summary

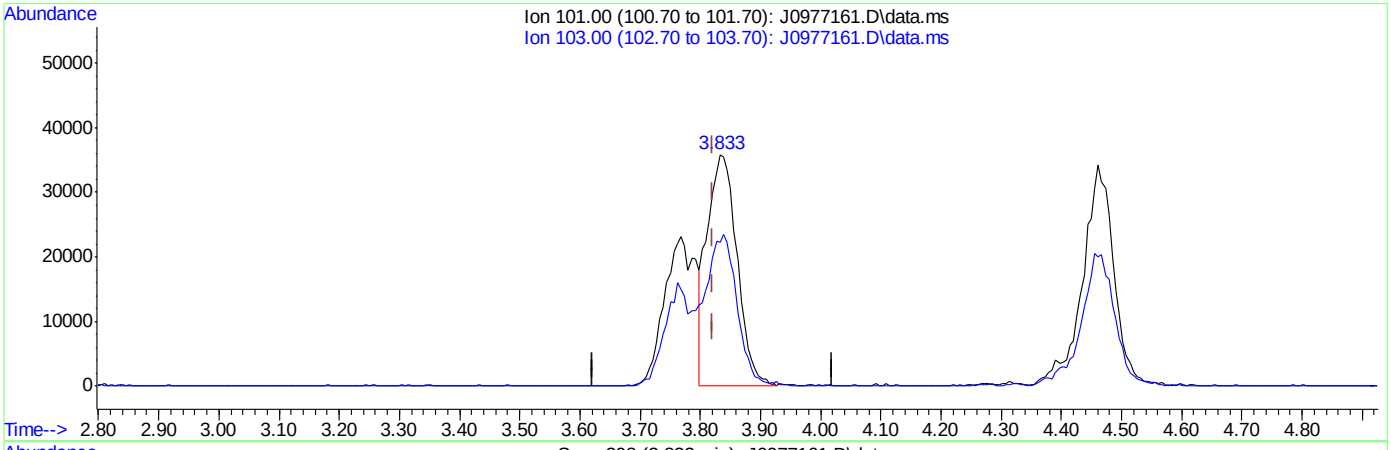
Sample Number:	VJ5333-ICC5333	**Method:**	SW846 8260B
Lab FileID:	J0977161.D	**Analyst approved:**	06/15/16 07:59 Darshna Patel
Injection Time:	06/14/16 11:12	**Supervisor approved:**	06/15/16 16:05 Juan Garcia

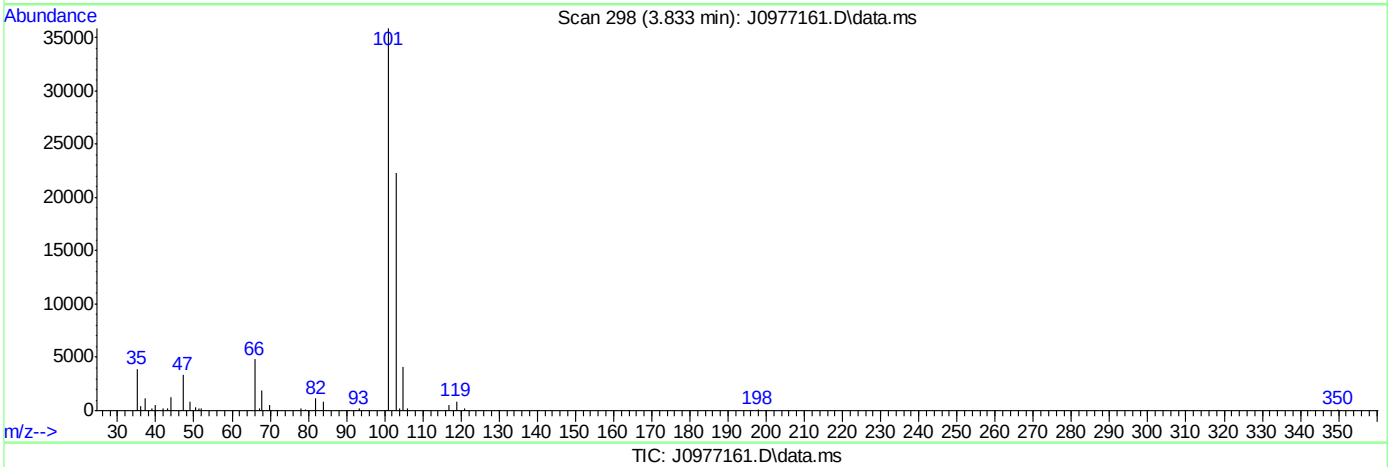
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977161.D
Acq On : 14 Jun 2016 11:12 am
Operator : darshnap
Sample : icc5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 11:33:52 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977161.D\data.ms

(8) Trichlorofluoromethane ( )

3.833min (+0.012) 24.54ug/L

response 123689

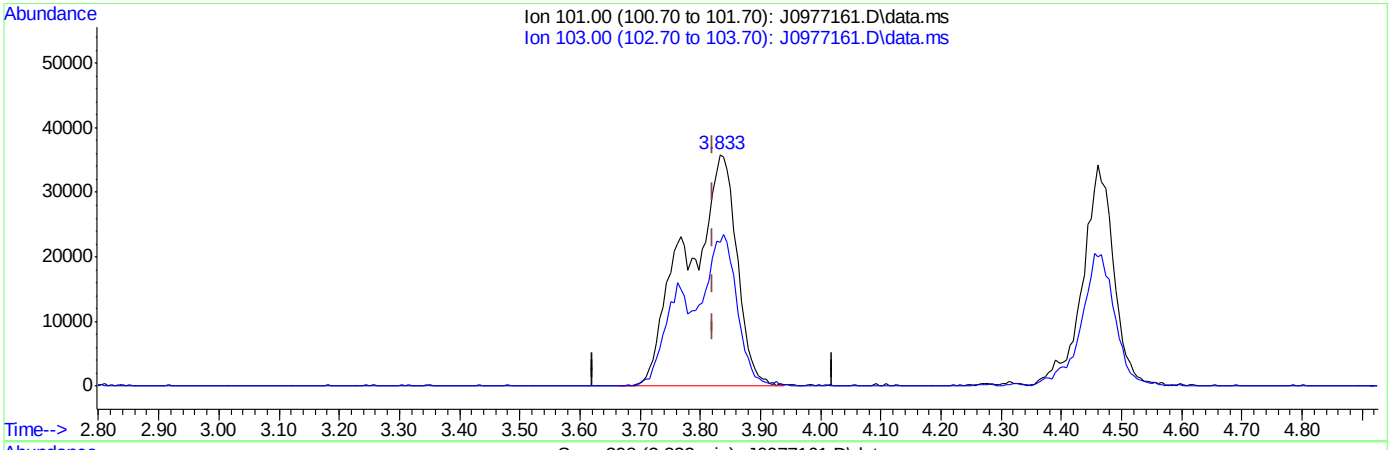
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	59.93
0.00	0.00	0.00
0.00	0.00	0.00

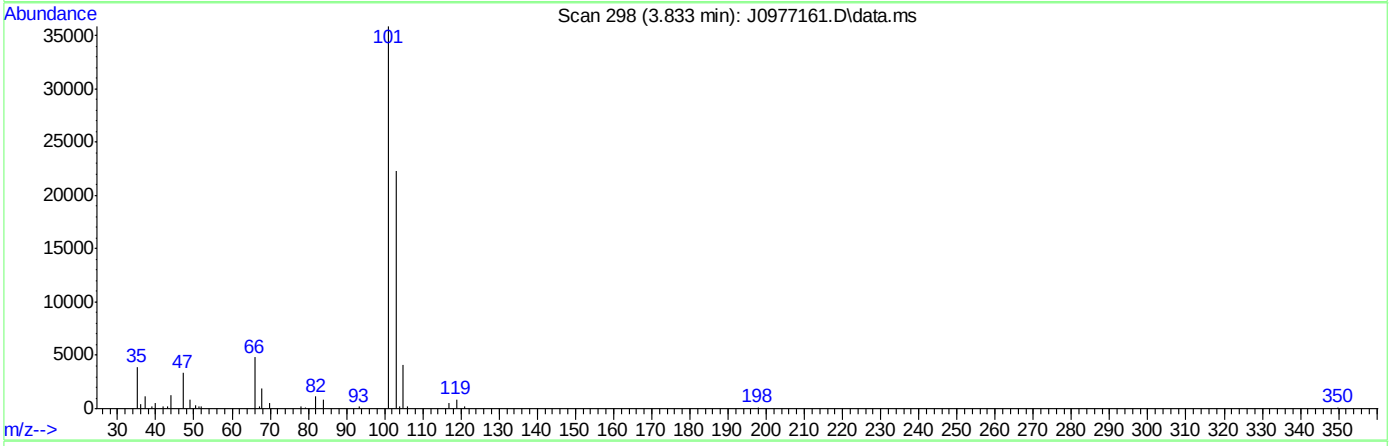
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977161.D
Acq On : 14 Jun 2016 11:12 am
Operator : darshnap
Sample : icc5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 11:33:52 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977161.D\data.ms

(8) Trichlorofluoromethane ( )

3.833min (+0.012) 41.08ug/L m

response 207047

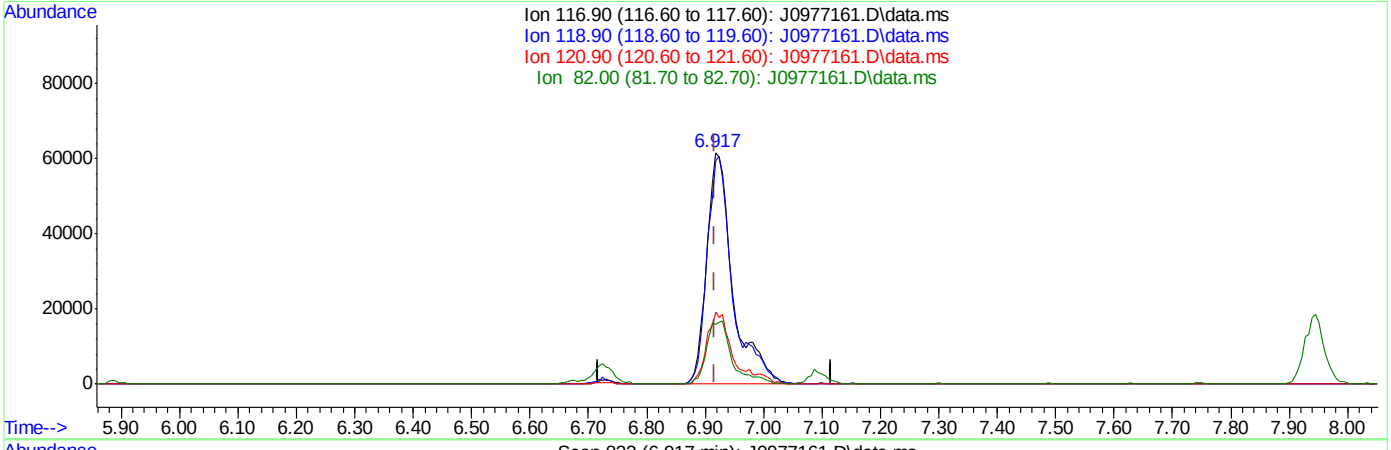
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	62.12
0.00	0.00	0.00
0.00	0.00	0.00

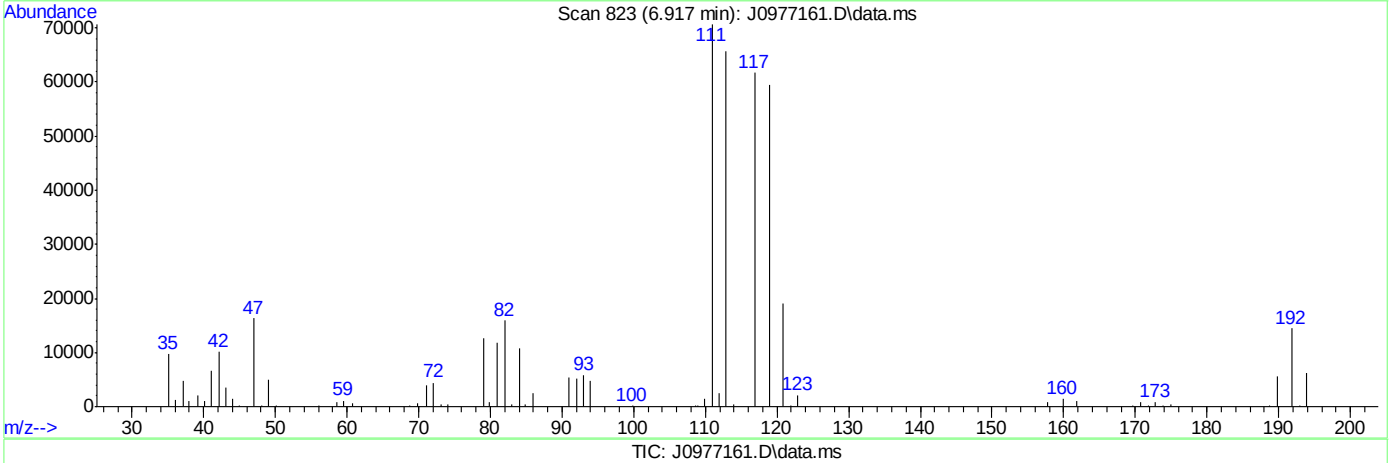
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977161.D
Acq On : 14 Jun 2016 11:12 am
Operator : darshnap
Sample : icc5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 11:33:52 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977161.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 44.08ug/L

response 189171

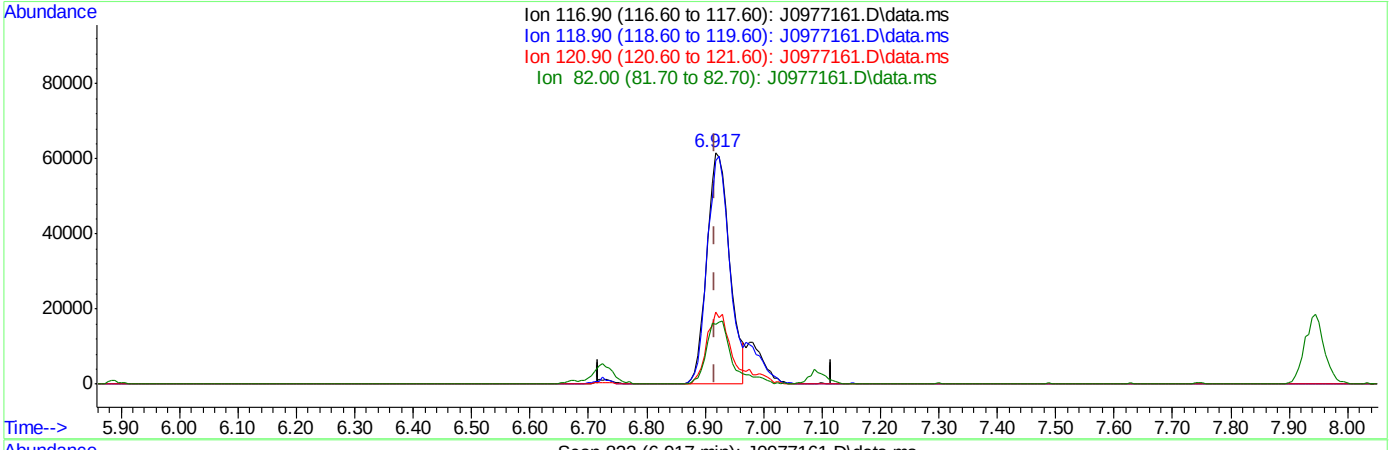
Ion	Exp%	Act%
116.90	100	100
118.90	89.90	96.52
120.90	31.00	30.92
82.00	24.80	25.73

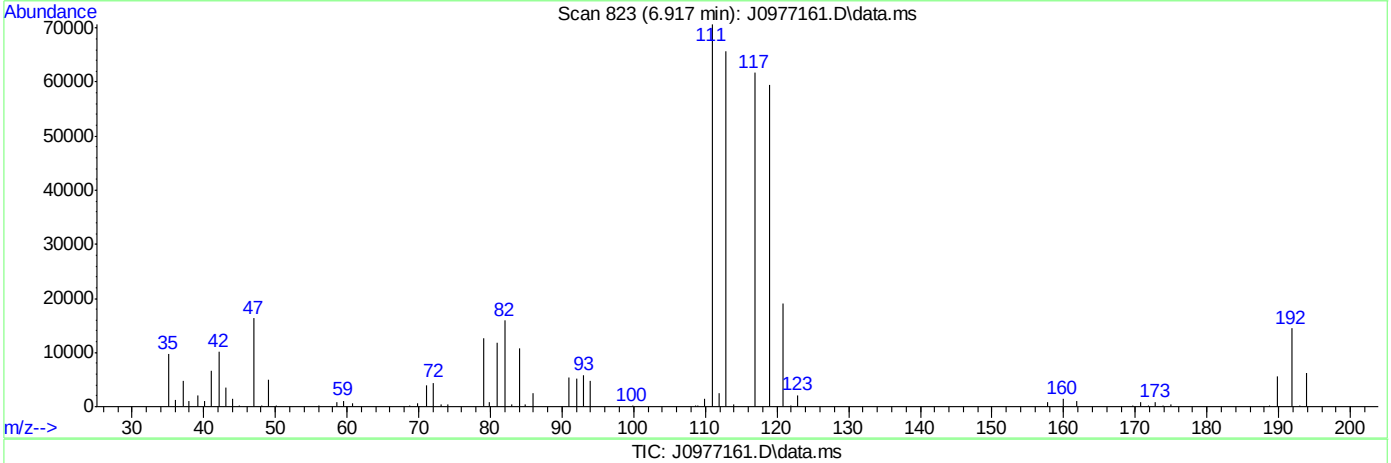
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977161.D
Acq On : 14 Jun 2016 11:12 am
Operator : darshnap
Sample : icc5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 11:33:52 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977161.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 38.73ug/L m

response 165162

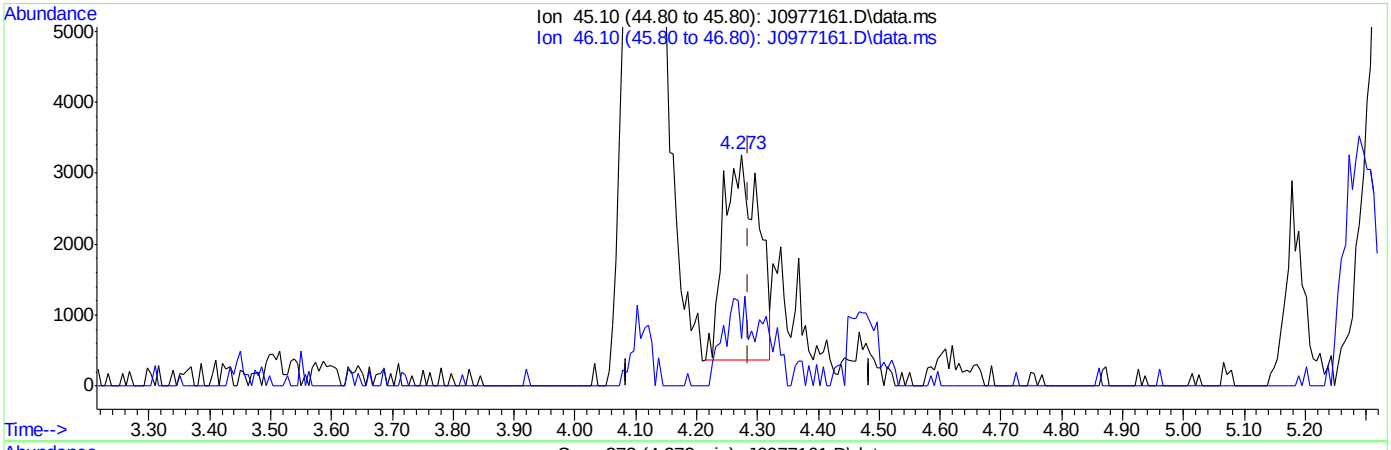
Ion	Exp%	Act%
116.90	100	100
118.90	89.90	96.52
120.90	31.00	30.92
82.00	24.80	25.73

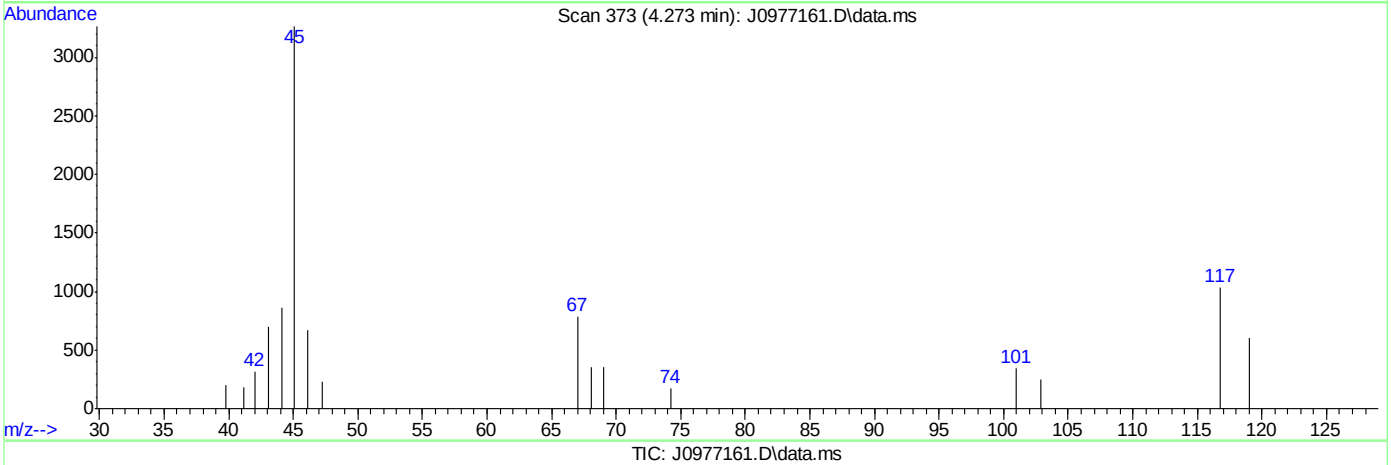
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977161.D
Acq On : 14 Jun 2016 11:12 am
Operator : darshnap
Sample : icc5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 11:33:52 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977161.D\data.ms

(107) Ethanol

4.273min (-0.012) 437.47ug/L

response 11414

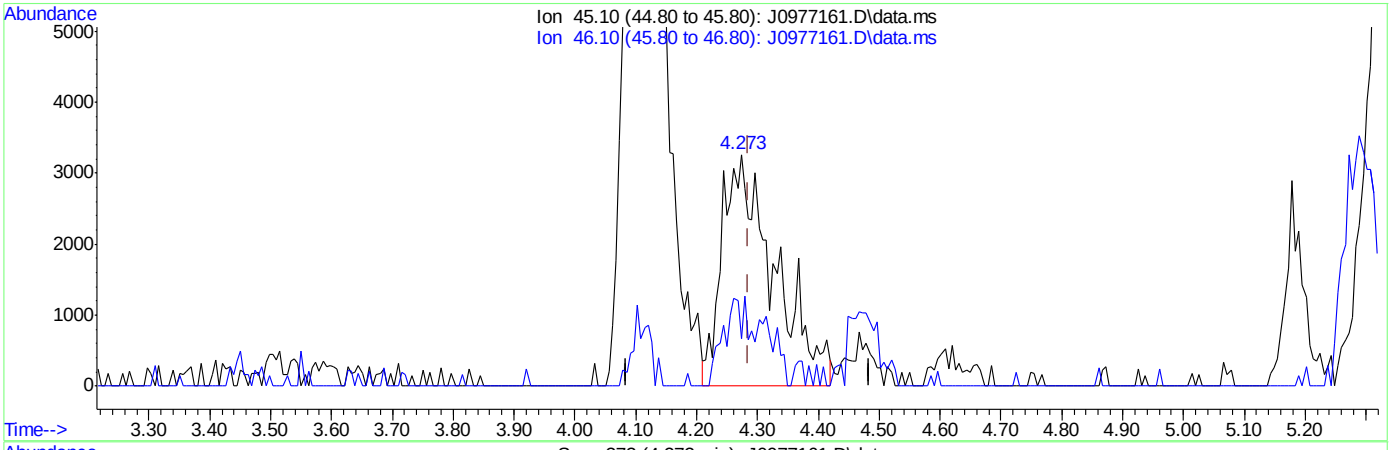
Ion	Exp%	Act%
45.10	100	100
46.10	24.70	23.14
0.00	0.00	0.00
0.00	0.00	0.00

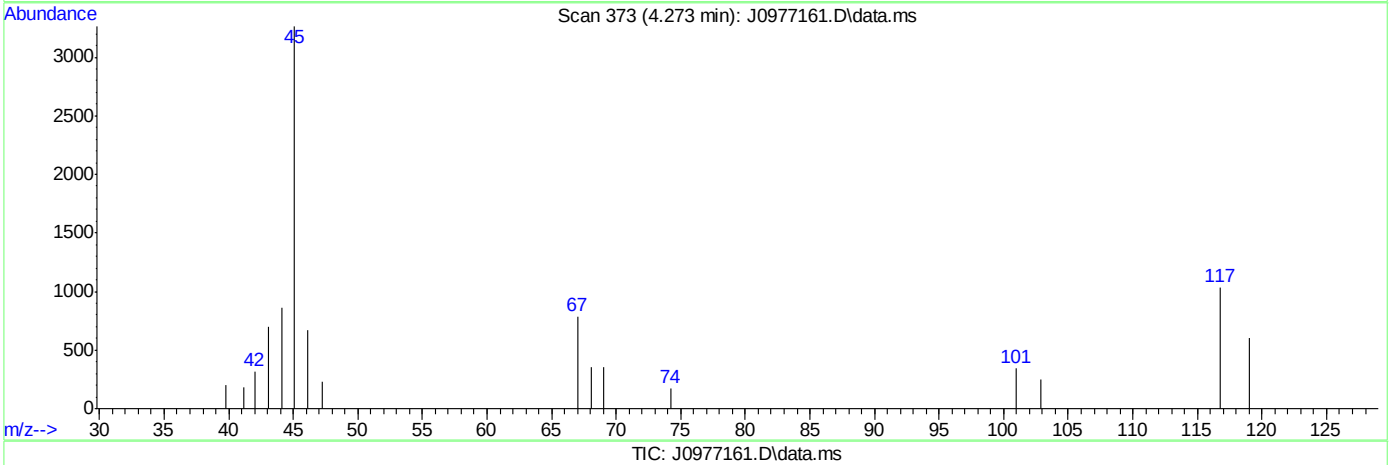
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977161.D
Acq On : 14 Jun 2016 11:12 am
Operator : darshnap
Sample : icc5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 14 11:33:52 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977161.D\data.ms

