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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: FA39907

Sampling Dates: 12/20/16 - 12/22/16

Report to:

Anderson, Mulholland & Associates

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ATTN: Haley Royer

Total number of pages in report: 442

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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.

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Sample Summary

Anderson, Mulholland & Associates

Job No: FA39907

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA39907-1	12/20/16	14:11	RSNR	12/23/16	AQ	Ground Water	MW-14
FA39907-2	12/20/16	14:13	RSNR	12/23/16	AQ	Ground Water	MW-18
FA39907-3	12/20/16	14:50	RSNR	12/23/16	AQ	Field Blank Water	FB122016
FA39907-4	12/21/16	10:17	RSNR	12/23/16	AQ	Equipment Blank	EB122116
FA39907-5	12/20/16	14:13	RSNR	12/23/16	AQ	Trip Blank Water	TB122016NRB
FA39907-6	12/20/16	14:11	RSNR	12/23/16	AQ	Trip Blank Water	TB122016RSB
FA39907-7	12/21/16	12:54	RSNR	12/23/16	AQ	Ground Water	BR-1
FA39907-8	12/21/16	13:36	RSNR	12/23/16	AQ	Ground Water	BR-1 DUP
FA39907-9	12/21/16	12:50	RSNR	12/23/16	AQ	Ground Water	BR-2
FA39907-10	12/21/16	14:54	RSNR	12/23/16	AQ	Ground Water	BR-3
FA39907-11	12/21/16	15:14	RSNR	12/23/16	AQ	Ground Water	BR-4
FA39907-12	12/21/16	15:32	RSNR	12/23/16	AQ	Field Blank Water	FB122116
FA39907-13	12/21/16	15:12	RSNR	12/23/16	AQ	Trip Blank Water	TB122116NR

Sample Summary
(continued)

Anderson, Mulholland & Associates

Job No: FA39907

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA39907-14	12/21/16	14:54	RSNR	12/23/16	AQ	Trip Blank Water	TB122116RS
FA39907-15	12/22/16	09:42	RSNR	12/23/16	AQ	Equipment Blank	EB122216
FA39907-16	12/22/16	12:39	RSNR	12/23/16	AQ	Ground Water	RA-10D
FA39907-16D	12/22/16	12:39	RSNR	12/23/16	AQ	Water Dup/MSD	RA-10D
FA39907-16S	12/22/16	12:39	RSNR	12/23/16	AQ	Water Matrix Spike	RA-10D
FA39907-17	12/22/16	14:45	RSNR	12/23/16	AQ	Trip Blank Water	TB122216NRA

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job No:** FA39907

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 1/6/2017 3:11:48 PM

10 Sample(s), 5 Trip Blank(s) and 2 Field Blank(s) were collected on/ between 12/20/2016 and 12/22/2016 and were received at SGS Accutest Southeast (SASE) on 12/23/2016 properly preserved, at 3.2 Deg. C and intact. These Samples received an SASE job number of FA39907. 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:** VJ5531

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA39907-16MS, FA39907-16MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Acetone are outside control limits. % Recovery was within control limits in MS/MSD.

Matrix Spike Recovery(s) for 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,2,4-Trimethylbenzene, 1,2-Dichloropropane, 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Benzene, Ethylbenzene, p-Isopropyltoluene, Tert-Butyl Alcohol, Tetrahydrofuran, Toluene, trans-1,2-Dichloroethylene, trans-1,3-Dichloropropene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for 1,1,2-Trichloroethane, 1,1-Dichloroethane, 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Benzene, Ethylbenzene, Tert-Butyl Alcohol, Tetrahydrofuran, Toluene are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

FA39907-1 for Methyl Bromide: Associated CCV outside control limits.

FA39907-6 for Acetone: Associated BS recovery outside control limits.

FA39907-5 for Methyl Bromide: Associated CCV outside control limits.

FA39907-4 for Methyl Bromide: Associated CCV outside control limits.

FA39907-3 for Methyl Bromide: Associated CCV outside control limits.

FA39907-3 for Acetone: Associated BS recovery outside control limits.

FA39907-6 for Methyl Bromide: Associated CCV outside control limits.

FA39907-2 for Acetone: Associated BS recovery outside control limits.

FA39907-5 for Acetone: Associated BS recovery outside control limits.

FA39907-1 for Acetone: Associated BS recovery outside control limits.

FA39907-2 for Methyl Bromide: Associated CCV outside control limits.

FA39907-10 for Methyl Bromide: Associated CCV outside control limits.

FA39907-13 for Methyl Bromide: Associated CCV outside control limits.

FA39907-13 for Acetone: Associated BS recovery outside control limits.

FA39907-12 for Methyl Bromide: Associated CCV outside control limits.

FA39907-4 for Acetone: Associated BS recovery outside control limits.

FA39907-14 for Acetone: Associated BS recovery outside control limits.

FA39907-7 for Acetone: Associated BS recovery outside control limits.

FA39907-12 for Acetone: Associated BS recovery outside control limits.

FA39907-11 for Acetone: Associated BS recovery outside control limits.

FA39907-10 for Acetone: Associated BS recovery outside control limits.

FA39907-9 for Methyl Bromide: Associated CCV outside control limits.

FA39907-9 for Acetone: Associated BS recovery outside control limits.

FA39907-8 for Methyl Bromide: Associated CCV outside control limits.

FA39907-14 for Methyl Bromide: Associated CCV outside control limits.

FA39907-8 for Acetone: Associated BS recovery outside control limits.

FA39907-7 for Methyl Bromide: Associated CCV outside control limits.

FA39907-11 for Methyl Bromide: Associated CCV outside control limits.

Volatiles by GCMS By Method SW846 8260C

Matrix: AQ **Batch ID:** VJ5532

All samples were analyzed within the recommended method holding time.

Sample(s) FA39942-11MS, FA39942-11MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Matrix Spike Recovery(s) for 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,2,4-Trimethylbenzene, Benzene, Chloroethane, Ethylbenzene, Methyl Chloride, p-Isopropyltoluene, Styrene, Tert-Butyl Alcohol, Tetrahydrofuran, Toluene, trans-1,2-Dichloroethylene, Trichlorofluoromethane, Vinyl Chloride are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

Matrix Spike Duplicate Recovery(s) for Bromoform, Chloroethane, Tert-Butyl Alcohol, Trichlorofluoromethane, Vinyl Chloride are outside control limits. Probable cause is due to matrix interference. For method performance in a clean matrix, refer to Blank Spike.

RPD(s) for MSD for 1,2-Dichlorobenzene, Benzyl Chloride, m,p-Xylene, o-Xylene, Toluene are outside control limits for sample FA39942-11MSD. Probable cause is due to sample non-homogeneity.

FA39907-15 for Methyl Bromide: Associated CCV outside control limits.

FA39907-17 for Methyl Bromide: Associated CCV outside control limits.

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: January 6, 2017

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA39907-16	MSVOA	J0981936.D	Tert-Amyl Alcohol
FA39907-16MS	MSVOA	J0981939.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
FA39907-16MSD	MSVOA	J0981940.D	Ethyl Alcohol, Trichlorofluoromethane
FA39942-11MS	MSVOA	J0981965.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
FA39942-11MSD	MSVOA	J0981966.D	Ethyl Alcohol, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981876.D	1,2-Dichlorotrifluoroethane, 1,4-Dichlorobenzene, 1,4-Dioxane, 1-Chlorohexane, 2-Butanone (MEK), 2-Hexanone, 2-Nitropropane, Acetonitrile, Acrolein, Acrylonitrile, Chloroethane, Cyclohexane, Cyclohexanone, Freon 113, Methyl Bromide, Methyl Methacrylate, o-Chlorotoluene, Styrene, Tert-Butyl Alcohol, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981877.D	Carbon Tetrachloride, Ethyl Alcohol, Methyl Methacrylate, Tetrahydrofuran, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981878.D	Ethyl Alcohol, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981879.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981881.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5529-IC5529	MSVOA	J0981882.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5529-ICC5529	MSVOA	J0981880.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5529-ICV5529	MSVOA	J0981884.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5529-ICV5529	MSVOA	J0981915.D	Dibromofluoromethane, Vinyl Chloride
VJ5530-CC5529	MSVOA	J0981914.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5531-BS	MSVOA	J0981918.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5532-BS	MSVOA	J0981949.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5532-CC5529	MSVOA	J0981946.D	1,2-Dichlorotrifluoroethane, Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane

18 Manual Integrations were found for FA39907

Summary of Hits

Job Number: FA39907
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 12/20/16 thru 12/22/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA39907-1	**MW-14**					
Benzene		0.27 J	1.0	0.20	ug/l	SW846 8260C
Methyl Tert Butyl Ether		0.81 J	1.0	0.20	ug/l	SW846 8260C
FA39907-2	**MW-18**					
No hits reported in this sample.						
FA39907-3	**FB122016**					
No hits reported in this sample.						
FA39907-4	**EB122116**					
No hits reported in this sample.						
FA39907-5	**TB122016NRB**					
Toluene		0.42 J	1.0	0.20	ug/l	SW846 8260C
FA39907-6	**TB122016RSB**					
Toluene		0.31 J	1.0	0.20	ug/l	SW846 8260C
FA39907-7	**BR-1**					
Acetone [a]		12.5 J	25	10	ug/l	SW846 8260C
Chlorobenzene		1.1	1.0	0.20	ug/l	SW846 8260C
Cyclohexane		3.9	1.0	0.26	ug/l	SW846 8260C
1,2-Dichlorobenzene		1.1	1.0	0.27	ug/l	SW846 8260C
1,3-Dichlorobenzene		0.58 J	1.0	0.24	ug/l	SW846 8260C
1,4-Dichlorobenzene		0.56 J	1.0	0.39	ug/l	SW846 8260C
Isopropylbenzene		2.4	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		12.3	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		134	20	9.1	ug/l	SW846 8260C
FA39907-8	**BR-1 DUP**					
Chlorobenzene		1.1	1.0	0.20	ug/l	SW846 8260C
Cyclohexane		4.1	1.0	0.26	ug/l	SW846 8260C
1,2-Dichlorobenzene		1.0	1.0	0.27	ug/l	SW846 8260C
1,4-Dichlorobenzene		0.57 J	1.0	0.39	ug/l	SW846 8260C
Isopropylbenzene		2.7	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		12.8	1.0	0.20	ug/l	SW846 8260C

Summary of Hits

Job Number: FA39907
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 12/20/16 thru 12/22/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Tert-Butyl Alcohol		138	20	9.1	ug/l	SW846 8260C
FA39907-9	**BR-2**					
Chlorobenzene		0.37 J	1.0	0.20	ug/l	SW846 8260C
Cyclohexane		0.60 J	1.0	0.26	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.46 J	1.0	0.27	ug/l	SW846 8260C
Isopropylbenzene		6.0	1.0	0.33	ug/l	SW846 8260C
Methylcyclohexane		0.50 J	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		2.7	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		15.9 J	20	9.1	ug/l	SW846 8260C
FA39907-10	**BR-3**					
Methyl Tert Butyl Ether		0.56 J	1.0	0.20	ug/l	SW846 8260C
FA39907-11	**BR-4**					
No hits reported in this sample.						
FA39907-12	**FB122116**					
No hits reported in this sample.						
FA39907-13	**TB122116NR**					
No hits reported in this sample.						
FA39907-14	**TB122116RS**					
No hits reported in this sample.						
FA39907-15	**EB122216**					
No hits reported in this sample.						
FA39907-16	**RA-10D**					
Benzene		0.77 J	1.0	0.20	ug/l	SW846 8260C
Chlorobenzene		0.29 J	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		14.4	1.0	0.33	ug/l	SW846 8260C
Methylcyclohexane		0.33 J	1.0	0.23	ug/l	SW846 8260C
Methyl Tert Butyl Ether		7.2	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		99.5	20	9.1	ug/l	SW846 8260C
Toluene		0.39 J	1.0	0.20	ug/l	SW846 8260C

Summary of Hits

Job Number: FA39907
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 12/20/16 thru 12/22/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
m,p-Xylene		0.74 J	2.0	0.30	ug/l	SW846 8260C

FA39907-17 **TB122216NRA**

No hits reported in this sample.

(a) Associated BS recovery outside control limits.

Sample Results

Report of Analysis

SGS Accutest LabLink@174214 09:27 12-Jan-2017

Report of Analysis

Client Sample ID:	MW-14		
Lab Sample ID:	FA39907-1	**Date Sampled:**	12/20/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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	J0981922.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	ND	25	10	ug/l	
71-43-2	Benzene	0.27	1.0	0.20	ug/l	J
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	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-14		
Lab Sample ID:	FA39907-1	**Date Sampled:**	12/20/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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 [b]	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	0.81	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	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	MW-18		
Lab Sample ID:	FA39907-2	**Date Sampled:**	12/20/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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	J0981923.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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-18		
Lab Sample ID:	FA39907-2	**Date Sampled:**	12/20/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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 [b]	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	110%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	FB122016		
Lab Sample ID:	FA39907-3	**Date Sampled:**	12/20/16
Matrix:	AQ - Field Blank Water	**Date Received:**	12/23/16
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	J0981924.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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:	FB122016		
Lab Sample ID:	FA39907-3	**Date Sampled:**	12/20/16
Matrix:	AQ - Field Blank Water	**Date Received:**	12/23/16
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 [b]	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	110%		79-125%
2037-26-5	Toluene-D8	98%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	EB122116		
Lab Sample ID:	FA39907-4	**Date Sampled:**	12/21/16
Matrix:	AQ - Equipment Blank	**Date Received:**	12/23/16
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	J0981925.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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:	EB122116		
Lab Sample ID:	FA39907-4	**Date Sampled:**	12/21/16
Matrix:	AQ - Equipment Blank	**Date Received:**	12/23/16
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 [b]	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	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	111%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	TB122016NRB		
Lab Sample ID:	FA39907-5	**Date Sampled:**	12/20/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/16
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	J0981926.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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:	TB122016NRB		
Lab Sample ID:	FA39907-5	**Date Sampled:**	12/20/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/16
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 [b]	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	0.42	1.0	0.20	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	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	113%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	TB122016RSB		
Lab Sample ID:	FA39907-6	**Date Sampled:**	12/20/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/16
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	J0981927.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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 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:	TB122016RSB		
Lab Sample ID:	FA39907-6	**Date Sampled:**	12/20/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/16
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 [b]	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	0.31	1.0	0.20	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	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	113%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	BR-1		
Lab Sample ID:	FA39907-7	**Date Sampled:**	12/21/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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	J0981928.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	12.5	25	10	ug/l	J
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	1.1	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	3.9	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	1.1	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	0.58	1.0	0.24	ug/l	J
106-46-7	1,4-Dichlorobenzene	0.56	1.0	0.39	ug/l	J
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	2.4	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:	BR-1		
Lab Sample ID:	FA39907-7	**Date Sampled:**	12/21/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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 [b]	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	12.3	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	134	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	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	BR-1 DUP		
Lab Sample ID:	FA39907-8	**Date Sampled:**	12/21/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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	J0981929.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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	1.1	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	4.1	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	1.0	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	0.57	1.0	0.39	ug/l	J
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	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:	BR-1 DUP		
Lab Sample ID:	FA39907-8	**Date Sampled:**	12/21/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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 [b]	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	12.8	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	138	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	117%		79-125%
2037-26-5	Toluene-D8	96%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	BR-2		
Lab Sample ID:	FA39907-9	**Date Sampled:**	12/21/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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	J0981930.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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	0.37	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	0.60	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	0.46	1.0	0.27	ug/l	J
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	6.0	1.0	0.33	ug/l	

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

Report of Analysis

Client Sample ID:	BR-2		
Lab Sample ID:	FA39907-9	**Date Sampled:**	12/21/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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 [b]	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	0.50	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	2.7	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	15.9	20	9.1	ug/l	J
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	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	114%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	109%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	BR-3		
Lab Sample ID:	FA39907-10	**Date Sampled:**	12/21/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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	J0981931.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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:	BR-3		
Lab Sample ID:	FA39907-10	**Date Sampled:**	12/21/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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 [b]	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	0.56	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	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	99%		85-112%
460-00-4	4-Bromofluorobenzene	107%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	BR-4		
Lab Sample ID:	FA39907-11	**Date Sampled:**	12/21/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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	J0981932.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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:	BR-4		
Lab Sample ID:	FA39907-11	**Date Sampled:**	12/21/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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 [b]	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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	108%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	FB122116		
Lab Sample ID:	FA39907-12	**Date Sampled:**	12/21/16
Matrix:	AQ - Field Blank Water	**Date Received:**	12/23/16
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	J0981933.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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:	FB122116		
Lab Sample ID:	FA39907-12	**Date Sampled:**	12/21/16
Matrix:	AQ - Field Blank Water	**Date Received:**	12/23/16
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 [b]	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	96%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	TB122116NR		
Lab Sample ID:	FA39907-13	**Date Sampled:**	12/21/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/16
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	J0981934.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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:	TB122116NR		
Lab Sample ID:	FA39907-13	**Date Sampled:**	12/21/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/16
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 [b]	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	97%		83-118%
17060-07-0	1,2-Dichloroethane-D4	113%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	TB122116RS		
Lab Sample ID:	FA39907-14	**Date Sampled:**	12/21/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/16
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	J0981935.D	1	01/03/17	DP	n/a	n/a	VJ5531
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 [a]	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:	TB122116RS		
Lab Sample ID:	FA39907-14	**Date Sampled:**	12/21/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/16
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 [b]	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	98%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	102%		83-118%

(a) Associated BS recovery outside control limits.
(b) Associated CCV outside control limits.

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

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Report of Analysis

Client Sample ID:	EB122216		
Lab Sample ID:	FA39907-15	**Date Sampled:**	12/22/16
Matrix:	AQ - Equipment Blank	**Date Received:**	12/23/16
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	J0981951.D	1	01/04/17	DP	n/a	n/a	VJ5532
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:	EB122216		
Lab Sample ID:	FA39907-15	**Date Sampled:**	12/22/16
Matrix:	AQ - Equipment Blank	**Date Received:**	12/23/16
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 [a]	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	108%		79-125%
2037-26-5	Toluene-D8	97%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(a) Associated CCV outside control limits.

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 LabLink@174214 09:27 12-Jan-2017

Report of Analysis

Client Sample ID:	RA-10D		
Lab Sample ID:	FA39907-16	**Date Sampled:**	12/22/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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	J0981936.D	1	01/03/17	DP	n/a	n/a	VJ5531
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	0.77	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	0.29	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	14.4	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:	RA-10D		
Lab Sample ID:	FA39907-16	**Date Sampled:**	12/22/16
Matrix:	AQ - Ground Water	**Date Received:**	12/23/16
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	0.33	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	7.2	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	99.5	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	0.39	1.0	0.20	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	0.74	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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		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 LabLink@174214 09:27 12-Jan-2017

Report of Analysis

Client Sample ID:	TB122216NRA		
Lab Sample ID:	FA39907-17	**Date Sampled:**	12/22/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/16
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	J0981952.D	1	01/04/17	DP	n/a	n/a	VJ5532
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:	TB122216NRA		
Lab Sample ID:	FA39907-17	**Date Sampled:**	12/22/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/23/16
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 [a]	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	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	110%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	106%		83-118%

(a) Associated CCV outside control limits.

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

ACCUTEST LABORATORIES

FL

CHAIN OF CUSTODY

FA39907

PAGE 1 OF 2

4405 Vineland Road, Suite C-15, Orlando, Florida 32811
TEL: 407-425-6700 / FAX: 407-425-0707
www.accutest.com

FED-EX Tracking # 7780 2803 1156
Bottle Order Control #
Accutest Quote #
Accutest Job #

Client / Reporting Information

Company Name: Anderson Mulholland & Associates
Street Address: 2700 Westchester Avenue, Suite 417
City: Purchase State: NY Zip: 10577
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 Fax #:
Sampler(s) Name(s): Phone #:

Project Information

Project Name: 4th Q 2016 Groundwater Sampling - Onsite Wells
Street:
City: Humacao State: PR
Project #:
Client Purchase Order #:
Project Manager: Terry Taylor
Billing Information (if different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260TCL20	VMS+124TMB	VMS+BNZCHL	VMS+IPTOLU	VMS+TAA	VMS+TBA	VMS+THF	LAB USE ONLY
1	MW-14		12-20-16	1411	RS	GW	3	3								X	X	X	X	X	X	X	
2	MW-18		12-20-16	1413	NR	GW	3	3								X	X	X	X	X	X	X	
3	FB 122016		12-20-16	1450	RS	FB	3	3								X	X	X	X	X	X	X	
4	EB 122116		12-21-16	1017	RS	EB	3	3								X	X	X	X	X	X	X	
5	TB122016NRB		12-20-16	1413		TB	2	2								X	X	X	X	X	X	X	
6	TB122016RSB		12-20-16	1411		TB	2	2								X	X	X	X	X	X	X	
7	BR-1		12-21-16	1254	NR	GW	3	3								X	X	X	X	X	X	X	
8	BR-1 DUP		12-21-16	1336	NR	GW	3	3								X	X	X	X	X	X	X	
9	BR-2		12-21-16	1250	RS	GW	3	3								X	X	X	X	X	X	X	
10	BR-3		12-21-16	1454	RS	GW	3	3								X	X	X	X	X	X	X	
11	BR-4		12-21-16	1512	NR	GW	3	3								X	X	X	X	X	X	X	
12	FB122116		12-21-16	1532	RS	FB	3	3								X	X	X	X	X	X	X	

Turnaround Time (Business days)

- [X] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

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

Comments / Special Instructions

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	12-22-16/2001	1 Fed EX	2 FX	12-23-16	2 J. COPPR/ABSC/ 11:15
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 5	[ ] Intact [ ] Not intact	Preserved where applicable [ ] On Ice [ ] Cooler Temp. 3.2

5.1 5

ACCUTEST LABORATORIES

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CHAIN OF CUSTODY

4405 Vineland Road, Suite C-15, Orlando, Florida 32811
TEL. 407-425-6700 FAX: 407-425-0707
www.accutest.com

FA39907 PAGE 2 OF 2

FedEx Tracking # 7780 2803 1156
Bottle Order Control #
Accutest Quote #
Accutest Job #

Client / Reporting Information

Company Name: Anderson Mulholland & Associates
Street Address: 2700 Westchester Avenue, Suite 417
City: Purchase State: NY Zip: 10577
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 Fax #:
Sampler(s) Name(s): Phone #:

Project Information

Project Name: 4th Q 2016 Groundwater Sampling - Onsite Wells
Street:
City: Humacao State: PR
Project #:
Client Purchase Order #:
Project Manager: Terry Taylor

Billing Information (if different from Report to)

Company Name:
Street Address:
City State Zip
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260TCL20	VMS+124TMB	VMS+BNZCHL	VMS+IPTOLU	VMS+TAA	VMS+TBA	VMS+THF					LAB USE ONLY
13	TB122116NR		12-21-16	1512		TB	2	2								X	X	X	X	X	X	X					
14	TB122116RS		12-21-16	1454		TB	2	2								X	X	X	X	X	X	X					
15	EB122216		12-22-16	942	RS	EB	3	3								X	X	X	X	X	X	X					
16	RA-10D		12-22-16	1239	NR	GW	3	3								X	X	X	X	X	X	X					
16	RA-10D MS		12-22-16	1409	NR	GW	3	3								X	X	X	X	X	X	X					
16	RA-10D MSD		12-22-16	1445	NR	GW	3	3								X	X	X	X	X	X	X					
17	TB122216NRA		12-22-16	1445		TB	2	2								X	X	X	X	X	X	X					

Turnaround Time (Business days)

- [X] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day *RUSH*
- [ ] 5 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [X] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

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

Comments / Special Instructions

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		1 FX	2 FX	12-23-16	2 J. Corral (ALSR) 11:15
3		3	4		4
5		5			

Custody Seal # 571 ☐ Intact ☐ Not intact Preserved where applicable ☐ On Ice ☐ Cooler Temp.

5.1 5

SGS ACCUTEST - ORLANDO SAMPLE RECEIPT CONFIRMATION

SGS ACCUTEST'S JOB NUMBER: FA 39907 CLIENT: ANDERSON PROJECT: 4TH Q 2016

DATE/TIME RECEIVED: 12-23-16 11:15 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 7780 2803 1156

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR -0.4
- [ ] OBSERVED TEMPS: 3.6
- [ ] CORRECTED TEMPS: 3.2 (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 JC 12-23-16 REVIEWER SIGNATURE/DATE KD 12-23-16

NF 02/16 receipt confirmation 020116.xls

5.1 5

FA39907: Chain of Custody
Page 3 of 4

ORIGIN ID:FAJA (787) 487-4290
DAVID LINDSTRAND
ANDERSON MULHOLLAND & ASSOC
IN CARE OF BRISTOL-MYERS SQUIBB
STATE RD #3, KM 77.5
HUMACAO, PR 00791
UNITED STATES US

SHIP DATE: 22DEC16
ACTWGT: 40.00 LB
CAD: 4502055/INET3790
DIMS: 14x14x24 IN

BILL THIRD PARTY
NO EEI 30.37(a)

TO SAMPLE RECEIVING
SGS ACCUTEST
4405 VINELAND RD
STE C15
ORLANDO FL 32811
(407) 424-6700 REF: BMS02E_2016
INV:
PO: DEPT:

(US) 544-J1/DM2F/14E8

FedEx Express

FRI - 23 DEC 10:30A
INTL PRIORITY

TRK# 0430 7780 2803 1156

XH ORLA

32811
FL-US MCO

After printing this label:
CONSIGNEE COPY - PLEASE PLACE IN FRONT OF POUCH
1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

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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: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5531-MB	J0981917.D	1	01/03/17	DP	n/a	n/a	VJ5531

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

FA39907-1, FA39907-2, FA39907-3, FA39907-4, FA39907-5, FA39907-6, FA39907-7, FA39907-8, FA39907-9, FA39907-10, FA39907-11, FA39907-12, FA39907-13, FA39907-14, FA39907-16

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: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5531-MB	J0981917.D	1	01/03/17	DP	n/a	n/a	VJ5531

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

FA39907-1, FA39907-2, FA39907-3, FA39907-4, FA39907-5, FA39907-6, FA39907-7, FA39907-8, FA39907-9, FA39907-10, FA39907-11, FA39907-12, FA39907-13, FA39907-14, FA39907-16

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	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Method Blank Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5532-MB	J0981948.D	1	01/04/17	DP	n/a	n/a	VJ5532

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

FA39907-15, FA39907-17

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: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5532-MB	J0981948.D	1	01/04/17	DP	n/a	n/a	VJ5532

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

FA39907-15, FA39907-17

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	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	111%	79-125%
2037-26-5	Toluene-D8	100%	85-112%
460-00-4	4-Bromofluorobenzene	108%	83-118%

Blank Spike Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5531-BS	J0981918.D	1	01/03/17	DP	n/a	n/a	VJ5531

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

FA39907-1, FA39907-2, FA39907-3, FA39907-4, FA39907-5, FA39907-6, FA39907-7, FA39907-8, FA39907-9, FA39907-10, FA39907-11, FA39907-12, FA39907-13, FA39907-14, FA39907-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	185	148*	50-147
71-43-2	Benzene	25	28.3	113	81-122
100-44-7	Benzyl Chloride	25	22.6	90	54-122
74-97-5	Bromochloromethane	25	24.9	100	76-123
75-27-4	Bromodichloromethane	25	26.1	104	79-123
75-25-2	Bromoform	25	24.4	98	66-123
78-93-3	2-Butanone (MEK)	125	174	139	56-143
75-15-0	Carbon Disulfide	25	24.9	100	66-148
56-23-5	Carbon Tetrachloride	25	27.7	111	76-136
108-90-7	Chlorobenzene	25	26.2	105	82-124
75-00-3	Chloroethane	25	24.5	98	62-144
67-66-3	Chloroform	25	25.5	102	80-124
110-82-7	Cyclohexane	25	27.3	109	73-138
124-48-1	Dibromochloromethane	25	27.0	108	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	24.8	99	64-123
106-93-4	1,2-Dibromoethane	25	27.5	110	75-120
75-71-8	Dichlorodifluoromethane	25	24.8	99	42-167
95-50-1	1,2-Dichlorobenzene	25	25.0	100	82-124
541-73-1	1,3-Dichlorobenzene	25	25.6	102	84-125
106-46-7	1,4-Dichlorobenzene	25	25.0	100	78-120
75-34-3	1,1-Dichloroethane	25	28.3	113	81-122
107-06-2	1,2-Dichloroethane	25	27.5	110	75-125
75-35-4	1,1-Dichloroethylene	25	27.7	111	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.7	103	78-120
156-60-5	trans-1,2-Dichloroethylene	25	26.8	107	76-127
78-87-5	1,2-Dichloropropane	25	27.4	110	76-124
10061-01-5	cis-1,3-Dichloropropene	25	26.6	106	75-118
10061-02-6	trans-1,3-Dichloropropene	25	28.8	115	80-120
100-41-4	Ethylbenzene	25	28.7	115	81-121
76-13-1	Freon 113	25	25.4	102	72-134
591-78-6	2-Hexanone	125	156	125	61-129
98-82-8	Isopropylbenzene	25	26.9	108	83-132
99-87-6	p-Isopropyltoluene	25	29.3	117	79-130
79-20-9	Methyl Acetate	125	138	110	65-126
74-83-9	Methyl Bromide	25	19.2	77	59-143
74-87-3	Methyl Chloride	25	22.5	90	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5531-BS	J0981918.D	1	01/03/17	DP	n/a	n/a	VJ5531

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

FA39907-1, FA39907-2, FA39907-3, FA39907-4, FA39907-5, FA39907-6, FA39907-7, FA39907-8, FA39907-9, FA39907-10, FA39907-11, FA39907-12, FA39907-13, FA39907-14, FA39907-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	27.2	109	76-129
75-09-2	Methylene Chloride	25	26.0	104	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	144	115	66-122
1634-04-4	Methyl Tert Butyl Ether	25	26.1	104	72-117
100-42-5	Styrene	25	27.0	108	78-119
75-85-4	Tert-Amyl Alcohol	250	258	103	65-124
75-65-0	Tert-Butyl Alcohol	250	262	105	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	25.6	102	72-120
127-18-4	Tetrachloroethylene	25	25.9	104	76-135
109-99-9	Tetrahydrofuran	25	26.4	106	56-122
108-88-3	Toluene	25	29.2	117	80-120
87-61-6	1,2,3-Trichlorobenzene	25	25.9	104	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.3	105	73-129
71-55-6	1,1,1-Trichloroethane	25	25.5	102	75-130
79-00-5	1,1,2-Trichloroethane	25	28.1	112	76-119
79-01-6	Trichloroethylene	25	27.1	108	81-126
75-69-4	Trichlorofluoromethane	25	23.7	95	71-156
95-63-6	1,2,4-Trimethylbenzene	25	28.7	115	79-120
75-01-4	Vinyl Chloride	25	22.1	88	69-159
	m,p-Xylene	50	53.4	107	79-126
95-47-6	o-Xylene	25	26.8	107	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	104%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5532-BS	J0981949.D	1	01/04/17	DP	n/a	n/a	VJ5532

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

FA39907-15, FA39907-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	180	144	50-147
71-43-2	Benzene	25	29.9	120	81-122
100-44-7	Benzyl Chloride	25	22.8	91	54-122
74-97-5	Bromochloromethane	25	24.7	99	76-123
75-27-4	Bromodichloromethane	25	26.3	105	79-123
75-25-2	Bromoform	25	22.5	90	66-123
78-93-3	2-Butanone (MEK)	125	168	134	56-143
75-15-0	Carbon Disulfide	25	25.5	102	66-148
56-23-5	Carbon Tetrachloride	25	26.8	107	76-136
108-90-7	Chlorobenzene	25	25.8	103	82-124
75-00-3	Chloroethane	25	28.3	113	62-144
67-66-3	Chloroform	25	26.5	106	80-124
110-82-7	Cyclohexane	25	27.1	108	73-138
124-48-1	Dibromochloromethane	25	25.7	103	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	26.6	106	64-123
106-93-4	1,2-Dibromoethane	25	27.2	109	75-120
75-71-8	Dichlorodifluoromethane	25	24.6	98	42-167
95-50-1	1,2-Dichlorobenzene	25	25.7	103	82-124
541-73-1	1,3-Dichlorobenzene	25	26.7	107	84-125
106-46-7	1,4-Dichlorobenzene	25	25.4	102	78-120
75-34-3	1,1-Dichloroethane	25	29.9	120	81-122
107-06-2	1,2-Dichloroethane	25	28.5	114	75-125
75-35-4	1,1-Dichloroethylene	25	29.7	119	78-137
156-59-2	cis-1,2-Dichloroethylene	25	26.1	104	78-120
156-60-5	trans-1,2-Dichloroethylene	25	29.3	117	76-127
78-87-5	1,2-Dichloropropane	25	28.2	113	76-124
10061-01-5	cis-1,3-Dichloropropene	25	27.5	110	75-118
10061-02-6	trans-1,3-Dichloropropene	25	29.1	116	80-120
100-41-4	Ethylbenzene	25	28.8	115	81-121
76-13-1	Freon 113	25	25.2	101	72-134
591-78-6	2-Hexanone	125	157	126	61-129
98-82-8	Isopropylbenzene	25	27.4	110	83-132
99-87-6	p-Isopropyltoluene	25	30.7	123	79-130
79-20-9	Methyl Acetate	125	141	113	65-126
74-83-9	Methyl Bromide	25	22.0	88	59-143
74-87-3	Methyl Chloride	25	22.0	88	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5532-BS	J0981949.D	1	01/04/17	DP	n/a	n/a	VJ5532

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

FA39907-15, FA39907-17

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	27.5	110	76-129
75-09-2	Methylene Chloride	25	28.6	114	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	140	112	66-122
1634-04-4	Methyl Tert Butyl Ether	25	26.5	106	72-117
100-42-5	Styrene	25	28.7	115	78-119
75-85-4	Tert-Amyl Alcohol	250	237	95	65-124
75-65-0	Tert-Butyl Alcohol	250	242	97	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	26.9	108	72-120
127-18-4	Tetrachloroethylene	25	23.0	92	76-135
109-99-9	Tetrahydrofuran	25	28.5	114	56-122
108-88-3	Toluene	25	28.7	115	80-120
87-61-6	1,2,3-Trichlorobenzene	25	26.0	104	68-131
120-82-1	1,2,4-Trichlorobenzene	25	26.0	104	73-129
71-55-6	1,1,1-Trichloroethane	25	25.7	103	75-130
79-00-5	1,1,2-Trichloroethane	25	29.1	116	76-119
79-01-6	Trichloroethylene	25	27.7	111	81-126
75-69-4	Trichlorofluoromethane	25	26.1	104	71-156
95-63-6	1,2,4-Trimethylbenzene	25	30.0	120	79-120
75-01-4	Vinyl Chloride	25	24.7	99	69-159
	m,p-Xylene	50	54.1	108	79-126
95-47-6	o-Xylene	25	27.1	108	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	79-125%
2037-26-5	Toluene-D8	99%	85-112%
460-00-4	4-Bromofluorobenzene	108%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA39907-16MS	J0981939.D	1	01/03/17	DP	n/a	n/a	VJ5531
FA39907-16MSD	J0981940.D	1	01/03/17	DP	n/a	n/a	VJ5531
FA39907-16	J0981936.D	1	01/03/17	DP	n/a	n/a	VJ5531

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

FA39907-1, FA39907-2, FA39907-3, FA39907-4, FA39907-5, FA39907-6, FA39907-7, FA39907-8, FA39907-9, FA39907-10, FA39907-11, FA39907-12, FA39907-13, FA39907-14, FA39907-16

CAS No.	Compound	FA39907-16 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	140	112	125	144	115	3	50-147/21
71-43-2	Benzene	0.77	J	25	32.7	128*	25	31.7	124*	3	81-122/14
100-44-7	Benzyl Chloride	ND		25	20.7	83	25	19.3	77	7	54-122/18
74-97-5	Bromochloromethane	ND		25	25.0	100	25	25.0	100	0	76-123/14
75-27-4	Bromodichloromethane	ND		25	27.1	108	25	25.5	102	6	79-123/19
75-25-2	Bromoform	ND		25	20.5	82	25	19.1	76	7	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	158	126	125	160	128	1	56-143/18
75-15-0	Carbon Disulfide	ND		25	25.3	101	25	24.1	96	5	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	27.7	111	25	26.1	104	6	76-136/23
108-90-7	Chlorobenzene	0.29	J	25	29.3	116	25	27.9	110	5	82-124/14
75-00-3	Chloroethane	ND		25	20.0	80	25	21.0	84	5	62-144/20
67-66-3	Chloroform	ND		25	27.8	111	25	27.5	110	1	80-124/15
110-82-7	Cyclohexane	ND		25	31.2	125	25	30.2	121	3	73-138/18
124-48-1	Dibromochloromethane	ND		25	24.7	99	25	23.4	94	5	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	28.0	112	25	28.1	112	0	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	29.8	119	25	29.2	117	2	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	25.9	104	25	25.1	100	3	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	28.5	114	25	27.8	111	2	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	29.1	116	25	28.1	112	3	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	28.2	113	25	26.6	106	6	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	33.5	134*	25	31.3	125*	7	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	31.0	124	25	29.7	119	4	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	32.2	129	25	31.5	126	2	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	28.1	112	25	27.9	112	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	31.9	128*	25	30.9	124	3	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	32.1	128*	25	30.4	122	5	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	28.5	114	25	25.8	103	10	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	32.0	128*	25	28.0	112	13	80-120/22
100-41-4	Ethylbenzene	ND		25	34.3	137*	25	32.1	128*	7	81-121/14
76-13-1	Freon 113	ND		25	28.1	112	25	26.1	104	7	72-134/20
591-78-6	2-Hexanone	ND		125	173	138*	125	167	134*	4	61-129/18
98-82-8	Isopropylbenzene	14.4		25	46.0	126	25	42.4	112	8	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	33.5	134*	25	31.9	128	5	79-130/16
79-20-9	Methyl Acetate	ND		125	123	98	125	126	101	2	65-126/18
74-83-9	Methyl Bromide	ND		25	14.9	60	25	16.3	65	9	59-143/19
74-87-3	Methyl Chloride	ND		25	24.2	97	25	24.2	97	0	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA39907-16MS	J0981939.D	1	01/03/17	DP	n/a	n/a	VJ5531
FA39907-16MSD	J0981940.D	1	01/03/17	DP	n/a	n/a	VJ5531
FA39907-16	J0981936.D	1	01/03/17	DP	n/a	n/a	VJ5531

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

FA39907-1, FA39907-2, FA39907-3, FA39907-4, FA39907-5, FA39907-6, FA39907-7, FA39907-8, FA39907-9, FA39907-10, FA39907-11, FA39907-12, FA39907-13, FA39907-14, FA39907-16

CAS No.	Compound	FA39907-16 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	0.33	J	25	30.1	119	25	29.3	116	3	76-129/17
75-09-2	Methylene Chloride	ND		25	29.9	120	25	29.9	120	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	169	135*	125	160	128*	5	66-122/16
1634-04-4	Methyl Tert Butyl Ether	7.2		25	34.9	111	25	33.2	104	5	72-117/14
100-42-5	Styrene	ND		25	26.7	107	25	23.3	93	14	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	255	102	250	251	100	2	65-124/23
75-65-0	Tert-Butyl Alcohol	99.5		250	474	150*	250	500	160*	5	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	29.8	119	25	29.1	116	2	72-120/14
127-18-4	Tetrachloroethylene	ND		25	25.1	100	25	23.3	93	7	76-135/16
109-99-9	Tetrahydrofuran	ND		25	32.3	129*	25	33.9	136*	5	56-122/21
108-88-3	Toluene	0.39	J	25	33.4	132*	25	32.0	126*	4	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	27.8	111	25	27.8	111	0	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	28.0	112	25	28.0	112	0	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	27.3	109	25	27.4	110	0	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	32.6	130*	25	31.2	125*	4	76-119/14
79-01-6	Trichloroethylene	ND		25	30.3	121	25	29.7	119	2	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	23.2	93	25	23.9	96	3	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	31.2	125*	25	29.9	120	4	79-120/18
75-01-4	Vinyl Chloride	ND		25	21.0	84	25	23.1	92	10	69-159/18
	m,p-Xylene	0.74	J	50	63.7	126	50	59.0	117	8	79-126/15
95-47-6	o-Xylene	ND		25	31.5	126	25	28.8	115	9	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA39907-16	Limits
1868-53-7	Dibromofluoromethane	98%	97%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	109%	115%	79-125%
2037-26-5	Toluene-D8	104%	101%	100%	85-112%
460-00-4	4-Bromofluorobenzene	103%	107%	106%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA39942-11MS	J0981965.D	1	01/04/17	DP	n/a	n/a	VJ5532
FA39942-11MSD	J0981966.D	1	01/04/17	DP	n/a	n/a	VJ5532
FA39942-11	J0981963.D	1	01/04/17	DP	n/a	n/a	VJ5532

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

FA39907-15, FA39907-17

CAS No.	Compound	FA39942-11 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	128	102	125	123	98	4	50-147/21
71-43-2	Benzene	ND		25	32.2	129*	25	28.8	115	11	81-122/14
100-44-7	Benzyl Chloride	ND		25	21.2	85	25	17.4	70	20*	54-122/18
74-97-5	Bromochloromethane	ND		25	23.9	96	25	21.7	87	10	76-123/14
75-27-4	Bromodichloromethane	ND		25	25.8	103	25	21.7	87	17	79-123/19
75-25-2	Bromoform	ND		25	18.5	74	25	15.9	64*	15	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	143	114	125	132	106	8	56-143/18
75-15-0	Carbon Disulfide	ND		25	24.7	99	25	20.4	82	19	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	24.8	99	25	21.6	86	14	76-136/23
108-90-7	Chlorobenzene	ND		25	27.7	111	25	24.0	96	14	82-124/14
75-00-3	Chloroethane	ND		25	48.4	194*	25	40.0	160*	19	62-144/20
67-66-3	Chloroform	ND		25	27.4	110	25	23.8	95	14	80-124/15
110-82-7	Cyclohexane	ND		25	30.0	120	25	26.3	105	13	73-138/18
124-48-1	Dibromochloromethane	ND		25	23.9	96	25	19.7	79	19	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	24.9	100	25	24.8	99	0	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	27.4	110	25	24.9	100	10	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	35.7	143	25	33.9	136	5	42-167/19
95-50-1	1,2-Dichlorobenzene	6.6		25	34.3	111	25	29.0	90	17*	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	28.3	113	25	24.6	98	14	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	28.5	114	25	24.5	98	15	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	32.5	130*	25	28.6	114	13	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	29.8	119	25	25.8	103	14	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	31.7	127	25	28.5	114	11	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	27.5	110	25	24.3	97	12	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	32.3	129*	25	27.3	109	17	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	29.7	119	25	26.7	107	11	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	27.6	110	25	22.7	91	19	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	29.7	119	25	24.2	97	20	80-120/22
100-41-4	Ethylbenzene	ND		25	32.0	128*	25	28.0	112	13	81-121/14
76-13-1	Freon 113	16.5		25	43.9	110	25	38.5	88	13	72-134/20
591-78-6	2-Hexanone	ND		125	152	122	125	137	110	10	61-129/18
98-82-8	Isopropylbenzene	ND		25	29.6	118	25	25.4	102	15	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	33.3	133*	25	28.3	113	16	79-130/16
79-20-9	Methyl Acetate	ND		125	140	112	125	123	98	13	65-126/18
74-83-9	Methyl Bromide	ND		25	32.7	131	25	29.0	116	12	59-143/19
74-87-3	Methyl Chloride	ND		25	42.9	172*	25	37.8	151	13	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA39942-11MS	J0981965.D	1	01/04/17	DP	n/a	n/a	VJ5532
FA39942-11MSD	J0981966.D	1	01/04/17	DP	n/a	n/a	VJ5532
FA39942-11	J0981963.D	1	01/04/17	DP	n/a	n/a	VJ5532

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

FA39907-15, FA39907-17

CAS No.	Compound	FA39942-11 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		25	30.4	122	25	26.2	105	15	76-129/17
75-09-2	Methylene Chloride	ND		25	30.3	121	25	26.3	105	14	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	148	118	125	131	105	12	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		25	27.0	108	25	23.9	96	12	72-117/14
100-42-5	Styrene	ND		25	30.3	121*	25	25.6	102	17	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	251	100	250	213	85	16	65-124/23
75-65-0	Tert-Butyl Alcohol	ND		250	399	160*	250	346	138*	14	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	29.7	119	25	26.2	105	13	72-120/14
127-18-4	Tetrachloroethylene	ND		25	22.5	90	25	19.8	79	13	76-135/16
109-99-9	Tetrahydrofuran	ND		25	32.8	131*	25	29.2	117	12	56-122/21
108-88-3	Toluene	ND		25	32.4	130*	25	27.6	110	16*	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	26.5	106	25	24.1	96	9	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	26.4	106	25	23.9	96	10	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	25.8	103	25	23.0	92	11	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	30.6	122*	25	26.6	106	14	76-119/14
79-01-6	Trichloroethylene	ND		25	29.9	120	25	26.3	105	13	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	48.0	192*	25	42.6	170*	12	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	32.8	131*	25	28.1	112	15	79-120/18
75-01-4	Vinyl Chloride	ND		25	44.0	176*	25	41.1	164*	7	69-159/18
	m,p-Xylene	ND		50	59.2	118	50	49.9	100	17*	79-126/15
95-47-6	o-Xylene	ND		25	29.3	117	25	24.7	99	17*	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA39942-11	Limits
1868-53-7	Dibromofluoromethane	93%	101%	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	108%	109%	107%	79-125%
2037-26-5	Toluene-D8	102%	99%	101%	85-112%
460-00-4	4-Bromofluorobenzene	104%	105%	106%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5529-BFB
Lab File ID: J0981875.D
Instrument ID: GCMSJ
Injection Date: 12/30/16
Injection Time: 12:21

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	29543	18.2		Pass
75	30.0 - 60.0% of mass 95	77797	47.9		Pass
95	Base peak, 100% relative abundance	162453	100.0		Pass
96	5.0 - 9.0% of mass 95	9903	6.10		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	138717	85.4		Pass
175	5.0 - 9.0% of mass 174	9378	5.77	(6.76) [a]	Pass
176	95.0 - 101.0% of mass 174	135477	83.4	(97.7) [a]	Pass
177	5.0 - 9.0% of mass 176	9616	5.92	(7.10) [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
VJ5529-IC5529	J0981876.D	12/30/16	12:50	00:29	Initial cal 1
VJ5529-IC5529	J0981877.D	12/30/16	13:13	00:52	Initial cal 2
VJ5529-IC5529	J0981878.D	12/30/16	13:37	01:16	Initial cal 3
VJ5529-IC5529	J0981879.D	12/30/16	14:00	01:39	Initial cal 4
VJ5529-ICC5529	J0981880.D	12/30/16	14:24	02:03	Initial cal 5
VJ5529-IC5529	J0981881.D	12/30/16	14:48	02:27	Initial cal 6
VJ5529-IC5529	J0981882.D	12/30/16	15:11	02:50	Initial cal 7
VJ5529-ICV5529	J0981884.D	12/30/16	15:58	03:37	Initial cal verification 5

Instrument Performance Check (BFB)

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5530-BFB
Lab File ID: J0981913.D
Instrument ID: GCMSJ
Injection Date: 01/03/17
Injection Time: 08:36

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	34517	20.1		Pass
75	30.0 - 60.0% of mass 95	82979	48.4		Pass
95	Base peak, 100% relative abundance	171349	100.0		Pass
96	5.0 - 9.0% of mass 95	10981	6.41		Pass
173	Less than 2.0% of mass 174	188	0.11	(0.14) [a]	Pass
174	50.0 - 100.0% of mass 95	138147	80.6		Pass
175	5.0 - 9.0% of mass 174	10114	5.90	(7.32) [a]	Pass
176	95.0 - 101.0% of mass 174	133837	78.1	(96.9) [a]	Pass
177	5.0 - 9.0% of mass 176	8421	4.91	(6.29) [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
VJ5530-CC5529	J0981914.D	01/03/17	09:16	00:40	Continuing cal 5
VJ5529-ICV5529	J0981915.D	01/03/17	09:52	01:16	Initial cal verification 5
VJ5530-MB	J0981917.D	01/03/17	10:39	02:03	Method Blank
VJ5531-MB	J0981917.D	01/03/17	10:39	02:03	Method Blank
VJ5531-BS	J0981918.D	01/03/17	11:15	02:39	Blank Spike
VJ5530-BS	J0981918.D	01/03/17	11:15	02:39	Blank Spike
ZZZZZZ	J0981919.D	01/03/17	12:05	03:29	(unrelated sample)
FA40012-1	J0981920.D	01/03/17	12:29	03:53	(used for QC only; not part of job FA39907)
FA39907-1	J0981922.D	01/03/17	13:16	04:40	MW-14
FA39907-2	J0981923.D	01/03/17	13:39	05:03	MW-18
FA39907-3	J0981924.D	01/03/17	14:03	05:27	FB122016
FA39907-4	J0981925.D	01/03/17	14:26	05:50	EB122116
FA39907-5	J0981926.D	01/03/17	14:50	06:14	TB122016NRB
FA39907-6	J0981927.D	01/03/17	15:14	06:38	TB122016RSB
FA39907-7	J0981928.D	01/03/17	15:38	07:02	BR-1
FA39907-8	J0981929.D	01/03/17	16:01	07:25	BR-1 DUP
FA39907-9	J0981930.D	01/03/17	16:25	07:49	BR-2
FA39907-10	J0981931.D	01/03/17	16:48	08:12	BR-3
FA39907-11	J0981932.D	01/03/17	17:12	08:36	BR-4
FA39907-12	J0981933.D	01/03/17	17:36	09:00	FB122116
FA39907-13	J0981934.D	01/03/17	18:00	09:24	TB122116NR
FA39907-14	J0981935.D	01/03/17	18:23	09:47	TB122116RS
FA39907-16	J0981936.D	01/03/17	18:47	10:11	RA-10D
ZZZZZZ	J0981938.D	01/03/17	19:34	10:58	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5530-BFB
Lab File ID: J0981913.D
Instrument ID: GCMSJ
Injection Date: 01/03/17
Injection Time: 08:36

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA39907-16MS	J0981939.D	01/03/17	19:57	11:21	Matrix Spike
FA39907-16MSD	J0981940.D	01/03/17	20:21	11:45	Matrix Spike Duplicate
FA40012-1MS	J0981941.D	01/03/17	20:44	12:08	Matrix Spike
FA40012-1MSD	J0981942.D	01/03/17	21:08	12:32	Matrix Spike Duplicate
VJ5530-ECC5529	J0981943.D	01/03/17	21:32	12:56	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5532-BFB
Lab File ID: J0981945.D
Instrument ID: GCMSJ
Injection Date: 01/04/17
Injection Time: 08:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	35117	21.9		Pass
75	30.0 - 60.0% of mass 95	79232	49.5		Pass
95	Base peak, 100% relative abundance	160107	100.0		Pass
96	5.0 - 9.0% of mass 95	11632	7.27		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	119813	74.8		Pass
175	5.0 - 9.0% of mass 174	8617	5.38	(7.19) [a]	Pass
176	95.0 - 101.0% of mass 174	115707	72.3	(96.6) [a]	Pass
177	5.0 - 9.0% of mass 176	7338	4.58	(6.34) [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
VJ5532-CC5529	J0981946.D	01/04/17	08:58	00:45	Continuing cal 5
VJ5532-MB	J0981948.D	01/04/17	10:05	01:52	Method Blank
VJ5532-BS	J0981949.D	01/04/17	10:45	02:32	Blank Spike
ZZZZZZ	J0981950.D	01/04/17	11:25	03:12	(unrelated sample)
FA39907-15	J0981951.D	01/04/17	11:49	03:36	EB122216
FA39907-17	J0981952.D	01/04/17	12:13	04:00	TB122216NRA
ZZZZZZ	J0981953.D	01/04/17	12:36	04:23	(unrelated sample)
ZZZZZZ	J0981954.D	01/04/17	13:00	04:47	(unrelated sample)
ZZZZZZ	J0981955.D	01/04/17	13:23	05:10	(unrelated sample)
ZZZZZZ	J0981956.D	01/04/17	13:46	05:33	(unrelated sample)
ZZZZZZ	J0981957.D	01/04/17	14:09	05:56	(unrelated sample)
ZZZZZZ	J0981958.D	01/04/17	14:33	06:20	(unrelated sample)
ZZZZZZ	J0981959.D	01/04/17	14:56	06:43	(unrelated sample)
ZZZZZZ	J0981960.D	01/04/17	15:20	07:07	(unrelated sample)
ZZZZZZ	J0981962.D	01/04/17	16:07	07:54	(unrelated sample)
FA39942-11	J0981963.D	01/04/17	16:31	08:18	(used for QC only; not part of job FA39907)
ZZZZZZ	J0981964.D	01/04/17	16:54	08:41	(unrelated sample)
FA39942-11MS	J0981965.D	01/04/17	17:18	09:05	Matrix Spike
FA39942-11MSD	J0981966.D	01/04/17	17:41	09:28	Matrix Spike Duplicate
VJ5532-ECC5529	J0981967.D	01/04/17	18:04	09:51	Ending cal 5

Volatile Internal Standard Area Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5530-CC5529	**Injection Date:**	01/03/17
Lab File ID:	J0981914.D	**Injection Time:**	09:16
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]	659574	7.73	466497	10.82	258974	13.18	83169	5.28
Check Std [b]	742866	7.73	531185	10.82	290691	13.19	94854	5.28
Upper Limit [c]	1485732	8.23	1062370	11.32	581382	13.69	189708	5.78
Lower Limit [d]	371433	7.23	265593	10.32	145346	12.69	47427	4.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5531-MB	721042	7.73	522072	10.82	275491	13.19	98353	5.28
VJ5530-MB	721042	7.73	522072	10.82	275491	13.19	98353	5.28
VJ5531-BS	739069	7.73	520457	10.82	286971	13.19	90045	5.28
VJ5530-BS	739069	7.73	520457	10.82	286971	13.19	90045	5.28
ZZZZZZ	740455	7.73	542048	10.82	276074	13.19	77635	5.28
FA40012-1	686355	7.73	514503	10.82	258723	13.19	79384	5.28
FA39907-1	652362	7.73	474595	10.82	245097	13.19	80992	5.27
FA39907-2	663273	7.73	481266	10.82	240237	13.19	76728	5.27
FA39907-3	620190	7.73	458842	10.82	232178	13.19	79974	5.27
FA39907-4	603353	7.73	438249	10.82	217001	13.19	80024	5.27
FA39907-5	590237	7.73	430608	10.82	212100	13.19	74524	5.27
FA39907-6	587803	7.73	425527	10.82	210004	13.19	75059	5.28
FA39907-7	584839	7.73	414747	10.82	206463	13.19	75847	5.27
FA39907-8	545133	7.73	408617	10.82	202977	13.19	74355	5.28
FA39907-9	553814	7.73	401555	10.82	197686	13.19	78646	5.28
FA39907-10	574778	7.73	416675	10.82	205336	13.19	81602	5.27
FA39907-11	564383	7.73	403934	10.82	198953	13.19	78632	5.28
FA39907-12	551869	7.73	392866	10.82	201851	13.19	73333	5.27
FA39907-13	562585	7.73	399508	10.82	191266	13.19	77341	5.27
FA39907-14	537493	7.73	381837	10.82	191372	13.19	75275	5.28
FA39907-16	509131	7.73	371728	10.82	184342	13.19	67891	5.28
ZZZZZZ	554437	7.73	397790	10.82	204752	13.19	76375	5.28
FA39907-16MS	540182	7.73	363171	10.82	201579	13.19	74692	5.27
FA39907-16MSD	597411	7.73	415456	10.82	220405	13.18	83453	5.28
FA40012-1MS	642750	7.73	448726	10.82	240274	13.19	91896	5.27
FA40012-1MSD	697790	7.73	486867	10.82	259163	13.18	98939	5.27
VJ5530-ECC5529	665139	7.73	466783	10.82	254179	13.19	88420	5.28

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

Volatile Internal Standard Area Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5530-CC5529	**Injection Date:**	01/03/17
Lab File ID:	J0981914.D	**Injection Time:**	09:16
Instrument ID:	GCMSJ	**Method:**	SW846 8260C

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

(a) Initial Cal is: VJ5529-ICC5529 J0981880.D 12/30/16 14:24
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5532-CC5529	**Injection Date:**	01/04/17
Lab File ID:	J0981946.D	**Injection Time:**	08:58
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]	659574	7.73	466497	10.82	258974	13.18	83169	5.28
Check Std [b]	712752	7.73	487238	10.82	269420	13.19	89750	5.28
Upper Limit [c]	1425504	8.23	974476	11.32	538840	13.69	179500	5.78
Lower Limit [d]	356376	7.23	243619	10.32	134710	12.69	44875	4.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5532-MB	689021	7.73	502430	10.82	249510	13.18	91781	5.27
VJ5532-BS	699585	7.73	499595	10.82	259936	13.19	90150	5.27
ZZZZZZ	693102	7.73	492139	10.82	245507	13.19	95299	5.27
FA39907-15	643415	7.73	475141	10.82	230702	13.19	91276	5.28
FA39907-17	641756	7.73	455162	10.82	232787	13.18	81791	5.27
ZZZZZZ	608432	7.73	434457	10.82	217301	13.19	75605	5.28
ZZZZZZ	571576	7.73	425793	10.82	206427	13.19	70596	5.27
ZZZZZZ	559079	7.73	410790	10.82	193897	13.19	69735	5.27
ZZZZZZ	550452	7.73	380088	10.82	186010	13.19	69159	5.27
ZZZZZZ	544671	7.73	387279	10.82	193577	13.19	71190	5.27
ZZZZZZ	531648	7.73	384892	10.82	180987	13.19	70285	5.28
ZZZZZZ	525541	7.73	374463	10.82	181295	13.19	71461	5.28
ZZZZZZ	529070	7.73	377248	10.82	187303	13.19	67836	5.28
ZZZZZZ	517012	7.73	369276	10.82	183807	13.19	68519	5.28
FA39942-11	523142	7.73	364363	10.82	182353	13.19	69720	5.28
ZZZZZZ	520001	7.73	355901	10.82	169968	13.19	69965	5.27
FA39942-11MS	520604	7.73	358017	10.82	186746	13.19	66808	5.27
FA39942-11MSD	593877	7.73	418104	10.82	217321	13.19	83240	5.27
VJ5532-ECC5529	527220	7.73	369693	10.82	201240	13.18	67149	5.28

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

(a) Initial Cal is: VJ5529-ICC5529 J0981880.D 12/30/16 14:24
(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: FA39907
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
FA39907-1	J0981922.D	104	110	99	104
FA39907-2	J0981923.D	101	110	98	110
FA39907-3	J0981924.D	104	110	98	105
FA39907-4	J0981925.D	100	113	99	111
FA39907-5	J0981926.D	99	113	100	108
FA39907-6	J0981927.D	101	113	102	108
FA39907-7	J0981928.D	100	110	100	108
FA39907-8	J0981929.D	101	117	96	108
FA39907-9	J0981930.D	100	114	99	109
FA39907-10	J0981931.D	100	110	99	107
FA39907-11	J0981932.D	98	113	100	108
FA39907-12	J0981933.D	96	111	101	104
FA39907-13	J0981934.D	97	113	101	110
FA39907-14	J0981935.D	98	115	102	102
FA39907-15	J0981951.D	101	108	97	110
FA39907-16	J0981936.D	99	115	100	106
FA39907-17	J0981952.D	99	110	101	106
FA39907-16MS	J0981939.D	98	108	104	103
FA39907-16MSD	J0981940.D	97	109	101	107
FA39942-11MS	J0981965.D	93	108	102	104
FA39942-11MSD	J0981966.D	101	109	99	105
VJ5531-BS	J0981918.D	97	104	101	101
VJ5531-MB	J0981917.D	99	108	100	103
VJ5532-BS	J0981949.D	99	108	99	108
VJ5532-MB	J0981948.D	102	111	100	108

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: FA39907
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5529-ICC5529
Lab FileID: J0981880.D

Response Factor Report MSVOA6

Method : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624
Last Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Calibration Files
1 =J0981876.D 2 =J0981877.D 3 =J0981878.D 4 =J0981879.D
5 =J0981880.D 6 =J0981881.D 7 =J0981882.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.477	0.598	0.578	0.489	0.546	0.574	0.545	0.544	8.36
3)P Chloromethane	0.763	0.869	0.860	0.734	0.774	0.789	0.727	0.788	7.20
4)C Vinyl Chloride	0.455	0.522	0.484	0.460	0.459	0.489	0.479	0.478	4.86
5) 1,3-Butadiene	0.451	0.296	0.306	0.264	0.311	0.313	0.304	0.321	18.63
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9982									
Response Ratio = 0.00000 + 0.30191 *A + 0.00237 *A^2									
6) Bromomethane	0.457	0.318	0.295	0.251	0.252	0.244	0.228	0.292	27.13
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995									
Response Ratio = 0.00000 + 0.27162 *A + -0.02168 *A^2									
7) Chloroethane	0.339	0.244	0.236	0.192	0.175	0.162	0.152	0.214	30.44
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990									
Response Ratio = 0.00000 + 0.19778 *A + -0.02335 *A^2									
8) Trichlorofluorome	0.533	0.644	0.651	0.558	0.575	0.571	0.540	0.582	8.18
9) Ethyl Ether	0.416	0.449	0.460	0.410	0.432	0.410	0.392	0.424	5.69
10) 1,2-Dichlorotrifl	0.514	0.566	0.533	0.490	0.532	0.524	0.514	0.525	4.44
11)C 1,1-Dichloroethen	0.639	0.805	0.752	0.697	0.754	0.743	0.718	0.730	7.18
12) Freon 113	0.334	0.476	0.457	0.405	0.461	0.442	0.441	0.431	11.13
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9991									
Response Ratio = 0.00000 + 0.44467 *A + -0.00181 *A^2									
13) Carbon Disulfide	1.367	1.623	1.612	1.465	1.579	1.534	1.482	1.523	6.03
14) Iodomethane	0.738	0.841	0.782	0.748	0.778	0.784	0.754	0.775	4.43
15) Allyl chloride	1.023	0.879	0.851	0.793	0.896	0.848	0.833	0.875	8.37
16) Methylene Chlorid	1.187	0.885	0.788	0.738	0.778	0.754	0.720	0.836	19.59
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995									
Response Ratio = 0.00000 + 0.80217 *A + -0.03983 *A^2									
17) Acetone	0.041	0.039	0.041	0.039	0.042	0.041	0.039	0.040	3.51
18) Methyl acetate	0.051	0.066	0.066	0.063	0.067	0.066	0.064	0.063	8.56
19) trans-1,2-Dichlor	0.657	0.783	0.731	0.680	0.714	0.708	0.687	0.709	5.76
20) Hexane	0.434	0.585	0.495	0.431	0.464	0.459	0.460	0.475	11.12
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994									
Response Ratio = 0.00000 + 0.45601 *A + 0.00202 *A^2									
21) Methyl Tert Butyl	1.310	1.504	1.422	1.383	1.454	1.413	1.363	1.407	4.47
22) Acetonitrile	0.043	0.031	0.032	0.031	0.036	0.031	0.031	0.033	13.78
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9967									
Response Ratio = 0.00000 + 0.03507 *A + -0.00023 *A^2									
23) Di-isopropyl ethe	1.704	2.070	1.936	1.846	1.979	1.886	1.812	1.890	6.29
24) Chloroprene	0.731	0.704	0.778	0.726	0.847	0.820	0.802	0.773	6.91
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9987									

Initial Calibration Summary

Job Number: FA39907 **Sample:** VJ5529-ICC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981880.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
                Response Ratio = 0.00000 + 0.81752 *A + -0.00565 *A^2

25)P 1,1-Dichloroethan 0.792 0.914 0.866 0.817 0.860 0.849 0.837 0.848   4.57
26)  Acrylonitrile     0.146 0.202 0.180 0.180 0.181 0.178 0.173 0.177   9.21
27)  ETBE              1.588 1.903 1.838 1.695 1.779 1.745 1.660 1.744   6.15
28)  Vinyl acetate     0.951 1.216 1.179 1.145 1.093 0.983 0.864 1.062  12.34
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 1.23073 *A + -0.03623 *A^2

29)  cis-1,2-Dichloroe 0.540 0.573 0.542 0.477 0.512 0.514 0.507 0.524   5.89
30)  2,2-Dichloropropa 0.687 0.805 0.744 0.699 0.748 0.719 0.698 0.728   5.65
31)  Bromochloromethan 0.272 0.240 0.246 0.216 0.239 0.237 0.229 0.240   7.17
32)  Cyclohexane       0.818 1.055 1.012 0.871 0.993 0.969 0.942 0.951   8.65
33)C Chloroform        0.905 0.947 0.909 0.805 0.857 0.807 0.790 0.860   7.16
34)  Ethyl acetate     0.392 0.484 0.446 0.449 0.452 0.431 0.410 0.438   6.89
35)  Tetrahydrofuran   0.288 0.187 0.151 0.134 0.143 0.146 0.141 0.170  32.28
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 0.14523 *A + -0.00165 *A^2

36)S Dibromofluorometh 0.246 0.240 0.238 0.240 0.230 0.232 0.227 0.236   2.89
37)  Carbon Tetrachlor 0.507 0.620 0.629 0.562 0.628 0.615 0.603 0.595   7.58
38)  1,1,1-Trichloroet 0.682 0.826 0.775 0.719 0.775 0.755 0.736 0.753   6.14
39)  2-Butanone        0.256 0.205 0.202 0.200 0.210 0.202 0.195 0.210   9.90
40)  1,1-Dichloroprope 0.557 0.642 0.621 0.583 0.636 0.611 0.607 0.608   4.89
41)  tert-Butyl Format 0.504 0.578 0.511 0.507 0.503 0.469 0.426 0.500   9.25
42)  Propionitrile     0.068 0.069 0.067 0.061 0.066 0.064 0.062 0.065   4.90
43)  Methacrylonitrile 0.332 0.317 0.306 0.269 0.282 0.250 0.225 0.283  13.51
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 0.30690 *A + -0.00408 *A^2

44)  Benzene           1.475 1.781 1.677 1.572 1.647 1.552 1.467 1.596   7.10
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 1.71684 *A + -0.12313 *A^2

45)  TAME              1.193 1.533 1.491 1.423 1.511 1.438 1.372 1.423   8.13
46)S 1,2-Dichloroethan 0.327 0.319 0.314 0.323 0.321 0.315 0.303 0.317   2.46
47)  1,2-Dichloroethan 0.619 0.717 0.671 0.646 0.682 0.650 0.633 0.660   5.02
48)  Trichloroethene   0.452 0.491 0.487 0.432 0.488 0.457 0.460 0.467   4.74
49)  Methylcyclohexane 0.671 0.915 0.898 0.781 0.878 0.865 0.840 0.835  10.12
50)  Dibromomethane    0.266 0.287 0.300 0.274 0.288 0.281 0.283 0.283   3.79
51)C 1,2-Dichloropropa 0.436 0.531 0.505 0.483 0.518 0.503 0.497 0.496   6.19
52)  Bromodichlorometh 0.616 0.658 0.625 0.600 0.622 0.610 0.600 0.619   3.21
53)  Methyl methacryla 0.665 0.422 0.440 0.435 0.474 0.447 0.434 0.474  18.10
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 0.47293 *A + -0.01919 *A^2

54)  2-Chloroethyl vin 0.265 0.321 0.301 0.301 0.304 0.294 0.276 0.294   6.31
55)  cis-1,3-Dichlorop 0.642 0.831 0.783 0.745 0.788 0.773 0.750 0.759   7.72

56) I   Chlorobenzene-d5      ----------------ISTD---------------------
57)S Toluene-d8        1.309 1.292 1.354 1.310 1.315 1.365 1.350 1.328   2.11
58)C Toluene           2.315 2.599 2.629 2.364 2.561 2.490 2.386 2.478   5.01
59)  2-Nitropropane    0.187 0.159 0.165 0.152 0.164 0.160 0.156 0.163   6.99
60)  4-Methyl-2-pentan 0.646 0.718 0.678 0.642 0.688 0.635 0.588 0.657   6.46
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 0.72349 *A + -0.01336 *A^2

61)  trans-1,3-Dichlor 0.765 0.901 0.945 0.905 0.967 0.962 0.922 0.910   7.57
62)  Tetrachloroethene 0.512 0.709 0.724 0.637 0.783 0.770 0.739 0.696  13.54
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9975
```

Initial Calibration Summary

Job Number: FA39907 **Sample:** VJ5529-ICC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981880.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
                Response Ratio = 0.00000 + 0.75724 *A + -0.00569 *A^2

 63)  Ethyl methacrylat 0.876 0.839 0.858 0.794 0.897 0.894 0.867 0.861   4.14
 64)  1,1,2-Trichloroet 0.358 0.504 0.463 0.453 0.480 0.485 0.466 0.458  10.29
 65)  Dibromochlorometh 0.526 0.619 0.622 0.586 0.648 0.657 0.647 0.615   7.46
 66)  1,3-Dichloropropa 0.991 1.021 1.020 0.980 1.054 1.024 1.015 1.015   2.36
 67)  1,2-Dibromoethane 0.494 0.582 0.602 0.558 0.603 0.586 0.579 0.572   6.53
 68)  2-hexanone        0.415 0.472 0.469 0.443 0.473 0.452 0.424 0.450   5.26
 69)  1-Chlorohexane    0.767 0.870 0.973 0.898 1.007 0.969 0.958 0.920   8.92
 70)C Ethylbenzene      2.652 3.025 2.910 2.711 2.903 2.719 2.531 2.779   6.22
 71)P Chlorobenzene     1.467 1.881 1.818 1.648 1.778 1.693 1.646 1.705   8.04
 72)  1,1,1,2-Tetrachlo 0.576 0.643 0.618 0.602 0.664 0.663 0.632 0.628   5.16
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
                Response Ratio = 0.00000 + 0.66858 *A + -0.01570 *A^2

 73)  m,p-Xylene        1.995 2.470 2.445 2.187 2.322 2.115 1.899 2.205   9.94
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 2.51471 *A + -0.15177 *A^2

 74)  o-Xylene          2.424 2.589 2.725 2.454 2.662 2.564 2.418 2.548   4.74
 75)  Styrene           1.402 1.792 1.799 1.767 1.909 1.872 1.777 1.760   9.44
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 1.94335 *A + -0.07722 *A^2

 76)P Bromoform         0.386 0.407 0.410 0.417 0.465 0.471 0.462 0.431   7.88
 77)  Isopropylbenzene  2.668 3.226 3.199 2.830 3.104 2.986 2.763 2.968   7.41

 78) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
 79)S 4-Bromofluorobenz 1.028 1.003 0.960 1.004 0.992 0.969 1.025 0.997   2.59
 80)  cis-1,4-Dichloro-       0.408 0.393 0.393 0.411 0.392 0.406 0.401   2.14
 81)  n-Propylbenzene   6.538 7.518 6.944 6.502 6.772 6.250 5.933 6.637   7.69
 82)  Bromobenzene      1.360 1.485 1.311 1.332 1.432 1.400 1.364 1.384   4.35
 83)P 1,1,2,2-Tetrachlo 1.689 1.531 1.399 1.380 1.427 1.379 1.351 1.451   8.28
 84)  1,3,5-Trimethylbe 4.212 4.759 4.675 4.274 4.576 4.232 4.071 4.400   6.03
 85)  2-Chlorotoluene   4.692 5.035 4.577 4.432 4.615 4.197 4.062 4.516   7.17
 86)  trans-1,4-Dichlor 0.483 0.454 0.423 0.420 0.447 0.438 0.424 0.441   5.08
 87)  1,2,3-Trichloropr 0.340 0.398 0.363 0.363 0.397 0.370 0.390 0.375   5.73
 88)  Cyclohexanone     0.092 0.068 0.063 0.055 0.058 0.056 0.055 0.064  20.73
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.05843 *A + -0.00030 *A^2

 89)  4-Chlorotoluene   3.905 4.681 4.486 4.221 4.542 4.225 4.106 4.309   6.31
 90)  a-Methyl Styrene  2.862 2.658 2.664 2.585 2.948 2.775 2.734 2.747   4.59
 91)  tert-Butylbenzene 3.159 2.976 2.895 2.645 2.925 2.772 2.706 2.868   6.13
 92)  1,2,4-Trimethylbe 4.022 4.869 4.578 4.338 4.506 4.196 4.003 4.359   7.24
 93)  Pentachloroethane 0.938 0.838 0.846 0.818 0.853 0.838 0.847 0.854   4.51
 94)  sec-Butylbenzene  5.750 6.509 6.132 5.828 6.259 5.805 5.498 5.969   5.80
 95)  4-Isopropyltoluen 4.268 5.086 4.826 4.629 4.998 4.658 4.464 4.704   6.16
 96)  1,3-Dichlorobenze 2.623 3.013 2.765 2.769 2.964 2.835 2.756 2.818   4.73
 97)  1,4-Dichlorobenze 3.021 3.133 2.949 2.788 2.954 2.864 2.765 2.925   4.46
 98)  n-Butylbenzene    2.606 3.080 2.890 2.803 3.019 2.886 2.807 2.870   5.42
 99)  Benzyl Chloride   0.524 0.574 0.590 0.605 0.655 0.611 0.599 0.594   6.70
100)  1,2-Dichlorobenze 3.086 2.903 2.798 2.724 2.884 2.768 2.702 2.838   4.67
101)  1,2-Dibromo-3-Chl 0.298 0.318 0.255 0.278 0.288 0.282 0.291 0.287   6.65
102)  Hexachlorobutadie 1.108 1.286 1.201 1.141 1.222 1.189 1.229 1.197   4.91
103)  1,2,4-Trichlorobe 1.970 2.134 2.003 1.943 2.055 2.006 1.978 2.013   3.17
104)  Naphthalene       3.548 4.058 3.819 3.882 4.154 3.955 3.848 3.895   4.98
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 4.15862 *A + -0.15178 *A^2
```

Initial Calibration Summary

Job Number: FA39907 **Sample:** VJ5529-ICC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981880.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
105)  1,2,3-Trichlorobe 1.844 1.907 1.852 1.823 1.931 1.865 1.854 1.868   2.03
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 1.90643 *A + -0.02622 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.253 0.248 0.196 0.190 0.182 0.192 0.210  14.98
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
               Response Ratio = 0.00000 + 0.18938 *A + 0.00003 *A^2

108)  acrolein          2.973 3.718 3.799 3.374 3.512 3.517 3.434 3.475   7.72
109)  Tert Butyl Alcoho 2.519 2.189 2.192 1.892 2.039 2.057 1.941 2.118   9.89
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 2.10866 *A + -0.03811 *A^2

110)  tert Amyl alcohol 1.777 1.662 1.612 1.544 1.678 1.637 1.603 1.645   4.43
111)  Isobutyl alcohol  0.800 0.671 0.660 0.596 0.672 0.646 0.605 0.664  10.09
112)  1,4-Dioxane       0.189 0.169 0.177 0.152 0.173 0.184 0.179 0.175   6.93
113)  3,3-Dimethyl-1-bu 1.777 1.758 1.722 1.640 1.720 1.726 1.607 1.707   3.60
 ---------------------------------------------------------------------------
 (#) = Out of Range

          MSJ123016.M        Wed Jan 04 10:50:15 2017
```

Initial Calibration Verification

Job Number: FA39907 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981884.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\123016\J0981884.D          Vial: 9
Acq On    : 30 Dec 2016   3:58 pm                    Operator: melissam
Sample    : ICV5529-5                                Inst    : MSVOA6
Misc      : MS35465,VJ5529,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 09:58:33 2017
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	100	0.00	7.73
2		Dichlorodifluoromethane	0.544	0.558	-2.6	102	-0.01	2.65
3	P	Chloromethane	0.788	0.704	10.7	91	0.00	2.86
4	C	Vinyl Chloride	0.478	0.421	11.9	92	-0.01	3.01
		----------	Amount	Calc.	%Drift		----------	
5		1,3-Butadiene	40.000	0.257	99.4#	1	-0.03	2.98
6		Bromomethane	40.000	36.017	10.0	92	-0.01	3.43
7		Chloroethane	40.000	37.884	5.3	98	0.00	3.58
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.582	0.626	-7.6	109	0.00	3.80
9		Ethyl Ether	0.424	0.386	9.0	90	0.00	4.10
10		1,2-Dichlorotrifluoroetha	0.525	0.510	2.9	96	-0.01	4.31
11	C	1,1-Dichloroethene	0.730	0.758	-3.8	101	0.00	4.37
		----------	Amount	Calc.	%Drift		----------	
12		Freon 113	40.000	40.099	-0.2	96	0.00	4.43
		----------	AvgRF	CCRF	%Dev		----------	
13		Carbon Disulfide	1.523	1.497	1.7	95	0.00	4.44
14		Iodomethane	0.775	0.841	-8.5	108	-0.01	4.56
15		Allyl chloride	0.875	0.804	8.1	90	0.00	4.90
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	39.133	2.2	97	0.00	5.02
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.040	0.040	0.0	95	0.00	5.05
18		Methyl acetate	0.063	0.069	-9.5	103	0.00	5.17
19		trans-1,2-Dichloroethene	0.709	0.737	-3.9	103	0.00	5.20
		----------	Amount	Calc.	%Drift		----------	
20		Hexane	40.000	39.215	2.0	97	0.00	5.27
		----------	AvgRF	CCRF	%Dev		----------	
21		Methyl Tert Butyl Ether	1.407	1.475	-4.8	102	0.00	5.31
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	383.727	4.1	88	0.00	5.57
		----------	AvgRF	CCRF	%Dev		----------	

Initial Calibration Verification

Job Number: FA39907 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981884.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	1.890	2.006	-6.1	101	0.00	5.69
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	38.134	4.7	92	0.00	5.84
		----------	AvgRF	CCRF	%Dev		----------	
25	P	1,1-Dichloroethane	0.848	0.976	-15.1	114	0.00	5.87
26		Acrylonitrile	0.177	0.186	-5.1	103	0.00	5.90
27		ETBE	1.744	1.655	5.1	93	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
28		Vinyl acetate	200.000	198.797	0.6	99	0.00	6.08
		----------	AvgRF	CCRF	%Dev		----------	
29		cis-1,2-Dichloroethene	0.524	0.567	-8.2	111	0.00	6.45
30		2,2-Dichloropropane	0.728	0.825	-13.3	110	0.00	6.58
31		Bromochloromethane	0.240	0.260	-8.3	109	0.00	6.66
32		Cyclohexane	0.951	0.911	4.2	92	0.00	6.71
33	C	Chloroform	0.860	0.886	-3.0	103	0.00	6.71
34		Ethyl acetate	0.438	0.430	1.8	95	0.00	6.78
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	40.952	-2.4	103	0.00	6.89
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.236	0.246	-4.2	107	0.00	6.90
37		Carbon Tetrachloride	0.595	0.706	-18.7	112	0.00	6.91
38		1,1,1-Trichloroethane	0.753	0.771	-2.4	100	0.00	6.96
39		2-Butanone	0.210	0.223	-6.2	106	0.00	7.00
40		1,1-Dichloropropene	0.608	0.652	-7.2	103	0.00	7.08
41		tert-Butyl Formate	0.500	0.188	62.4#	37#	0.00	7.16
42		Propionitrile	0.065	0.062	4.6	94	0.00	7.30
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	394.249	1.4	96	0.00	7.33
44		Benzene	40.000	47.958	-19.9	117	0.00	7.33
		----------	AvgRF	CCRF	%Dev		----------	
45		TAME	1.423	1.518	-6.7	101	0.00	7.41
46	S	1,2-Dichloroethane-d4	0.317	0.298	6.0	93	0.00	7.45
47		1,2-Dichloroethane	0.660	0.715	-8.3	105	0.00	7.52
48		Trichloroethene	0.467	0.520	-11.3	107	0.00	7.91
49		Methylcyclohexane	0.835	0.895	-7.2	102	0.00	7.93
50		Dibromomethane	0.283	0.326	-15.2	113	0.00	8.33
51	C	1,2-Dichloropropane	0.496	0.508	-2.4	98	0.00	8.42
52		Bromodichloromethane	0.619	0.683	-10.3	110	0.00	8.47
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	39.072	2.3	95	0.00	8.57
		----------	AvgRF	CCRF	%Dev		----------	
54		2-Chloroethyl vinyl ether	0.294	0.297	-1.0	98	0.00	8.99
55		cis-1,3-Dichloropropene	0.759	0.866	-14.1	110	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00	10.82
57	S	Toluene-d8	1.328	1.279	3.7	101	0.00	9.28
58	C	Toluene	2.478	2.858	-15.3	115	0.00	9.33
59		2-Nitropropane	0.163	0.167	-2.5	105	0.00	9.53
		----------	Amount	Calc.	%Drift		----------	

Initial Calibration Verification

Job Number: FA39907 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981884.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone	200.000	189.487	5.3	96	0.00	9.65
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.910	1.073	-17.9	115	0.00	9.71
		----------	Amount	Calc.	%Drift	----------		
62		Tetrachloroethene	40.000	42.702	-6.8	106	0.00	9.73
		----------	AvgRF	CCRF	%Dev	----------		
63		Ethyl methacrylate	0.861	0.797	7.4	92	0.00	9.81
64		1,1,2-Trichloroethane	0.458	0.513	-12.0	110	0.00	9.88
65		Dibromochloromethane	0.615	0.715	-16.3	114	0.00	10.08
66		1,3-Dichloropropane	1.015	1.070	-5.4	105	0.00	10.16
67		1,2-Dibromoethane	0.572	0.663	-15.9	114	0.00	10.34
68		2-hexanone	0.450	0.436	3.1	95	0.00	10.47
69		1-Chlorohexane	0.920	0.988	-7.4	102	0.00	10.77
70	C	Ethylbenzene	2.779	3.207	-15.4	114	0.00	10.84
71	P	Chlorobenzene	1.705	1.919	-12.6	112	0.00	10.84
		----------	Amount	Calc.	%Drift	----------		
72		1,1,1,2-Tetrachloroethane	40.000	46.446	-16.1	118	0.00	10.89
73		m,p-Xylene	80.000	87.541	-9.4	110	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	2.548	2.755	-8.1	107	0.00	11.42
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	46.390	-16.0	118	0.00	11.46
		----------	AvgRF	CCRF	%Dev	----------		
76	P	Bromoform	0.431	0.508	-17.9	113	0.00	11.52
77		Isopropylbenzene	2.968	3.288	-10.8	110	0.00	11.72
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00	13.18
79	S	4-Bromofluorobenzene	0.997	0.938	5.9	99	0.00	12.03
80		cis-1,4-Dichloro-2-butene	0.401	0.431	-7.5	110	0.00	12.06
81		n-Propylbenzene	6.637	6.936	-4.5	108	0.00	12.14
82		Bromobenzene	1.384	1.670	-20.7#	122	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	1.451	1.431	1.4	105	0.00	12.20
84		1,3,5-Trimethylbenzene	4.400	5.092	-15.7	117	0.00	12.32
85		2-Chlorotoluene	4.516	4.742	-5.0	108	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	0.441	0.440	0.2	103	0.00	12.38
87		1,2,3-Trichloropropane	0.375	0.425	-13.3	112	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	190.424	4.8	98	0.00	12.43
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	4.309	4.562	-5.9	105	0.00	12.49
90		a-Methyl Styrene	2.747	0.009	99.7#	0#	0.09	12.68
91		tert-Butylbenzene	2.868	2.946	-2.7	106	0.00	12.66
92		1,2,4-Trimethylbenzene	4.359	5.072	-16.4	118	0.00	12.73
93		Pentachloroethane	0.854	0.956	-11.9	118	0.00	12.72
94		sec-Butylbenzene	5.969	6.492	-8.8	109	0.00	12.85
95		4-Isopropyltoluene	4.704	5.658	-20.3#	119	0.00	12.98
96		1,3-Dichlorobenzene	2.818	3.230	-14.6	114	0.00	13.12
97		1,4-Dichlorobenzene	2.925	3.200	-9.4	114	0.00	13.20
98		n-Butylbenzene	2.870	3.237	-12.8	113	0.00	13.41
99		Benzyl Chloride	0.594	0.657	-10.6	105	0.00	13.43
100		1,2-Dichlorobenzene	2.838	3.097	-9.1	113	0.00	13.63

Initial Calibration Verification

Job Number: FA39907 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981884.D
Project: BMSMC, Building 5 Area, Humacao, PR

101	1,2-Dibromo-3-Chloropropa	0.287	0.288	-0.3	105	0.00	14.36
102	Hexachlorobutadiene	1.197	1.273	-6.3	109	0.00	14.91
103	1,2,4-Trichlorobenzene	2.013	2.391	-18.8	122	0.00	14.96
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	49.787	-24.5#	126	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	48.278	-20.7#	123	0.00	15.41
		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	93	0.00	5.28
		Amount	Calc.	%Drift			
107	Ethanol	800.000	888.579	-11.1	103	0.00	4.28
		AvgRF	CCRF	%Dev			
108	acrolein	3.475	4.414	-27.0#	117	0.00	4.73
		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	546.850	-36.7#	126	0.00	5.35
		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	1.645	1.672	-1.6	93	0.00	7.55
111	Isobutyl alcohol	0.664	0.674	-1.5	93	0.00	7.43
112	1,4-Dioxane	0.175	0.201	-14.9	108	-0.01	8.64
113	3,3-Dimethyl-1-butanol	1.707	1.922	-12.6	104	0.00	10.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0981880.D MSJ123016.M Tue Jan 03 10:02:38 2017

6.7.2 6

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5530-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981914.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\010317\J0981914.D          Vial: 1
Acq On    :  3 Jan 2017   9:16 am                    Operator: darshnap
Sample    : cc5529-5                                 Inst    : MSVOA6
Misc      : MS35465,VJ5530,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 09:58:33 2017
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	113	0.00	7.73
2		Dichlorodifluoromethane	0.544	0.533	2.0	110	0.00	2.65
3	P	Chloromethane	0.788	0.763	3.2	111	0.00	2.87
4	C	Vinyl Chloride	0.478	0.434	9.2	106	0.00	3.02
		----------	Amount	Calc.	%Drift		----------	
5		1,3-Butadiene	40.000	37.698	5.8	104	0.00	3.02
6		Bromomethane	40.000	31.295	21.8#	90	0.00	3.44
7		Chloroethane	40.000	33.290	16.8	98	0.00	3.59
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.582	0.556	4.5	109	0.01	3.81
9		Ethyl Ether	0.424	0.440	-3.8	115	0.00	4.10
10		1,2-Dichlorotrifluoroetha	0.525	0.537	-2.3	114	0.00	4.33
11	C	1,1-Dichloroethene	0.730	0.763	-4.5	114	0.00	4.37
		----------	Amount	Calc.	%Drift		----------	
12		Freon 113	40.000	41.302	-3.3	112	0.00	4.44
		----------	AvgRF	CCRF	%Dev		----------	
13		Carbon Disulfide	1.523	1.585	-4.1	113	0.00	4.46
14		Iodomethane	0.775	0.771	0.5	112	0.00	4.57
15		Allyl chloride	0.875	0.942	-7.7	118	0.00	4.90
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	41.564	-3.9	116	0.00	5.03
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.040	0.046	-15.0	123	0.00	5.04
18		Methyl acetate	0.063	0.071	-12.7	119	0.00	5.17
19		trans-1,2-Dichloroethene	0.709	0.719	-1.4	113	0.00	5.21
		----------	Amount	Calc.	%Drift		----------	
20		Hexane	40.000	42.875	-7.2	119	0.00	5.27
		----------	AvgRF	CCRF	%Dev		----------	
21		Methyl Tert Butyl Ether	1.407	1.476	-4.9	114	0.00	5.31
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	515.766	-28.9#	131	0.00	5.57
		----------	AvgRF	CCRF	%Dev		----------	

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5530-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981914.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	1.890	2.077	-9.9	118	0.00	5.69
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	41.149	-2.9	111	0.00	5.85
		----------	AvgRF	CCRF	%Dev	----------		
25	P	1,1-Dichloroethane	0.848	0.875	-3.2	115	0.00	5.87
26		Acrylonitrile	0.177	0.199	-12.4	124	0.00	5.90
27		ETBE	1.744	1.869	-7.2	118	0.00	6.09
		----------	Amount	Calc.	%Drift	----------		
28		Vinyl acetate	200.000	223.170	-11.6	123	0.00	6.08
		----------	AvgRF	CCRF	%Dev	----------		
29		cis-1,2-Dichloroethene	0.524	0.516	1.5	114	0.00	6.45
30		2,2-Dichloropropane	0.728	0.779	-7.0	117	0.00	6.58
31		Bromochloromethane	0.240	0.241	-0.4	114	0.00	6.66
32		Cyclohexane	0.951	0.996	-4.7	113	0.00	6.71
33	C	Chloroform	0.860	0.845	1.7	111	0.00	6.71
34		Ethyl acetate	0.438	0.496	-13.2	124	0.00	6.78
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	44.195	-10.5	125	0.00	6.89
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.236	0.231	2.1	113	0.00	6.91
37		Carbon Tetrachloride	0.595	0.611	-2.7	109	0.00	6.91
38		1,1,1-Trichloroethane	0.753	0.764	-1.5	111	0.00	6.96
39		2-Butanone	0.210	0.231	-10.0	124	0.00	7.00
40		1,1-Dichloropropene	0.608	0.628	-3.3	111	0.00	7.08
41		tert-Butyl Formate	0.500	0.529	-5.8	118	0.00	7.16
42		Propionitrile	0.065	0.073	-12.3	123	0.00	7.30
		----------	Amount	Calc.	%Drift	----------		
43		Methacrylonitrile	400.000	465.990	-16.5	125	0.00	7.33
44		Benzene	40.000	40.597	-1.5	111	0.00	7.33
		----------	AvgRF	CCRF	%Dev	----------		
45		TAME	1.423	1.541	-8.3	115	0.00	7.41
46	S	1,2-Dichloroethane-d4	0.317	0.333	-5.0	117	0.00	7.45
47		1,2-Dichloroethane	0.660	0.709	-7.4	117	0.00	7.52
48		Trichloroethene	0.467	0.474	-1.5	109	0.00	7.91
49		Methylcyclohexane	0.835	0.884	-5.9	113	0.00	7.93
50		Dibromomethane	0.283	0.307	-8.5	120	0.00	8.33
51	C	1,2-Dichloropropane	0.496	0.539	-8.7	117	0.00	8.42
52		Bromodichloromethane	0.619	0.646	-4.4	117	0.00	8.47
		----------	Amount	Calc.	%Drift	----------		
53		Methyl methacrylate	40.000	46.989	-17.5	127	0.00	8.57
		----------	AvgRF	CCRF	%Dev	----------		
54		2-Chloroethyl vinyl ether	0.294	0.327	-11.2	121	0.00	8.99
55		cis-1,3-Dichloropropene	0.759	0.823	-8.4	118	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	114	0.00	10.82
57	S	Toluene-d8	1.328	1.292	2.7	112	0.00	9.28
58	C	Toluene	2.478	2.520	-1.7	112	0.00	9.33
59		2-Nitropropane	0.163	0.183	-12.3	126	0.00	9.53
		----------	Amount	Calc.	%Drift	----------		

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5530-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981914.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone	200.000	215.396	-7.7	119	0.00	9.65
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.910	0.983	-8.0	116	0.00	9.71
		----------	Amount	Calc.	%Drift	----------		
62		Tetrachloroethene	40.000	33.946	15.1	93	0.00	9.73
		----------	AvgRF	CCRF	%Dev	----------		
63		Ethyl methacrylate	0.861	0.994	-15.4	126	0.00	9.82
64		1,1,2-Trichloroethane	0.458	0.503	-9.8	119	0.00	9.88
65		Dibromochloromethane	0.615	0.665	-8.1	117	0.00	10.08
66		1,3-Dichloropropane	1.015	1.065	-4.9	115	0.00	10.16
67		1,2-Dibromoethane	0.572	0.598	-4.5	113	0.00	10.34
68		2-hexanone	0.450	0.515	-14.4	124	0.00	10.47
69		1-Chlorohexane	0.920	0.983	-6.8	111	0.00	10.77
70	C	Ethylbenzene	2.779	2.812	-1.2	110	0.00	10.84
71	P	Chlorobenzene	1.705	1.747	-2.5	112	0.00	10.84
		----------	Amount	Calc.	%Drift	----------		
72		1,1,1,2-Tetrachloroethane	40.000	40.265	-0.7	108	0.00	10.89
73		m,p-Xylene	80.000	79.367	0.8	111	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	2.548	2.642	-3.7	113	0.00	11.42
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	42.722	-6.8	112	0.00	11.46
		----------	AvgRF	CCRF	%Dev	----------		
76	P	Bromoform	0.431	0.450	-4.4	110	0.00	11.52
77		Isopropylbenzene	2.968	3.067	-3.3	113	0.00	11.72
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	13.19
79	S	4-Bromofluorobenzene	0.997	1.002	-0.5	113	0.00	12.03
80		cis-1,4-Dichloro-2-butene	0.401	0.444	-10.7	121	0.00	12.06
81		n-Propylbenzene	6.637	6.769	-2.0	112	0.00	12.14
82		Bromobenzene	1.384	1.393	-0.7	109	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	1.451	1.525	-5.1	120	0.00	12.20
84		1,3,5-Trimethylbenzene	4.400	4.566	-3.8	112	0.00	12.32
85		2-Chlorotoluene	4.516	4.555	-0.9	111	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	0.441	0.486	-10.2	122	0.00	12.38
87		1,2,3-Trichloropropane	0.375	0.412	-9.9	117	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	242.551	-21.3#	133	0.00	12.43
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	4.309	4.521	-4.9	112	0.00	12.50
90		a-Methyl Styrene	2.747	3.034	-10.4	116	0.00	12.59
91		tert-Butylbenzene	2.868	2.853	0.5	109	0.00	12.66
92		1,2,4-Trimethylbenzene	4.359	4.440	-1.9	111	0.00	12.73
93		Pentachloroethane	0.854	0.989	-15.8	130	0.00	12.72
94		sec-Butylbenzene	5.969	6.190	-3.7	111	0.00	12.85
95		4-Isopropyltoluene	4.704	4.903	-4.2	110	0.00	12.98
96		1,3-Dichlorobenzene	2.818	2.969	-5.4	112	0.00	13.12
97		1,4-Dichlorobenzene	2.925	2.927	-0.1	111	0.00	13.20
98		n-Butylbenzene	2.870	3.047	-6.2	113	0.00	13.42
99		Benzyl Chloride	0.594	0.677	-14.0	116	0.00	13.43
100		1,2-Dichlorobenzene	2.838	2.919	-2.9	114	0.00	13.63

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5530-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981914.D
Project: BMSMC, Building 5 Area, Humacao, PR

101	1,2-Dibromo-3-Chloropropa	0.287	0.303	-5.6	118	0.00	14.36
102	Hexachlorobutadiene	1.197	1.111	7.2	102	0.00	14.91
103	1,2,4-Trichlorobenzene	2.013	1.937	3.8	106	0.00	14.95
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	42.809	-7.0	113	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	38.932	2.7	106	0.00	15.41
		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	114	0.00	5.28
		Amount	Calc.	%Drift			
107	Ethanol	800.000	964.457	-20.6#	137	-0.03	4.25
		AvgRF	CCRF	%Dev			
108	acrolein	3.475	3.673	-5.7	119	0.00	4.74
		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	394.423	1.4	117	0.00	5.35
		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	1.645	1.713	-4.1	116	0.00	7.55
111	Isobutyl alcohol	0.664	0.715	-7.7	121	0.00	7.43
112	1,4-Dioxane	0.175	0.184	-5.1	122	0.00	8.65
113	3,3-Dimethyl-1-butanol	1.707	1.803	-5.6	120	0.00	10.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0981880.D MSJ123016.M Tue Jan 03 10:54:14 2017

6.7.3
6

Initial Calibration Verification

Job Number: FA39907 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981915.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\010317\J0981915.D          Vial: 1
Acq On    :  3 Jan 2017   9:52 am                    Operator: darshnap
Sample    : icv5529-5                                Inst    : MSVOA6
Misc      : MS35465,VJ5529,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 08:23:52 2017
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	115	0.00	7.73
2		Dichlorodifluoromethane		----------NA----------				
3	P	Chloromethane		----------NA----------				
4	C	Vinyl Chloride	0.478	0.401	16.1	101	0.00	3.02
		----------	Amount	Calc.	%Drift	----------		
5		1,3-Butadiene		----------NA----------				
6		Bromomethane		----------NA----------				
7		Chloroethane		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane		----------NA----------				
9		Ethyl Ether		----------NA----------				
10		1,2-Dichlorotrifluoroetha		----------NA----------				
11	C	1,1-Dichloroethene	0.730	0.772	-5.8	118	0.00	4.37
		----------	Amount	Calc.	%Drift	----------		
12		Freon 113		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
13		Carbon Disulfide		----------NA----------				
14		Iodomethane		----------NA----------				
15		Allyl chloride		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
16		Methylene Chloride		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
17		Acetone		----------NA----------				
18		Methyl acetate		----------NA----------				
19		trans-1,2-Dichloroethene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
20		Hexane		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
21		Methyl Tert Butyl Ether		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
22		Acetonitrile		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		

Initial Calibration Verification

Job Number: FA39907 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981915.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
24		Chloroprene		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
25	P	1,1-Dichloroethane		----------NA----------			
26		Acrylonitrile		----------NA----------			
27		ETBE		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
28		Vinyl acetate		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
29		cis-1,2-Dichloroethene		----------NA----------			
30		2,2-Dichloropropane		----------NA----------			
31		Bromochloromethane		----------NA----------			
32		Cyclohexane		----------NA----------			
33	C	Chloroform		----------NA----------			
34		Ethyl acetate		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
35		Tetrahydrofuran		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
36	S	Dibromofluoromethane	0.236	0.230	2.5	115	0.00 6.91
37		Carbon Tetrachloride		----------NA----------			
38		1,1,1-Trichloroethane		----------NA----------			
39		2-Butanone		----------NA----------			
40		1,1-Dichloropropene		----------NA----------			
41		tert-Butyl Formate	0.500	0.595	-19.0	136	0.00 7.16
42		Propionitrile		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
43		Methacrylonitrile		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
44		Benzene		----------NA----------			
45		TAME		----------NA----------			
46	S	1,2-Dichloroethane-d4	0.317	0.319	-0.6	114	0.00 7.46
47		1,2-Dichloroethane		----------NA----------			
48		Trichloroethene		----------NA----------			
49		Methylcyclohexane		----------NA----------			
50		Dibromomethane		----------NA----------			
51	C	1,2-Dichloropropane		----------NA----------			
52		Bromodichloromethane		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
53		Methyl methacrylate		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
54		2-Chloroethyl vinyl ether		----------NA----------			
55		cis-1,3-Dichloropropene		----------NA----------			
56	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00 10.82
57	S	Toluene-d8	1.328	1.343	-1.1	115	0.00 9.28
58	C	Toluene		----------NA----------			
59		2-Nitropropane		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	

Initial Calibration Verification

Job Number: FA39907 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981915.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
61		trans-1,3-Dichloropropene		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
62		Tetrachloroethene		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
63		Ethyl methacrylate		----------NA----------			
64		1,1,2-Trichloroethane		----------NA----------			
65		Dibromochloromethane		----------NA----------			
66		1,3-Dichloropropane		----------NA----------			
67		1,2-Dibromoethane		----------NA----------			
68		2-hexanone		----------NA----------			
69		1-Chlorohexane		----------NA----------			
70	C	Ethylbenzene		----------NA----------			
71	P	Chlorobenzene		----------NA----------			
72		1,1,1,2-Tetrachloroethane		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
73		m,p-Xylene		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
74		o-Xylene		----------NA----------			
75		Styrene		----------NA----------			
76	P	Bromoform		----------NA----------			
77		Isopropylbenzene		----------NA----------			
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	0.00 13.19
79	S	4-Bromofluorobenzene	0.997	1.043	-4.6	119	0.00 12.03
80		cis-1,4-Dichloro-2-butene		----------NA----------			
81		n-Propylbenzene		----------NA----------			
82		Bromobenzene		----------NA----------			
83	P	1,1,2,2-Tetrachloroethane		----------NA----------			
84		1,3,5-Trimethylbenzene		----------NA----------			
85		2-Chlorotoluene		----------NA----------			
86		trans-1,4-Dichloro-2-Bute		----------NA----------			
87		1,2,3-Trichloropropane		----------NA----------			
		----------	Amount	Calc.	%Drift	----------	
88		Cyclohexanone		----------NA----------			
		----------	AvgRF	CCRF	%Dev	----------	
89		4-Chlorotoluene		----------NA----------			
90		a-Methyl Styrene		----------NA----------			
91		tert-Butylbenzene		----------NA----------			
92		1,2,4-Trimethylbenzene		----------NA----------			
93		Pentachloroethane		----------NA----------			
94		sec-Butylbenzene		----------NA----------			
95		4-Isopropyltoluene		----------NA----------			
96		1,3-Dichlorobenzene		----------NA----------			
97		1,4-Dichlorobenzene		----------NA----------			
98		n-Butylbenzene		----------NA----------			
99		Benzyl Chloride		----------NA----------			
100		1,2-Dichlorobenzene		----------NA----------			
101		1,2-Dibromo-3-Chloropropa		----------NA----------			
102		Hexachlorobutadiene		----------NA----------			
103		1,2,4-Trichlorobenzene		----------NA----------			
104		Naphthalene		----------NA----------			

Initial Calibration Verification

Job Number: FA39907 **Sample:** VJ5529-ICV5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981915.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
105      1,2,3-Trichlorobenzene      1.868   2.171    -16.2  127   0.00   15.41

106 I    Tert Butyl Alcohol-d10      1.000   1.000      0.0  115   0.00    5.28

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

             ----------------------- AvgRF   CCRF      %Dev   --------------
108      acrolein                             ----------NA----------
109      Tert Butyl Alcohol          2.118   2.138     -0.9  121   0.00    5.36
110      tert Amyl alcohol                    ----------NA----------
111      Isobutyl alcohol                     ----------NA----------
112      1,4-Dioxane                          ----------NA----------
113      3,3-Dimethyl-1-butanol               ----------NA----------
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

    (#) = Out of Range               SPCC's out = 5  CCC's out = 4
     J0981880.D MSJ123016.M       Wed Jan 04 10:50:05 2017
```

6.7.4

6

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5530-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981943.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\010317\J0981943.D          Vial: 23
Acq On    :  3 Jan 2017   9:32 pm                     Operator: darshnap
Sample    : ecc5529-5                                 Inst    : MSVOA6
Misc      : MS35986,VJ5531,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 08:23:52 2017
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	101	0.00	7.73
2		Dichlorodifluoromethane	0.544	0.626	-15.1	116	0.00	2.66
3	P	Chloromethane	0.788	0.891	-13.1	116	0.00	2.87
4	C	Vinyl Chloride	0.478	0.546	-14.2	120	0.00	3.02
		----------	Amount	Calc.	%Drift		----------	
5		1,3-Butadiene	40.000	45.845	-14.6	113	0.00	3.01
6		Bromomethane	40.000	33.959	15.1	87	0.00	3.44
7		Chloroethane	40.000	40.095	-0.2	103	0.00	3.59
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.582	0.668	-14.8	117	0.00	3.81
9		Ethyl Ether	0.424	0.503	-18.6	117	0.00	4.10
10		1,2-Dichlorotrifluoroetha	0.525	0.638	-21.5	121	0.00	4.33
11	C	1,1-Dichloroethene	0.730	0.881	-20.7#	118	0.00	4.37
		----------	Amount	Calc.	%Drift		----------	
12		Freon 113	40.000	47.463	-18.7	115	0.00	4.44
		----------	AvgRF	CCRF	%Dev		----------	
13		Carbon Disulfide	1.523	1.777	-16.7	114	0.00	4.45
14		Iodomethane	0.775	0.805	-3.9	104	0.00	4.56
15		Allyl chloride	0.875	0.979	-11.9	110	0.00	4.90
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	46.342	-15.9	115	0.00	5.03
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.040	0.046	-15.0	111	0.00	5.04
18		Methyl acetate	0.063	0.079	-25.4	119	0.00	5.17
19		trans-1,2-Dichloroethene	0.709	0.833	-17.5	118	0.00	5.20
		----------	Amount	Calc.	%Drift		----------	
20		Hexane	40.000	48.589	-21.5	121	0.00	5.27
		----------	AvgRF	CCRF	%Dev		----------	
21		Methyl Tert Butyl Ether	1.407	1.580	-12.3	110	0.00	5.31
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	463.585	-15.9	106	0.00	5.57
		----------	AvgRF	CCRF	%Dev		----------	

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5530-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981943.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	1.890	2.287	-21.0	117	0.00	5.69
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	45.012	-12.5	109	0.00	5.85
		----------	AvgRF	CCRF	%Dev		----------	
25	P	1,1-Dichloroethane	0.848	0.971	-14.5	114	0.00	5.87
26		Acrylonitrile	0.177	0.213	-20.3	119	0.00	5.90
27		ETBE	1.744	1.995	-14.4	113	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
28		Vinyl acetate	200.000	209.169	-4.6	104	0.00	6.08
		----------	AvgRF	CCRF	%Dev		----------	
29		cis-1,2-Dichloroethene	0.524	0.562	-7.3	111	0.00	6.45
30		2,2-Dichloropropane	0.728	0.722	0.8	97	0.00	6.58
31		Bromochloromethane	0.240	0.250	-4.2	105	0.00	6.66
32		Cyclohexane	0.951	1.163	-22.3	118	0.00	6.71
33	C	Chloroform	0.860	0.938	-9.1	110	0.00	6.71
34		Ethyl acetate	0.438	0.545	-24.4	122	0.00	6.78
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	52.034	-30.1	131	0.00	6.89
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.236	0.228	3.4	100	0.00	6.91
37		Carbon Tetrachloride	0.595	0.658	-10.6	106	0.00	6.91
38		1,1,1-Trichloroethane	0.753	0.847	-12.5	110	0.00	6.97
39		2-Butanone	0.210	0.239	-13.8	115	0.00	7.00
40		1,1-Dichloropropene	0.608	0.713	-17.3	113	0.00	7.08
41		tert-Butyl Formate	0.500	0.480	4.0	96	0.00	7.16
42		Propionitrile	0.065	0.073	-12.3	111	0.00	7.31
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	490.664	-22.7	117	0.00	7.33
		----------	AvgRF	CCRF	%Dev		----------	
44		Benzene	1.596	1.804	-13.0	110	0.00	7.33
45		TAME	1.423	1.644	-15.5	110	0.00	7.41
46	S	1,2-Dichloroethane-d4	0.317	0.338	-6.6	106	0.00	7.46
47		1,2-Dichloroethane	0.660	0.775	-17.4	115	0.00	7.52
48		Trichloroethene	0.467	0.543	-16.3	112	0.00	7.91
49		Methylcyclohexane	0.835	1.002	-20.0	115	0.00	7.93
50		Dibromomethane	0.283	0.325	-14.8	114	0.00	8.34
51	C	1,2-Dichloropropane	0.496	0.588	-18.5	114	0.00	8.43
52		Bromodichloromethane	0.619	0.672	-8.6	109	0.00	8.47
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	47.664	-19.2	115	0.00	8.57
		----------	AvgRF	CCRF	%Dev		----------	
54		2-Chloroethyl vinyl ether	0.294	0.346	-17.7	115	0.00	8.99
55		cis-1,3-Dichloropropene	0.759	0.841	-10.8	108	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	10.82
57	S	Toluene-d8	1.328	1.334	-0.5	101	0.00	9.28
58	C	Toluene	2.478	2.809	-13.4	110	0.00	9.33
59		2-Nitropropane	0.163	0.194	-19.0	118	0.00	9.53
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5530-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981943.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone	200.000	240.084	-20.0	115	0.00	9.65
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.910	1.030	-13.2	107	0.00	9.71
		----------	Amount	Calc.	%Drift	----------		
62		Tetrachloroethene	40.000	55.688	-39.2	134	0.00	9.73
		----------	AvgRF	CCRF	%Dev	----------		
63		Ethyl methacrylate	0.861	0.979	-13.7	109	0.00	9.82
64		1,1,2-Trichloroethane	0.458	0.546	-19.2	114	0.00	9.88
65		Dibromochloromethane	0.615	0.658	-7.0	102	0.00	10.08
66		1,3-Dichloropropane	1.015	1.202	-18.4	114	0.00	10.16
67		1,2-Dibromoethane	0.572	0.652	-14.0	108	0.00	10.34
68		2-hexanone	0.450	0.553	-22.9	117	0.00	10.47
69		1-Chlorohexane	0.920	1.095	-19.0	109	0.00	10.77
70	C	Ethylbenzene	2.779	3.135	-12.8	108	0.00	10.84
71	P	Chlorobenzene	1.705	1.846	-8.3	104	0.00	10.84
72		1,1,1,2-Tetrachloroethane	0.628	0.668	-6.4	101	0.00	10.89
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	89.100	-11.4	108	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	2.548	2.891	-13.5	109	0.00	11.42
75		Styrene	1.760	2.013	-14.4	106	0.00	11.46
76	P	Bromoform	0.431	0.422	2.1	91	0.00	11.52
77		Isopropylbenzene	2.968	3.372	-13.6	109	0.00	11.72
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	13.19
79	S	4-Bromofluorobenzene	0.997	1.051	-5.4	104	0.00	12.03
80		cis-1,4-Dichloro-2-butene	0.401	0.329	18.0	78	0.00	12.06
81		n-Propylbenzene	6.637	7.544	-13.7	109	0.00	12.14
82		Bromobenzene	1.384	1.437	-3.8	98	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	1.451	1.584	-9.2	109	0.00	12.20
84		1,3,5-Trimethylbenzene	4.400	4.939	-12.2	106	0.00	12.32
85		2-Chlorotoluene	4.516	5.029	-11.4	107	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	0.441	0.426	3.4	94	0.00	12.38
87		1,2,3-Trichloropropane	0.375	0.438	-16.8	108	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	214.268	-7.1	103	0.00	12.42
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	4.309	4.893	-13.6	106	0.00	12.50
90		a-Methyl Styrene	2.747	2.985	-8.7	99	0.00	12.59
91		tert-Butylbenzene	2.868	3.291	-14.7	110	0.00	12.66
92		1,2,4-Trimethylbenzene	4.359	4.976	-14.2	108	0.00	12.73
93		Pentachloroethane	0.854	0.379	55.6#	44#	0.00	12.72
94		sec-Butylbenzene	5.969	6.997	-17.2	110	0.00	12.85
95		4-Isopropyltoluene	4.704	5.344	-13.6	105	0.00	12.98
96		1,3-Dichlorobenzene	2.818	3.056	-8.4	101	0.00	13.12
97		1,4-Dichlorobenzene	2.925	3.078	-5.2	102	0.00	13.20
98		n-Butylbenzene	2.870	3.330	-16.0	108	0.00	13.41
99		Benzyl Chloride	0.594	0.537	9.6	81	0.00	13.43
100		1,2-Dichlorobenzene	2.838	3.027	-6.7	103	0.00	13.62
101		1,2-Dibromo-3-Chloropropa	0.287	0.335	-16.7	114	0.00	14.36
102		Hexachlorobutadiene	1.197	1.199	-0.2	96	0.00	14.91
103		1,2,4-Trichlorobenzene	2.013	2.106	-4.6	101	0.00	14.95
104		Naphthalene	3.895	4.610	-18.4	109	0.00	15.24

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5530-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981943.D
Project: BMSMC, Building 5 Area, Humacao, PR

105	1,2,3-Trichlorobenzene	1.868	1.924	-3.0	98	0.00	15.41
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	106	0.00	5.28
	----------	Amount	Calc.	%Drift	----------		
107	Ethanol	800.000	909.520	-13.7	120	-0.01	4.27
	----------	AvgRF	CCRF	%Dev	----------		
108	acrolein	3.475	3.536	-1.8	107	0.00	4.73
109	Tert Butyl Alcohol	2.118	2.283	-7.8	119	0.00	5.35
110	tert Amyl alcohol	1.645	1.783	-8.4	113	0.00	7.55
111	Isobutyl alcohol	0.664	0.743	-11.9	117	0.00	7.43
112	1,4-Dioxane	0.175	0.184	-5.1	113	-0.01	8.64
113	3,3-Dimethyl-1-butanol	1.707	1.840	-7.8	114	0.00	10.41

(#) = Out of Range SPCC's out = 0 CCC's out = 1
J0981880.D MSJ123016.M Wed Jan 04 09:57:29 2017

6.7.5
6

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5532-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981946.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\010417\J0981946.D          Vial: 1
Acq On    :  4 Jan 2017   8:58 am                    Operator: darshnap
Sample    : CC5529-5                                 Inst    : MSVOA6
Misc      : MS35986,VJ5532,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 08:23:52 2017
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	108	0.00	7.73
2		Dichlorodifluoromethane	0.544	0.501	7.9	99	0.00	2.66
3	P	Chloromethane	0.788	0.786	0.3	110	0.00	2.87
4	C	Vinyl Chloride	0.478	0.445	6.9	105	0.00	3.02
		----------	Amount	Calc.	%Drift		----------	
5		1,3-Butadiene	40.000	37.624	5.9	99	0.00	3.01
6		Bromomethane	40.000	30.826	22.9#	86	0.00	3.44
7		Chloroethane	40.000	32.024	19.9	90	0.00	3.59
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.582	0.514	11.7	97	0.00	3.80
9		Ethyl Ether	0.424	0.451	-6.4	113	0.00	4.10
10		1,2-Dichlorotrifluoroetha	0.525	0.006	98.9#	1#	0.11	4.43
11	C	1,1-Dichloroethene	0.730	0.821	-12.5	118	0.00	4.37
		----------	Amount	Calc.	%Drift		----------	
12		Freon 113	40.000	40.028	-0.1	104	0.00	4.44
		----------	AvgRF	CCRF	%Dev		----------	
13		Carbon Disulfide	1.523	1.599	-5.0	109	0.00	4.46
14		Iodomethane	0.775	0.714	7.9	99	0.00	4.56
15		Allyl chloride	0.875	0.940	-7.4	113	0.00	4.90
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	47.132	-17.8	125	0.00	5.02
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.040	0.046	-15.0	119	0.00	5.05
18		Methyl acetate	0.063	0.072	-14.3	116	0.00	5.17
19		trans-1,2-Dichloroethene	0.709	0.784	-10.6	119	0.00	5.21
		----------	Amount	Calc.	%Drift		----------	
20		Hexane	40.000	42.826	-7.1	114	0.00	5.27
		----------	AvgRF	CCRF	%Dev		----------	
21		Methyl Tert Butyl Ether	1.407	1.461	-3.8	109	0.00	5.31
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	473.041	-18.3	116	0.00	5.57
		----------	AvgRF	CCRF	%Dev		----------	

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5532-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981946.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	1.890	2.082	-10.2	114	0.00	5.70
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	40.453	-1.1	105	0.00	5.84
		----------	AvgRF	CCRF	%Dev	----------		
25	P	1,1-Dichloroethane	0.848	0.977	-15.2	123	0.00	5.87
26		Acrylonitrile	0.177	0.210	-18.6	125	0.00	5.90
27		ETBE	1.744	1.821	-4.4	111	0.00	6.09
		----------	Amount	Calc.	%Drift	----------		
28		Vinyl acetate	200.000	239.323	-19.7	125	0.00	6.08
		----------	AvgRF	CCRF	%Dev	----------		
29		cis-1,2-Dichloroethene	0.524	0.537	-2.5	113	0.00	6.45
30		2,2-Dichloropropane	0.728	0.815	-12.0	118	0.00	6.58
31		Bromochloromethane	0.240	0.229	4.6	103	0.00	6.66
32		Cyclohexane	0.951	0.986	-3.7	107	0.00	6.71
33	C	Chloroform	0.860	0.861	-0.1	109	0.00	6.71
34		Ethyl acetate	0.438	0.525	-19.9	125	0.00	6.78
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	45.720	-14.3	124	0.00	6.89
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.236	0.228	3.4	107	0.00	6.91
37		Carbon Tetrachloride	0.595	0.603	-1.3	104	0.00	6.91
38		1,1,1-Trichloroethane	0.753	0.770	-2.3	107	0.00	6.97
39		2-Butanone	0.210	0.241	-14.8	124	0.00	7.00
40		1,1-Dichloropropene	0.608	0.630	-3.6	107	0.00	7.08
41		tert-Butyl Formate	0.500	0.519	-3.8	112	0.00	7.16
42		Propionitrile	0.065	0.074	-13.8	121	0.00	7.31
		----------	Amount	Calc.	%Drift	----------		
43		Methacrylonitrile	400.000	471.640	-17.9	121	0.00	7.33
		----------	AvgRF	CCRF	%Dev	----------		
44		Benzene	1.596	1.826	-14.4	120	0.00	7.33
45		TAME	1.423	1.499	-5.3	107	0.00	7.41
46	S	1,2-Dichloroethane-d4	0.317	0.329	-3.8	111	0.00	7.46
47		1,2-Dichloroethane	0.660	0.731	-10.8	116	0.00	7.52
48		Trichloroethene	0.467	0.498	-6.6	110	0.00	7.91
49		Methylcyclohexane	0.835	0.875	-4.8	108	0.00	7.93
50		Dibromomethane	0.283	0.312	-10.2	117	0.00	8.33
51	C	1,2-Dichloropropane	0.496	0.559	-12.7	116	0.00	8.43
52		Bromodichloromethane	0.619	0.655	-5.8	114	0.00	8.47
		----------	Amount	Calc.	%Drift	----------		
53		Methyl methacrylate	40.000	46.197	-15.5	120	0.00	8.57
		----------	AvgRF	CCRF	%Dev	----------		
54		2-Chloroethyl vinyl ether	0.294	0.346	-17.7	123	0.00	8.99
55		cis-1,3-Dichloropropene	0.759	0.819	-7.9	112	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00	10.82
57	S	Toluene-d8	1.328	1.362	-2.6	108	0.00	9.28
58	C	Toluene	2.478	2.884	-16.4	118	0.00	9.33
59		2-Nitropropane	0.163	0.189	-16.0	120	0.00	9.53
		----------	Amount	Calc.	%Drift	----------		

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5532-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981946.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone	200.000	241.019	-20.5#	121	0.00	9.65
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.910	1.129	-24.1#	122	0.00	9.71
		----------	Amount	Calc.	%Drift	----------		
62		Tetrachloroethene	40.000	35.364	11.6	89	0.00	9.74
		----------	AvgRF	CCRF	%Dev	----------		
63		Ethyl methacrylate	0.861	0.984	-14.3	115	0.00	9.82
64		1,1,2-Trichloroethane	0.458	0.559	-22.1#	121	0.00	9.88
65		Dibromochloromethane	0.615	0.683	-11.1	110	0.00	10.08
66		1,3-Dichloropropane	1.015	1.122	-10.5	111	0.00	10.16
67		1,2-Dibromoethane	0.572	0.641	-12.1	111	0.00	10.34
68		2-hexanone	0.450	0.552	-22.7#	122	0.00	10.47
69		1-Chlorohexane	0.920	0.998	-8.5	104	0.00	10.77
70	C	Ethylbenzene	2.779	3.160	-13.7	114	0.00	10.84
71	P	Chlorobenzene	1.705	1.796	-5.3	106	0.00	10.84
72		1,1,1,2-Tetrachloroethane	0.628	0.683	-8.8	107	0.00	10.89
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	86.306	-7.9	109	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	2.548	2.745	-7.7	108	0.00	11.42
75		Styrene	1.760	2.065	-17.3	113	0.00	11.46
76	P	Bromoform	0.431	0.432	-0.2	97	0.00	11.52
77		Isopropylbenzene	2.968	3.229	-8.8	109	0.00	11.72
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	13.19
79	S	4-Bromofluorobenzene	0.997	1.049	-5.2	110	0.00	12.03
80		cis-1,4-Dichloro-2-butene	0.401	0.388	3.2	98	0.00	12.07
81		n-Propylbenzene	6.637	7.107	-7.1	109	0.00	12.14
82		Bromobenzene	1.384	1.509	-9.0	110	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	1.451	1.560	-7.5	114	0.00	12.20
84		1,3,5-Trimethylbenzene	4.400	4.973	-13.0	113	0.00	12.32
85		2-Chlorotoluene	4.516	4.786	-6.0	108	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	0.441	0.445	-0.9	104	0.00	12.38
87		1,2,3-Trichloropropane	0.375	0.413	-10.1	108	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	284.827	-42.4#	144	0.00	12.42
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	4.309	4.653	-8.0	107	0.00	12.50
90		a-Methyl Styrene	2.747	2.918	-6.2	103	0.00	12.59
91		tert-Butylbenzene	2.868	3.024	-5.4	108	0.00	12.66
92		1,2,4-Trimethylbenzene	4.359	4.987	-14.4	115	0.00	12.73
93		Pentachloroethane	0.854	0.935	-9.5	114	0.00	12.72
94		sec-Butylbenzene	5.969	6.451	-8.1	107	0.00	12.85
95		4-Isopropyltoluene	4.704	5.395	-14.7	112	0.00	12.98
96		1,3-Dichlorobenzene	2.818	3.002	-6.5	105	0.00	13.12
97		1,4-Dichlorobenzene	2.925	2.942	-0.6	104	0.00	13.20
98		n-Butylbenzene	2.870	3.376	-17.6	116	0.00	13.41
99		Benzyl Chloride	0.594	0.618	-4.0	98	0.00	13.43
100		1,2-Dichlorobenzene	2.838	2.910	-2.5	105	0.00	13.63
101		1,2-Dibromo-3-Chloropropa	0.287	0.320	-11.5	116	0.00	14.36
102		Hexachlorobutadiene	1.197	1.080	9.8	92	0.00	14.91
103		1,2,4-Trichlorobenzene	2.013	2.110	-4.8	107	0.00	14.95
104		Naphthalene	3.895	4.974	-27.7#	125	0.00	15.24

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5532-CC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981946.D
Project: BMSMC, Building 5 Area, Humacao, PR

105	1,2,3-Trichlorobenzene	1.868	1.994	-6.7	107	0.00	15.41
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	108	0.00	5.28

		Amount	Calc.	%Drift			
107	Ethanol	800.000	918.397	-14.8	123	-0.01	4.27

		AvgRF	CCRF	%Dev			
108	acrolein	3.475	3.653	-5.1	112	0.00	4.73
109	Tert Butyl Alcohol	2.118	2.054	3.0	109	0.00	5.35
110	tert Amyl alcohol	1.645	1.645	0.0	106	0.00	7.55
111	Isobutyl alcohol	0.664	0.723	-8.9	116	0.00	7.43
112	1,4-Dioxane	0.175	0.165	5.7	103	-0.01	8.64
113	3,3-Dimethyl-1-butanol	1.707	1.770	-3.7	111	0.00	10.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0981880.D MSJ123016.M Wed Jan 04 10:05:43 2017

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5532-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981967.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\010417\J0981967.D          Vial: 17
Acq On    :  4 Jan 2017   6:04 pm                     Operator: darshnap
Sample    : ecc5529-5                                 Inst    : MSVOA6
Misc      : MS35997,VJ5532,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jan 03 08:23:52 2017
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	80	0.00	7.73
2		Dichlorodifluoromethane	0.544	0.615	-13.1	90	0.00	2.65
3	P	Chloromethane	0.788	0.975	-23.7	101	0.00	2.87
4	C	Vinyl Chloride	0.478	0.594	-24.3#	103	0.00	3.02
		----------	Amount	Calc.	%Drift		----------	
5		1,3-Butadiene	40.000	49.848	-24.6	97	0.00	3.01
6		Bromomethane	40.000	34.578	13.6	71	0.00	3.43
7		Chloroethane	40.000	38.201	4.5	78	0.00	3.59
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.582	0.628	-7.9	87	0.00	3.80
9		Ethyl Ether	0.424	0.485	-14.4	90	0.00	4.10
10		1,2-Dichlorotrifluoroetha	0.525	0.618	-17.7	93	0.00	4.33
11	C	1,1-Dichloroethene	0.730	0.860	-17.8	91	0.00	4.37
		----------	Amount	Calc.	%Drift		----------	
12		Freon 113	40.000	44.347	-10.9	85	0.00	4.44
		----------	AvgRF	CCRF	%Dev		----------	
13		Carbon Disulfide	1.523	1.708	-12.1	87	0.00	4.46
14		Iodomethane	0.775	0.721	7.0	74	0.00	4.57
15		Allyl chloride	0.875	1.031	-17.8	92	0.00	4.90
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	49.224	-23.1	96	0.00	5.03
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.040	0.049	-22.5	92	0.00	5.05
18		Methyl acetate	0.063	0.077	-22.2	91	0.00	5.17
19		trans-1,2-Dichloroethene	0.709	0.805	-13.5	90	0.00	5.21
		----------	Amount	Calc.	%Drift		----------	
20		Hexane	40.000	46.551	-16.4	92	0.00	5.27
		----------	AvgRF	CCRF	%Dev		----------	
21		Methyl Tert Butyl Ether	1.407	1.561	-10.9	86	0.00	5.31
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	516.710	-29.2	93	0.00	5.58
		----------	AvgRF	CCRF	%Dev		----------	

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5532-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981967.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	1.890	2.344	-24.0	95	0.00	5.69
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	47.750	-19.4	92	0.00	5.85
		----------	AvgRF	CCRF	%Dev		----------	
25	P	1,1-Dichloroethane	0.848	0.970	-14.4	90	0.00	5.87
26		Acrylonitrile	0.177	0.226	-27.7	100	0.00	5.90
27		ETBE	1.744	1.958	-12.3	88	0.00	6.09
		----------	Amount	Calc.	%Drift		----------	
28		Vinyl acetate	200.000	273.697	-36.8	103	0.00	6.08
		----------	AvgRF	CCRF	%Dev		----------	
29		cis-1,2-Dichloroethene	0.524	0.550	-5.0	86	0.00	6.45
30		2,2-Dichloropropane	0.728	0.715	1.8	76	0.00	6.58
31		Bromochloromethane	0.240	0.241	-0.4	81	0.00	6.66
32		Cyclohexane	0.951	1.079	-13.5	87	0.00	6.71
33	C	Chloroform	0.860	0.909	-5.7	85	0.00	6.71
34		Ethyl acetate	0.438	0.609	-39.0	108	0.00	6.78
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	53.412	-33.5	107	0.00	6.90
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.236	0.225	4.7	78	0.00	6.91
37		Carbon Tetrachloride	0.595	0.576	3.2	73	0.00	6.91
38		1,1,1-Trichloroethane	0.753	0.802	-6.5	83	0.00	6.97
39		2-Butanone	0.210	0.256	-21.9	98	0.00	7.00
40		1,1-Dichloropropene	0.608	0.687	-13.0	86	0.00	7.08
41		tert-Butyl Formate	0.500	0.511	-2.2	81	0.00	7.16
42		Propionitrile	0.065	0.080	-23.1	97	0.00	7.31
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	563.544	-40.9	104	0.00	7.33
		----------	AvgRF	CCRF	%Dev		----------	
44		Benzene	1.596	1.768	-10.8	86	0.00	7.33
45		TAME	1.423	1.602	-12.6	85	0.00	7.41
46	S	1,2-Dichloroethane-d4	0.317	0.354	-11.7	88	0.00	7.46
47		1,2-Dichloroethane	0.660	0.751	-13.8	88	0.00	7.52
48		Trichloroethene	0.467	0.504	-7.9	83	0.00	7.91
49		Methylcyclohexane	0.835	0.943	-12.9	86	0.00	7.93
50		Dibromomethane	0.283	0.315	-11.3	87	0.00	8.34
51	C	1,2-Dichloropropane	0.496	0.588	-18.5	91	0.00	8.43
52		Bromodichloromethane	0.619	0.657	-6.1	84	0.00	8.47
		----------	Amount	Calc.	%Drift		----------	
53		Methyl methacrylate	40.000	52.354	-30.9	100	0.00	8.57
		----------	AvgRF	CCRF	%Dev		----------	
54		2-Chloroethyl vinyl ether	0.294	0.363	-23.5	96	0.00	8.99
55		cis-1,3-Dichloropropene	0.759	0.847	-11.6	86	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	79	0.00	10.82
57	S	Toluene-d8	1.328	1.345	-1.3	81	0.00	9.28
58	C	Toluene	2.478	2.723	-9.9	84	0.00	9.33
59		2-Nitropropane	0.163	0.204	-25.2	98	0.00	9.53
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5532-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981967.D
Project: BMSMC, Building 5 Area, Humacao, PR

60		4-Methyl-2-pentanone	200.000	267.648	-33.8	100	0.00	9.65
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.910	1.026	-12.7	84	0.00	9.71
		----------	Amount	Calc.	%Drift	----------		
62		Tetrachloroethene	40.000	36.331	9.2	69	0.00	9.74
		----------	AvgRF	CCRF	%Dev	----------		
63		Ethyl methacrylate	0.861	1.064	-23.6	94	0.00	9.82
64		1,1,2-Trichloroethane	0.458	0.539	-17.7	89	0.00	9.88
65		Dibromochloromethane	0.615	0.619	-0.7	76	0.00	10.08
66		1,3-Dichloropropane	1.015	1.188	-17.0	89	0.00	10.16
67		1,2-Dibromoethane	0.572	0.645	-12.8	85	0.00	10.34
68		2-hexanone	0.450	0.605	-34.4	101	0.00	10.47
69		1-Chlorohexane	0.920	1.063	-15.5	84	0.00	10.77
70	C	Ethylbenzene	2.779	3.056	-10.0	83	0.00	10.84
71	P	Chlorobenzene	1.705	1.816	-6.5	81	0.00	10.84
72		1,1,1,2-Tetrachloroethane	0.628	0.637	-1.4	76	0.00	10.90
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	87.917	-9.9	84	0.00	10.98
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	2.548	2.856	-12.1	85	0.00	11.42
75		Styrene	1.760	1.964	-11.6	82	0.00	11.46
76	P	Bromoform	0.431	0.381	11.6	65	0.00	11.52
77		Isopropylbenzene	2.968	3.280	-10.5	84	0.00	11.72
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	78	0.00	13.18
79	S	4-Bromofluorobenzene	0.997	1.045	-4.8	82	0.00	12.03
80		cis-1,4-Dichloro-2-butene	0.401	0.324	19.2	61	0.00	12.06
81		n-Propylbenzene	6.637	7.563	-14.0	87	0.00	12.14
82		Bromobenzene	1.384	1.382	0.1	75	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	1.451	1.646	-13.4	90	0.00	12.20
84		1,3,5-Trimethylbenzene	4.400	4.899	-11.3	83	0.00	12.32
85		2-Chlorotoluene	4.516	5.037	-11.5	85	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	0.441	0.348	21.1	61	0.00	12.38
87		1,2,3-Trichloropropane	0.375	0.429	-14.4	84	0.00	12.36
		----------	Amount	Calc.	%Drift	----------		
88		Cyclohexanone	200.000	209.531	-4.8	80	0.00	12.42
		----------	AvgRF	CCRF	%Dev	----------		
89		4-Chlorotoluene	4.309	4.969	-15.3	85	0.00	12.50
90		a-Methyl Styrene	2.747	3.236	-17.8	85	0.00	12.59
91		tert-Butylbenzene	2.868	3.295	-14.9	88	0.00	12.66
92		1,2,4-Trimethylbenzene	4.359	4.947	-13.5	85	0.00	12.73
93		Pentachloroethane	0.854	0.829	2.9	75	0.00	12.72
94		sec-Butylbenzene	5.969	6.857	-14.9	85	0.00	12.85
95		4-Isopropyltoluene	4.704	5.289	-12.4	82	0.00	12.98
96		1,3-Dichlorobenzene	2.818	3.045	-8.1	80	0.00	13.12
97		1,4-Dichlorobenzene	2.925	3.063	-4.7	81	0.00	13.20
98		n-Butylbenzene	2.870	3.331	-16.1	86	0.00	13.41
99		Benzyl Chloride	0.594	0.536	9.8	64	0.00	13.43
100		1,2-Dichlorobenzene	2.838	2.988	-5.3	81	0.00	13.63
101		1,2-Dibromo-3-Chloropropa	0.287	0.311	-8.4	84	0.00	14.36
102		Hexachlorobutadiene	1.197	1.036	13.5	66	0.00	14.91
103		1,2,4-Trichlorobenzene	2.013	1.980	1.6	75	0.00	14.96
104		Naphthalene	3.895	4.543	-16.6	85	0.00	15.24

Continuing Calibration Summary

Job Number: FA39907 **Sample:** VJ5532-ECC5529
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0981967.D
Project: BMSMC, Building 5 Area, Humacao, PR

105	1,2,3-Trichlorobenzene	1.868	1.831	2.0	74	0.00	15.41
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	81	0.00	5.28

		Amount	Calc.	%Drift			
107	Ethanol	800.000	1062.040	-32.8	107	-0.01	4.27

		AvgRF	CCRF	%Dev			
108	acrolein	3.475	4.285	-23.3	99	0.00	4.74
109	Tert Butyl Alcohol	2.118	2.154	-1.7	85	0.01	5.37
110	tert Amyl alcohol	1.645	1.816	-10.4	87	0.00	7.55
111	Isobutyl alcohol	0.664	0.819	-23.3	98	0.00	7.43
112	1,4-Dioxane	0.175	0.180	-2.9	84	0.00	8.65
113	3,3-Dimethyl-1-butanol	1.707	1.829	-7.1	86	0.00	10.41

(#) = Out of Range SPCC's out = 0 CCC's out = 1
J0981880.D MSJ123016.M Thu Jan 05 08:05:07 2017

6.7.7

6

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981922.D
Acq On : 3 Jan 2017 1:16 pm
Operator : darshnap
Sample : fa39907-1 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 13:35:07 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

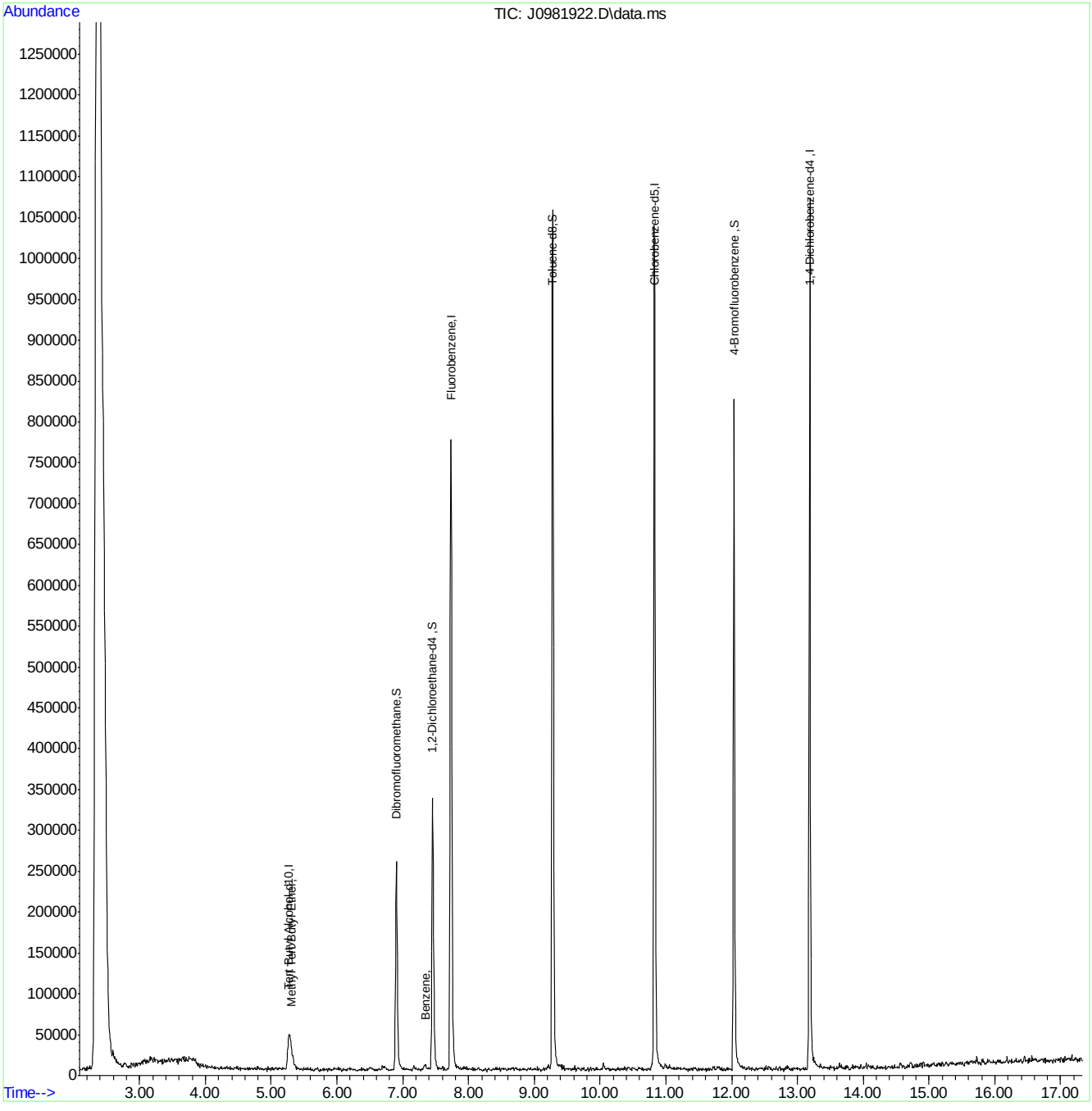
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	652362	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	474595	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	245097	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	80992	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	160138	52.00	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.00%			
46) 1,2-Dichloroethane-d4	7.452	65	228336	55.13	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.26%			
57) Toluene-d8	9.279	98	623306	49.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.90%			
79) 4-Bromofluorobenzene	12.035	95	254272	52.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.02%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.313	73	14808	0.81	ug/L	86
44) Benzene	7.346	78	6070	0.27	ug/L #	52

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

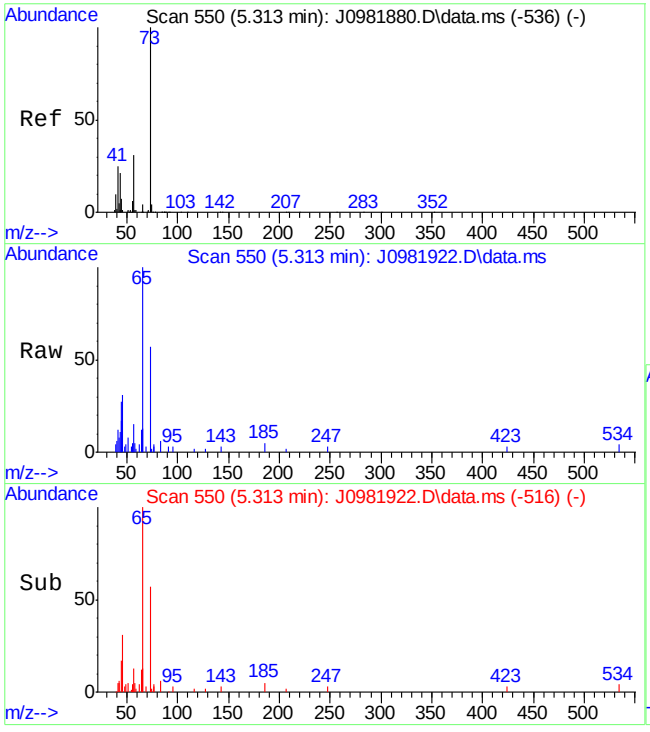
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981922.D
Acq On : 3 Jan 2017 1:16 pm
Operator : darshnap
Sample : fa39907-1 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 13:35:07 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



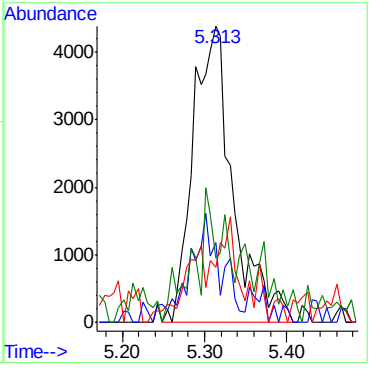
MSJ123016.M Wed Jan 04 09:55:05 2017 Page: 2

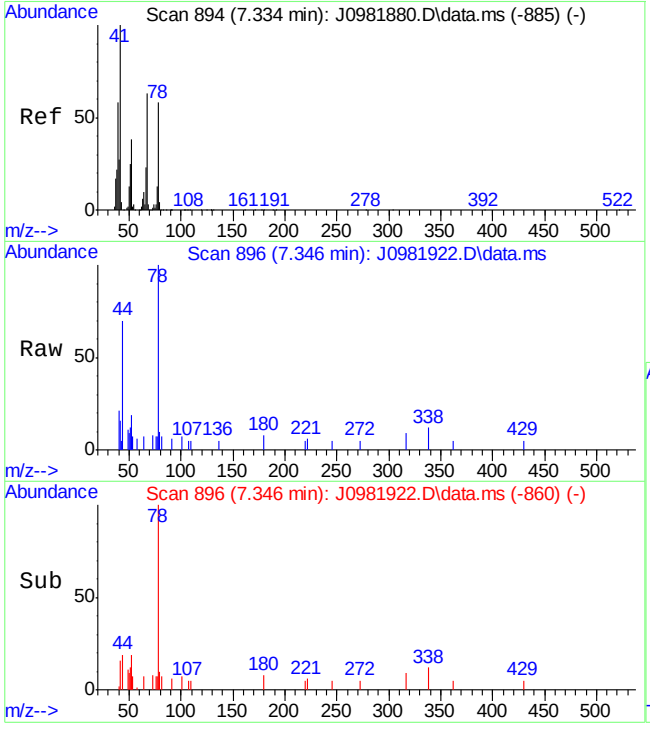


#21
Methyl Tert Butyl Ether
Concen: 0.81 ug/L
RT: 5.313 min Scan# 550
Delta R.T. 0.000 min
Lab File: J0981922.D
Acq: 3 Jan 2017 1:16 pm

Tgt Ion: 73 Resp: 14808

Ion	Ratio	Lower	Upper
73	100		
57	26.8	1.8	61.8
43	15.1	0.0	58.0
41	21.6	0.0	56.1

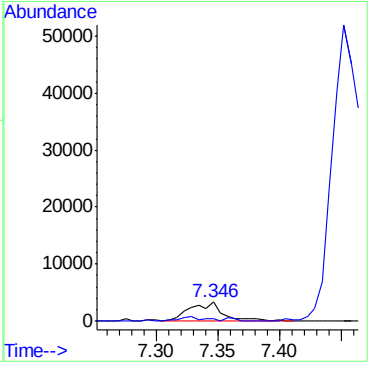




#44
Benzene
Concen: 0.27 ug/L
RT: 7.346 min Scan# 896
Delta R.T. 0.012 min
Lab File: J0981922.D
Acq: 3 Jan 2017 1:16 pm

Tgt Ion: 78 Resp: 6070

Ion	Ratio	Lower	Upper
78	100		
51	12.4	13.6	73.6#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981923.D
Acq On : 3 Jan 2017 1:39 pm
Operator : darshnap
Sample : fa39907-2 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 03 14:31:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	663273	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	481266	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	240237	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	76728	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	157666	50.35	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.70%			
46) 1,2-Dichloroethane-d4	7.452	65	232239	55.15	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.30%			
57) Toluene-d8	9.279	98	623246	48.76	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.52%			
79) 4-Bromofluorobenzene	12.035	95	262443	54.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.54%			
Target Compounds						Qvalue
33) Chloroform	6.712	83	3383	0.30	ug/L	69