(107) Ethanol

4.273min (-0.012) 766.20ug/L m

response 19455

Ion	Exp%	Act%
45.10	100	100
46.10	24.70	20.53
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/15/16 16:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977162.D
Acq On : 14 Jun 2016 11:35 am
Operator : darshnap
Sample : ic5333-6 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 12:23:16 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	603942	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	470420	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	260860	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	42656	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	147443	49.32	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.64%			
46) 1,2-Dichloroethane-d4	7.469	65	191089	51.13	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.26%			
57) Toluene-d8	9.291	98	614146	48.85	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.70%			
79) 4-Bromofluorobenzene	12.041	95	239389	48.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.22%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.704	85	185528	50.64	ug/L	98
3) Chloromethane	2.904	50	327027	63.79	ug/L	96
4) Vinyl Chloride	3.051	62	292877	67.76	ug/L	95
5) 1,3-Butadiene	3.033	54	187704	78.53	ug/L	96
6) Bromomethane	3.462	94	182666	74.69	ug/L	96
7) Chloroethane	3.615	64	138607	Below Cal		99
8) Trichlorofluoromethane	3.838	101	370117m	69.90	ug/L	
9) Ethyl Ether	4.115	59	207619	71.41	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.355	67	279328	70.61	ug/L	98
11) 1,1-Dichloroethene	4.397	61	385992	70.94	ug/L	98
12) Freon 113	4.461	101	234582	69.56	ug/L	95
13) Carbon Disulfide	4.467	76	814740	69.67	ug/L	99
14) Iodomethane	4.579	142	393848	70.59	ug/L	97
15) Allyl chloride	4.914	41	385907	67.55	ug/L	95
16) Methylene Chloride	5.037	49	373600	71.26	ug/L	96
17) Acetone	5.061	58	75473	328.22	ug/L #	82
18) Methyl acetate	5.184	74	139623	352.44	ug/L	94
19) trans-1,2-Dichloroethene	5.219	61	346018	70.69	ug/L	94
20) Hexane	5.290	56	231856	69.57	ug/L	95
21) Methyl Tert Butyl Ether	5.325	73	664816	70.70	ug/L	95
22) Acetonitrile	5.578	40	113400	629.05	ug/L #	78
23) Di-isopropyl ether	5.707	45	922568	71.45	ug/L	99
24) Chloroprene	5.860	53	407721	69.00	ug/L	96
25) 1,1-Dichloroethane	5.883	63	438801	70.12	ug/L	98
26) Acrylonitrile	5.912	53	354628	336.48	ug/L	94
27) ETBE	6.106	59	869383	70.93	ug/L	100
28) Vinyl acetate	6.095	43	2357461	355.30	ug/L	100
29) cis-1,2-Dichloroethene	6.465	96	257311	68.28	ug/L	98
30) 2,2-Dichloropropane	6.600	77	332563	71.16	ug/L	95
31) Bromochloromethane	6.676	128	110044	66.00	ug/L	97
32) Cyclohexane	6.723	56	454502	65.50	ug/L	98
33) Chloroform	6.729	83	446658	69.77	ug/L	97
34) Ethyl acetate	6.794	43	900368	363.43	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977162.D
Acq On : 14 Jun 2016 11:35 am
Operator : darshnap
Sample : ic5333-6 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 12:23:16 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	52463	70.14 ug/L	97
37) Carbon Tetrachloride	6.917	117	320981m	69.20 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	382915	69.97 ug/L	95
39) 2-Butanone	7.011	43	381176	337.74 ug/L	95
40) 1,1-Dichloropropene	7.093	75	309095	66.84 ug/L	95
41) tert-Butyl Formate	7.176	59	1823406	807.48 ug/L	92
42) Propionitrile	7.323	54	240912	671.62 ug/L	91
43) Methacrylonitrile	7.352	41	1161677	726.49 ug/L	98
44) Benzene	7.346	78	978622	71.43 ug/L	97
45) TAME	7.422	73	675712	68.27 ug/L	98
47) 1,2-Dichloroethane	7.534	62	320980	71.34 ug/L	99
48) Trichloroethene	7.922	95	242218	70.90 ug/L	97
49) Methylcyclohexane	7.945	83	432971	69.39 ug/L	96
50) Dibromomethane	8.351	93	131449	70.45 ug/L	96
51) 1,2-Dichloropropane	8.439	63	258930	70.82 ug/L	94
52) Bromodichloromethane	8.486	83	317202	69.86 ug/L	98
53) Methyl methacrylate	8.580	41	167232	67.89 ug/L	97
54) 2-Chloroethyl vinyl ether	8.997	63	703290	371.25 ug/L	100
55) cis-1,3-Dichloropropene	9.097	75	375402	71.26 ug/L	98
58) Toluene	9.344	91	1022696	69.26 ug/L	99
59) 2-Nitropropane	9.544	41	245957	339.72 ug/L	99
60) 4-Methyl-2-pentanone	9.661	43	976488	338.39 ug/L	99
61) trans-1,3-Dichloropropene	9.726	75	315621	67.01 ug/L	97
62) Tetrachloroethene	9.743	166	252809	70.39 ug/L	98
63) Ethyl methacrylate	9.826	69	263037	66.39 ug/L	96
64) 1,1,2-Trichloroethane	9.890	83	167019	67.76 ug/L	98
65) Dibromochloromethane	10.090	129	215515	67.58 ug/L	98
66) 1,3-Dichloropropane	10.172	76	333452	63.81 ug/L	98
67) 1,2-Dibromoethane	10.349	107	188743	65.90 ug/L	96
68) 2-hexanone	10.478	43	690522	352.87 ug/L	97
69) 1-Chlorohexane	10.783	91	323627	68.23 ug/L	97
70) Ethylbenzene	10.848	91	1218433	70.78 ug/L	99
71) Chlorobenzene	10.854	112	671690	70.78 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.901	131	228464	66.66 ug/L	97
73) m,p-Xylene	10.989	91	1852457	142.68 ug/L	97
74) o-Xylene	11.424	91	952595	67.50 ug/L	98
75) Styrene	11.471	104	713537	67.37 ug/L	99
76) Bromoform	11.535	173	126571	64.42 ug/L	95
77) Isopropylbenzene	11.729	105	1087386	67.58 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.076	53	47788	49.73 ug/L	97
81) n-Propylbenzene	12.146	91	1370703	71.47 ug/L	99
82) Bromobenzene	12.170	156	289105	69.94 ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.205	83	238676	63.48 ug/L	94
84) 1,3,5-Trimethylbenzene	12.329	105	1030255	69.57 ug/L	99
85) 2-Chlorotoluene	12.340	91	969415	72.30 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.387	53	47819	52.36 ug/L	97
87) 1,2,3-Trichloropropane	12.370	110	58219	66.49 ug/L	96
88) Cyclohexanone	12.434	55	37534	295.34 ug/L	93
89) 4-Chlorotoluene	12.505	91	887053	71.38 ug/L	100
90) a-Methyl Styrene	12.593	118	541910	73.68 ug/L	99

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977162.D
Acq On : 14 Jun 2016 11:35 am
Operator : darshnap
Sample : ic5333-6 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 12:23:16 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.669	91	563869	66.58	ug/L	97
92)	1,2,4-Trimethylbenzene	12.740	105	1013650	71.44	ug/L	98
93)	Pentachloroethane	12.722	167	169095	67.66	ug/L	98
94)	sec-Butylbenzene	12.857	105	1198166	69.41	ug/L	100
95)	4-Isopropyltoluene	12.987	119	1012223	70.03	ug/L	100
96)	1,3-Dichlorobenzene	13.122	146	565349	69.81	ug/L	99
97)	1,4-Dichlorobenzene	13.210	146	588335	70.72	ug/L	99
98)	n-Butylbenzene	13.421	92	604791	71.90	ug/L	98
99)	Benzyl Chloride	13.433	126	85416	67.24	ug/L #	92
100)	1,2-Dichlorobenzene	13.633	146	532116	66.55	ug/L	99
101)	1,2-Dibromo-3-Chloropr...	14.367	75	33359	60.78	ug/L	87
102)	Hexachlorobutadiene	14.914	225	187929	69.05	ug/L	99
103)	1,2,4-Trichlorobenzene	14.961	180	350916	68.26	ug/L	99
104)	Naphthalene	15.243	128	476143	61.30	ug/L	97
105)	1,2,3-Trichlorobenzene	15.413	180	270370	61.24	ug/L	96
107)	Ethanol	4.267	45	33406m	1212.45	ug/L	
108)	acrolein	4.755	56	166879	419.62	ug/L	95
109)	Tert Butyl Alcohol	5.366	59	161620	684.14	ug/L	77
110)	tert Amyl alcohol	7.563	59	132322	748.14	ug/L	97
111)	Isobutyl alcohol	7.440	42	115122	1424.24	ug/L	92
112)	1,4-Dioxane	8.662	88	24813	1156.88	ug/L	85
113)	3,3-Dimethyl-1-butanol	10.425	57	777931	3738.31	ug/L	96

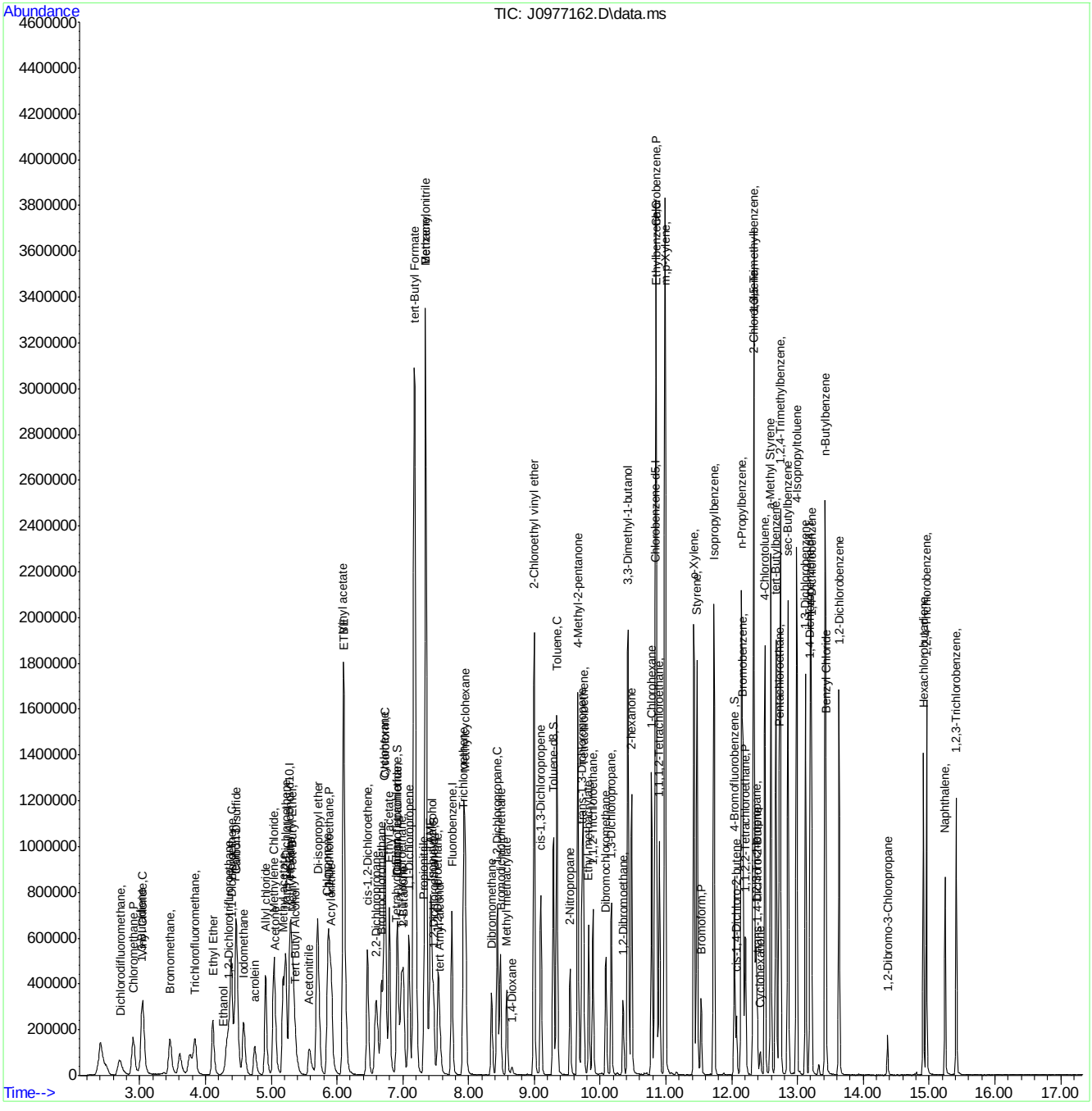
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977162.D
Acq On : 14 Jun 2016 11:35 am
Operator : darshnap
Sample : ic5333-6 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 12:23:16 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration



MSJ061416a.M Wed Jun 15 07:56:37 2016 Page: 4

SGS ACCUTEST FA34748

Manual Integration Approval Summary

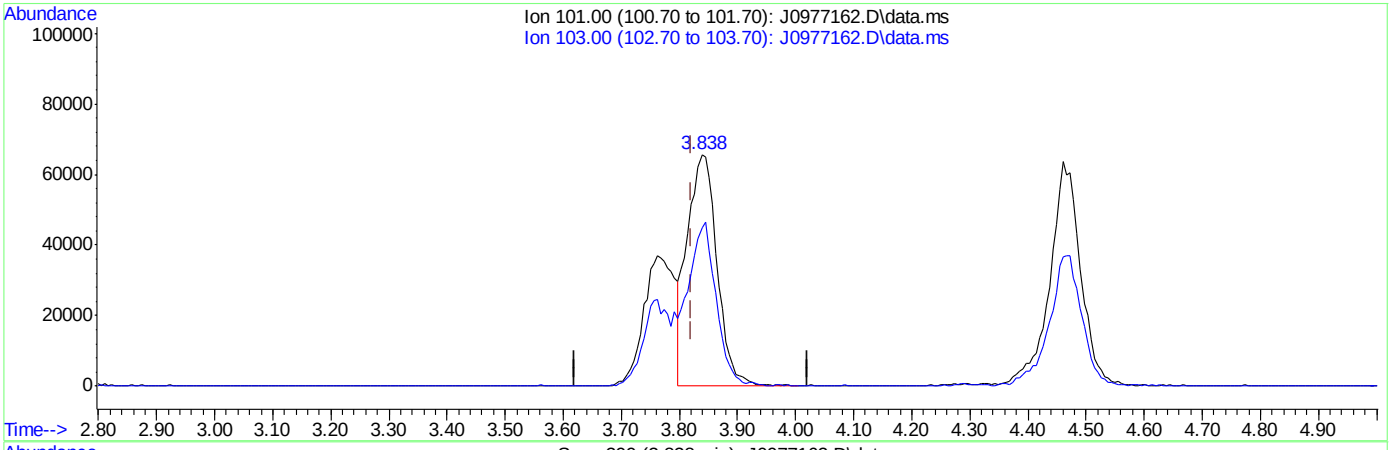
Sample Number:	VJ5333-IC5333	**Method:**	SW846 8260B
Lab FileID:	J0977162.D	**Analyst approved:**	06/15/16 07:59 Darshna Patel
Injection Time:	06/14/16 11:35	**Supervisor approved:**	06/15/16 16:05 Juan Garcia

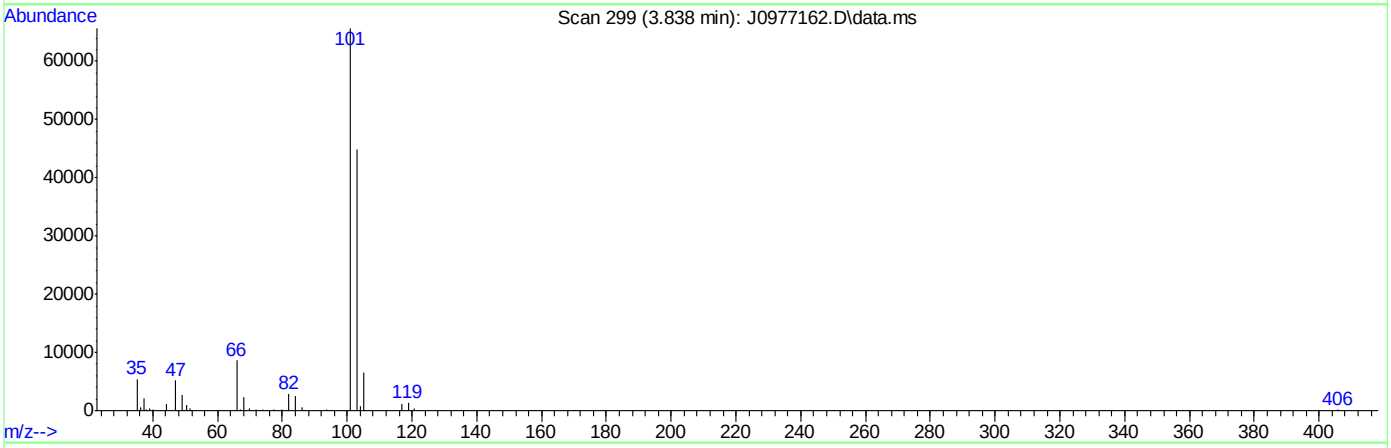
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977162.D
Acq On : 14 Jun 2016 11:35 am
Operator : darshnap
Sample : ic5333-6 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 12:22:38 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977162.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.017) 43.63ug/L

response 231003

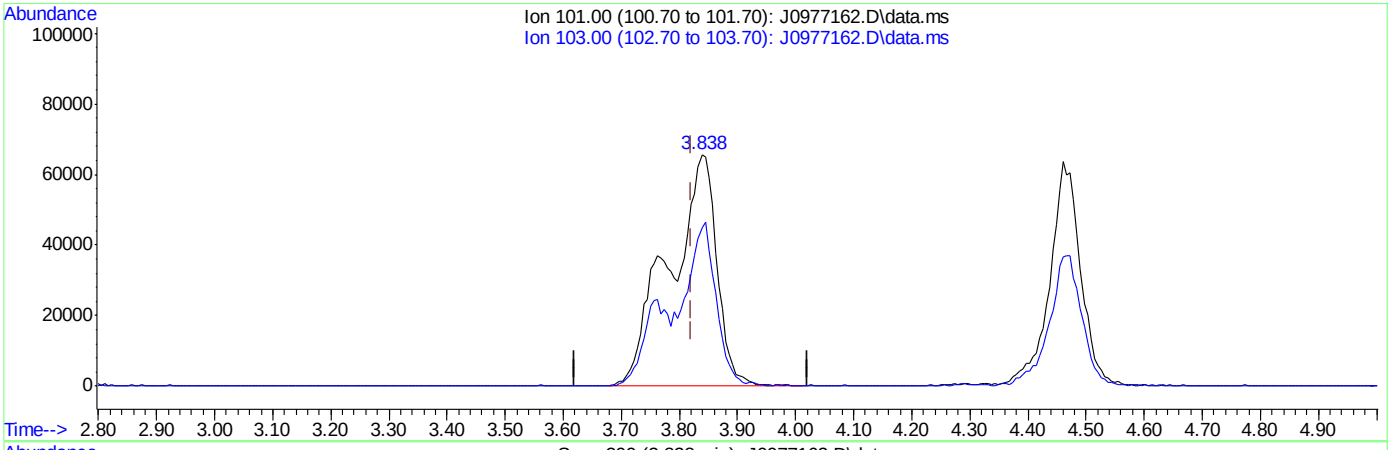
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	68.48
0.00	0.00	0.00
0.00	0.00	0.00

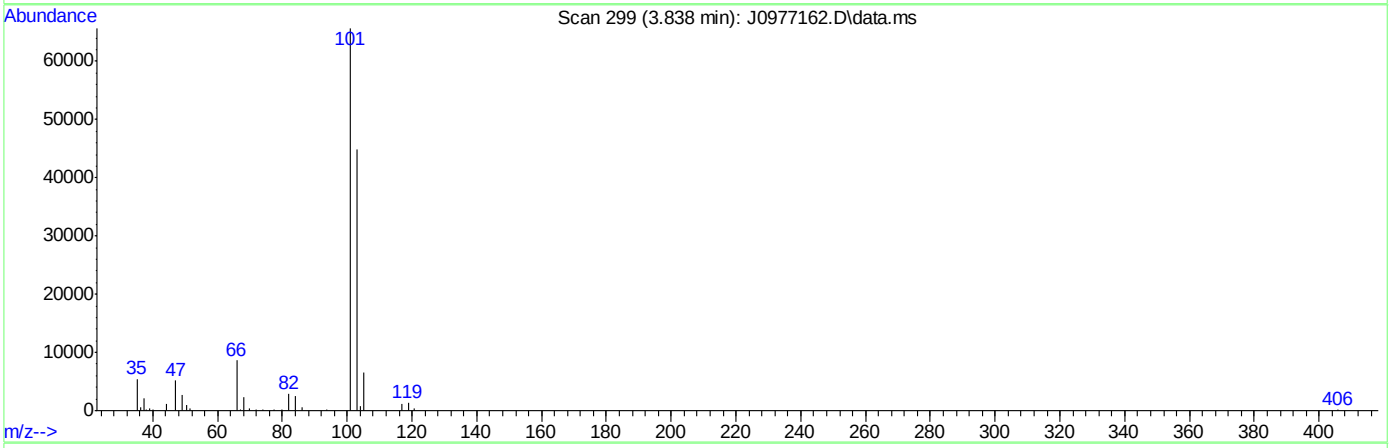
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977162.D
Acq On : 14 Jun 2016 11:35 am
Operator : darshnap
Sample : ic5333-6 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 12:22:38 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977162.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.017) 69.90ug/L m

response 370117

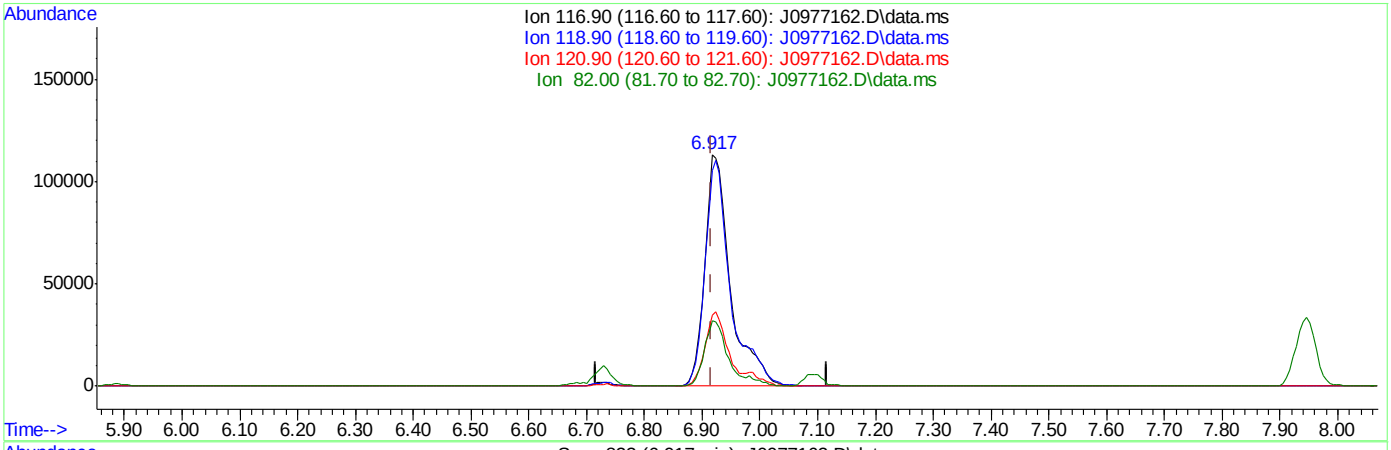
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	68.48
0.00	0.00	0.00
0.00	0.00	0.00

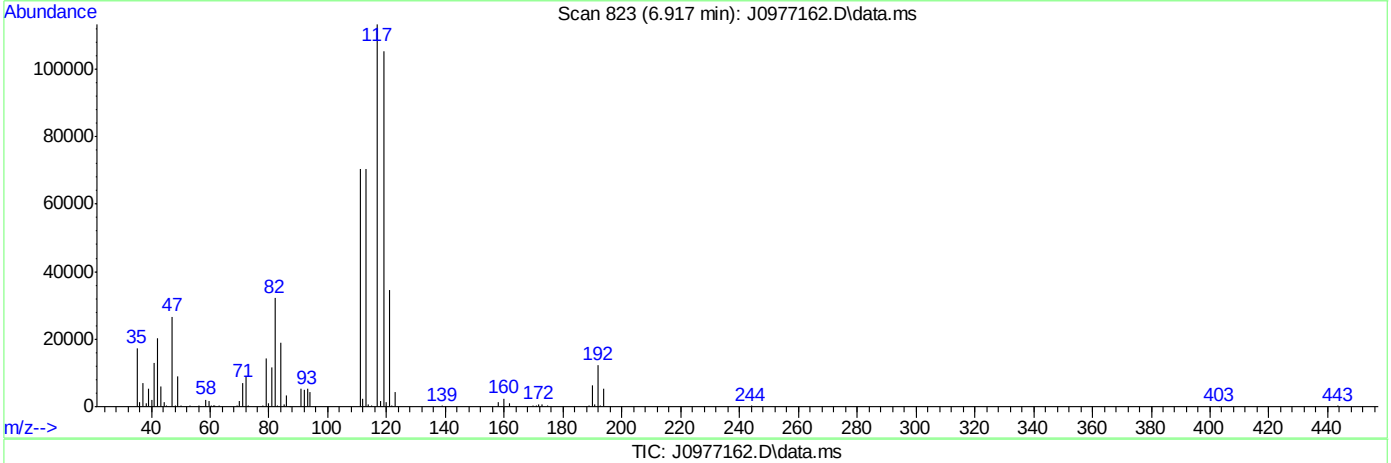
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977162.D
Acq On : 14 Jun 2016 11:35 am
Operator : darshnap
Sample : ic5333-6 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 12:22:38 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977162.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 75.65ug/L

response 353475

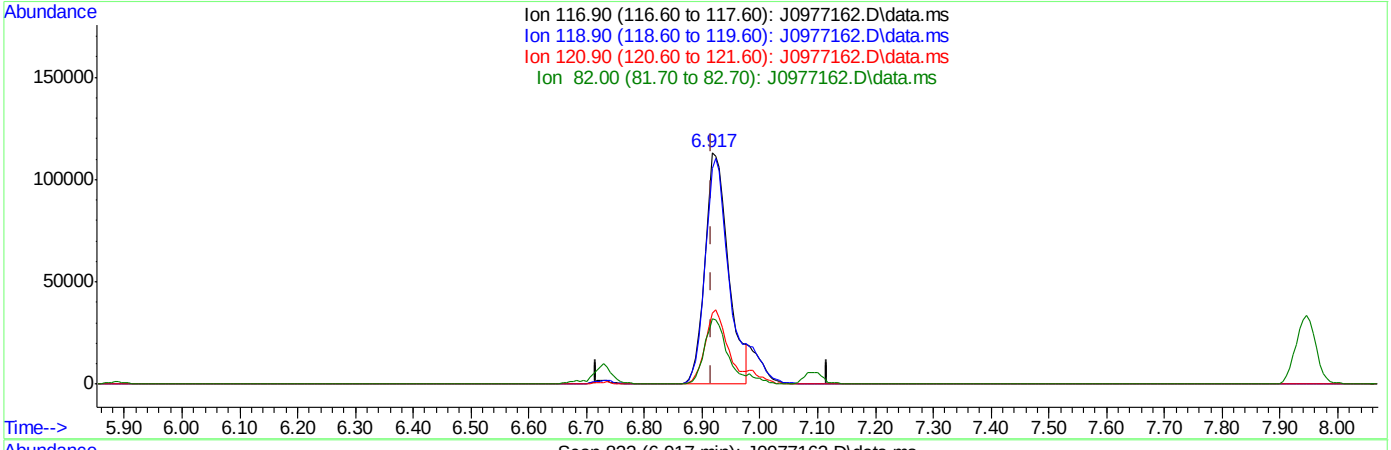
Ion	Exp%	Act%
116.90	100	100
118.90	89.90	93.08
120.90	31.00	30.49
82.00	24.80	28.41

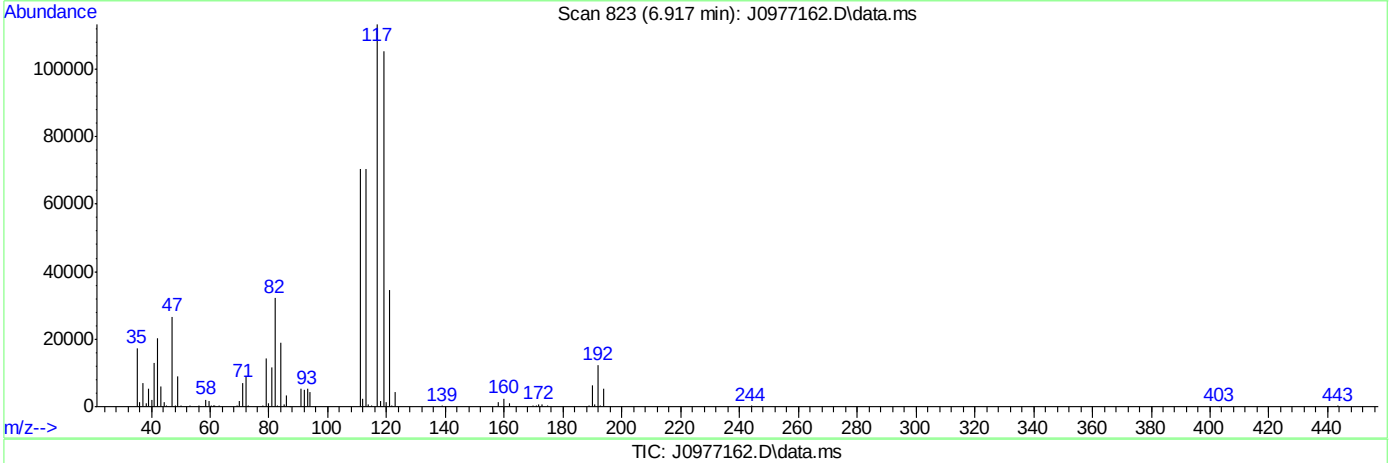
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977162.D
Acq On : 14 Jun 2016 11:35 am
Operator : darshnap
Sample : ic5333-6 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 12:22:38 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977162.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 69.20ug/L m

response 320981

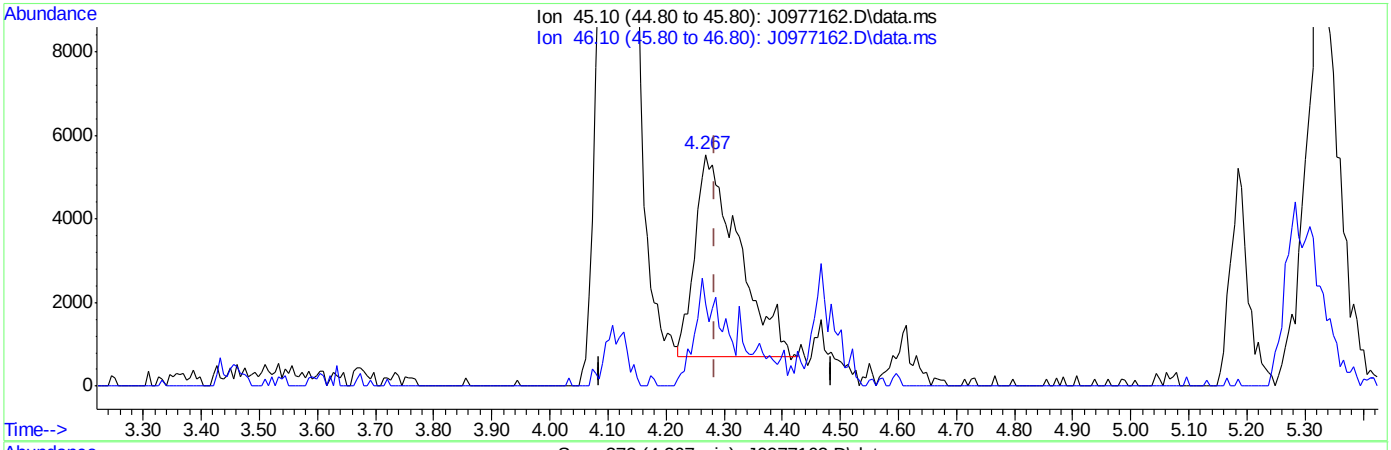
Ion	Exp%	Act%
116.90	100	100
118.90	89.90	93.08
120.90	31.00	30.49
82.00	24.80	28.41

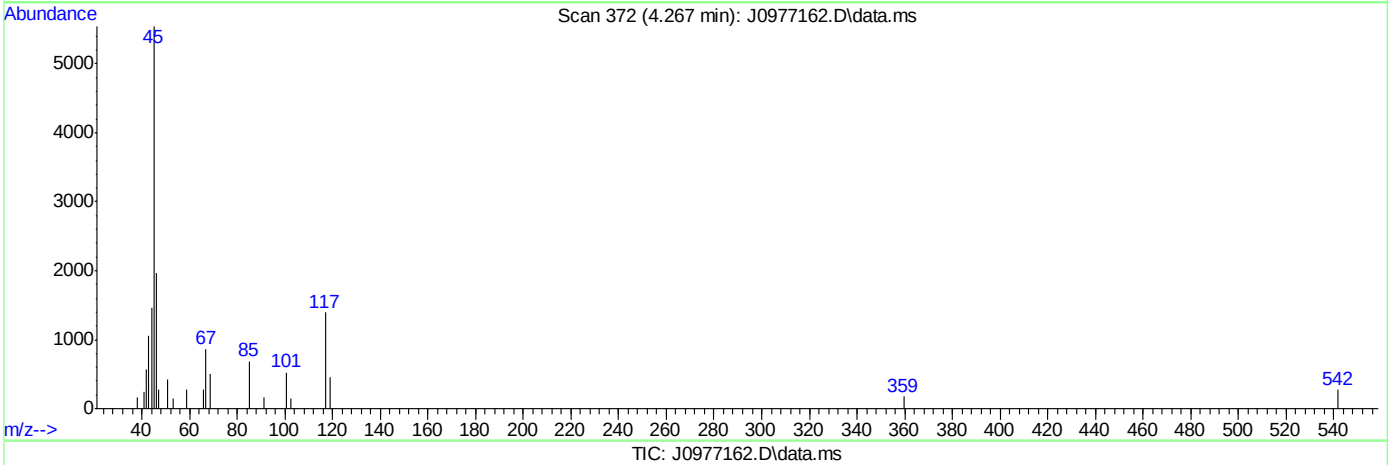
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977162.D
Acq On : 14 Jun 2016 11:35 am
Operator : darshnap
Sample : ic5333-6 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 12:22:38 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977162.D\data.ms

(107) Ethanol

4.267min (-0.018) 877.15ug/L

response 24873

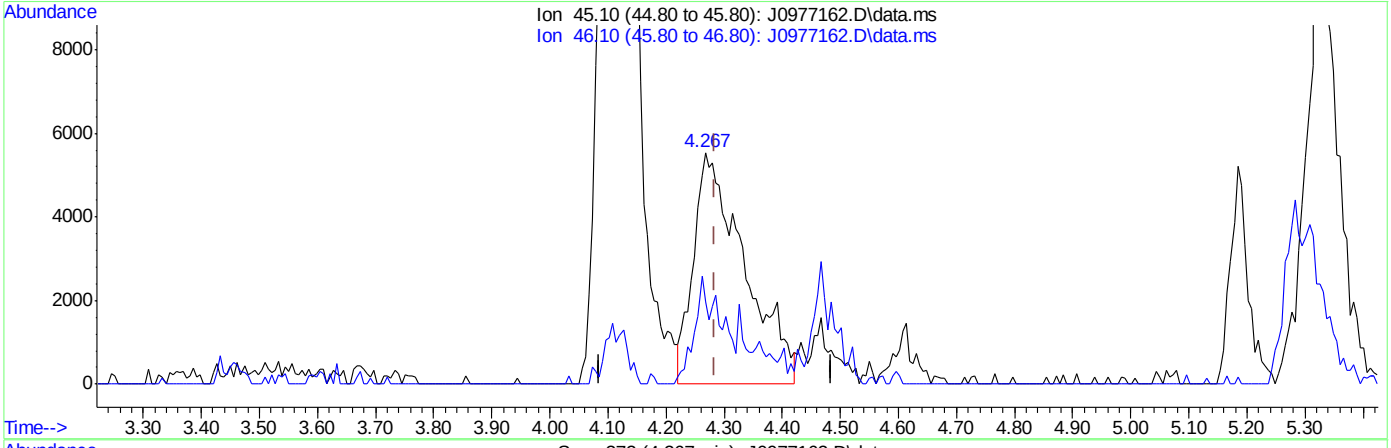
Ion	Exp%	Act%
45.10	100	100
46.10	24.70	37.12
0.00	0.00	0.00
0.00	0.00	0.00

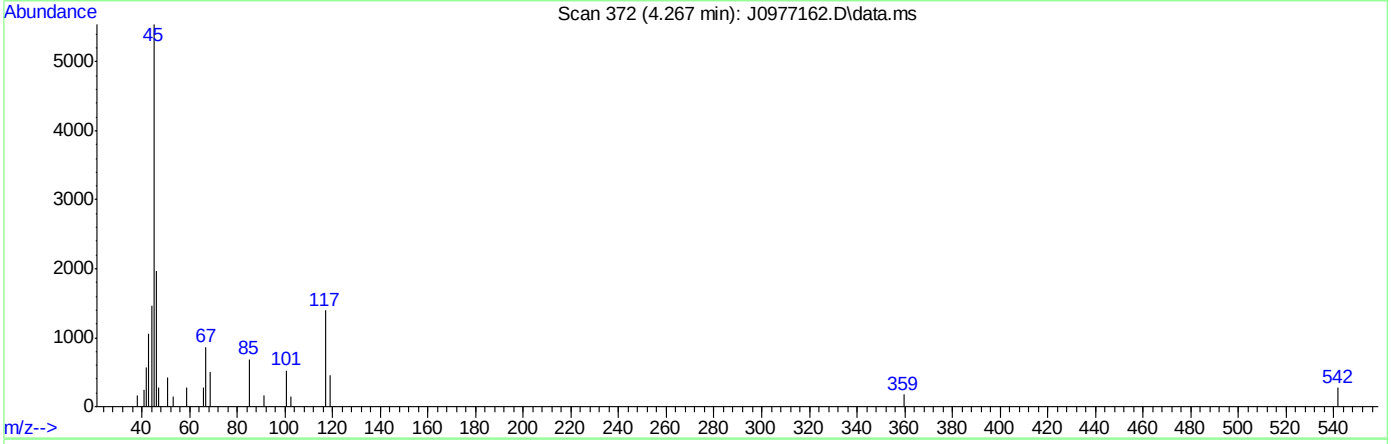
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977162.D
Acq On : 14 Jun 2016 11:35 am
Operator : darshnap
Sample : ic5333-6 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 14 12:22:38 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977162.D\data.ms

(107) Ethanol

4.267min (-0.018) 1212.45ug/L m

response 33406

Ion	Exp%	Act%
45.10	100	100
46.10	24.70	35.46
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

J0977163.D

Manual Integrations APPROVED (compounds with "m" flag)

Juan Garcia
06/15/16 16:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977163.D
Acq On : 14 Jun 2016 11:58 am
Operator : darshnap
Sample : ic5333-7 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 12:23:45 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	629820	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	492169	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	272315	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	47093	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	156021	50.05	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.10%			
46) 1,2-Dichloroethane-d4	7.470	65	199783	51.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.52%			
57) Toluene-d8	9.291	98	638492	48.55	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.10%			
79) 4-Bromofluorobenzene	12.041	95	252742	48.66	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.687	85	271514	71.06	ug/L	88
3) Chloromethane	2.904	50	469383	86.85	ug/L	98
4) Vinyl Chloride	3.051	62	419543	91.57	ug/L	91
5) 1,3-Butadiene	3.033	54	276039	110.74	ug/L	94
6) Bromomethane	3.462	94	247740	107.44	ug/L	96
7) Chloroethane	3.603	64	161994	Below Cal		95
8) Trichlorofluoromethane	3.838	101	534372m	96.78	ug/L	
9) Ethyl Ether	4.115	59	307797	101.09	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.350	67	418678	98.72	ug/L	97
11) 1,1-Dichloroethene	4.391	61	577512	100.14	ug/L	98
12) Freon 113	4.461	101	343665	94.73	ug/L	99
13) Carbon Disulfide	4.467	76	1234076	99.28	ug/L	98
14) Iodomethane	4.579	142	583928	98.68	ug/L	96
15) Allyl chloride	4.914	41	589386	98.93	ug/L	96
16) Methylene Chloride	5.037	49	547408	103.98	ug/L	97
17) Acetone	5.061	58	118148	483.81	ug/L #	84
18) Methyl acetate	5.184	74	216296	523.54	ug/L	98
19) trans-1,2-Dichloroethene	5.219	61	513655	99.55	ug/L	96
20) Hexane	5.290	56	342245	96.41	ug/L	92
21) Methyl Tert Butyl Ether	5.331	73	987052	99.11	ug/L	88
22) Acetonitrile	5.578	40	175427	921.93	ug/L	88
23) Di-isopropyl ether	5.707	45	1371571	101.64	ug/L	99
24) Chloroprene	5.860	53	626569	101.68	ug/L	96
25) 1,1-Dichloroethane	5.889	63	662576	100.42	ug/L	97
26) Acrylonitrile	5.912	53	543019	494.06	ug/L	99
27) ETBE	6.106	59	1278483	100.02	ug/L	98
28) Vinyl acetate	6.101	43	3374276	487.66	ug/L	100
29) cis-1,2-Dichloroethene	6.465	96	385704	96.61	ug/L	95
30) 2,2-Dichloropropane	6.600	77	496737	98.97	ug/L	96
31) Bromochloromethane	6.676	128	167779	94.78	ug/L	98
32) Cyclohexane	6.723	56	695395	96.10	ug/L	95
33) Chloroform	6.729	83	669607	99.25	ug/L	98
34) Ethyl acetate	6.794	43	1332782	515.87	ug/L	99

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977163.D
Acq On : 14 Jun 2016 11:58 am
Operator : darshnap
Sample : ic5333-7 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 12:23:45 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.911	42	79151	99.68	ug/L	97
37) Carbon Tetrachloride	6.923	117	475618m	95.51	ug/L	
38) 1,1,1-Trichloroethane	6.982	97	582749	99.77	ug/L	98
39) 2-Butanone	7.011	43	572707	486.60	ug/L	98
40) 1,1-Dichloropropene	7.093	75	468202	97.09	ug/L	97
41) tert-Butyl Formate	7.182	59	2794688	1186.75	ug/L	89
42) Propionitrile	7.323	54	371344	992.70	ug/L	87
43) Methacrylonitrile	7.352	41	1706304	1036.63	ug/L	97
44) Benzene	7.346	78	1450906	100.08	ug/L	98
45) TAME	7.423	73	1004799	97.35	ug/L	95
47) 1,2-Dichloroethane	7.534	62	480823	102.46	ug/L	99
48) Trichloroethene	7.922	95	364414	100.59	ug/L	97
49) Methylcyclohexane	7.945	83	657057	100.97	ug/L	99
50) Dibromomethane	8.345	93	196126	99.11	ug/L	97
51) 1,2-Dichloropropane	8.439	63	383700	100.17	ug/L	97
52) Bromodichloromethane	8.480	83	480386	101.09	ug/L	95
53) Methyl methacrylate	8.580	41	261366	99.05	ug/L	99
54) 2-Chloroethyl vinyl ether	8.997	63	1052725	532.87	ug/L	96
55) cis-1,3-Dichloropropene	9.097	75	565680	101.70	ug/L	99
58) Toluene	9.344	91	1493285	96.29	ug/L	100
59) 2-Nitropropane	9.544	41	374683	494.65	ug/L	99
60) 4-Methyl-2-pentanone	9.661	43	1421189	470.73	ug/L	100
61) trans-1,3-Dichloropropene	9.726	75	477577	96.91	ug/L	95
62) Tetrachloroethene	9.743	166	396275	101.14	ug/L	99
63) Ethyl methacrylate	9.826	69	407363	93.87	ug/L	98
64) 1,1,2-Trichloroethane	9.890	83	250473	96.59	ug/L	97
65) Dibromochloromethane	10.090	129	322522	96.66	ug/L	94
66) 1,3-Dichloropropane	10.172	76	505041	92.37	ug/L	97
67) 1,2-Dibromoethane	10.349	107	279285	93.21	ug/L	99
68) 2-hexanone	10.478	43	1008782	492.73	ug/L	96
69) 1-Chlorohexane	10.783	91	489833	98.71	ug/L	95
70) Ethylbenzene	10.848	91	1788907	99.71	ug/L	97
71) Chlorobenzene	10.854	112	998348	99.05	ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.901	131	332250	92.66	ug/L	94
73) m,p-Xylene	10.989	91	2665649	200.29	ug/L	91
74) o-Xylene	11.424	91	1408300	95.39	ug/L	99
75) Styrene	11.471	104	1088850	98.26	ug/L	98
76) Bromoform	11.535	173	191783	90.78	ug/L	95
77) Isopropylbenzene	11.729	105	1632937	95.01	ug/L	98
80) cis-1,4-Dichloro-2-butene	12.076	53	77299	75.46	ug/L	95
81) n-Propylbenzene	12.146	91	2019898	102.63	ug/L	97
82) Bromobenzene	12.170	156	434959	99.22	ug/L	92
83) 1,1,2,2-Tetrachloroethane	12.205	83	359690	91.64	ug/L	100
84) 1,3,5-Trimethylbenzene	12.329	105	1534560	99.27	ug/L	95
85) 2-Chlorotoluene	12.340	91	1447918	105.94	ug/L	99
86) trans-1,4-Dichloro-2-B...	12.387	53	77667	80.91	ug/L	97
87) 1,2,3-Trichloropropane	12.370	110	91115	100.74	ug/L	91
88) Cyclohexanone	12.434	55	53800	405.52	ug/L	98
89) 4-Chlorotoluene	12.505	91	1309196	101.22	ug/L	100
90) a-Methyl Styrene	12.593	118	820669	106.89	ug/L	99

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977163.D
Acq On : 14 Jun 2016 11:58 am
Operator : darshnap
Sample : ic5333-7 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 12:23:45 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.675	91	851504	96.31	ug/L	97
92)	1,2,4-Trimethylbenzene	12.740	105	1510788	102.98	ug/L	96
93)	Pentachloroethane	12.722	167	247001	94.68	ug/L	96
94)	sec-Butylbenzene	12.857	105	1790422	99.49	ug/L	98
95)	4-Isopropyltoluene	12.987	119	1527872	100.50	ug/L	100
96)	1,3-Dichlorobenzene	13.122	146	838962	97.93	ug/L	97
97)	1,4-Dichlorobenzene	13.210	146	874538	99.66	ug/L	97
98)	n-Butylbenzene	13.421	92	923603	105.18	ug/L	96
99)	Benzyl Chloride	13.433	126	132055	94.81	ug/L	95
100)	1,2-Dichlorobenzene	13.633	146	787760	94.38	ug/L	99
101)	1,2-Dibromo-3-Chloropr...	14.367	75	51190	89.35	ug/L	96
102)	Hexachlorobutadiene	14.914	225	288888	97.79	ug/L	97
103)	1,2,4-Trichlorobenzene	14.961	180	532428	96.54	ug/L	100
104)	Naphthalene	15.243	128	728624	89.86	ug/L	96
105)	1,2,3-Trichlorobenzene	15.413	180	418001	90.70	ug/L	95
107)	Ethanol	4.273	45	54322m	1899.35	ug/L	
108)	acrolein	4.749	56	251497	596.82	ug/L	92
109)	Tert Butyl Alcohol	5.372	59	247020	947.12	ug/L	93
110)	tert Amyl alcohol	7.564	59	205976	1054.86	ug/L	93
111)	Isobutyl alcohol	7.440	42	183274	2049.05	ug/L	98
112)	1,4-Dioxane	8.662	88	38498	1591.07	ug/L	82
113)	3,3-Dimethyl-1-butanol	10.425	57	1193030	5060.32	ug/L	97

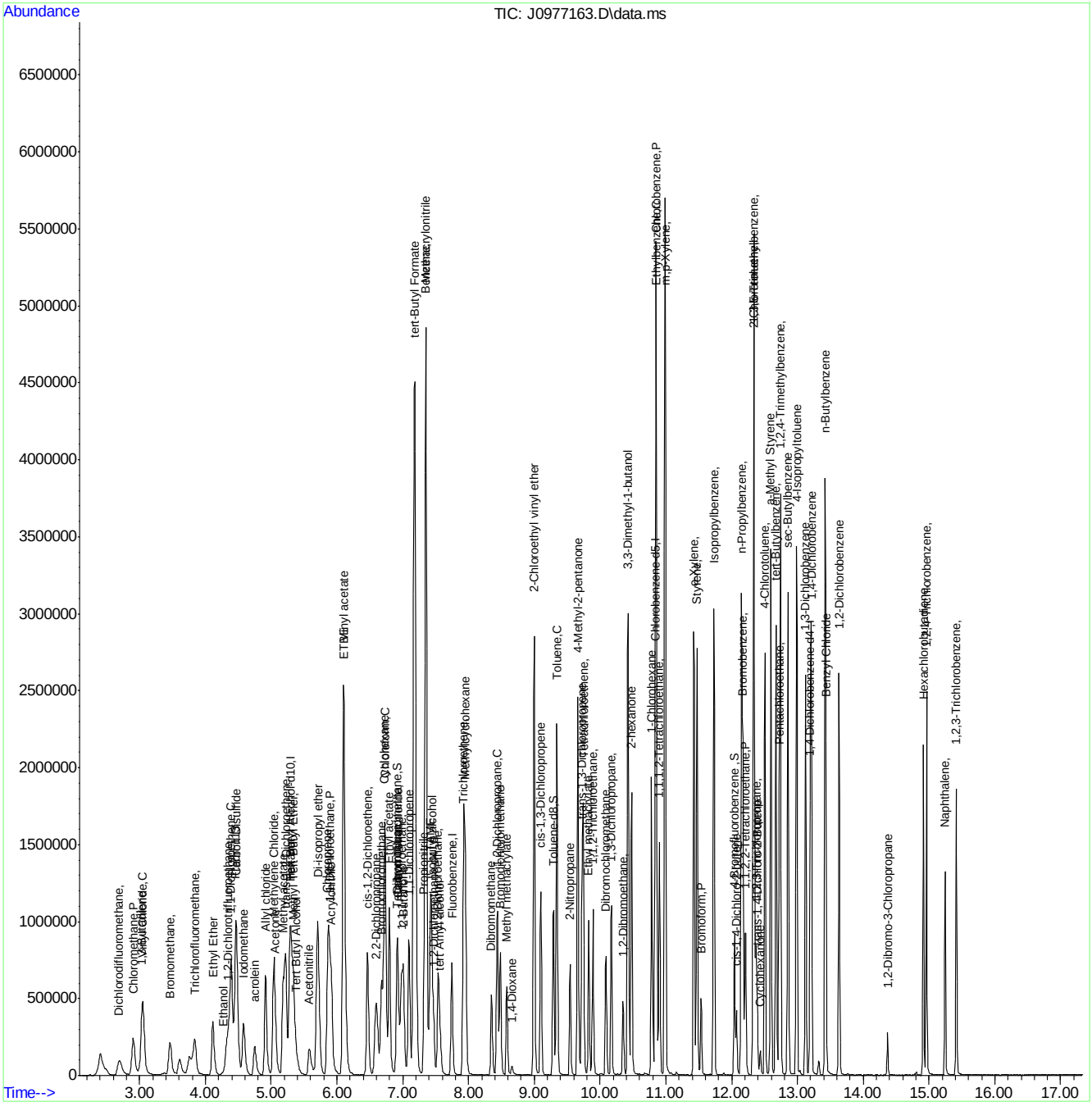
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977163.D
Acq On : 14 Jun 2016 11:58 am
Operator : darshnap
Sample : ic5333-7 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 12:23:45 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration



SGS ACCUTEST FA34748

Manual Integration Approval Summary

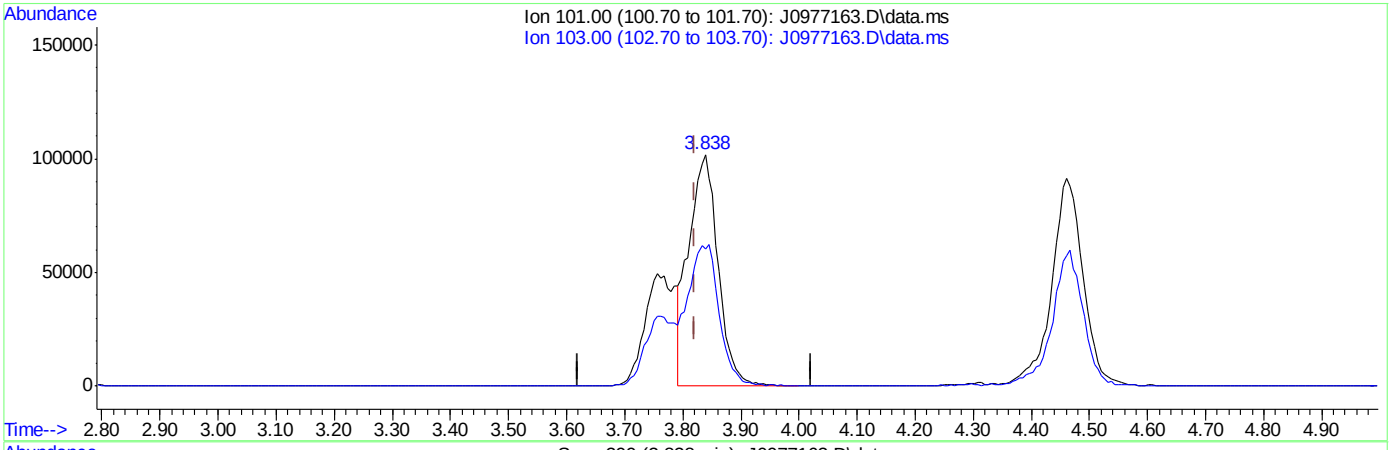
Sample Number:	VJ5333-IC5333	**Method:**	SW846 8260B
Lab FileID:	J0977163.D	**Analyst approved:**	06/15/16 07:59 Darshna Patel
Injection Time:	06/14/16 11:58	**Supervisor approved:**	06/15/16 16:05 Juan Garcia

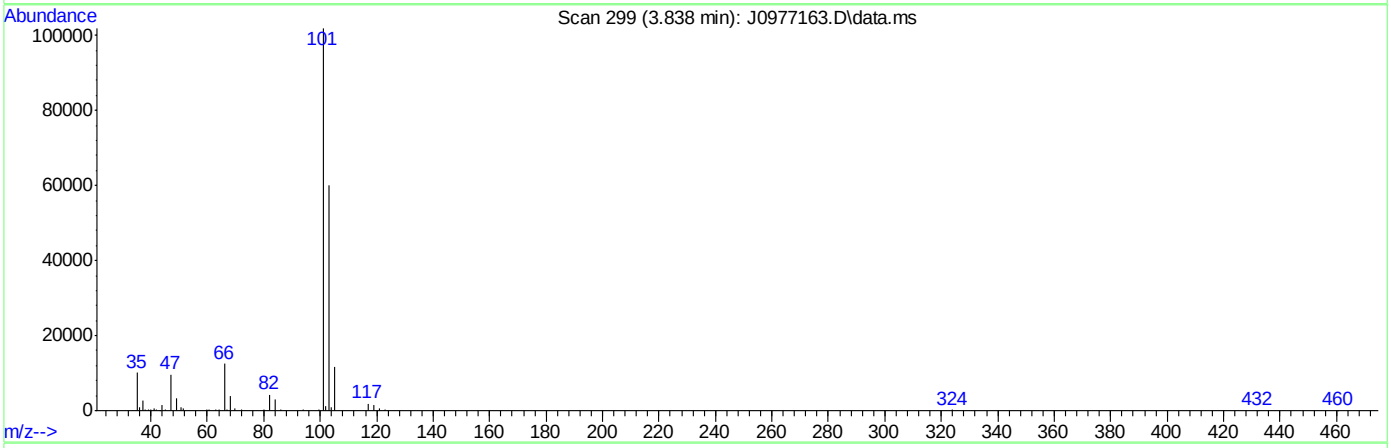
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977163.D
Acq On : 14 Jun 2016 11:58 am
Operator : darshnap
Sample : ic5333-7 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 12:22:41 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.838min (+0.017) 63.93ug/L

response 352991

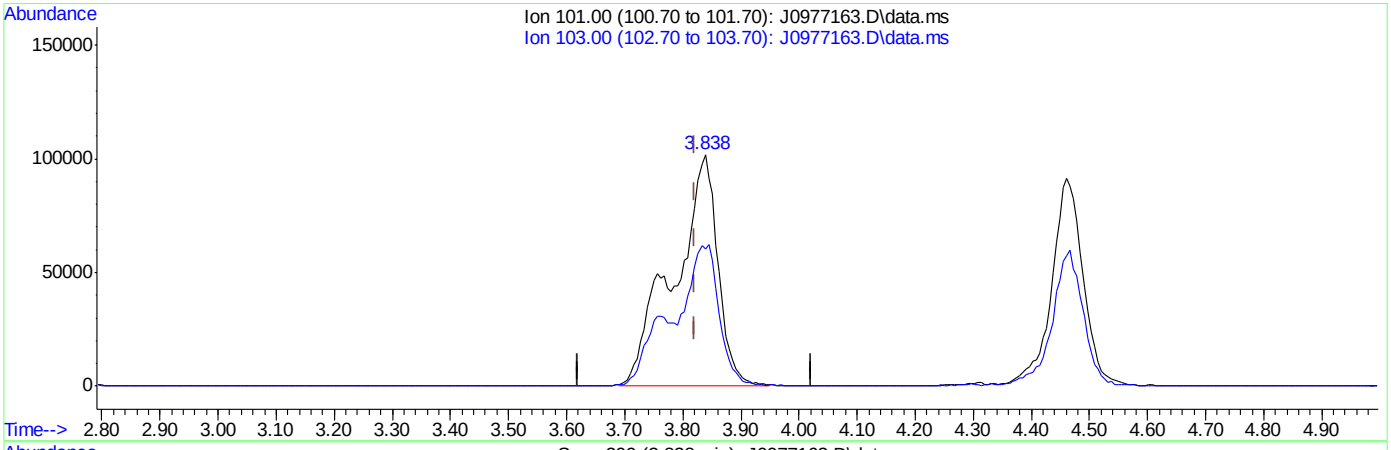
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	59.09
0.00	0.00	0.00
0.00	0.00	0.00

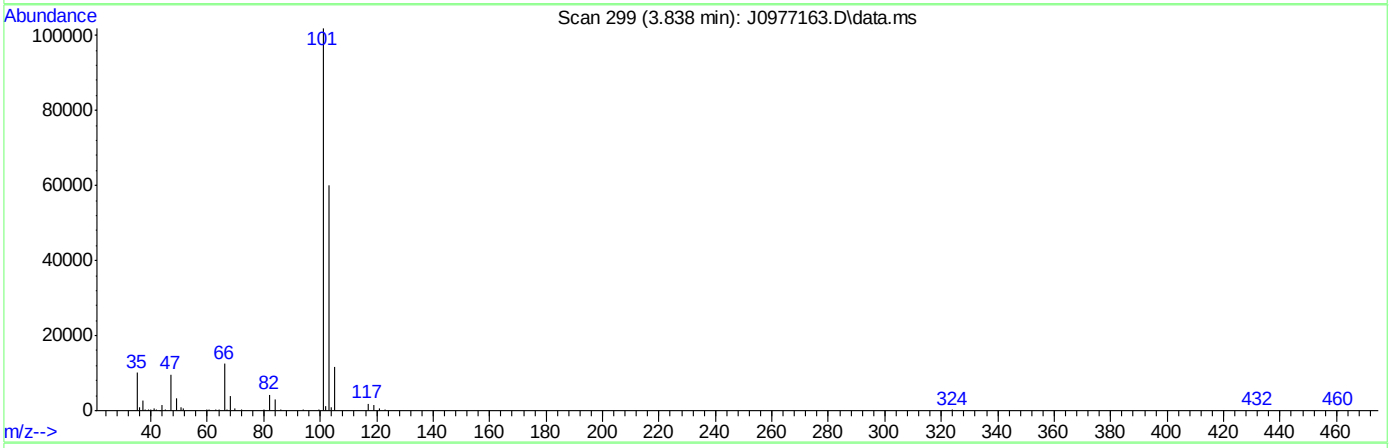
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977163.D
Acq On : 14 Jun 2016 11:58 am
Operator : darshnap
Sample : ic5333-7 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 12:22:41 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977163.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.017) 96.78ug/L m

response 534372

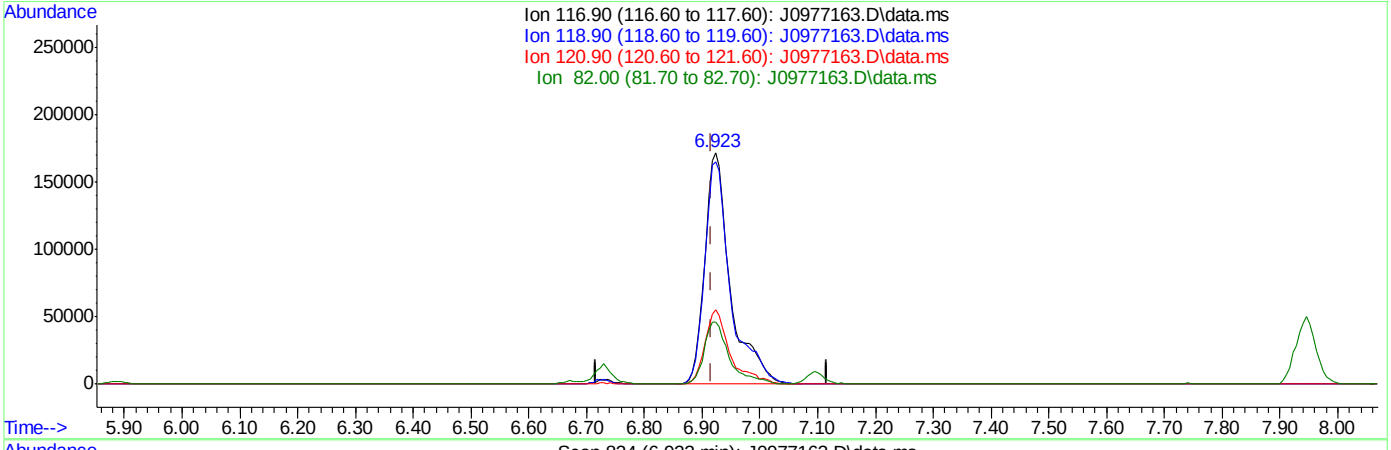
Ion	Exp%	Act%
101.00	100	100
103.00	69.60	59.09
0.00	0.00	0.00
0.00	0.00	0.00