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

7.1.2

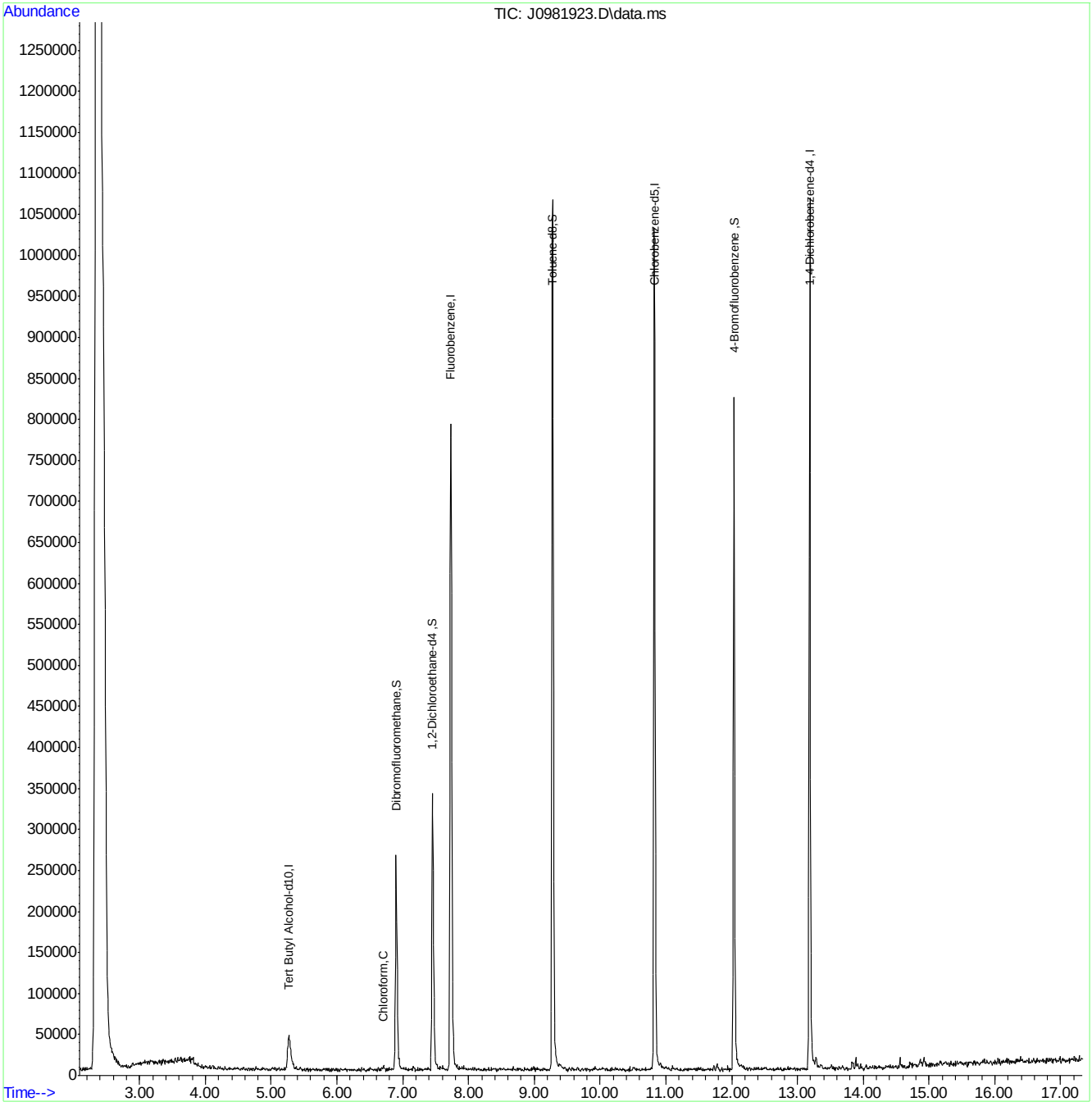
7

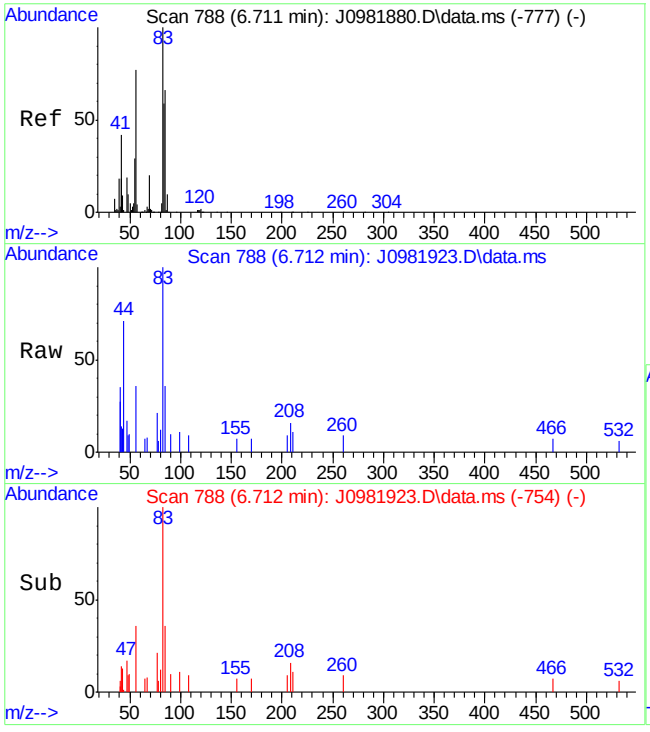
SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981923.D
Acq On : 3 Jan 2017 1:39 pm
Operator : darshnap
Sample : fa39907-2 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 03 14:31:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

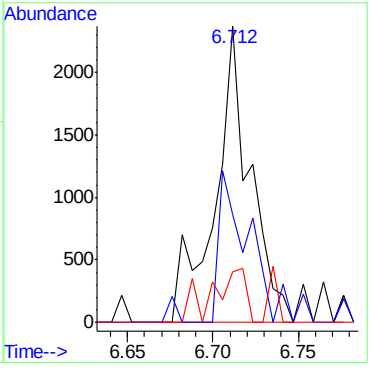




#33
Chloroform
Concen: 0.30 ug/L
RT: 6.712 min Scan# 788
Delta R.T. 0.001 min
Lab File: J0981923.D
Acq: 3 Jan 2017 1:39 pm

Tgt Ion: 83 Resp: 3383

Ion	Ratio	Lower	Upper
83	100		
85	36.4	35.8	95.8
47	17.2	0.0	52.8



7.1.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981924.D
Acq On : 3 Jan 2017 2:03 pm
Operator : darshnap
Sample : fa39907-3 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 03 14:32:22 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	620190	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	458842	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	232178	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	79974	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	152878	52.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.44%			
46) 1,2-Dichloroethane-d4	7.458	65	216925	55.09	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.18%			
57) Toluene-d8	9.279	98	596522	48.95	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.90%			
79) 4-Bromofluorobenzene	12.035	95	242880	52.44	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.88%			

Target Compounds Qvalue

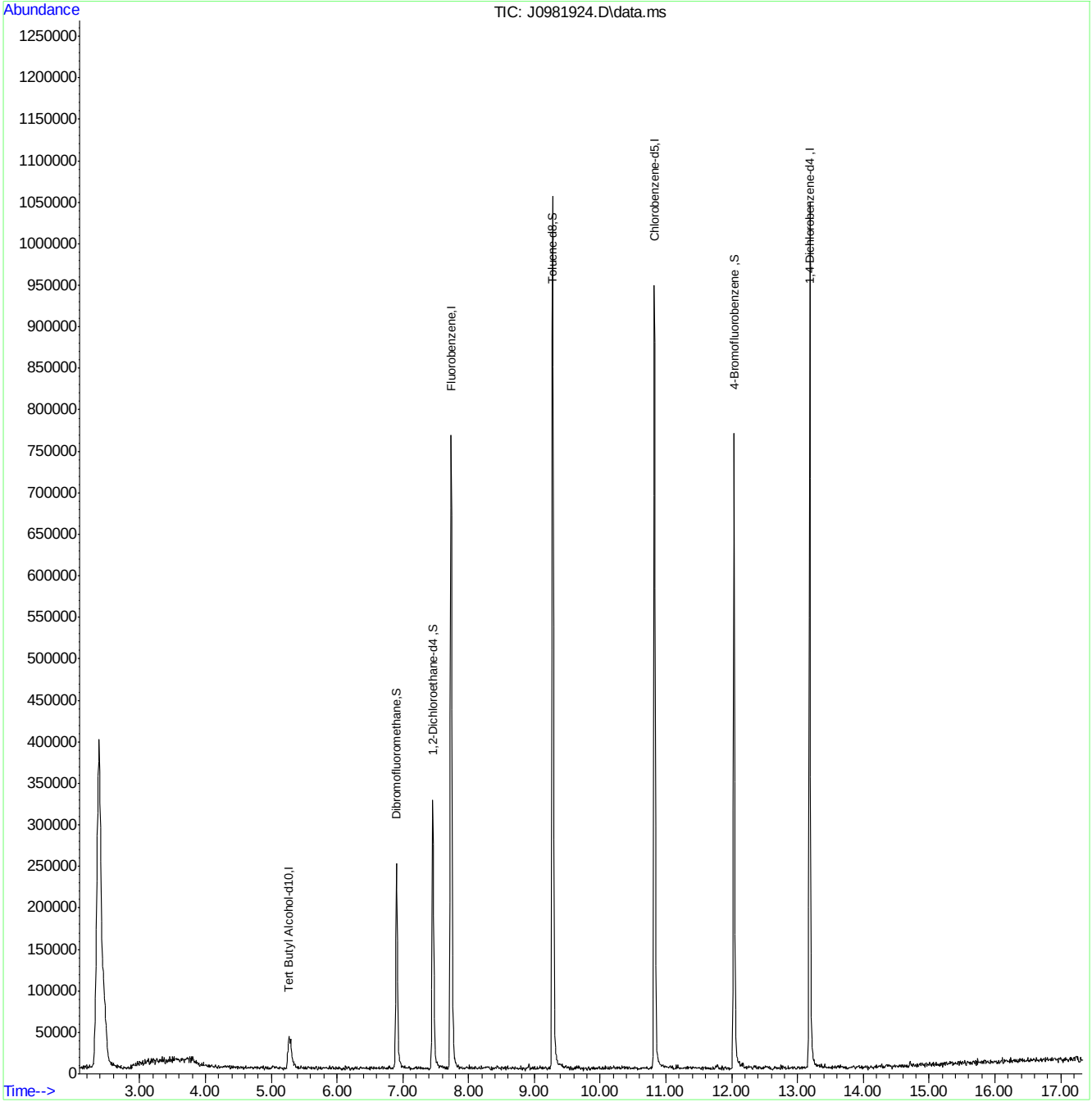
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981924.D
Acq On : 3 Jan 2017 2:03 pm
Operator : darshnap
Sample : fa39907-3 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 03 14:32:22 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981925.D
Acq On : 3 Jan 2017 2:26 pm
Operator : darshnap
Sample : fa39907-4 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 04 08:43:56 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	603353	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	438249	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	217001	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	80024	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.899	113	142991	50.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.40%			
46) 1,2-Dichloroethane-d4	7.458	65	217133	56.69	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 113.38%			
57) Toluene-d8	9.279	98	573574	49.28	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.56%			
79) 4-Bromofluorobenzene	12.035	95	239501	55.33	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.66%			

Target Compounds Qvalue

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

7.1.4

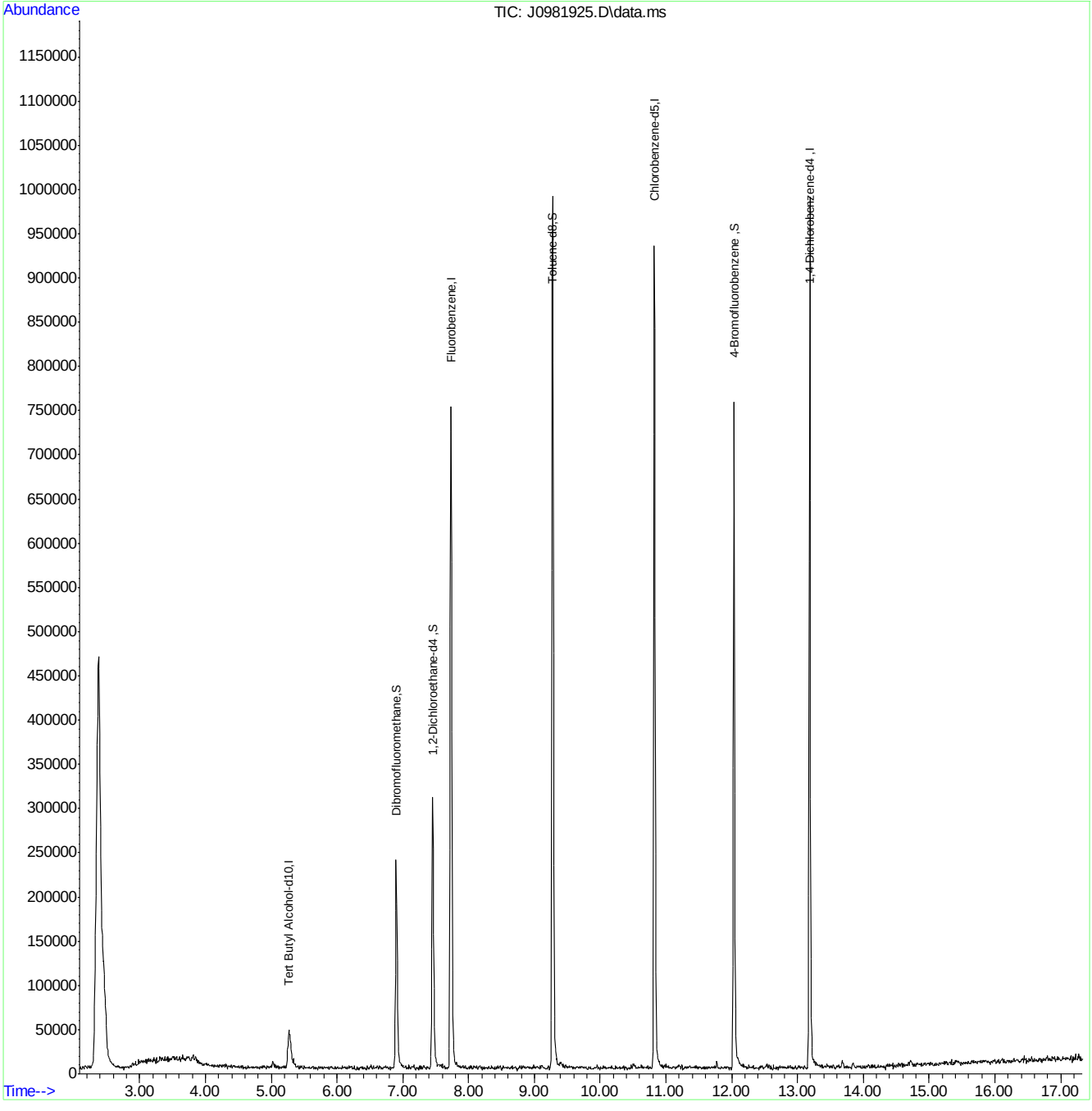
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981925.D
Acq On : 3 Jan 2017 2:26 pm
Operator : darshnap
Sample : fa39907-4 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 04 08:43:56 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981926.D
Acq On : 3 Jan 2017 2:50 pm
Operator : darshnap
Sample : fa39907-5 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 04 08:44:24 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	590237	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	430608	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	212100	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	74524	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.899	113	137788	49.45	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.90%			
46) 1,2-Dichloroethane-d4	7.458	65	211136	56.34	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 112.68%			
57) Toluene-d8	9.279	98	574388	50.23	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.46%			
79) 4-Bromofluorobenzene	12.035	95	228551	54.02	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.04%			
Target Compounds						Qvalue
58) Toluene	9.338	91	8904	0.42	ug/L	78

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

7.1.5

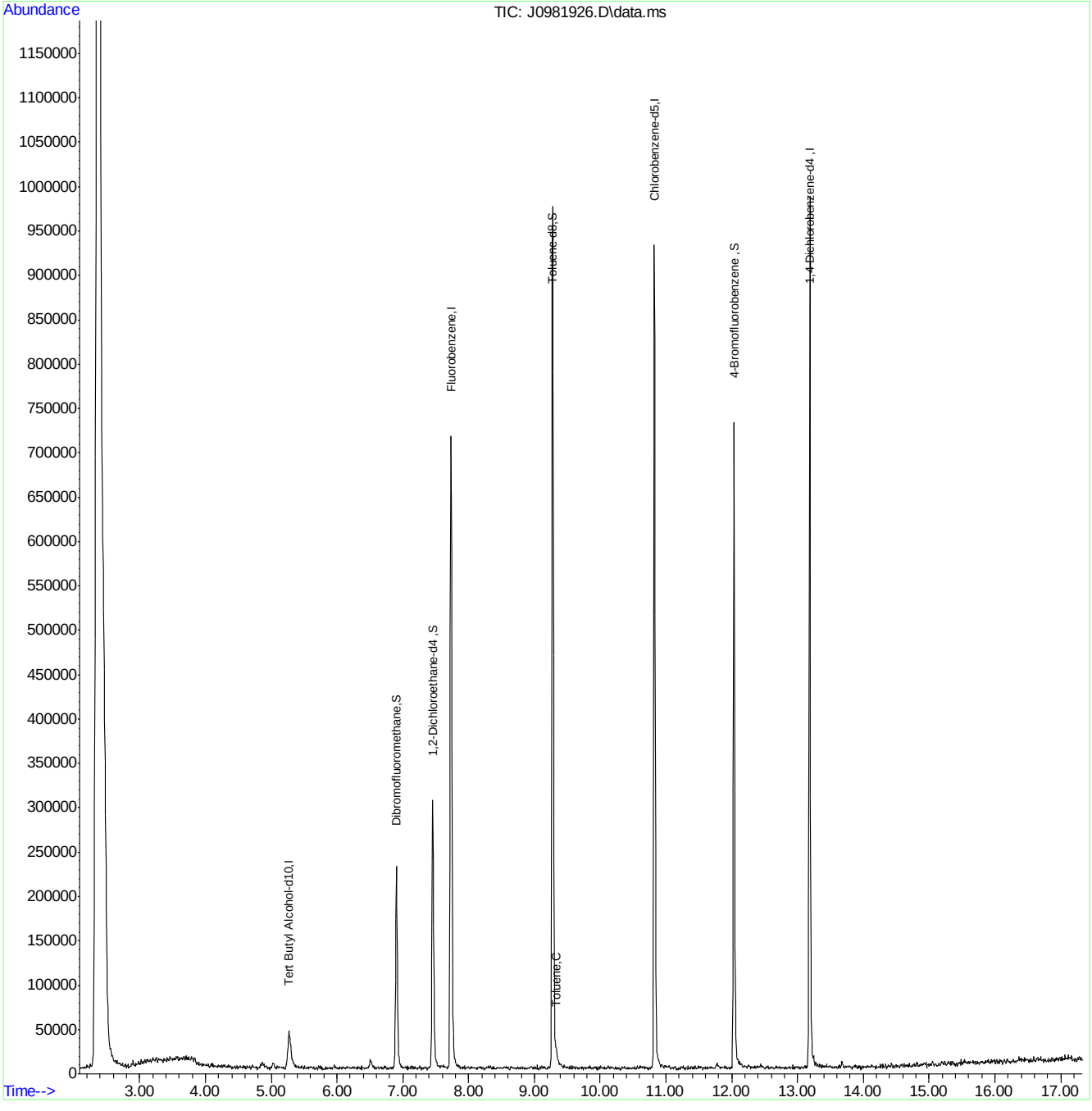
7

SGS ACCUTEST FA39907

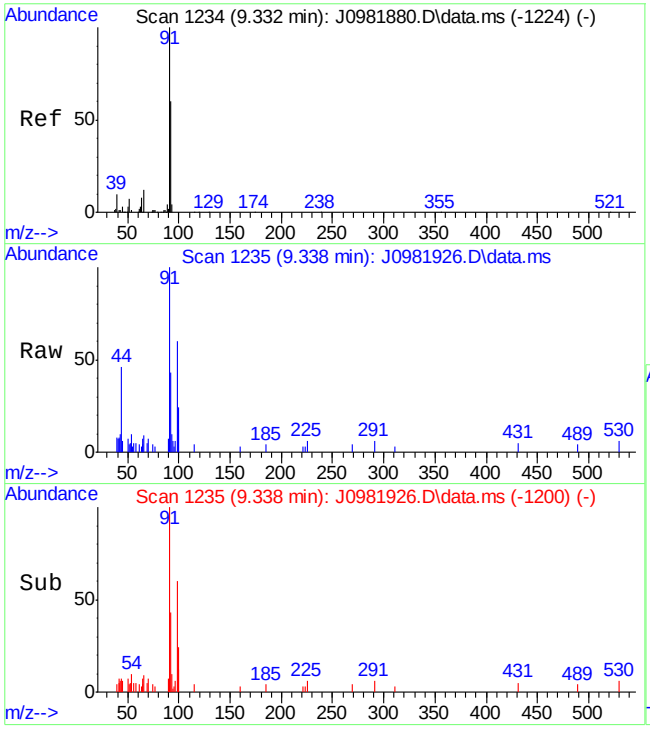
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981926.D
Acq On : 3 Jan 2017 2:50 pm
Operator : darshnap
Sample : fa39907-5 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 04 08:44:24 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



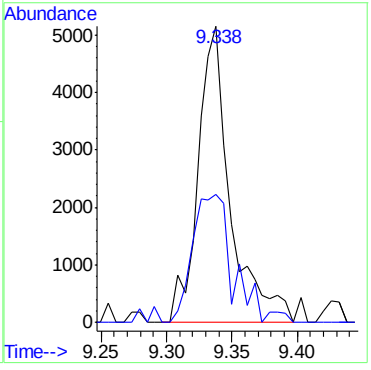
MSJ123016.M Wed Jan 04 09:55:13 2017 Page: 2



#58
Toluene
Concen: 0.42 ug/L
RT: 9.338 min Scan# 1235
Delta R.T. 0.006 min
Lab File: J0981926.D
Acq: 3 Jan 2017 2:50 pm

Tgt Ion: 91 Resp: 8904

Ion	Ratio	Lower	Upper
91	100		
92	43.1	29.9	89.9



7.1.5

7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981927.D
Acq On : 3 Jan 2017 3:14 pm
Operator : darshnap
Sample : fa39907-6 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 04 08:44:59 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	587803	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	425527	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	210004	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	75059	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	139888	50.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.82%			
46) 1,2-Dichloroethane-d4	7.458	65	210572	56.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 112.86%			
57) Toluene-d8	9.279	98	573847	50.78	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.56%			
79) 4-Bromofluorobenzene	12.035	95	225198	53.76	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.52%			
Target Compounds						Qvalue
58) Toluene	9.332	91	6562	0.31	ug/L	83
88) Cyclohexanone	12.428	55	3477	14.19	ug/L #	74

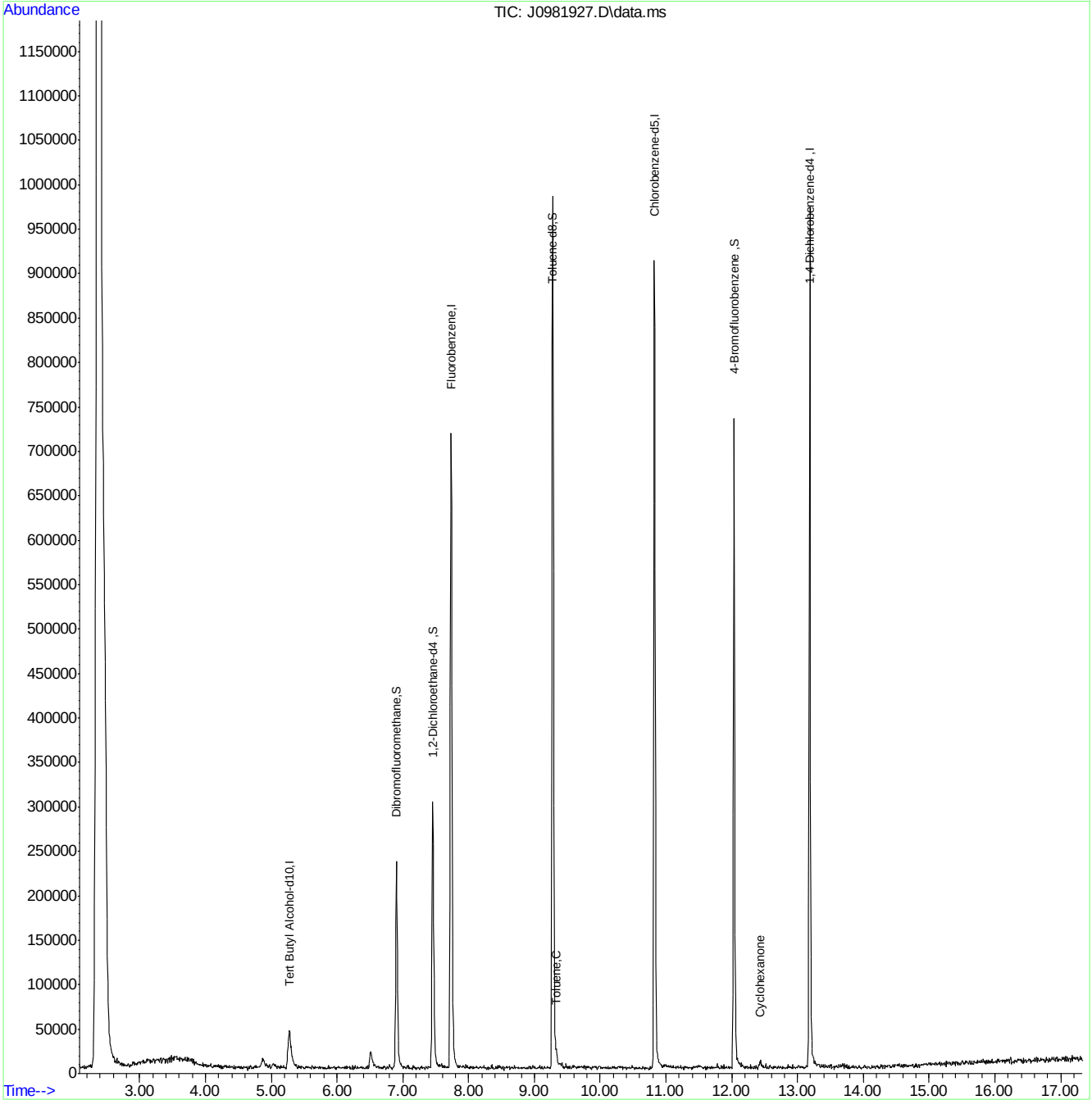
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39907

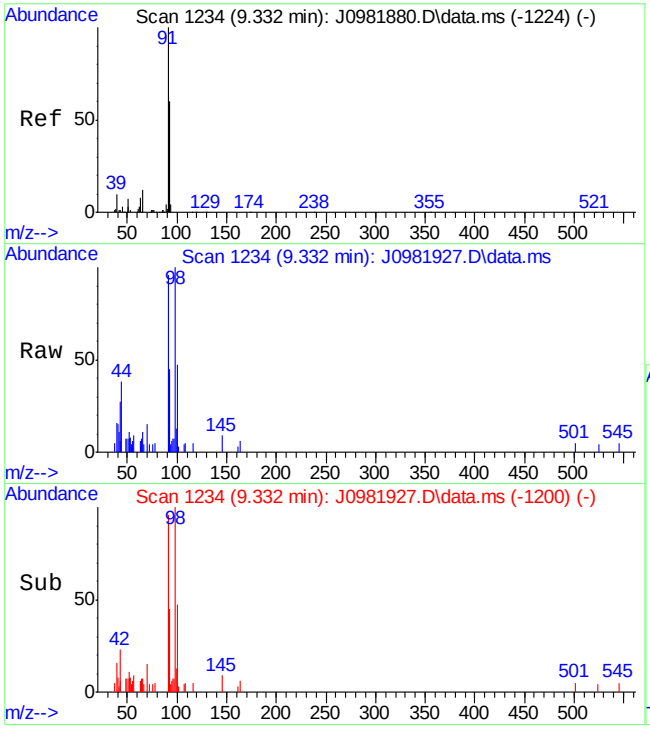
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981927.D
Acq On : 3 Jan 2017 3:14 pm
Operator : darshnap
Sample : fa39907-6 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 04 08:44:59 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



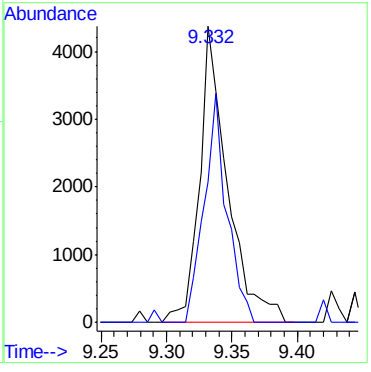
SGS ACCUTEST FA39907

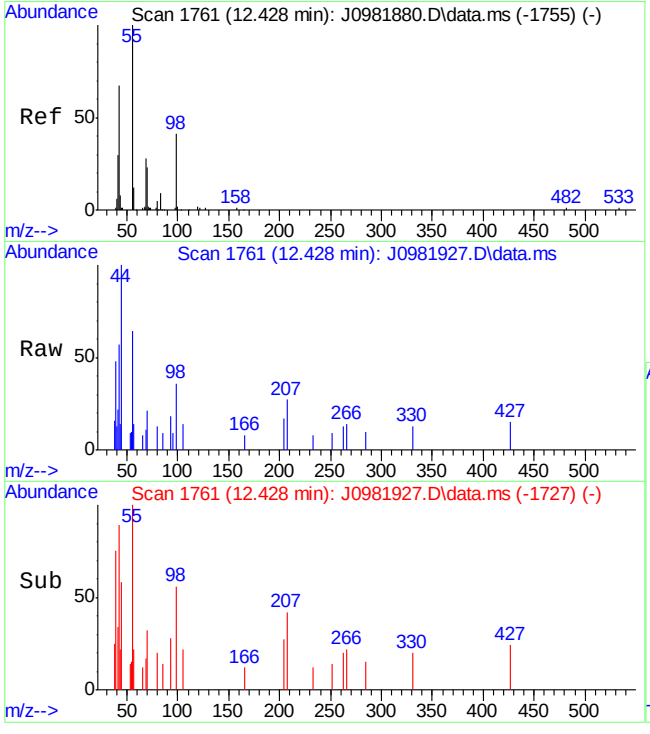


#58
Toluene
Concen: 0.31 ug/L
RT: 9.332 min Scan# 1234
Delta R.T. -0.000 min
Lab File: J0981927.D
Acq: 3 Jan 2017 3:14 pm

Tgt Ion: 91 Resp: 6562

Ion	Ratio	Lower	Upper
91	100		
92	47.2	29.9	89.9

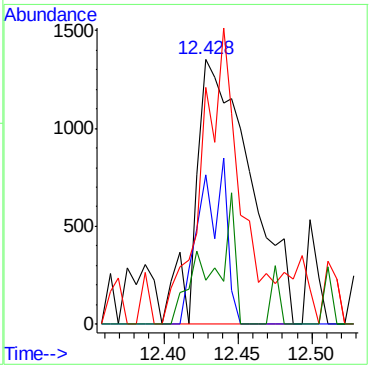




#88
Cyclohexanone
Concen: 14.19 ug/L
RT: 12.428 min Scan# 1761
Delta R.T. 0.000 min
Lab File: J0981927.D
Acq: 3 Jan 2017 3:14 pm

Tgt Ion: 55 Resp: 3477

Ion	Ratio	Lower	Upper
55	100		
98	56.4	21.3	61.3
42	89.2	46.1	86.1#
69	16.8	8.3	48.3



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981928.D
Acq On : 3 Jan 2017 3:38 pm
Operator : darshnap
Sample : fa39907-7 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 04 08:49:29 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

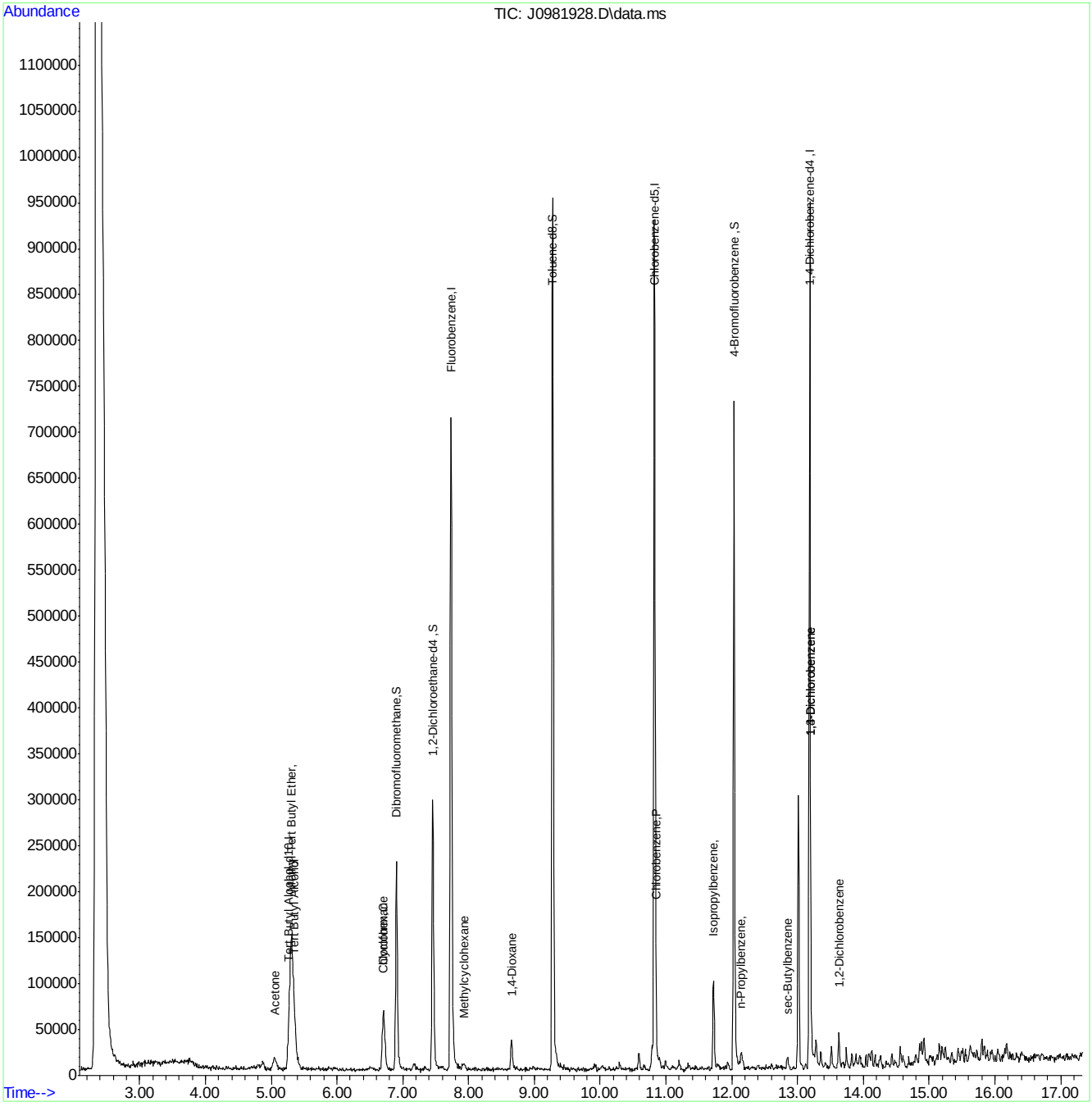
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	584839	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	414747	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	206463	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	75847	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	137715	49.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.76%			
46) 1,2-Dichloroethane-d4	7.458	65	205114	55.24	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.48%			
57) Toluene-d8	9.279	98	548468	49.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.58%			
79) 4-Bromofluorobenzene	12.035	95	222876	54.12	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.24%			
Target Compounds						Qvalue
17) Acetone	5.060	58	5900	12.54	ug/L #	72
21) Methyl Tert Butyl Ether	5.313	73	201925	12.27	ug/L	87
32) Cyclohexane	6.706	56	43312	3.89	ug/L	95
33) Chloroform	6.700	83	2228	0.22	ug/L	86
49) Methylcyclohexane	7.928	83	2186	0.22	ug/L #	65
71) Chlorobenzene	10.848	112	14899	1.05	ug/L	87
77) Isopropylbenzene	11.723	105	58816	2.39	ug/L	91
81) n-Propylbenzene	12.140	91	12354	0.45	ug/L	95
94) sec-Butylbenzene	12.857	105	5679	0.23	ug/L	74
96) 1,3-Dichlorobenzene	13.198	146	6762	0.58	ug/L #	29
97) 1,4-Dichlorobenzene	13.198	146	6762	0.56	ug/L #	30
100) 1,2-Dichlorobenzene	13.627	146	12671	1.08	ug/L	84
109) Tert Butyl Alcohol	5.348	59	85137	134.39	ug/L	98
112) 1,4-Dioxane	8.656	88	21296	401.59	ug/L	93

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

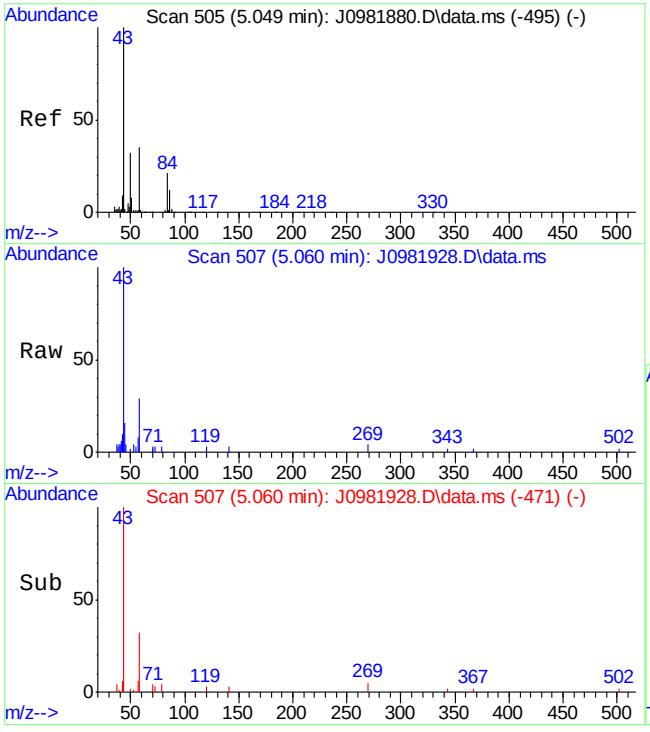
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981928.D
Acq On : 3 Jan 2017 3:38 pm
Operator : darshnap
Sample : fa39907-7 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 04 08:49:29 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



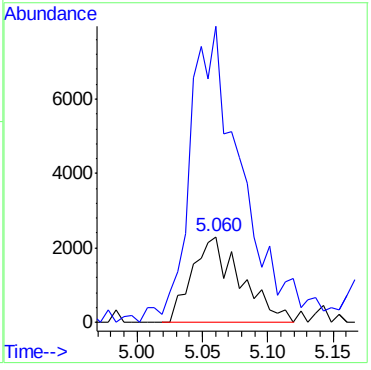
MSJ123016.M Wed Jan 04 09:55:17 2017 Page: 2

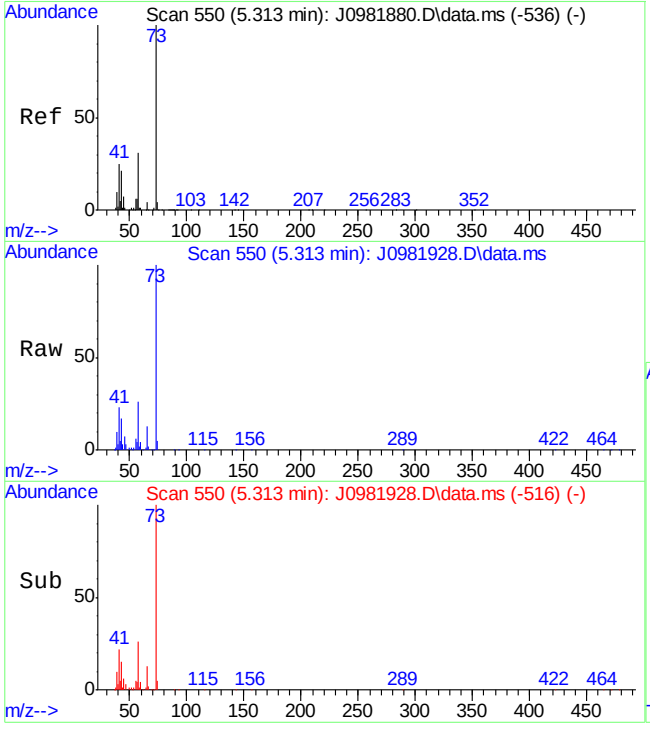


#17
Acetone
Concen: 12.54 ug/L
RT: 5.060 min Scan# 507
Delta R.T. 0.011 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion: 58 Resp: 5900

Ion	Ratio	Lower	Upper
58	100		
43	337.3	253.9	313.9#

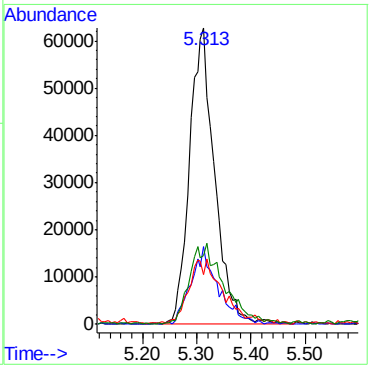


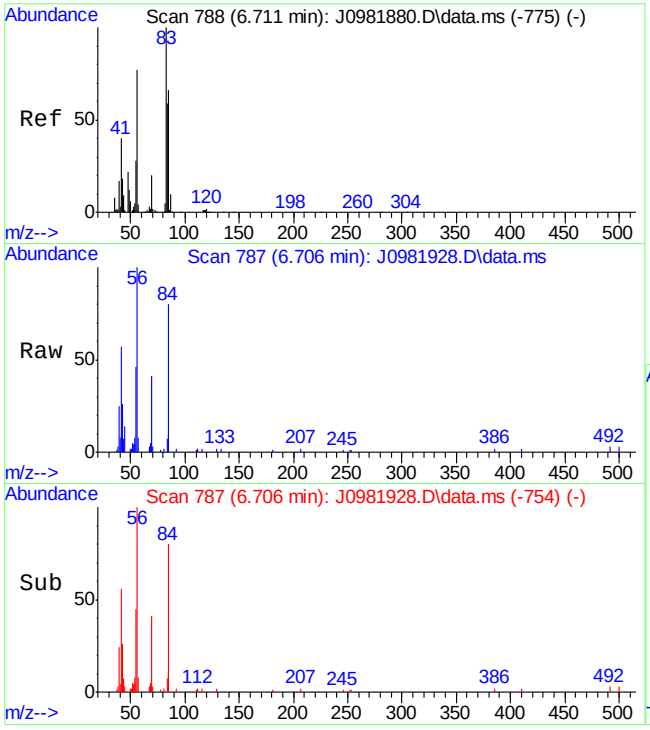


#21
Methyl Tert Butyl Ether
Concen: 12.27 ug/L
RT: 5.313 min Scan# 550
Delta R.T. 0.000 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion: 73 Resp: 201925

Ion	Ratio	Lower	Upper
73	100		
57	26.2	1.8	61.8
43	16.7	0.0	58.0
41	23.0	0.0	56.1

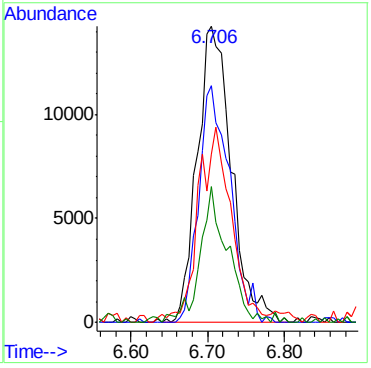


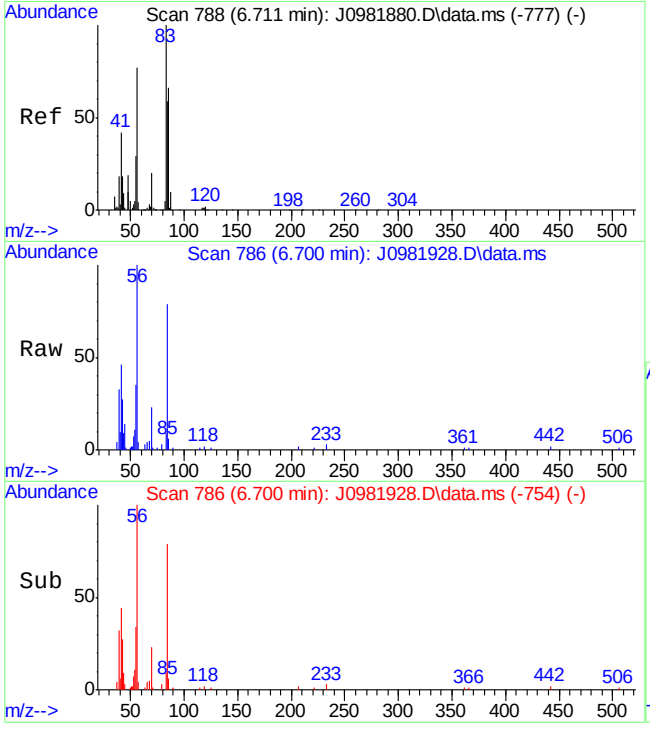


#32
Cyclohexane
Concen: 3.89 ug/L
RT: 6.706 min Scan# 787
Delta R.T. -0.005 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion: 56 Resp: 43312

Ion	Ratio	Lower	Upper
56	100		
84	80.1	57.3	97.3
41	55.2	35.4	75.4
55	45.9	17.2	57.2

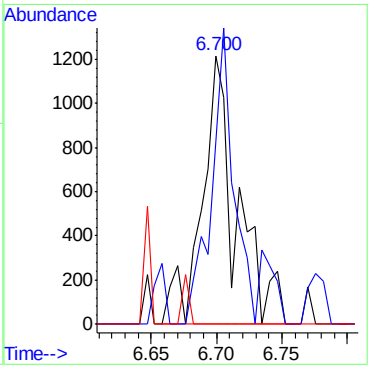


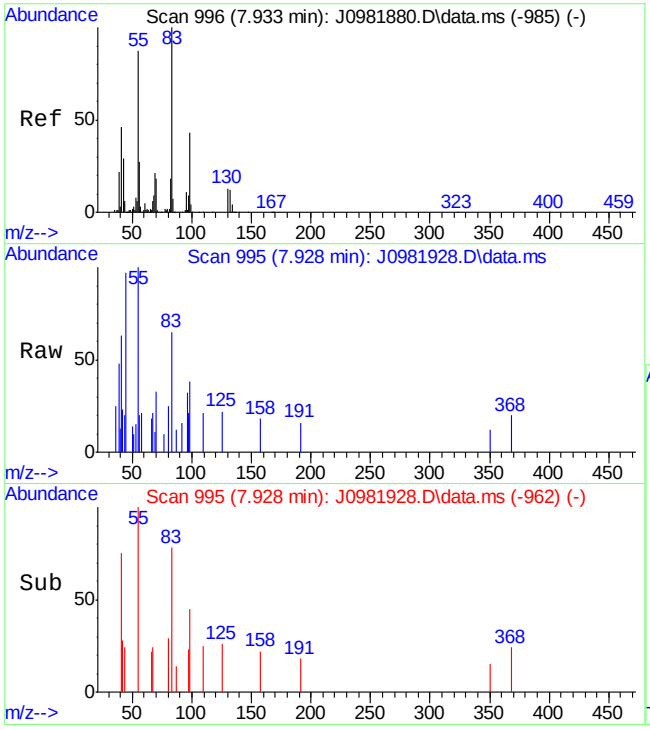


#33
Chloroform
Concen: 0.22 ug/L
RT: 6.700 min Scan# 786
Delta R.T. -0.011 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion: 83 Resp: 2228

Ion	Ratio	Lower	Upper
83	100		
85	68.3	35.8	95.8
47	0.0	0.0	52.8

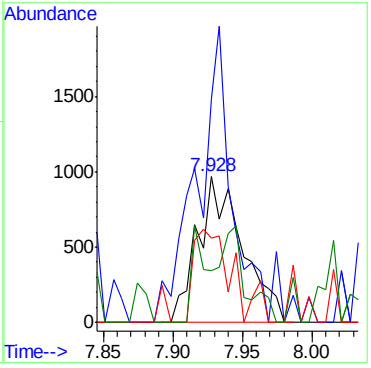


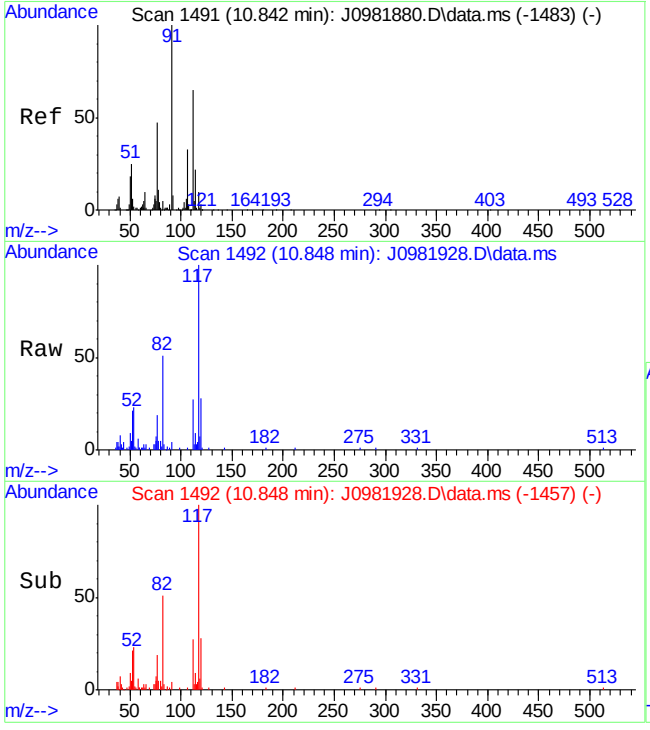


#49
Methylcyclohexane
Concen: 0.22 ug/L
RT: 7.928 min Scan# 995
Delta R.T. -0.005 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion: 83 Resp: 2186

Ion	Ratio	Lower	Upper
83	100		
55	134.5	66.5	106.5#
98	32.9	23.3	63.3
42	35.8	8.5	48.5

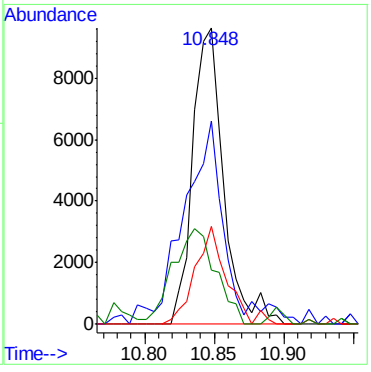


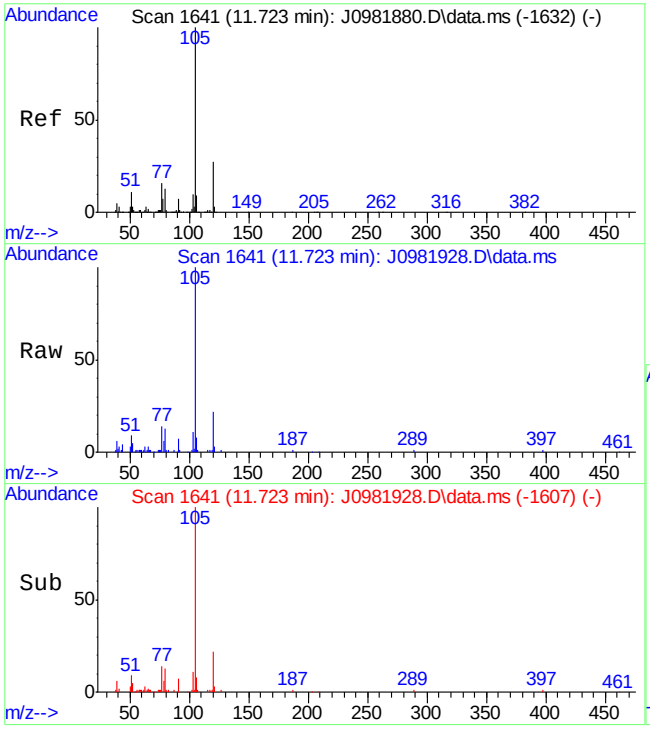


#71
Chlorobenzene
Concen: 1.05 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. 0.006 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion:112 Resp: 14899

Ion	Ratio	Lower	Upper
112	100		
77	66.2	42.6	102.6
114	33.1	3.6	63.6
51	18.1	7.9	67.9

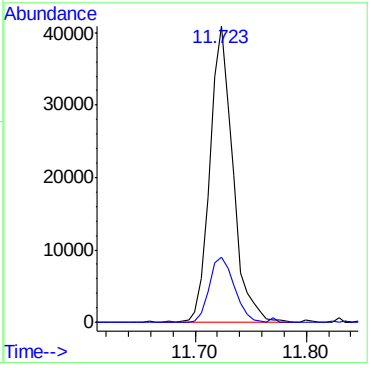


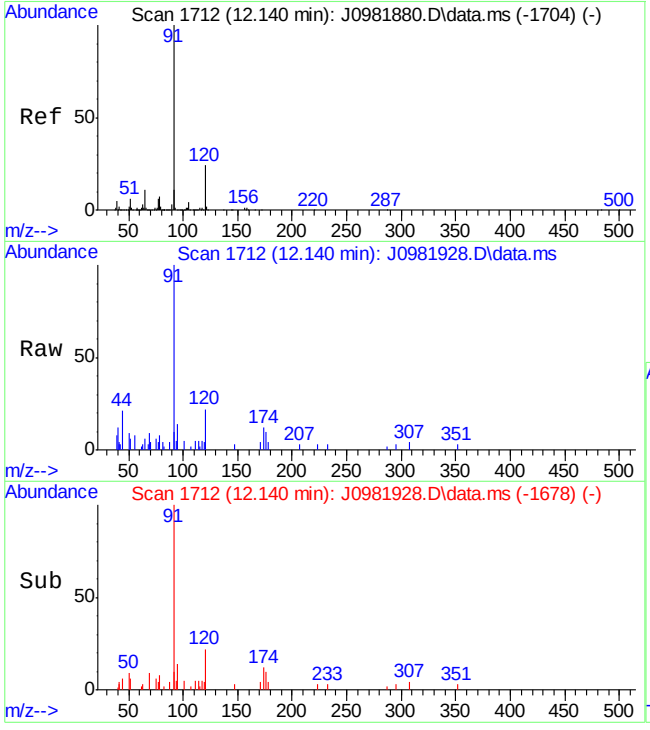


#77
Isopropylbenzene
Concen: 2.39 ug/L
RT: 11.723 min Scan# 1641
Delta R.T. 0.000 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion:105 Resp: 58816

Ion	Ratio	Lower	Upper
105	100		
120	21.8	0.0	56.6

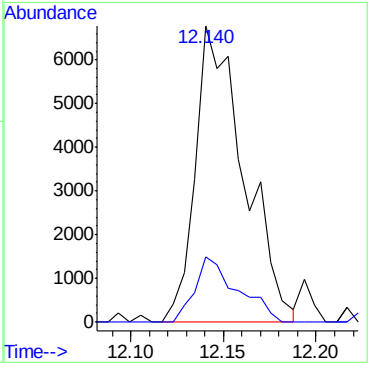


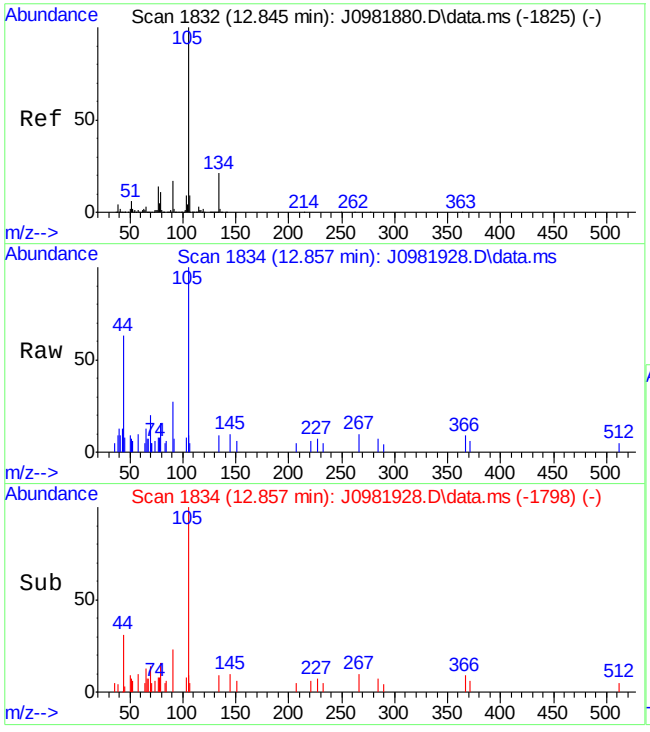


#81
n-Propylbenzene
Concen: 0.45 ug/L
RT: 12.140 min Scan# 1712
Delta R.T. 0.000 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion: 91 Resp: 12354

Ion	Ratio	Lower	Upper
91	100		
120	21.9	0.0	54.3

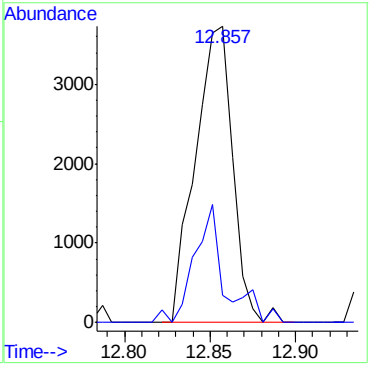


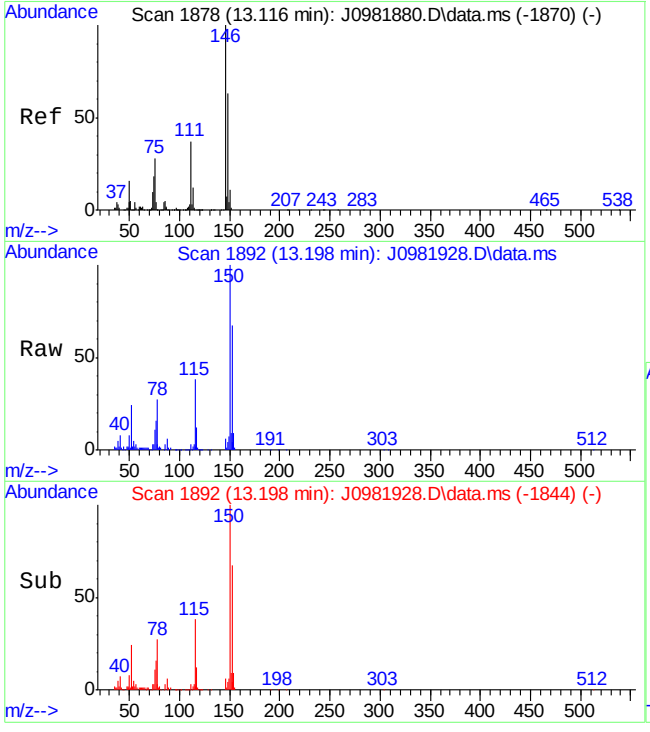


#94
sec-Butylbenzene
Concen: 0.23 ug/L
RT: 12.857 min Scan# 1834
Delta R.T. 0.012 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion:105 Resp: 5679

Ion	Ratio	Lower	Upper
105	100		
134	9.3	0.0	51.3

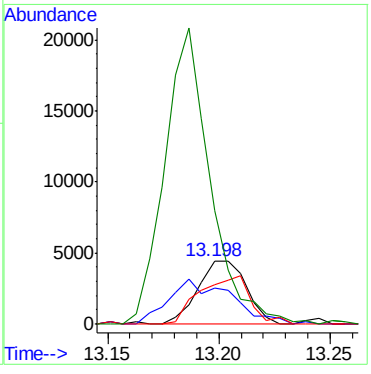


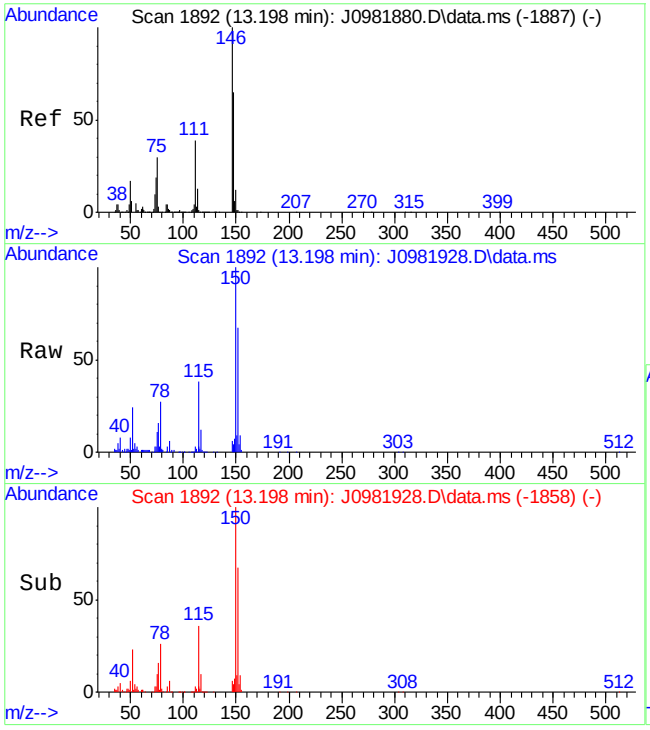


#96
1,3-Dichlorobenzene
Concen: 0.58 ug/L
RT: 13.198 min Scan# 1892
Delta R.T. 0.082 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion:146 Resp: 6762

Ion	Ratio	Lower	Upper
146	100		
111	56.3	7.0	67.0
148	61.5	33.5	93.5
75	174.5	0.0	58.1#

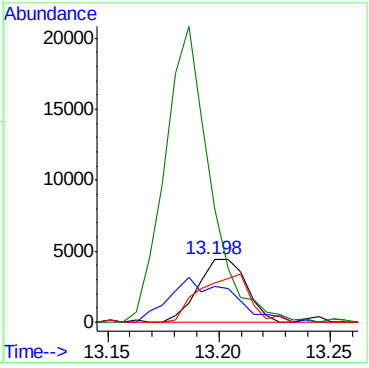


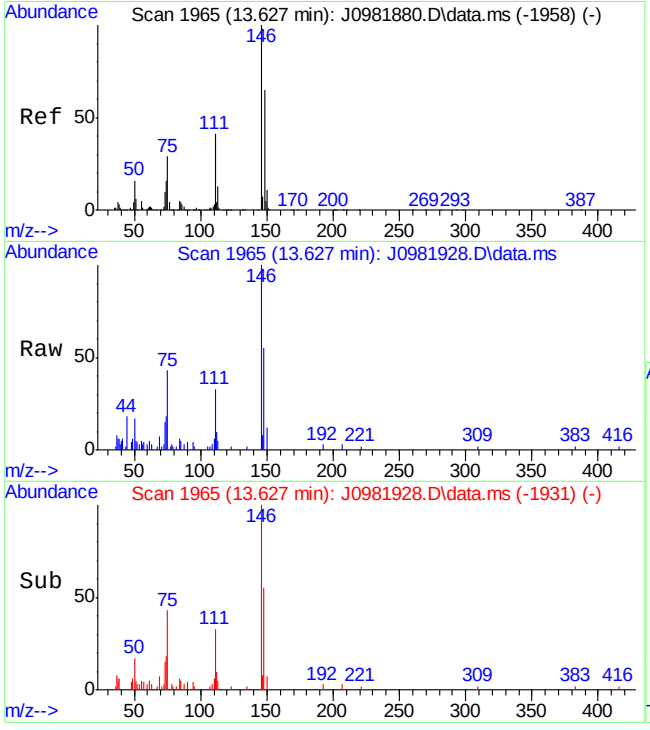


#97
1,4-Dichlorobenzene
Concen: 0.56 ug/L
RT: 13.198 min Scan# 1892
Delta R.T. 0.000 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion:146 Resp: 6762

Ion	Ratio	Lower	Upper
146	100		
111	56.3	9.3	69.3
148	61.5	34.6	94.6
75	174.5	1.8	61.8#

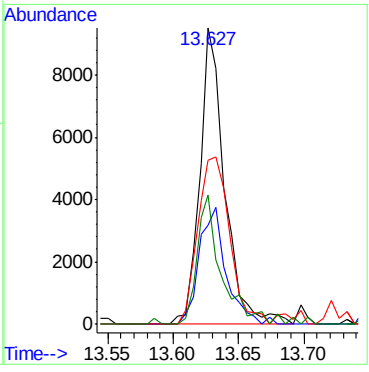


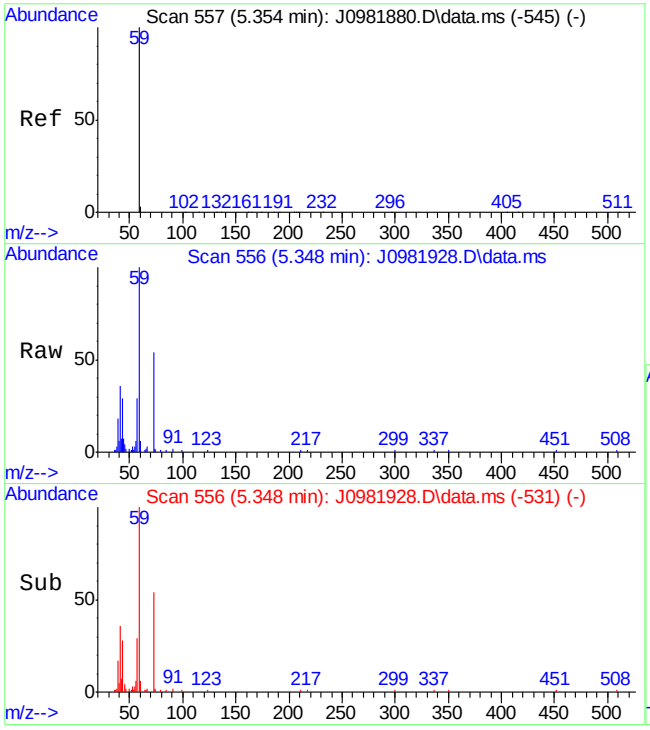


#100
1,2-Dichlorobenzene
Concen: 1.08 ug/L
RT: 13.627 min Scan# 1965
Delta R.T. -0.000 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion:146 Resp: 12671

Ion	Ratio	Lower	Upper
146	100		
111	33.4	10.9	70.9
148	55.3	35.1	95.1
75	43.5	0.0	58.5

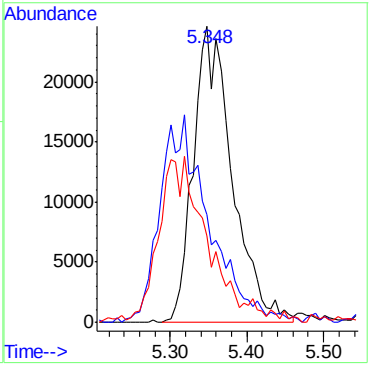


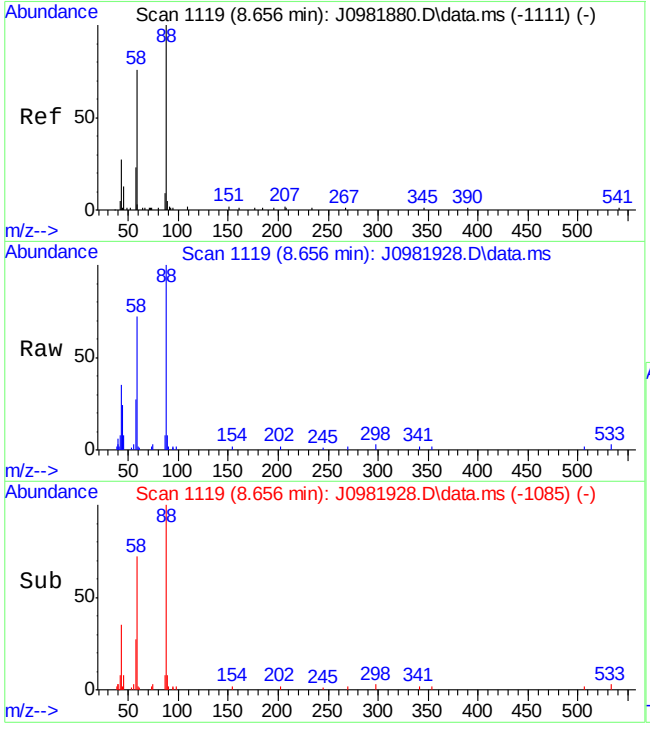


#109
Tert Butyl Alcohol
Concen: 134.39 ug/L
RT: 5.348 min Scan# 556
Delta R.T. -0.006 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion: 59 Resp: 85137

Ion	Ratio	Lower	Upper
59	100		
41	34.4	15.7	55.7
43	27.3	8.8	48.8

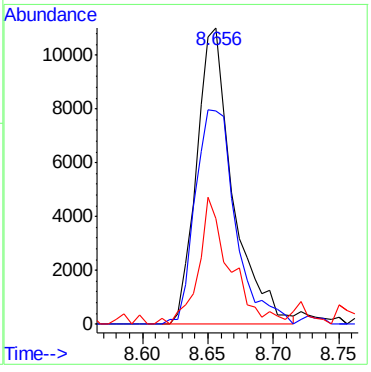




#112
1,4-Dioxane
Concen: 401.59 ug/L
RT: 8.656 min Scan# 1119
Delta R.T. 0.000 min
Lab File: J0981928.D
Acq: 3 Jan 2017 3:38 pm

Tgt Ion: 88 Resp: 21296

Ion	Ratio	Lower	Upper
88	100		
58	71.8	46.1	106.1
43	33.4	0.0	56.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981929.D
Acq On : 3 Jan 2017 4:01 pm
Operator : darshnap
Sample : fa39907-8 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 04 08:50:50 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	545133	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	408617	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	202977	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	74355	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	129703	50.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.80%			
46) 1,2-Dichloroethane-d4	7.458	65	202059	58.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 116.76%			
57) Toluene-d8	9.279	98	523391	48.23	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.46%			
79) 4-Bromofluorobenzene	12.035	95	217970	53.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.68%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.313	73	196074	12.78	ug/L	90
32) Cyclohexane	6.706	56	43041	4.15	ug/L	87
71) Chlorobenzene	10.854	112	15287	1.10	ug/L #	70
77) Isopropylbenzene	11.723	105	65676	2.71	ug/L	92
81) n-Propylbenzene	12.146	91	13128	0.49	ug/L	99
94) sec-Butylbenzene	12.846	105	6105	0.25	ug/L	99
97) 1,4-Dichlorobenzene	13.198	146	6781	0.57	ug/L #	38
100) 1,2-Dichlorobenzene	13.633	146	12000	1.04	ug/L	90
109) Tert Butyl Alcohol	5.366	59	85681	137.99	ug/L	83
112) 1,4-Dioxane	8.656	88	24750	476.09	ug/L	91