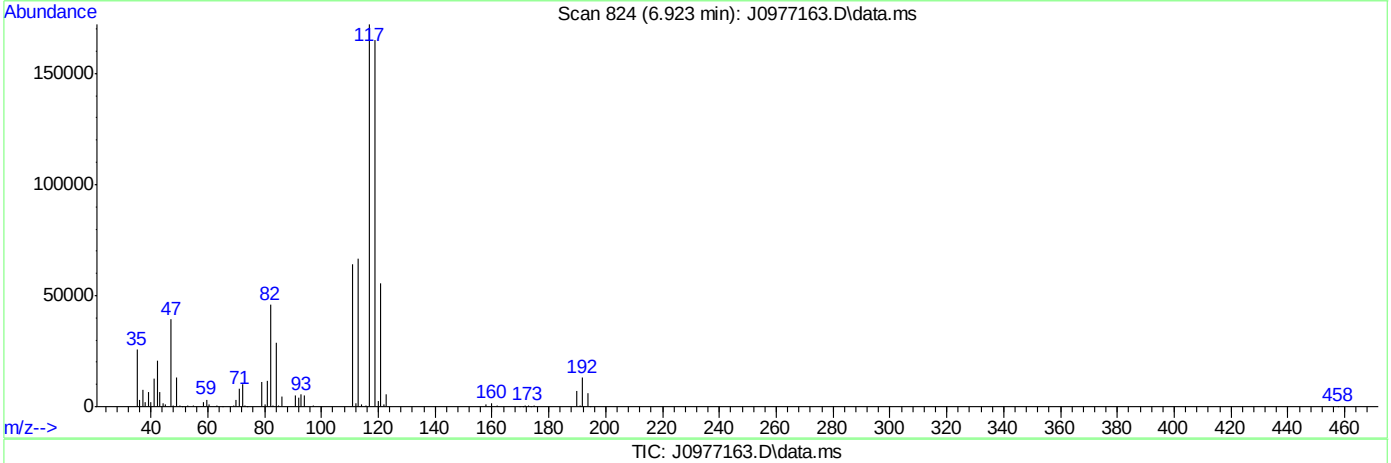
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977163.D
Acq On : 14 Jun 2016 11:58 am
Operator : darshnap
Sample : ic5333-7 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 12:22:41 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977163.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 106.63ug/L

response 537433

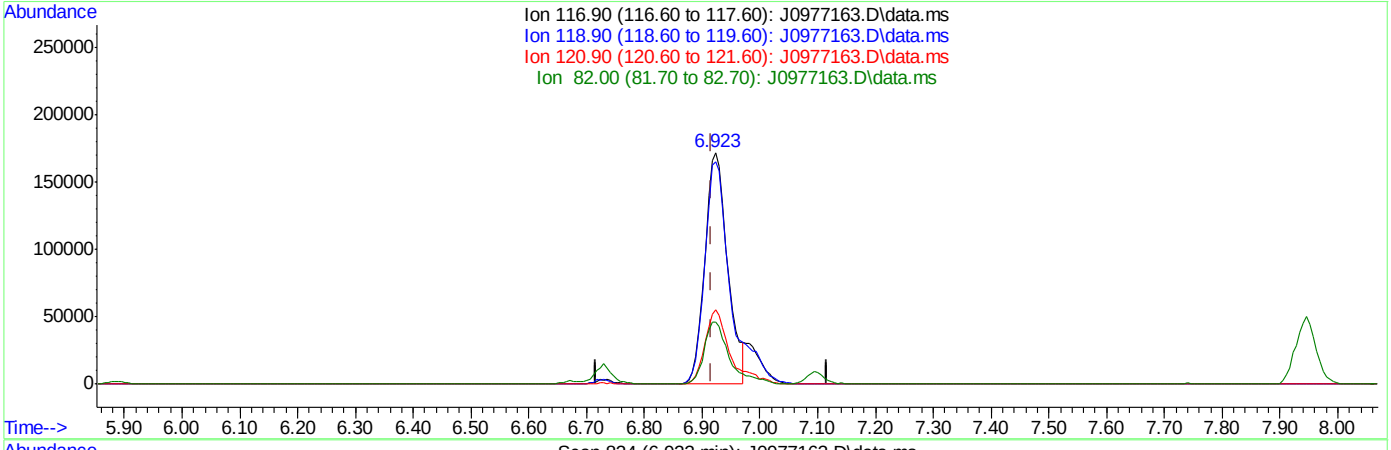
Ion	Exp%	Act%
116.90	100	100
118.90	89.90	95.91
120.90	31.00	32.33
82.00	24.80	26.68

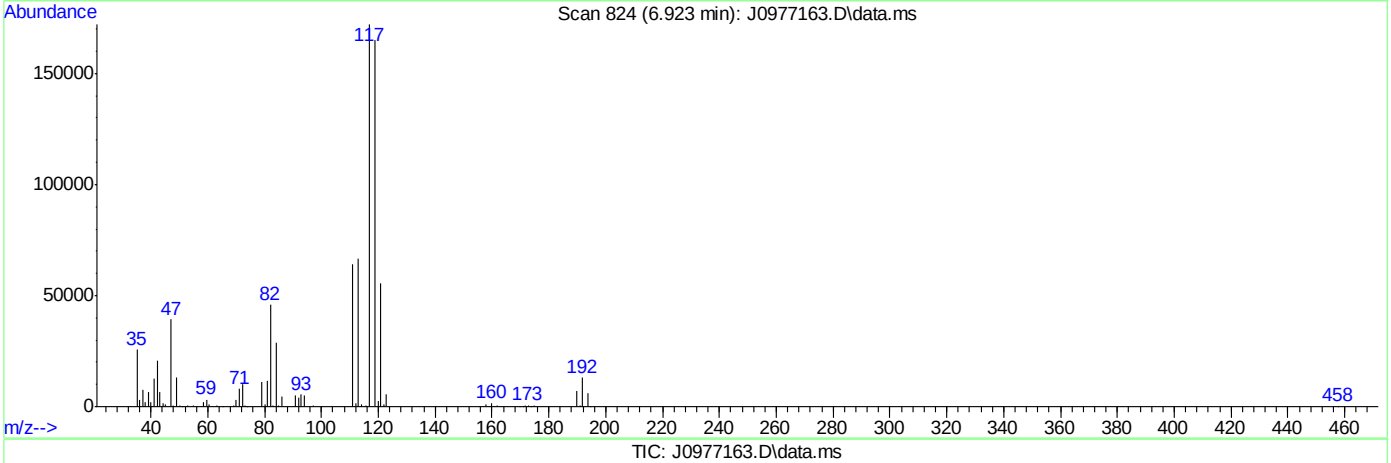
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977163.D
Acq On : 14 Jun 2016 11:58 am
Operator : darshnap
Sample : ic5333-7 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 12:22:41 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977163.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 95.51ug/L m

response 475618

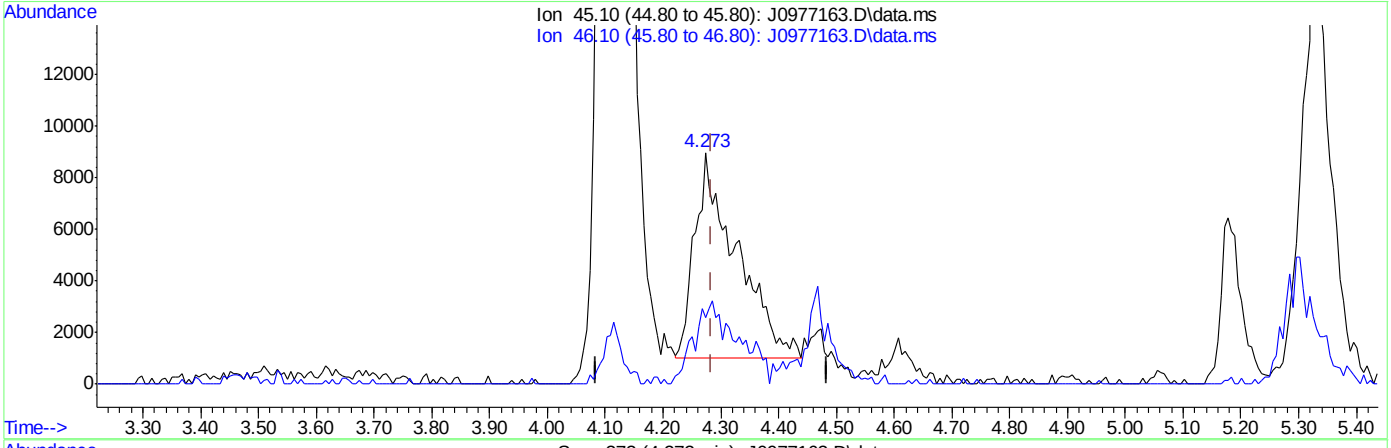
Ion	Exp%	Act%
116.90	100	100
118.90	89.90	95.91
120.90	31.00	32.33
82.00	24.80	26.68

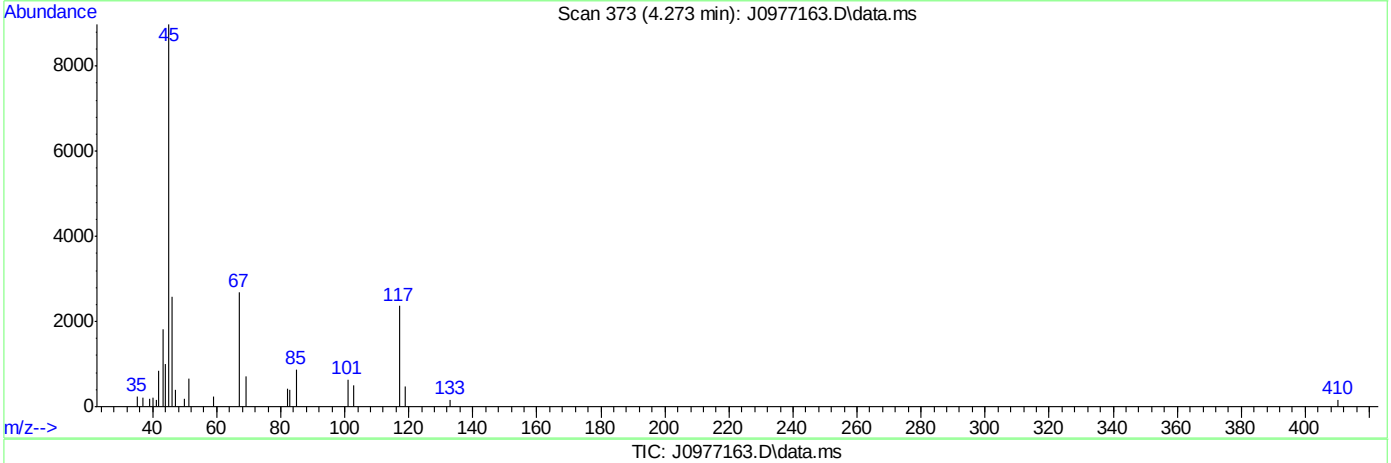
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977163.D
Acq On : 14 Jun 2016 11:58 am
Operator : darshnap
Sample : ic5333-7 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 12:22:41 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977163.D\data.ms

(107) Ethanol

4.273min (-0.012) 1327.86ug/L

response 39986

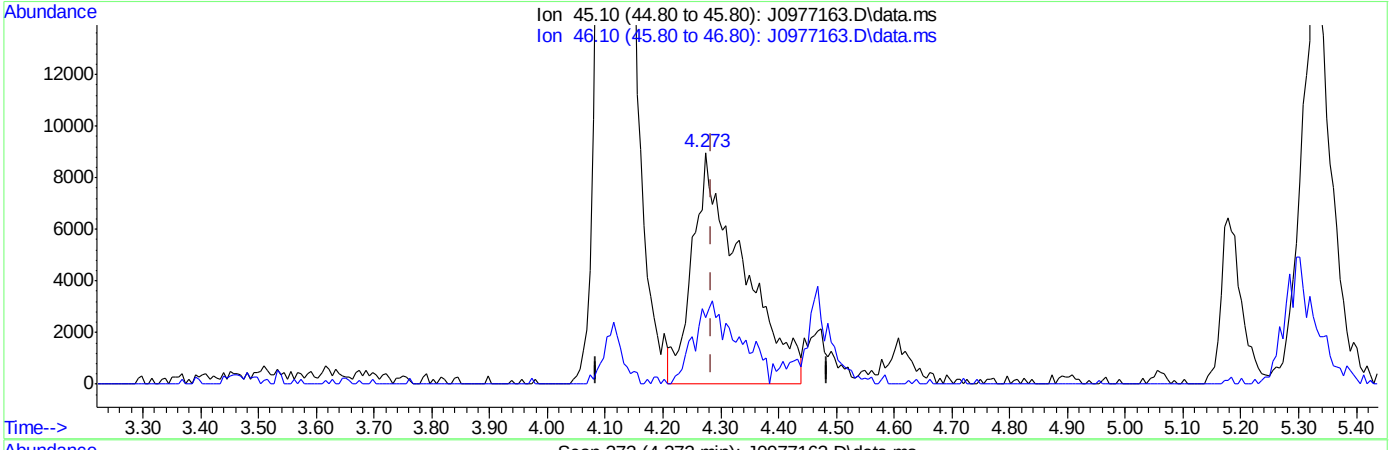
Ion	Exp%	Act%
45.10	100	100
46.10	24.70	28.57
0.00	0.00	0.00
0.00	0.00	0.00

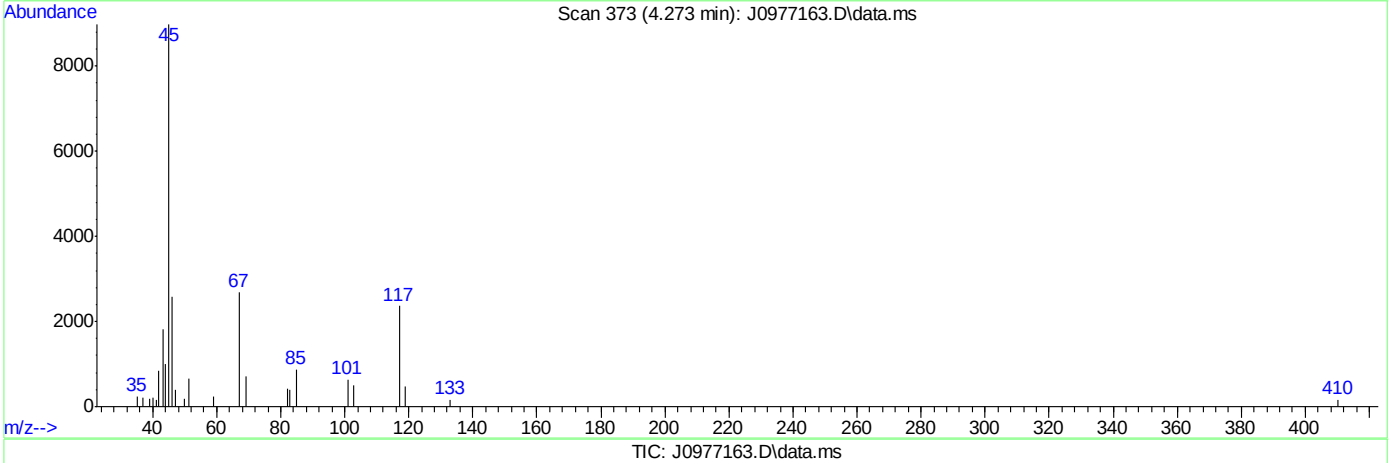
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977163.D
Acq On : 14 Jun 2016 11:58 am
Operator : darshnap
Sample : ic5333-7 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 14 12:22:41 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 07 13:43:43 2016
Response via : Initial Calibration





TIC: J0977163.D\data.ms

(107) Ethanol

4.273min (-0.012) 1899.35ug/L m

response 54322

Ion	Exp%	Act%
45.10	100	100
46.10	24.70	28.78
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/15/16 16:05

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977165.D
Acq On : 14 Jun 2016 12:58 pm
Operator : darshnap
Sample : icv5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 13:17:53 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:10:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	601122	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	453092	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	259728	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.296	65	47607	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	149201	50.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.80%			
46) 1,2-Dichloroethane-d4	7.464	65	190335	50.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.76%			
57) Toluene-d8	9.285	98	601658	49.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.92%			
79) 4-Bromofluorobenzene	12.041	95	238881	49.23	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.693	85	164259	62.82	ug/L	87
3) Chloromethane	2.892	50	237047	51.33	ug/L	99
4) Vinyl Chloride	3.034	62	199368	47.26	ug/L	91
5) 1,3-Butadiene	3.010	54	16640	5.99	ug/L	95
6) Bromomethane	3.451	94	122574	43.67	ug/L	95
7) Chloroethane	3.603	64	101467	45.49	ug/L	94
8) Trichlorofluoromethane	3.827	101	234353m	44.48	ug/L	
9) Ethyl Ether	4.109	59	108021	36.97	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.356	67	178937	46.93	ug/L	94
11) 1,1-Dichloroethene	4.385	61	220705	41.59	ug/L	97
12) Freon 113	4.455	101	120381	36.82	ug/L	91
13) Carbon Disulfide	4.461	76	415592	36.33	ug/L	97
14) Iodomethane	4.573	142	201245	36.34	ug/L	96
15) Allyl chloride	4.908	41	198438	38.61	ug/L	99
16) Methylene Chloride	5.031	49	209532	39.20	ug/L	94
17) Acetone	5.055	58	42852	200.41	ug/L #	85
18) Methyl acetate	5.178	74	74541	193.62	ug/L #	85
19) trans-1,2-Dichloroethene	5.213	61	211194	42.78	ug/L	98
20) Hexane	5.284	56	122668	38.68	ug/L	98
21) Methyl Tert Butyl Ether	5.325	73	357042	38.60	ug/L	93
22) Acetonitrile	5.578	40	62839	393.26	ug/L	99
23) Di-isopropyl ether	5.701	45	493587	38.24	ug/L	98
24) Chloroprene	5.854	53	216761	41.41	ug/L	98
25) 1,1-Dichloroethane	5.883	63	253414	41.53	ug/L	95
26) Acrylonitrile	5.907	53	204143	201.27	ug/L	98
27) ETBE	6.101	59	446397	37.55	ug/L	98
28) Vinyl acetate	6.095	43	1261047	193.38	ug/L	99
29) cis-1,2-Dichloroethene	6.459	96	138450	37.74	ug/L	97
30) 2,2-Dichloropropane	6.588	77	200356	44.55	ug/L	99
31) Bromochloromethane	6.670	128	59760	38.51	ug/L	96
32) Cyclohexane	6.717	56	247588	39.12	ug/L	90
33) Chloroform	6.723	83	250769	40.23	ug/L	97
34) Ethyl acetate	6.794	43	500203	195.31	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977165.D
Acq On : 14 Jun 2016 12:58 pm
Operator : darshnap
Sample : icv5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 13:17:53 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:10:59 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	27234	37.91 ug/L	87
37) Carbon Tetrachloride	6.917	117	187158m	43.81 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	207223	39.37 ug/L	99
39) 2-Butanone	7.011	43	219008	201.98 ug/L	94
40) 1,1-Dichloropropene	7.088	75	171852	40.32 ug/L	97
41) tert-Butyl Formate	7.170	59	1159193	456.44 ug/L	97
42) Propionitrile	7.317	54	138629	419.03 ug/L	92
43) Methacrylonitrile	7.346	41	679198	408.87 ug/L	98
44) Benzene	7.340	78	537371	39.41 ug/L	97
45) TAME	7.423	73	349447	38.20 ug/L	99
47) 1,2-Dichloroethane	7.534	62	186029	40.51 ug/L	99
48) Trichloroethene	7.922	95	136916	39.20 ug/L	97
49) Methylcyclohexane	7.945	83	241885	40.49 ug/L	97
50) Dibromomethane	8.345	93	75089	39.63 ug/L	98
51) 1,2-Dichloropropane	8.433	63	141455	39.49 ug/L	93
52) Bromodichloromethane	8.480	83	178153	40.72 ug/L	99
53) Methyl methacrylate	8.580	41	102831	44.74 ug/L	92
54) 2-Chloroethyl vinyl ether	8.991	63	380810	195.53 ug/L	99
55) cis-1,3-Dichloropropene	9.097	75	207389	40.11 ug/L	94
58) Toluene	9.338	91	567465	39.02 ug/L	99
59) 2-Nitropropane	9.544	41	137837	211.54 ug/L	97
60) 4-Methyl-2-pentanone	9.661	43	532049	203.65 ug/L	99
61) trans-1,3-Dichloropropene	9.726	75	189214	45.33 ug/L	96
62) Tetrachloroethene	9.743	166	143329	41.11 ug/L	95
63) Ethyl methacrylate	9.826	69	125307	36.18 ug/L	97
64) 1,1,2-Trichloroethane	9.890	83	96652	40.20 ug/L	96
65) Dibromochloromethane	10.084	129	119898	41.54 ug/L	98
66) 1,3-Dichloropropane	10.166	76	182867	38.69 ug/L	94
67) 1,2-Dibromoethane	10.349	107	108866	42.85 ug/L	97
68) 2-hexanone	10.478	43	366131	199.87 ug/L	99
69) 1-Chlorohexane	10.783	91	176253	40.92 ug/L	97
70) Ethylbenzene	10.848	91	665942	39.64 ug/L	100
71) Chlorobenzene	10.854	112	370836	40.36 ug/L	95
72) 1,1,1,2-Tetrachloroethane	10.901	131	133171	41.70 ug/L	98
73) m,p-Xylene	10.983	91	1054232	82.28 ug/L	99
74) o-Xylene	11.424	91	523048	41.16 ug/L	99
75) Styrene	11.471	104	381529	40.26 ug/L	98
76) Bromoform	11.535	173	67958	40.13 ug/L	88
77) Isopropylbenzene	11.729	105	631827	44.23 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.076	53	30689	50.55 ug/L	89
81) n-Propylbenzene	12.147	91	786356	41.04 ug/L	99
82) Bromobenzene	12.170	156	159042	38.89 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.205	83	133873	38.95 ug/L	93
84) 1,3,5-Trimethylbenzene	12.329	105	555590	39.22 ug/L	100
85) 2-Chlorotoluene	12.340	91	529814	39.06 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.387	53	30555	49.13 ug/L #	80
87) 1,2,3-Trichloropropane	12.370	110	35216	40.30 ug/L	98
88) Cyclohexanone	12.434	55	15762	148.12 ug/L	96
89) 4-Chlorotoluene	12.505	91	499802	40.74 ug/L	99
90) a-Methyl Styrene	12.740	118	5255	0.78 ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977165.D
Acq On : 14 Jun 2016 12:58 pm
Operator : darshnap
Sample : icv5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 13:17:53 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:10:59 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.669	91	317694	40.40	ug/L	97
92)	1,2,4-Trimethylbenzene	12.740	105	564832	40.15	ug/L	98
93)	Pentachloroethane	12.722	167	96833	44.08	ug/L	95
94)	sec-Butylbenzene	12.857	105	700904	43.05	ug/L	99
95)	4-Isopropyltoluene	12.987	119	585111	42.92	ug/L	98
96)	1,3-Dichlorobenzene	13.122	146	321138	40.31	ug/L	97
97)	1,4-Dichlorobenzene	13.210	146	324570	39.55	ug/L	96
98)	n-Butylbenzene	13.422	92	338682	42.87	ug/L	92
99)	Benzyl Chloride	13.433	126	45676	40.29	ug/L	98
100)	1,2-Dichlorobenzene	13.633	146	299765	39.20	ug/L	98
101)	1,2-Dibromo-3-Chloropr...	14.367	75	18988	41.62	ug/L	86
102)	Hexachlorobutadiene	14.914	225	107832	41.63	ug/L	97
103)	1,2,4-Trichlorobenzene	14.961	180	195410	40.35	ug/L	97
104)	Naphthalene	15.243	128	302361	47.61	ug/L	98
105)	1,2,3-Trichlorobenzene	15.413	180	156540	41.27	ug/L	96
107)	Ethanol	4.273	45	20352m	718.20	ug/L	
108)	acrolein	4.737	56	103973	187.75	ug/L	92
109)	Tert Butyl Alcohol	5.360	59	89466	345.56	ug/L	97
110)	tert Amyl alcohol	7.558	59	71892	352.44	ug/L	92
111)	Isobutyl alcohol	7.440	42	67970	705.23	ug/L	92
112)	1,4-Dioxane	8.656	88	13721	667.97	ug/L	96
113)	3,3-Dimethyl-1-butanol	10.419	57	444200	1814.61	ug/L	98

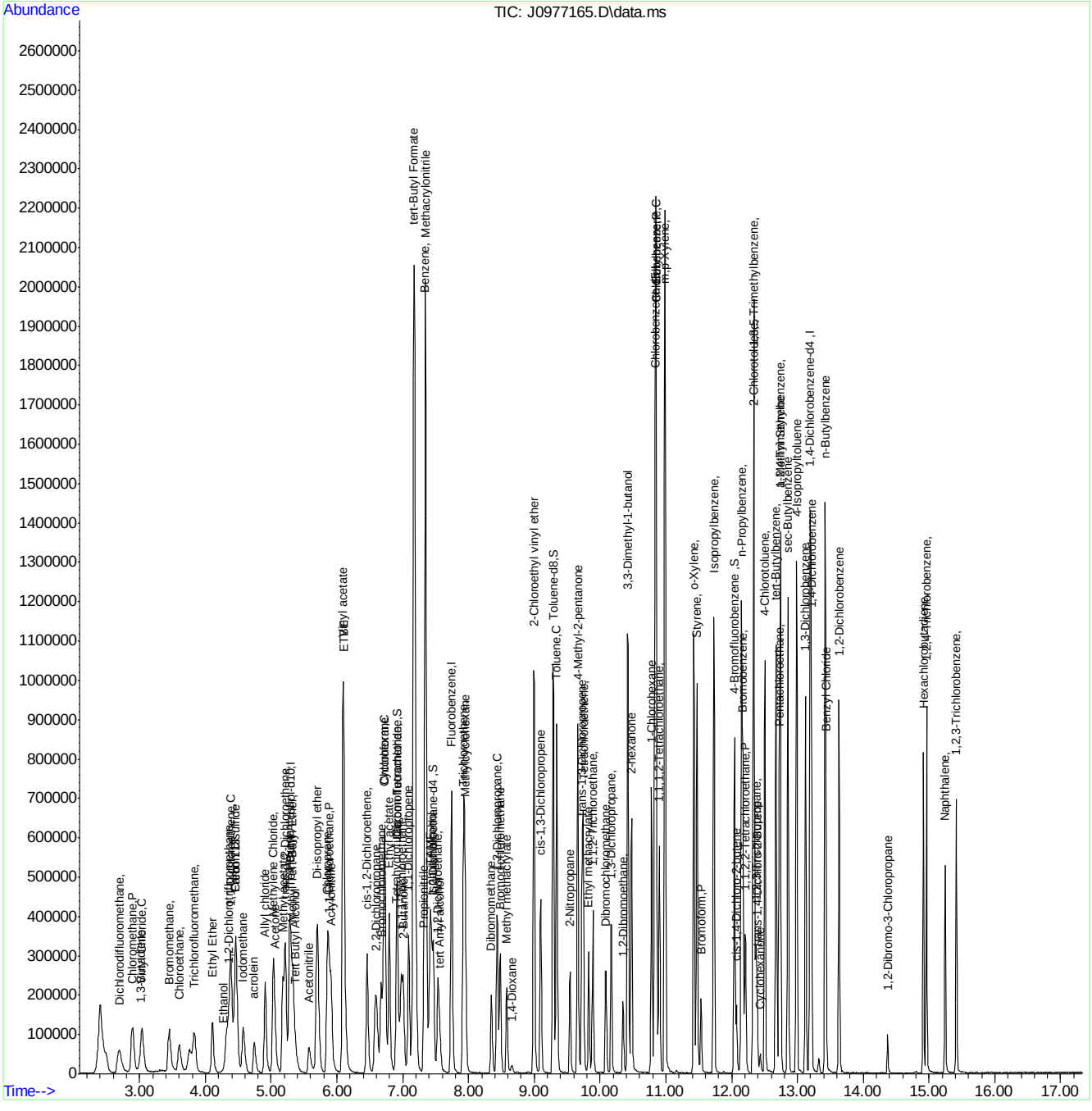
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977165.D
Acq On : 14 Jun 2016 12:58 pm
Operator : darshnap
Sample : icv5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 13:17:53 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:10:59 2016
Response via : Initial Calibration