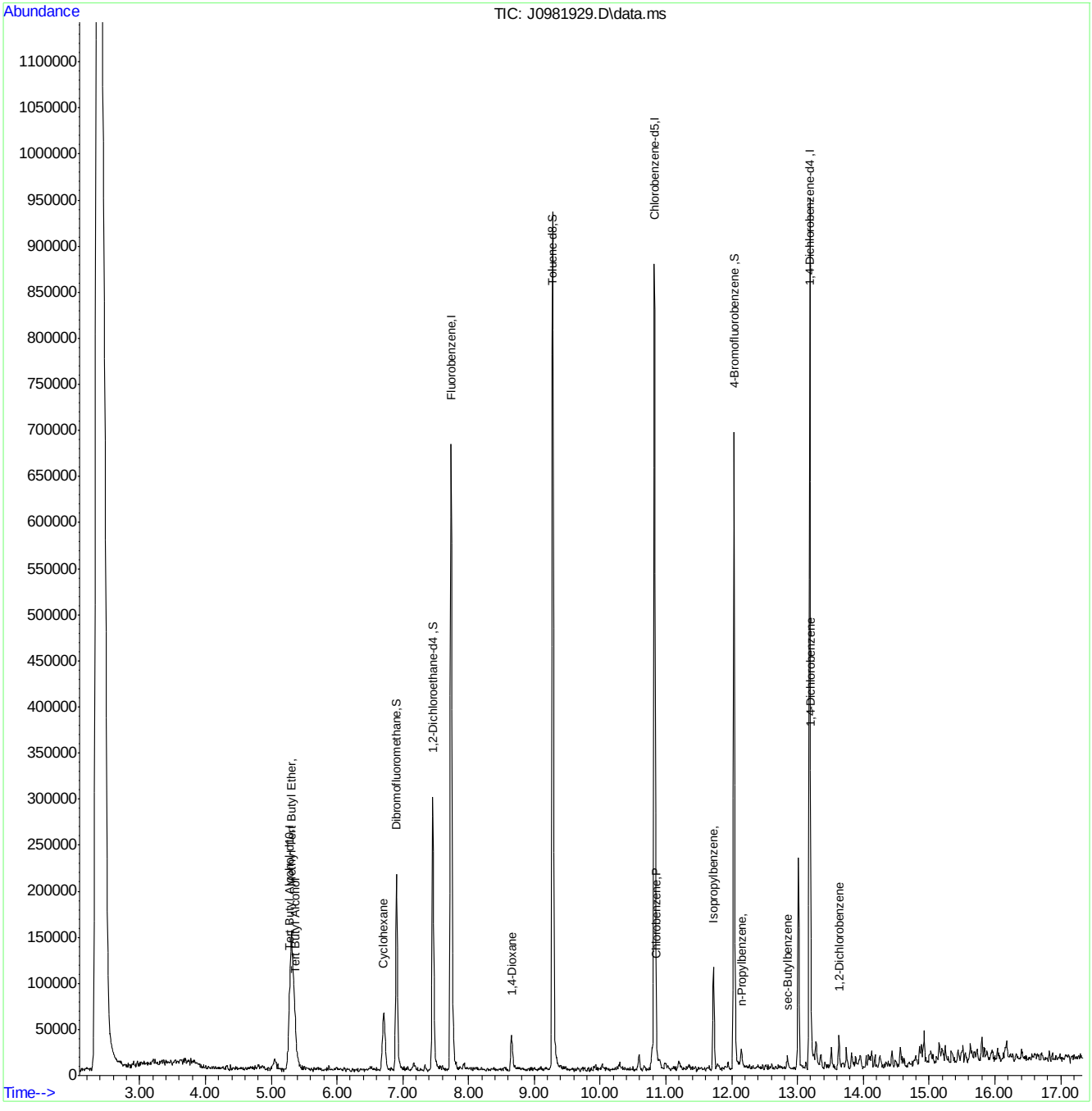
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39907

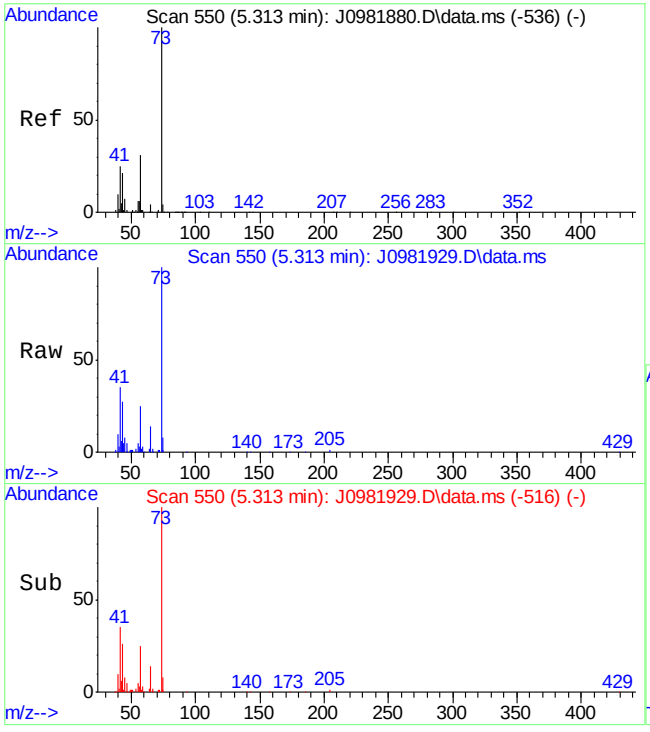
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981929.D
Acq On : 3 Jan 2017 4:01 pm
Operator : darshnap
Sample : fa39907-8 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 04 08:50:50 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



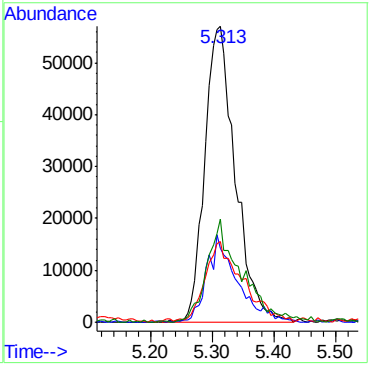
MSJ123016.M Wed Jan 04 09:55:20 2017 Page: 2

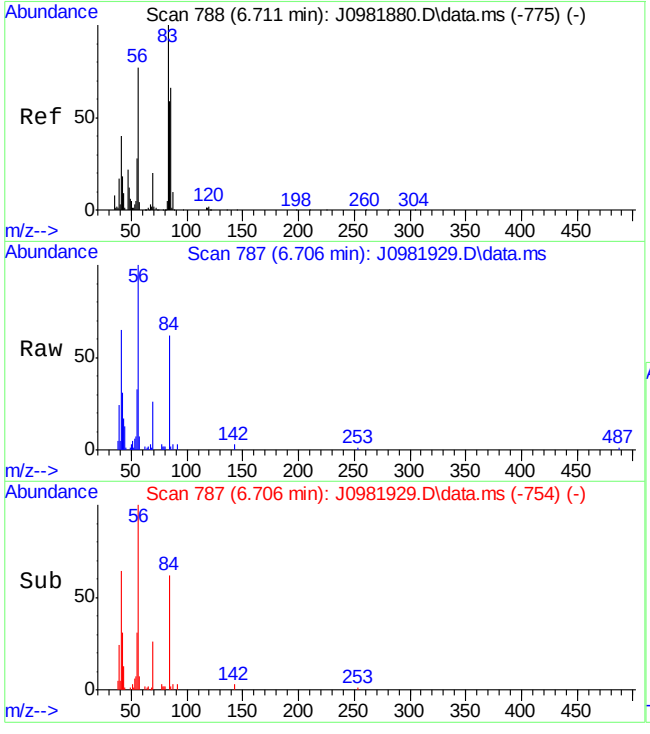


#21
Methyl Tert Butyl Ether
Concen: 12.78 ug/L
RT: 5.313 min Scan# 550
Delta R.T. 0.000 min
Lab File: J0981929.D
Acq: 3 Jan 2017 4:01 pm

Tgt Ion: 73 Resp: 196074

Ion	Ratio	Lower	Upper
73	100		
57	24.8	1.8	61.8
43	27.0	0.0	58.0
41	34.5	0.0	56.1

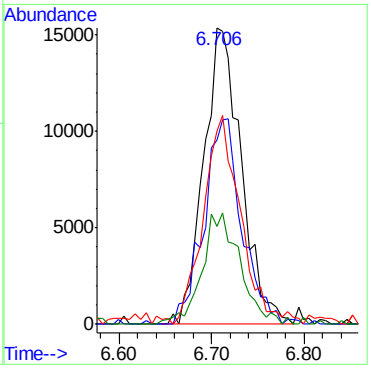


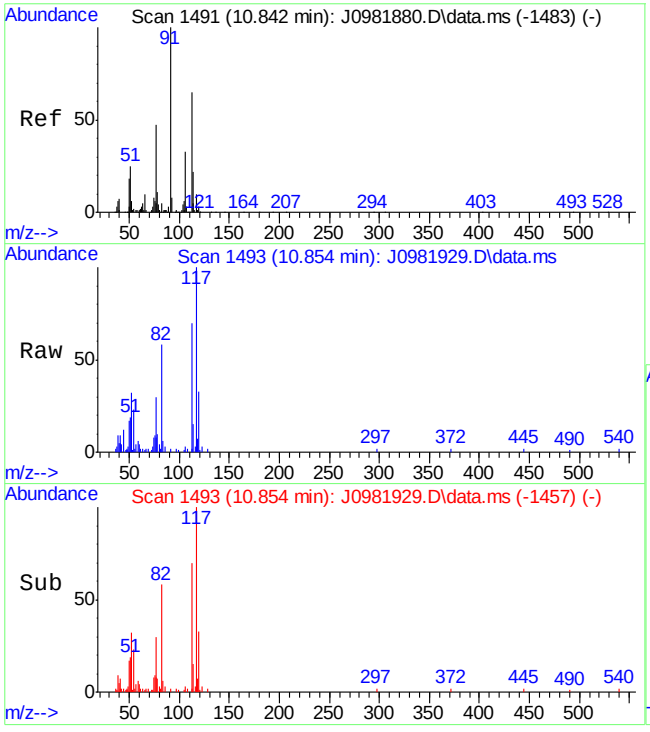


#32
Cyclohexane
Concen: 4.15 ug/L
RT: 6.706 min Scan# 787
Delta R.T. -0.005 min
Lab File: J0981929.D
Acq: 3 Jan 2017 4:01 pm

Tgt Ion: 56 Resp: 43041

Ion	Ratio	Lower	Upper
56	100		
84	62.1	57.3	97.3
41	63.5	35.4	75.4
55	33.0	17.2	57.2

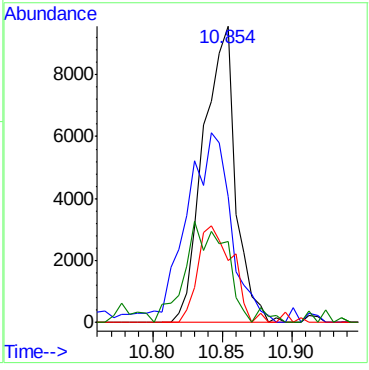


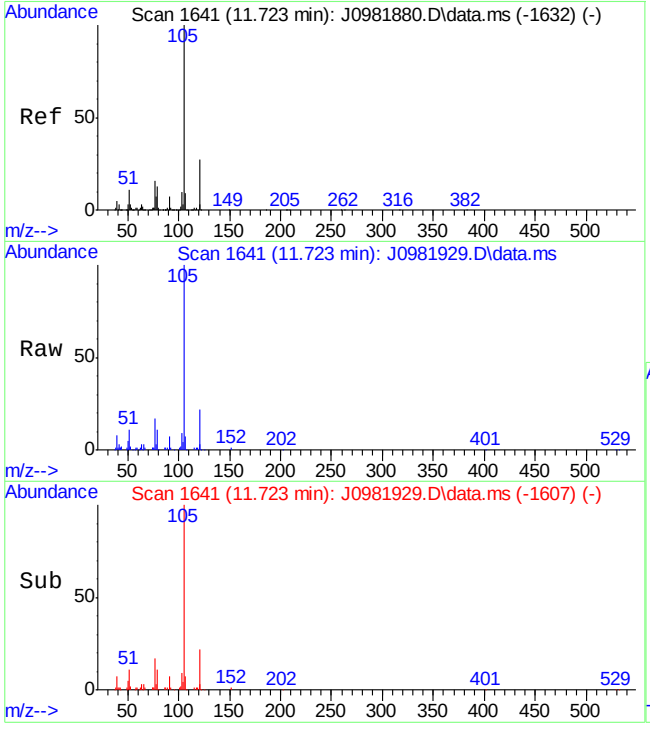


#71
Chlorobenzene
Concen: 1.10 ug/L
RT: 10.854 min Scan# 1493
Delta R.T. 0.012 min
Lab File: J0981929.D
Acq: 3 Jan 2017 4:01 pm

Tgt Ion:112 Resp: 15287

Ion	Ratio	Lower	Upper
112	100		
77	39.1	42.6	102.6#
114	21.0	3.6	63.6
51	27.3	7.9	67.9

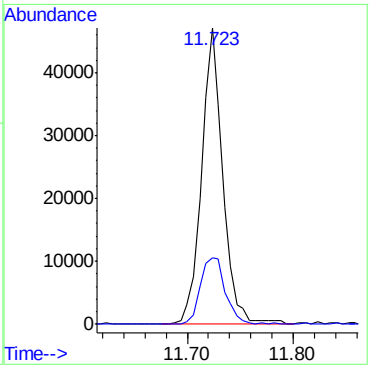


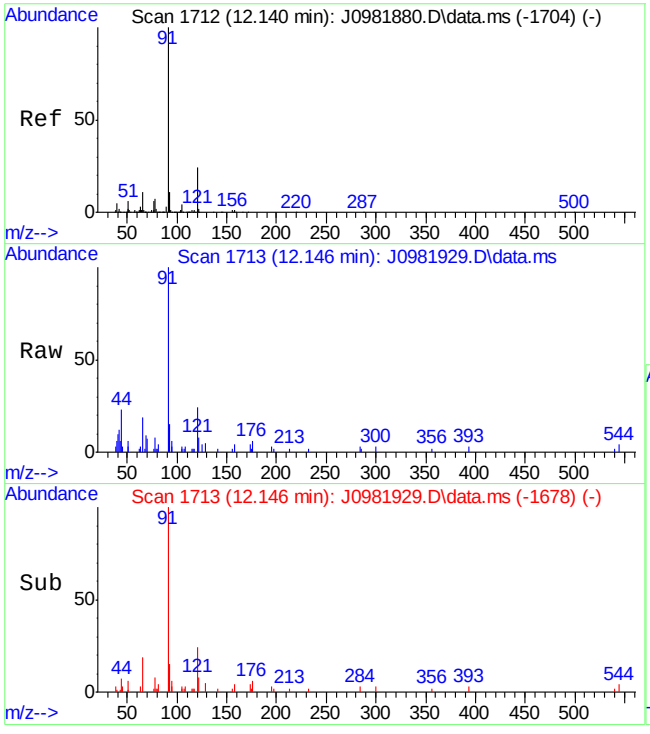


#77
Isopropylbenzene
Concen: 2.71 ug/L
RT: 11.723 min Scan# 1641
Delta R.T. 0.000 min
Lab File: J0981929.D
Acq: 3 Jan 2017 4:01 pm

Tgt Ion:105 Resp: 65676

Ion	Ratio	Lower	Upper
105	100		
120	22.5	0.0	56.6

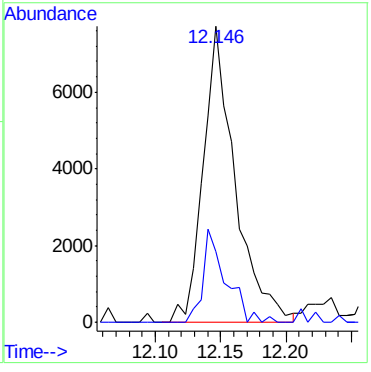


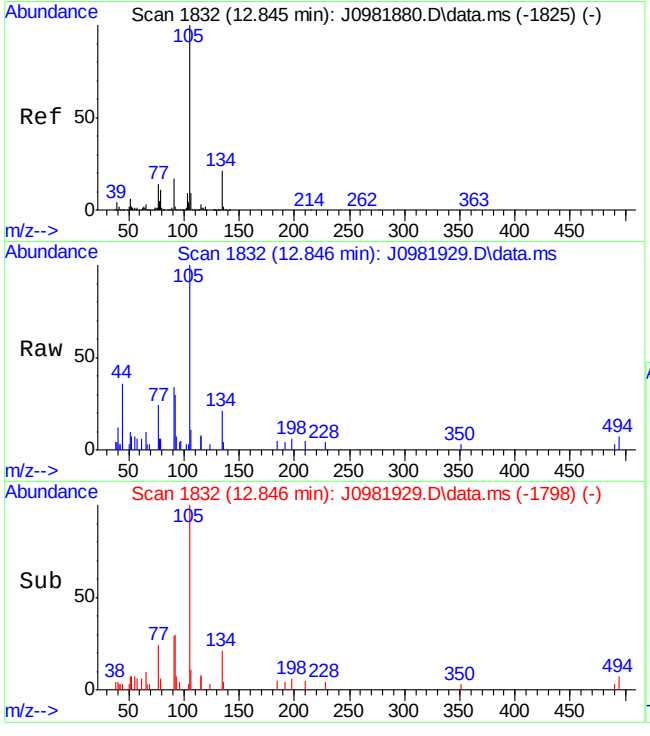


#81
n-Propylbenzene
Concen: 0.49 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.006 min
Lab File: J0981929.D
Acq: 3 Jan 2017 4:01 pm

Tgt Ion: 91 Resp: 13128

Ion	Ratio	Lower	Upper
91	100		
120	24.0	0.0	54.3

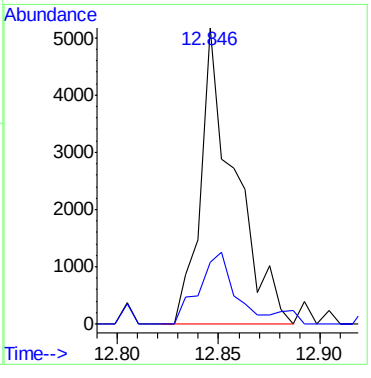


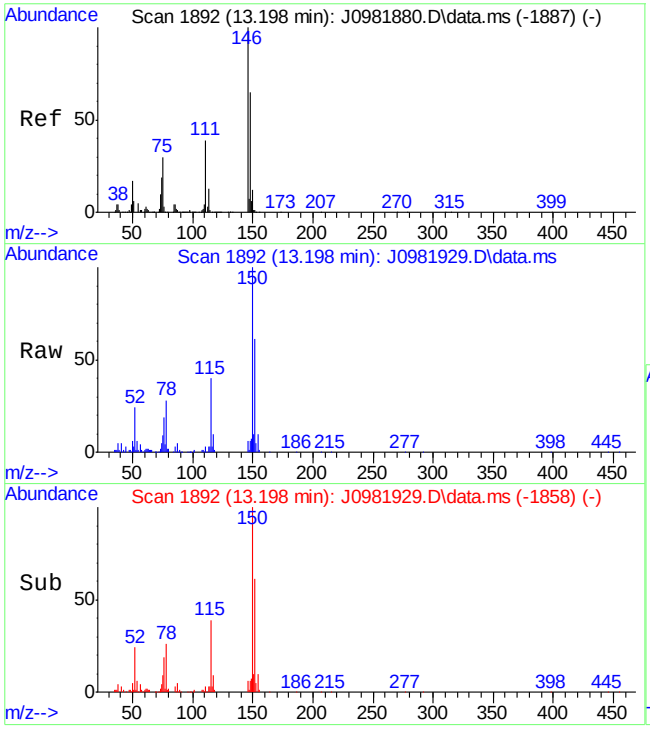


#94
sec-Butylbenzene
Concen: 0.25 ug/L
RT: 12.846 min Scan# 1832
Delta R.T. 0.001 min
Lab File: J0981929.D
Acq: 3 Jan 2017 4:01 pm

Tgt Ion:105 Resp: 6105

Ion	Ratio	Lower	Upper
105	100		
134	20.8	0.0	51.3

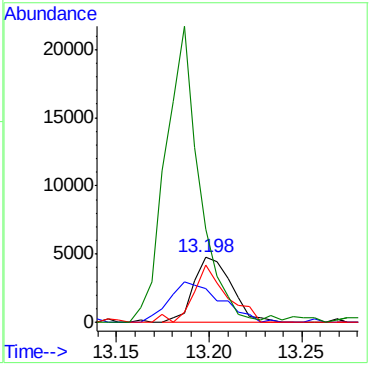


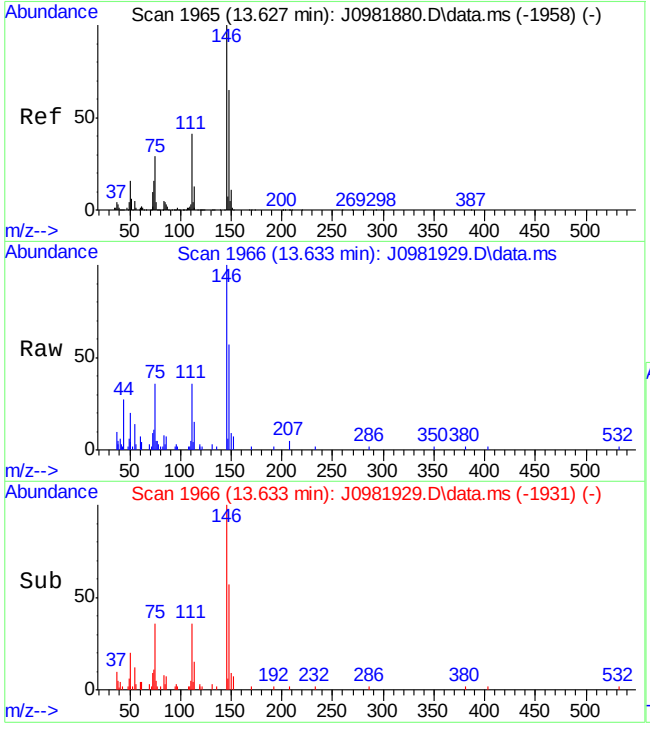


#97
1,4-Dichlorobenzene
Concen: 0.57 ug/L
RT: 13.198 min Scan# 1892
Delta R.T. 0.000 min
Lab File: J0981929.D
Acq: 3 Jan 2017 4:01 pm

Tgt Ion:146 Resp: 6781

Ion	Ratio	Lower	Upper
146	100		
111	51.6	9.3	69.3
148	87.1	34.6	94.6
75	132.4	1.8	61.8#

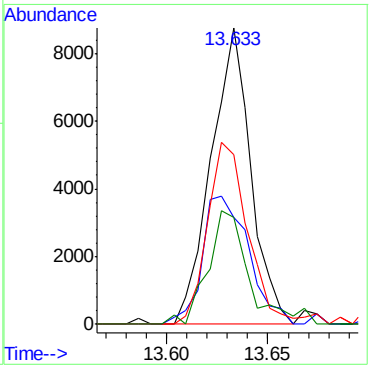


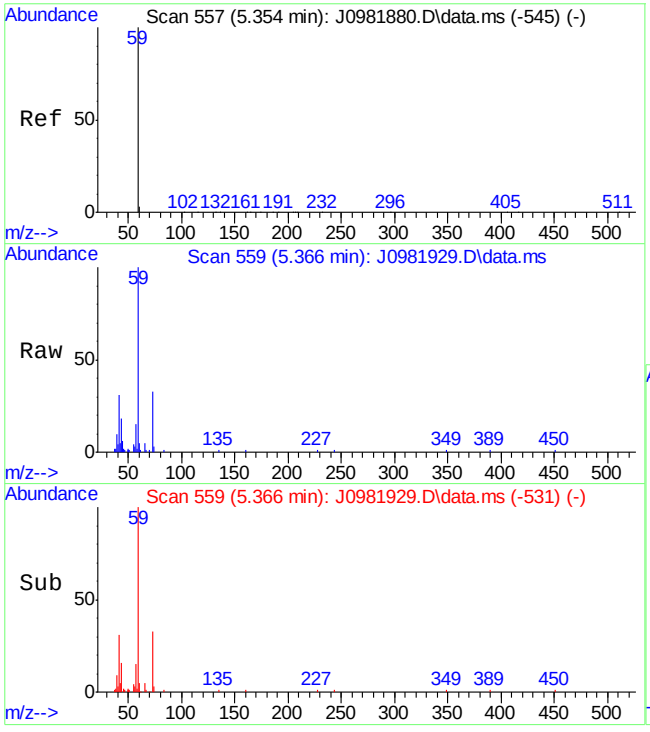


#100
1,2-Dichlorobenzene
Concen: 1.04 ug/L
RT: 13.633 min Scan# 1966
Delta R.T. 0.006 min
Lab File: J0981929.D
Acq: 3 Jan 2017 4:01 pm

Tgt Ion:146 Resp: 12000

Ion	Ratio	Lower	Upper
146	100		
111	35.9	10.9	70.9
148	57.4	35.1	95.1
75	36.0	0.0	58.5

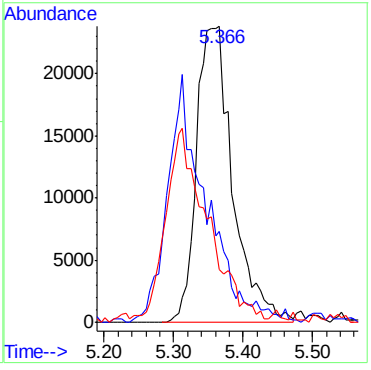


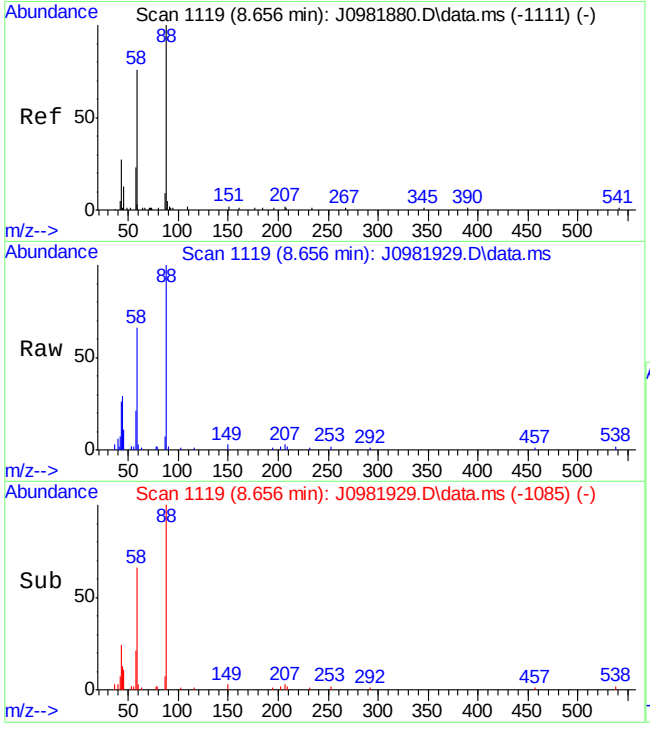


#109
Tert Butyl Alcohol
Concen: 137.99 ug/L
RT: 5.366 min Scan# 559
Delta R.T. 0.012 min
Lab File: J0981929.D
Acq: 3 Jan 2017 4:01 pm

Tgt Ion: 59 Resp: 85681

Ion	Ratio	Lower	Upper
59	100		
41	30.2	15.7	55.7
43	14.3	8.8	48.8

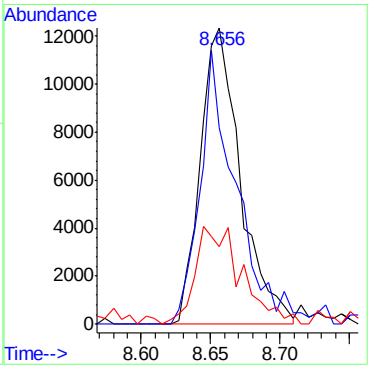




#112
1,4-Dioxane
Concen: 476.09 ug/L
RT: 8.656 min Scan# 1119
Delta R.T. 0.000 min
Lab File: J0981929.D
Acq: 3 Jan 2017 4:01 pm

Tgt Ion: 88 Resp: 24750

Ion	Ratio	Lower	Upper
88	100		
58	66.1	46.1	106.1
43	26.4	0.0	56.5



7.1.8

7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981930.D
Acq On : 3 Jan 2017 4:25 pm
Operator : darshnap
Sample : fa39907-9 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 04 08:52:18 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

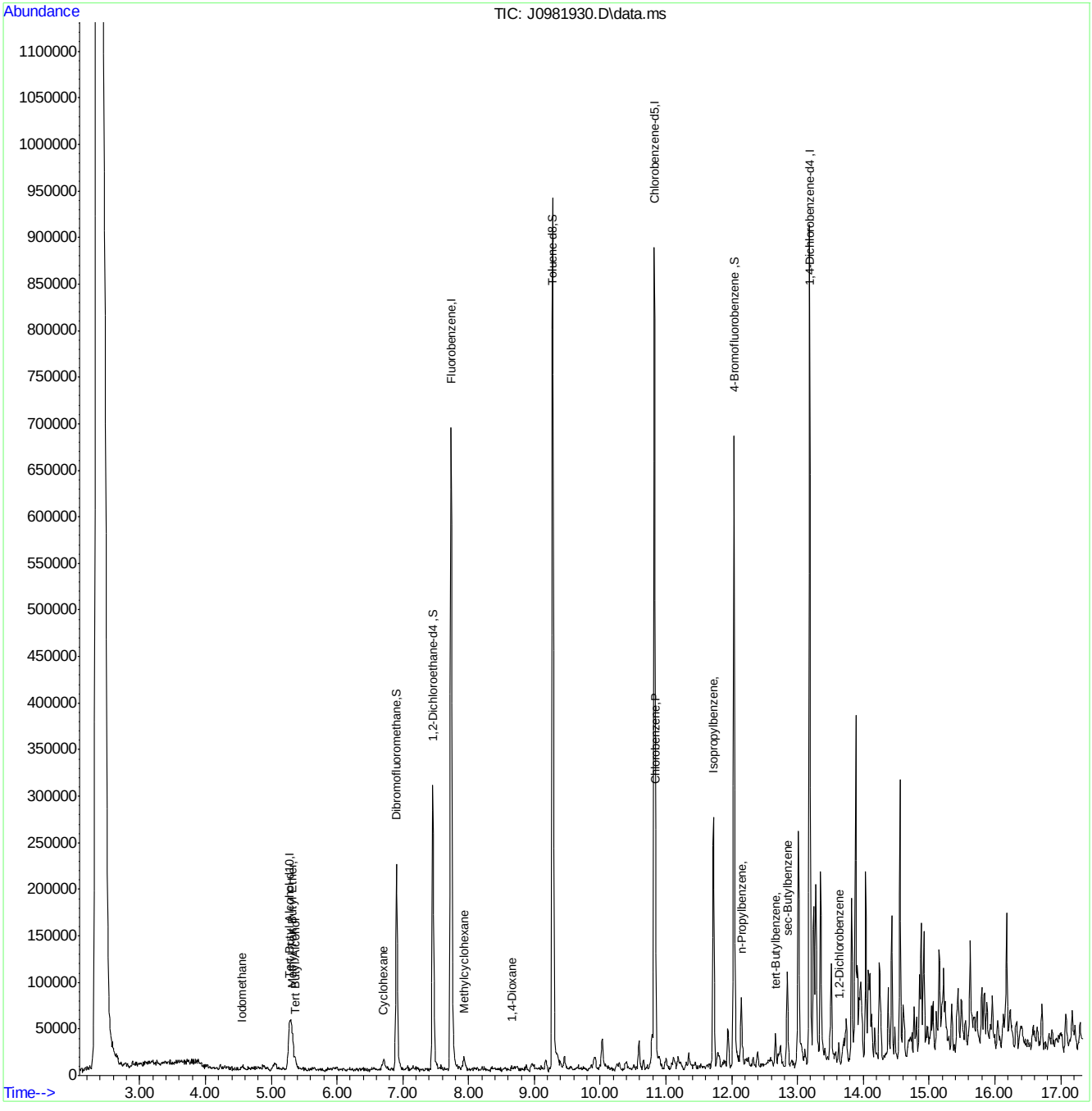
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	553814	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	401555	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	197686	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	78646	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	130998	50.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.22%			
46) 1,2-Dichloroethane-d4	7.458	65	200938	57.15	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 114.30%			
57) Toluene-d8	9.279	98	526960	49.41	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.82%			
79) 4-Bromofluorobenzene	12.035	95	215848	54.74	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.48%			
Target Compounds						Qvalue
14) Iodomethane	4.555	142	3128	0.36	ug/L	78
21) Methyl Tert Butyl Ether	5.325	73	42506	2.73	ug/L	91
32) Cyclohexane	6.711	56	6353	0.60	ug/L	81
49) Methylcyclohexane	7.939	83	4667	0.50	ug/L #	67
71) Chlorobenzene	10.842	112	5121	0.37	ug/L	83
77) Isopropylbenzene	11.723	105	143543	6.02	ug/L	99
81) n-Propylbenzene	12.146	91	41859	1.60	ug/L	86
91) tert-Butylbenzene	12.669	91	11382	1.00	ug/L	92
94) sec-Butylbenzene	12.851	105	38621	1.64	ug/L	75
100) 1,2-Dichlorobenzene	13.627	146	5145	0.46	ug/L	78
109) Tert Butyl Alcohol	5.366	59	10511	15.86	ug/L	83
112) 1,4-Dioxane	8.656	88	2311	42.03	ug/L	97

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

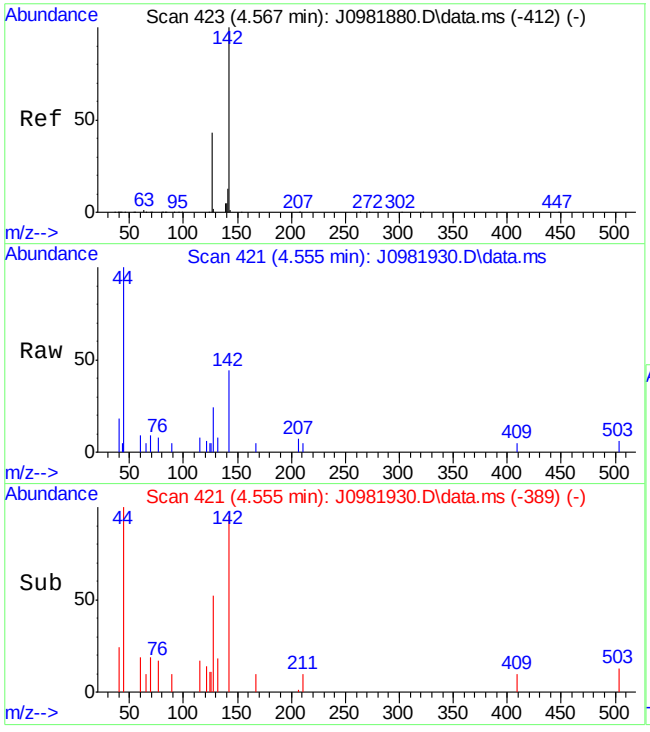
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981930.D
Acq On : 3 Jan 2017 4:25 pm
Operator : darshnap
Sample : fa39907-9 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 04 08:52:18 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



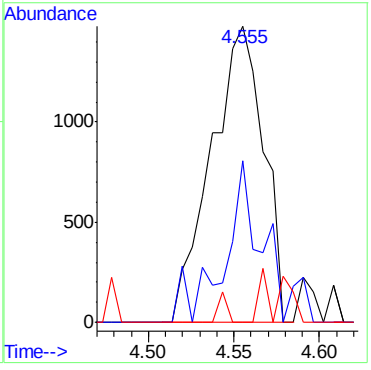
MSJ123016.M Wed Jan 04 09:55:23 2017 Page: 2

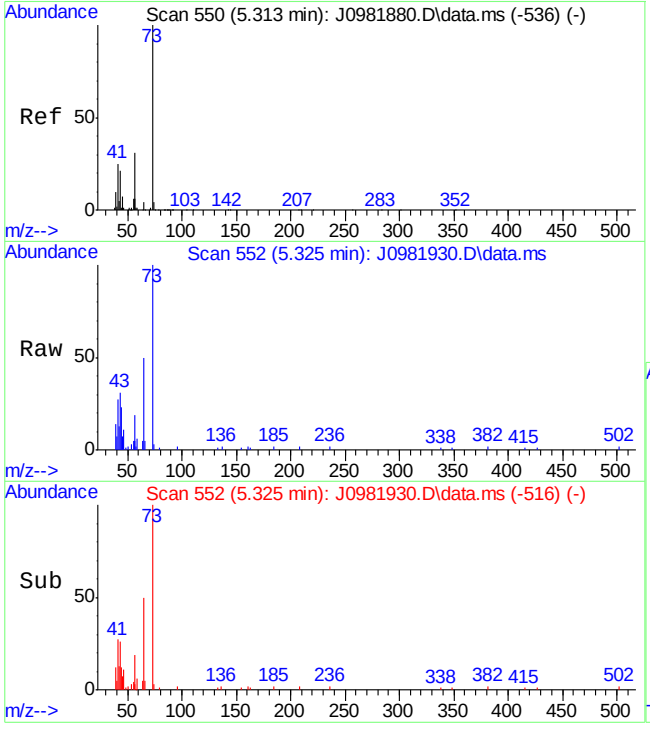


#14
Iodomethane
Concen: 0.36 ug/L
RT: 4.555 min Scan# 421
Delta R.T. -0.012 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion:142 Resp: 3128

Ion	Ratio	Lower	Upper
142	100		
127	54.4	22.6	62.6
141	0.0	0.0	32.8

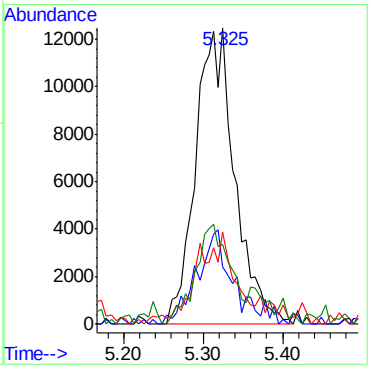


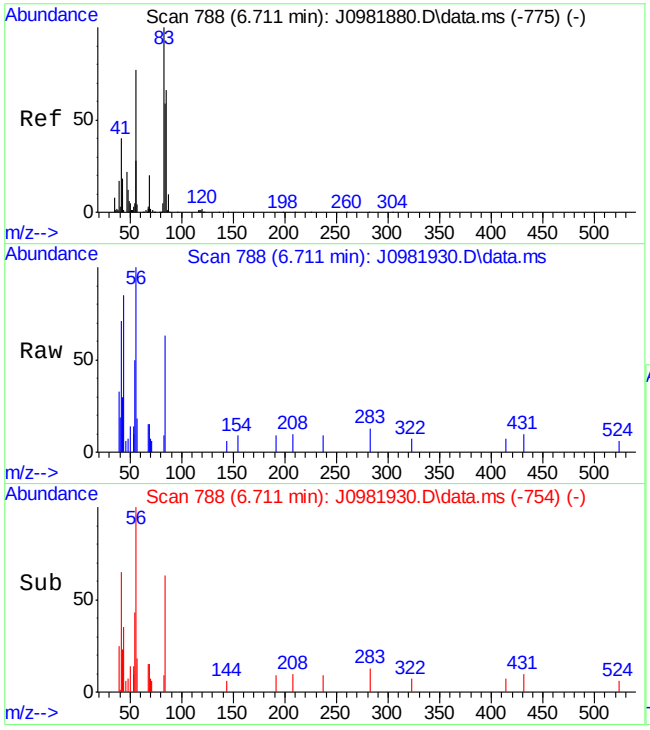


#21
Methyl Tert Butyl Ether
Concen: 2.73 ug/L
RT: 5.325 min Scan# 552
Delta R.T. 0.012 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion: 73 Resp: 42506

Ion	Ratio	Lower	Upper
73	100		
57	19.2	1.8	61.8
43	28.7	0.0	58.0
41	27.0	0.0	56.1

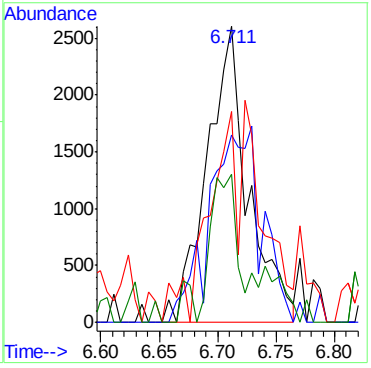


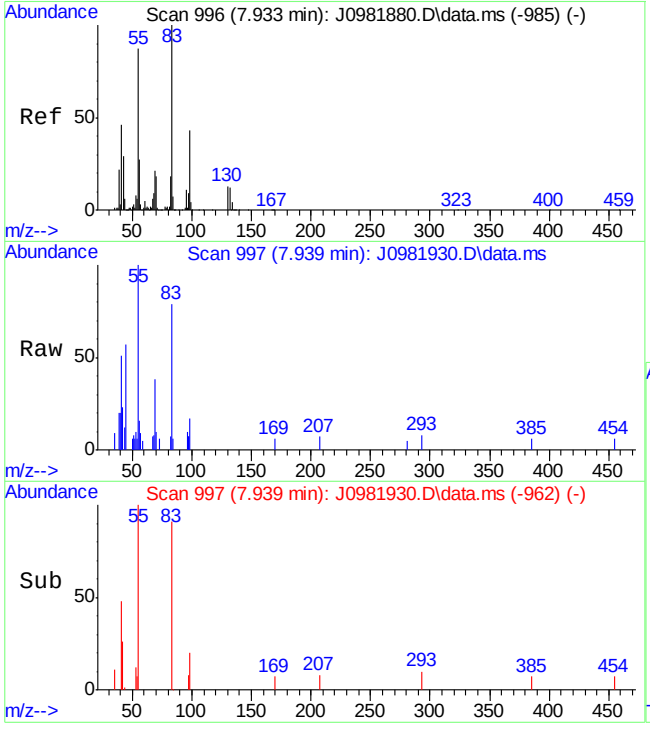


#32
Cyclohexane
Concen: 0.60 ug/L
RT: 6.711 min Scan# 788
Delta R.T. 0.000 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion: 56 Resp: 6353

Ion	Ratio	Lower	Upper
56	100		
84	63.1	57.3	97.3
41	71.1	35.4	75.4
55	50.1	17.2	57.2

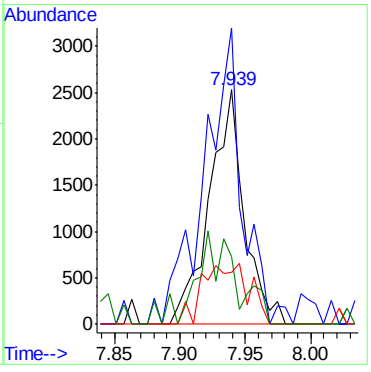


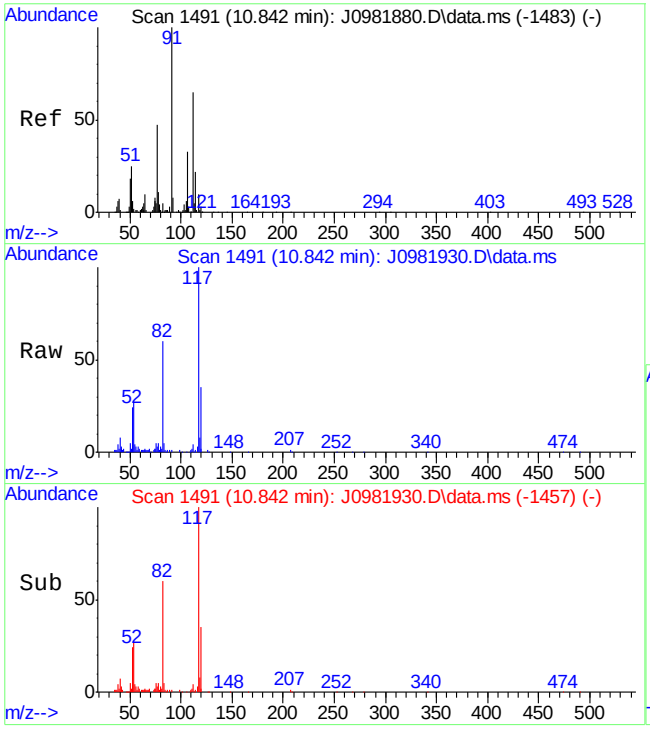


#49
Methylcyclohexane
Concen: 0.50 ug/L
RT: 7.939 min Scan# 997
Delta R.T. 0.006 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion: 83 Resp: 4667

Ion	Ratio	Lower	Upper
83	100		
55	126.4	66.5	106.5#
98	21.9	23.3	63.3#
42	28.7	8.5	48.5

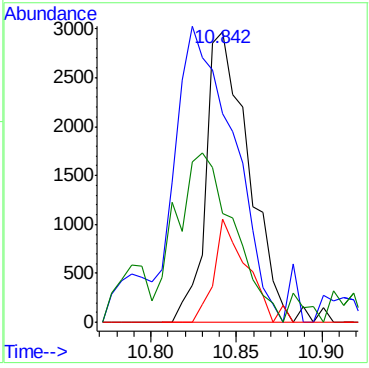


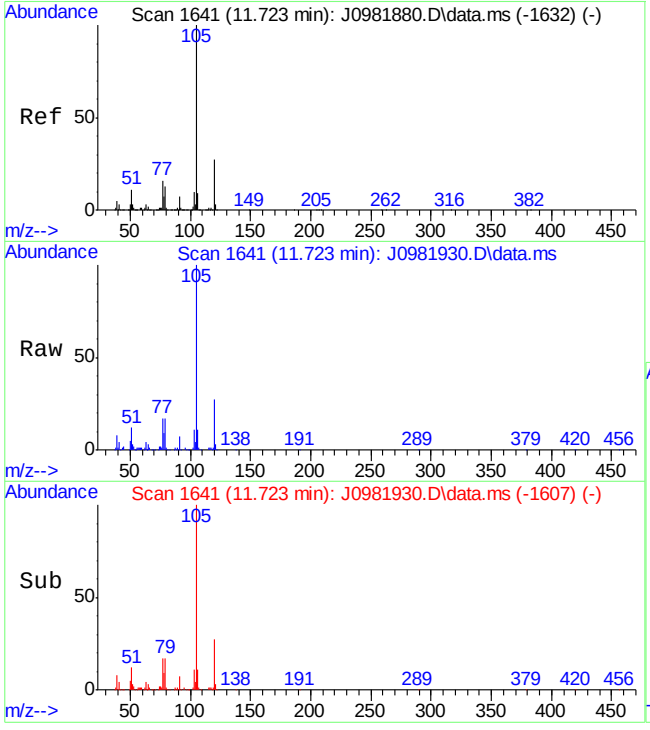


#71
Chlorobenzene
Concen: 0.37 ug/L
RT: 10.842 min Scan# 1491
Delta R.T. -0.000 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion:112 Resp: 5121

Ion	Ratio	Lower	Upper
112	100		
77	53.6	42.6	102.6
114	35.5	3.6	63.6
51	27.3	7.9	67.9

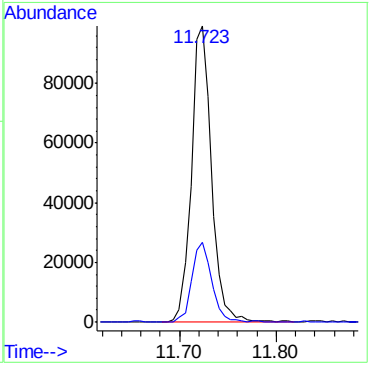


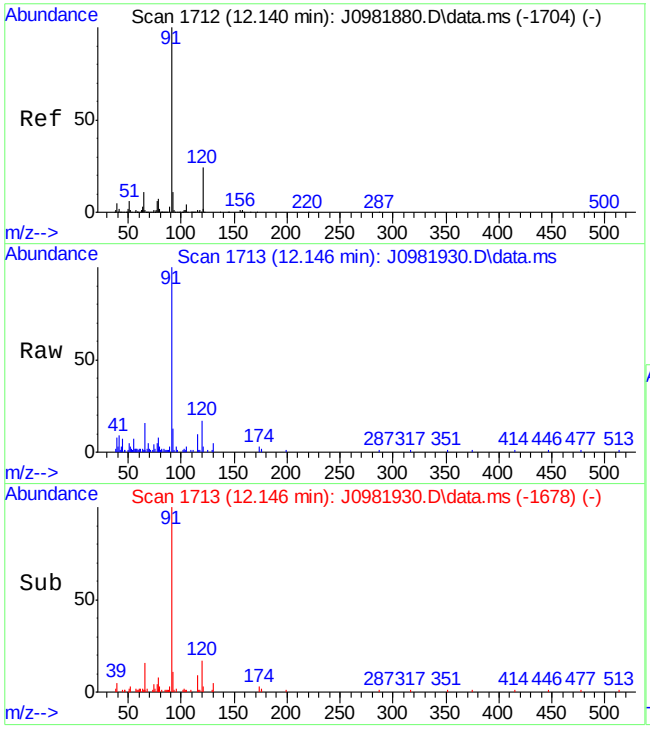


#77
Isopropylbenzene
Concen: 6.02 ug/L
RT: 11.723 min Scan# 1641
Delta R.T. 0.000 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion:105 Resp: 143543

Ion	Ratio	Lower	Upper
105	100		
120	27.0	0.0	56.6

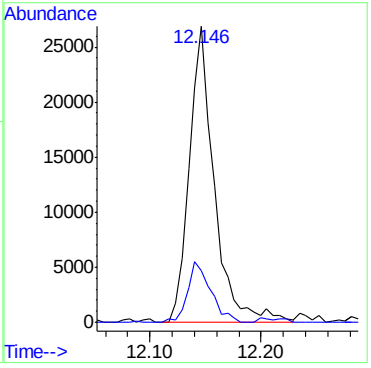


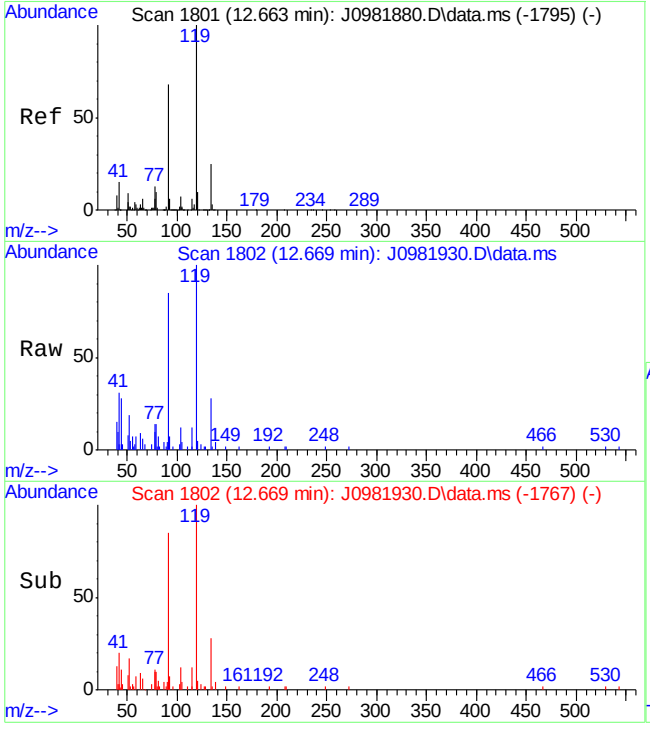


#81
n-Propylbenzene
Concen: 1.60 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.006 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion: 91 Resp: 41859

Ion	Ratio	Lower	Upper
91	100		
120	17.4	0.0	54.3

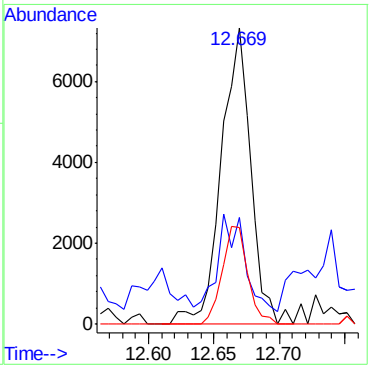




#91
tert-Butylbenzene
Concen: 1.00 ug/L
RT: 12.669 min Scan# 1802
Delta R.T. 0.006 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion: 91 Resp: 11382

Ion	Ratio	Lower	Upper
91	100		
41	18.1	0.0	52.7
134	32.5	6.7	66.7



7.1.9

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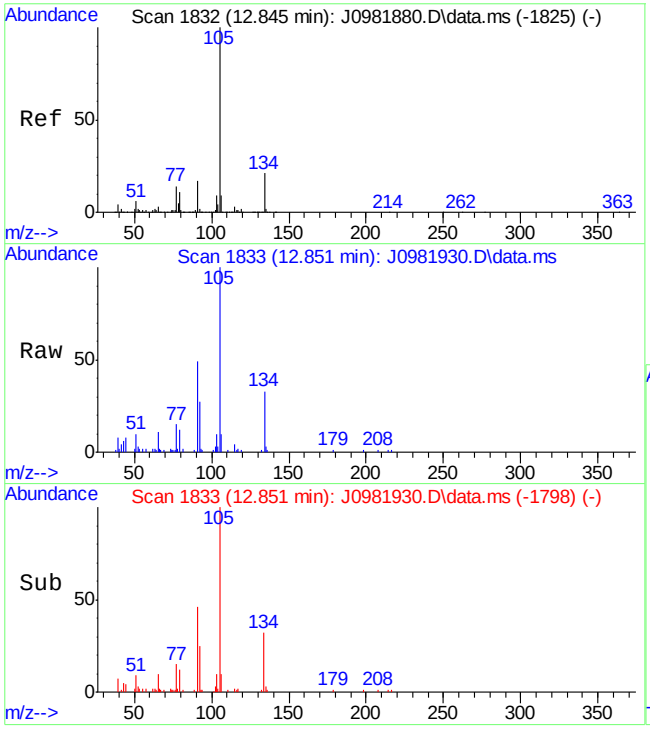
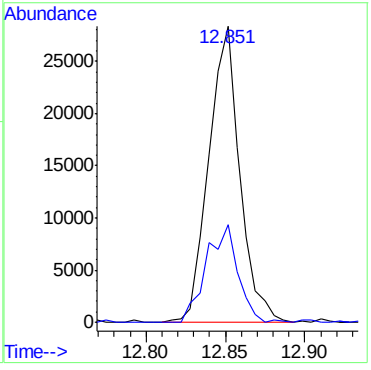
SGS ACCUTEST FA39907

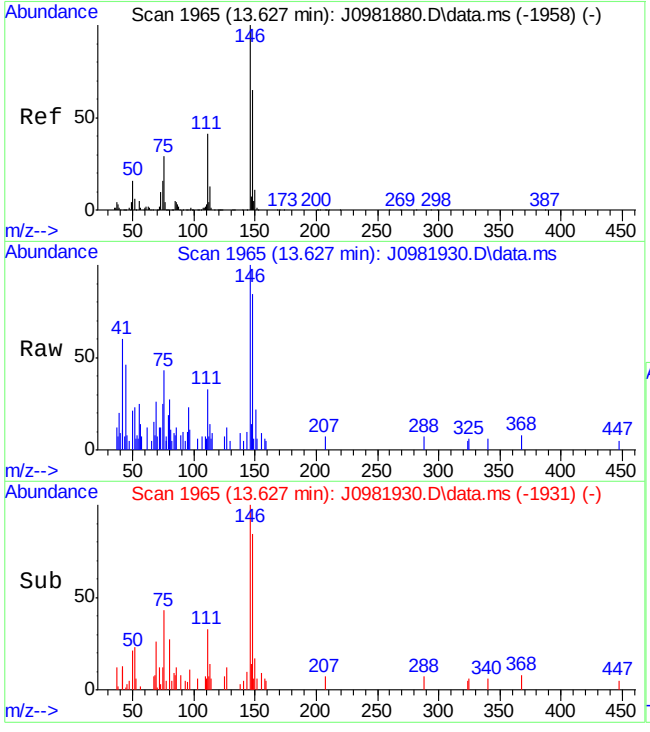


#94
sec-Butylbenzene
Concen: 1.64 ug/L
RT: 12.851 min Scan# 1833
Delta R.T. 0.006 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion:105 Resp: 38621

Ion	Ratio	Lower	Upper
105	100		
134	32.8	0.0	51.3

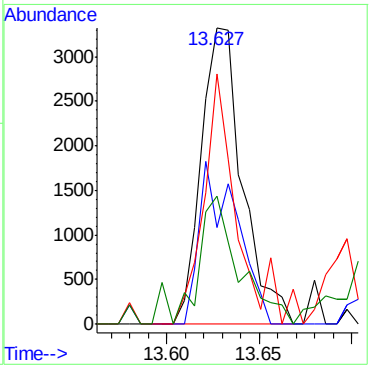


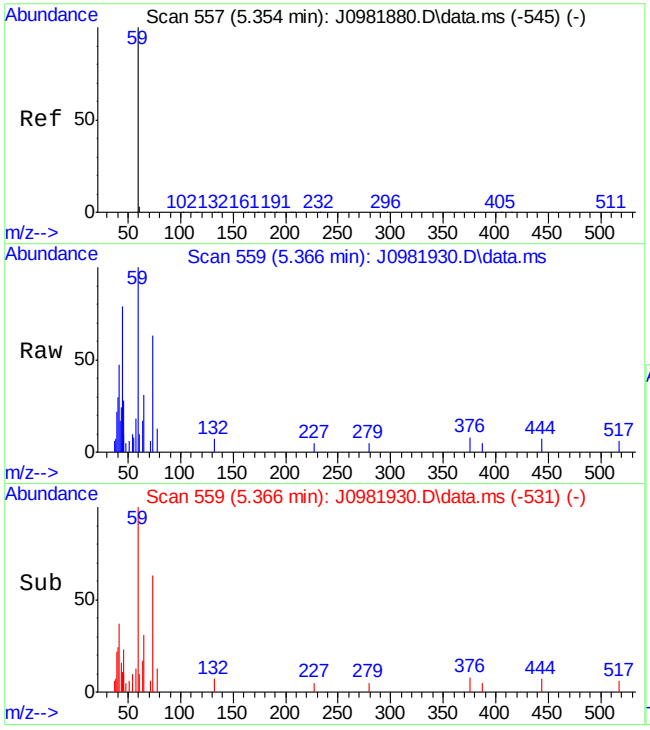


#100
1,2-Dichlorobenzene
Concen: 0.46 ug/L
RT: 13.627 min Scan# 1965
Delta R.T. -0.000 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion:146 Resp: 5145

Ion	Ratio	Lower	Upper
146	100		
111	32.5	10.9	70.9
148	84.3	35.1	95.1
75	43.1	0.0	58.5

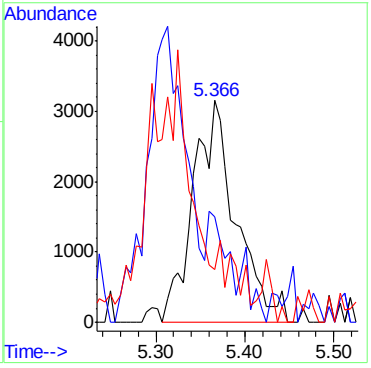


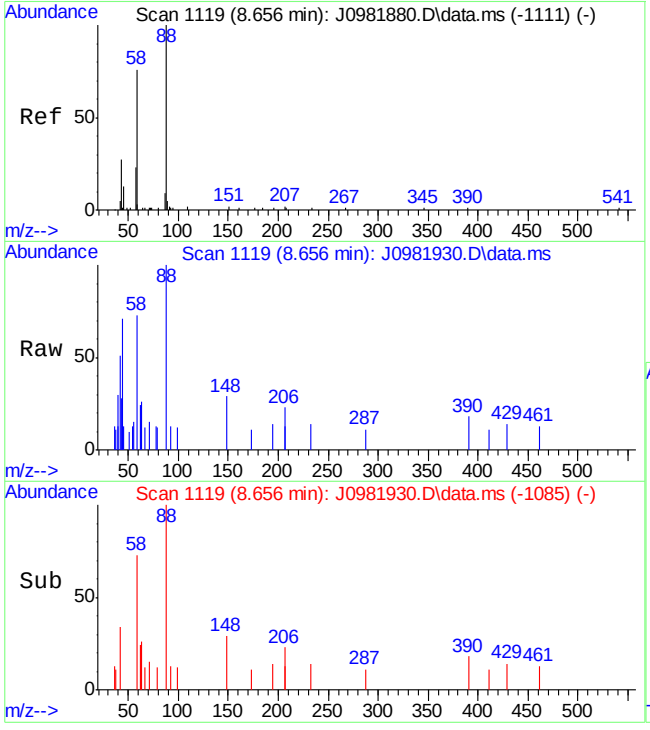


#109
Tert Butyl Alcohol
Concen: 15.86 ug/L
RT: 5.366 min Scan# 559
Delta R.T. 0.012 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion: 59 Resp: 10511

Ion	Ratio	Lower	Upper
59	100		
41	22.2	15.7	55.7
43	23.9	8.8	48.8

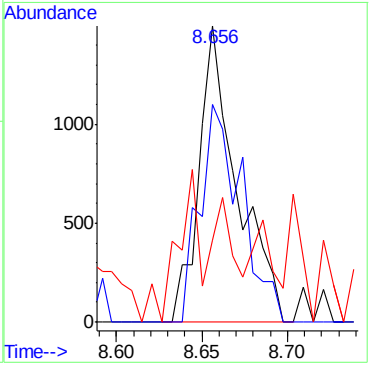




#112
1,4-Dioxane
Concen: 42.03 ug/L
RT: 8.656 min Scan# 1119
Delta R.T. 0.000 min
Lab File: J0981930.D
Acq: 3 Jan 2017 4:25 pm

Tgt Ion: 88 Resp: 2311

Ion	Ratio	Lower	Upper
88	100		
58	73.4	46.1	106.1
43	27.9	0.0	56.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981931.D
Acq On : 3 Jan 2017 4:48 pm
Operator : darshnap
Sample : fa39907-10 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 04 09:39:07 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

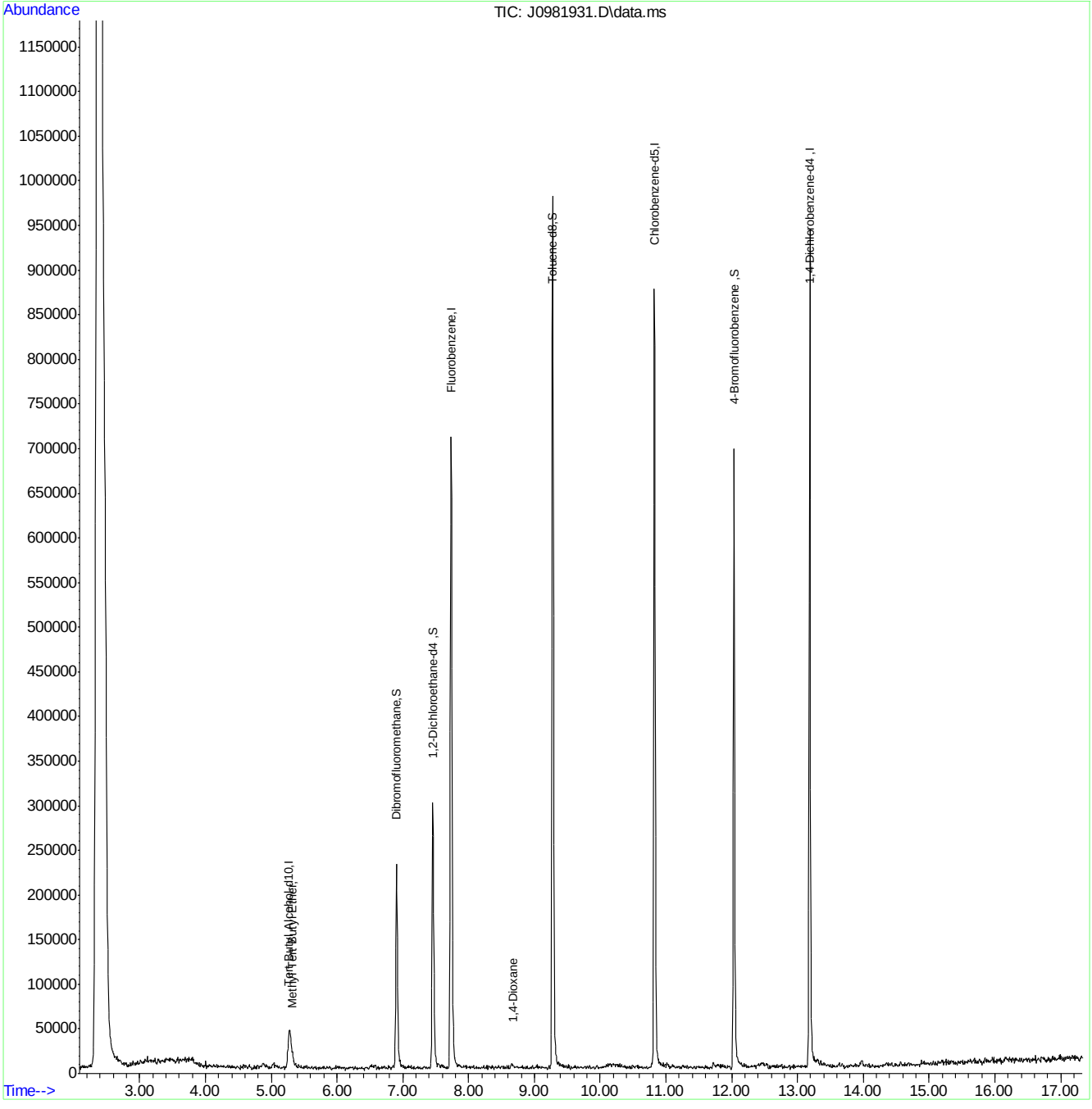
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	574778	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	416675	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	205336	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	81602	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	135239	49.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.68%			
46) 1,2-Dichloroethane-d4	7.458	65	200298	54.89	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.78%			
57) Toluene-d8	9.279	98	550429	49.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.48%			
79) 4-Bromofluorobenzene	12.035	95	218190	53.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.54%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.319	73	9006	0.56	ug/L	62
112) 1,4-Dioxane	8.668	88	3030	53.11	ug/L #	53

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

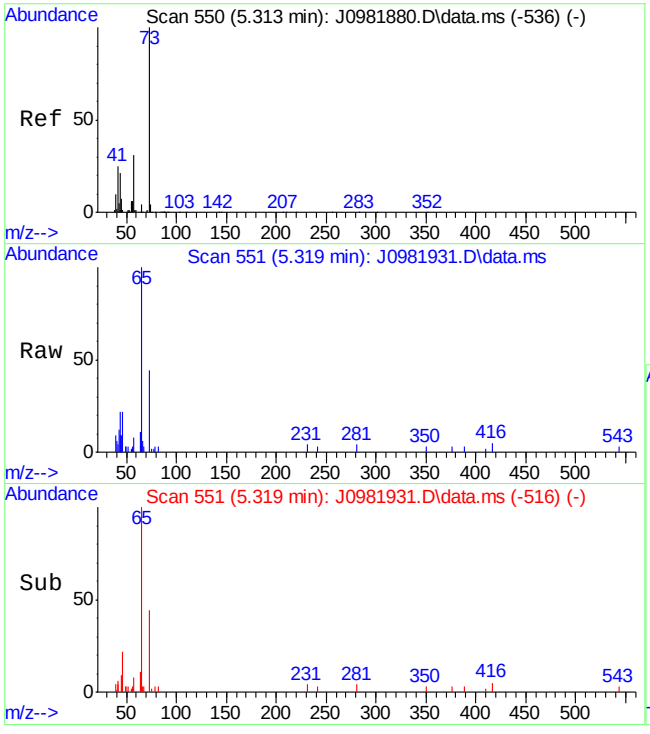
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981931.D
Acq On : 3 Jan 2017 4:48 pm
Operator : darshnap
Sample : fa39907-10 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 04 09:39:07 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



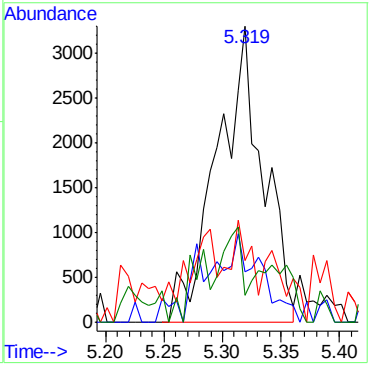
MSJ123016.M Wed Jan 04 09:55:26 2017 Page: 2

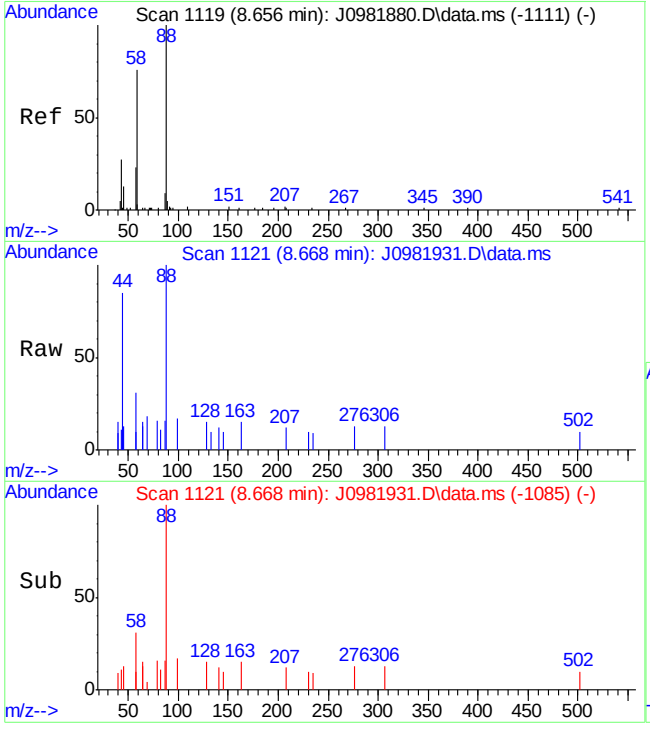


#21
Methyl Tert Butyl Ether
Concen: 0.56 ug/L
RT: 5.319 min Scan# 551
Delta R.T. 0.006 min
Lab File: J0981931.D
Acq: 3 Jan 2017 4:48 pm

Tgt Ion: 73 Resp: 9006

Ion	Ratio	Lower	Upper
73	100		
57	11.4	1.8	61.8
43	13.6	0.0	58.0
41	0.0	0.0	56.1

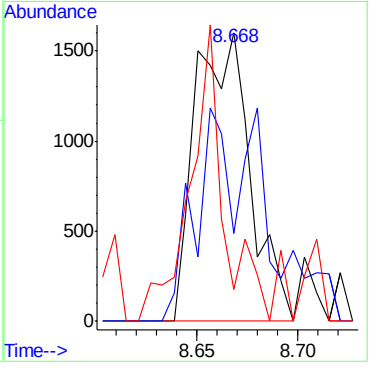




#112
1,4-Dioxane
Concen: 53.11 ug/L
RT: 8.668 min Scan# 1121
Delta R.T. 0.012 min
Lab File: J0981931.D
Acq: 3 Jan 2017 4:48 pm

Tgt Ion: 88 Resp: 3030

Ion	Ratio	Lower	Upper
88	100		
58	30.5	46.1	106.1#
43	11.1	0.0	56.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981932.D
Acq On : 3 Jan 2017 5:12 pm
Operator : darshnap
Sample : fa39907-11 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 04 09:40:22 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	564383	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	403934	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	198953	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	78632	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	129940	48.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.54%			
46) 1,2-Dichloroethane-d4	7.458	65	203290	56.74	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 113.48%			
57) Toluene-d8	9.279	98	537927	50.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.30%			
79) 4-Bromofluorobenzene	12.035	95	214907	54.15	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.30%			