SGS ACCUTEST FA34748

Manual Integration Approval Summary

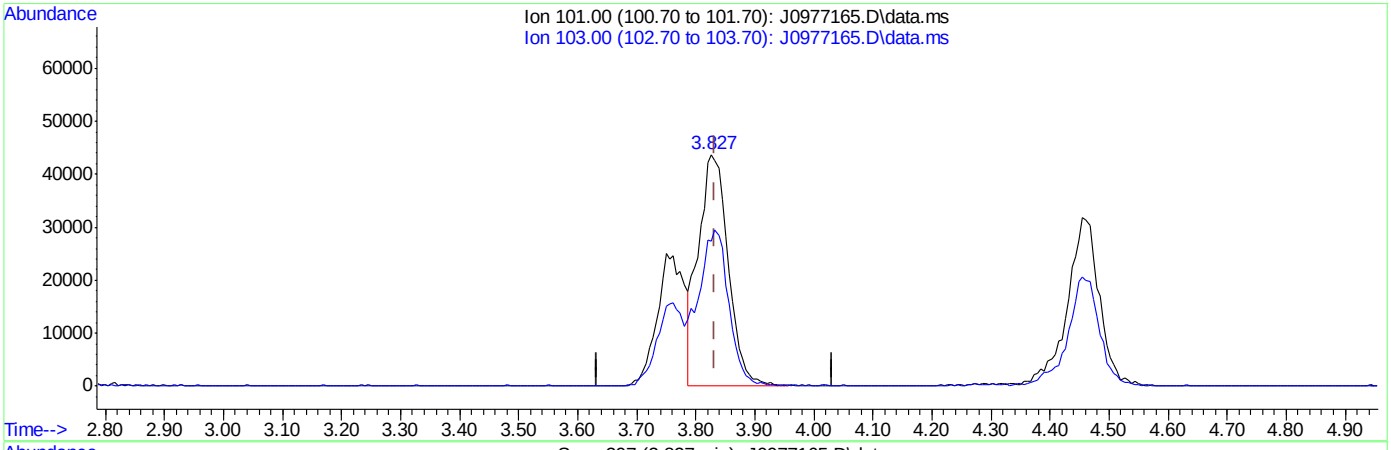
Sample Number:	VJ5333-ICV5333	**Method:**	SW846 8260B
Lab FileID:	J0977165.D	**Analyst approved:**	06/15/16 07:59 Darshna Patel
Injection Time:	06/14/16 12:58	**Supervisor approved:**	06/15/16 16:05 Juan Garcia

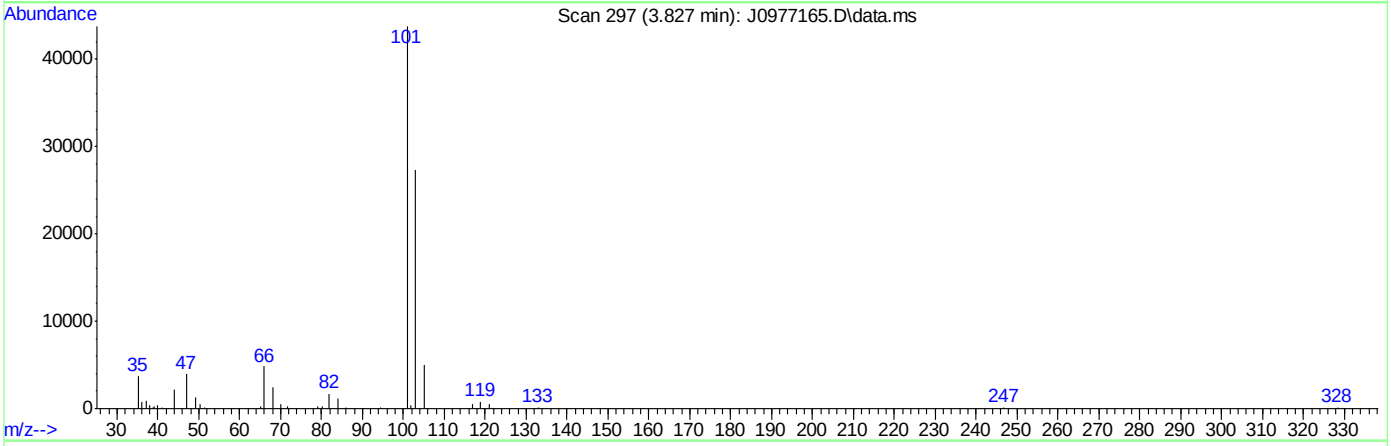
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977165.D
Acq On : 14 Jun 2016 12:58 pm
Operator : darshnap
Sample : icv5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 13:16:27 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:10:59 2016
Response via : Initial Calibration





TIC: J0977165.D\data.ms

(8) Trichlorofluoromethane ( )

3.827min (-0.006) 29.06ug/L

response 154286

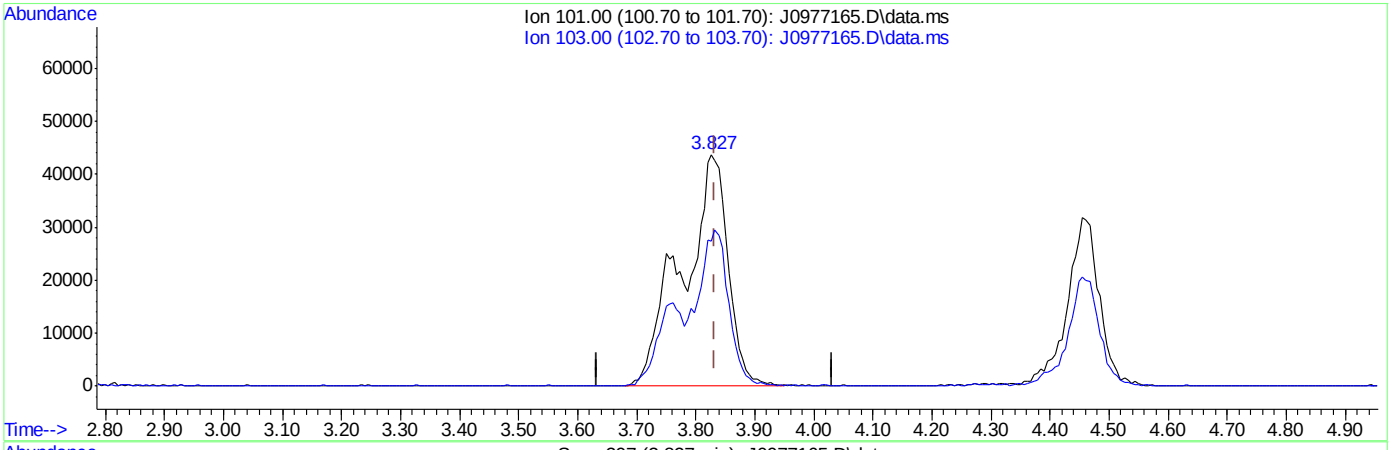
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	61.86
0.00	0.00	0.00
0.00	0.00	0.00

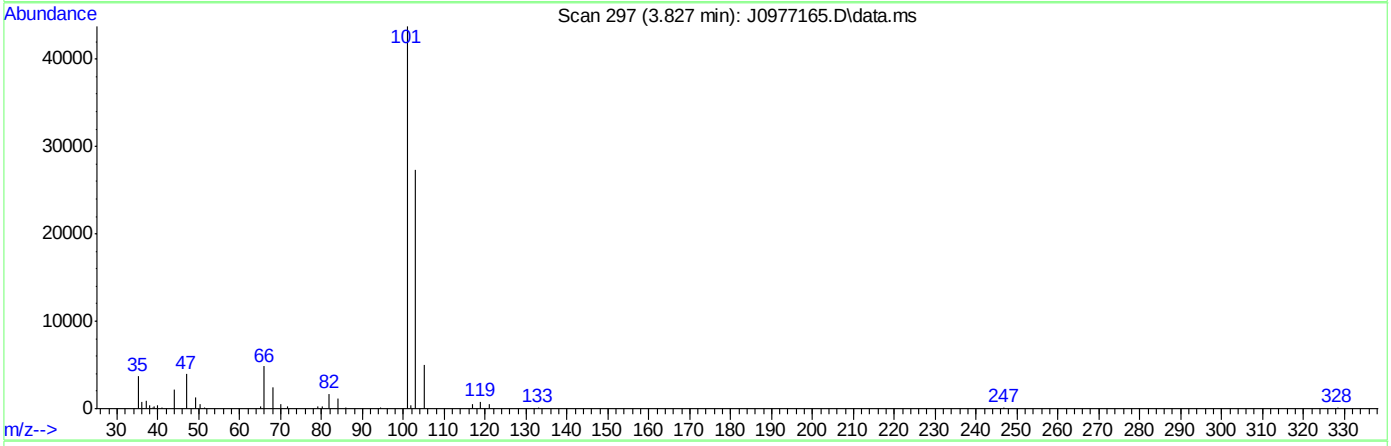
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977165.D
Acq On : 14 Jun 2016 12:58 pm
Operator : darshnap
Sample : icv5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 13:16:27 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:10:59 2016
Response via : Initial Calibration





TIC: J0977165.D\data.ms

(8) Trichlorofluoromethane ( )

3.827min (-0.006) 44.48ug/L m

response 234353

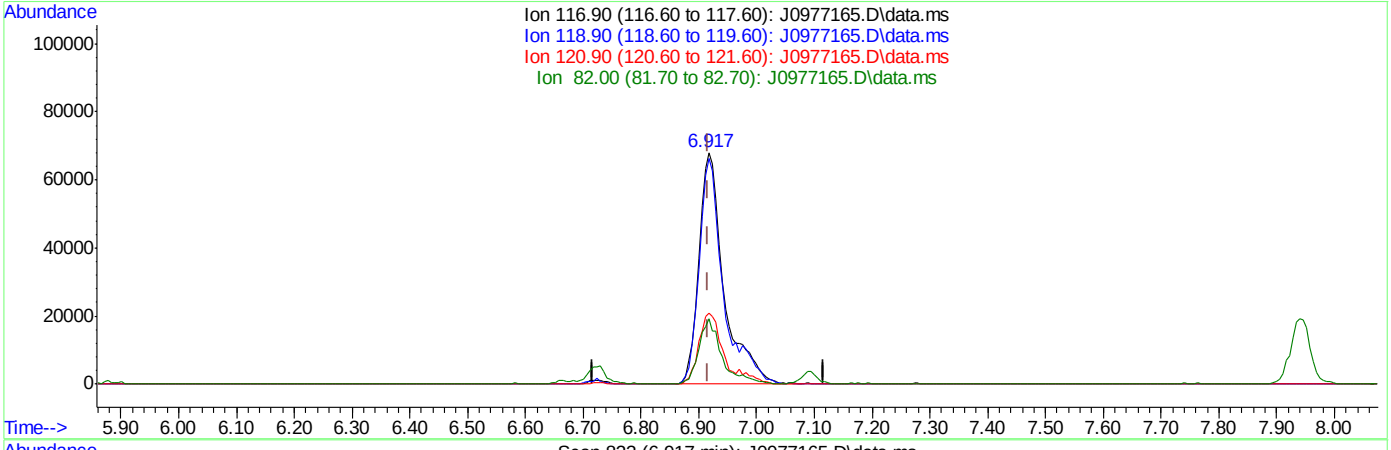
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	62.61
0.00	0.00	0.00
0.00	0.00	0.00

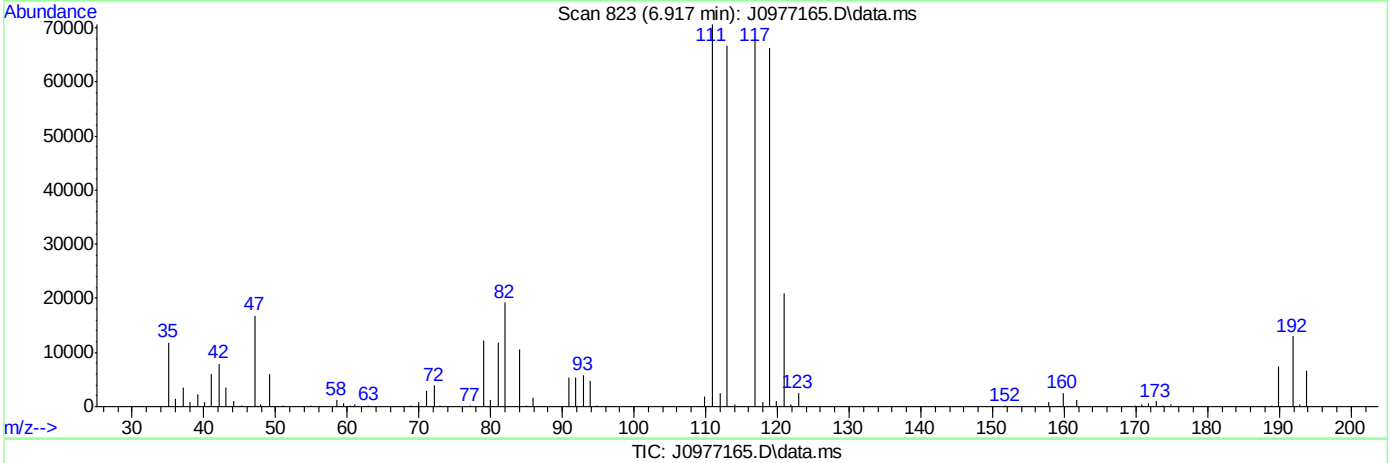
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977165.D
Acq On : 14 Jun 2016 12:58 pm
Operator : darshnap
Sample : icv5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 13:16:27 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:10:59 2016
Response via : Initial Calibration





TIC: J0977165.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 48.62ug/L

response 207708

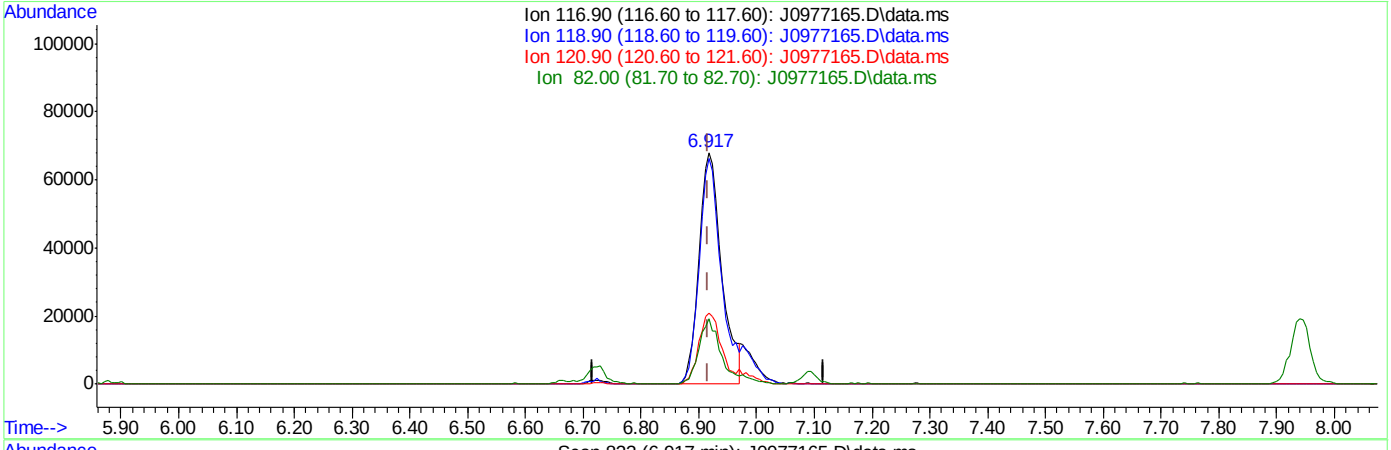
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	97.55
120.90	30.90	30.89
82.00	25.70	28.27

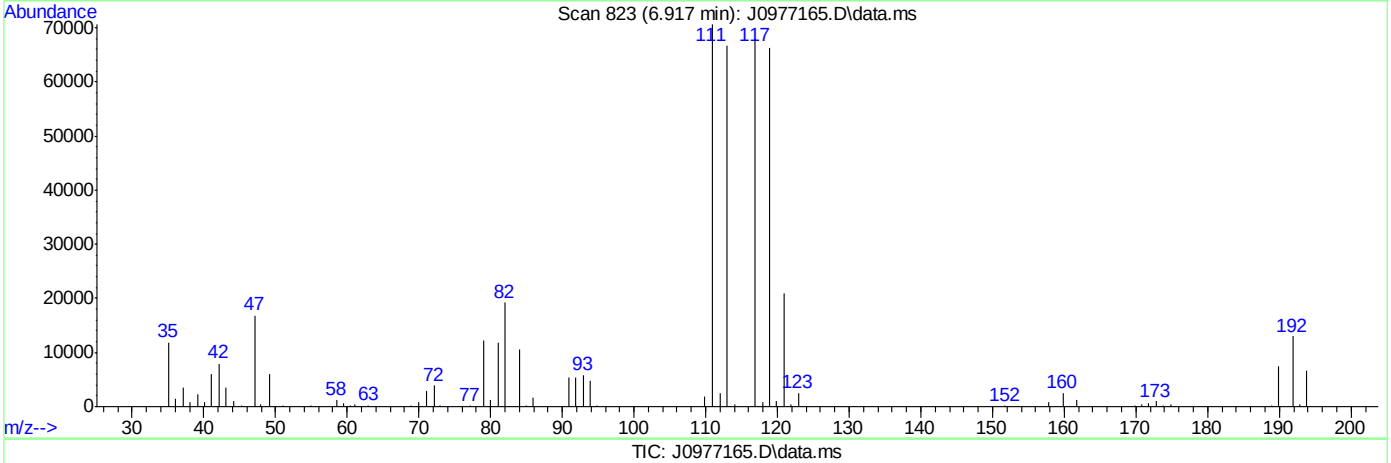
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977165.D
Acq On : 14 Jun 2016 12:58 pm
Operator : darshnap
Sample : icv5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 13:16:27 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:10:59 2016
Response via : Initial Calibration





TIC: J0977165.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 43.81ug/L m

response 187158

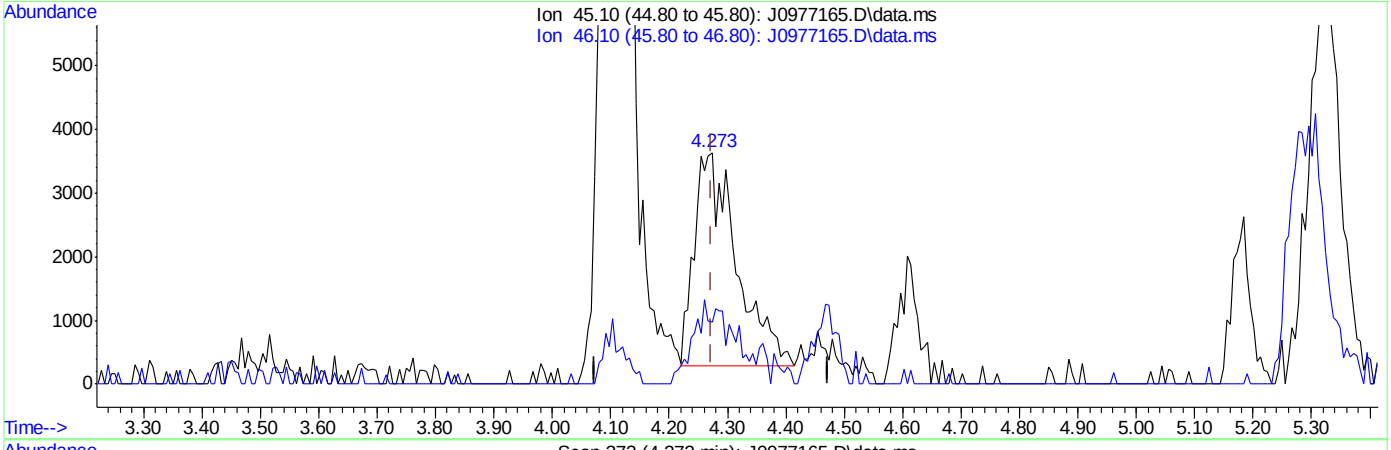
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	97.55
120.90	30.90	30.89
82.00	25.70	28.27

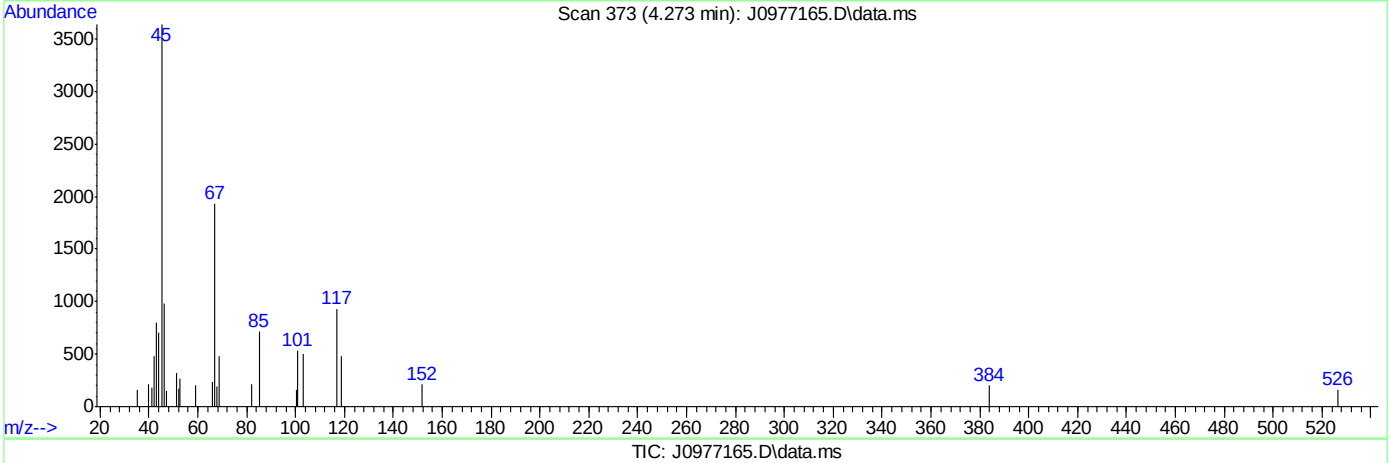
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977165.D
Acq On : 14 Jun 2016 12:58 pm
Operator : darshnap
Sample : icv5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 13:16:27 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:10:59 2016
Response via : Initial Calibration





TIC: J0977165.D\data.ms

(107) Ethanol

4.273min (+0.000) 586.34ug/L

response 16683

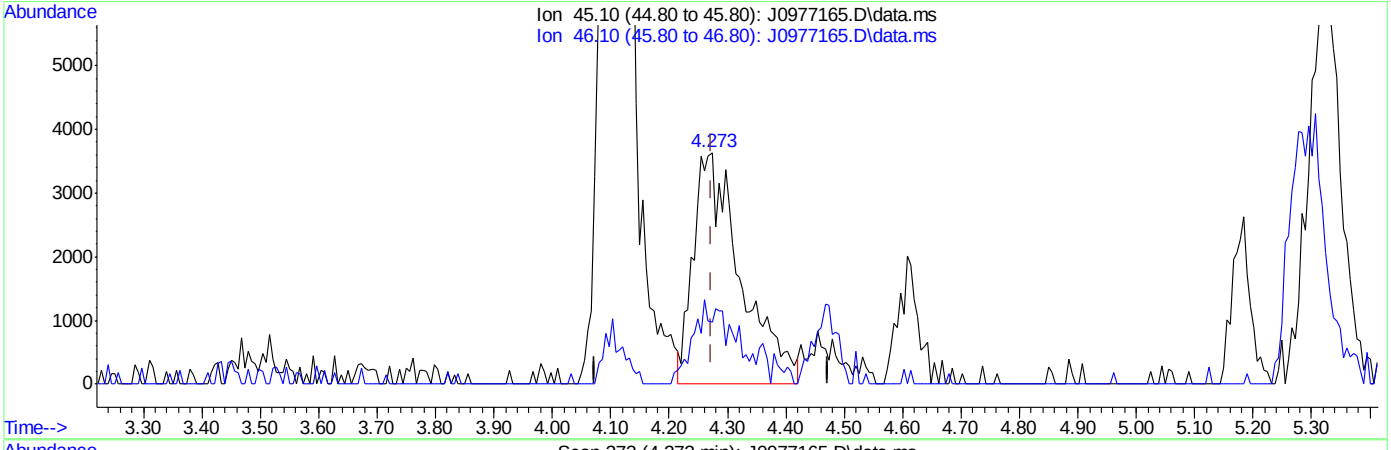
Ion	Exp%	Act%
45.10	100	100
46.10	20.50	29.39
0.00	0.00	0.00
0.00	0.00	0.00

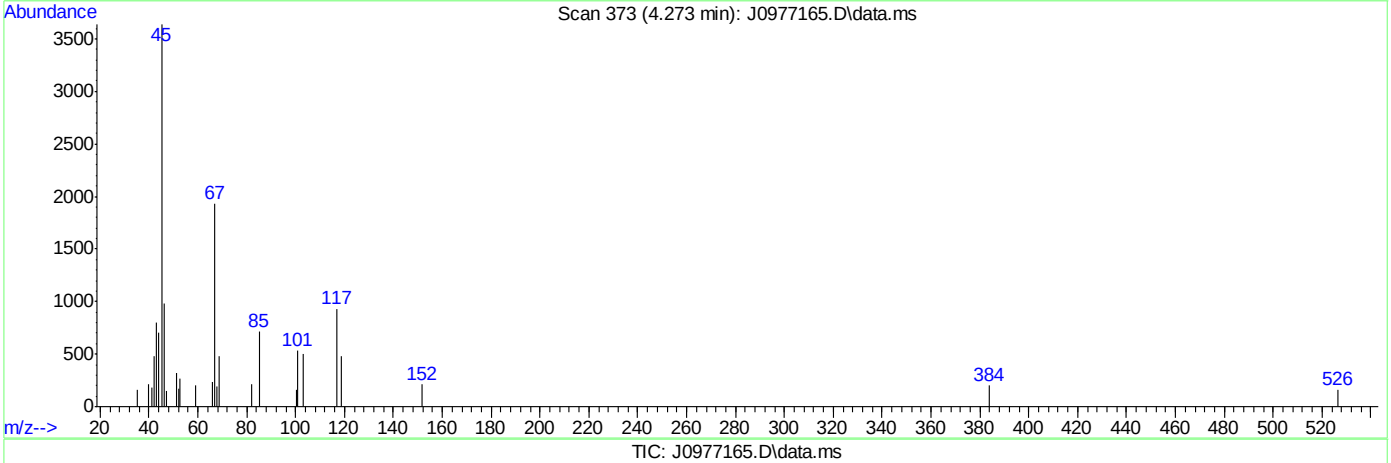
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061416\
Data File : J0977165.D
Acq On : 14 Jun 2016 12:58 pm
Operator : darshnap
Sample : icv5333-5 Inst : MSVOA6
Misc : MS34133,VJ5333,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 14 13:16:27 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:10:59 2016
Response via : Initial Calibration





TIC: J0977165.D\data.ms

(107) Ethanol

4.273min (+0.000) 718.20ug/L m

response 20352

Ion	Exp%	Act%
45.10	100	100
46.10	20.50	27.02
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/17/16 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977220.D
Acq On : 16 Jun 2016 9:58 am
Operator : darshnap
Sample : cc5333-5 Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:31:39 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	644894	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	478476	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	272158	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	52910	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	161641	50.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.80%			
46) 1,2-Dichloroethane-d4	7.463	65	202983	50.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.16%			
57) Toluene-d8	9.285	98	642497	50.52	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.04%			
79) 4-Bromofluorobenzene	12.041	95	250401	49.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	150387	53.55	ug/L	94
3) Chloromethane	2.892	50	219112	44.06	ug/L	89
4) Vinyl Chloride	3.039	62	202514	44.64	ug/L	91
5) 1,3-Butadiene	3.027	54	110966	37.23	ug/L	93
6) Bromomethane	3.450	94	131511	43.67	ug/L	93
7) Chloroethane	3.603	64	104334	43.14	ug/L	94
8) Trichlorofluoromethane	3.826	101	252942m	44.75	ug/L	
9) Ethyl Ether	4.103	59	123801	39.49	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.361	67	166339	40.67	ug/L	92
11) 1,1-Dichloroethene	4.379	61	225726	39.65	ug/L	96
12) Freon 113	4.455	101	143561	40.91	ug/L	95
13) Carbon Disulfide	4.461	76	474351	38.65	ug/L	94
14) Iodomethane	4.573	142	228052	38.38	ug/L	95
15) Allyl chloride	4.908	41	233492	42.11	ug/L	93
16) Methylene Chloride	5.031	49	224786	39.20	ug/L	96
17) Acetone	5.054	58	53167	230.66	ug/L	90
18) Methyl acetate	5.178	74	83855	203.03	ug/L #	93
19) trans-1,2-Dichloroethene	5.213	61	197885	37.36	ug/L	98
20) Hexane	5.284	56	137193	40.33	ug/L #	91
21) Methyl Tert Butyl Ether	5.319	73	387472	39.04	ug/L	97
22) Acetonitrile	5.583	40	74108	431.14	ug/L	92
23) Di-isopropyl ether	5.701	45	515363	37.22	ug/L	94
24) Chloroprene	5.859	53	262964	46.25	ug/L	97
25) 1,1-Dichloroethane	5.883	63	247822	37.94	ug/L	95
26) Acrylonitrile	5.906	53	218418	200.73	ug/L	92
27) ETBE	6.100	59	483935	37.94	ug/L	96
28) Vinyl acetate	6.094	43	1421603	203.21	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	145546	36.98	ug/L	92
30) 2,2-Dichloropropane	6.594	77	193333	40.07	ug/L	96
31) Bromochloromethane	6.670	128	65110	39.10	ug/L	88
32) Cyclohexane	6.723	56	273149	40.19	ug/L	96
33) Chloroform	6.723	83	258217	38.64	ug/L	97
34) Ethyl acetate	6.794	43	551698	200.80	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977220.D
Acq On : 16 Jun 2016 9:58 am
Operator : darshnap
Sample : cc5333-5 Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:31:39 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.905	42	32860	42.47	ug/L		93
37)	Carbon Tetrachloride	6.917	117	187908m	41.00	ug/L		
38)	1,1,1-Trichloroethane	6.982	97	220164	38.99	ug/L		97
39)	2-Butanone	7.011	43	242155	208.17	ug/L		99
40)	1,1-Dichloropropene	7.093	75	181257	39.64	ug/L		96
41)	tert-Butyl Formate	7.176	59	1125613	414.74	ug/L		99
42)	Propionitrile	7.322	54	154573	435.51	ug/L		78
43)	Methacrylonitrile	7.346	41	721616	404.92	ug/L		99
44)	Benzene	7.346	78	547040	37.42	ug/L		98
45)	TAME	7.422	73	380849	38.80	ug/L		97
47)	1,2-Dichloroethane	7.534	62	185926	37.74	ug/L		95
48)	Trichloroethene	7.922	95	135975	36.29	ug/L		98
49)	Methylcyclohexane	7.945	83	254334	39.72	ug/L		99
50)	Dibromomethane	8.345	93	76745	37.76	ug/L		95
51)	1,2-Dichloropropane	8.433	63	142689	37.17	ug/L		98
52)	Bromodichloromethane	8.480	83	175091	37.41	ug/L		92
53)	Methyl methacrylate	8.580	41	104011	42.34	ug/L		92
54)	2-Chloroethyl vinyl ether	8.991	63	433423	207.16	ug/L		98
55)	cis-1,3-Dichloropropene	9.097	75	205446	37.04	ug/L		95
58)	Toluene	9.338	91	570818	37.17	ug/L		100
59)	2-Nitropropane	9.543	41	147501	214.36	ug/L		95
60)	4-Methyl-2-pentanone	9.661	43	589373	213.62	ug/L		98
61)	trans-1,3-Dichloropropene	9.720	75	176893	40.13	ug/L		98
62)	Tetrachloroethene	9.743	166	146177	39.71	ug/L		91
63)	Ethyl methacrylate	9.825	69	156569	42.45	ug/L		98
64)	1,1,2-Trichloroethane	9.890	83	94796	37.34	ug/L		96
65)	Dibromochloromethane	10.090	129	119262	39.12	ug/L		94
66)	1,3-Dichloropropane	10.166	76	189919	38.05	ug/L		98
67)	1,2-Dibromoethane	10.348	107	106170	39.58	ug/L		99
68)	2-hexanone	10.478	43	413763	213.89	ug/L		98
69)	1-Chlorohexane	10.783	91	180069	39.63	ug/L		95
70)	Ethylbenzene	10.848	91	673868	37.97	ug/L		99
71)	Chlorobenzene	10.854	112	366128	37.74	ug/L		98
72)	1,1,1,2-Tetrachloroethane	10.901	131	131053	38.86	ug/L		95
73)	m,p-Xylene	10.983	91	1045113	77.11	ug/L		100
74)	o-Xylene	11.424	91	527440	39.30	ug/L		97
75)	Styrene	11.471	104	392201	39.19	ug/L		96
76)	Bromoform	11.535	173	70693	39.55	ug/L		91
77)	Isopropylbenzene	11.729	105	616475	40.87	ug/L		99
80)	cis-1,4-Dichloro-2-butene	12.076	53	35408	54.64	ug/L		92
81)	n-Propylbenzene	12.146	91	767564	38.23	ug/L		99
82)	Bromobenzene	12.170	156	162536	37.94	ug/L		97
83)	1,1,2,2-Tetrachloroethane	12.205	83	141554	39.30	ug/L		97
84)	1,3,5-Trimethylbenzene	12.328	105	567034	38.20	ug/L		98
85)	2-Chlorotoluene	12.340	91	536127	37.74	ug/L		98
86)	trans-1,4-Dichloro-2-B...	12.387	53	33386	50.89	ug/L	#	75
87)	1,2,3-Trichloropropane	12.370	110	34184	37.33	ug/L		96
88)	Cyclohexanone	12.434	55	25143	226.95	ug/L		91
89)	4-Chlorotoluene	12.505	91	481351	37.50	ug/L		98
90)	a-Methyl Styrene	12.593	118	308497	40.88	ug/L		99

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977220.D
Acq On : 16 Jun 2016 9:58 am
Operator : darshnap
Sample : cc5333-5 Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:31:39 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.669	91	320394	38.88	ug/L	99
92)	1,2,4-Trimethylbenzene	12.740	105	558356	37.87	ug/L	97
93)	Pentachloroethane	12.722	167	98121	42.63	ug/L	96
94)	sec-Butylbenzene	12.857	105	683748	40.08	ug/L	100
95)	4-Isopropyltoluene	12.987	119	573204	40.12	ug/L	97
96)	1,3-Dichlorobenzene	13.122	146	317681	38.06	ug/L	98
97)	1,4-Dichlorobenzene	13.210	146	323302	37.62	ug/L	96
98)	n-Butylbenzene	13.421	92	338311	40.86	ug/L	94
99)	Benzyl Chloride	13.433	126	48685	40.94	ug/L	97
100)	1,2-Dichlorobenzene	13.633	146	303481	37.88	ug/L	98
101)	1,2-Dibromo-3-Chloropr...	14.367	75	19361	40.56	ug/L	92
102)	Hexachlorobutadiene	14.914	225	103194	38.02	ug/L	99
103)	1,2,4-Trichlorobenzene	14.961	180	202669	39.95	ug/L	96
104)	Naphthalene	15.243	128	296213	44.51	ug/L	94
105)	1,2,3-Trichlorobenzene	15.413	180	162840	40.98	ug/L	98
107)	Ethanol	4.279	45	25676m	817.77	ug/L	
108)	acrolein	4.743	56	103752	167.71	ug/L	91
109)	Tert Butyl Alcohol	5.372	59	104982	365.19	ug/L	84
110)	tert Amyl alcohol	7.557	59	80698	355.96	ug/L	94
111)	Isobutyl alcohol	7.440	42	74566	696.13	ug/L #	79
112)	1,4-Dioxane	8.656	88	19716	870.37	ug/L	89
113)	3,3-Dimethyl-1-butanol	10.425	57	483225	1776.01	ug/L	99

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

7.6.9

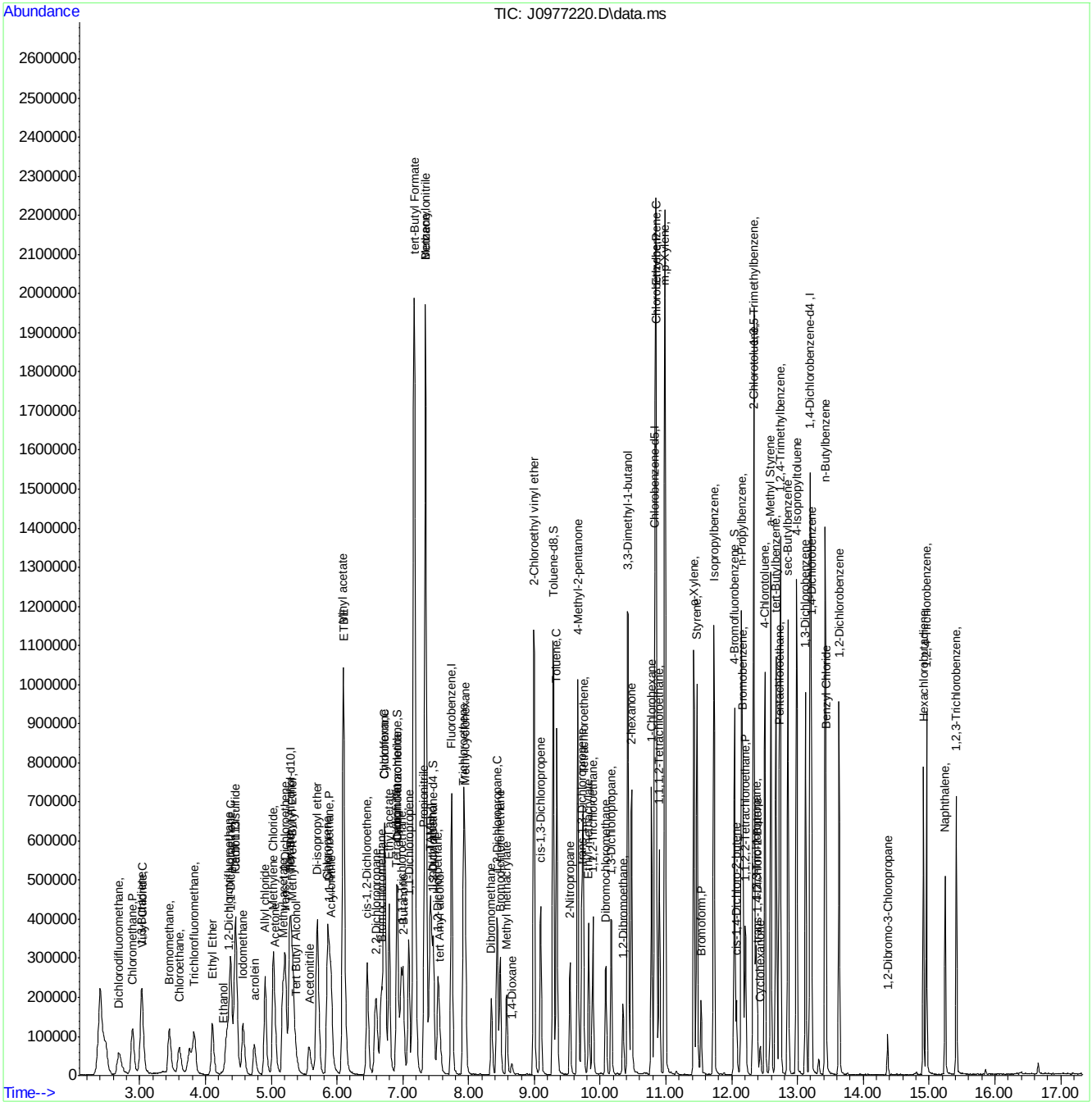
7

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977220.D
Acq On : 16 Jun 2016 9:58 am
Operator : darshnap
Sample : cc5333-5 Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:31:39 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



MSJ061416a.M Fri Jun 17 12:20:14 2016 Page: 4

SGS ACCUTEST FA34748

Manual Integration Approval Summary

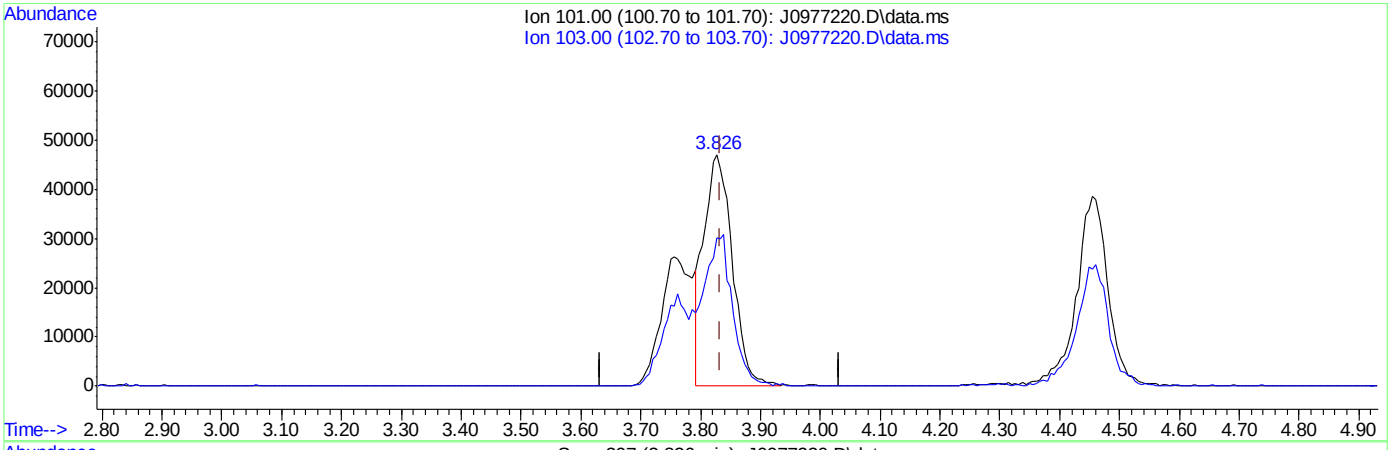
Sample Number:	VJ5335-CC5333	**Method:**	SW846 8260B
Lab FileID:	J0977220.D	**Analyst approved:**	06/17/16 12:38 Darshna Patel
Injection Time:	06/16/16 09:58	**Supervisor approved:**	06/17/16 12:57 Juan Garcia

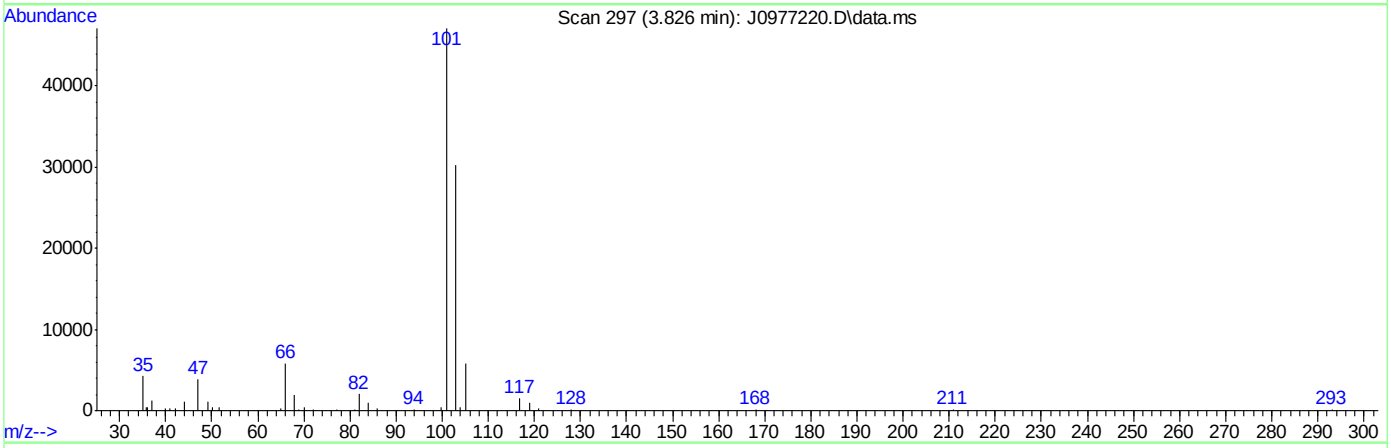
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977220.D
Acq On : 16 Jun 2016 9:58 am
Operator : darshnap
Sample : cc5333-5 Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:31:12 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977220.D\data.ms

(8) Trichlorofluoromethane ( )

3.826min (-0.007) 27.32ug/L

response 155743

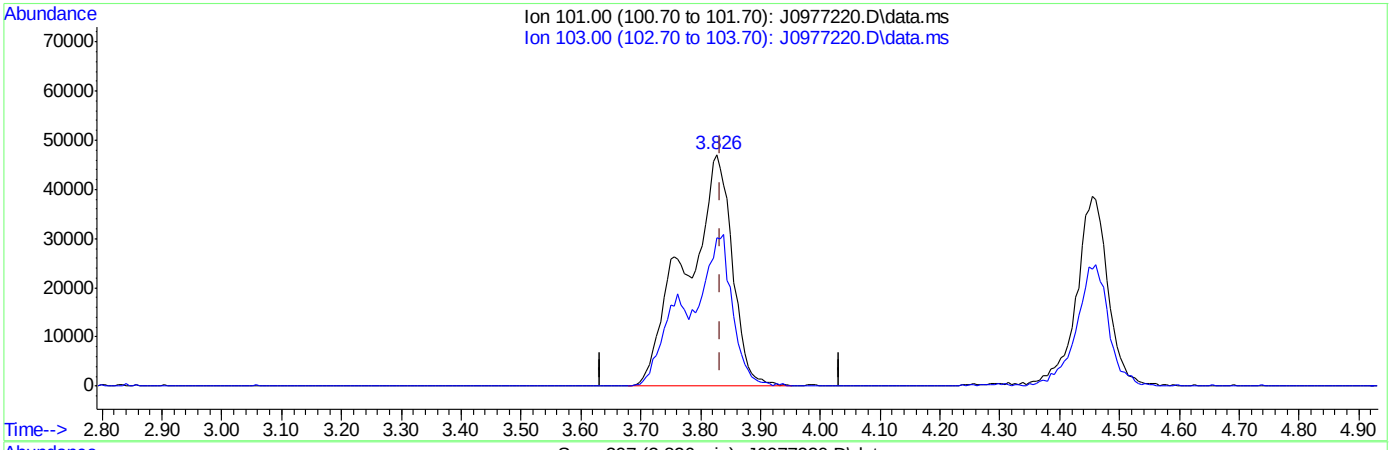
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	63.52
0.00	0.00	0.00
0.00	0.00	0.00

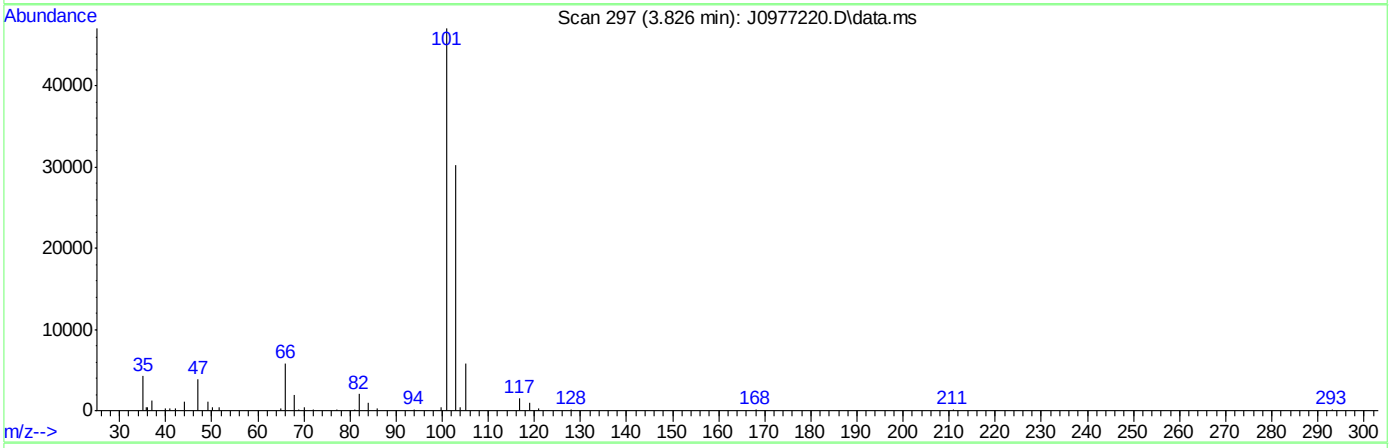
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977220.D
Acq On : 16 Jun 2016 9:58 am
Operator : darshnap
Sample : cc5333-5 Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:31:12 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.826min (-0.007) 44.75ug/L m

response 252942

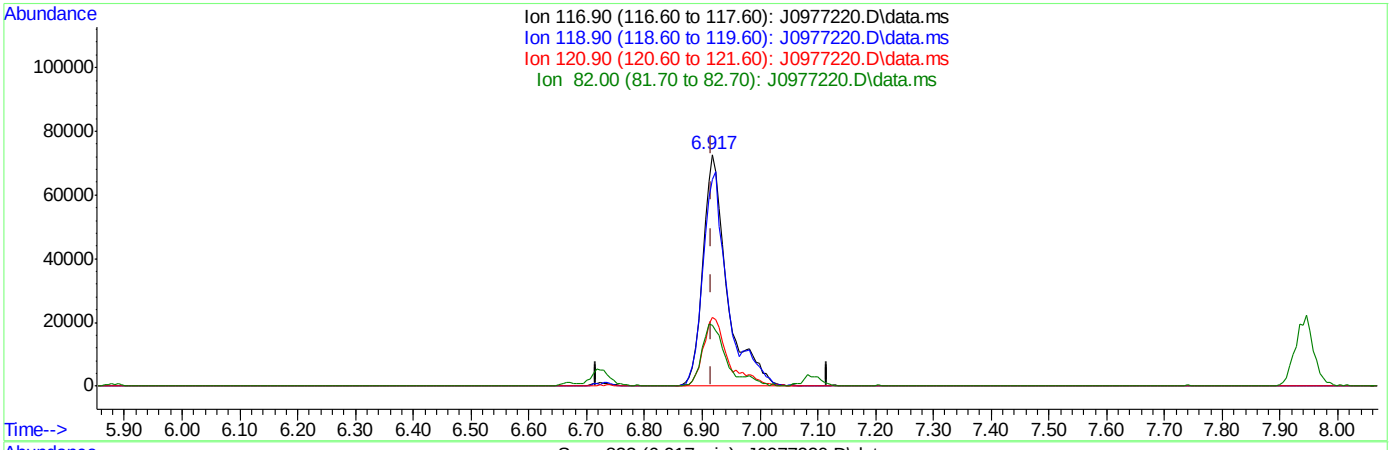
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	64.10
0.00	0.00	0.00
0.00	0.00	0.00

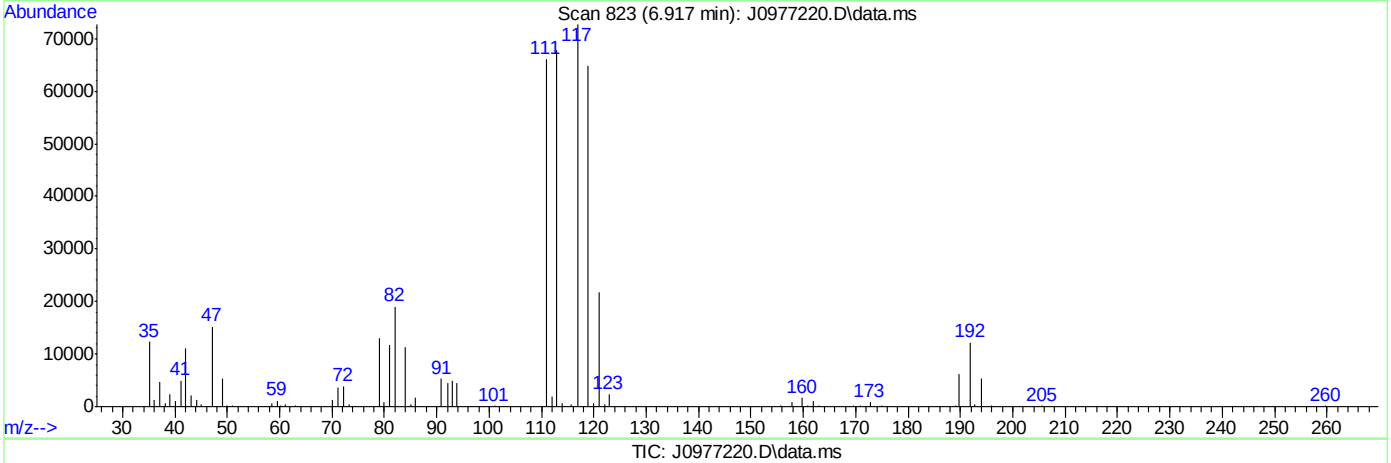
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977220.D
Acq On : 16 Jun 2016 9:58 am
Operator : darshnap
Sample : cc5333-5 Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:31:12 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.917min (+0.000) 46.53ug/L

response 213253

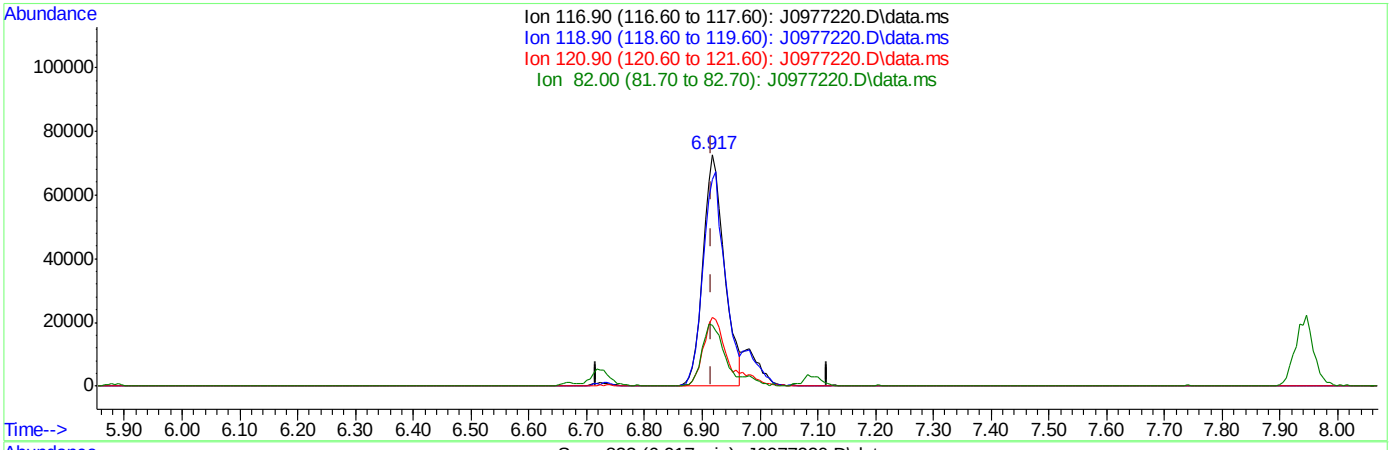
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	89.11
120.90	30.90	29.86
82.00	25.70	26.22

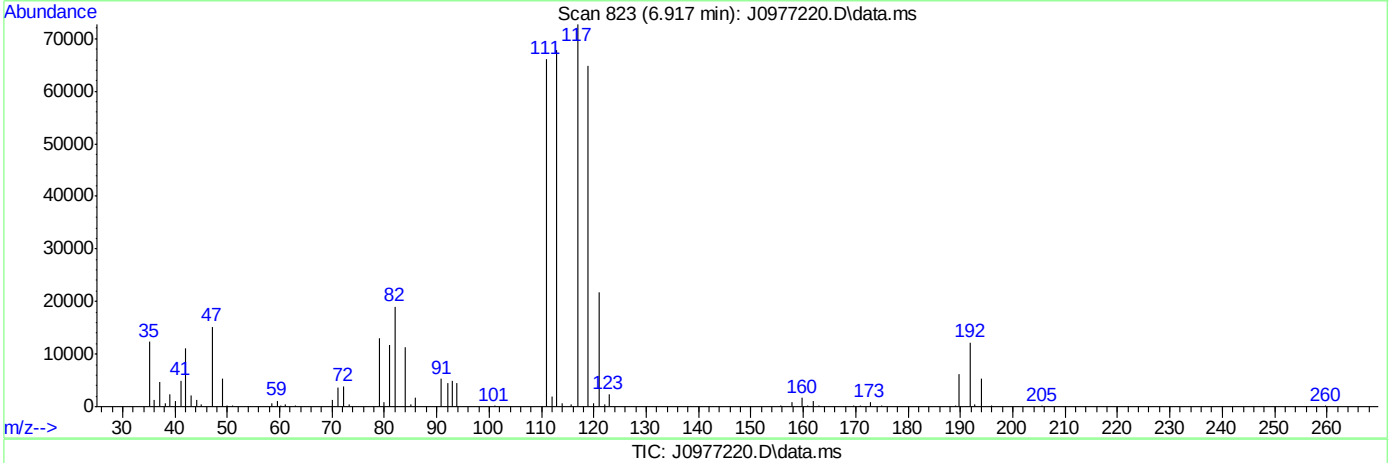
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977220.D
Acq On : 16 Jun 2016 9:58 am
Operator : darshnap
Sample : cc5333-5 Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:31:12 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.917min (+0.000) 41.00ug/L m

response 187908

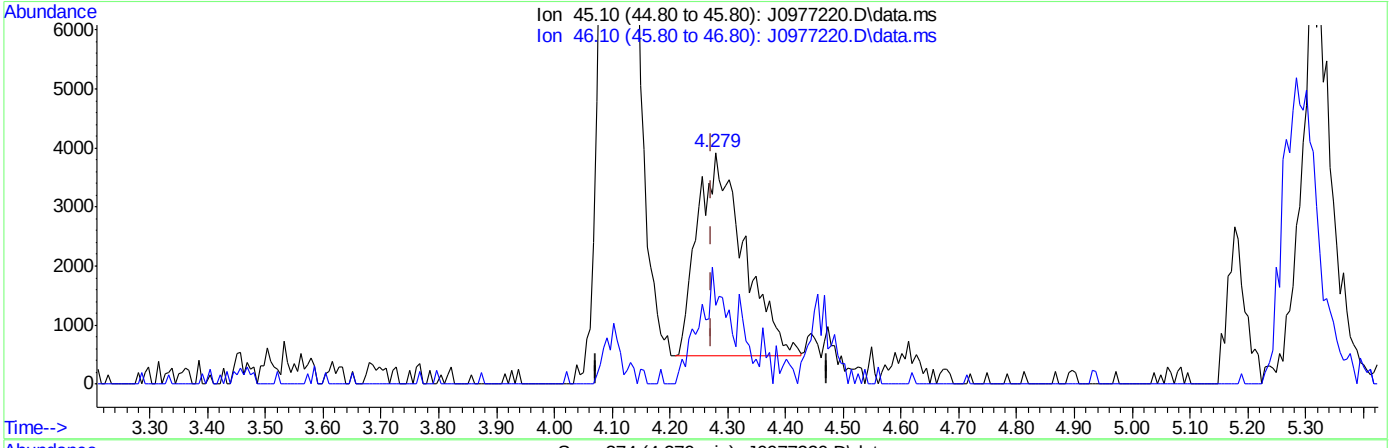
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	89.11
120.90	30.90	29.86
82.00	25.70	26.22