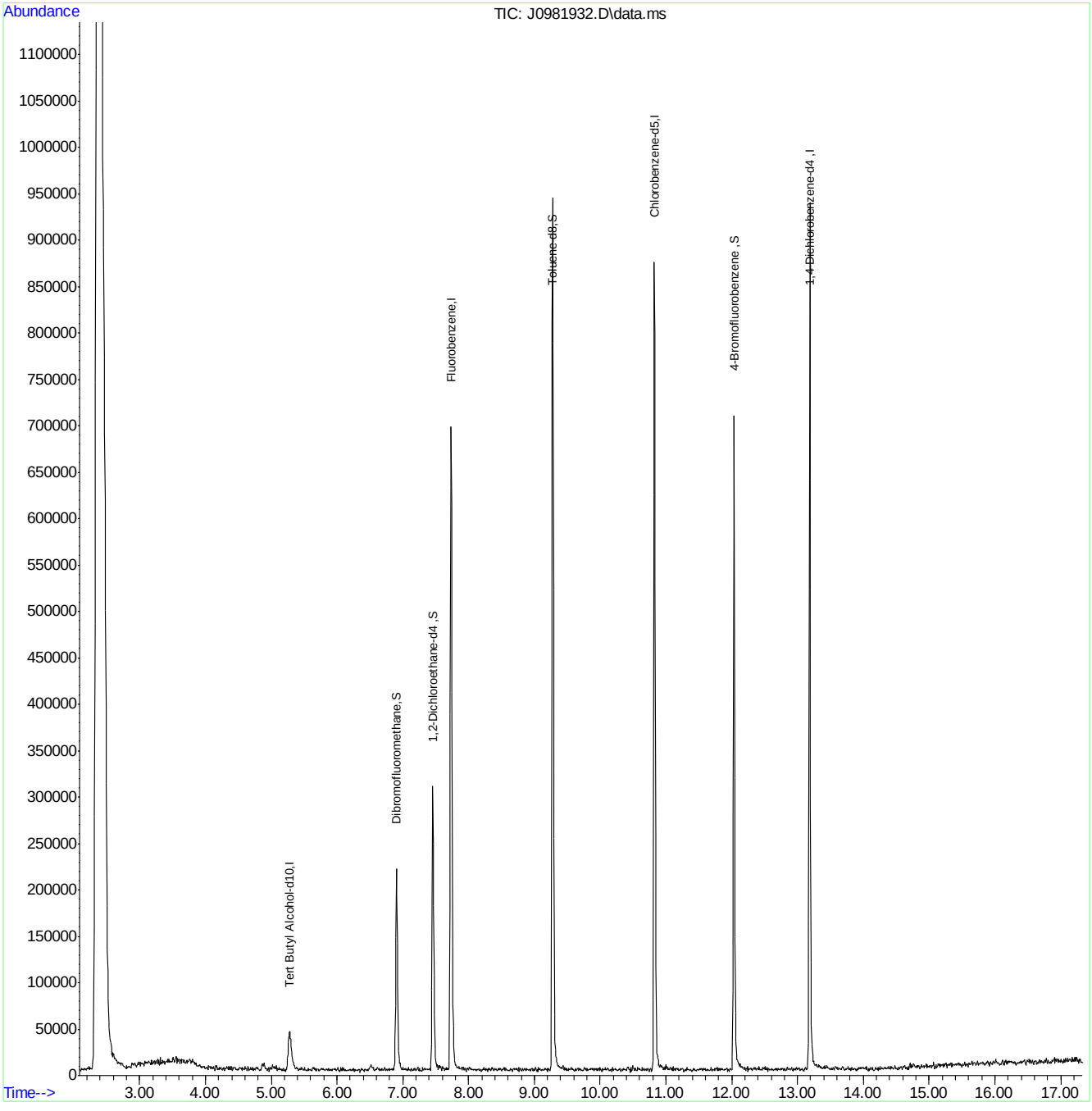
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981932.D
Acq On : 3 Jan 2017 5:12 pm
Operator : darshnap
Sample : fa39907-11 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 04 09:40:22 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981933.D
Acq On : 3 Jan 2017 5:36 pm
Operator : darshnap
Sample : fa39907-12 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 04 09:40:49 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	551869	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	392866	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	201851	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	73333	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	125575	48.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.40%			
46) 1,2-Dichloroethane-d4	7.452	65	194718	55.58	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.16%			
57) Toluene-d8	9.279	98	528128	50.62	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.24%			
79) 4-Bromofluorobenzene	12.035	95	209432	52.02	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.04%			

Target Compounds Qvalue

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

7.1.12

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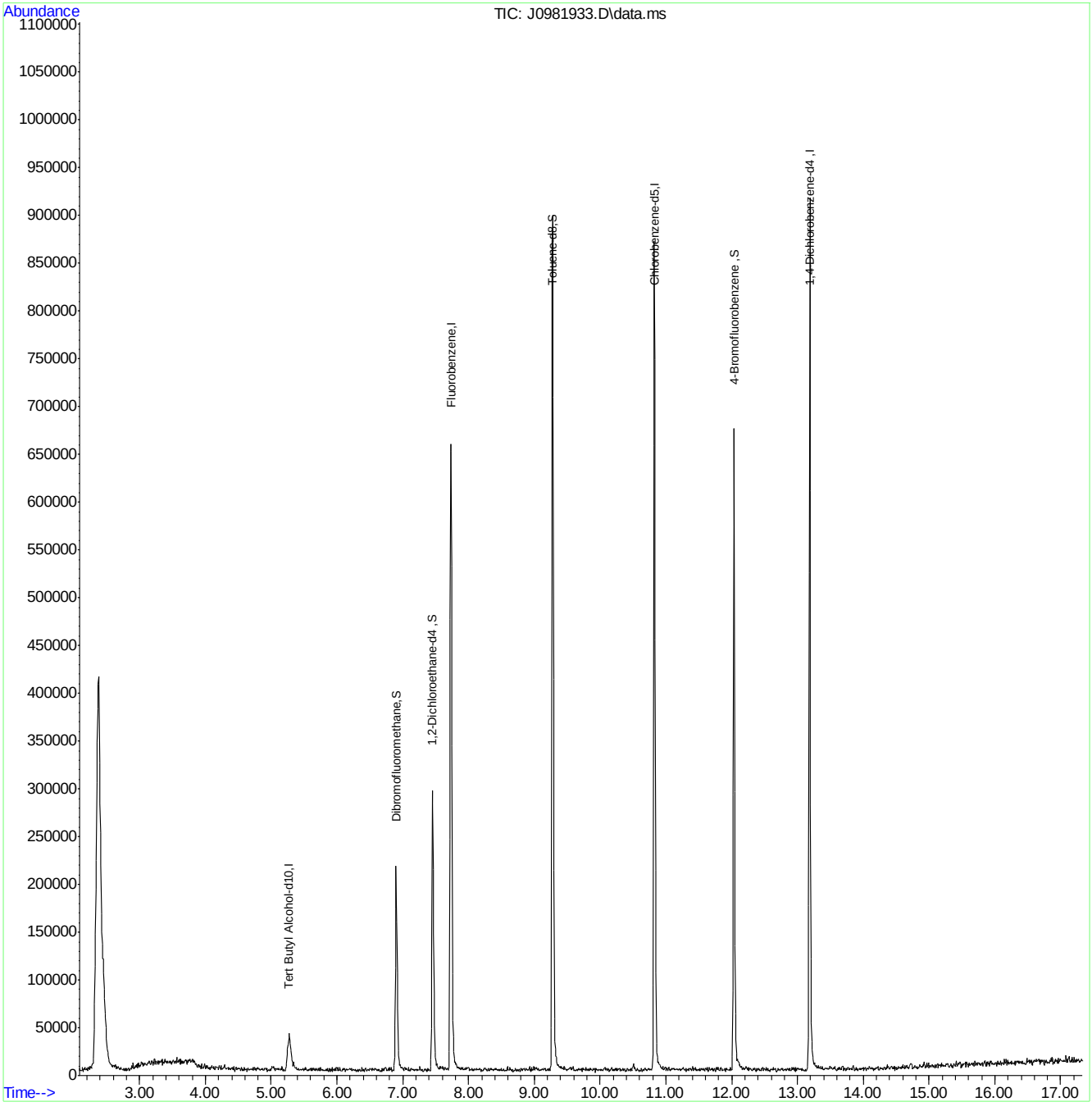
SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981933.D
Acq On : 3 Jan 2017 5:36 pm
Operator : darshnap
Sample : fa39907-12 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 04 09:40:49 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



MSJ123016.M Wed Jan 04 09:55:30 2017 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981934.D
Acq On : 3 Jan 2017 6:00 pm
Operator : darshnap
Sample : fa39907-13 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 04 09:41:34 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	562585	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	399508	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	191266	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	77341	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.899	113	129154	48.63	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.26%			
46) 1,2-Dichloroethane-d4	7.452	65	202243	56.62	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 113.24%			
57) Toluene-d8	9.279	98	534908	50.42	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.84%			
79) 4-Bromofluorobenzene	12.035	95	209403	54.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.78%			

Target Compounds Qvalue

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

7.1.13

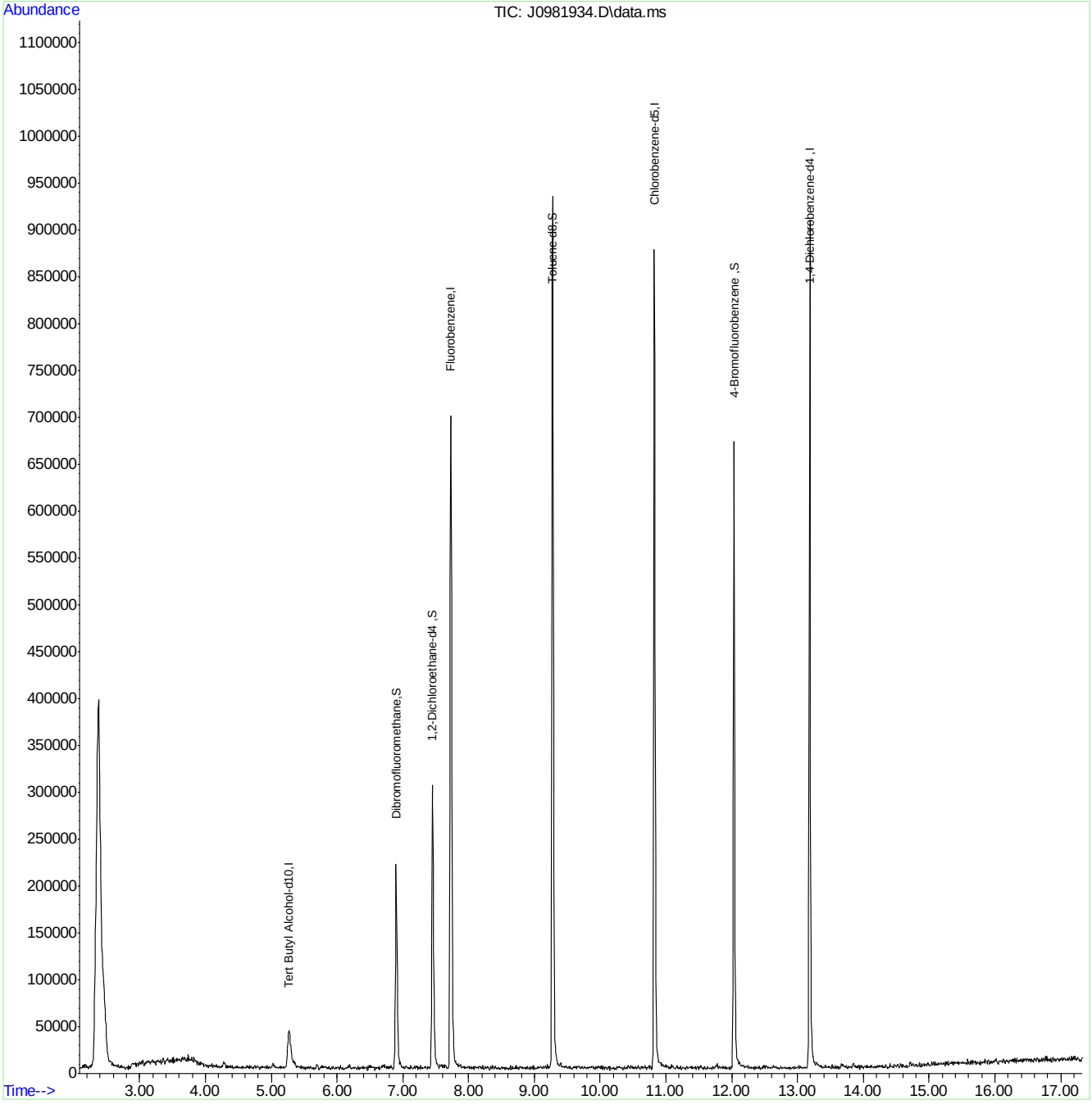
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981934.D
Acq On : 3 Jan 2017 6:00 pm
Operator : darshnap
Sample : fa39907-13 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 04 09:41:34 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



MSJ123016.M Wed Jan 04 09:55:32 2017 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981935.D
Acq On : 3 Jan 2017 6:23 pm
Operator : darshnap
Sample : fa39907-14 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 04 09:42:02 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	537493	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	381837	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	191372	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	75275	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	124596	49.10	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.20%			
46) 1,2-Dichloroethane-d4	7.458	65	195580	57.32	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 114.64%			
57) Toluene-d8	9.279	98	518487	51.13	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.26%			
79) 4-Bromofluorobenzene	12.035	95	194268	50.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.78%			

Target Compounds Qvalue

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

7.1.14

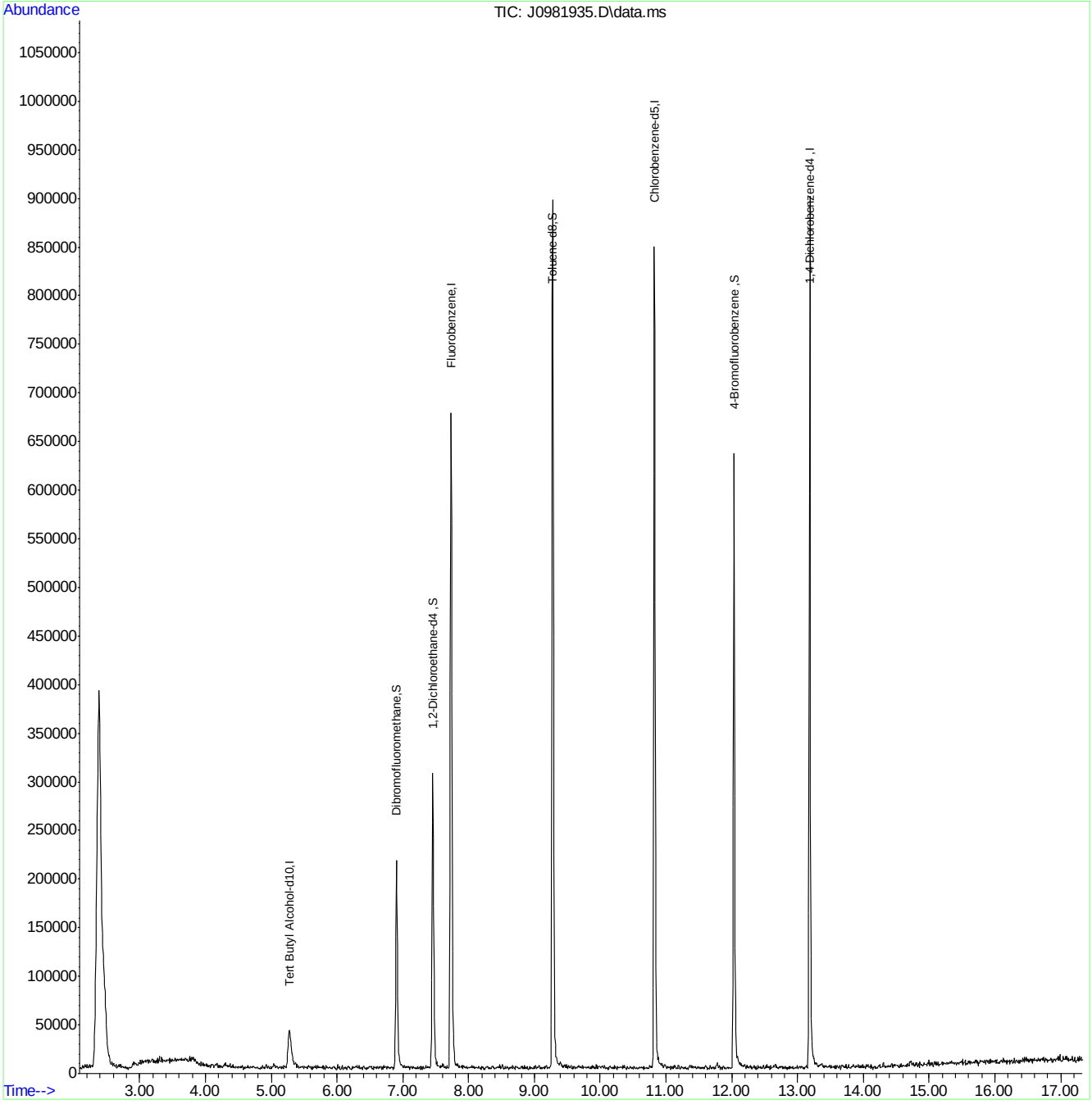
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981935.D
Acq On : 3 Jan 2017 6:23 pm
Operator : darshnap
Sample : fa39907-14 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 04 09:42:02 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



MSJ123016.M Wed Jan 04 09:55:34 2017 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981951.D
Acq On : 4 Jan 2017 11:49 am
Operator : darshnap
Sample : fa39907-15 ma Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 13:24:01 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

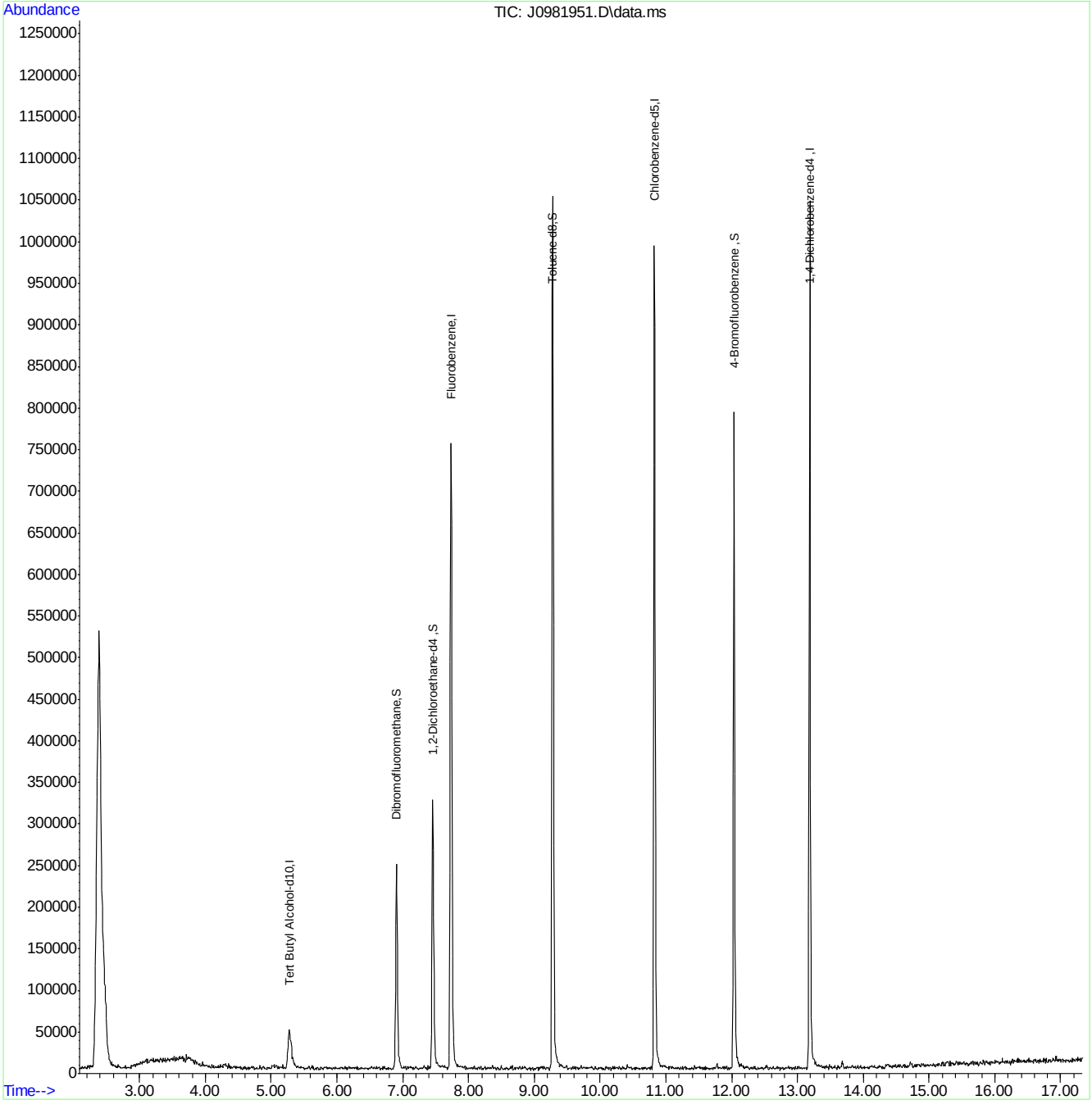
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	643415	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	475141	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	230702	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	91276	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	153946	50.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.36%			
46) 1,2-Dichloroethane-d4	7.458	65	220828	54.06	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.12%			
57) Toluene-d8	9.279	98	608850	48.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.50%			
79) 4-Bromofluorobenzene	12.035	95	252099	54.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.56%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981951.D
Acq On : 4 Jan 2017 11:49 am
Operator : darshnap
Sample : fa39907-15 ma Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 04 13:24:01 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
01/04/17 11:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981936.D
Acq On : 3 Jan 2017 6:47 pm
Operator : darshnap
Sample : fa39907-16 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 04 09:43:39 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	509131	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	371728	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	184342	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	67891	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	118804	49.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.86%			
46) 1,2-Dichloroethane-d4	7.458	65	185926	57.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 115.04%			
57) Toluene-d8	9.279	98	491670	49.80	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.60%			
79) 4-Bromofluorobenzene	12.035	95	194779	52.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.94%			
Target Compounds						Qvalue
9) Ethyl Ether	4.103	59	1652	0.38	ug/L #	83
21) Methyl Tert Butyl Ether	5.319	73	103318	7.21	ug/L	92
23) Di-isopropyl ether	5.713	45	5070	0.26	ug/L	86
44) Benzene	7.340	78	13527	0.77	ug/L	61
49) Methylcyclohexane	7.928	83	2780	0.33	ug/L	82
58) Toluene	9.326	91	7132	0.39	ug/L	79
71) Chlorobenzene	10.848	112	3702	0.29	ug/L #	72
73) m,p-Xylene	10.989	91	13777	0.74	ug/L	92
77) Isopropylbenzene	11.723	105	316904	14.36	ug/L	98
81) n-Propylbenzene	12.146	91	151785	6.20	ug/L	95
94) sec-Butylbenzene	12.852	105	32159	1.46	ug/L	88
98) n-Butylbenzene	13.421	92	10215	0.97	ug/L #	78
100) 1,2-Dichlorobenzene	13.627	146	2472	0.24	ug/L	89
109) Tert Butyl Alcohol	5.360	59	56558	99.48	ug/L	87
110) tert Amyl alcohol	7.546	59	2522m	5.65	ug/L	
112) 1,4-Dioxane	8.650	88	353059	7438.07	ug/L	95

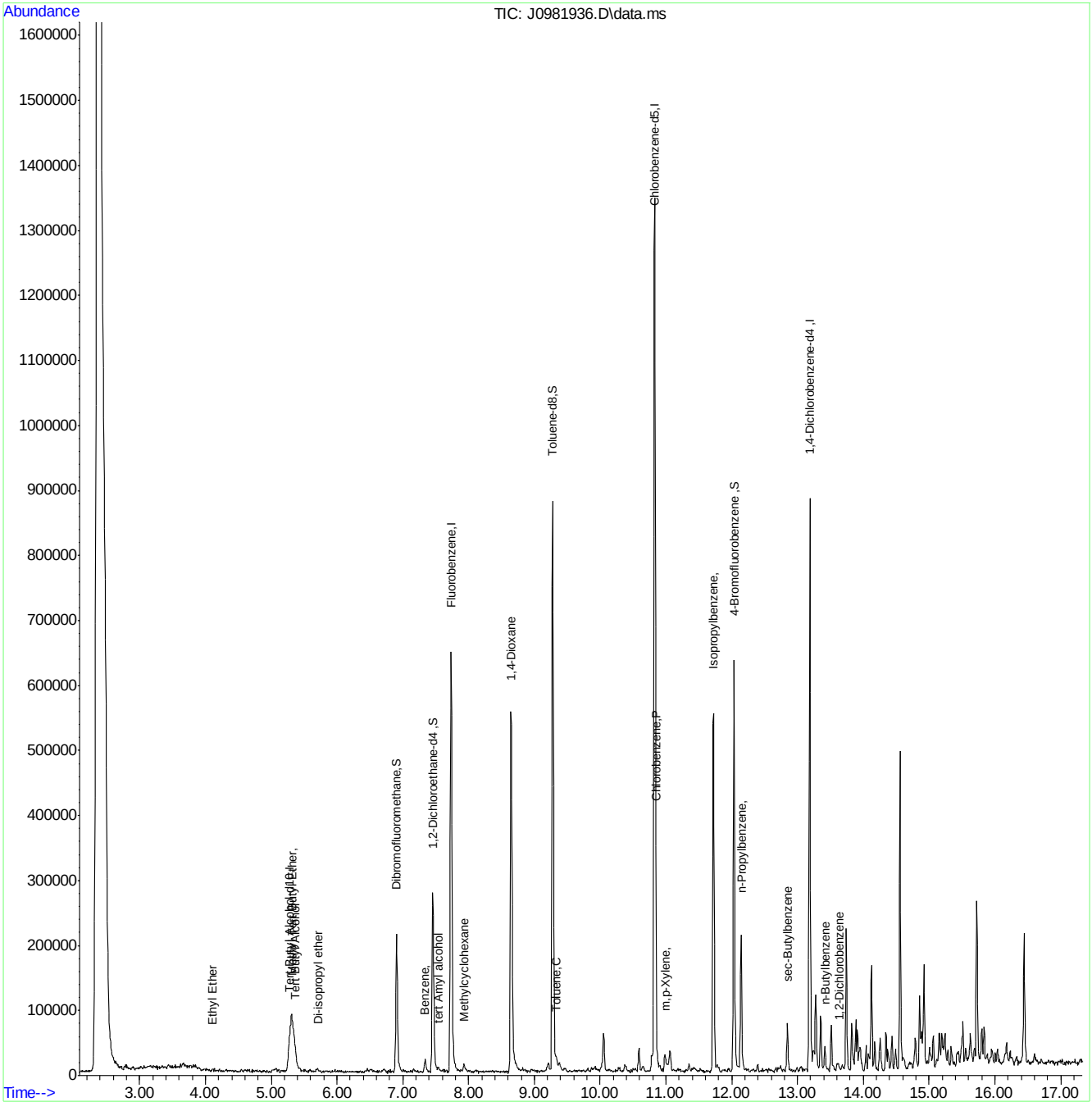
(#) = qualifier out of range (m) = manual integration (+) = signals summed

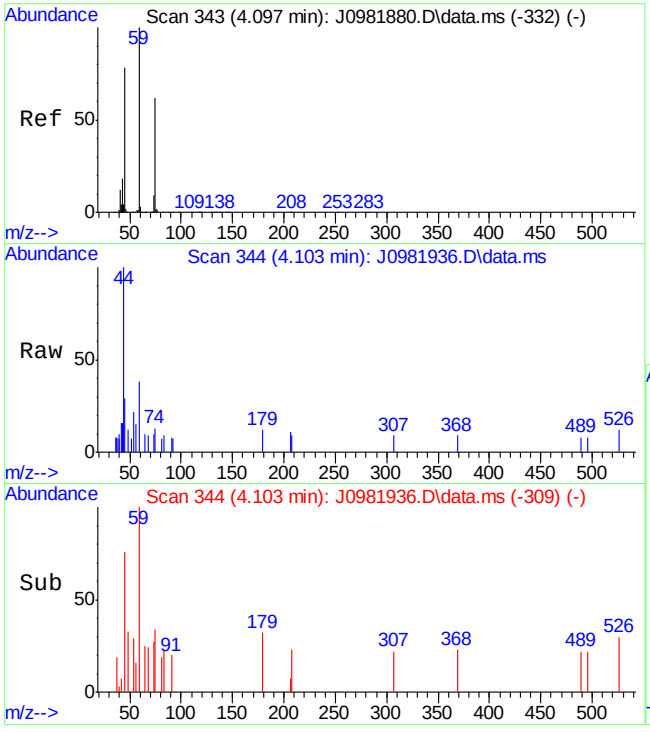
7.1.16
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981936.D
Acq On : 3 Jan 2017 6:47 pm
Operator : darshnap
Sample : fa39907-16 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 04 09:43:39 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

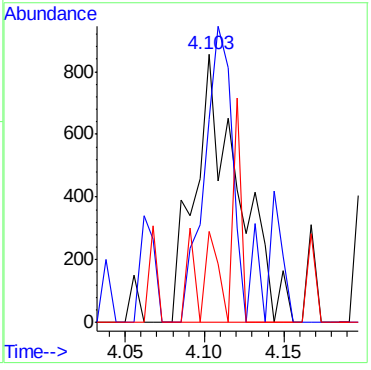


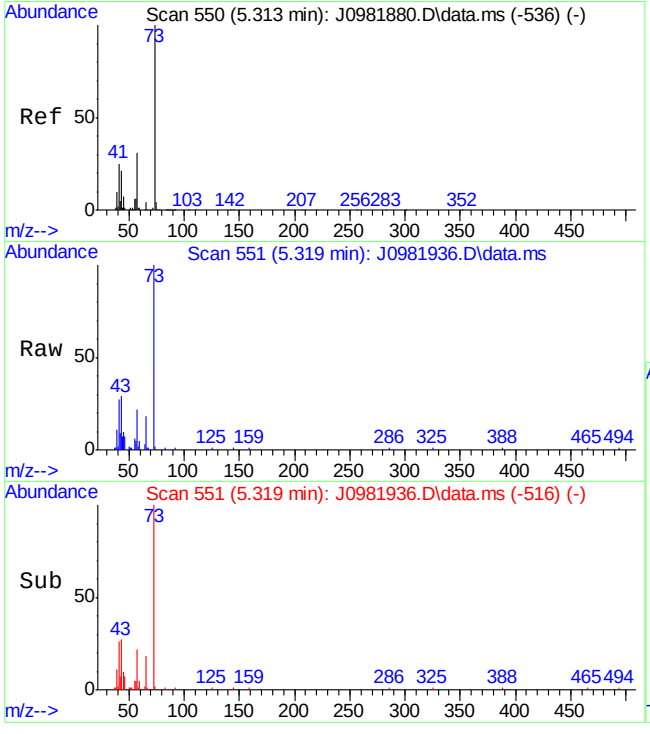


#9
Ethyl Ether
Concen: 0.38 ug/L
RT: 4.103 min Scan# 344
Delta R.T. 0.006 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 59 Resp: 1652

Ion	Ratio	Lower	Upper
59	100		
45	75.7	58.0	98.0
74	34.0	41.7	81.7#

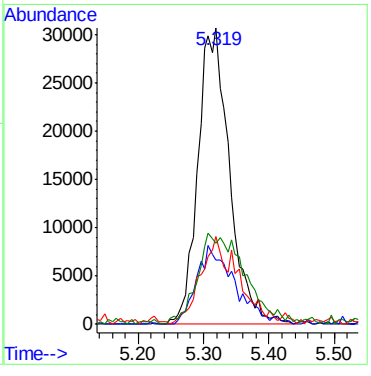


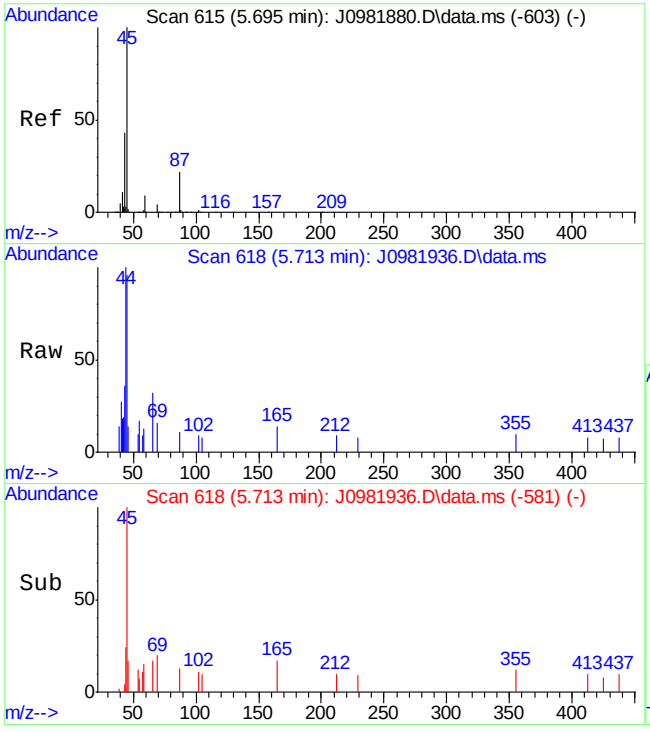


#21
Methyl Tert Butyl Ether
Concen: 7.21 ug/L
RT: 5.319 min Scan# 551
Delta R.T. 0.006 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 73 Resp: 103318

Ion	Ratio	Lower	Upper
73	100		
57	21.6	1.8	61.8
43	28.6	0.0	58.0
41	27.4	0.0	56.1

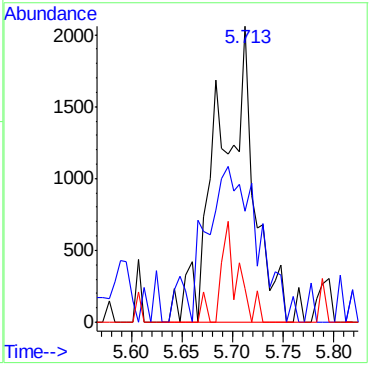


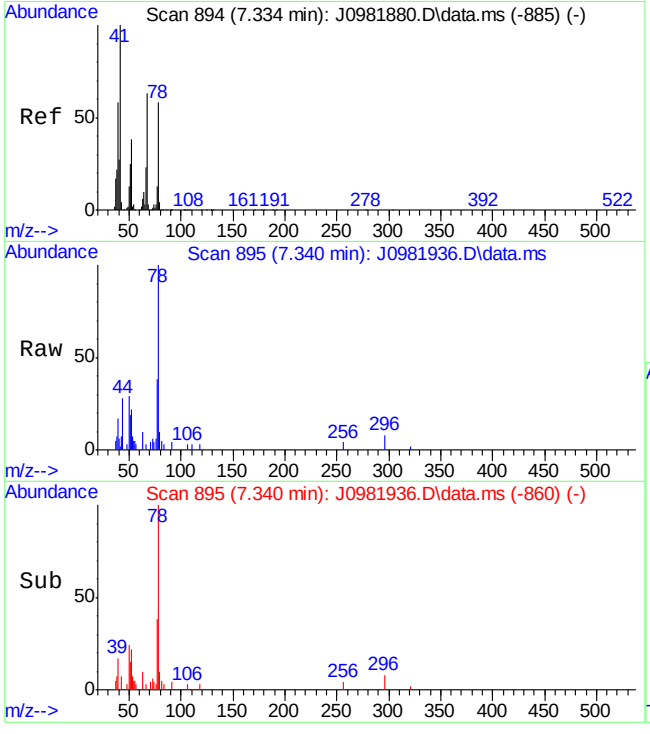


#23
Di-isopropyl ether
Concen: 0.26 ug/L
RT: 5.713 min Scan# 618
Delta R.T. 0.018 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 45 Resp: 5070

Ion	Ratio	Lower	Upper
45	100		
43	37.3	13.4	73.4
87	11.5	0.0	52.1

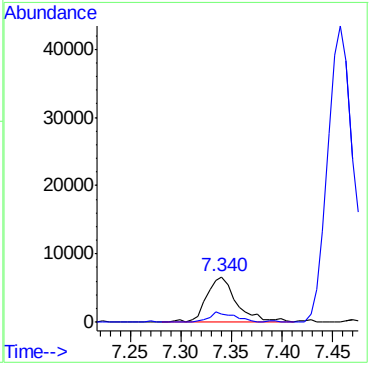


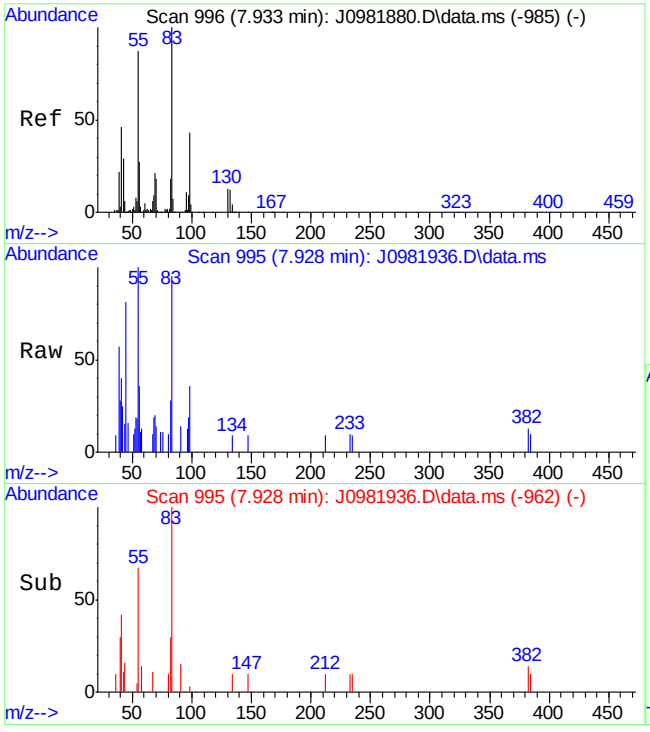


#44
Benzene
Concen: 0.77 ug/L
RT: 7.340 min Scan# 895
Delta R.T. 0.006 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 78 Resp: 13527

Ion	Ratio	Lower	Upper
78	100		
51	18.6	13.6	73.6

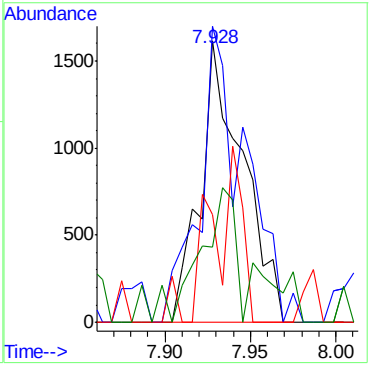


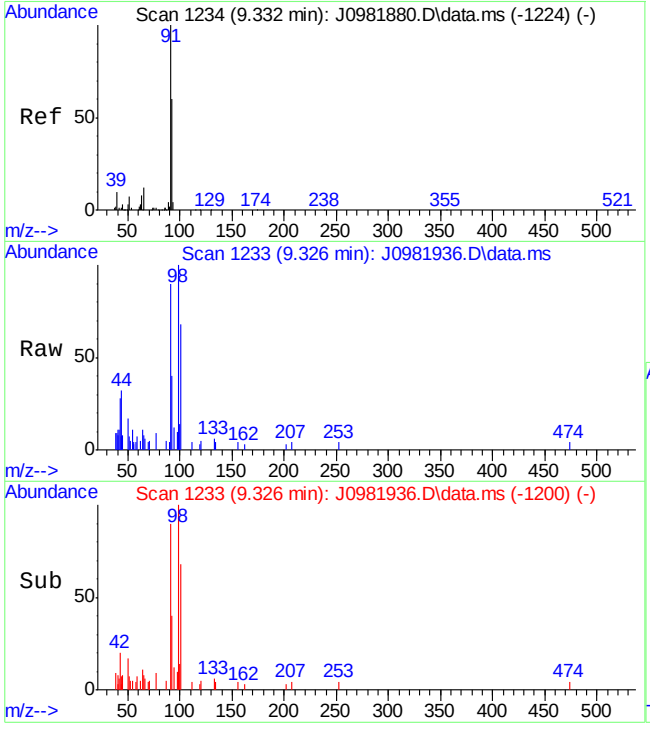


#49
Methylcyclohexane
Concen: 0.33 ug/L
RT: 7.928 min Scan# 995
Delta R.T. -0.005 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 83 Resp: 2780

Ion	Ratio	Lower	Upper
83	100		
55	105.2	66.5	106.5
98	38.1	23.3	63.3
42	13.6	8.5	48.5

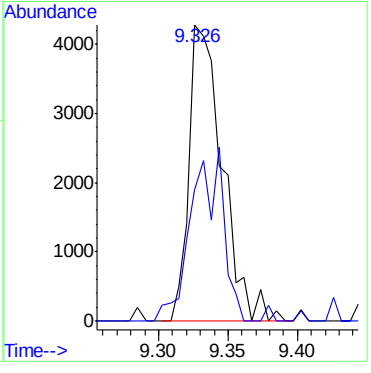


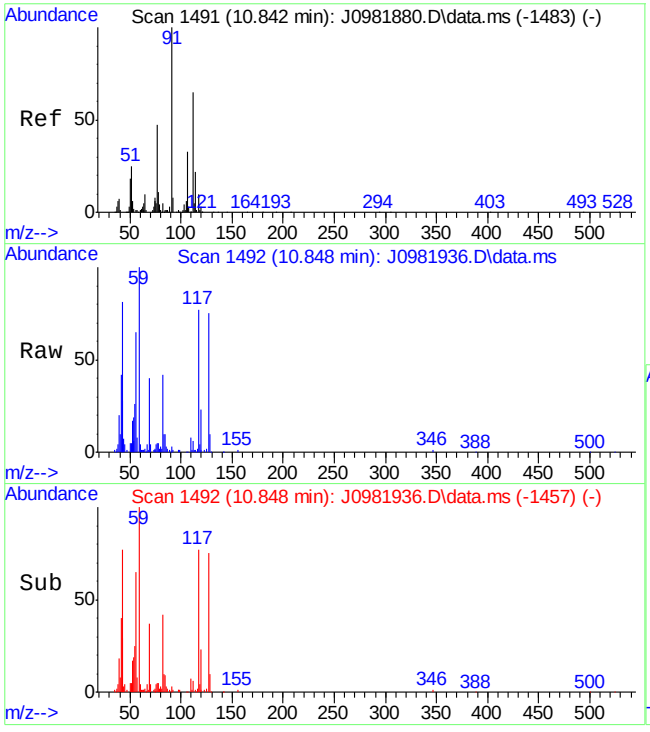


#58
Toluene
Concen: 0.39 ug/L
RT: 9.326 min Scan# 1233
Delta R.T. -0.006 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 91 Resp: 7132

Ion	Ratio	Lower	Upper
91	100		
92	44.4	29.9	89.9

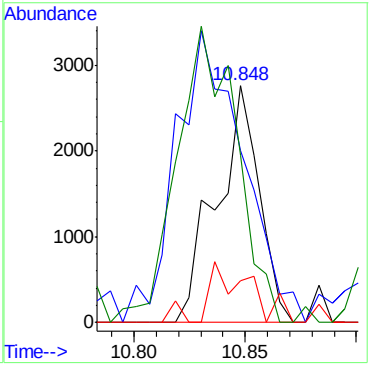


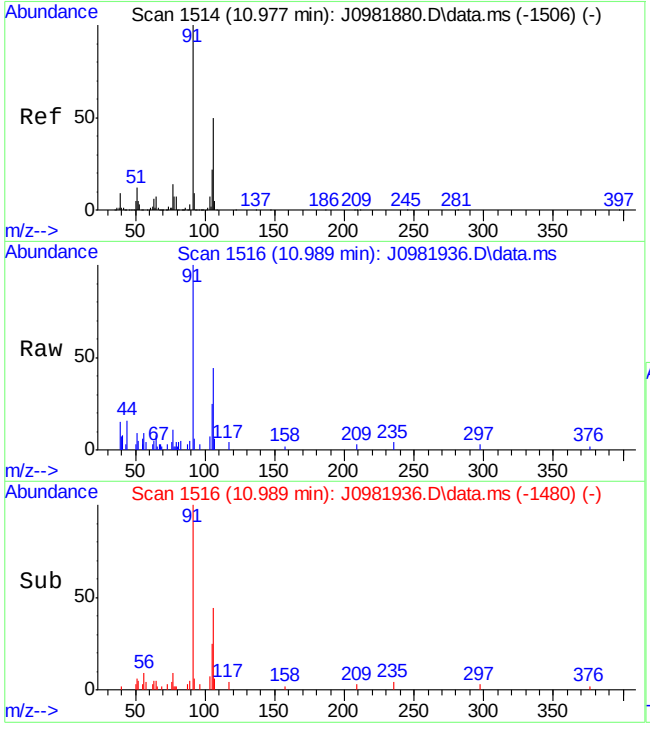


#71
Chlorobenzene
Concen: 0.29 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. 0.006 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion:112 Resp: 3702

Ion	Ratio	Lower	Upper
112	100		
77	60.0	42.6	102.6
114	17.3	3.6	63.6
51	70.4	7.9	67.9#

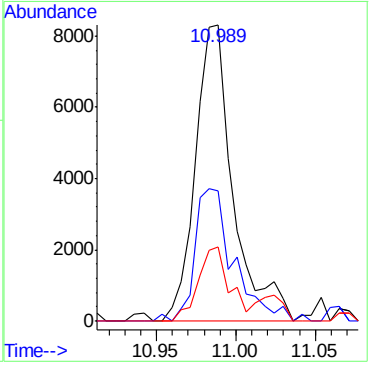


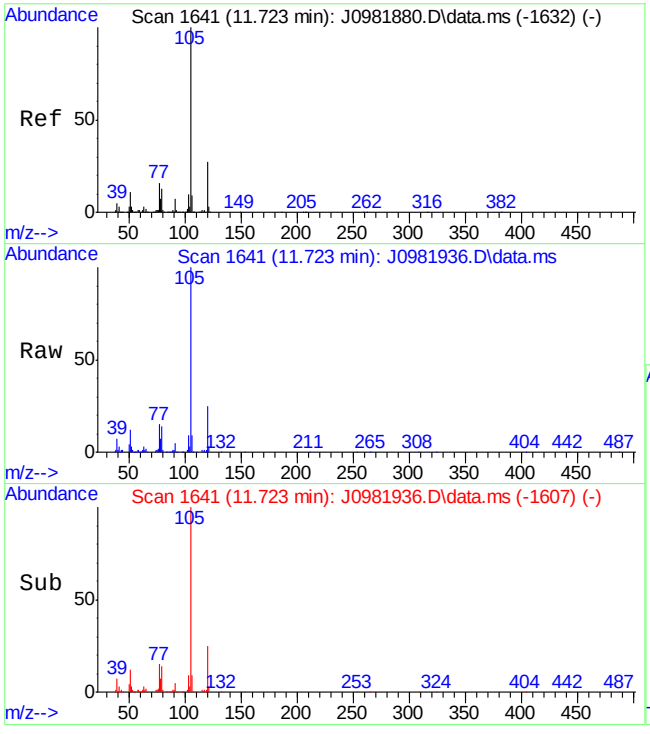


#73
m,p-Xylene
Concen: 0.74 ug/L
RT: 10.989 min Scan# 1516
Delta R.T. 0.012 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 91 Resp: 13777

Ion	Ratio	Lower	Upper
91	100		
106	44.0	19.7	79.7
105	25.1	0.0	52.3

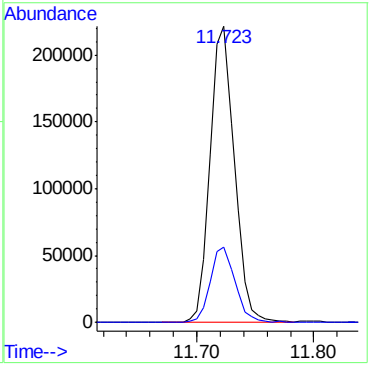


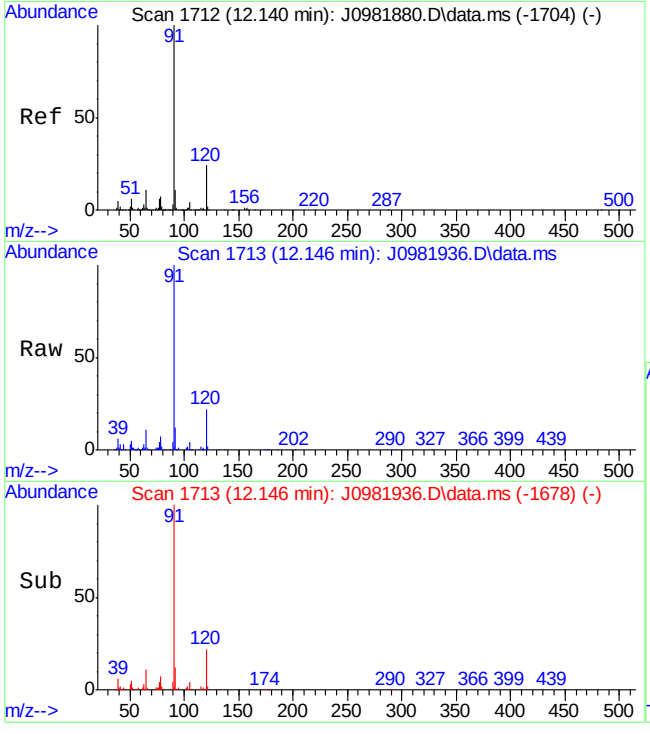


#77
Isopropylbenzene
Concen: 14.36 ug/L
RT: 11.723 min Scan# 1641
Delta R.T. 0.000 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion:105 Resp: 316904

Ion	Ratio	Lower	Upper
105	100		
120	25.3	0.0	56.6

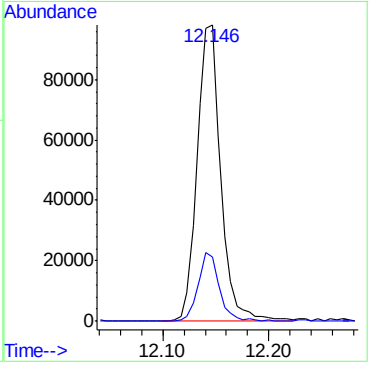


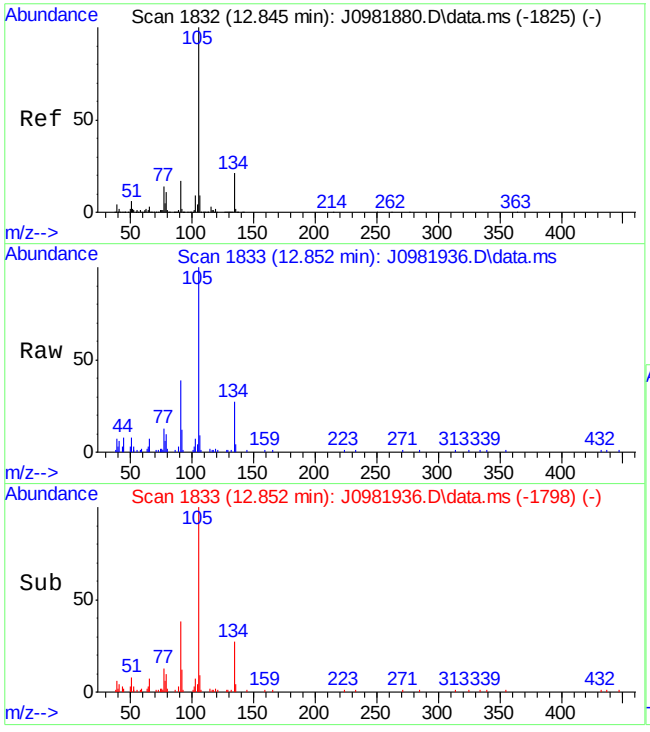


#81
n-Propylbenzene
Concen: 6.20 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.006 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 91 Resp: 151785

Ion	Ratio	Lower	Upper
91	100		
120	21.7	0.0	54.3

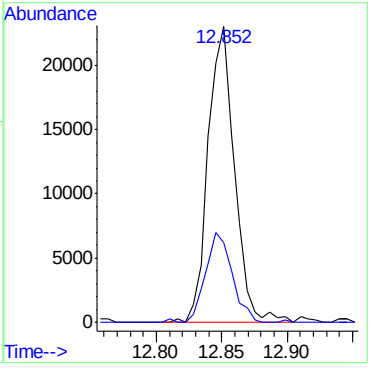


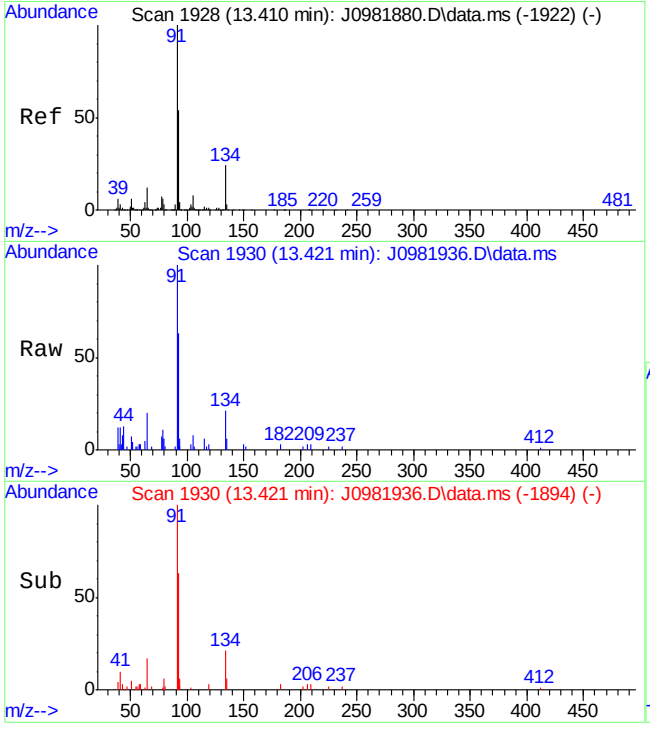


#94
sec-Butylbenzene
Concen: 1.46 ug/L
RT: 12.852 min Scan# 1833
Delta R.T. 0.007 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion:105 Resp: 32159

Ion	Ratio	Lower	Upper
105	100		
134	26.8	0.0	51.3

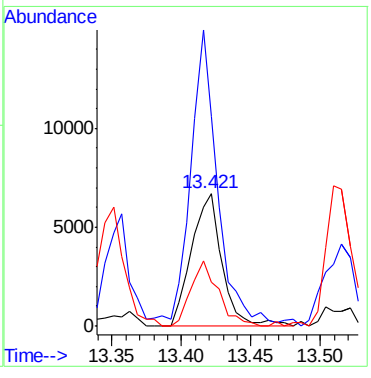


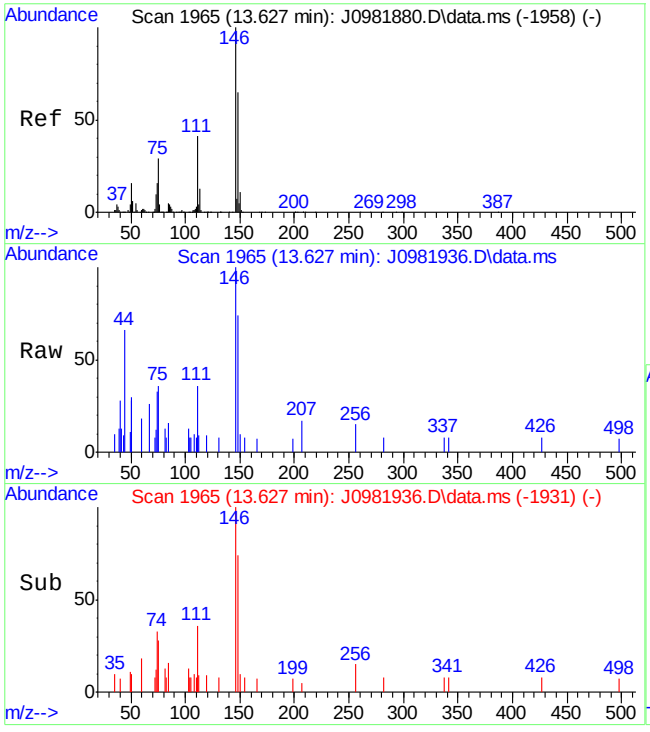


#98
n-Butylbenzene
Concen: 0.97 ug/L
RT: 13.421 min Scan# 1930
Delta R.T. 0.011 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 92 Resp: 10215

Ion	Ratio	Lower	Upper
92	100		
91	152.5	155.2	215.2#
134	32.9	14.3	74.3

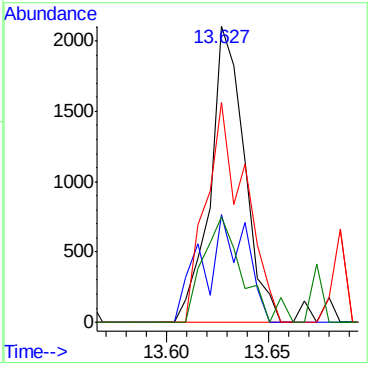


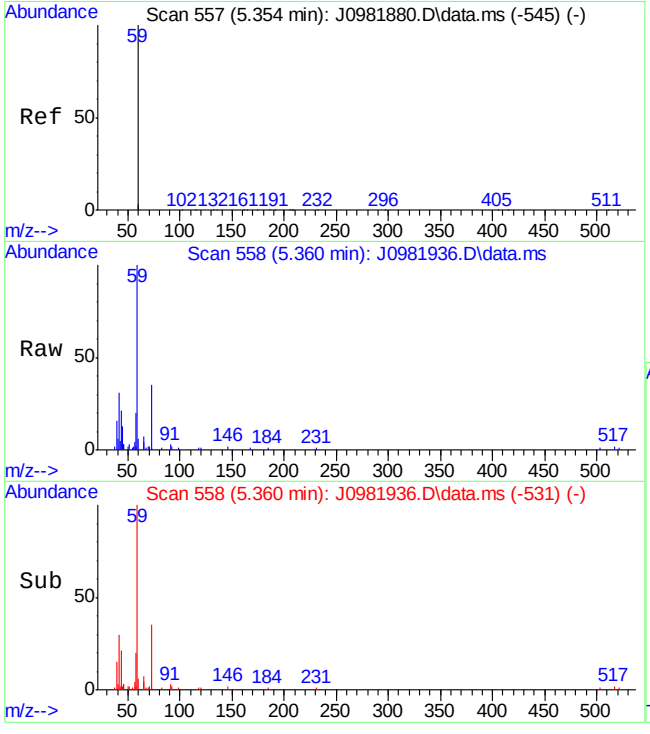


#100
1,2-Dichlorobenzene
Concen: 0.24 ug/L
RT: 13.627 min Scan# 1965
Delta R.T. 0.000 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion:146 Resp: 2472

Ion	Ratio	Lower	Upper
146	100		
111	36.4	10.9	70.9
148	74.3	35.1	95.1
75	35.6	0.0	58.5

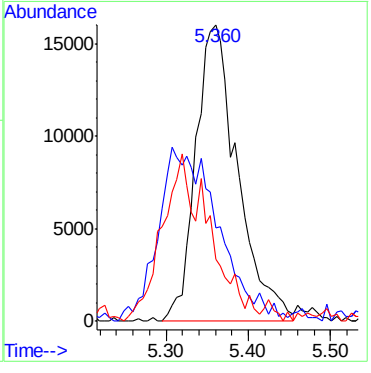


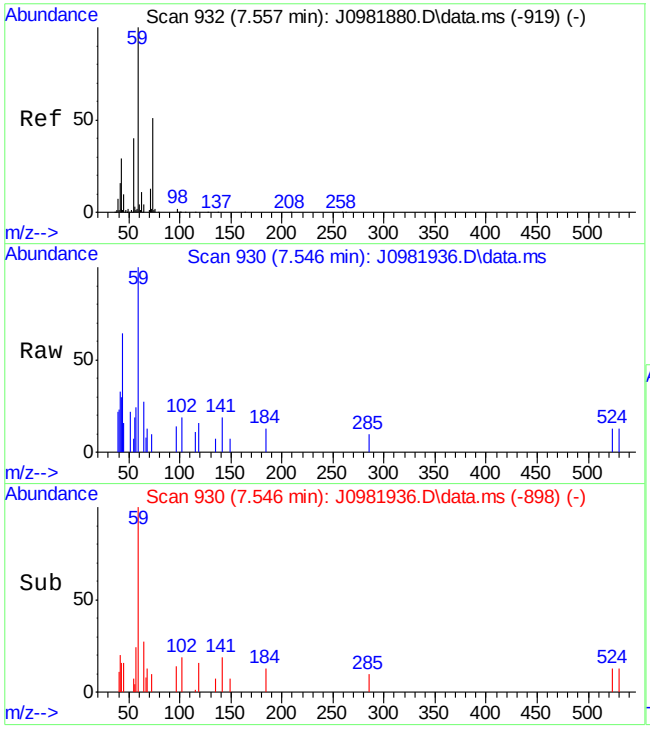


#109
Tert Butyl Alcohol
Concen: 99.48 ug/L
RT: 5.360 min Scan# 558
Delta R.T. 0.006 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 59 Resp: 56558

Ion	Ratio	Lower	Upper
59	100		
41	28.5	15.7	55.7
43	21.0	8.8	48.8

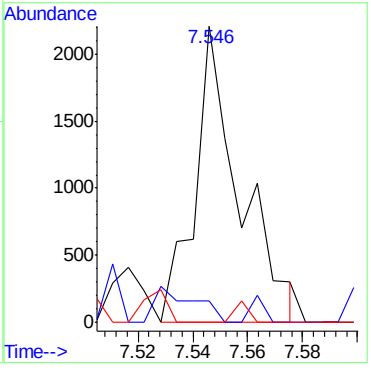


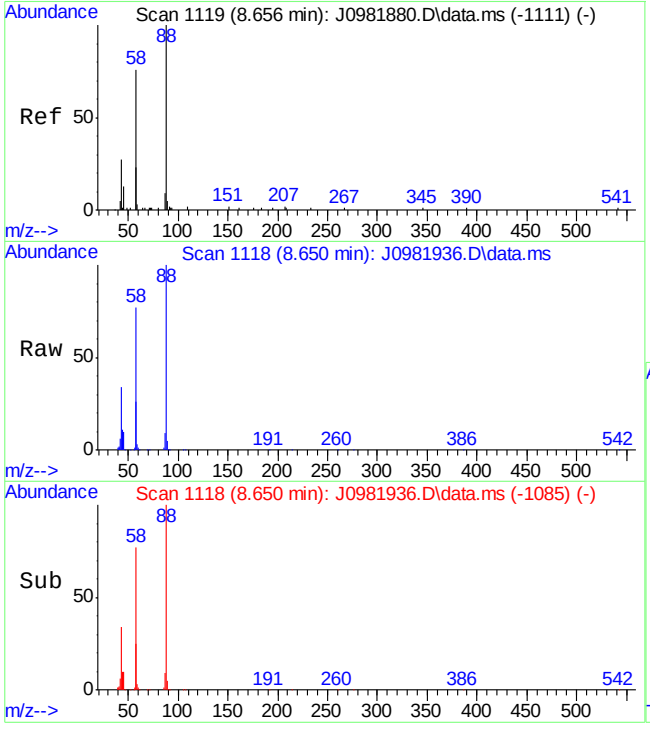


#110
tert Amyl alcohol
Concen: 5.65 ug/L m
RT: 7.546 min Scan# 930
Delta R.T. -0.011 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 59 Resp: 2522

Ion	Ratio	Lower	Upper
59	100		
55	7.2	20.7	60.7#
73	0.0	33.0	73.0#

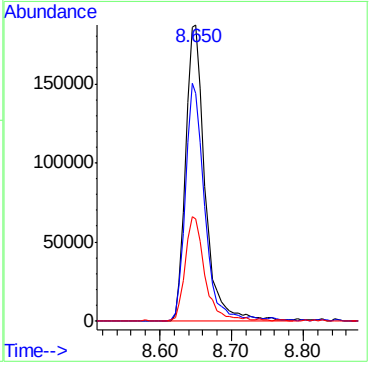




#112
1,4-Dioxane
Concen: 7438.07 ug/L
RT: 8.650 min Scan# 1118
Delta R.T. -0.006 min
Lab File: J0981936.D
Acq: 3 Jan 2017 6:47 pm

Tgt Ion: 88 Resp: 353059

Ion	Ratio	Lower	Upper
88	100		
58	77.1	46.1	106.1
43	34.4	0.0	56.5



Manual Integration Approval Summary

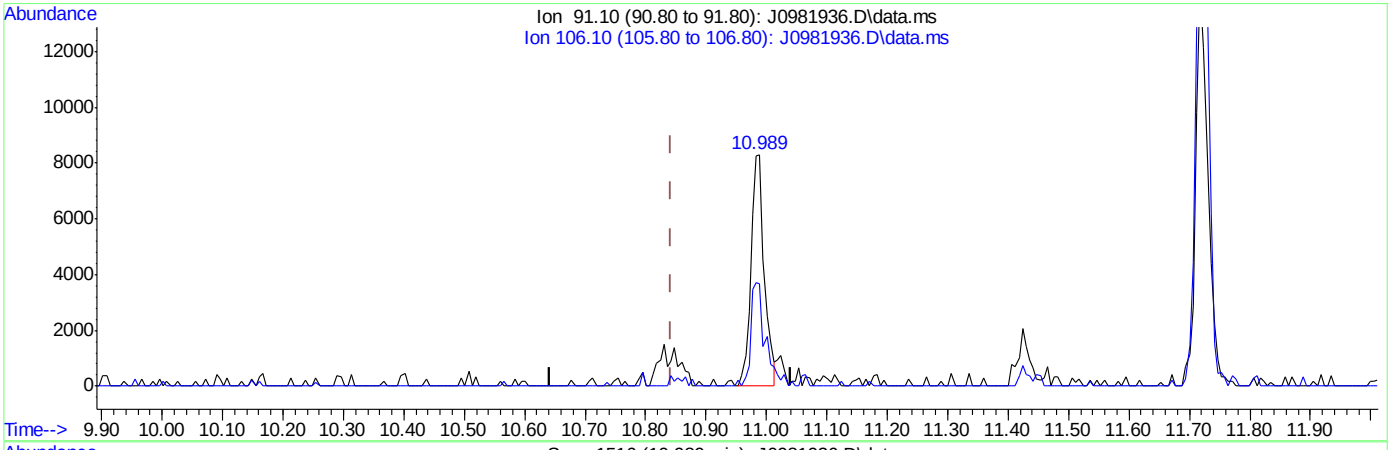
Sample Number:	FA39907-16	**Method:**	SW846 8260C
Lab FileID:	J0981936.D	**Analyst approved:**	01/04/17 10:47 Darshna Patel
Injection Time:	01/03/17 18:47	**Supervisor approved:**	01/04/17 11:43 Juan Garcia

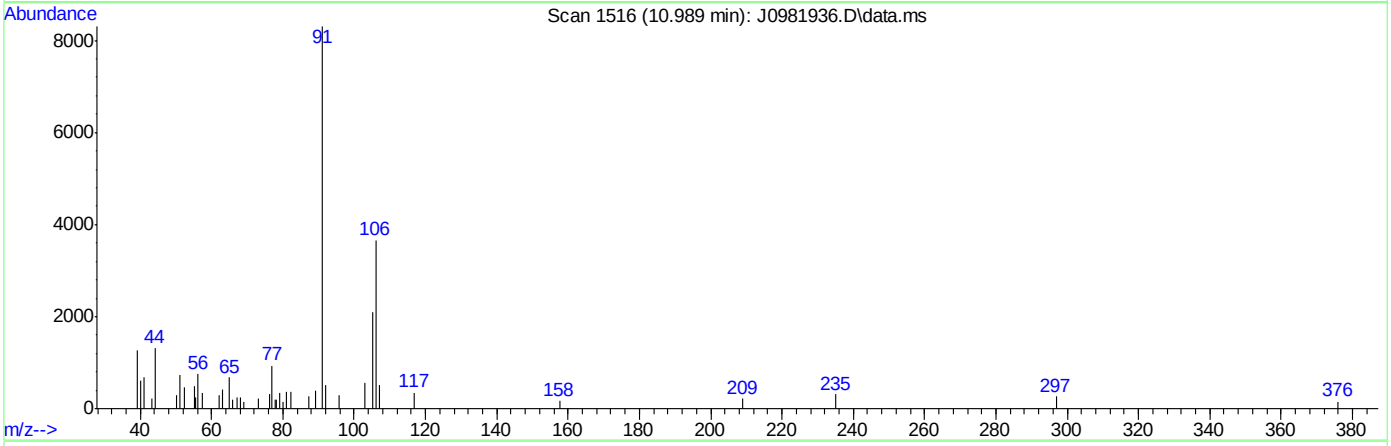
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tert-Amyl Alcohol	75-85-4		7.55	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981936.D
Acq On : 3 Jan 2017 6:47 pm
Operator : darshnap
Sample : fa39907-16 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 04 07:48:34 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981936.D\data.ms

(70) Ethylbenzene (C)

10.989min (+0.147) 0.62ug/L

response 12837

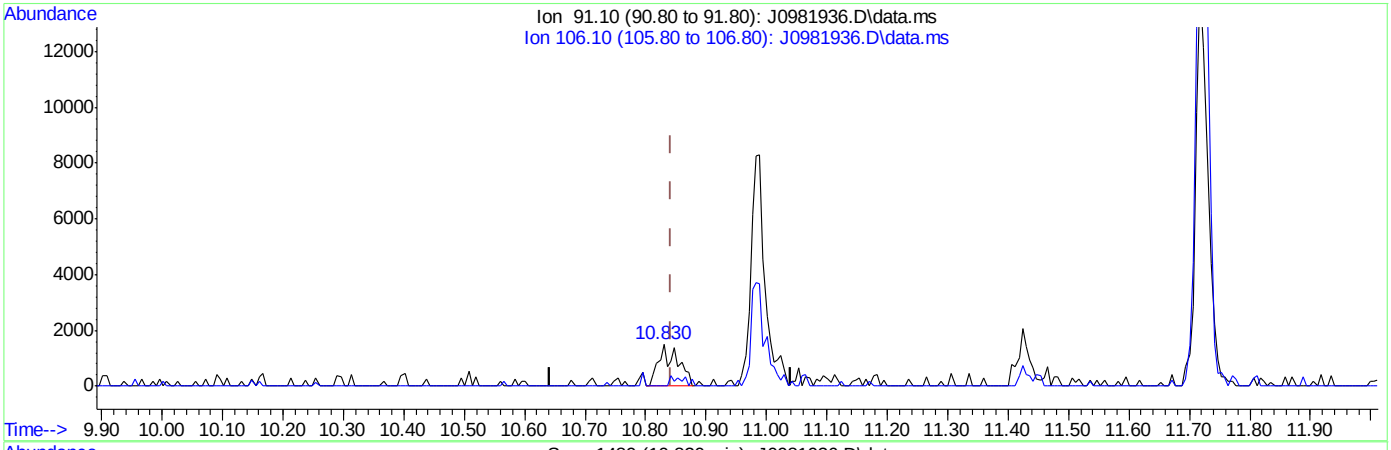
Ion	Exp%	Act%
91.10	100	100
106.10	32.00	41.57
0.00	0.00	0.00
0.00	0.00	0.00

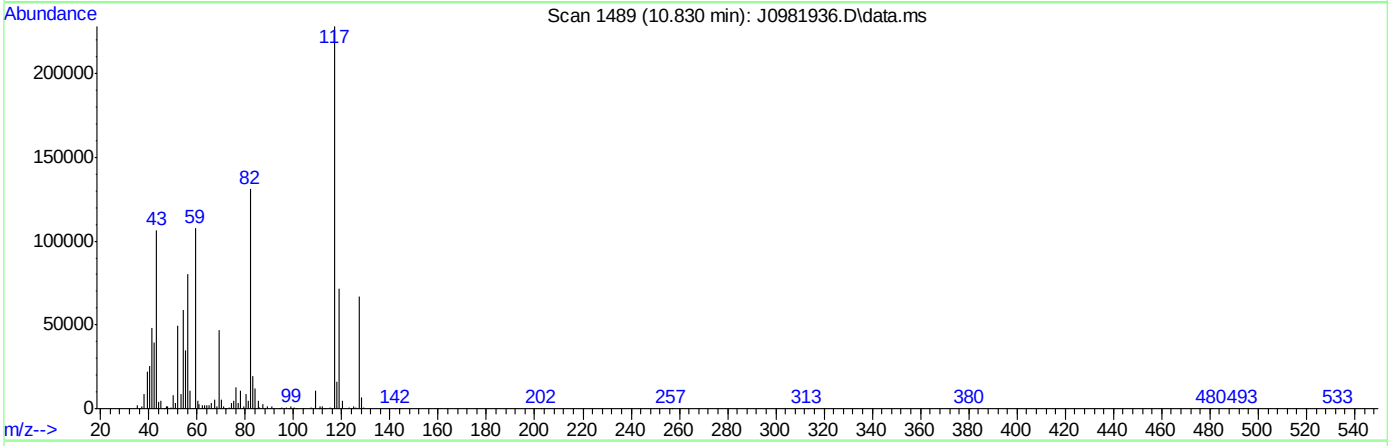
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981936.D
Acq On : 3 Jan 2017 6:47 pm
Operator : darshnap
Sample : fa39907-16 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 04 07:48:34 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981936.D\data.ms

(70) Ethylbenzene (C)

10.830min (-0.012) 0.16ug/L m

response 3264

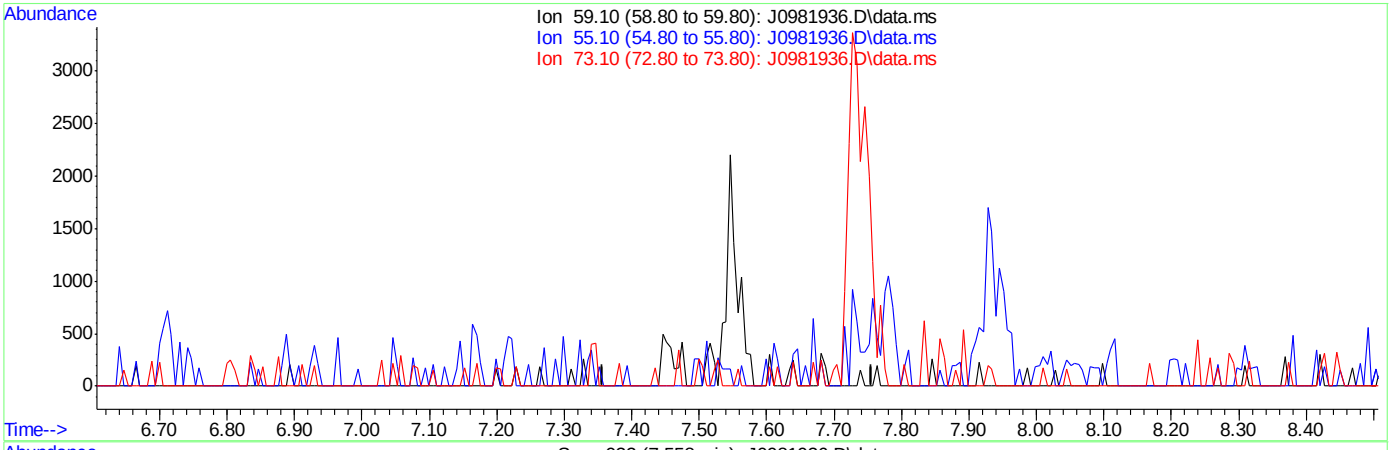
Ion	Exp%	Act%
91.10	100	100
106.10	32.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

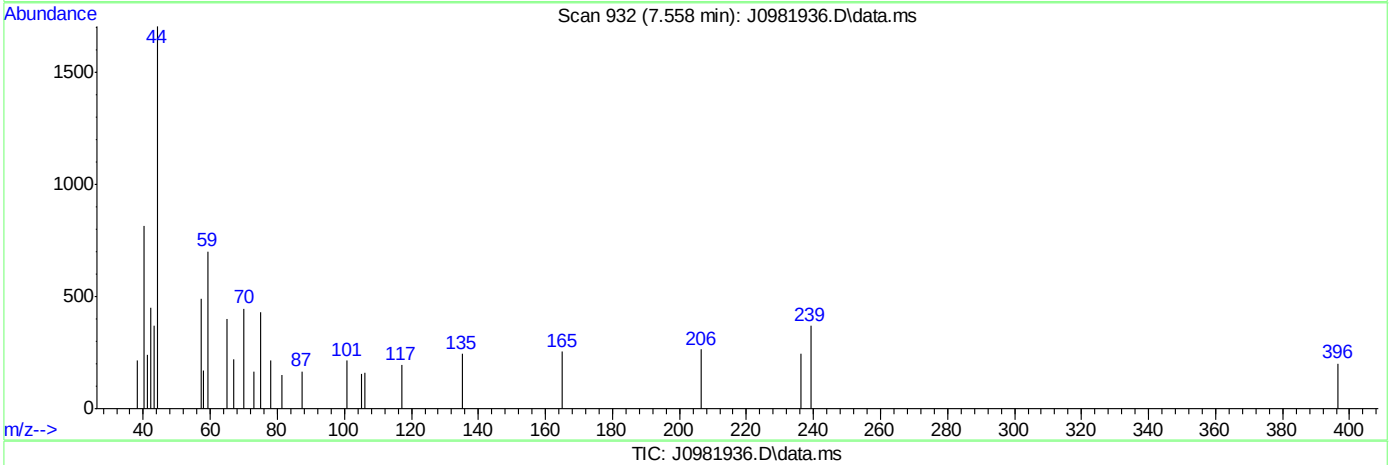
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981936.D
Acq On : 3 Jan 2017 6:47 pm
Operator : darshnap
Sample : fa39907-16 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 04 07:48:34 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981936.D\data.ms

(110) tert Amyl alcohol

7.557min 0.00ug/L d

response 0

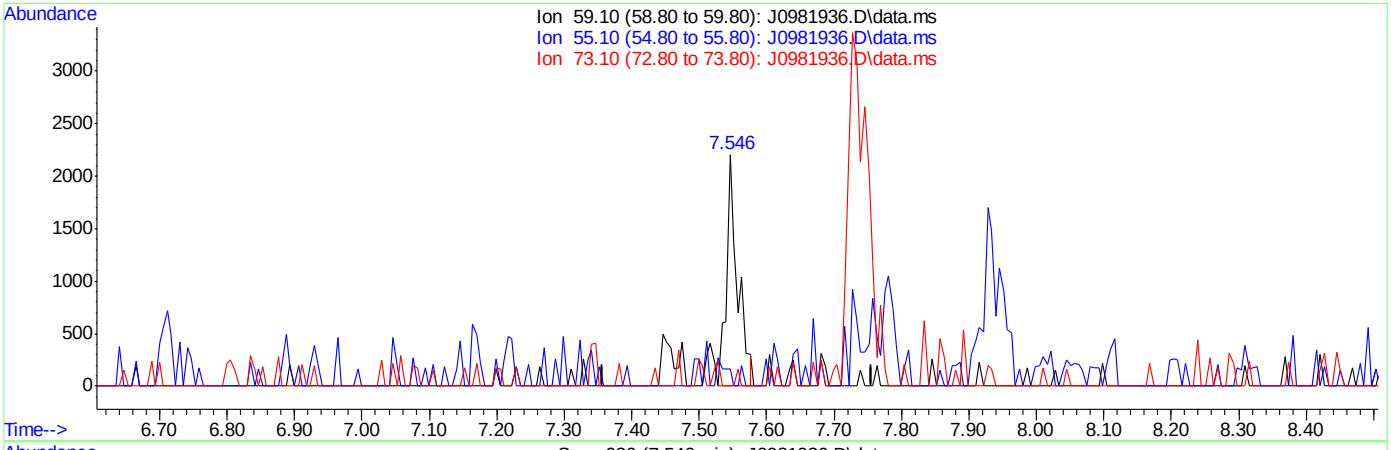
Ion	Exp%	Act%
59.10	100	0.00
55.10	40.70	0.00
73.10	53.00	0.00
0.00	0.00	0.00

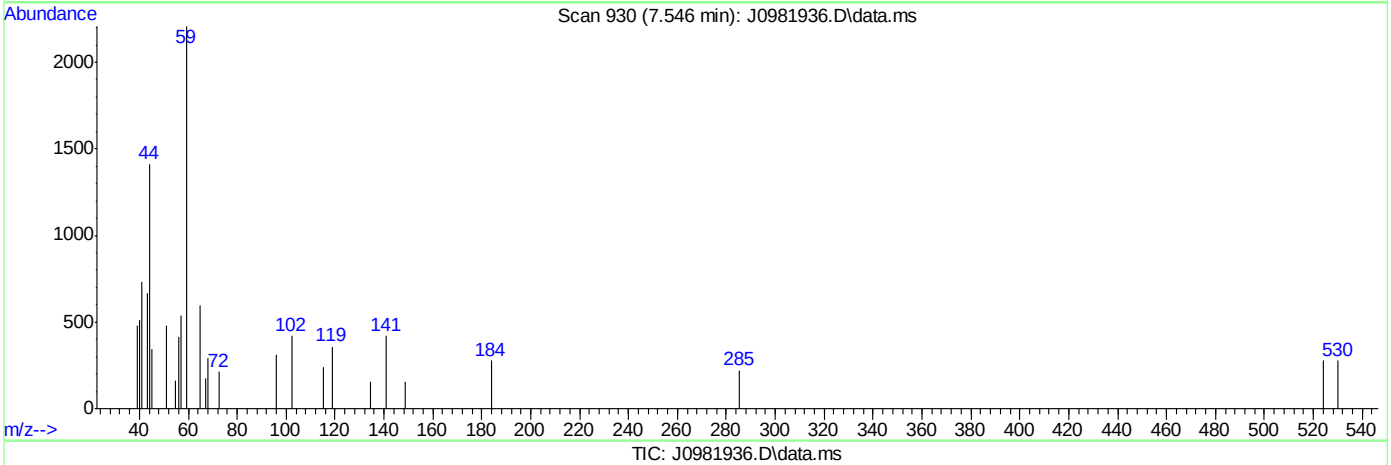
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981936.D
Acq On : 3 Jan 2017 6:47 pm
Operator : darshnap
Sample : fa39907-16 ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jan 04 07:48:34 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981936.D\data.ms

(110) tert Amyl alcohol

7.546min (-0.011) 5.65ug/L m

response 2522

Ion	Exp%	Act%
59.10	100	100
55.10	40.70	7.20#
73.10	53.00	0.00#
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981952.D
Acq On : 4 Jan 2017 12:13 pm
Operator : darshnap
Sample : fa39907-17 ma Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 04 13:24:31 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

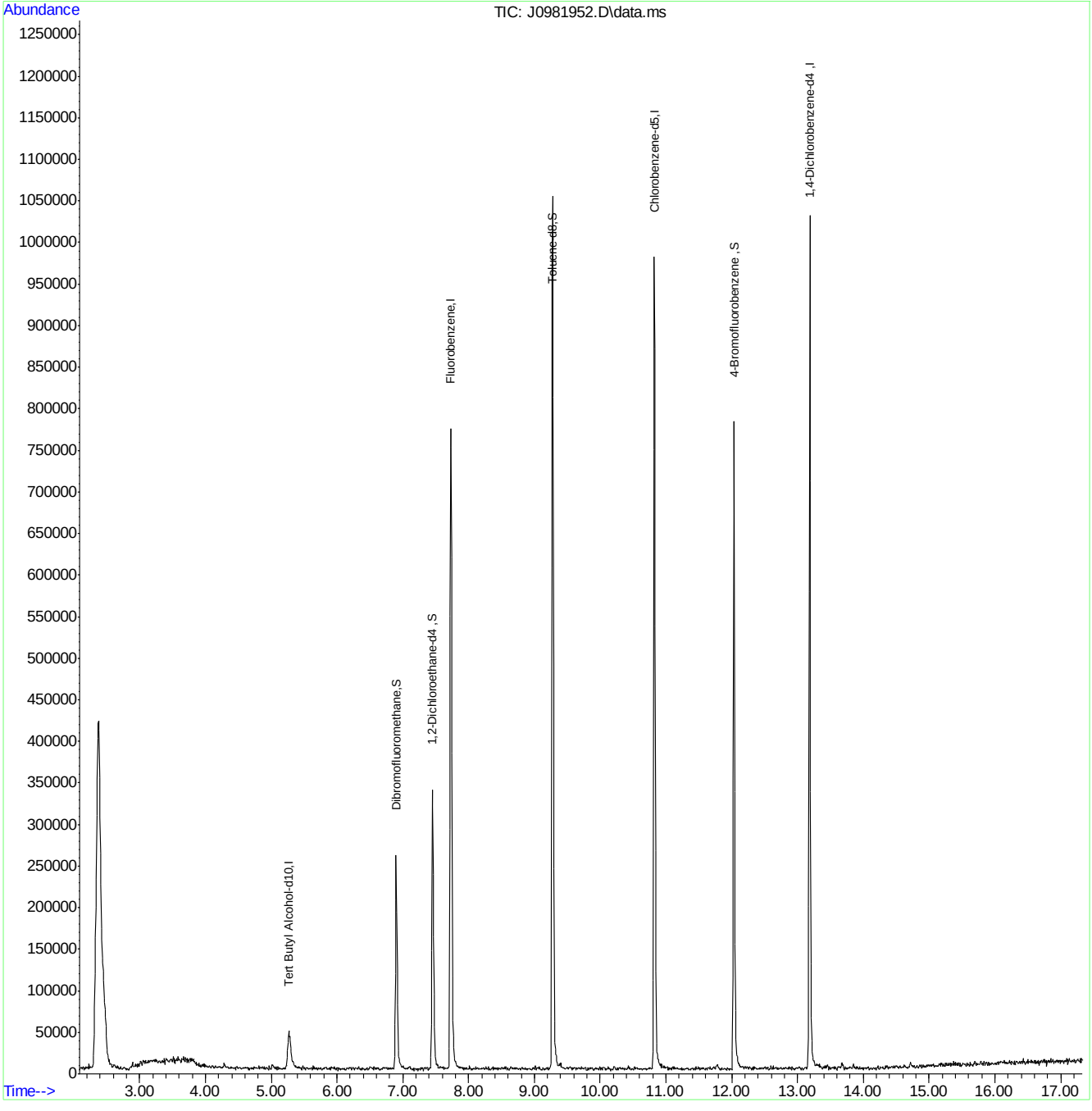
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	641756	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	455162	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	232787	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	81791	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	150418	49.65	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.30%			
46) 1,2-Dichloroethane-d4	7.452	65	223890	54.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.90%			
57) Toluene-d8	9.279	98	613398	50.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.48%			
79) 4-Bromofluorobenzene	12.035	95	245507	52.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.74%			
Target Compounds						Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981952.D
Acq On : 4 Jan 2017 12:13 pm
Operator : darshnap
Sample : fa39907-17 ma Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 04 13:24:31 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



MSJ123016.M Thu Jan 05 08:02:34 2017 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981917.D
Acq On : 3 Jan 2017 10:39 am
Operator : darshnap
Sample : mb Inst : MSVOA6
Misc : MS35987,VJ5530,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 03 12:55:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	721042	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	522072	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	275491	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	98353	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	168427	49.48	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.96%			
46) 1,2-Dichloroethane-d4	7.458	65	246400	53.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.66%			
57) Toluene-d8	9.279	98	690751	49.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.64%			
79) 4-Bromofluorobenzene	12.035	95	283221	51.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.08%			
Target Compounds						Qvalue

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

7.2.1

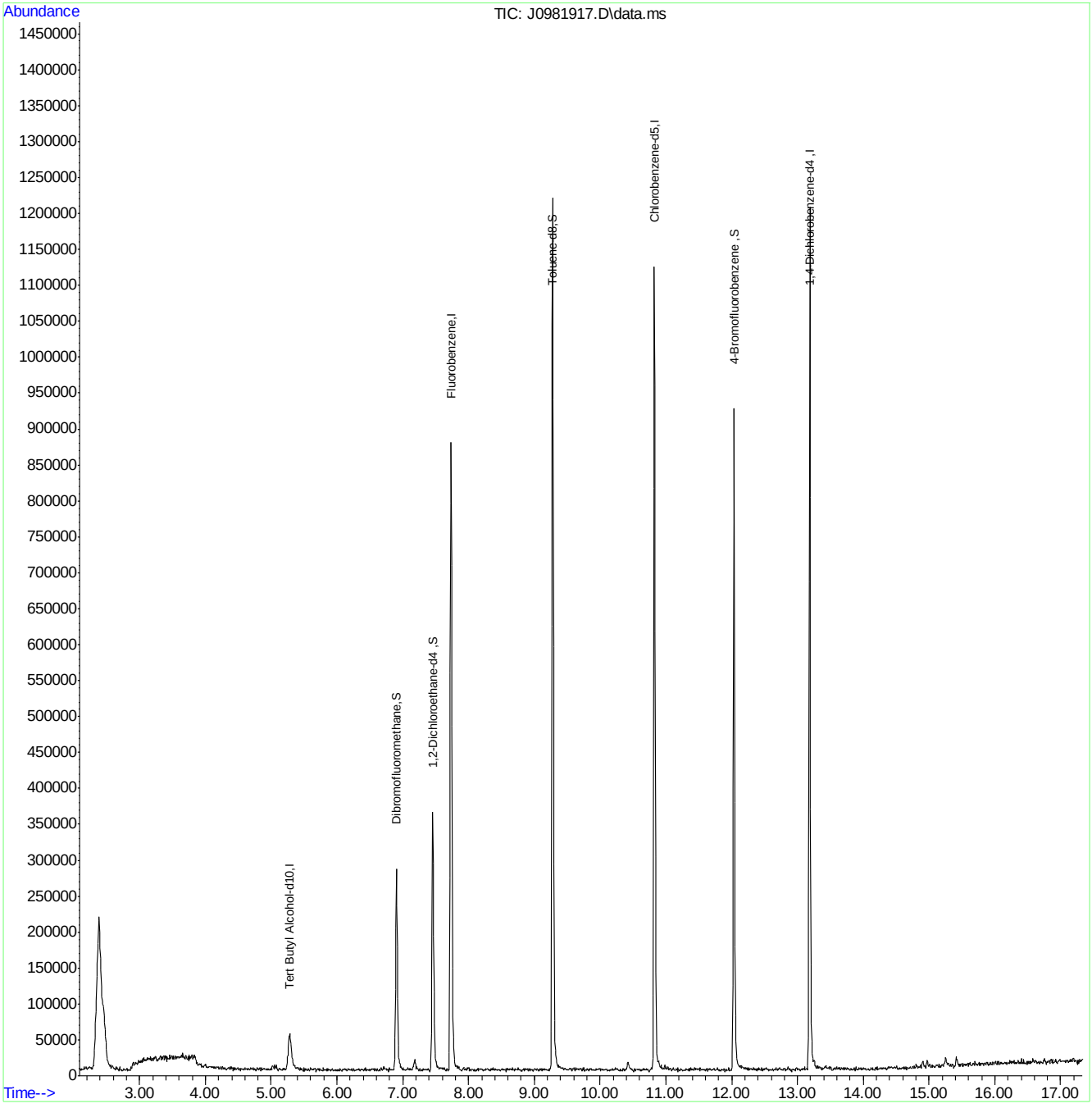
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981917.D
Acq On : 3 Jan 2017 10:39 am
Operator : darshnap
Sample : mb Inst : MSVOA6
Misc : MS35987,VJ5530,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 03 12:55:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981948.D
Acq On : 4 Jan 2017 10:05 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 04 13:22:30 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	689021	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	502430	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	249510	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	91781	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	165157	50.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.56%			
46) 1,2-Dichloroethane-d4	7.452	65	243798	55.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.46%			
57) Toluene-d8	9.279	98	664917	49.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.66%			
79) 4-Bromofluorobenzene	12.035	95	267664	53.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.56%			

Target Compounds Qvalue

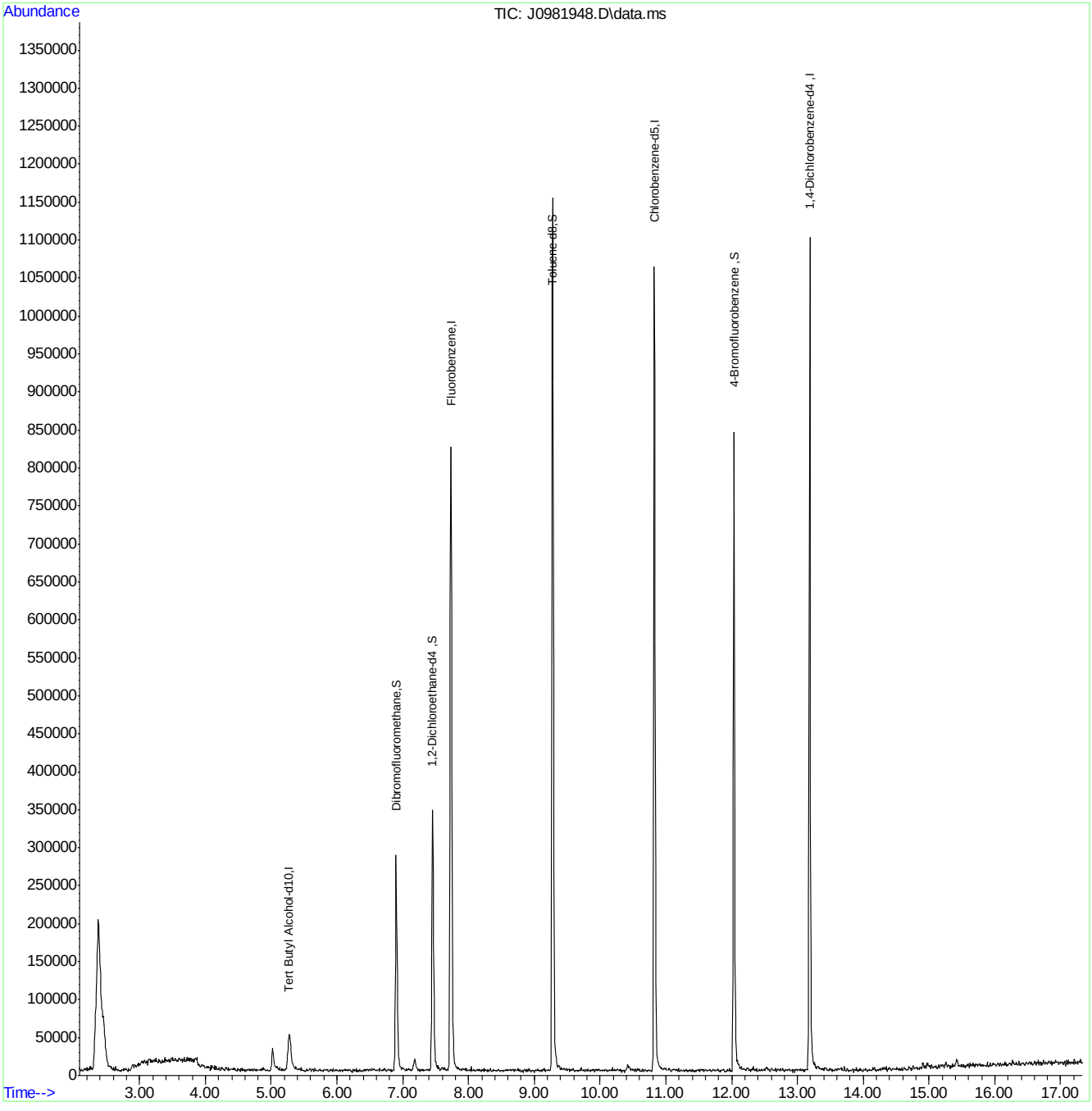
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981948.D
Acq On : 4 Jan 2017 10:05 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 04 13:22:30 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



MSJ123016.M Thu Jan 05 11:12:51 2017 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/04/17 11:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:53 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	739069	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	520457	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	286971	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	90045	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	169877	48.69	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.38%			
46) 1,2-Dichloroethane-d4	7.458	65	242819	51.75	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.50%			
57) Toluene-d8	9.279	98	696929	50.42	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.84%			
79) 4-Bromofluorobenzene	12.035	95	289355	50.55	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	199088	24.77	ug/L	99
3) Chloromethane	2.869	50	261466	22.45	ug/L	95
4) Vinyl Chloride	3.010	62	156395	22.12	ug/L	98
5) 1,3-Butadiene	2.992	54	4457	1.00	ug/L #	81
6) Bromomethane	3.433	94	74907	19.25	ug/L	90
7) Chloroethane	3.586	64	67564	24.53	ug/L	91
8) Trichlorofluoromethane	3.809	101	203880m	23.72	ug/L	
9) Ethyl Ether	4.097	59	158489	25.27	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.326	67	202536	26.12	ug/L	94
11) 1,1-Dichloroethene	4.373	61	299233	27.75	ug/L	92
12) Freon 113	4.438	101	166541	25.39	ug/L	95
13) Carbon Disulfide	4.449	76	560422	24.89	ug/L	94
14) Iodomethane	4.567	142	272455	23.78	ug/L	94
15) Allyl chloride	4.902	41	285477	22.08	ug/L	97
16) Methylene Chloride	5.025	49	300328	26.00	ug/L	95
17) Acetone	5.043	58	110099	185.14	ug/L	91
18) Methyl acetate	5.172	74	129530	138.38	ug/L	95
19) trans-1,2-Dichloroethene	5.207	61	281255	26.85	ug/L	98
20) Hexane	5.266	56	185376	27.44	ug/L	96
21) Methyl Tert Butyl Ether	5.307	73	542478	26.08	ug/L	94
22) Acetonitrile	5.572	40	109577	217.66	ug/L	93
23) Di-isopropyl ether	5.689	45	745658	26.69	ug/L	96
24) Chloroprene	5.848	53	268174	22.26	ug/L	96
25) 1,1-Dichloroethane	5.871	63	355077	28.33	ug/L	95
26) Acrylonitrile	5.901	53	342493	130.85	ug/L	96
27) ETBE	6.089	59	667122	25.88	ug/L	96
28) Vinyl acetate	6.083	43	2104164	124.84	ug/L	100
29) cis-1,2-Dichloroethene	6.447	96	199059	25.72	ug/L	94
30) 2,2-Dichloropropane	6.576	77	301631	28.01	ug/L	99
31) Bromochloromethane	6.665	128	88390	24.90	ug/L	97
32) Cyclohexane	6.712	56	384580	27.34	ug/L	97
33) Chloroform	6.712	83	323772	25.47	ug/L	95
34) Ethyl acetate	6.782	43	854436	132.06	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:53 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.894	42	56411	26.44	ug/L	97
37)	Carbon Tetrachloride	6.911	117	243423m	27.68	ug/L	
38)	1,1,1-Trichloroethane	6.970	97	283361	25.47	ug/L	98
39)	2-Butanone	6.999	43	540290	174.20	ug/L	95
40)	1,1-Dichloropropene	7.082	75	235959	26.24	ug/L	95
41)	tert-Butyl Formate	7.164	59	2129074	288.17	ug/L	97
42)	Propionitrile	7.305	54	218058	225.59	ug/L	88
43)	Methacrylonitrile	7.334	41	989566	232.49	ug/L	97
44)	Benzene	7.328	78	690179	28.35	ug/L	89
45)	TAME	7.411	73	558384	26.55	ug/L	94
47)	1,2-Dichloroethane	7.522	62	268321	27.52	ug/L	96
48)	Trichloroethene	7.910	95	187043	27.12	ug/L	98
49)	Methylcyclohexane	7.934	83	336435	27.25	ug/L	94
50)	Dibromomethane	8.339	93	109697	26.25	ug/L	95
51)	1,2-Dichloropropane	8.421	63	200679	27.36	ug/L	96
52)	Bromodichloromethane	8.474	83	238770	26.11	ug/L	97
53)	Methyl methacrylate	8.568	41	165629	24.17	ug/L	93
54)	2-Chloroethyl vinyl ether	8.985	63	587482	134.96	ug/L	98
55)	cis-1,3-Dichloropropene	9.085	75	298765	26.64	ug/L	99
58)	Toluene	9.332	91	751999	29.16	ug/L	98
59)	2-Nitropropane	9.532	41	230005	135.24	ug/L	96
60)	4-Methyl-2-pentanone	9.649	43	1024469	143.66	ug/L	99
61)	trans-1,3-Dichloropropene	9.714	75	272789	28.81	ug/L	97
62)	Tetrachloroethene	9.732	166	203550	25.92	ug/L	97
63)	Ethyl methacrylate	9.820	69	196879	21.98	ug/L	99
64)	1,1,2-Trichloroethane	9.878	83	134007	28.08	ug/L	94
65)	Dibromochloromethane	10.078	129	173088	27.05	ug/L	98
66)	1,3-Dichloropropane	10.160	76	277801	26.30	ug/L	96
67)	1,2-Dibromoethane	10.337	107	163615	27.48	ug/L	99
68)	2-hexanone	10.466	43	729286	155.80	ug/L	97
69)	1-Chlorohexane	10.772	91	264292	27.59	ug/L	97
70)	Ethylbenzene	10.842	91	830851	28.73	ug/L	97
71)	Chlorobenzene	10.842	112	464989	26.21	ug/L	93
72)	1,1,1,2-Tetrachloroethane	10.895	131	170328	24.76	ug/L	93
73)	m,p-Xylene	10.977	91	1307047	53.37	ug/L	100
74)	o-Xylene	11.418	91	711532	26.83	ug/L	98
75)	Styrene	11.465	104	533707	26.96	ug/L	98
76)	Bromoform	11.524	173	109520	24.40	ug/L	97
77)	Isopropylbenzene	11.723	105	831416	26.91	ug/L	99
80)	cis-1,4-Dichloro-2-butene	12.064	53	52432	22.81	ug/L	92
81)	n-Propylbenzene	12.141	91	1039048	27.28	ug/L	96
82)	Bromobenzene	12.164	156	215778	27.17	ug/L	96
83)	1,1,2,2-Tetrachloroethane	12.199	83	213400	25.63	ug/L	99
84)	1,3,5-Trimethylbenzene	12.323	105	711180	28.16	ug/L	98
85)	2-Chlorotoluene	12.329	91	699613	26.99	ug/L	98
86)	trans-1,4-Dichloro-2-B...	12.381	53	61462	24.28	ug/L	92
87)	1,2,3-Trichloropropane	12.364	110	57914	26.94	ug/L	88
88)	Cyclohexanone	12.428	55	44753	135.33	ug/L	85
89)	4-Chlorotoluene	12.493	91	661930	26.76	ug/L	98
91)	tert-Butylbenzene	12.663	91	432085	26.25	ug/L	95

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:53 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.734	105	718860	28.74	ug/L		96
93)	Pentachloroethane	12.716	167	85530	17.45	ug/L		98
94)	sec-Butylbenzene	12.846	105	952997	27.82	ug/L		94
95)	4-Isopropyltoluene	12.981	119	791051	29.30	ug/L		95
96)	1,3-Dichlorobenzene	13.116	146	413264	25.55	ug/L		93
97)	1,4-Dichlorobenzene	13.204	146	419625	25.00	ug/L		97
98)	n-Butylbenzene	13.416	92	470237	28.55	ug/L		90
99)	Benzyl Chloride	13.427	126	77192	22.64	ug/L	#	52
100)	1,2-Dichlorobenzene	13.627	146	407553	25.02	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	14.361	75	40948	24.85	ug/L		92
102)	Hexachlorobutadiene	14.908	225	169284	24.65	ug/L		96
103)	1,2,4-Trichlorobenzene	14.955	180	303796	26.30	ug/L		98
104)	Naphthalene	15.237	128	689880	29.54	ug/L		100
105)	1,2,3-Trichlorobenzene	15.407	180	281165	25.88	ug/L		97
107)	Ethanol	4.273	45	39865m	584.24	ug/L		
108)	acrolein	4.731	56	186748	149.19	ug/L		95
109)	Tert Butyl Alcohol	5.354	59	195098	261.83	ug/L		93
110)	tert Amyl alcohol	7.552	59	153020	258.29	ug/L		97
111)	Isobutyl alcohol	7.428	42	114213	477.26	ug/L	#	84
112)	1,4-Dioxane	8.650	88	32175	511.07	ug/L		91
113)	3,3-Dimethyl-1-butanol	10.413	57	880267	1431.49	ug/L		97

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

7.3.1

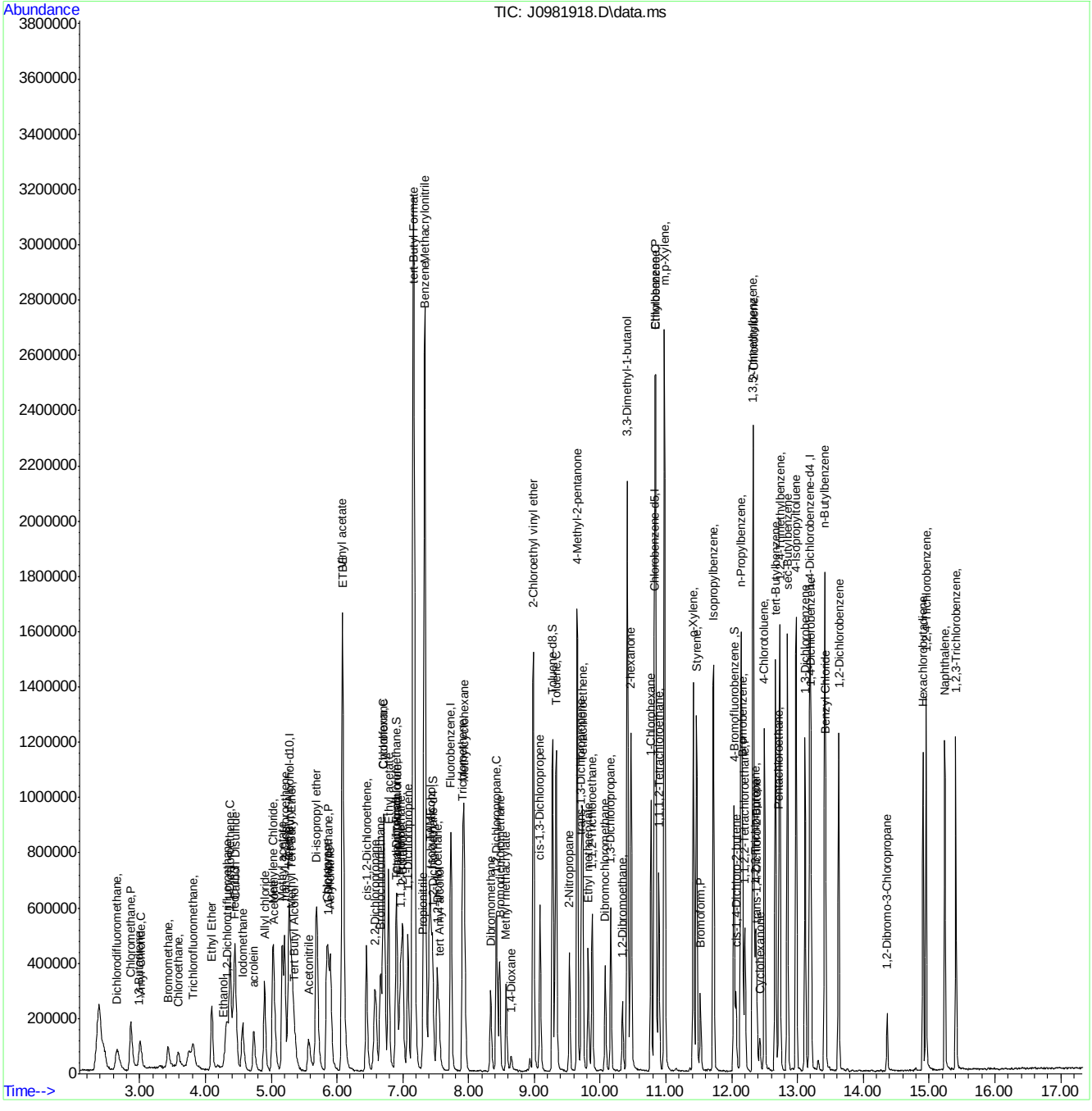
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:53 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

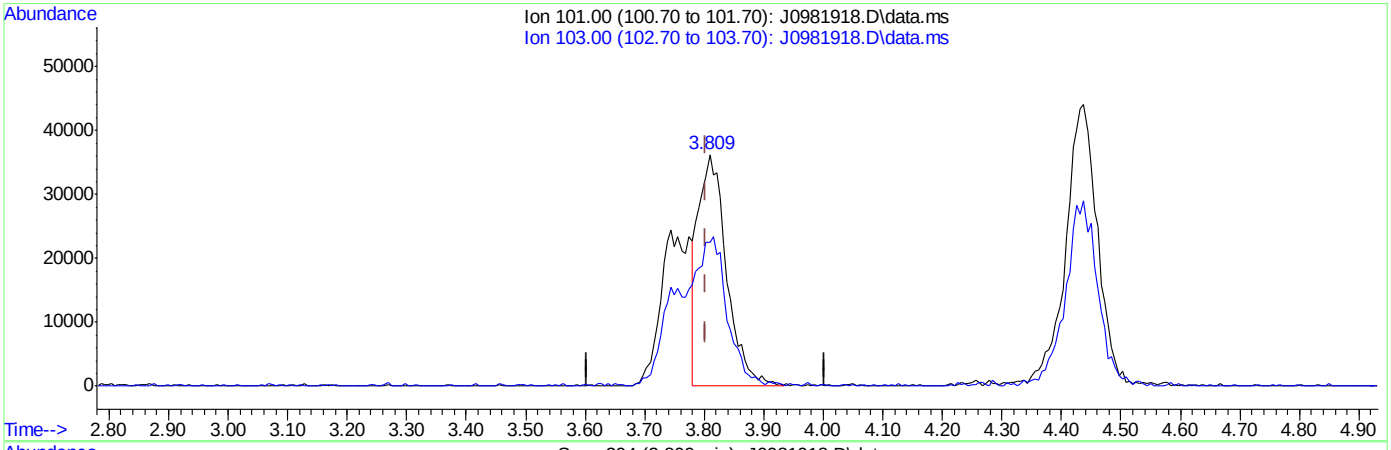
Sample Number:	VJ5531-BS	**Method:**	SW846 8260C
Lab FileID:	J0981918.D	**Analyst approved:**	01/04/17 10:37 Darshna Patel
Injection Time:	01/03/17 11:15	**Supervisor approved:**	01/04/17 11:21 Juan Garcia

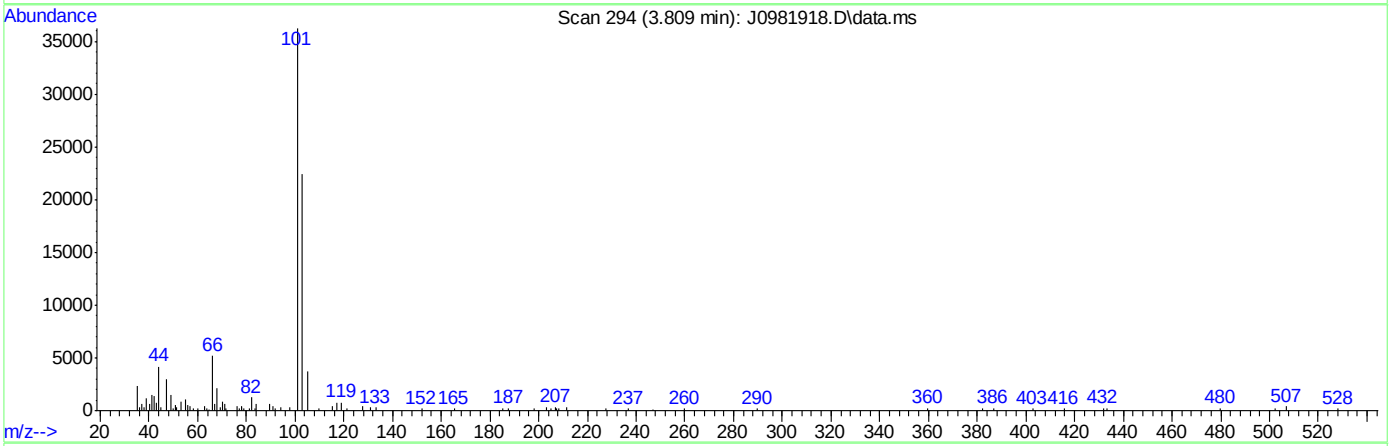
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 13.93ug/L

response 119759

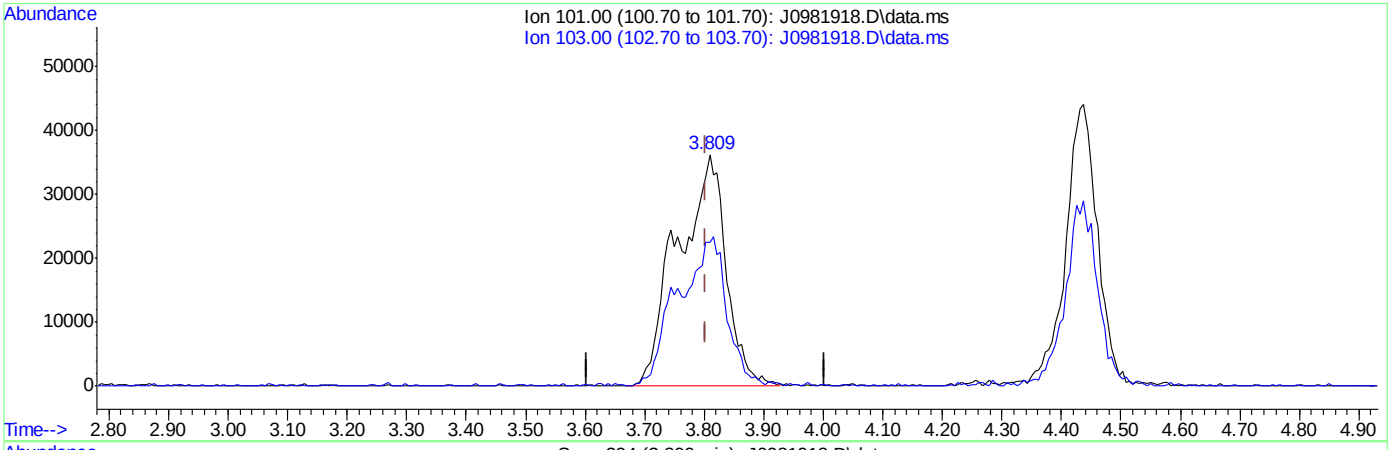
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	61.51
0.00	0.00	0.00
0.00	0.00	0.00

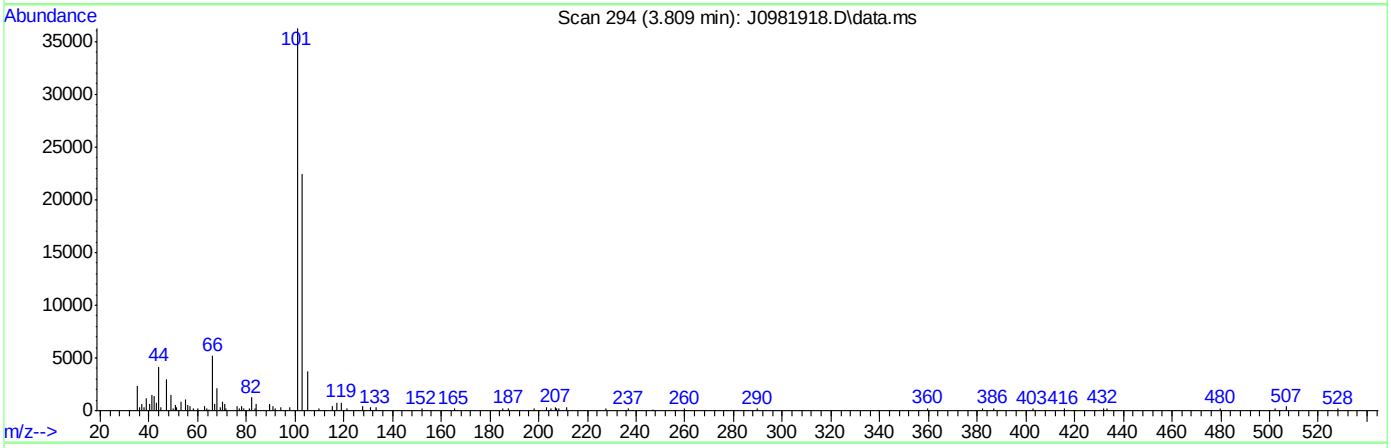
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 23.72ug/L m

response 203880

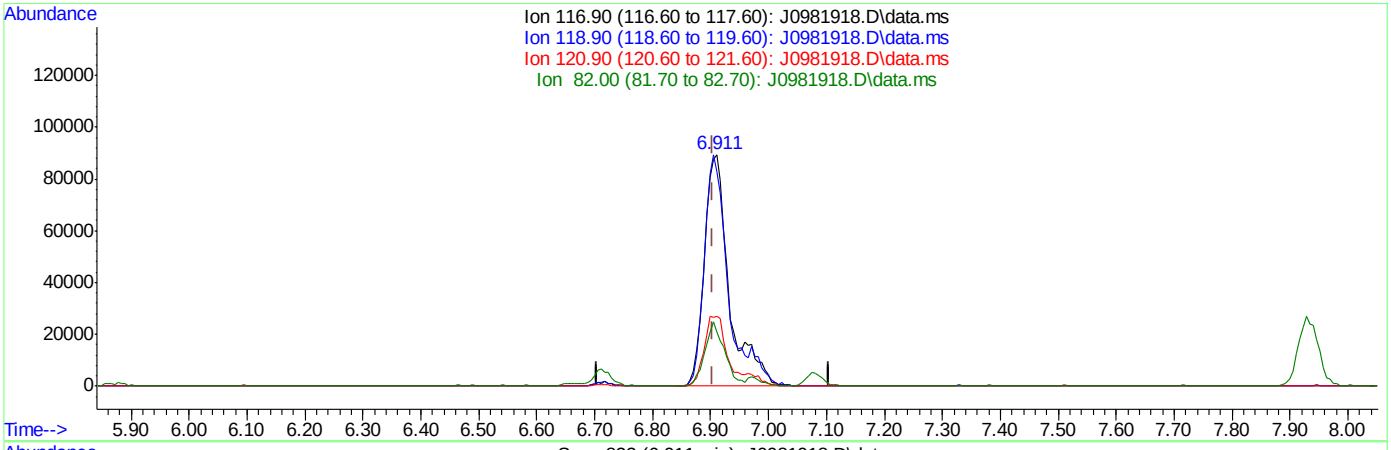
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	62.02
0.00	0.00	0.00
0.00	0.00	0.00

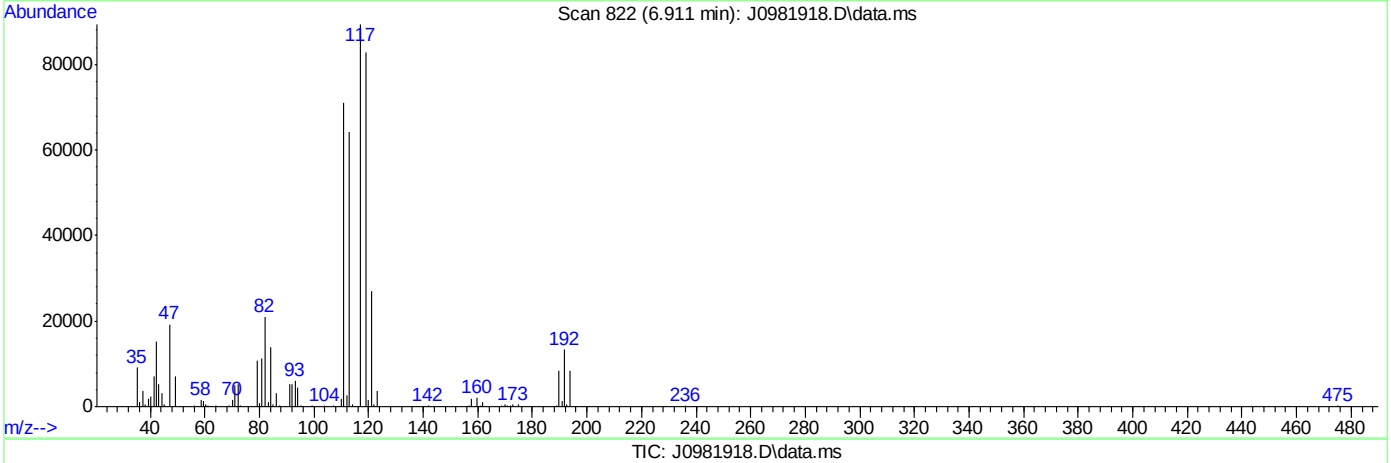
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 30.78ug/L

response 270707

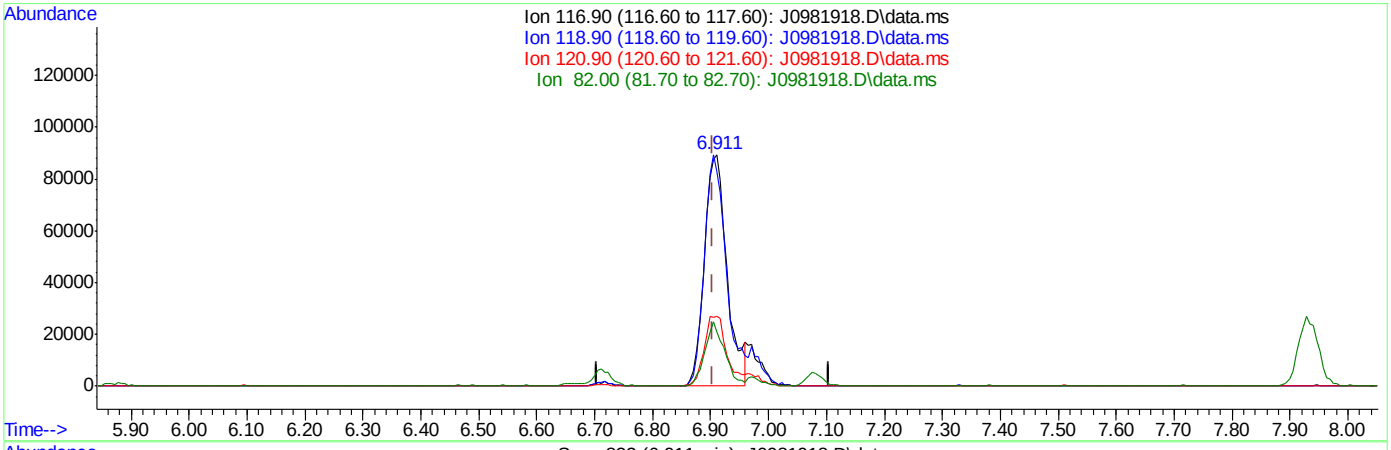
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	92.54
120.90	30.80	30.33
82.00	23.30	23.42

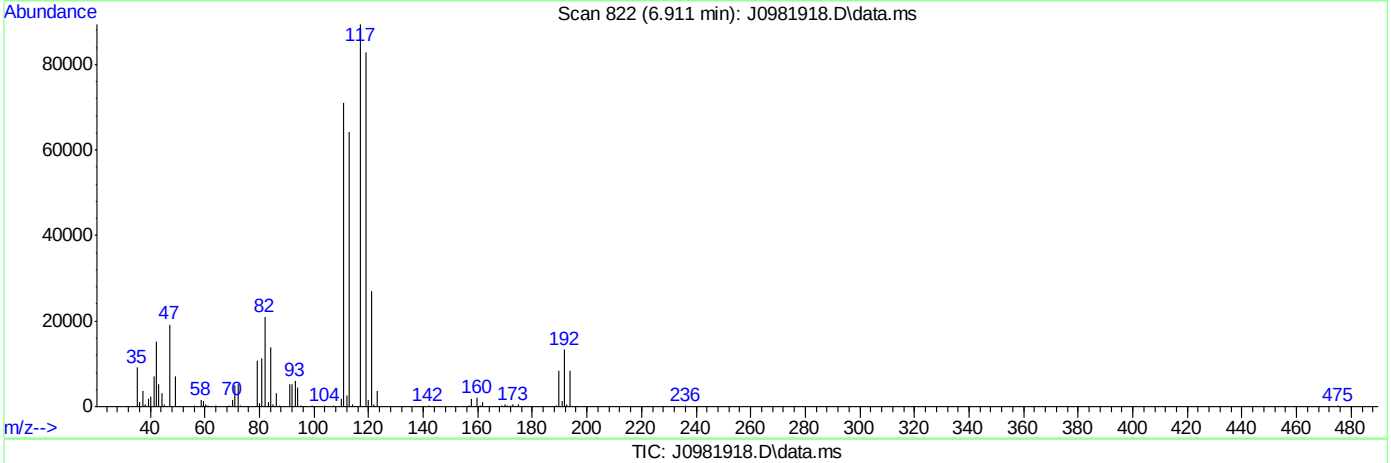
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 27.68ug/L m

response 243423

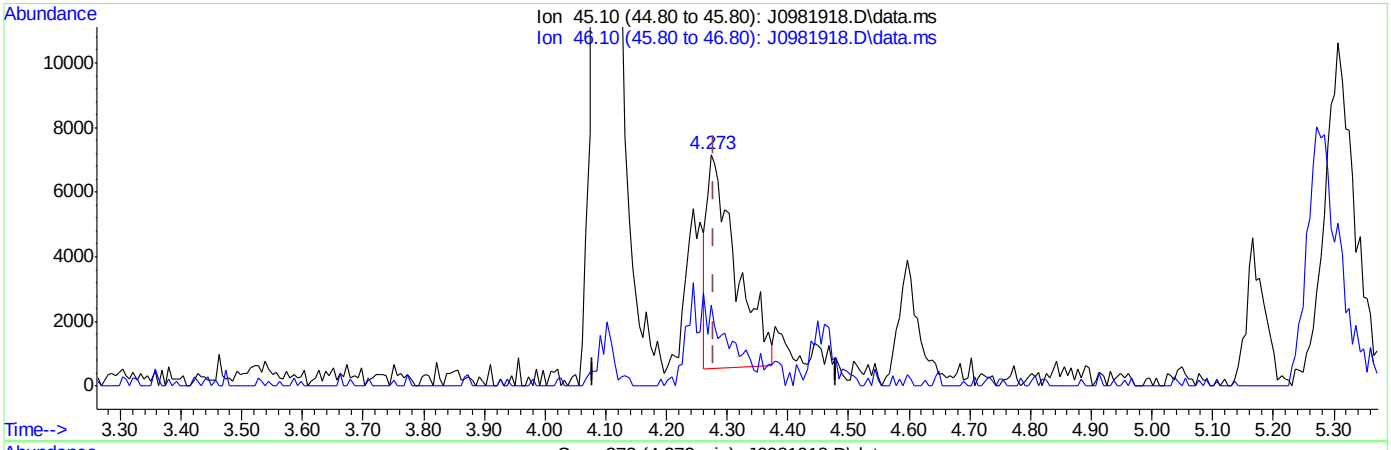
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	92.54
120.90	30.80	30.33
82.00	23.30	23.42

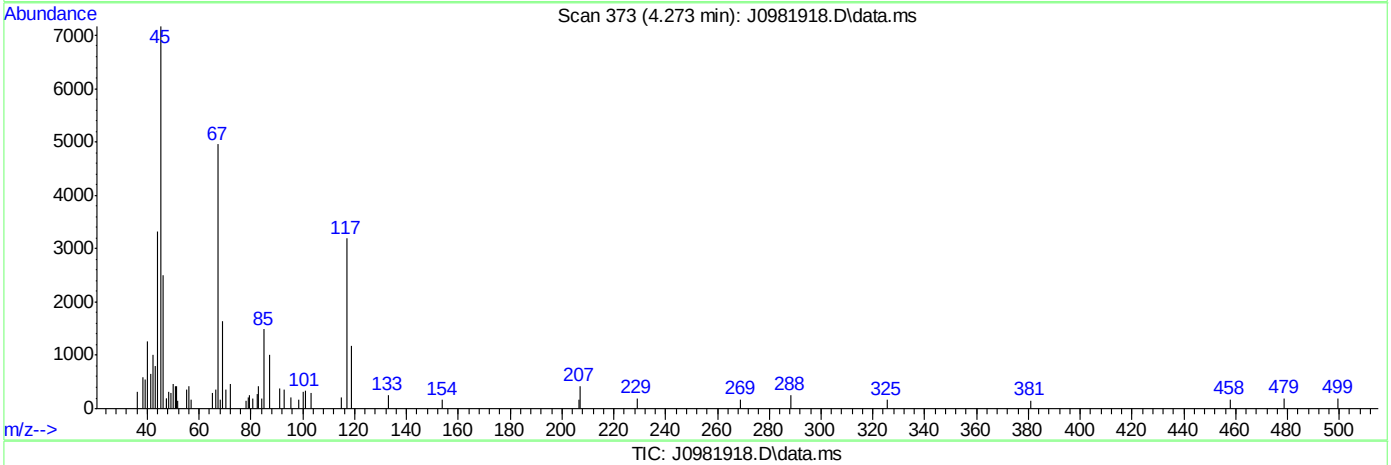
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(107) Ethanol

4.273min (-0.006) 317.67ug/L

response 21673

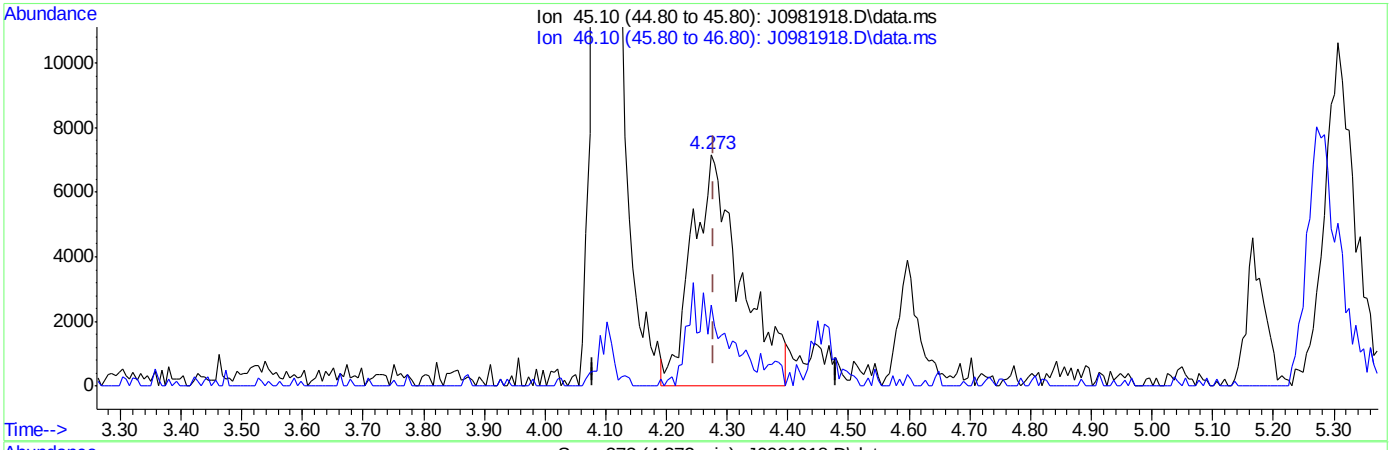
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	30.77
0.00	0.00	0.00
0.00	0.00	0.00

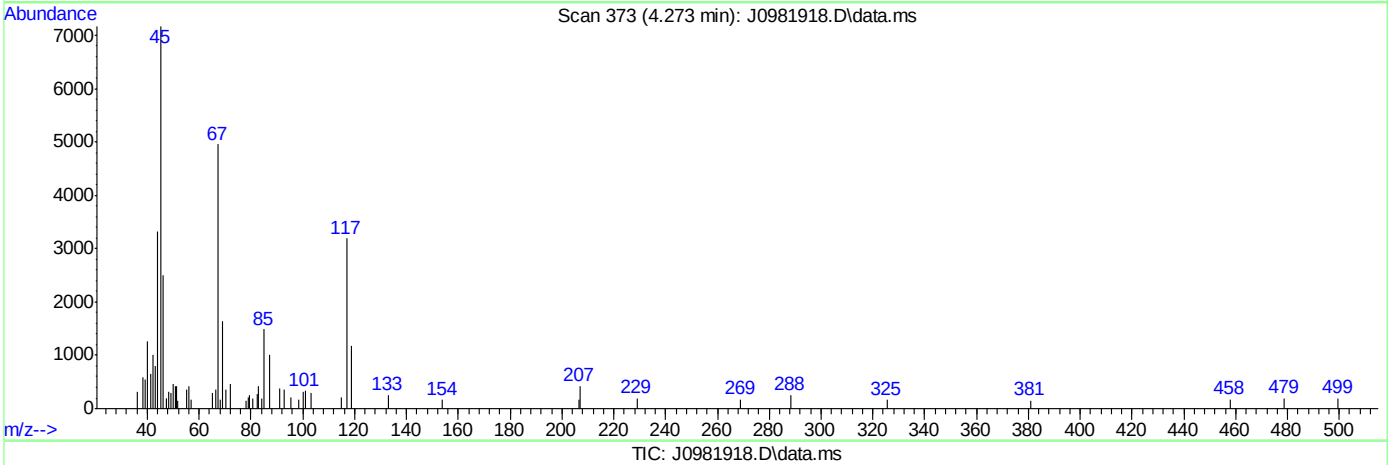
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981918.D
Acq On : 3 Jan 2017 11:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 11:35:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981918.D\data.ms

(107) Ethanol

4.273min (-0.006) 584.24ug/L m

response 39865

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	34.81
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
01/05/17 11:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:03:20 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	699585	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	499595	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	259936	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	90150	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	163162	49.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.82%			
46) 1,2-Dichloroethane-d4	7.458	65	240076	54.05	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.10%			
57) Toluene-d8	9.279	98	658842	49.66	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.32%			
79) 4-Bromofluorobenzene	12.035	95	281124	54.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.663	85	187132	24.59	ug/L	97
3) Chloromethane	2.857	50	242924	22.04	ug/L	88
4) Vinyl Chloride	3.010	62	165479	24.72	ug/L	97
5) 1,3-Butadiene	3.004	54	16674	3.94	ug/L #	48
6) Bromomethane	3.439	94	80840	22.05	ug/L	87
7) Chloroethane	3.586	64	73171	28.34	ug/L	89
8) Trichlorofluoromethane	3.815	101	212616m	26.13	ug/L	
9) Ethyl Ether	4.097	59	163531	27.55	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.326	67	200734	27.35	ug/L	94
11) 1,1-Dichloroethene	4.379	61	302944	29.68	ug/L	96
12) Freon 113	4.438	101	156739	25.24	ug/L	95
13) Carbon Disulfide	4.455	76	542580	25.46	ug/L	99
14) Iodomethane	4.561	142	252439	23.28	ug/L	95
15) Allyl chloride	4.902	41	328414	26.84	ug/L	95
16) Methylene Chloride	5.025	49	312312	28.64	ug/L	96
17) Acetone	5.043	58	101108	179.61	ug/L #	70
18) Methyl acetate	5.172	74	124883	140.94	ug/L	96
19) trans-1,2-Dichloroethene	5.207	61	290306	29.28	ug/L	95
20) Hexane	5.278	56	183496	28.69	ug/L #	84
21) Methyl Tert Butyl Ether	5.307	73	521779	26.50	ug/L	81
22) Acetonitrile	5.572	40	125374	264.80	ug/L #	83
23) Di-isopropyl ether	5.689	45	756933	28.62	ug/L	97
24) Chloroprene	5.848	53	298975	26.23	ug/L	96
25) 1,1-Dichloroethane	5.871	63	354842	29.91	ug/L	92
26) Acrylonitrile	5.901	53	337974	136.41	ug/L	97
27) ETBE	6.089	59	631556	25.88	ug/L	97
28) Vinyl acetate	6.083	43	2141447	135.10	ug/L	100
29) cis-1,2-Dichloroethene	6.453	96	191121	26.09	ug/L	97
30) 2,2-Dichloropropane	6.582	77	285099	27.97	ug/L	100
31) Bromochloromethane	6.659	128	83070	24.73	ug/L #	84
32) Cyclohexane	6.712	56	361339	27.14	ug/L	97
33) Chloroform	6.712	83	318444	26.46	ug/L	95
34) Ethyl acetate	6.782	43	856410	139.84	ug/L	99

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:03:20 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.894	42	57500	28.48	ug/L	90
37)	Carbon Tetrachloride	6.911	117	222869m	26.77	ug/L	
38)	1,1,1-Trichloroethane	6.970	97	270808	25.72	ug/L	99
39)	2-Butanone	6.999	43	491931	167.56	ug/L	95
40)	1,1-Dichloropropene	7.082	75	238765	28.05	ug/L	96
41)	tert-Butyl Formate	7.164	59	1810157	258.83	ug/L	95
42)	Propionitrile	7.305	54	257158	281.06	ug/L	89
43)	Methacrylonitrile	7.334	41	1143538	288.39	ug/L	98
44)	Benzene	7.334	78	668711	29.95	ug/L	95
45)	TAME	7.411	73	535896	26.92	ug/L	95
47)	1,2-Dichloroethane	7.522	62	262924	28.49	ug/L	98
48)	Trichloroethene	7.910	95	180811	27.69	ug/L	97
49)	Methylcyclohexane	7.934	83	321556	27.51	ug/L	92
50)	Dibromomethane	8.339	93	109213	27.61	ug/L	94
51)	1,2-Dichloropropane	8.421	63	195624	28.18	ug/L	97
52)	Bromodichloromethane	8.474	83	227982	26.33	ug/L	96
53)	Methyl methacrylate	8.568	41	181047	28.00	ug/L	96
54)	2-Chloroethyl vinyl ether	8.985	63	574230	139.37	ug/L	99
55)	cis-1,3-Dichloropropene	9.085	75	291465	27.45	ug/L	96
58)	Toluene	9.332	91	709517	28.66	ug/L	99
59)	2-Nitropropane	9.532	41	222870	136.52	ug/L	99
60)	4-Methyl-2-pentanone	9.649	43	959809	140.01	ug/L	96
61)	trans-1,3-Dichloropropene	9.714	75	264185	29.07	ug/L	93
62)	Tetrachloroethene	9.737	166	173348	22.99	ug/L	97
63)	Ethyl methacrylate	9.820	69	214889	24.99	ug/L	94
64)	1,1,2-Trichloroethane	9.878	83	133331	29.11	ug/L	92
65)	Dibromochloromethane	10.078	129	157745	25.68	ug/L	93
66)	1,3-Dichloropropane	10.160	76	274228	27.04	ug/L	94
67)	1,2-Dibromoethane	10.337	107	155614	27.23	ug/L	96
68)	2-hexanone	10.466	43	706447	157.22	ug/L	96
69)	1-Chlorohexane	10.777	91	254827	27.71	ug/L	98
70)	Ethylbenzene	10.842	91	800256	28.82	ug/L	99
71)	Chlorobenzene	10.842	112	438744	25.76	ug/L	93
72)	1,1,1,2-Tetrachloroethane	10.889	131	156817	24.98	ug/L	97
73)	m,p-Xylene	10.977	91	1271203	54.13	ug/L	99
74)	o-Xylene	11.418	91	691092	27.15	ug/L	97
75)	Styrene	11.465	104	504033	28.66	ug/L	96
76)	Bromoform	11.529	173	96820	22.47	ug/L	98
77)	Isopropylbenzene	11.723	105	812336	27.39	ug/L	96
80)	cis-1,4-Dichloro-2-butene	12.064	53	50628	24.31	ug/L	91
81)	n-Propylbenzene	12.141	91	988322	28.64	ug/L	95
82)	Bromobenzene	12.164	156	200226	27.84	ug/L	99
83)	1,1,2,2-Tetrachloroethane	12.199	83	202882	26.90	ug/L	98
84)	1,3,5-Trimethylbenzene	12.323	105	677360	29.61	ug/L	99
85)	2-Chlorotoluene	12.329	91	671237	28.59	ug/L	97
86)	trans-1,4-Dichloro-2-B...	12.381	53	54987	23.98	ug/L	94
87)	1,2,3-Trichloropropane	12.364	110	57884	29.73	ug/L	90
88)	Cyclohexanone	12.423	55	47850	160.16	ug/L	90
89)	4-Chlorotoluene	12.499	91	633555	28.28	ug/L	99
90)	a-Methyl Styrene	12.663	118	7198	0.50	ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:03:20 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.663	91	418846	28.09	ug/L		93
92)	1,2,4-Trimethylbenzene	12.734	105	679269	29.98	ug/L		95
93)	Pentachloroethane	12.716	167	100147	22.56	ug/L		96
94)	sec-Butylbenzene	12.846	105	913307	29.43	ug/L		96
95)	4-Isopropyltoluene	12.981	119	751331	30.72	ug/L		94
96)	1,3-Dichlorobenzene	13.116	146	391066	26.69	ug/L		97
97)	1,4-Dichlorobenzene	13.198	146	386424	25.41	ug/L		96
98)	n-Butylbenzene	13.410	92	455110	30.50	ug/L		99
99)	Benzyl Chloride	13.427	126	70468	22.82	ug/L	#	45
100)	1,2-Dichlorobenzene	13.627	146	379462	25.72	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.362	75	39740	26.62	ug/L		80
102)	Hexachlorobutadiene	14.908	225	147062	23.64	ug/L		98
103)	1,2,4-Trichlorobenzene	14.955	180	271644	25.96	ug/L		96
104)	Naphthalene	15.237	128	633126	31.27	ug/L		97
105)	1,2,3-Trichlorobenzene	15.407	180	252199	25.97	ug/L		96
107)	Ethanol	4.250	45	41922m	613.66	ug/L		
108)	acrolein	4.737	56	188211	150.18	ug/L		92
109)	Tert Butyl Alcohol	5.348	59	185158	242.40	ug/L		81
110)	tert Amyl alcohol	7.552	59	140358	236.65	ug/L		98
111)	Isobutyl alcohol	7.428	42	123434	515.19	ug/L	#	75
112)	1,4-Dioxane	8.650	88	30809	488.81	ug/L		90
113)	3,3-Dimethyl-1-butanol	10.413	57	746173	1212.01	ug/L		97

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

7.3.2

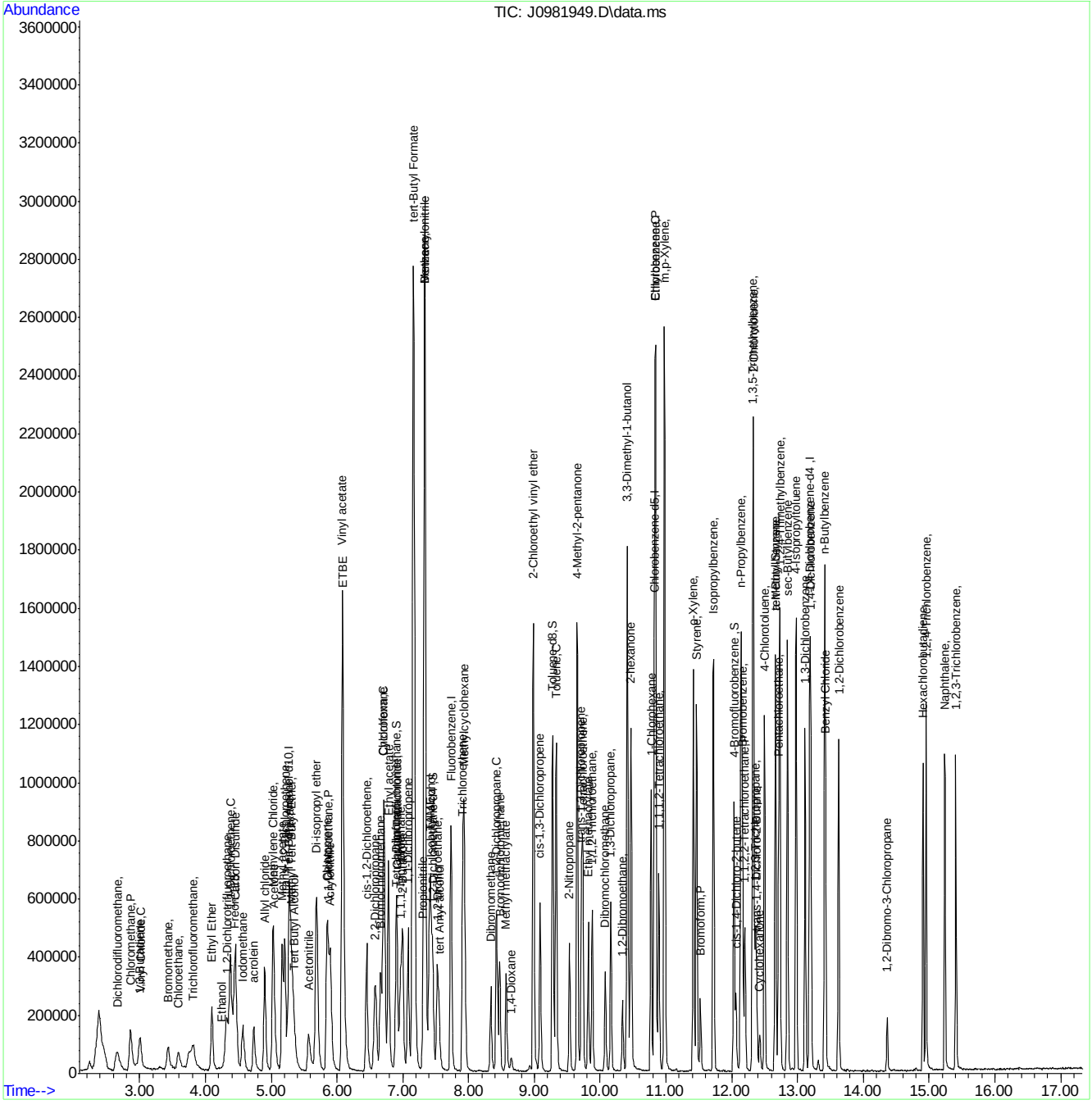
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:03:20 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