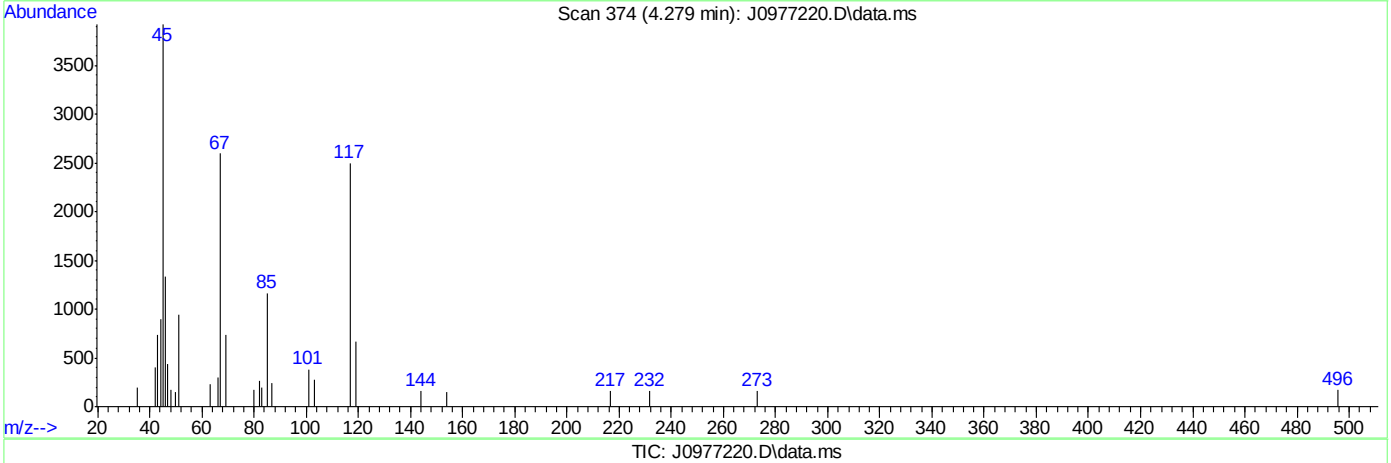
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977220.D
Acq On : 16 Jun 2016 9:58 am
Operator : darshnap
Sample : cc5333-5 Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:31:12 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977220.D\data.ms

(107) Ethanol

4.279min (+0.006) 614.18ug/L

response 19405

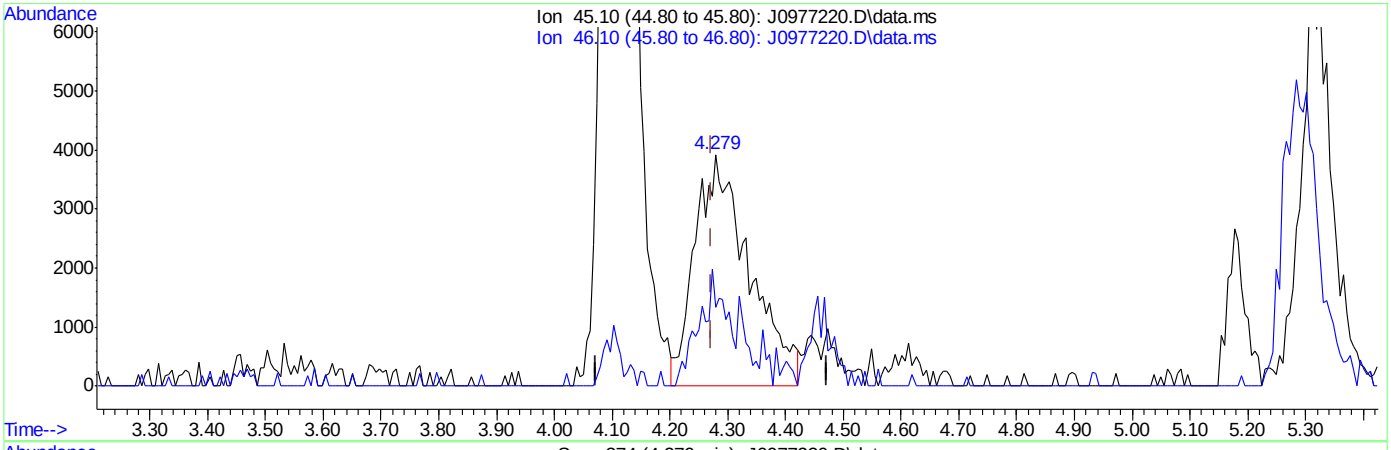
Ion	Exp%	Act%
45.10	100	100
46.10	20.50	38.94
0.00	0.00	0.00
0.00	0.00	0.00

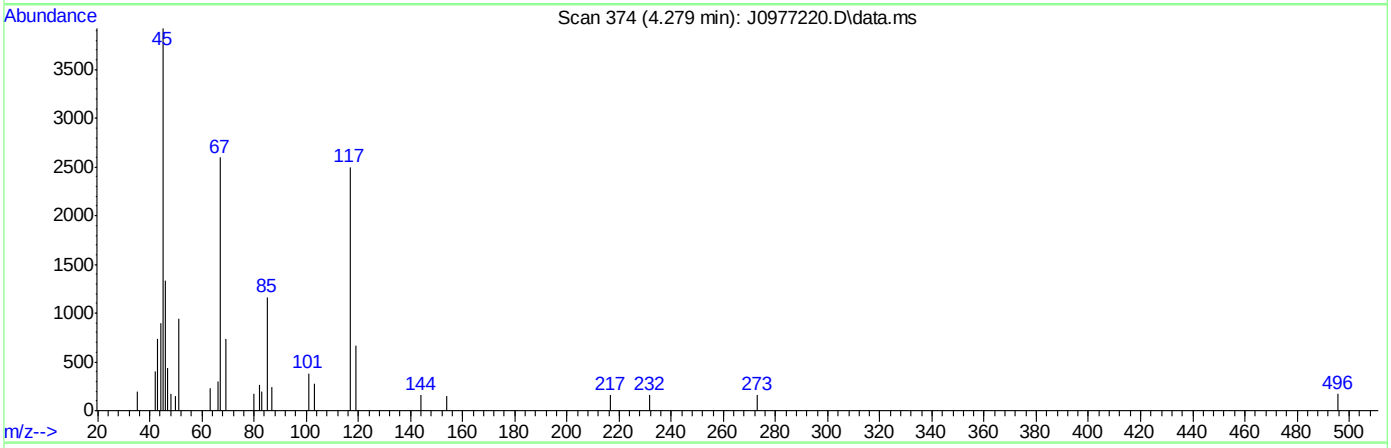
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977220.D
Acq On : 16 Jun 2016 9:58 am
Operator : darshnap
Sample : cc5333-5 Inst : MSVOA6
Misc : MS34151,VJ5335,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 16 13:31:12 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977220.D\data.ms

(107) Ethanol

4.279min (+0.006) 817.77ug/L m

response 25676

Ion	Exp%	Act%
45.10	100	100
46.10	20.50	34.16
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/17/16 12:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977247.D
Acq On : 16 Jun 2016 8:55 pm
Operator : darshnap
Sample : ecc5333-5 Inst : MSVOA6
Misc : MS34165,VJ5335,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 08:50:26 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.745	96	598637	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	467866	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	259548	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.301	65	39348	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	153044	51.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.82%			
46) 1,2-Dichloroethane-d4	7.463	65	189761	50.44	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.88%			
57) Toluene-d8	9.285	98	606018	48.73	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.46%			
79) 4-Bromofluorobenzene	12.041	95	241825	49.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.698	85	131667	50.49	ug/L	88
3) Chloromethane	2.892	50	205760	44.59	ug/L	97
4) Vinyl Chloride	3.039	62	192046	45.65	ug/L	94
5) 1,3-Butadiene	3.033	54	118423	42.81	ug/L	91
6) Bromomethane	3.462	94	125432	45.05	ug/L	95
7) Chloroethane	3.609	64	107107	48.99	ug/L	98
8) Trichlorofluoromethane	3.838	101	233457m	44.49	ug/L	
9) Ethyl Ether	4.108	59	123440	42.40	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.355	67	164904	43.43	ug/L	92
11) 1,1-Dichloroethene	4.391	61	229012	43.34	ug/L	94
12) Freon 113	4.467	101	139843	42.92	ug/L	90
13) Carbon Disulfide	4.467	76	479230	42.06	ug/L	96
14) Iodomethane	4.579	142	231485	41.94	ug/L	96
15) Allyl chloride	4.913	41	206648	40.27	ug/L	96
16) Methylene Chloride	5.037	49	214629	40.34	ug/L	98
17) Acetone	5.054	58	39817	187.37	ug/L #	67
18) Methyl acetate	5.178	74	81974	213.81	ug/L #	83
19) trans-1,2-Dichloroethene	5.219	61	202160	41.12	ug/L	95
20) Hexane	5.289	56	140045	44.34	ug/L	97
21) Methyl Tert Butyl Ether	5.325	73	375309	40.74	ug/L	94
22) Acetonitrile	5.583	40	58411	367.74	ug/L	95
23) Di-isopropyl ether	5.707	45	527288	40.99	ug/L	94
24) Chloroprene	5.859	53	222698	42.59	ug/L	97
25) 1,1-Dichloroethane	5.889	63	248441	40.90	ug/L	95
26) Acrylonitrile	5.912	53	198431	196.45	ug/L	97
27) ETBE	6.106	59	488270	41.24	ug/L	96
28) Vinyl acetate	6.094	43	1232541	189.79	ug/L	97
29) cis-1,2-Dichloroethene	6.465	96	146368	40.06	ug/L	90
30) 2,2-Dichloropropane	6.594	77	187868	41.95	ug/L	96
31) Bromochloromethane	6.676	128	67133	43.34	ug/L	93
32) Cyclohexane	6.723	56	274886	43.46	ug/L	95
33) Chloroform	6.729	83	253638	40.85	ug/L	93
34) Ethyl acetate	6.794	43	488858	191.67	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977247.D
Acq On : 16 Jun 2016 8:55 pm
Operator : darshnap
Sample : ecc5333-5 Inst : MSVOA6
Misc : MS34165,VJ5335,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 08:50:26 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	28895	40.31 ug/L	92
37) Carbon Tetrachloride	6.923	117	186822m	43.91 ug/L	
38) 1,1,1-Trichloroethane	6.987	97	221760	42.31 ug/L	99
39) 2-Butanone	7.011	43	203182	188.16 ug/L	99
40) 1,1-Dichloropropene	7.093	75	181334	42.72 ug/L	98
41) tert-Butyl Formate	7.176	59	1030608	409.29 ug/L	98
42) Propionitrile	7.317	54	126569	384.16 ug/L	87
43) Methacrylonitrile	7.346	41	614383	371.38 ug/L	97
44) Benzene	7.346	78	554074	40.79 ug/L	93
45) TAME	7.422	73	374493	41.10 ug/L	99
47) 1,2-Dichloroethane	7.534	62	184961	40.45 ug/L	99
48) Trichloroethene	7.922	95	134588	38.69 ug/L	97
49) Methylcyclohexane	7.945	83	258509	43.35 ug/L	98
50) Dibromomethane	8.351	93	73258	38.83 ug/L	95
51) 1,2-Dichloropropane	8.439	63	139589	39.14 ug/L	96
52) Bromodichloromethane	8.480	83	165706	38.11 ug/L	98
53) Methyl methacrylate	8.580	41	82386	36.46 ug/L	92
54) 2-Chloroethyl vinyl ether	8.997	63	349798	180.66 ug/L	96
55) cis-1,3-Dichloropropene	9.097	75	196838	38.23 ug/L	92
58) Toluene	9.338	91	571840	38.08 ug/L	99
59) 2-Nitropropane	9.543	41	132356	196.72 ug/L	90
60) 4-Methyl-2-pentanone	9.661	43	531898	197.16 ug/L	99
61) trans-1,3-Dichloropropene	9.726	75	169076	39.23 ug/L	96
62) Tetrachloroethene	9.743	166	165780	46.05 ug/L	92
63) Ethyl methacrylate	9.825	69	134431	37.52 ug/L	97
64) 1,1,2-Trichloroethane	9.890	83	90688	36.53 ug/L	93
65) Dibromochloromethane	10.090	129	116824	39.19 ug/L	93
66) 1,3-Dichloropropane	10.172	76	187310	38.38 ug/L	94
67) 1,2-Dibromoethane	10.348	107	101567	38.72 ug/L	99
68) 2-hexanone	10.478	43	369005	195.08 ug/L	99
69) 1-Chlorohexane	10.783	91	184162	41.39 ug/L	98
70) Ethylbenzene	10.848	91	683616	39.41 ug/L	97
71) Chlorobenzene	10.854	112	368291	38.82 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.901	131	123878	37.56 ug/L	96
73) m,p-Xylene	10.983	91	1054979	79.67 ug/L	98
74) o-Xylene	11.424	91	522134	39.79 ug/L	99
75) Styrene	11.471	104	386851	39.54 ug/L	98
76) Bromoform	11.535	173	65983	37.80 ug/L	92
77) Isopropylbenzene	11.729	105	610784	41.41 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.076	53	21018	36.92 ug/L #	90
81) n-Propylbenzene	12.146	91	772413	40.34 ug/L	98
82) Bromobenzene	12.170	156	161088	39.41 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.205	83	128700	37.47 ug/L	99
84) 1,3,5-Trimethylbenzene	12.328	105	566273	40.00 ug/L	97
85) 2-Chlorotoluene	12.340	91	539911	39.83 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.387	53	22457	37.79 ug/L #	85
87) 1,2,3-Trichloropropane	12.370	110	33340	38.18 ug/L	96
88) Cyclohexanone	12.434	55	13122	123.14 ug/L #	77
89) 4-Chlorotoluene	12.505	91	487707	39.80 ug/L	99
90) a-Methyl Styrene	12.593	118	270954	37.83 ug/L	97

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977247.D
Acq On : 16 Jun 2016 8:55 pm
Operator : darshnap
Sample : ecc5333-5 Inst : MSVOA6
Misc : MS34165,VJ5335,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 08:50:26 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	315214	40.11	ug/L		99
92)	1,2,4-Trimethylbenzene	12.740	105	556882	39.61	ug/L		99
93)	Pentachloroethane	12.722	167	69947	31.87	ug/L		97
94)	sec-Butylbenzene	12.857	105	686551	42.20	ug/L		100
95)	4-Isopropyltoluene	12.986	119	565506	41.51	ug/L		97
96)	1,3-Dichlorobenzene	13.122	146	314839	39.55	ug/L		97
97)	1,4-Dichlorobenzene	13.210	146	320967	39.15	ug/L		97
98)	n-Butylbenzene	13.421	92	330777	41.89	ug/L		98
99)	Benzyl Chloride	13.433	126	40955	36.43	ug/L	#	67
100)	1,2-Dichlorobenzene	13.633	146	289664	37.91	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	14.367	75	17066	37.62	ug/L		95
102)	Hexachlorobutadiene	14.914	225	99033	38.26	ug/L		98
103)	1,2,4-Trichlorobenzene	14.961	180	185204	38.33	ug/L		97
104)	Naphthalene	15.243	128	279755	44.08	ug/L		97
105)	1,2,3-Trichlorobenzene	15.413	180	150325	39.71	ug/L		96
107)	Ethanol	4.249	45	17370m	742.17	ug/L		
108)	acrolein	4.749	56	97490	214.48	ug/L		98
109)	Tert Butyl Alcohol	5.366	59	88392	414.44	ug/L		92
110)	tert Amyl alcohol	7.563	59	66420	393.96	ug/L		90
111)	Isobutyl alcohol	7.434	42	62769	787.97	ug/L	#	66
112)	1,4-Dioxane	8.656	88	13276	785.50	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.419	57	392694	1941.52	ug/L		97

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

7.6.10

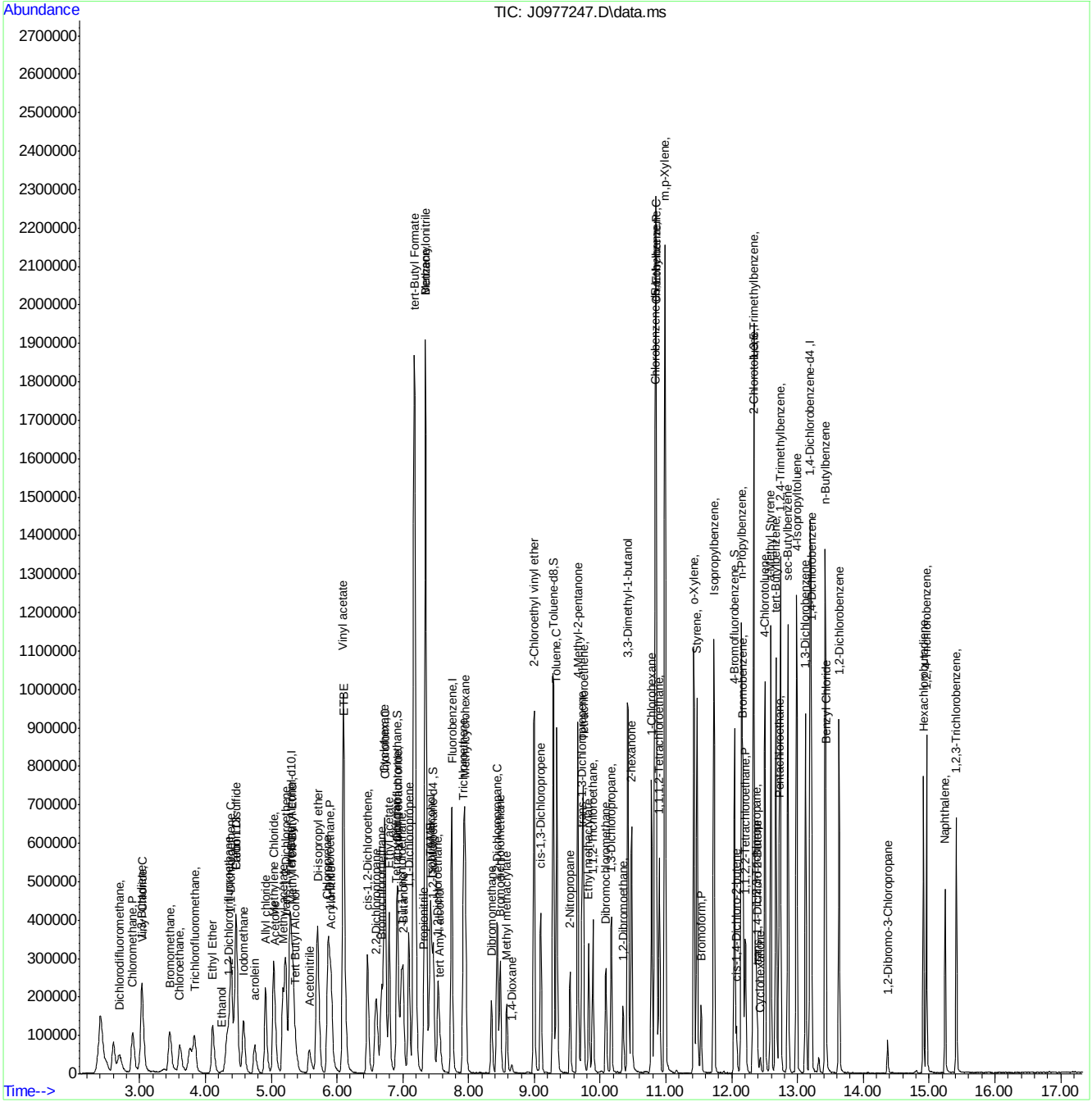
7

SGS ACCUTEST FA34748

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977247.D
Acq On : 16 Jun 2016 8:55 pm
Operator : darshnap
Sample : ecc5333-5 Inst : MSVOA6
Misc : MS34165,VJ5335,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 08:50:26 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration



Manual Integration Approval Summary

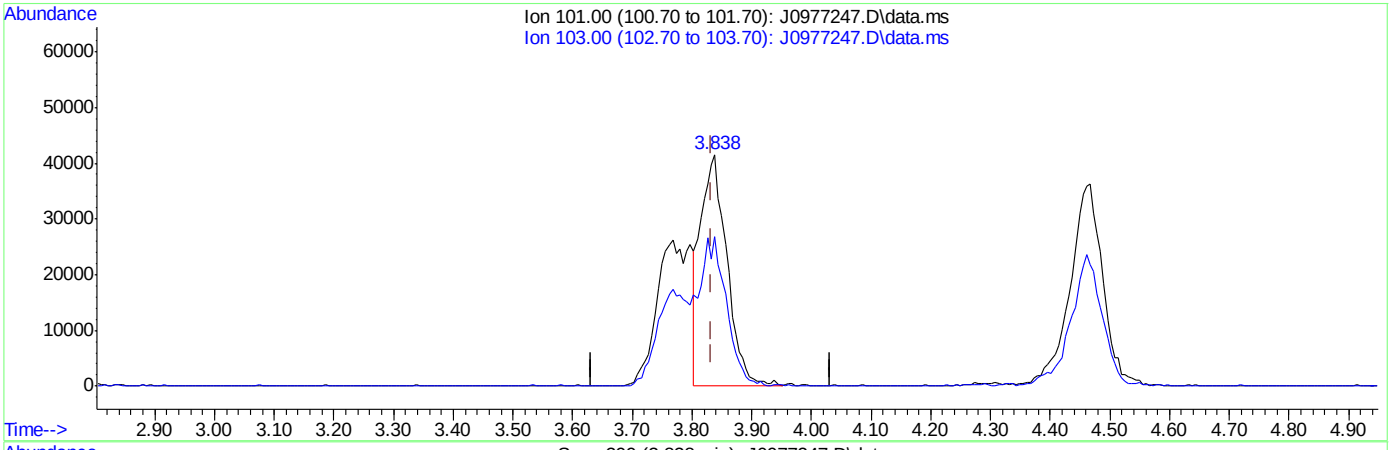
Sample Number:	VJ5335-ECC5333	**Method:**	SW846 8260B
Lab FileID:	J0977247.D	**Analyst approved:**	06/17/16 12:38 Darshna Patel
Injection Time:	06/16/16 20:55	**Supervisor approved:**	06/17/16 12:57 Juan Garcia

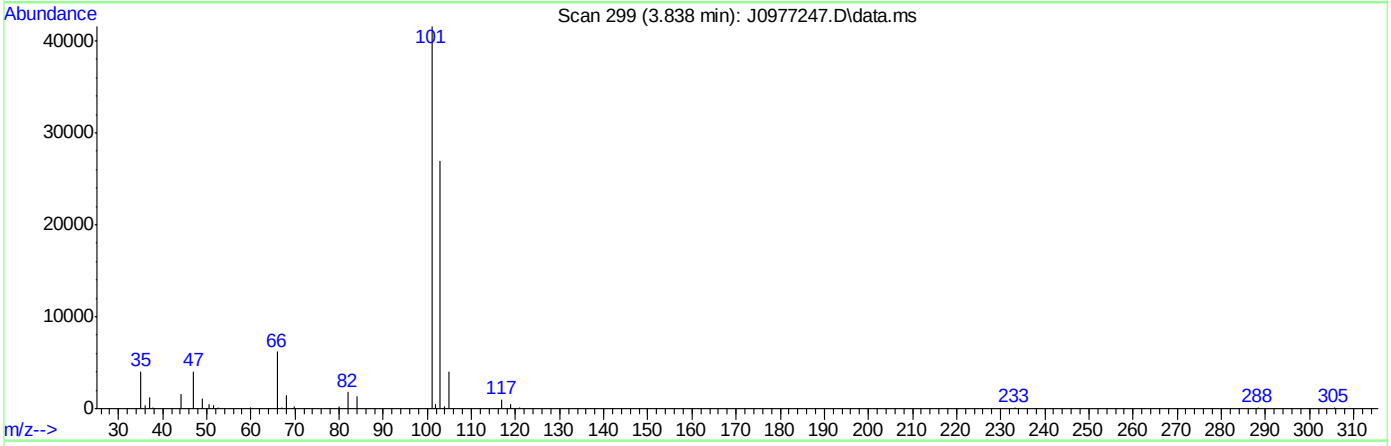
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.25	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977247.D
Acq On : 16 Jun 2016 8:55 pm
Operator : darshnap
Sample : ecc5333-5 Inst : MSVOA6
Misc : MS34165,VJ5335,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 07:29:25 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977247.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.005) 24.12ug/L

response 127814

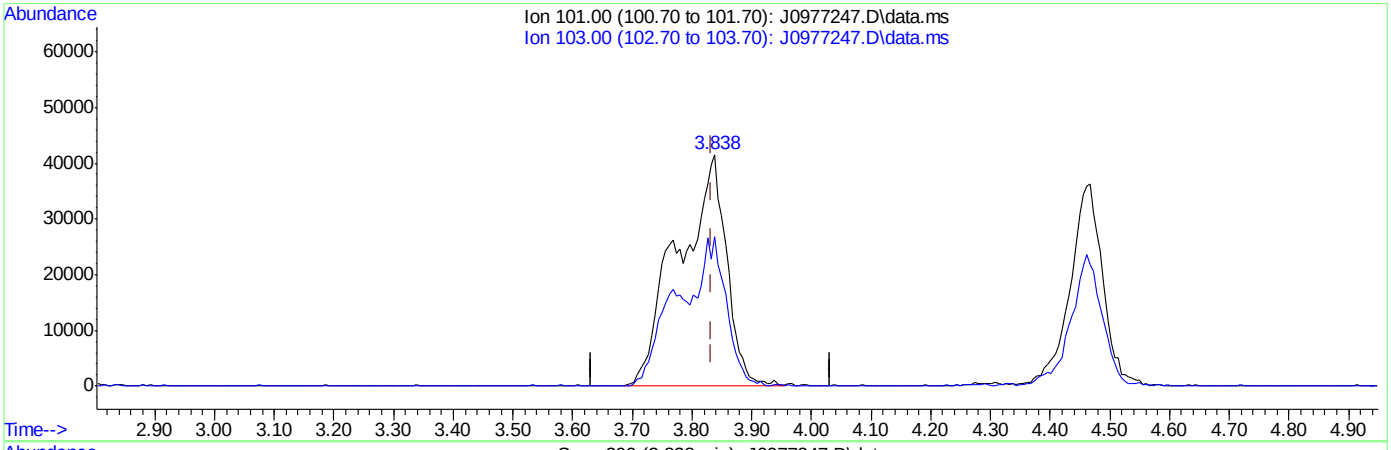
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	64.17
0.00	0.00	0.00
0.00	0.00	0.00