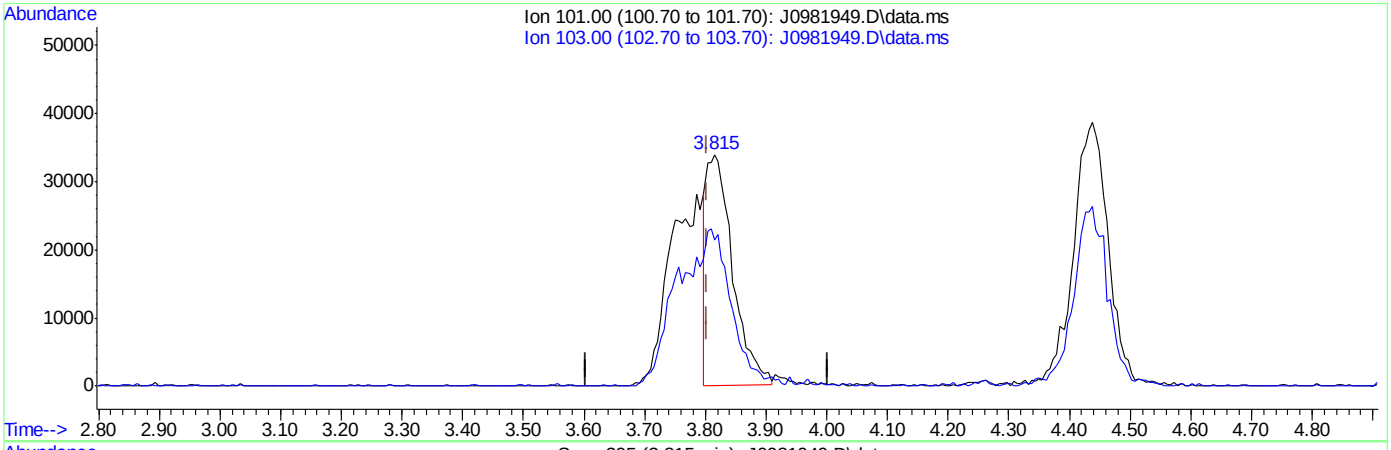
Sample Number:	VJ5532-BS	**Method:**	SW846 8260C
Lab FileID:	J0981949.D	**Analyst approved:**	01/05/17 11:13 Darshna Patel
Injection Time:	01/04/17 10:45	**Supervisor approved:**	01/05/17 11:16 Melissa Mangual

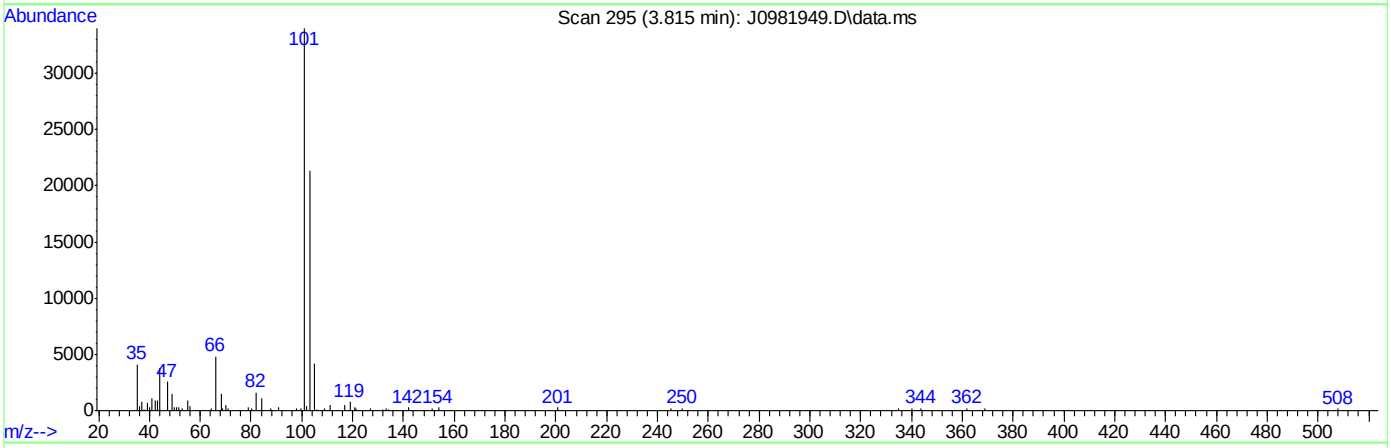
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.25	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.815min (+0.012) 12.32ug/L

response 100246

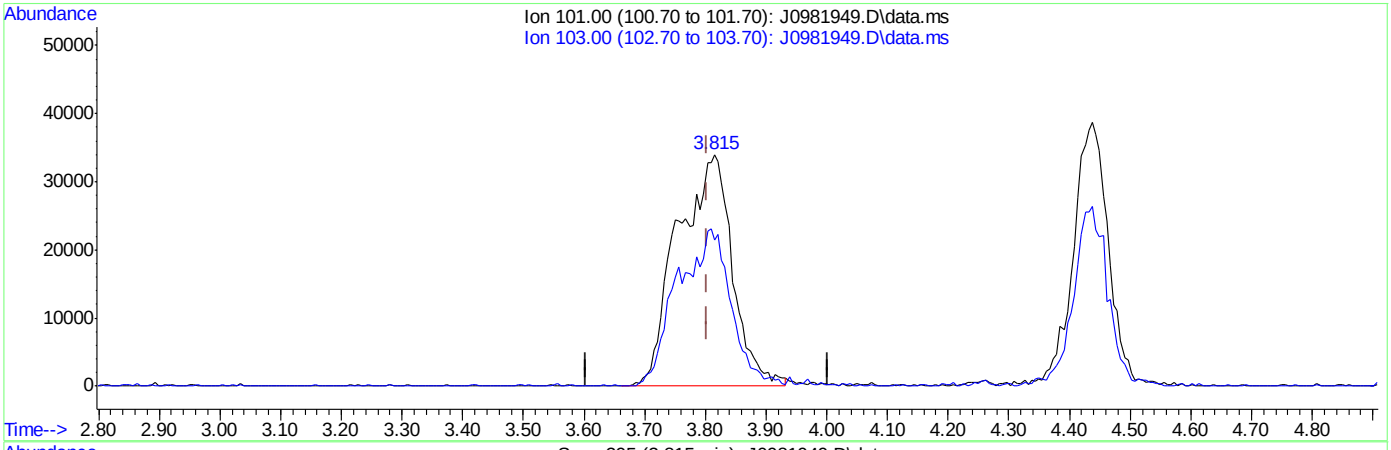
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	60.18
0.00	0.00	0.00
0.00	0.00	0.00

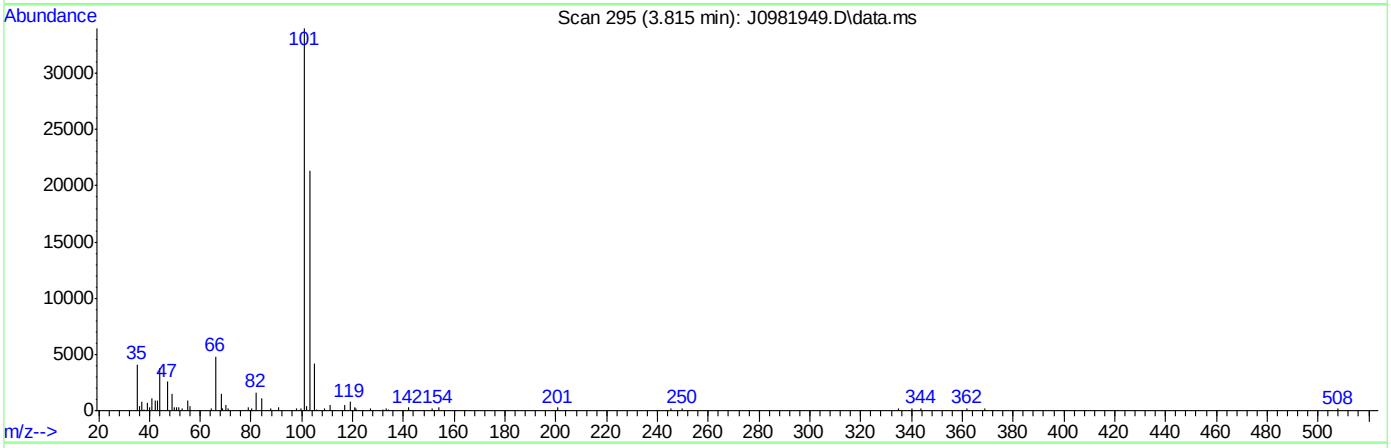
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.815min (+0.012) 26.13ug/L m

response 212616

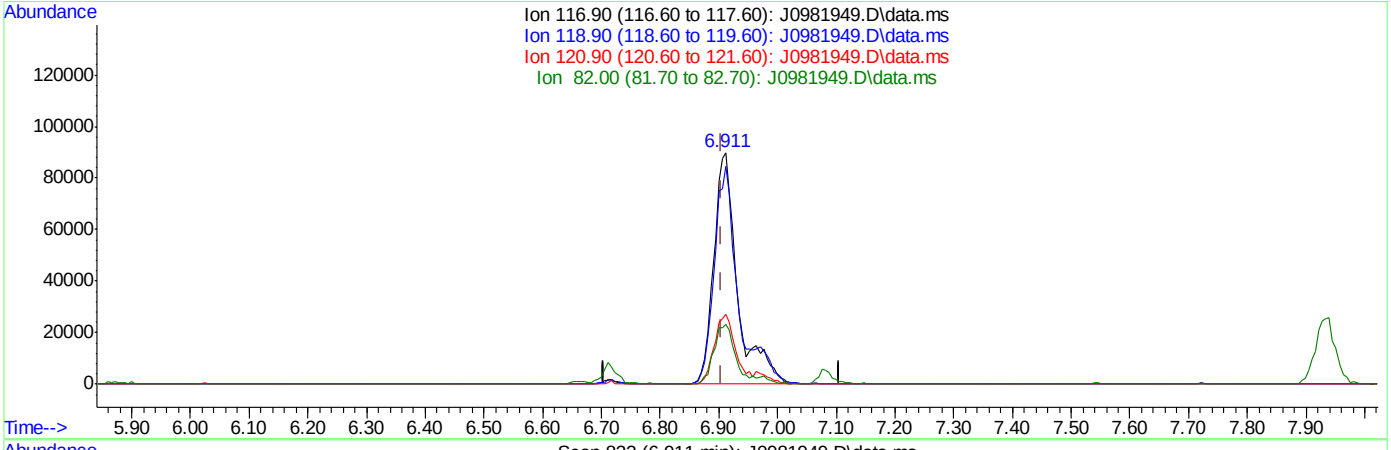
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	62.85
0.00	0.00	0.00
0.00	0.00	0.00

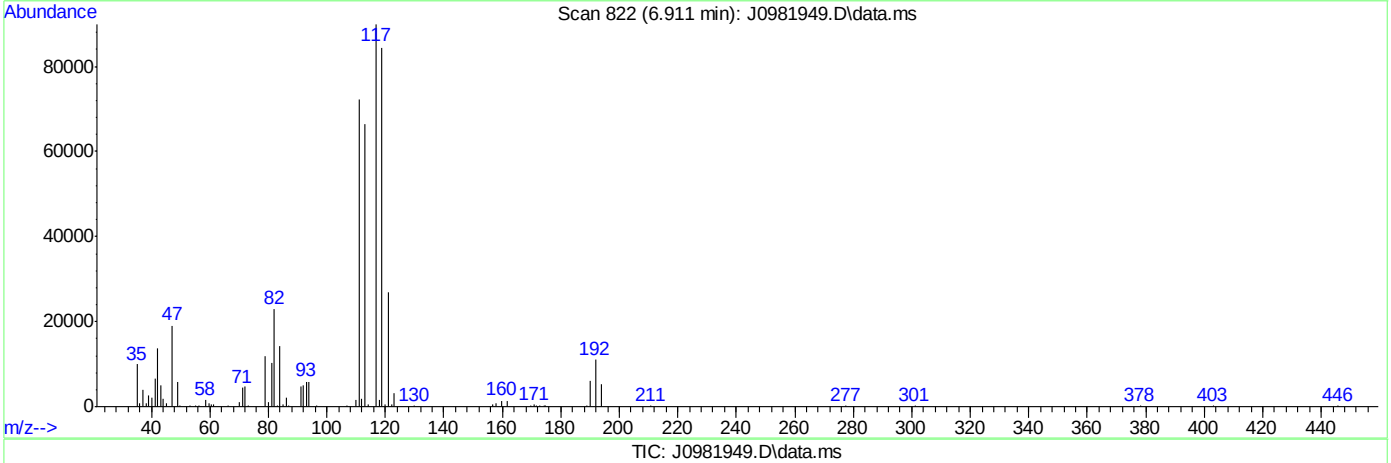
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981949.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 30.42ug/L

response 253251

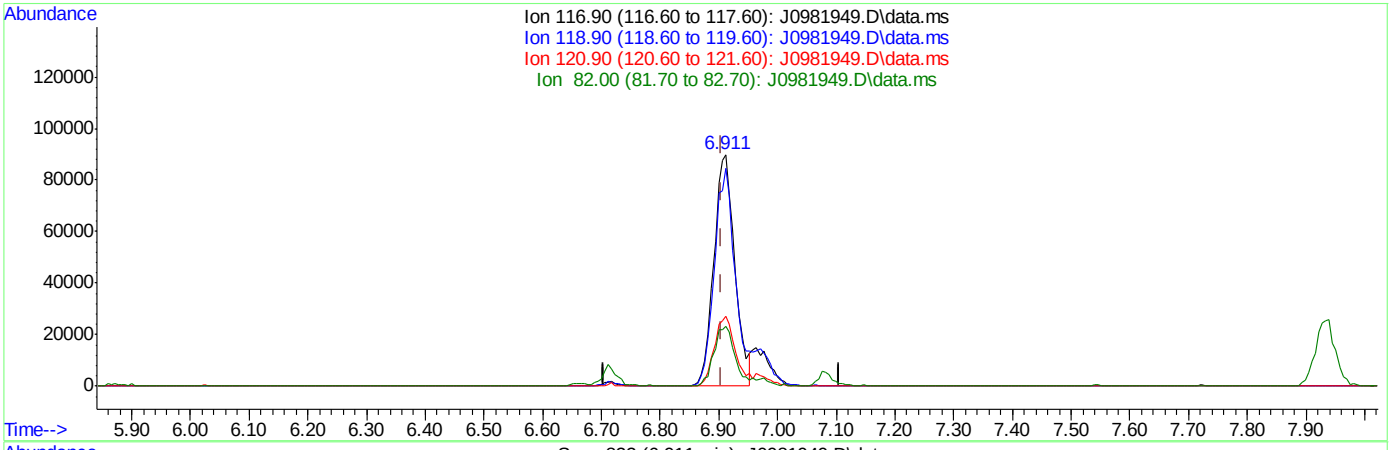
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	93.98
120.90	30.80	30.02
82.00	23.30	25.65

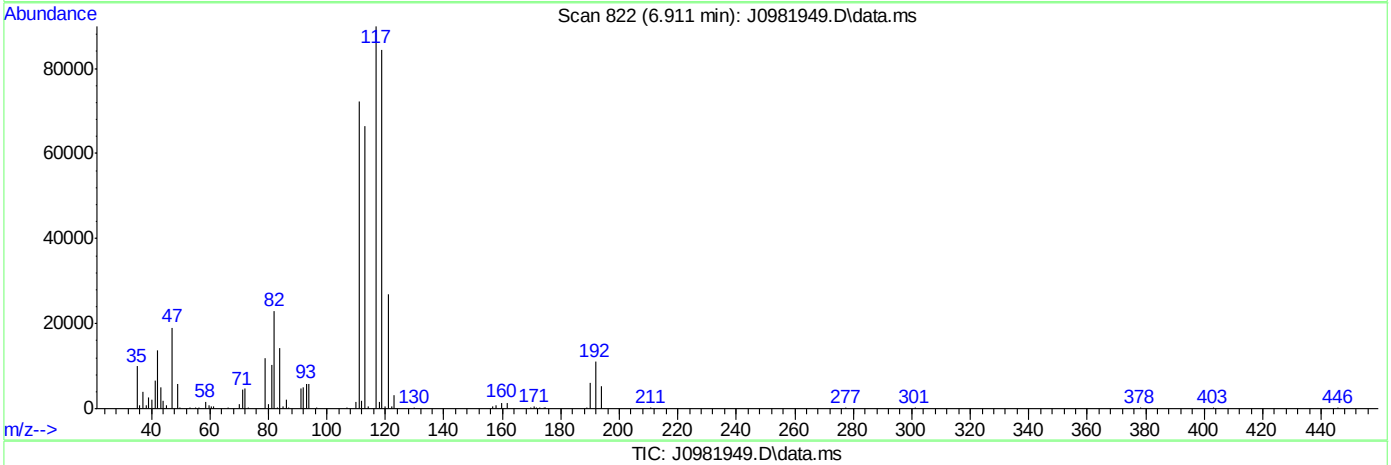
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.911min (+0.006) 26.77ug/L m

response 222869

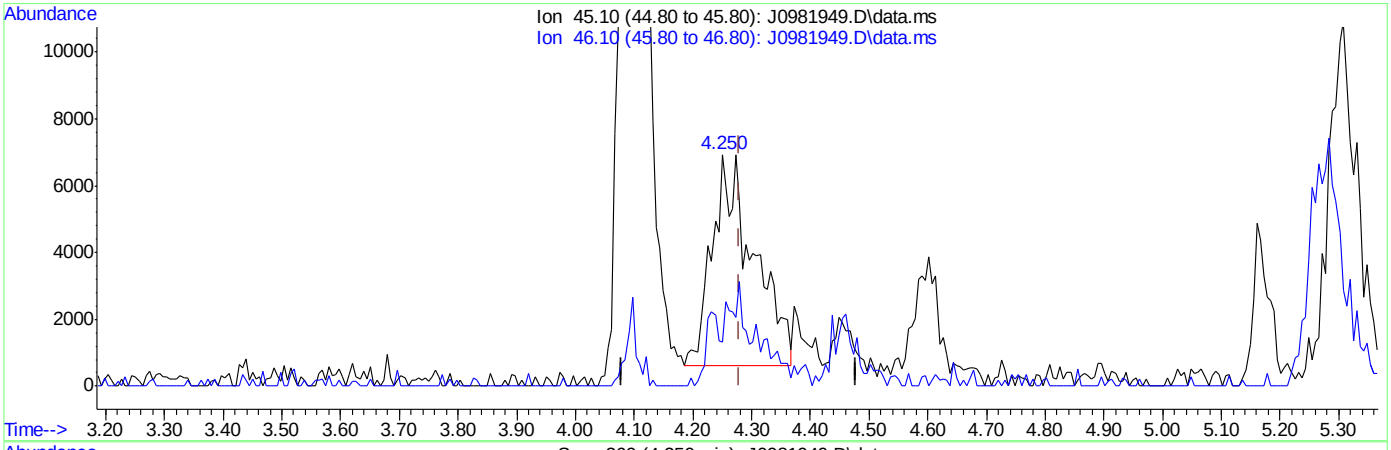
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	93.98
120.90	30.80	30.02
82.00	23.30	25.65

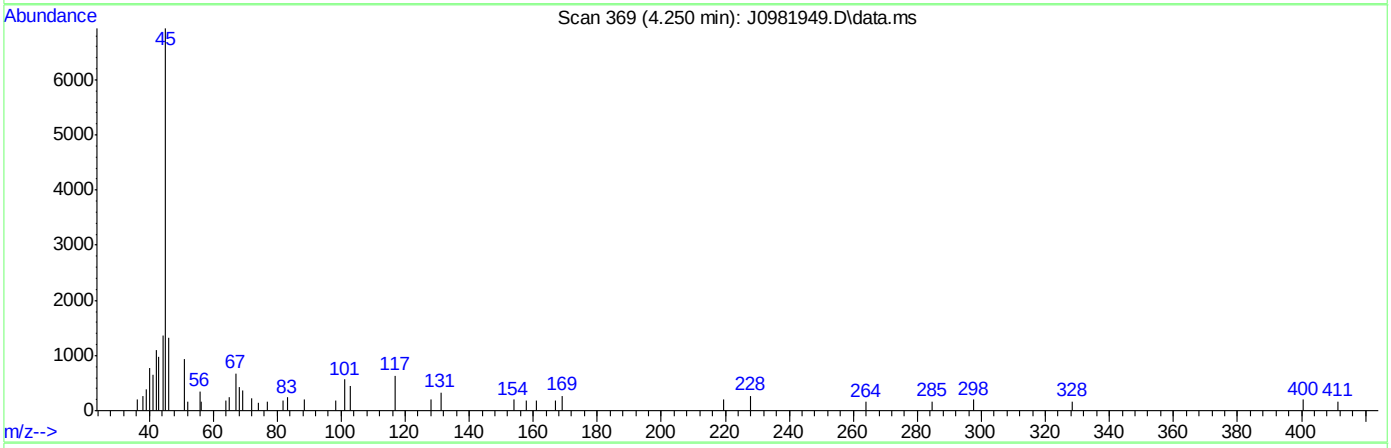
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981949.D\data.ms

(107) Ethanol

4.250min (-0.029) 454.79ug/L

response 31066

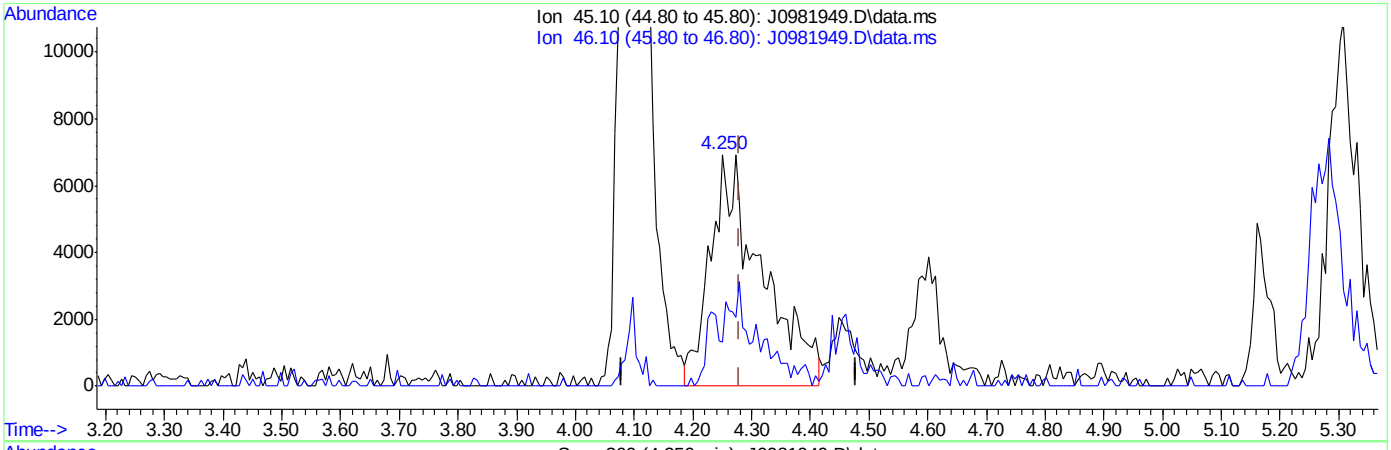
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	20.79#
0.00	0.00	0.00
0.00	0.00	0.00

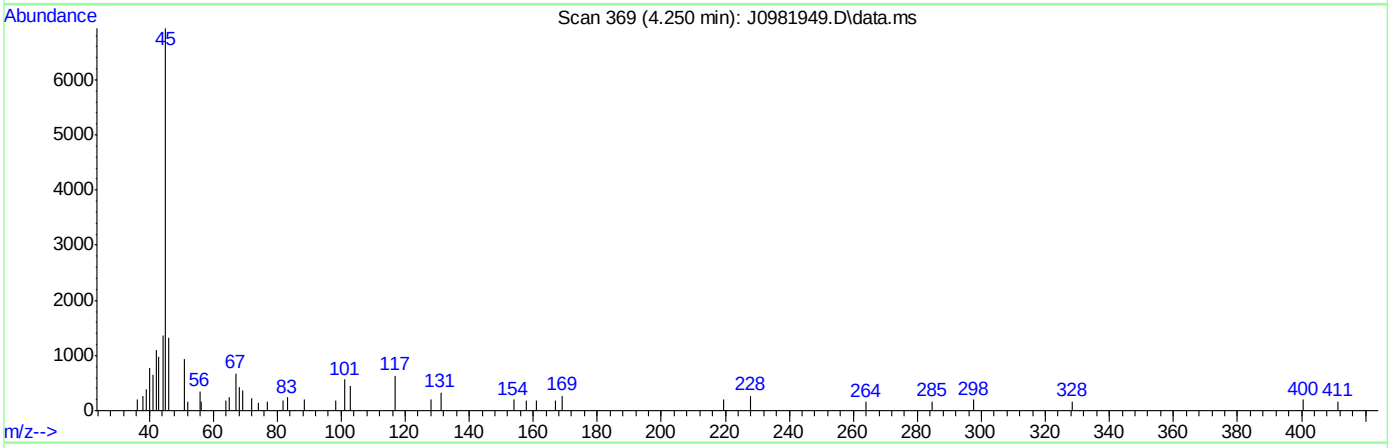
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981949.D
Acq On : 4 Jan 2017 10:45 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 04 11:02:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981949.D\data.ms

(107) Ethanol

4.250min (-0.029) 613.66ug/L m

response 41922

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	18.96#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/04/17 11:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	540182	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	363171	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	201579	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	74692	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	124703	48.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.80%			
46) 1,2-Dichloroethane-d4	7.458	65	185441	54.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.14%			
57) Toluene-d8	9.279	98	499138	51.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.50%			
79) 4-Bromofluorobenzene	12.035	95	207653	51.64	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	152136	25.89	ug/L	84
3) Chloromethane	2.863	50	206138	24.22	ug/L	95
4) Vinyl Chloride	3.004	62	108597	21.01	ug/L	94
5) 1,3-Butadiene	3.016	54	18591	5.69	ug/L	88
6) Bromomethane	3.439	94	42744	14.92	ug/L	89
7) Chloroethane	3.592	64	40684	19.98	ug/L	91
8) Trichlorofluoromethane	3.797	101	145657m	23.18	ug/L	
9) Ethyl Ether	4.103	59	125753	27.44	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.332	67	175005	30.88	ug/L	96
11) 1,1-Dichloroethene	4.379	61	253821	32.20	ug/L	91
12) Freon 113	4.438	101	134605	28.08	ug/L	90
13) Carbon Disulfide	4.449	76	415853	25.27	ug/L	99
14) Iodomethane	4.561	142	198132	23.66	ug/L	95
15) Allyl chloride	4.902	41	261509	27.68	ug/L	97
16) Methylene Chloride	5.025	49	251449	29.90	ug/L	90
17) Acetone	5.049	58	61027	140.40	ug/L #	74
18) Methyl acetate	5.172	74	84444	123.42	ug/L #	74
19) trans-1,2-Dichloroethene	5.202	61	244104	31.88	ug/L	95
20) Hexane	5.272	56	159913	32.37	ug/L	93
21) Methyl Tert Butyl Ether	5.313	73	531261	34.95	ug/L	95
22) Acetonitrile	5.572	40	100009	273.90	ug/L	96
23) Di-isopropyl ether	5.695	45	634032	31.05	ug/L	99
24) Chloroprene	5.848	53	241161	27.41	ug/L	92
25) 1,1-Dichloroethane	5.871	63	307133	33.53	ug/L	95
26) Acrylonitrile	5.907	53	258580	135.17	ug/L	98
27) ETBE	6.089	59	516807	27.43	ug/L	98
28) Vinyl acetate	6.083	43	1472946	119.13	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	159003	28.11	ug/L	91
30) 2,2-Dichloropropane	6.582	77	203867	25.90	ug/L	98
31) Bromochloromethane	6.665	128	64833	24.99	ug/L #	78
32) Cyclohexane	6.712	56	320626	31.19	ug/L	94
33) Chloroform	6.717	83	257896	27.75	ug/L	94
34) Ethyl acetate	6.782	43	600165	126.92	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.894	42	50351	32.33	ug/L		94
37)	Carbon Tetrachloride	6.911	117	178086m	27.70	ug/L		
38)	1,1,1-Trichloroethane	6.970	97	222079	27.31	ug/L		97
39)	2-Butanone	6.999	43	358041	157.95	ug/L		93
40)	1,1-Dichloropropene	7.082	75	203327	30.93	ug/L		86
42)	Propionitrile	7.311	54	200122	283.27	ug/L		98
43)	Methacrylonitrile	7.334	41	965445	318.04	ug/L		98
44)	Benzene	7.334	78	577964	32.69	ug/L		96
45)	TAME	7.411	73	428768	27.89	ug/L		97
47)	1,2-Dichloroethane	7.522	62	220831	30.99	ug/L		98
48)	Trichloroethene	7.910	95	152714	30.29	ug/L		97
49)	Methylcyclohexane	7.934	83	271753	30.11	ug/L		90
50)	Dibromomethane	8.339	93	85655	28.04	ug/L		98
51)	1,2-Dichloropropane	8.427	63	171900	32.07	ug/L		92
52)	Bromodichloromethane	8.474	83	181382	27.13	ug/L		95
53)	Methyl methacrylate	8.568	41	147117	29.50	ug/L		89
55)	cis-1,3-Dichloropropene	9.091	75	233301	28.46	ug/L		95
58)	Toluene	9.332	91	601596	33.43	ug/L		99
59)	2-Nitropropane	9.532	41	187767	158.22	ug/L		95
60)	4-Methyl-2-pentanone	9.649	43	831506	168.75	ug/L		94
61)	trans-1,3-Dichloropropene	9.714	75	211153	31.96	ug/L		93
62)	Tetrachloroethene	9.737	166	137281	25.05	ug/L		94
63)	Ethyl methacrylate	9.820	69	168316	26.92	ug/L		86
64)	1,1,2-Trichloroethane	9.878	83	108456	32.57	ug/L		90
65)	Dibromochloromethane	10.078	129	110325	24.70	ug/L		91
66)	1,3-Dichloropropane	10.161	76	225873	30.64	ug/L		93
67)	1,2-Dibromoethane	10.343	107	123721	29.78	ug/L		98
68)	2-hexanone	10.466	43	564439	172.81	ug/L		92
69)	1-Chlorohexane	10.777	91	210918	31.55	ug/L		90
70)	Ethylbenzene	10.842	91	693072	34.34	ug/L		96
71)	Chlorobenzene	10.842	112	363315	29.35	ug/L		88
72)	1,1,1,2-Tetrachloroethane	10.895	131	134340	28.03	ug/L		97
73)	m,p-Xylene	10.977	91	1073996	63.70	ug/L		97
74)	o-Xylene	11.418	91	583369	31.52	ug/L		95
75)	Styrene	11.465	104	369077	26.71	ug/L		94
76)	Bromoform	11.524	173	64196	20.50	ug/L		97
77)	Isopropylbenzene	11.723	105	991686	46.00	ug/L		99
80)	cis-1,4-Dichloro-2-butene	12.070	53	34224	21.19	ug/L	#	82
81)	n-Propylbenzene	12.141	91	1008417	37.69	ug/L		95
82)	Bromobenzene	12.164	156	159110	28.52	ug/L		98
83)	1,1,2,2-Tetrachloroethane	12.199	83	174579	29.85	ug/L		97
84)	1,3,5-Trimethylbenzene	12.323	105	556461	31.37	ug/L		98
85)	2-Chlorotoluene	12.329	91	571219	31.38	ug/L		96
86)	trans-1,4-Dichloro-2-B...	12.381	53	39132	22.00	ug/L	#	78
87)	1,2,3-Trichloropropane	12.358	110	46943	31.09	ug/L		87
88)	Cyclohexanone	12.428	55	28268	121.52	ug/L		93
89)	4-Chlorotoluene	12.499	91	545282	31.39	ug/L		98
90)	a-Methyl Styrene	12.734	118	5094	0.46	ug/L	#	1
91)	tert-Butylbenzene	12.664	91	373332	32.29	ug/L		91
92)	1,2,4-Trimethylbenzene	12.734	105	547584	31.16	ug/L		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	Pentachloroethane	12.716	167	90798	26.37	ug/L		95
94)	sec-Butylbenzene	12.846	105	828416	34.43	ug/L		95
95)	4-Isopropyltoluene	12.981	119	634517	33.46	ug/L		96
96)	1,3-Dichlorobenzene	13.116	146	330790	29.12	ug/L		96
97)	1,4-Dichlorobenzene	13.198	146	332474	28.20	ug/L		97
98)	n-Butylbenzene	13.410	92	405736	35.06	ug/L		94
99)	Benzyl Chloride	13.427	126	49479	20.66	ug/L	#	40
100)	1,2-Dichlorobenzene	13.627	146	326404	28.53	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.362	75	32440	28.02	ug/L		86
102)	Hexachlorobutadiene	14.908	225	114948	23.83	ug/L		94
103)	1,2,4-Trichlorobenzene	14.955	180	226933	27.97	ug/L		98
104)	Naphthalene	15.237	128	562425	34.41	ug/L		99
105)	1,2,3-Trichlorobenzene	15.407	180	212098	27.81	ug/L		94
107)	Ethanol	4.267	45	35631m	629.50	ug/L		
108)	acrolein	4.737	56	111635	107.51	ug/L		99
109)	Tert Butyl Alcohol	5.360	59	288635	474.42	ug/L		93
110)	tert Amyl alcohol	7.552	59	125519	255.42	ug/L		93
111)	Isobutyl alcohol	7.434	42	108889	548.54	ug/L	#	85
112)	1,4-Dioxane	8.650	88	401897	7696.01	ug/L		94
113)	3,3-Dimethyl-1-butanol	10.413	57	679857	1332.84	ug/L		94

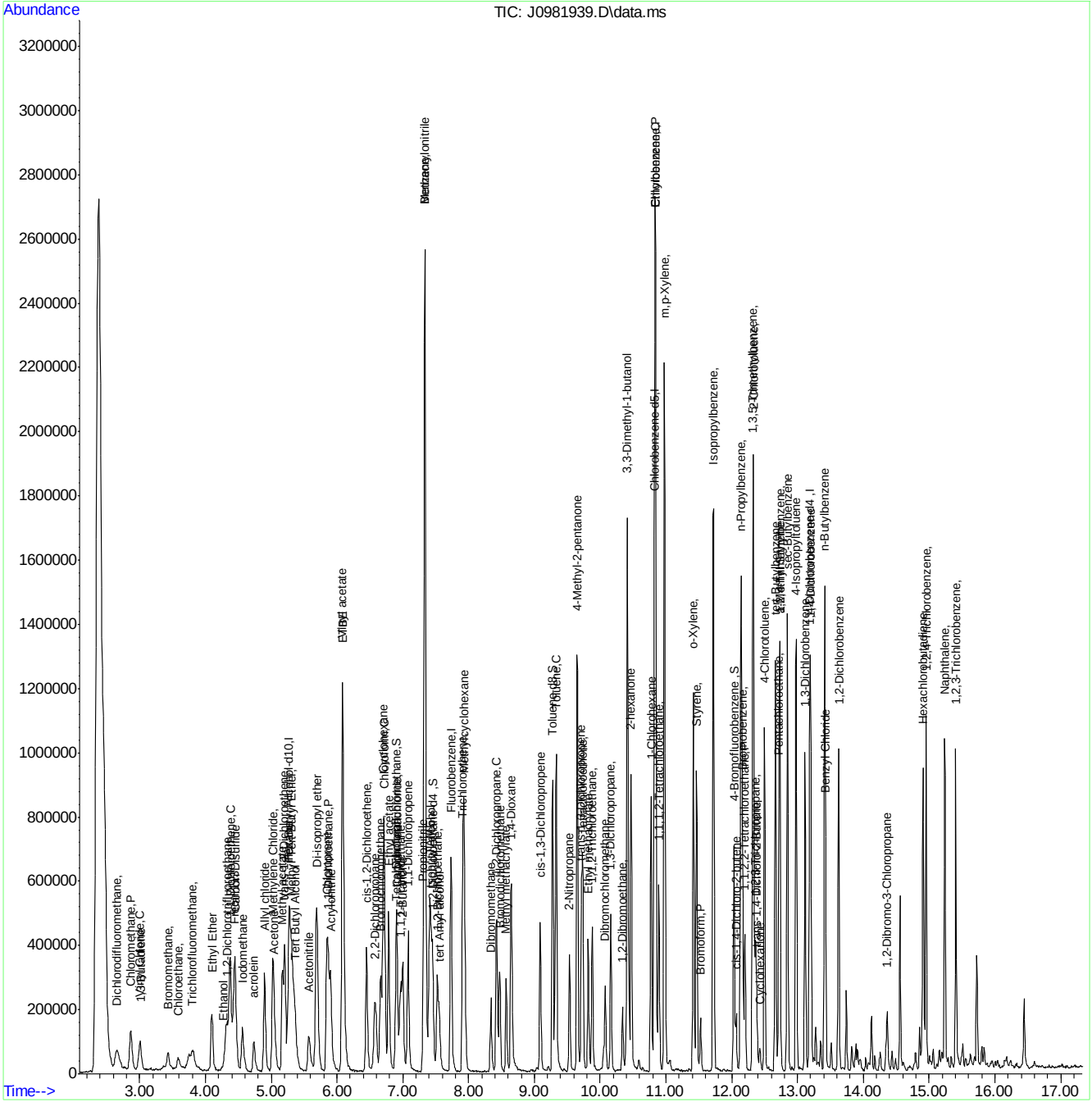
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

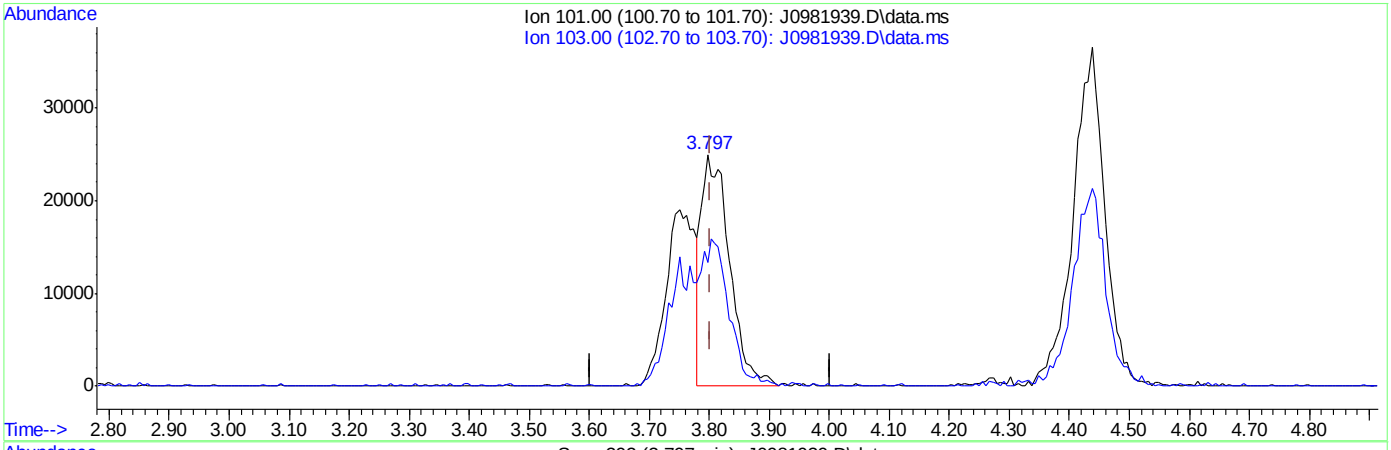
Sample Number:	FA39907-16MS	**Method:**	SW846 8260C
Lab FileID:	J0981939.D	**Analyst approved:**	01/04/17 10:37 Darshna Patel
Injection Time:	01/03/17 19:57	**Supervisor approved:**	01/04/17 11:40 Juan Garcia

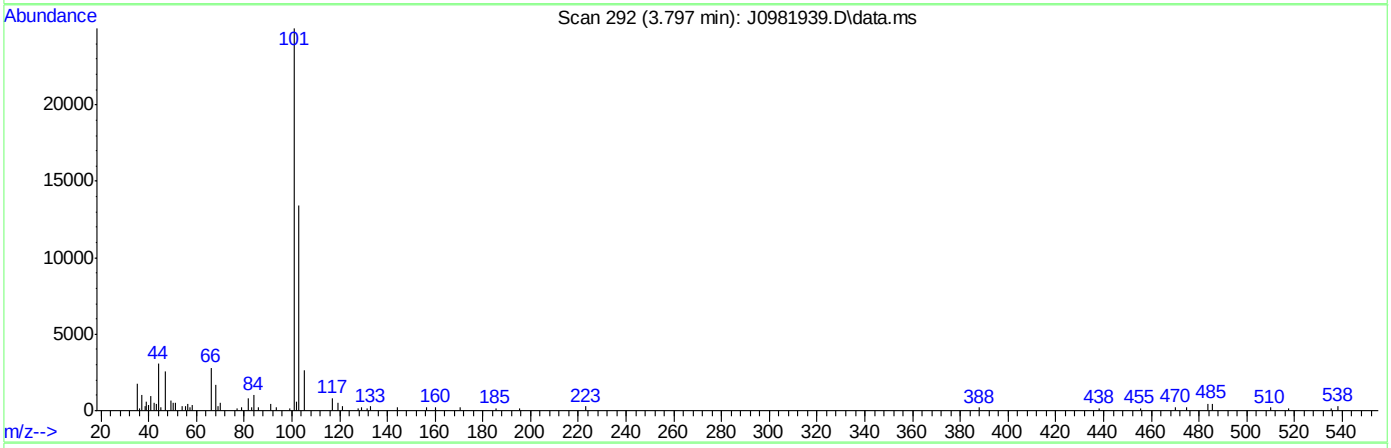
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981939.D\data.ms

(8) Trichlorofluoromethane ( )

3.797min (-0.006) 12.87ug/L

response 80854

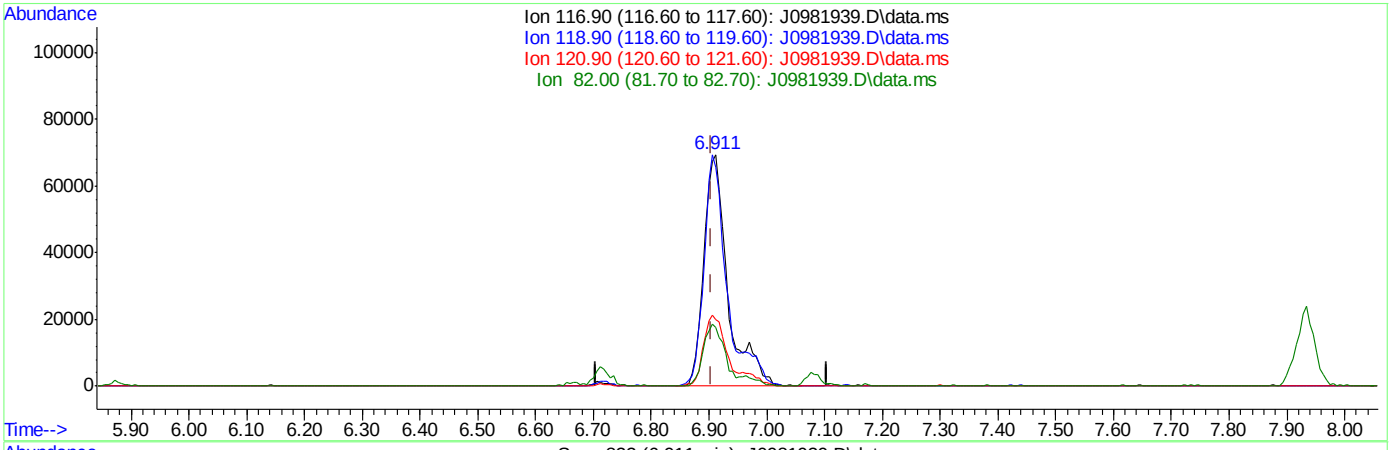
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	53.63
0.00	0.00	0.00
0.00	0.00	0.00

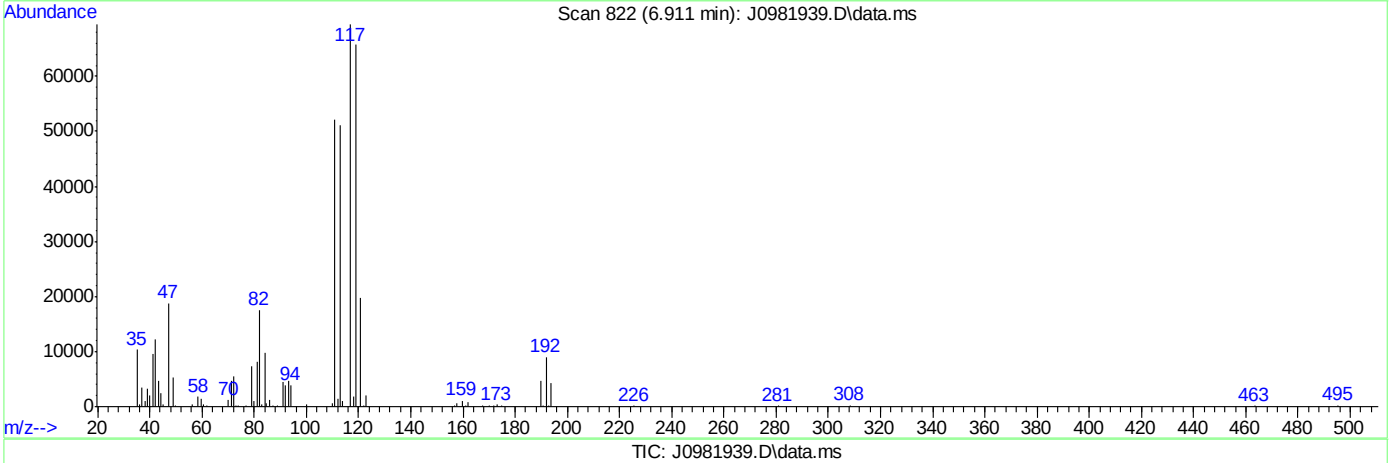
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981939.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 31.59ug/L

response 203071

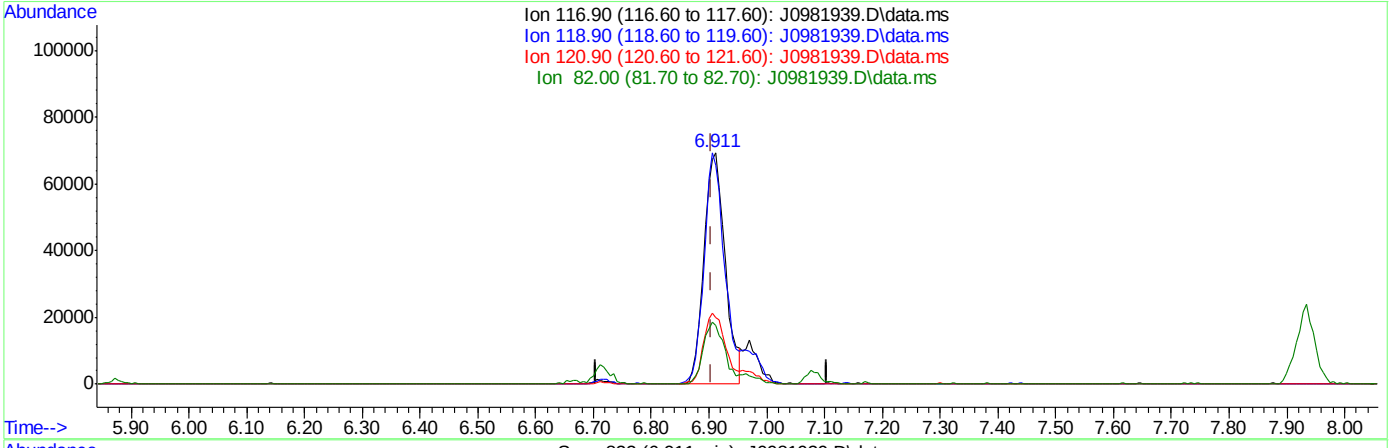
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.70
120.90	30.80	28.56
82.00	23.30	25.36

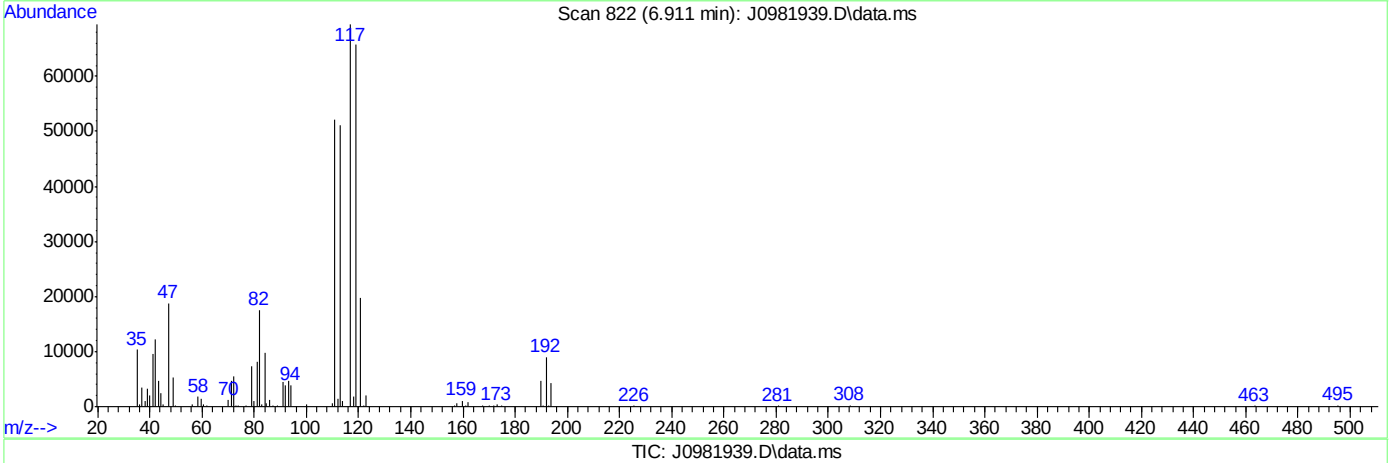
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981939.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 27.70ug/L m

response 178086

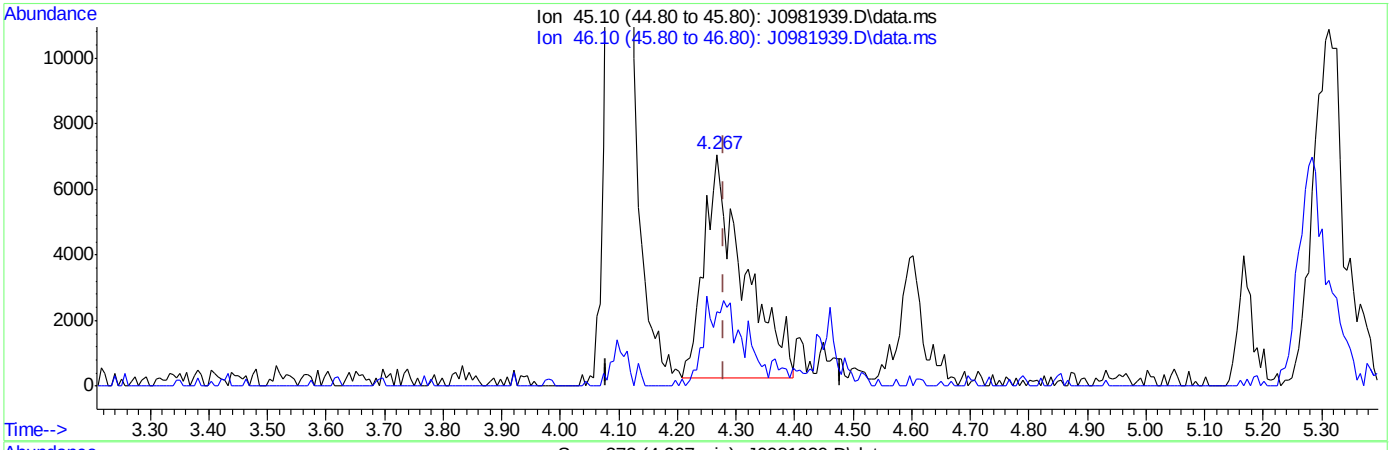
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.70
120.90	30.80	28.56
82.00	23.30	25.36

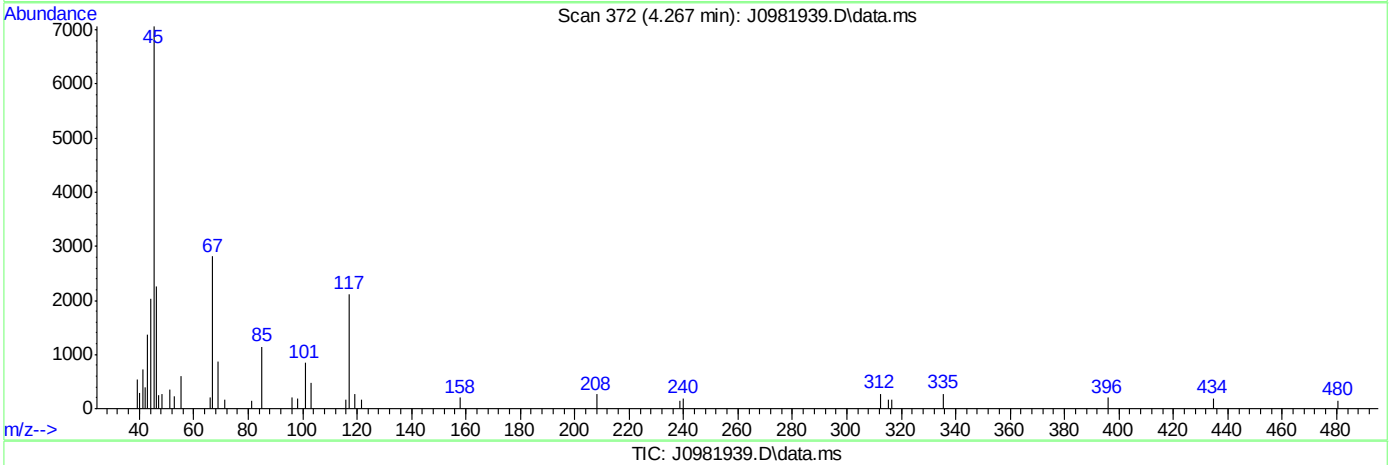
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981939.D\data.ms

(107) Ethanol

4.267min (-0.012) 569.60ug/L

response 32239

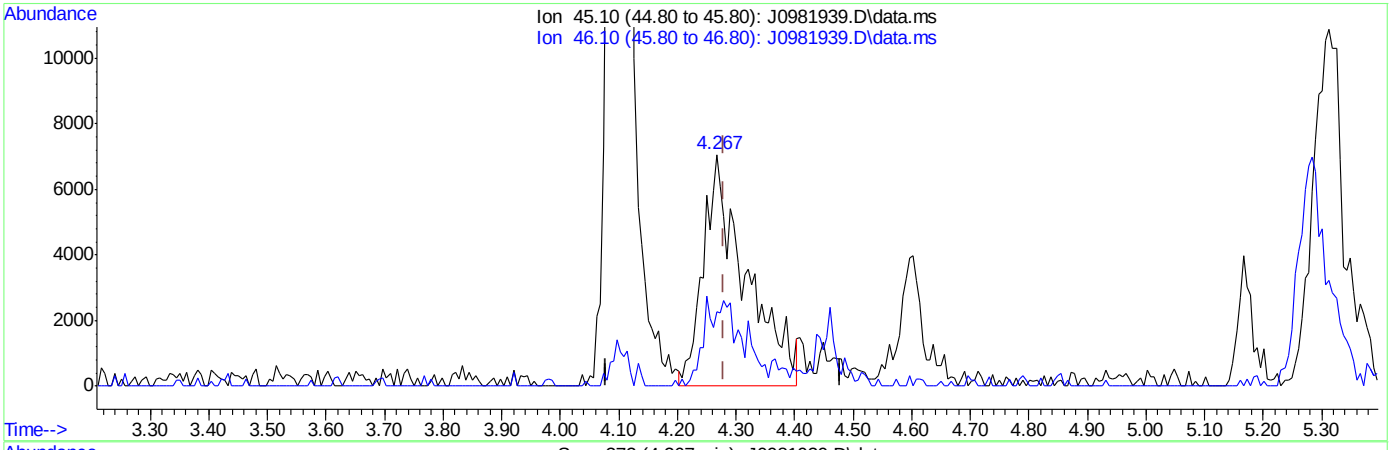
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	29.92
0.00	0.00	0.00
0.00	0.00	0.00

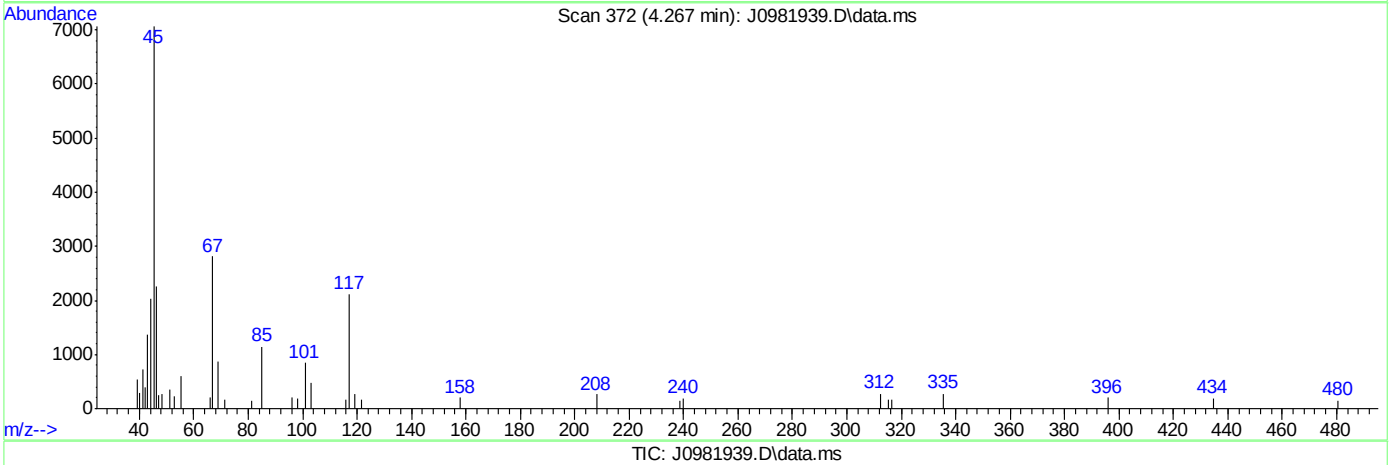
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981939.D
Acq On : 3 Jan 2017 7:57 pm
Operator : darshnap
Sample : fa39907-16ms ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:40 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981939.D\data.ms

(107) Ethanol

4.267min (-0.012) 629.50ug/L m

response 35631

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	32.08
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/04/17 11:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:39 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	597411	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	415456	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	220405	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	83453	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	136523	48.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.82%			
46) 1,2-Dichloroethane-d4	7.458	65	207170	54.62	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.24%			
57) Toluene-d8	9.279	98	559378	50.70	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.40%			
79) 4-Bromofluorobenzene	12.035	95	234789	53.41	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	163041	25.09	ug/L	86
3) Chloromethane	2.863	50	227774	24.20	ug/L	99
4) Vinyl Chloride	3.010	62	132023	23.10	ug/L	98
5) 1,3-Butadiene	3.004	54	27976	7.75	ug/L	92
6) Bromomethane	3.427	94	51462	16.28	ug/L	96
7) Chloroethane	3.580	64	47149	20.99	ug/L	90
8) Trichlorofluoromethane	3.809	101	166077m	23.90	ug/L	
9) Ethyl Ether	4.091	59	144061	28.42	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.332	67	184096	29.37	ug/L	92
11) 1,1-Dichloroethene	4.373	61	274686	31.51	ug/L	98
12) Freon 113	4.426	101	138367	26.10	ug/L	92
13) Carbon Disulfide	4.449	76	439342	24.14	ug/L	97
14) Iodomethane	4.561	142	212310	22.93	ug/L	97
15) Allyl chloride	4.896	41	268162	25.66	ug/L	97
16) Methylene Chloride	5.025	49	277820	29.87	ug/L	93
17) Acetone	5.049	58	69080	143.71	ug/L #	69
18) Methyl acetate	5.172	74	95012	125.57	ug/L	94
19) trans-1,2-Dichloroethene	5.202	61	261764	30.91	ug/L	93
20) Hexane	5.278	56	164265	30.07	ug/L #	91
21) Methyl Tert Butyl Ether	5.307	73	557422	33.16	ug/L	93
22) Acetonitrile	5.566	40	114959	285.12	ug/L	90
23) Di-isopropyl ether	5.689	45	681478	30.17	ug/L	93
24) Chloroprene	5.842	53	250585	25.75	ug/L	93
25) 1,1-Dichloroethane	5.871	63	317087	31.30	ug/L	92
26) Acrylonitrile	5.901	53	281881	133.23	ug/L	98
27) ETBE	6.095	59	566707	27.20	ug/L	94
28) Vinyl acetate	6.083	43	1543014	112.36	ug/L	100
29) cis-1,2-Dichloroethene	6.447	96	174707	27.93	ug/L	97
30) 2,2-Dichloropropane	6.582	77	217647	25.00	ug/L	99
31) Bromochloromethane	6.665	128	71611	24.96	ug/L #	87
32) Cyclohexane	6.706	56	343698	30.23	ug/L	96
33) Chloroform	6.712	83	282219	27.46	ug/L	96
34) Ethyl acetate	6.782	43	649000	124.10	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:39 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.900	42	58435	33.94	ug/L		91
37)	Carbon Tetrachloride	6.905	117	185232	26.05	ug/L		97
38)	1,1,1-Trichloroethane	6.970	97	246622	27.43	ug/L		98
39)	2-Butanone	6.999	43	400231	159.65	ug/L		100
40)	1,1-Dichloropropene	7.082	75	214630	29.52	ug/L		89
42)	Propionitrile	7.311	54	224253	287.02	ug/L		96
43)	Methacrylonitrile	7.334	41	1040133	309.01	ug/L		98
44)	Benzene	7.334	78	621513	31.74	ug/L		99
45)	TAME	7.411	73	469424	27.61	ug/L		95
47)	1,2-Dichloroethane	7.528	62	233736	29.66	ug/L		99
48)	Trichloroethene	7.910	95	165614	29.70	ug/L		97
49)	Methylcyclohexane	7.934	83	292008	29.26	ug/L		91
50)	Dibromomethane	8.339	93	94415	27.95	ug/L		94
51)	1,2-Dichloropropane	8.427	63	180434	30.43	ug/L		96
52)	Bromodichloromethane	8.474	83	188523	25.50	ug/L		95
53)	Methyl methacrylate	8.568	41	159119	28.83	ug/L		89
55)	cis-1,3-Dichloropropene	9.085	75	233738	25.78	ug/L		97
58)	Toluene	9.332	91	659078	32.01	ug/L		99
59)	2-Nitropropane	9.532	41	206294	151.95	ug/L		98
60)	4-Methyl-2-pentanone	9.649	43	904475	159.90	ug/L		98
61)	trans-1,3-Dichloropropene	9.714	75	211345	27.96	ug/L		93
62)	Tetrachloroethene	9.732	166	146174	23.31	ug/L		91
63)	Ethyl methacrylate	9.820	69	181383	25.36	ug/L		87
64)	1,1,2-Trichloroethane	9.879	83	118867	31.20	ug/L		93
65)	Dibromochloromethane	10.078	129	119355	23.36	ug/L		93
66)	1,3-Dichloropropane	10.161	76	241009	28.58	ug/L		94
67)	1,2-Dibromoethane	10.337	107	138627	29.17	ug/L		97
68)	2-hexanone	10.466	43	624526	167.14	ug/L		92
69)	1-Chlorohexane	10.772	91	228546	29.89	ug/L		88
70)	Ethylbenzene	10.842	91	740059	32.06	ug/L		97
71)	Chlorobenzene	10.842	112	395295	27.91	ug/L		89
72)	1,1,1,2-Tetrachloroethane	10.895	131	140782	25.65	ug/L		97
73)	m,p-Xylene	10.977	91	1144978	59.00	ug/L		98
74)	o-Xylene	11.418	91	610340	28.83	ug/L		97
75)	Styrene	11.465	104	369603	23.32	ug/L		94
76)	Bromoform	11.530	173	68478	19.11	ug/L		96
77)	Isopropylbenzene	11.723	105	1045818	42.41	ug/L		98
80)	cis-1,4-Dichloro-2-butene	12.070	53	33398	18.92	ug/L		88
81)	n-Propylbenzene	12.141	91	1058129	36.17	ug/L		95
82)	Bromobenzene	12.164	156	176376	28.92	ug/L		99
83)	1,1,2,2-Tetrachloroethane	12.199	83	186340	29.14	ug/L		97
84)	1,3,5-Trimethylbenzene	12.323	105	557896	28.77	ug/L		99
85)	2-Chlorotoluene	12.329	91	600301	30.16	ug/L		96
86)	trans-1,4-Dichloro-2-B...	12.382	53	39837	20.49	ug/L		92
87)	1,2,3-Trichloropropane	12.364	110	50773	30.75	ug/L		89
88)	Cyclohexanone	12.423	55	29303	115.13	ug/L		82
89)	4-Chlorotoluene	12.499	91	577254	30.39	ug/L		97
90)	a-Methyl Styrene	12.664	118	4078	0.34	ug/L	#	1
91)	tert-Butylbenzene	12.664	91	388897	30.76	ug/L		92
92)	1,2,4-Trimethylbenzene	12.734	105	574490	29.90	ug/L		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:39 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

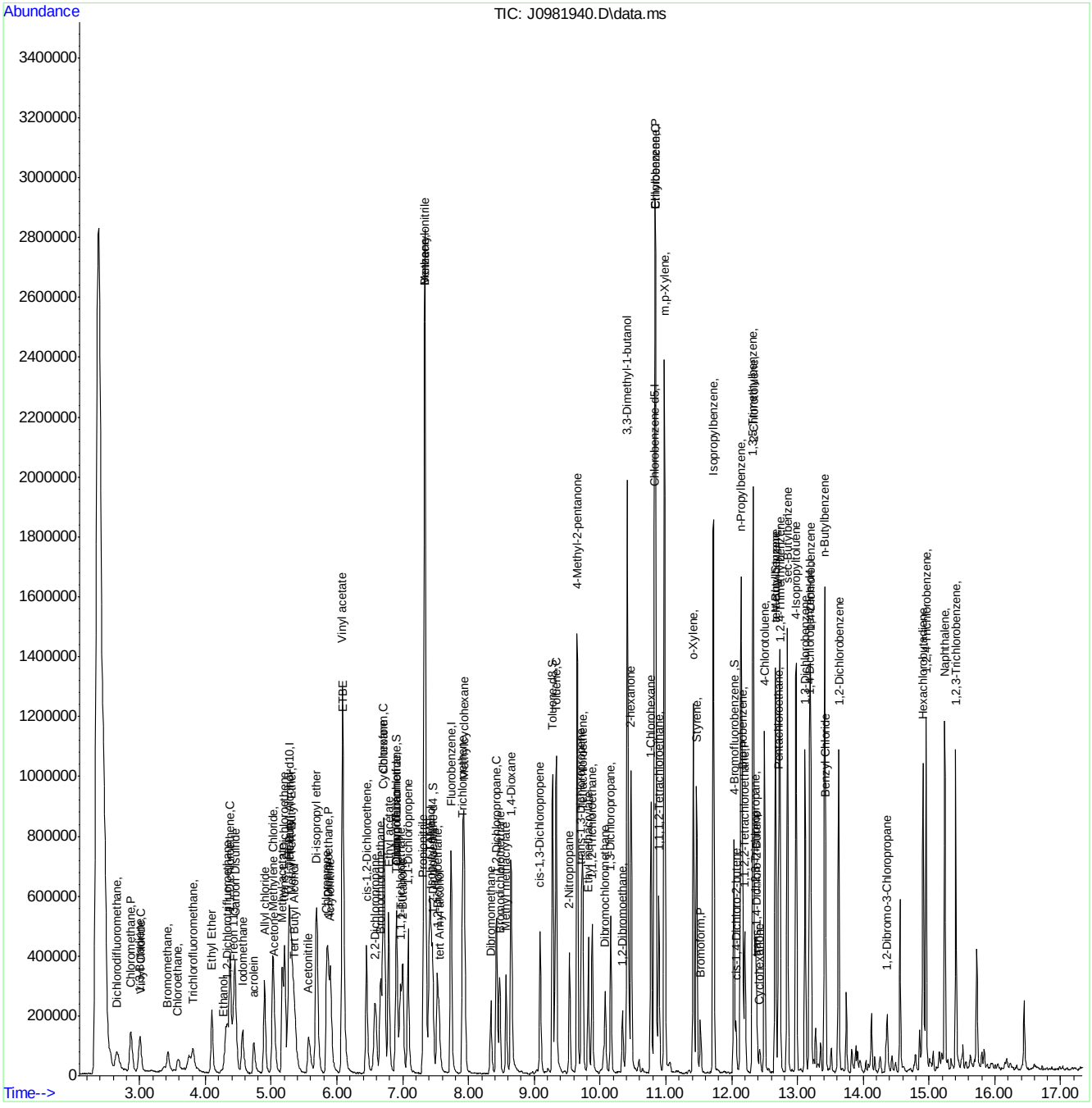
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	Pentachloroethane	12.716	167	90502	24.04	ug/L		99
94)	sec-Butylbenzene	12.846	105	872301	33.15	ug/L		96
95)	4-Isopropyltoluene	12.981	119	661623	31.91	ug/L		96
96)	1,3-Dichlorobenzene	13.116	146	348460	28.05	ug/L		95
97)	1,4-Dichlorobenzene	13.198	146	343001	26.60	ug/L		97
98)	n-Butylbenzene	13.410	92	421831	33.34	ug/L		99
99)	Benzyl Chloride	13.427	126	50539	19.30	ug/L	#	30
100)	1,2-Dichlorobenzene	13.627	146	347419	27.77	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.362	75	35600	28.13	ug/L		83
102)	Hexachlorobutadiene	14.908	225	127784	24.23	ug/L		98
103)	1,2,4-Trichlorobenzene	14.955	180	248745	28.04	ug/L		96
104)	Naphthalene	15.237	128	626047	35.05	ug/L		97
105)	1,2,3-Trichlorobenzene	15.407	180	231512	27.76	ug/L		97
107)	Ethanol	4.279	45	37524m	593.36	ug/L		
108)	acrolein	4.737	56	124752	107.53	ug/L		95
109)	Tert Butyl Alcohol	5.354	59	339370	500.22	ug/L		90
110)	tert Amyl alcohol	7.552	59	137983	251.31	ug/L		95
111)	Isobutyl alcohol	7.434	42	119180	537.35	ug/L		98
112)	1,4-Dioxane	8.645	88	466755	7999.67	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.413	57	790606	1387.24	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 09:47:39 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