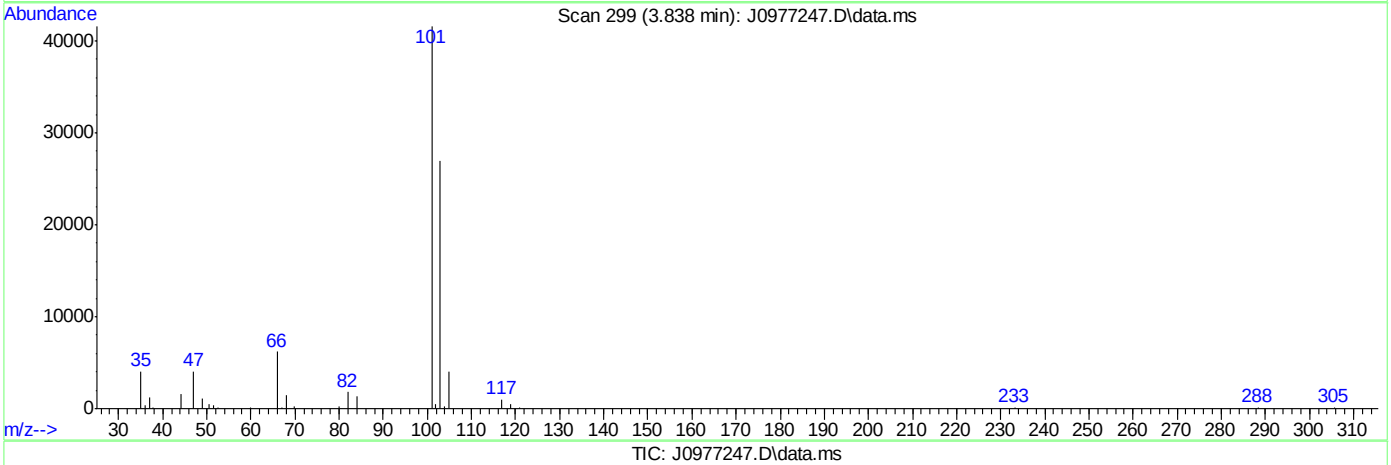
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977247.D
Acq On : 16 Jun 2016 8:55 pm
Operator : darshnap
Sample : ecc5333-5 Inst : MSVOA6
Misc : MS34165,VJ5335,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 07:29:25 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977247.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.005) 44.49ug/L m

response 233457

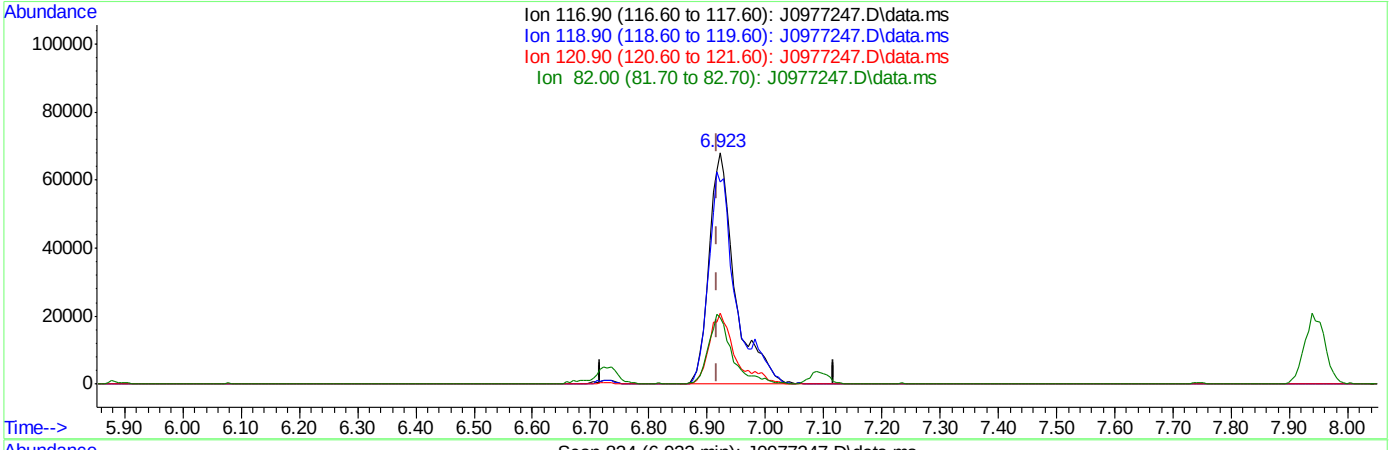
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	64.75
0.00	0.00	0.00
0.00	0.00	0.00

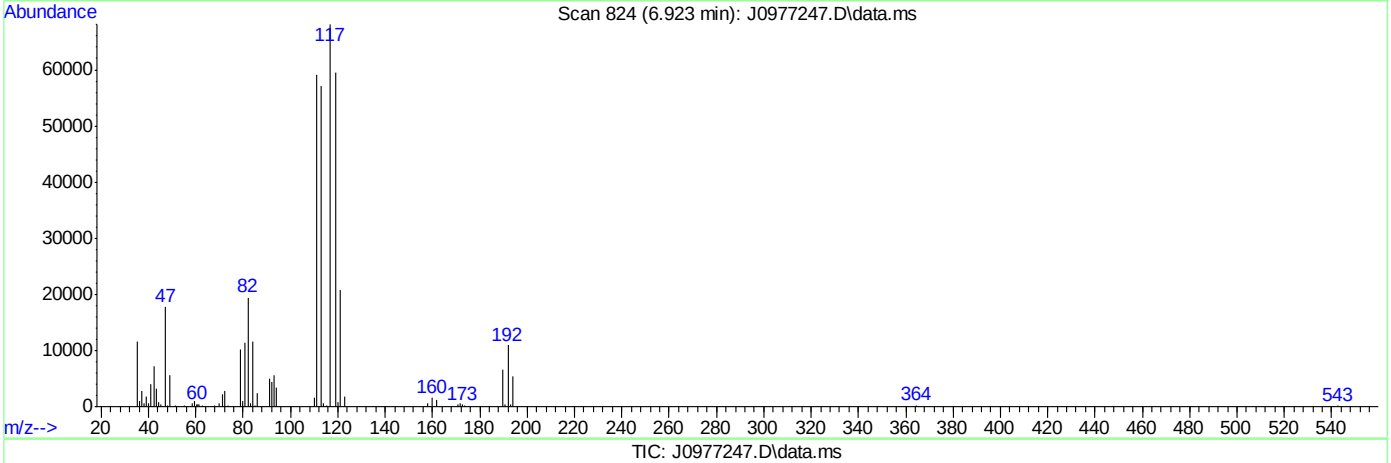
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977247.D
Acq On : 16 Jun 2016 8:55 pm
Operator : darshnap
Sample : ecc5333-5 Inst : MSVOA6
Misc : MS34165,VJ5335,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 07:29:25 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977247.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 49.47ug/L

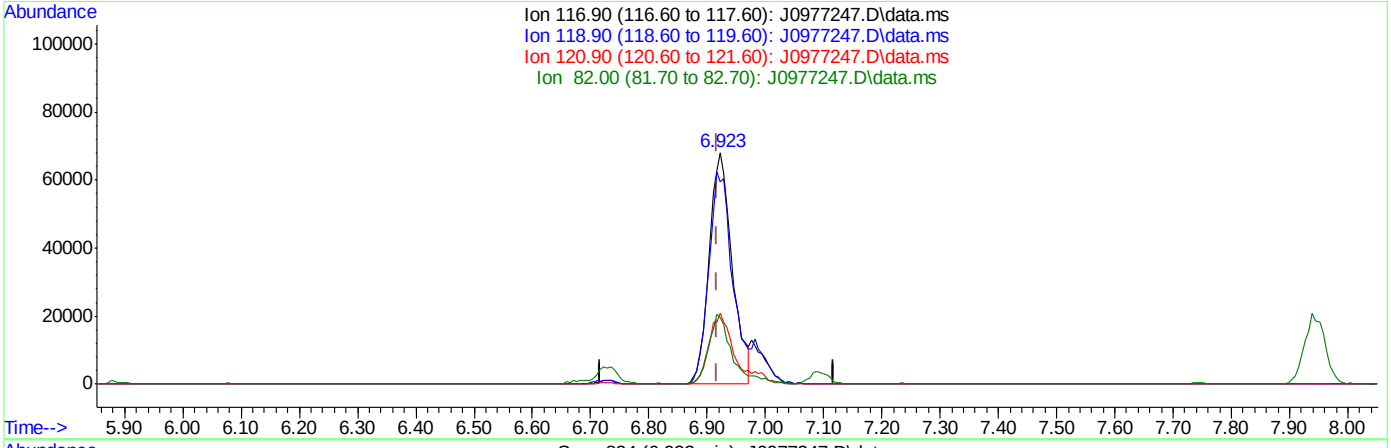
response 210443

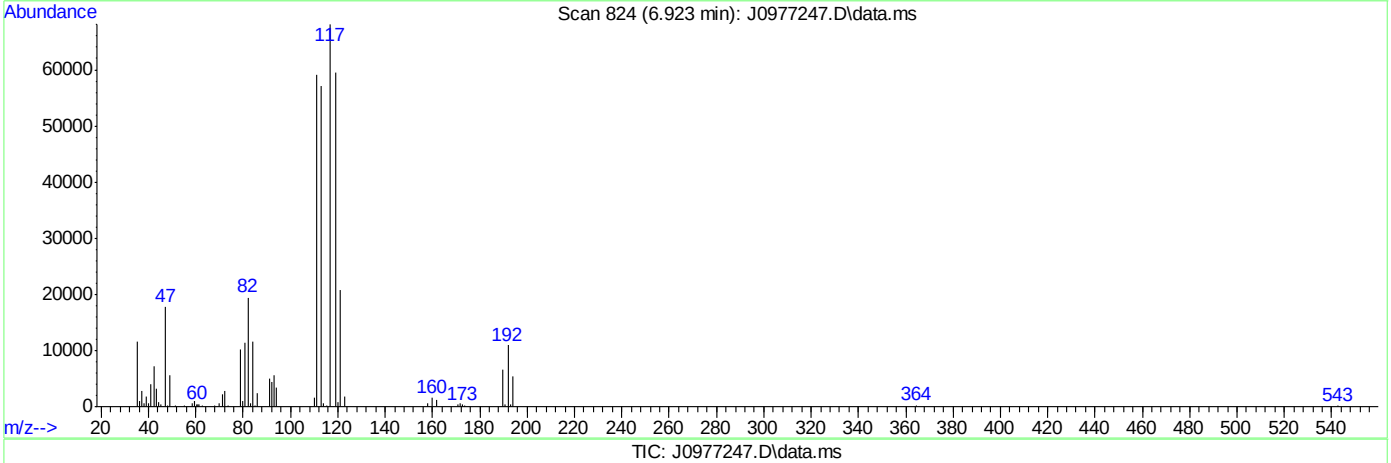
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	87.26
120.90	30.90	30.65
82.00	25.70	28.55

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977247.D
Acq On : 16 Jun 2016 8:55 pm
Operator : darshnap
Sample : ecc5333-5 Inst : MSVOA6
Misc : MS34165,VJ5335,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 07:29:25 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977247.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 43.91ug/L m

response 186822

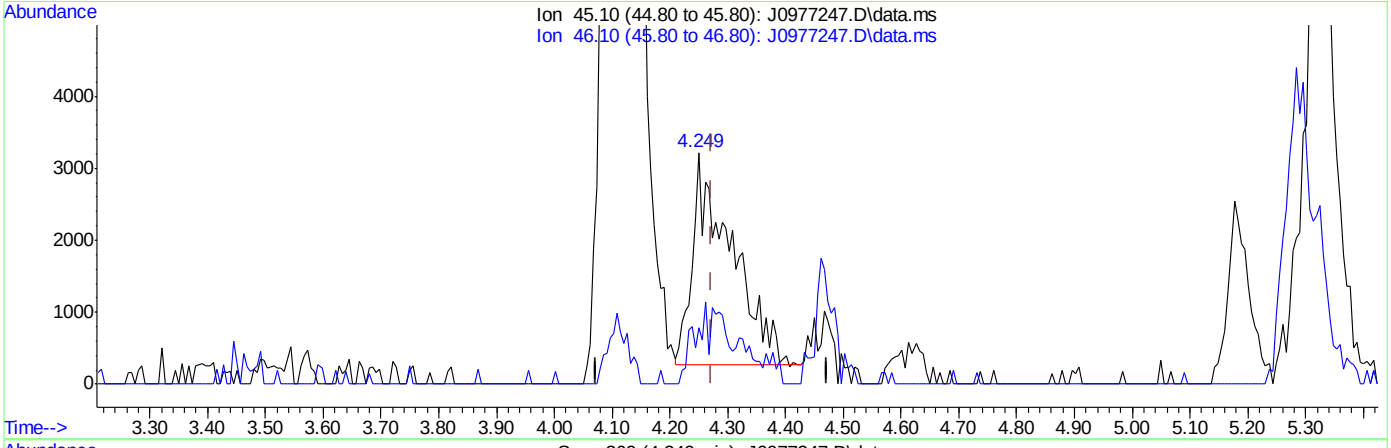
Ion	Exp%	Act%
116.90	100	100
118.90	96.50	87.26
120.90	30.90	30.65
82.00	25.70	28.55

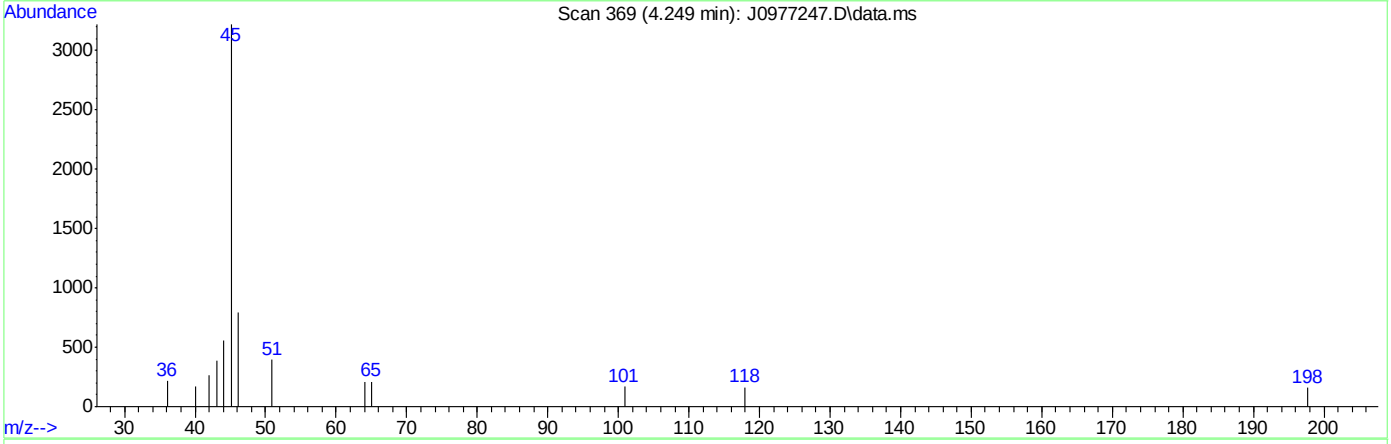
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977247.D
Acq On : 16 Jun 2016 8:55 pm
Operator : darshnap
Sample : ecc5333-5 Inst : MSVOA6
Misc : MS34165,VJ5335,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 07:29:25 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977247.D\data.ms

(107) Ethanol

4.249min (-0.024) 590.64ug/L

response 13888

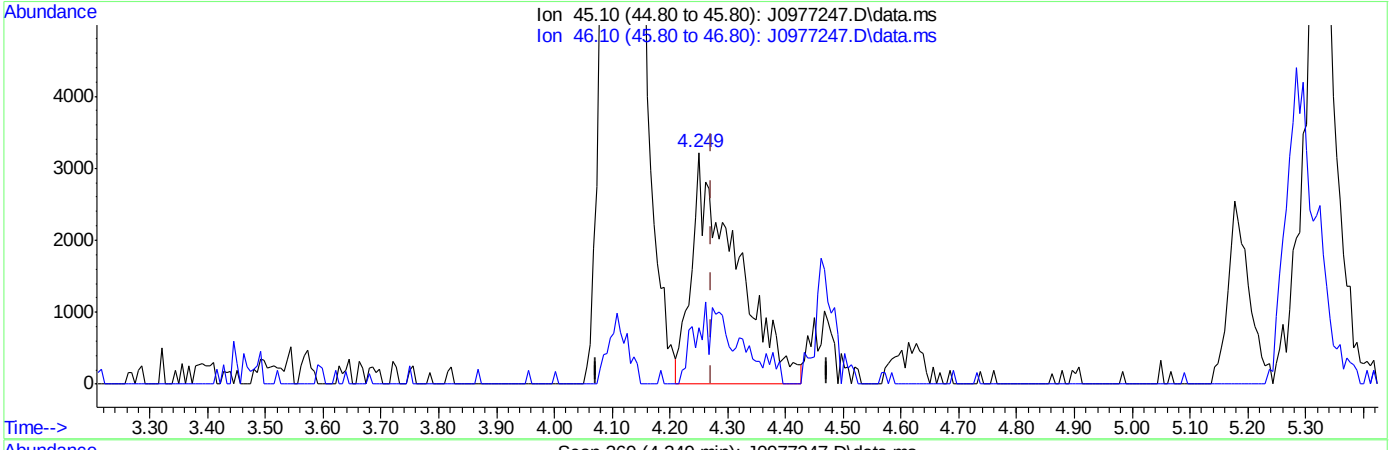
Ion	Exp%	Act%
45.10	100	100
46.10	20.50	26.79
0.00	0.00	0.00
0.00	0.00	0.00

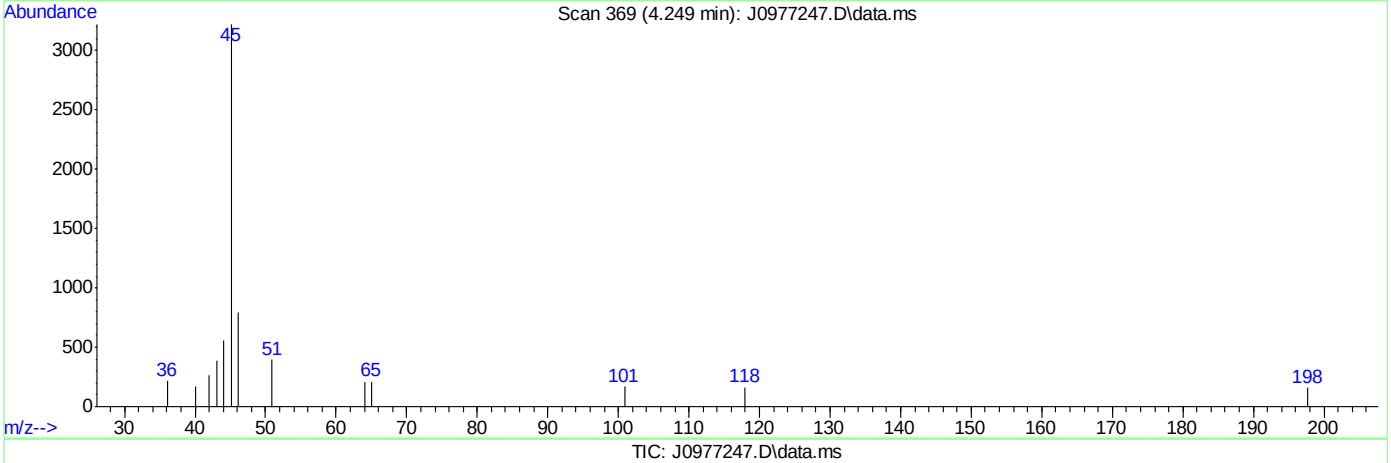
SGS ACCUTEST FA34748

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\061616\
Data File : J0977247.D
Acq On : 16 Jun 2016 8:55 pm
Operator : darshnap
Sample : ecc5333-5 Inst : MSVOA6
Misc : MS34165,VJ5335,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 17 07:29:25 2016
Quant Method : C:\msdchem\1\methods\MSJ061416a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 14 13:17:14 2016
Response via : Initial Calibration





TIC: J0977247.D\data.ms

(107) Ethanol

4.249min (-0.024) 742.17ug/L m

response 17370

Ion	Exp%	Act%
45.10	100	100
46.10	20.50	24.57
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34748

ACCUTEST LABORATORIES SE

DATE:	06-14-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3 psi
ANALYST:	DP

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ061416A.m
CALIB. DATE:	06-14-16
EM VOLTAGE:	~~1541 V~~ 1541 V
BFB RESPONSE:	9518.54
RUN ID:	VJ 5333

STANDARDS

BFB:	V20253D
ICAL/CCV:	V20299 V20313 V20312 V20293 V20245 V20301 V20240 V20246
ISTD/SURR:	~~V20253D~~ 20274 DP 06-14-16
ICV/QC:	V20310 V20277 V20294 V20305
Purge Volume	V20311 V20296 V20300 V20237

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977153	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J 54	BLK			1						✓
J 55	BFB			1						Auto fail
J 56	BFB			1						Auto → Passed
J 57	ICS333-1			1		PII(2)(6)(8)(20)(30)(97)(111)				0.5ul → 50ml
J 58	-2			2		SP(8) PII(107)				2.5ul → 50ml
J 59	-3			3		SP(8) PII(26) (107)				5ul → 50ml
J 60	-4			4		SP(8) PII(107) OP(37)				12.5ul → 50ml
J 61	-5			5		SP(8) PII(107) OP(37)				20ul → 50ml
J 62	-6			6						35ul → 50ml
J 63	-7			7						50ul → 50ml
J 64	BLK			8						✓
J 65	ICV 5333-5			1						25ml → 50ml ✓
J 66	BS			2						12.5ml → 40ml ✓
J 67	MB	↓		3			↓	↓		✓
J 68	FA34681-2, 10x	2		4		5ml → 50ml	4	N	5x	✓
J 69	-3, 10x	2		5		↓ PII(97)	4		5x	✓
J 70	-4	2		6			4			✓
J 71	-5	2		7			4			✓
J 72	-6, 50x	2		8		1ml → 50ml	4		200x	VC↑
J 73	-7, 50x	2		9		↓	4		200x	VC↑
J 74	-8	2		10			4		2x	VC↑
J 75	-9	2		11			4		50x	VC↑
J 76	-10	2		12			4		50x	VC↑
J 77	-11	2		13			4		1x	CC
J 78	-12, 2x	2		14		25ml → 50ml	4			✓
J 79	-13	2	↓	15	↓	PII(7)	4	↓	100x	✓ VC↑

* 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:	06-14-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS060616A.m
CALIB. DATE:	06-14-16
EM VOLTAGE:	1541V
BFB RESPONSE:	951854
RUN ID:	VJ 5333

STANDARDS

BFB:	V20253D
ICAL/CCV:	V20299 V20313 V20312 V20293 V20245 V20301 V20240 V20246
ISTD/SURR:	20274
ICV/QC:	V20310 V20277 V20294 V20305
Purge Volumes	V20311 V20296 V20300 V20237

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 80	FA34681-14	2	420	16	8260		4	N	200x	VC↑
J 81	FA34552-1, 5000x AGA			17		methanol Inj→50ml→10x→5000x	8	N		✓
J 82	FA34681-2MS, 10x	2		18		5ml→50ml SP(8) OP(37) PII(107)	4	N		12.5ml→40ml ✓ ✓
J 83	-2MSD, 10x	2		18		↓ SP(8) OP(37) PII(107)	4	N		✓
J 84	ECC5333-S	—		19		SP(8) OP(37) PII(107)	–	–		20ml→50ml. ✓

06-14-16 DP

* 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: PD

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	06-16-16
COLUMN TYPE:	RTx-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	N-3psi
ANALYST:	DP

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS5061416A.m
CALIB. DATE:	06-14-16
EM VOLTAGE:	1541V
BFB RESPONSE:	809112
RUN ID:	VJ 5335/5336

STANDARDS

BFB:	V20253D
ICAL/CCV:	V20319 V20313 V20301 V20293 V20245 V20312 V20240 V20246
ISTD/SURR:	V20274
ICV/QC:	V20310 V20320 V20305 V20294
Purge Volumes:	V20296 V20311 V20300 V20237

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J09772.15	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J 16	BFB			1						2ul→Auto fail —
J 17	BFB			1						↓ —
J 18	BFB			1						2ul→Auto Pass —
J DP 06-16-16 19 20	BLK CCS333-5			1		SP(57) OP(37) PII(109)				20ul→50ml ✓
J 20 21	BS			1		SP(8) OP(37) PII(107)				12.5ul→40ml ✓
J 21 22	MB	↓		2			↓	↓		ND
J 22 23	FA34748-1 mA	2		1			1	N		✓
J 23 24	-2 mA	2		2			1			✓
J 24 25	-3 mA	1		3			1			ND
J 25 26	-4 mA	2		4			1			✓
J 26 27	-5 mA	2		5			1			✓
J 27 28	-6, 5x mA	2		6		10ml→50ml	1			✓
J 28 29	-7 mA	2		7			1			✓
J 29 30	-8 mA	2		8		PII(109)	1			✓ 1,4 Dioxane ↑
J 30 31	-9, 20x mA	2		9		2.5ml→50ml	1			✓
J 31 32	-10 mA	1		10			1			✓
J 32 33	-11 mA	1		11			1			ND
J 33 34	-12 mA	2		12			1			✓
J 34 35	FA34681-6, 1000x	3		13		50ml→50ml	4			✓
J 35 36	-7, 500x	3		14		~~0.5ml~~ OP 06-16-16 0.1ml→50ml	4			✓
J 36 37	FA34661-1	2		15			1			✓
J 37 38	-2	2		16			1			✓
J 38 39	-3	1		17			1			✓
J 39 40	-4	1		18		PII(76)	1			✓
J 40 41	-5	1		19			1			✓
J 41 42	-6	2		20			1	↓	TOX DP 06-17-16	✓ 1,4 Dioxane ↑

* 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:	06-16-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	(1.3psi)
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ061416A.M
CALIB. DATE:	06-16-16
EM VOLTAGE:	1541 V
BFB RESPONSE:	809112
RUN ID:	VJ 5335 / 5336

STANDARDS

BFB:	V20253D
ICAL/CCV:	V20319 V20313 V20301 V20293 V20245 V20313 V20240 V20246
ISTD/SURR:	V20274
ICV/QC:	V20310 V20320 V20305 V20294
Purge Volume	5ml V20296 V20311 V20300 V20237

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 43	FA34748-1MSMA	3	H2O	21	8260	SP(8) OP(37) PII(107)	1	N		12.5ml→40ml ✓
J 44	DP 06-16-16 -1MSDMA	3		21		SP(8) OP(37) PII(107)	1			✓
J 45	FA34661-3MS	2		22		SP(8) OP(37) PII(107)	1			✓
J 46	-3MSD	2		22		SP(8) OP(37) PII(107)	1			✓
J 47	ECC5332-5	—		23		SP(8) OP(37) PII(107)	—	—		20ml→50ml ✓
J										
J										
J										
J										
J										
J										
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06-16-16 DP

* 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:	06-16-16
COLUMN TYPE:	RTx-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	N-3psi
ANALYST:	DP

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS5061616A.m
CALIB. DATE:	06-16-16
EM VOLTAGE:	1544V
BFB RESPONSE:	809112
RUN ID:	VJ 5335/5336

STANDARDS

BFB:	V20253D
ICAL/CCV:	V20319 V20313 V20301 V20293 V20245 V20313 V20240 V20246
ISTD/SURR:	V20274
ICV/QC:	V20310 V20320 V20305 V20294
Purge Volumes:	V20296 V20311 V20306 V20237

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J09772.15	BLK	N/A	Lqo	1	8260		N/A	N/A		✓
J 16	BFB			1						2ul → Auto fail —
J 17	BFB			1						↓ —
J 18	BFB			1						2ul → Auto Pass —
J DP 06-16-16 19 20	BLK CCS333-5			1		SP(8) OP(37) PII(109)				20ul → 5ml ✓
J 20 21	BS			1		SP(8) OP(37) PII(107)				12.5ul → 40ml ✓
J 21 22	MB	↓		2			↓	↓		ND
J 22 23	FA34748-1 mA	2		1			1	ND		✓
J 23 24	-2 mA	2		2			1			✓
J 24 25	-3 mA	1		3			1			ND
J 25 26	-4 mA	2		4			1			✓
J 26 27	-5 mA	2		5			1			✓
J 27 28	-6, .5x mA	2		6		10ul → 5ml	1			✓
J 28 29	-7 mA	2		7			1			✓
J 29 30	-8 mA	2		8		PII(109)	1			✓ 1,4 Dioxane ↑
J 30 31	-9, 20x mA	2		9		2.5ul → 5ml	1			✓
J 31 32	-10 mA	1		10			1			✓
J 32 33	-11 mA	1		11			1			ND
J 33 34	-12 mA	2		12			1			✓
J 34 35	FA34681-6, 1000x	3		13		5ml → 5ml	4			✓
J 35 36	-7, 500x	3		14		~~0.5ml~~ DP 06-16-16 0.1ml → 5ml	4			✓
J 36 37	FA34661-1	2		15			1			✓
J 37 38	-2	2		16			1			✓
J 38 39	-3	1		17			1			✓
J 39 40	-4	1		18		PII(76)	1			✓
J 40 41	-5	1		19			1			✓
J 41 42	-6	2		20			1	↓	TOX DP 06-17-16	✓ 1,4 Dioxane ↑

* 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:	06-16-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3 psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSTA061416A.M
CALIB. DATE:	06-16-16
EM VOLTAGE:	1541 V
BFB RESPONSE:	809117
RUN ID:	VJ 5335 / 5336

STANDARDS

BFB:	V20253D
ICAL/CCV:	V20319 V20313 V20301 V20293 V20245 V20313 V20240 V20246
ISTD/SURR:	V20274
ICV/QC:	V20310 V20320 V20305 V20294
Purge Volume 5ml	V20296 V20311 V20300 V20237

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 43	FA34748-1MSMA	3	H2O	21	8260	SP(8) OP(37) PII(107)	1	N		12.5ml→40ml
J 44	DP 06-16-16 -3MSDMA	3		21		SP(8) OP(37) PII(107)	1			
J 45	FA34661-3MS	2		22		SP(8) OP(37) PII(107)	1			
J 46	-3MSD	2		22		SP(8) OP(37) PII(107)	1			
J 47	ECC5332-5	—		23		SP(8) OP(37) PII(107)	—	—		20ml→50ml
J										
J										
J										
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J										
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06-16-16
DP

* 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