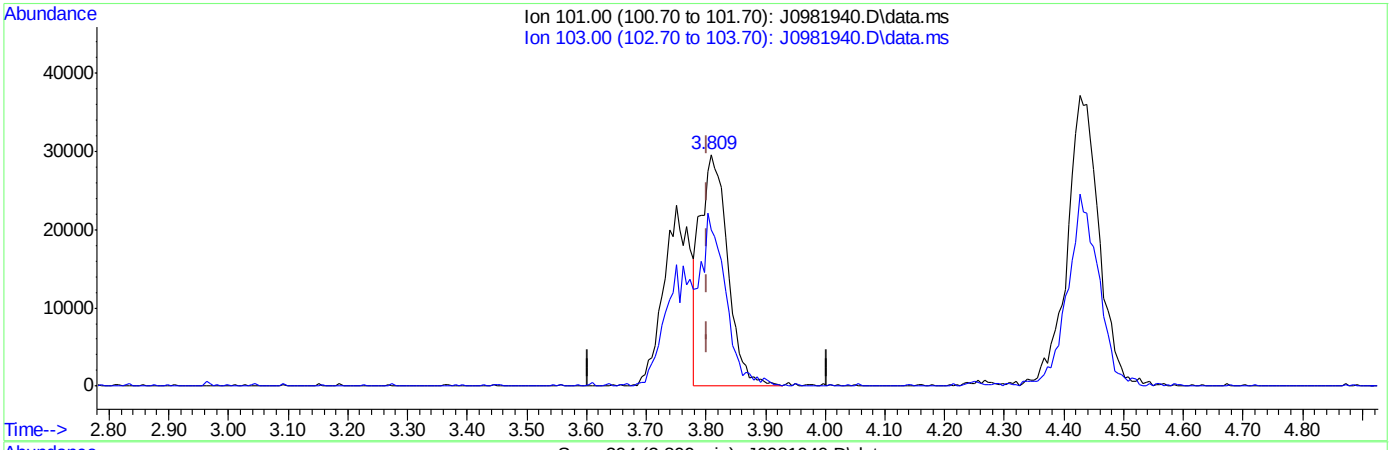
Sample Number:	FA39907-16MSD	**Method:**	SW846 8260C
Lab FileID:	J0981940.D	**Analyst approved:**	01/04/17 10:37 Darshna Patel
Injection Time:	01/03/17 20:21	**Supervisor approved:**	01/04/17 11:40 Juan Garcia

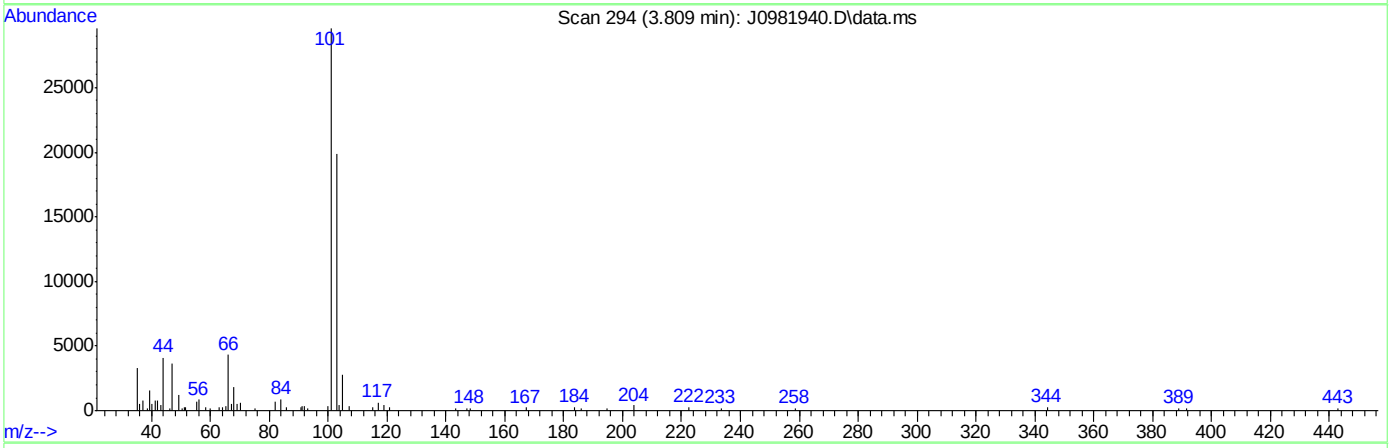
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:43 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981940.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 13.58ug/L

response 94338

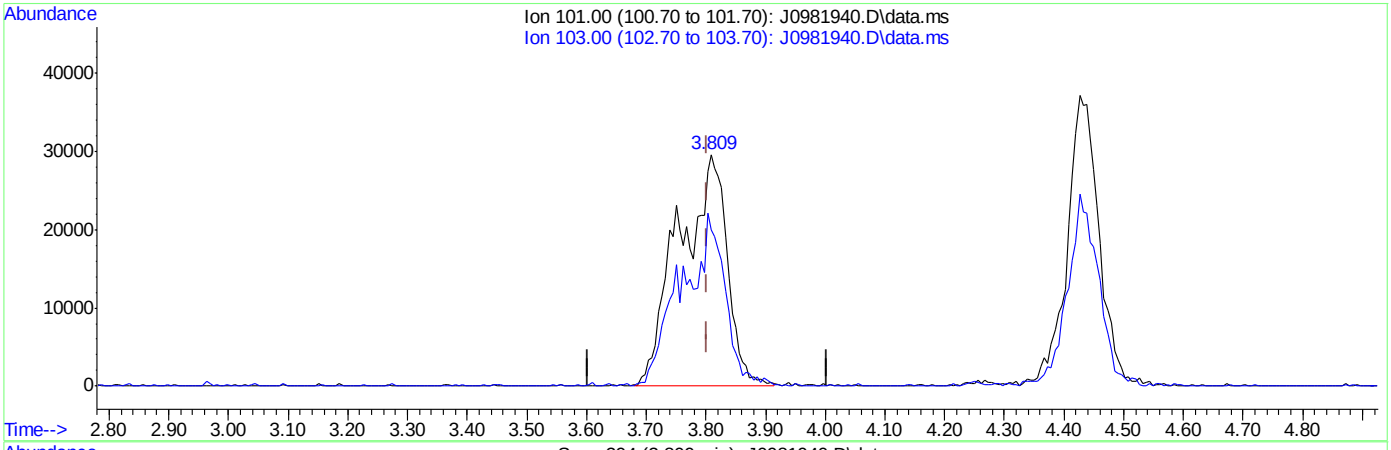
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.23
0.00	0.00	0.00
0.00	0.00	0.00

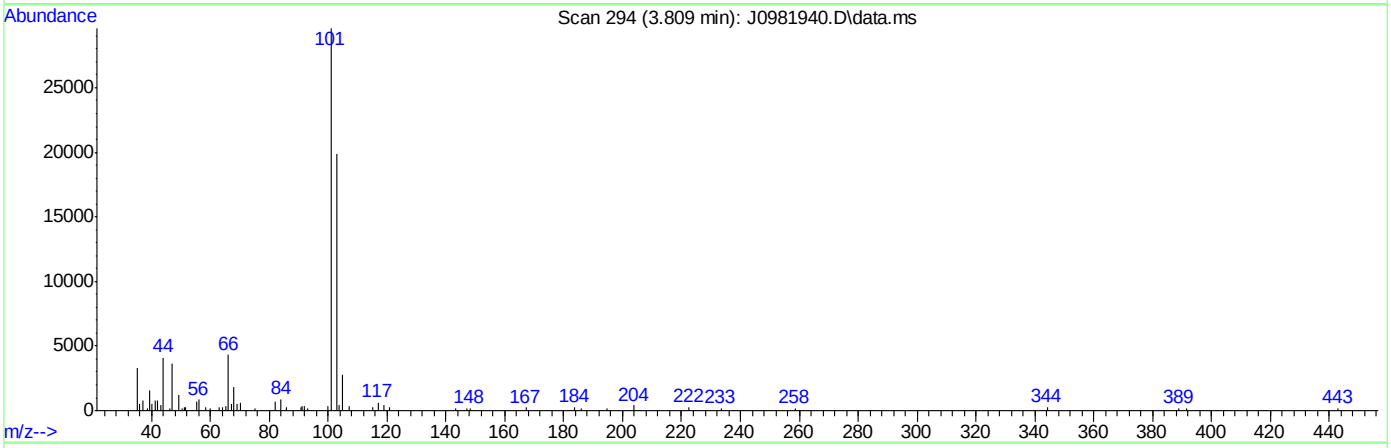
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:43 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981940.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 23.90ug/L m

response 166077

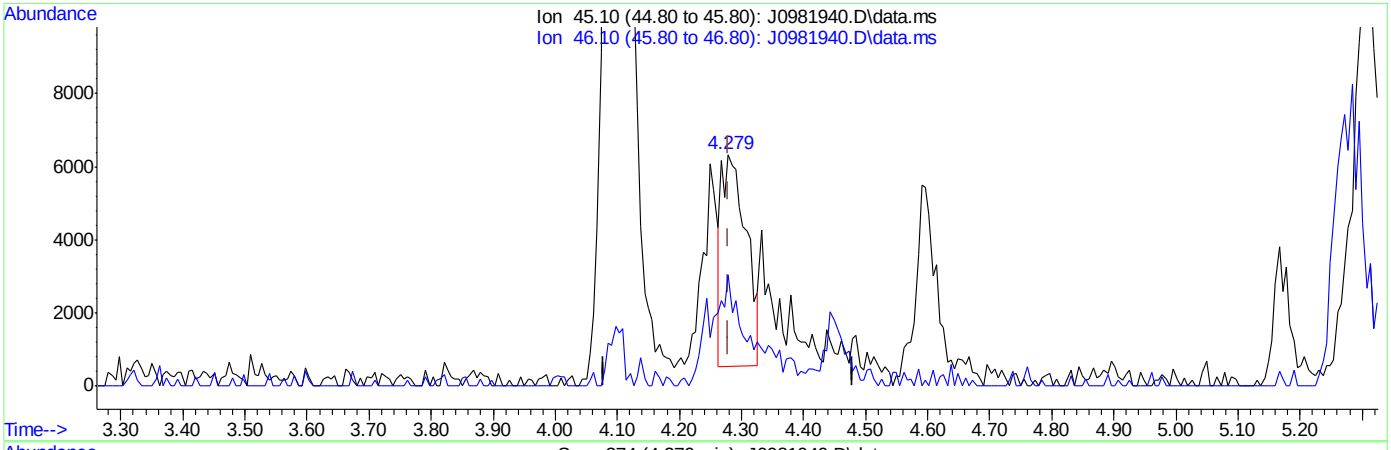
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.23
0.00	0.00	0.00
0.00	0.00	0.00

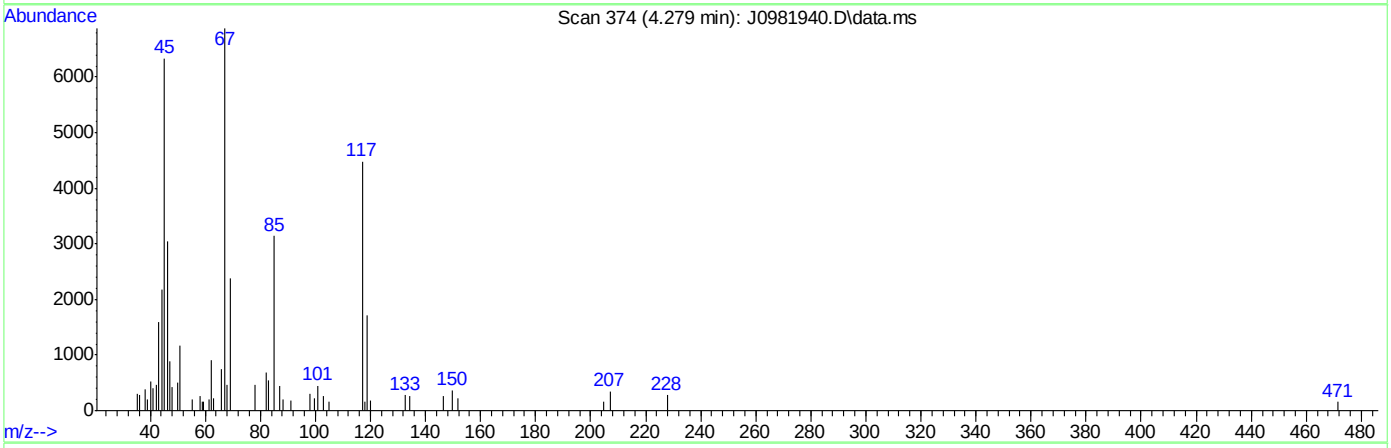
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:43 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981940.D\data.ms

(107) Ethanol

4.279min (+0.000) 256.12ug/L

response 16194

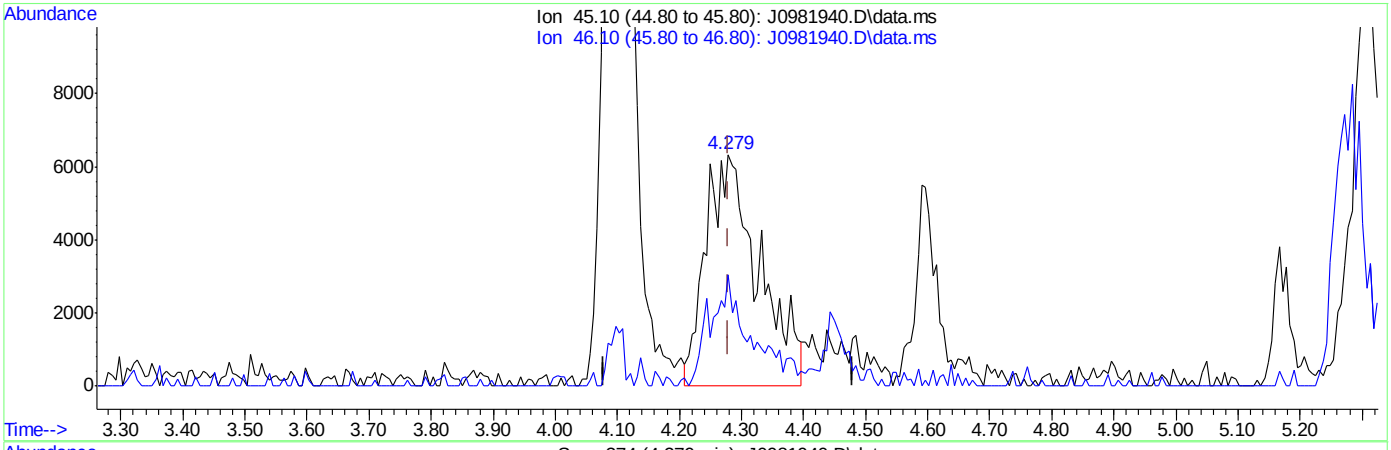
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	48.17
0.00	0.00	0.00
0.00	0.00	0.00

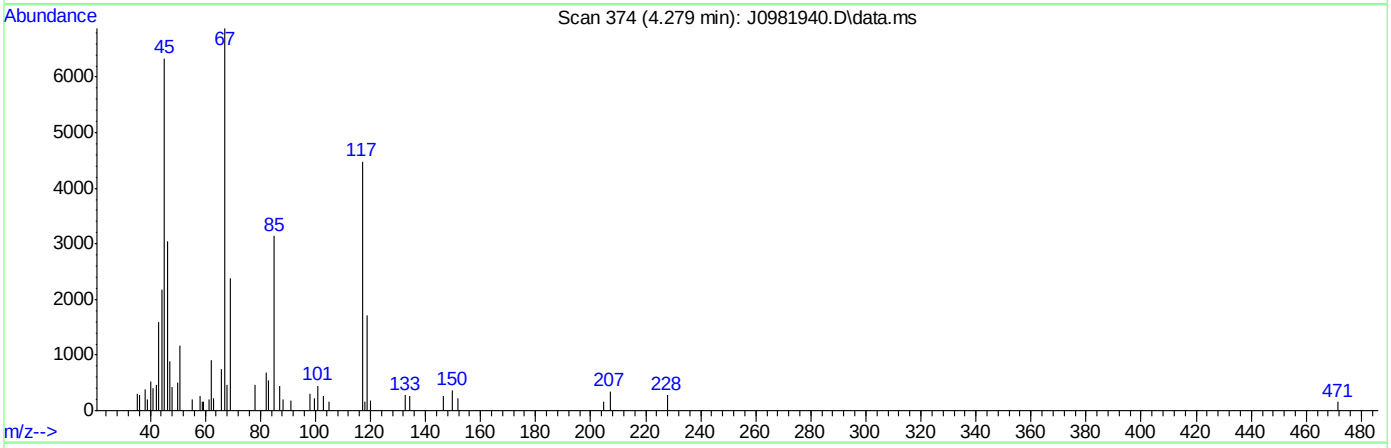
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981940.D
Acq On : 3 Jan 2017 8:21 pm
Operator : darshnap
Sample : fa39907-16msd ma Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 07:48:43 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981940.D\data.ms

(107) Ethanol

4.279min (+0.000) 593.36ug/L m

response 37524

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	47.92
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
01/05/17 11:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:59:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	520604	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	358017	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	186746	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	66808	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	113685	46.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.52%			
46) 1,2-Dichloroethane-d4	7.452	65	178231	53.93	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.86%			
57) Toluene-d8	9.279	98	484667	50.97	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.94%			
79) 4-Bromofluorobenzene	12.035	95	193224	51.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.652	85	202188	35.71	ug/L	100
3) Chloromethane	2.869	50	352288	42.95	ug/L	92
4) Vinyl Chloride	3.016	62	219044	43.98	ug/L	97
5) 1,3-Butadiene	3.010	54	23818	7.57	ug/L	87
6) Bromomethane	3.427	94	87705	32.72	ug/L	95
7) Chloroethane	3.586	64	88237	48.37	ug/L	97
8) Trichlorofluoromethane	3.821	101	290732m	48.01	ug/L	
9) Ethyl Ether	4.097	59	125745	28.47	ug/L	91
10) 1,2-Dichlorotrifluoroe...	4.314	67	275172	50.38	ug/L	88
11) 1,1-Dichloroethene	4.373	61	240589	31.67	ug/L	93
12) Freon 113	4.438	101	202636	43.92	ug/L	92
13) Carbon Disulfide	4.449	76	391603	24.69	ug/L	100
14) Iodomethane	4.567	142	187214	23.20	ug/L	98
15) Allyl chloride	4.896	41	246161	27.03	ug/L	97
16) Methylene Chloride	5.019	49	245598	30.32	ug/L	92
17) Acetone	5.049	58	53581	127.91	ug/L #	56
18) Methyl acetate	5.166	74	92563	140.38	ug/L	98
19) trans-1,2-Dichloroethene	5.207	61	238299	32.29	ug/L	97
20) Hexane	5.272	56	144499	30.35	ug/L #	87
21) Methyl Tert Butyl Ether	5.307	73	396212	27.04	ug/L	91
22) Acetonitrile	5.578	40	100001	284.59	ug/L #	80
23) Di-isopropyl ether	5.689	45	599354	30.45	ug/L	92
24) Chloroprene	5.848	53	228658	26.96	ug/L	95
25) 1,1-Dichloroethane	5.871	63	287064	32.52	ug/L	91
26) Acrylonitrile	5.901	53	263899	143.14	ug/L	98
27) ETBE	6.089	59	483924	26.65	ug/L	98
28) Vinyl acetate	6.083	43	1557850	131.80	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	149986	27.52	ug/L	95
30) 2,2-Dichloropropane	6.576	77	203111	26.78	ug/L	97
31) Bromochloromethane	6.659	128	59839	23.94	ug/L #	80
32) Cyclohexane	6.706	56	297024	29.98	ug/L	94
33) Chloroform	6.712	83	244949	27.35	ug/L	98
34) Ethyl acetate	6.782	43	625892	137.33	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:59:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.894	42	49217	32.79	ug/L		87
37)	Carbon Tetrachloride	6.905	117	153729m	24.81	ug/L		
38)	1,1,1-Trichloroethane	6.970	97	201912	25.77	ug/L		98
39)	2-Butanone	7.000	43	313439	143.47	ug/L		96
40)	1,1-Dichloropropene	7.082	75	183875	29.02	ug/L		85
41)	tert-Butyl Formate	7.170	59	5534	1.06	ug/L	#	63
42)	Propionitrile	7.305	54	184683	271.24	ug/L		88
43)	Methacrylonitrile	7.334	41	884536	300.84	ug/L		98
44)	Benzene	7.329	78	534543	32.17	ug/L		94
45)	TAME	7.411	73	409329	27.63	ug/L		95
47)	1,2-Dichloroethane	7.522	62	204498	29.78	ug/L		95
48)	Trichloroethene	7.910	95	145247	29.89	ug/L		93
49)	Methylcyclohexane	7.934	83	264573	30.42	ug/L		96
50)	Dibromomethane	8.339	93	80412	27.32	ug/L		90
51)	1,2-Dichloropropane	8.427	63	153558	29.72	ug/L		91
52)	Bromodichloromethane	8.468	83	166041	25.77	ug/L		92
53)	Methyl methacrylate	8.568	41	139126	28.93	ug/L		93
55)	cis-1,3-Dichloropropene	9.091	75	218332	27.63	ug/L		95
58)	Toluene	9.332	91	573952	32.35	ug/L		98
59)	2-Nitropropane	9.532	41	170958	146.13	ug/L		95
60)	4-Methyl-2-pentanone	9.649	43	724770	148.00	ug/L		94
61)	trans-1,3-Dichloropropene	9.714	75	193204	29.67	ug/L		91
62)	Tetrachloroethene	9.732	166	121647	22.51	ug/L		94
63)	Ethyl methacrylate	9.820	69	155681	25.26	ug/L		91
64)	1,1,2-Trichloroethane	9.879	83	100350	30.57	ug/L		95
65)	Dibromochloromethane	10.078	129	105292	23.92	ug/L		86
66)	1,3-Dichloropropane	10.161	76	205815	28.32	ug/L		89
67)	1,2-Dibromoethane	10.337	107	112146	27.39	ug/L		100
68)	2-hexanone	10.472	43	488948	151.85	ug/L		90
69)	1-Chlorohexane	10.777	91	192821	29.26	ug/L		92
70)	Ethylbenzene	10.842	91	636676	32.00	ug/L		100
71)	Chlorobenzene	10.842	112	338423	27.73	ug/L		91
72)	1,1,1,2-Tetrachloroethane	10.895	131	112923	25.10	ug/L		93
73)	m,p-Xylene	10.977	91	989405	59.17	ug/L		100
74)	o-Xylene	11.418	91	534346	29.29	ug/L		98
75)	Styrene	11.465	104	381193	30.25	ug/L		93
76)	Bromoform	11.524	173	57017	18.47	ug/L		98
77)	Isopropylbenzene	11.718	105	628900	29.59	ug/L		98
80)	cis-1,4-Dichloro-2-butene	12.064	53	31688	21.18	ug/L	#	73
81)	n-Propylbenzene	12.141	91	792981	31.99	ug/L		96
82)	Bromobenzene	12.164	156	144694	28.00	ug/L		95
83)	1,1,2,2-Tetrachloroethane	12.199	83	160886	29.69	ug/L		95
84)	1,3,5-Trimethylbenzene	12.323	105	534298	32.51	ug/L		92
85)	2-Chlorotoluene	12.329	91	527534	31.28	ug/L		96
86)	trans-1,4-Dichloro-2-B...	12.382	53	34786	21.11	ug/L		90
87)	1,2,3-Trichloropropane	12.364	110	43267	30.93	ug/L		89
88)	Cyclohexanone	12.429	55	25340	117.54	ug/L		92
89)	4-Chlorotoluene	12.499	91	494084	30.70	ug/L		98
90)	a-Methyl Styrene	12.734	118	5104	0.50	ug/L	#	1
91)	tert-Butylbenzene	12.664	91	313052	29.22	ug/L		91

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:59:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.734	105	534257	32.82	ug/L		96
93)	Pentachloroethane	12.716	167	73206	22.95	ug/L		92
94)	sec-Butylbenzene	12.846	105	717915	32.20	ug/L		95
95)	4-Isopropyltoluene	12.981	119	584640	33.28	ug/L		94
96)	1,3-Dichlorobenzene	13.116	146	298268	28.34	ug/L		95
97)	1,4-Dichlorobenzene	13.198	146	311844	28.55	ug/L		96
98)	n-Butylbenzene	13.416	92	354255	33.05	ug/L		92
99)	Benzyl Chloride	13.427	126	47025	21.20	ug/L	#	37
100)	1,2-Dichlorobenzene	13.627	146	363377	34.28	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.362	75	26752	24.95	ug/L		84
102)	Hexachlorobutadiene	14.908	225	102730	22.99	ug/L		92
103)	1,2,4-Trichlorobenzene	14.955	180	198576	26.42	ug/L		98
104)	Naphthalene	15.237	128	493677	33.94	ug/L		97
105)	1,2,3-Trichlorobenzene	15.407	180	185154	26.54	ug/L		97
107)	Ethanol	4.244	45	31487m	621.94	ug/L		
108)	acrolein	4.732	56	122279	131.66	ug/L		92
109)	Tert Butyl Alcohol	5.360	59	226089	399.40	ug/L		82
110)	tert Amyl alcohol	7.552	59	110172	250.65	ug/L		94
111)	Isobutyl alcohol	7.428	42	93997	529.40	ug/L	#	85
112)	1,4-Dioxane	8.651	88	24250	519.17	ug/L		89
113)	3,3-Dimethyl-1-butanol	10.413	57	618583	1355.82	ug/L		94

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

7.4.3

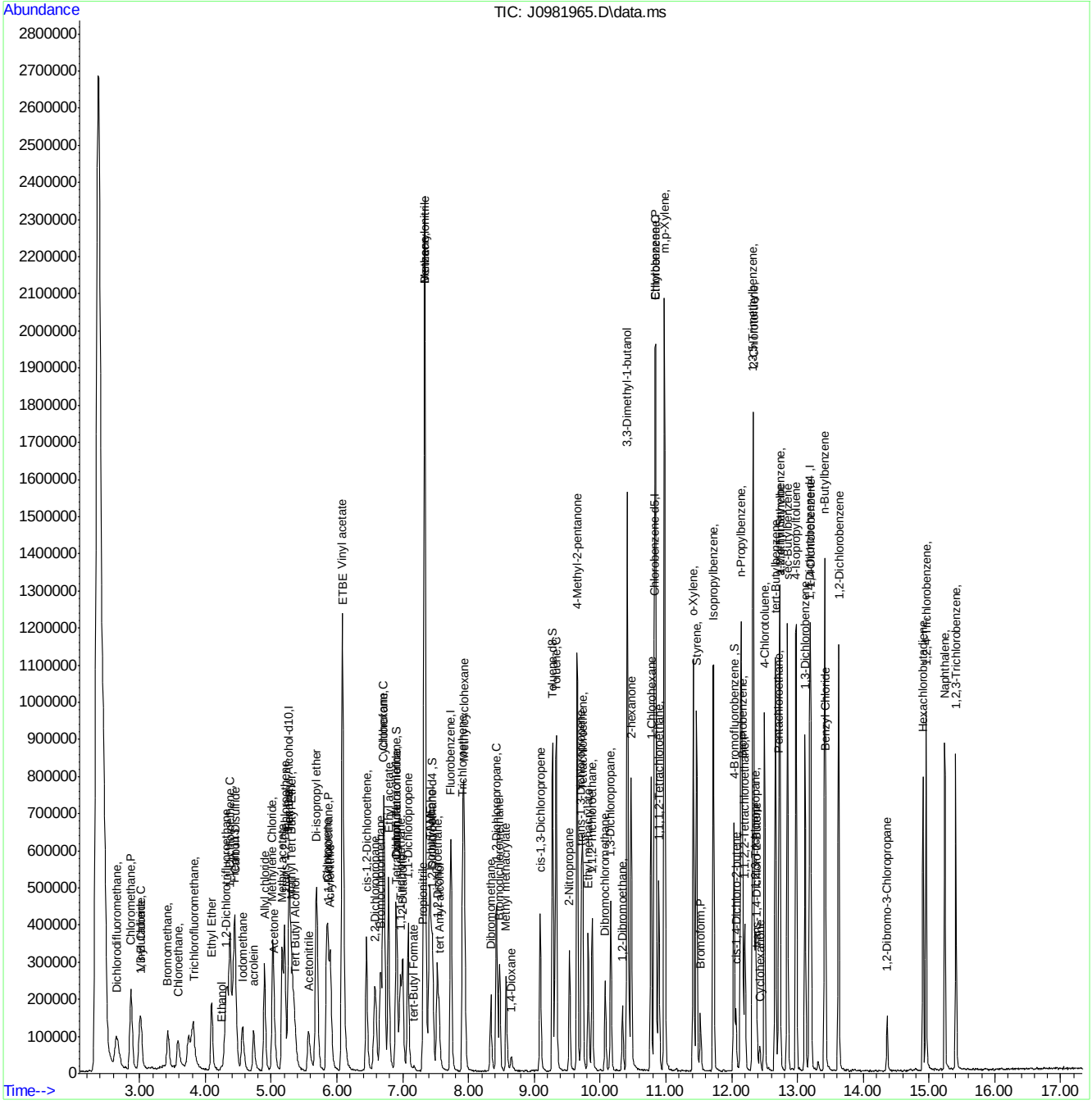
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:59:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

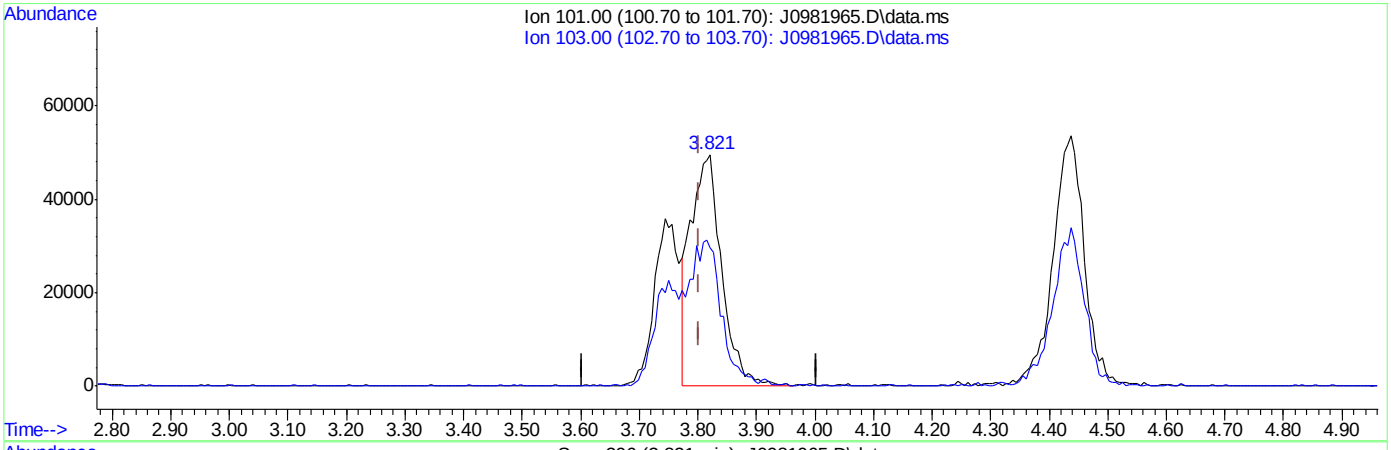
Sample Number:	FA39942-11MS	**Method:**	SW846 8260C
Lab FileID:	J0981965.D	**Analyst approved:**	01/05/17 09:27 Darshna Patel
Injection Time:	01/04/17 17:18	**Supervisor approved:**	01/05/17 11:20 Melissa Mangual

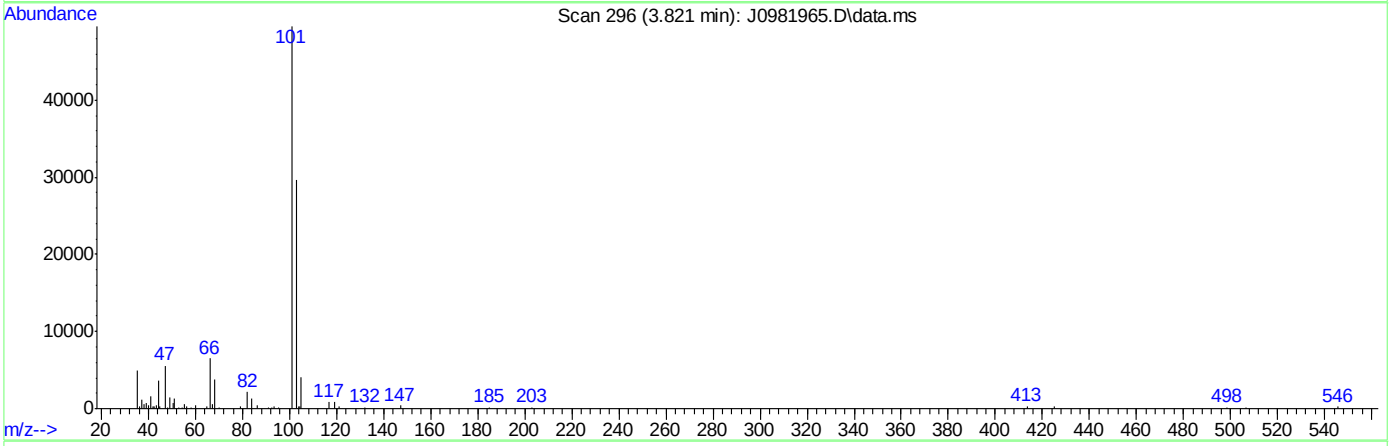
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.82	Split peak
Ethyl Alcohol	64-17-5		4.24	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.018) 30.08ug/L

response 182165

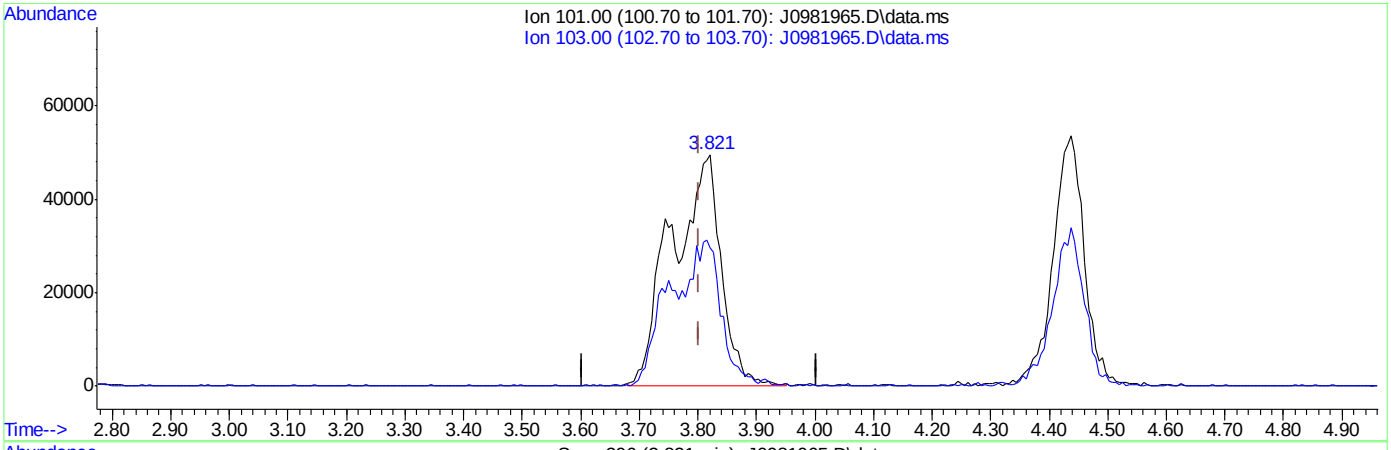
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	59.71
0.00	0.00	0.00
0.00	0.00	0.00

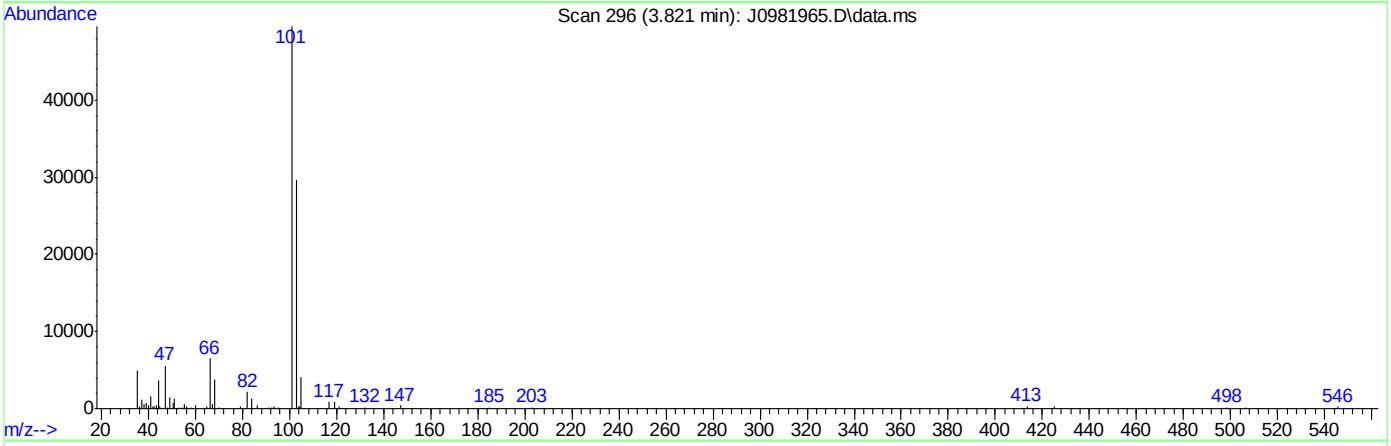
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.018) 48.01ug/L m

response 290732

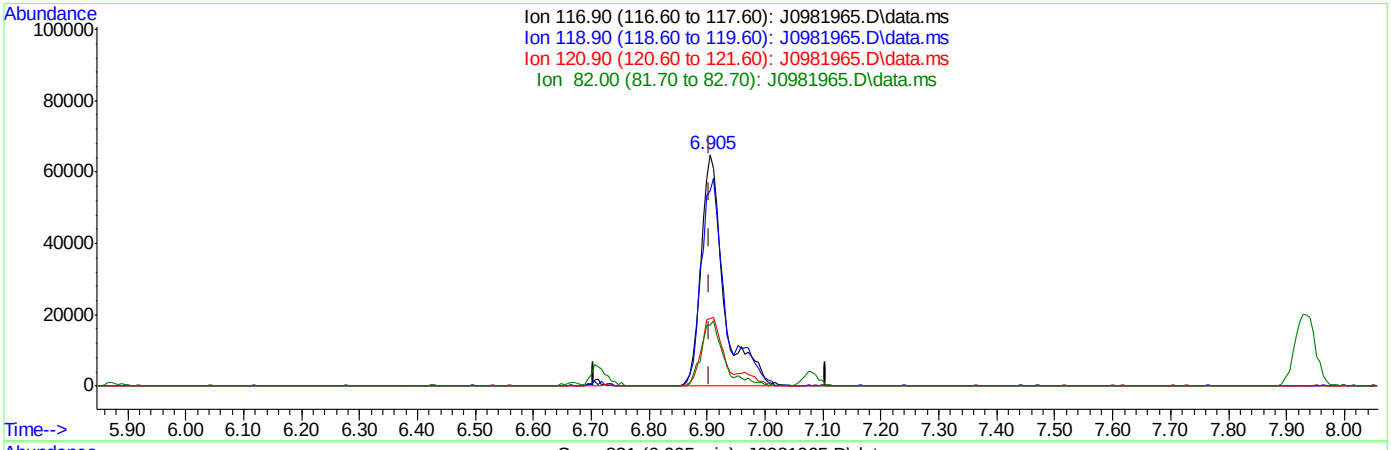
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	59.71
0.00	0.00	0.00
0.00	0.00	0.00

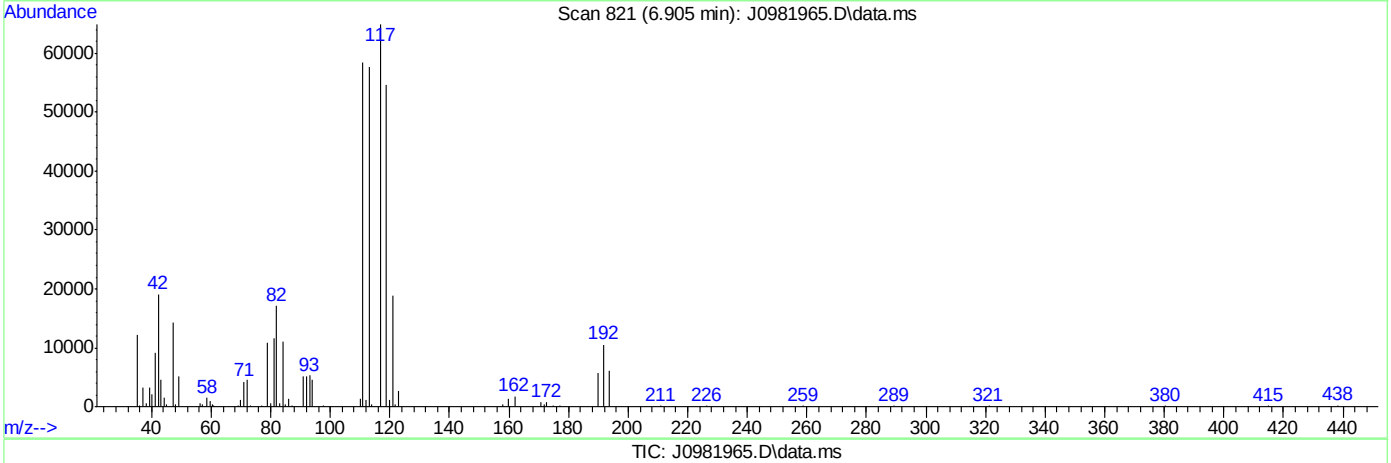
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 28.86ug/L

response 178785

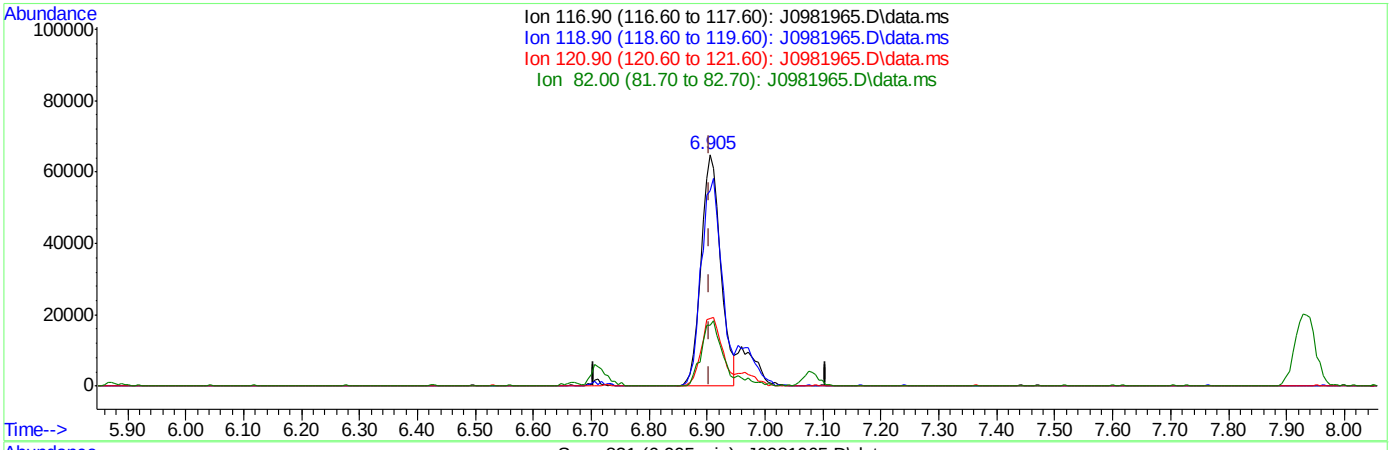
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	84.21
120.90	30.80	29.17
82.00	23.30	26.34

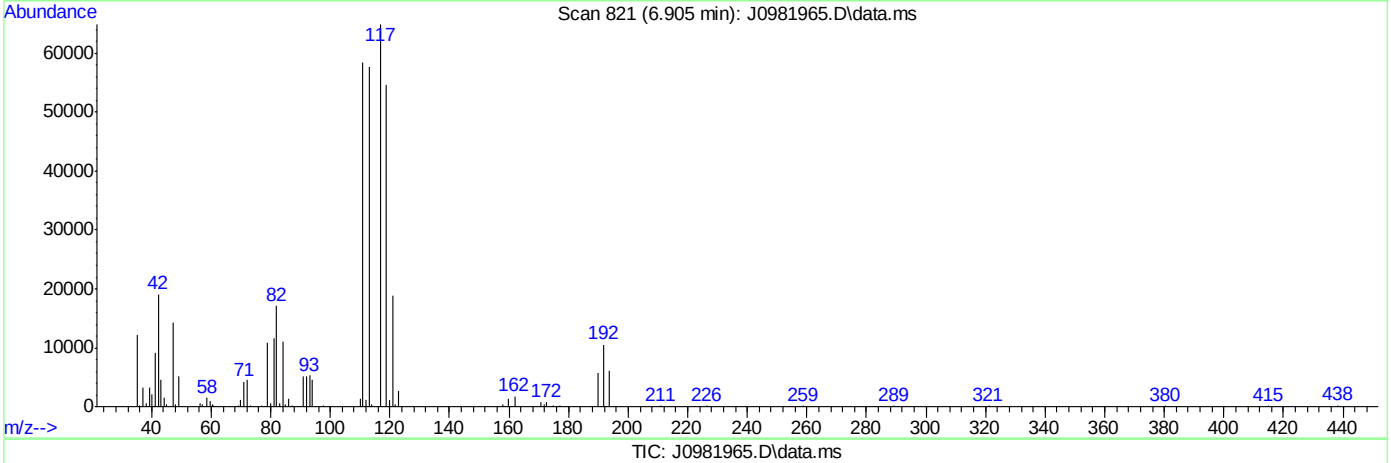
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 24.81ug/L m

response 153729

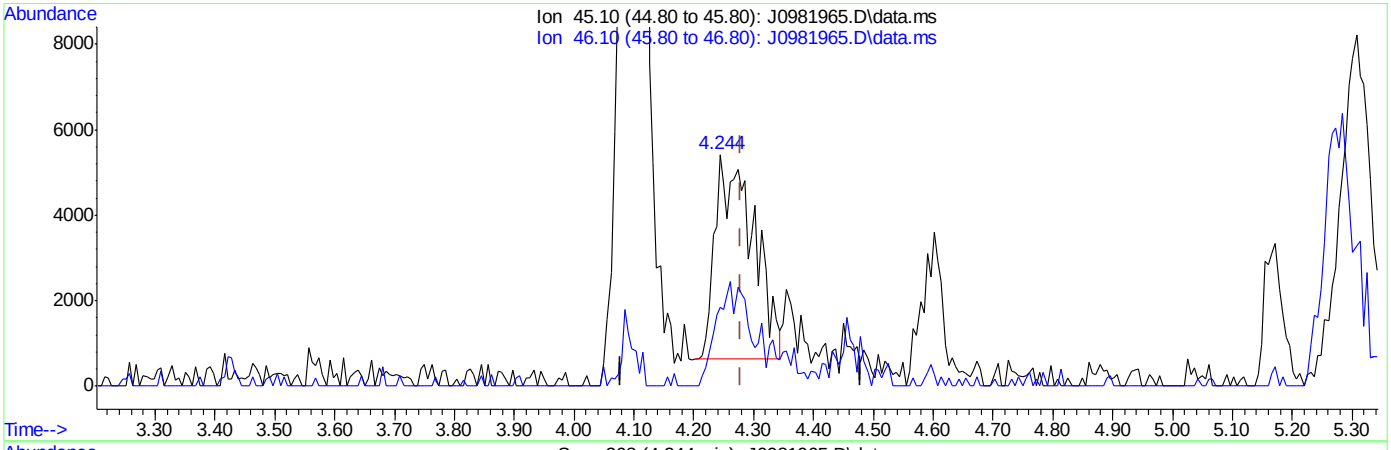
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	84.21
120.90	30.80	29.17
82.00	23.30	26.34

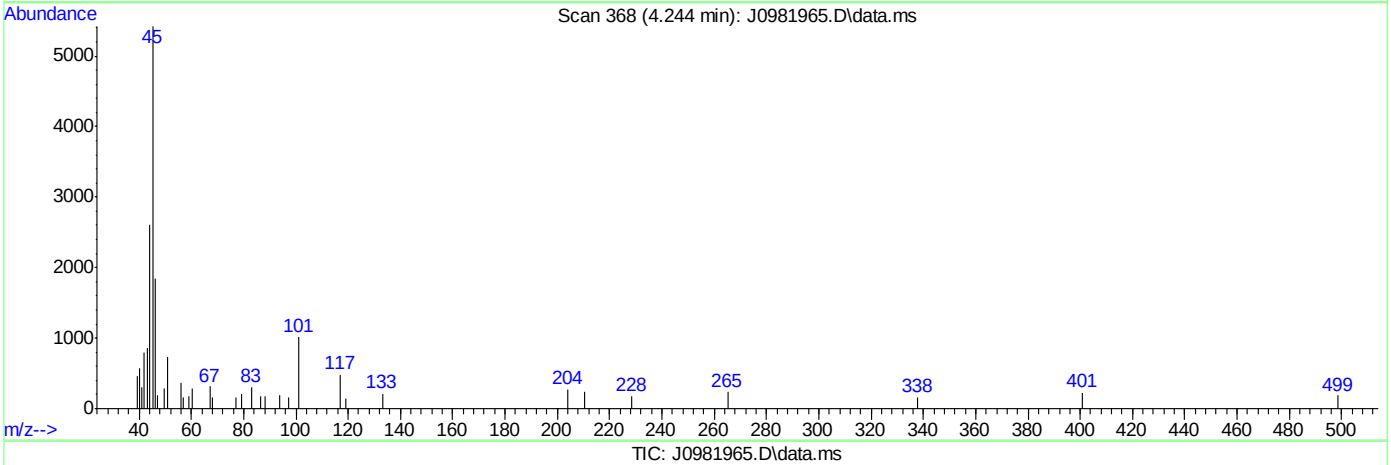
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(107) Ethanol

4.244min (-0.035) 417.52ug/L

response 21135

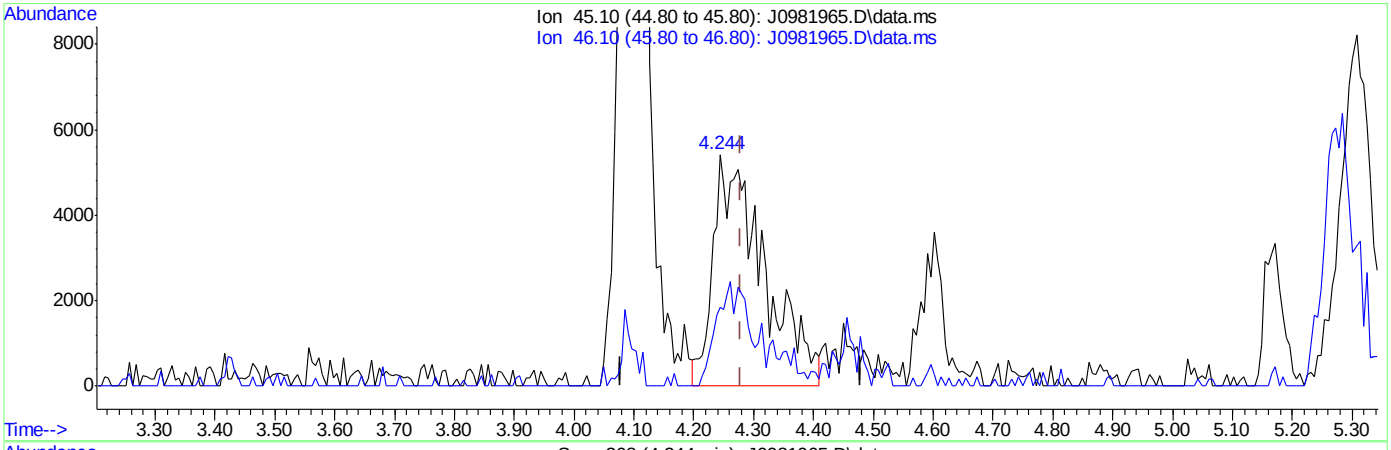
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	38.65
0.00	0.00	0.00
0.00	0.00	0.00

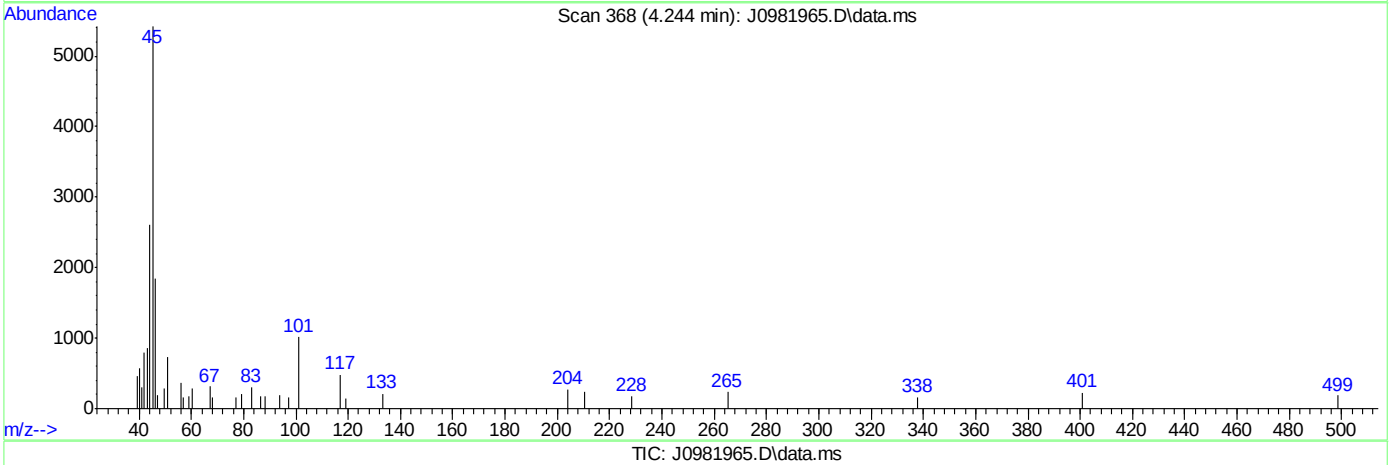
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981965.D
Acq On : 4 Jan 2017 5:18 pm
Operator : darshnap
Sample : fa39942-11ma ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:51 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981965.D\data.ms

(107) Ethanol

4.244min (-0.035) 621.94ug/L m

response 31487

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	34.14
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
01/05/17 11:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 08:00:31 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	593877	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.825	117	418104	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	217321	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	83240	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.906	113	141854	50.60	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.20%			
46) 1,2-Dichloroethane-d4	7.458	65	205454	54.49	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.98%			
57) Toluene-d8	9.279	98	551145	49.64	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.28%			
79) 4-Bromofluorobenzene	12.035	95	226773	52.31	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.646	85	218760	33.87	ug/L	96
3) Chloromethane	2.863	50	353773	37.81	ug/L	93
4) Vinyl Chloride	3.010	62	233240	41.05	ug/L	98
5) 1,3-Butadiene	3.004	54	33782	9.41	ug/L	94
6) Bromomethane	3.427	94	89341	29.04	ug/L	93
7) Chloroethane	3.580	64	85015	39.96	ug/L	99
8) Trichlorofluoromethane	3.803	101	294557m	42.64	ug/L	
9) Ethyl Ether	4.097	59	123165	24.44	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.320	67	272237	43.69	ug/L	92
11) 1,1-Dichloroethene	4.367	61	247032	28.51	ug/L	91
12) Freon 113	4.432	101	202773	38.51	ug/L	89
13) Carbon Disulfide	4.444	76	368540	20.37	ug/L	98
14) Iodomethane	4.561	142	185899	20.20	ug/L	95
15) Allyl chloride	4.896	41	232991	22.43	ug/L	98
16) Methylene Chloride	5.019	49	243754	26.27	ug/L	95
17) Acetone	5.037	58	58678	122.79	ug/L #	83
18) Methyl acetate	5.166	74	92853	123.44	ug/L #	85
19) trans-1,2-Dichloroethene	5.202	61	229553	27.27	ug/L	95
20) Hexane	5.272	56	139520	25.70	ug/L #	79
21) Methyl Tert Butyl Ether	5.313	73	399252	23.89	ug/L	97
22) Acetonitrile	5.572	40	101175	251.26	ug/L	88
23) Di-isopropyl ether	5.689	45	604488	26.92	ug/L	95
24) Chloroprene	5.842	53	224900	23.24	ug/L	95
25) 1,1-Dichloroethane	5.871	63	287609	28.56	ug/L	95
26) Acrylonitrile	5.901	53	274953	130.73	ug/L	97
27) ETBE	6.089	59	475494	22.96	ug/L	97
28) Vinyl acetate	6.077	43	1584631	116.38	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	151035	24.29	ug/L	96
30) 2,2-Dichloropropane	6.576	77	202026	23.35	ug/L	85
31) Bromochloromethane	6.659	128	61957	21.73	ug/L #	72
32) Cyclohexane	6.706	56	296675	26.25	ug/L	93
33) Chloroform	6.712	83	242949	23.78	ug/L	95
34) Ethyl acetate	6.782	43	652083	125.43	ug/L	96

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 08:00:31 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.894	42	50120	29.25	ug/L		87
37)	Carbon Tetrachloride	6.911	117	152748	21.61	ug/L		96
38)	1,1,1-Trichloroethane	6.970	97	205513	22.99	ug/L		97
39)	2-Butanone	7.000	43	329869	132.36	ug/L		96
40)	1,1-Dichloropropene	7.082	75	187524	25.95	ug/L		95
41)	tert-Butyl Formate	7.164	59	2871	0.48	ug/L	#	60
42)	Propionitrile	7.305	54	193740	249.44	ug/L		87
43)	Methacrylonitrile	7.334	41	913311	269.89	ug/L		98
44)	Benzene	7.329	78	545436	28.77	ug/L		96
45)	TAME	7.411	73	407912	24.14	ug/L		92
47)	1,2-Dichloroethane	7.522	62	202188	25.81	ug/L		95
48)	Trichloroethene	7.910	95	145666	26.28	ug/L		97
49)	Methylcyclohexane	7.934	83	260092	26.21	ug/L		94
50)	Dibromomethane	8.339	93	75476	22.48	ug/L		93
51)	1,2-Dichloropropane	8.427	63	157230	26.68	ug/L		89
52)	Bromodichloromethane	8.468	83	159169	21.66	ug/L		97
53)	Methyl methacrylate	8.568	41	142207	25.86	ug/L		89
55)	cis-1,3-Dichloropropene	9.085	75	204677	22.71	ug/L		97
58)	Toluene	9.332	91	572723	27.64	ug/L		97
59)	2-Nitropropane	9.532	41	177965	130.26	ug/L		97
60)	4-Methyl-2-pentanone	9.649	43	753420	130.86	ug/L		97
61)	trans-1,3-Dichloropropene	9.714	75	183833	24.17	ug/L		93
62)	Tetrachloroethene	9.732	166	125312	19.85	ug/L		94
63)	Ethyl methacrylate	9.814	69	160139	22.25	ug/L		93
64)	1,1,2-Trichloroethane	9.879	83	101789	26.55	ug/L		95
65)	Dibromochloromethane	10.078	129	101063	19.66	ug/L		86
66)	1,3-Dichloropropane	10.161	76	209726	24.71	ug/L		91
67)	1,2-Dibromoethane	10.337	107	118844	24.85	ug/L		92
68)	2-hexanone	10.466	43	513528	136.57	ug/L		94
69)	1-Chlorohexane	10.778	91	196250	25.50	ug/L		93
70)	Ethylbenzene	10.842	91	650512	28.00	ug/L		98
71)	Chlorobenzene	10.842	112	342152	24.01	ug/L		89
72)	1,1,1,2-Tetrachloroethane	10.889	131	110090	20.95	ug/L		96
73)	m,p-Xylene	10.977	91	986316	49.91	ug/L		97
74)	o-Xylene	11.418	91	525445	24.66	ug/L		98
75)	Styrene	11.465	104	376361	25.58	ug/L		94
76)	Bromoform	11.530	173	57241	15.88	ug/L		97
77)	Isopropylbenzene	11.718	105	630896	25.42	ug/L		96
80)	cis-1,4-Dichloro-2-butene	12.070	53	23021	13.22	ug/L		87
81)	n-Propylbenzene	12.141	91	803494	27.85	ug/L		93
82)	Bromobenzene	12.164	156	145917	24.26	ug/L		98
83)	1,1,2,2-Tetrachloroethane	12.199	83	164945	26.16	ug/L		99
84)	1,3,5-Trimethylbenzene	12.323	105	535336	27.99	ug/L		96
85)	2-Chlorotoluene	12.329	91	525465	26.77	ug/L		95
86)	trans-1,4-Dichloro-2-B...	12.382	53	28886	15.07	ug/L		92
87)	1,2,3-Trichloropropane	12.358	110	43115	26.48	ug/L		80
88)	Cyclohexanone	12.429	55	27180	108.23	ug/L		92
89)	4-Chlorotoluene	12.499	91	498987	26.64	ug/L		99
90)	a-Methyl Styrene	12.734	118	4265	0.36	ug/L	#	1
91)	tert-Butylbenzene	12.664	91	328684	26.37	ug/L		90

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 08:00:31 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.728	105	532043	28.08	ug/L		94
93)	Pentachloroethane	12.716	167	73219	19.73	ug/L		97
94)	sec-Butylbenzene	12.846	105	723674	27.89	ug/L		96
95)	4-Isopropyltoluene	12.981	119	578946	28.32	ug/L		94
96)	1,3-Dichlorobenzene	13.116	146	301178	24.59	ug/L		95
97)	1,4-Dichlorobenzene	13.198	146	312084	24.55	ug/L		95
98)	n-Butylbenzene	13.410	92	354996	28.46	ug/L		95
99)	Benzyl Chloride	13.427	126	45031	17.44	ug/L	#	30
100)	1,2-Dichlorobenzene	13.627	146	357284	28.97	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.362	75	31001	24.84	ug/L	#	73
102)	Hexachlorobutadiene	14.908	225	103741	19.95	ug/L		96
103)	1,2,4-Trichlorobenzene	14.955	180	208711	23.86	ug/L		95
104)	Naphthalene	15.237	128	528333	31.21	ug/L		98
105)	1,2,3-Trichlorobenzene	15.407	180	195412	24.07	ug/L		97
107)	Ethanol	4.279	45	33640m	533.33	ug/L		
108)	acrolein	4.737	56	115579	99.88	ug/L		98
109)	Tert Butyl Alcohol	5.354	59	243946	345.87	ug/L		90
110)	tert Amyl alcohol	7.552	59	116499	212.72	ug/L		97
111)	Isobutyl alcohol	7.428	42	104621	472.91	ug/L	#	80
112)	1,4-Dioxane	8.651	88	27976	480.70	ug/L		88
113)	3,3-Dimethyl-1-butanol	10.413	57	676540	1190.13	ug/L		94

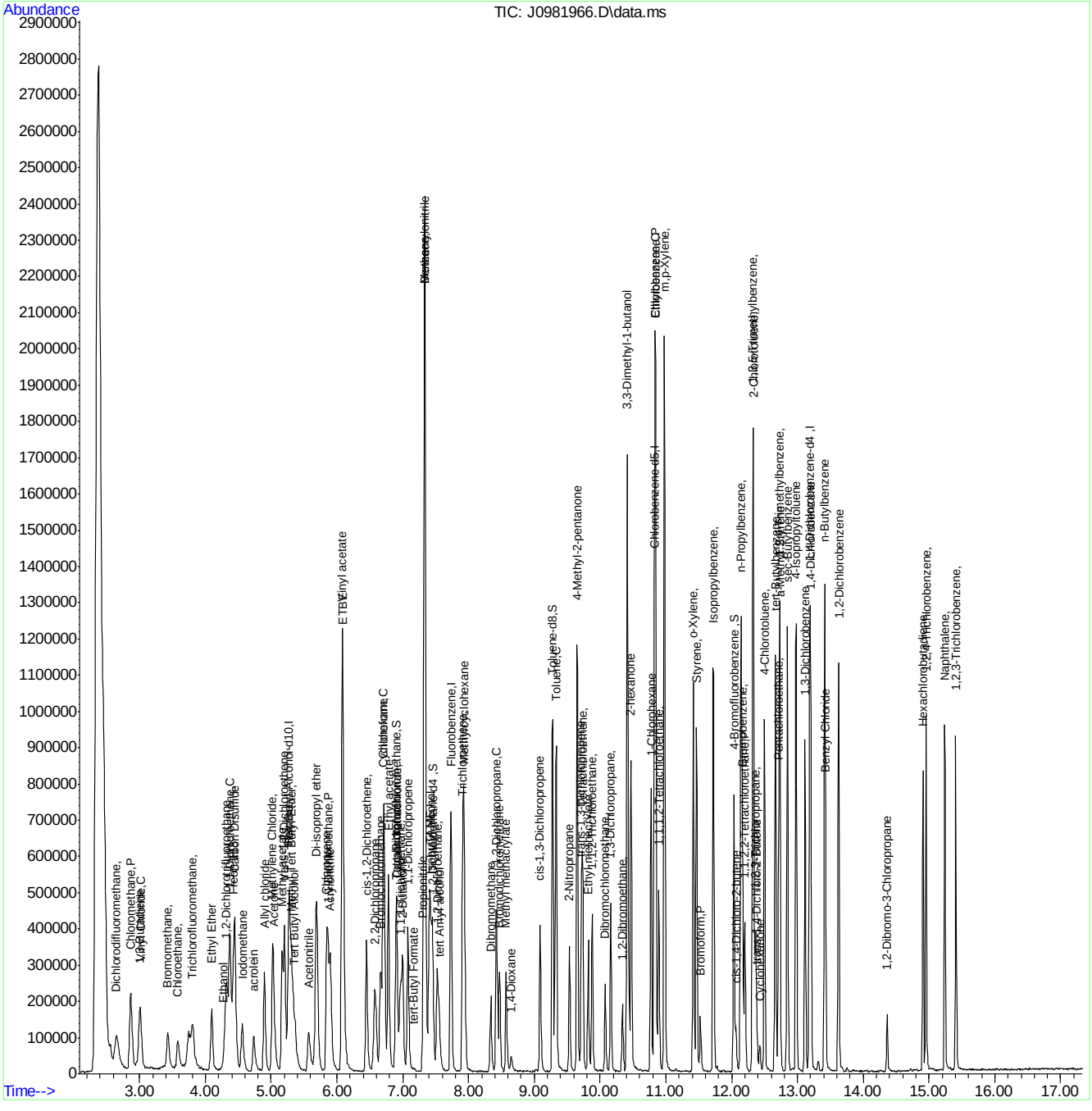
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 08:00:31 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



Manual Integration Approval Summary

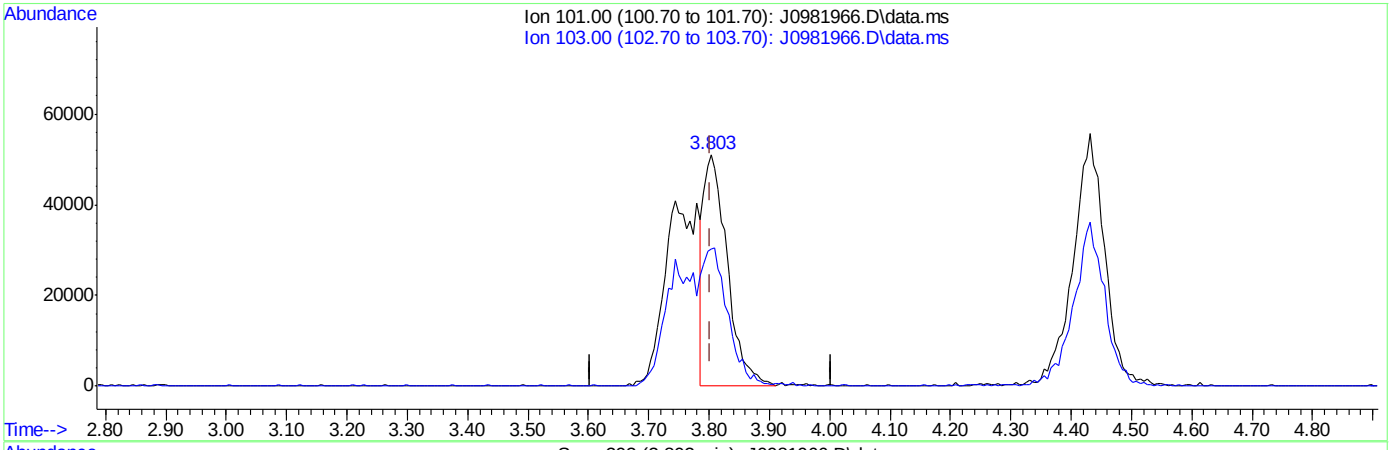
Sample Number:	FA39942-11MSD	**Method:**	SW846 8260C
Lab FileID:	J0981966.D	**Analyst approved:**	01/05/17 09:27 Darshna Patel
Injection Time:	01/04/17 17:41	**Supervisor approved:**	01/05/17 11:20 Melissa Mangual

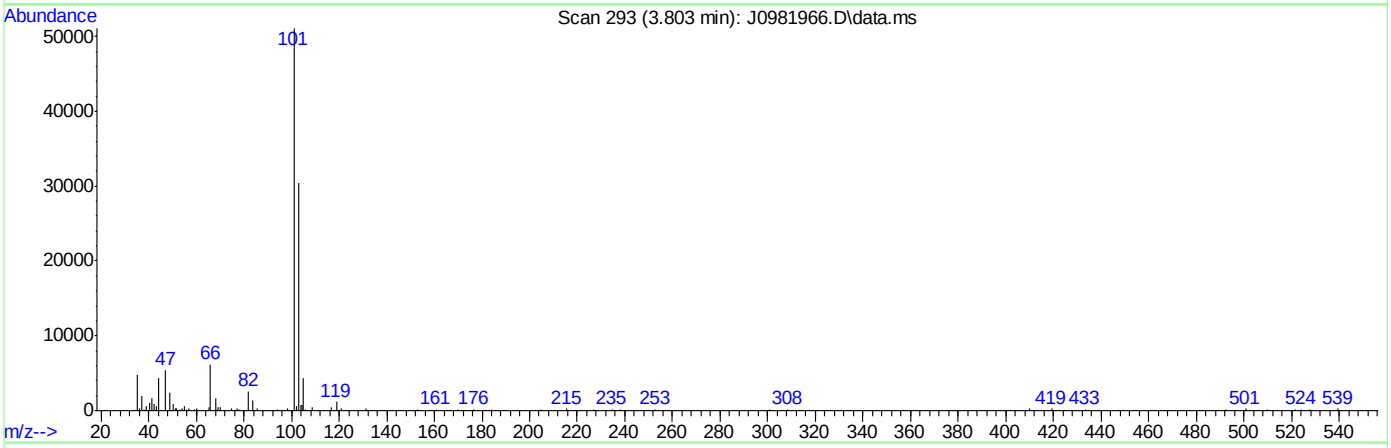
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981966.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 19.81ug/L

response 136830

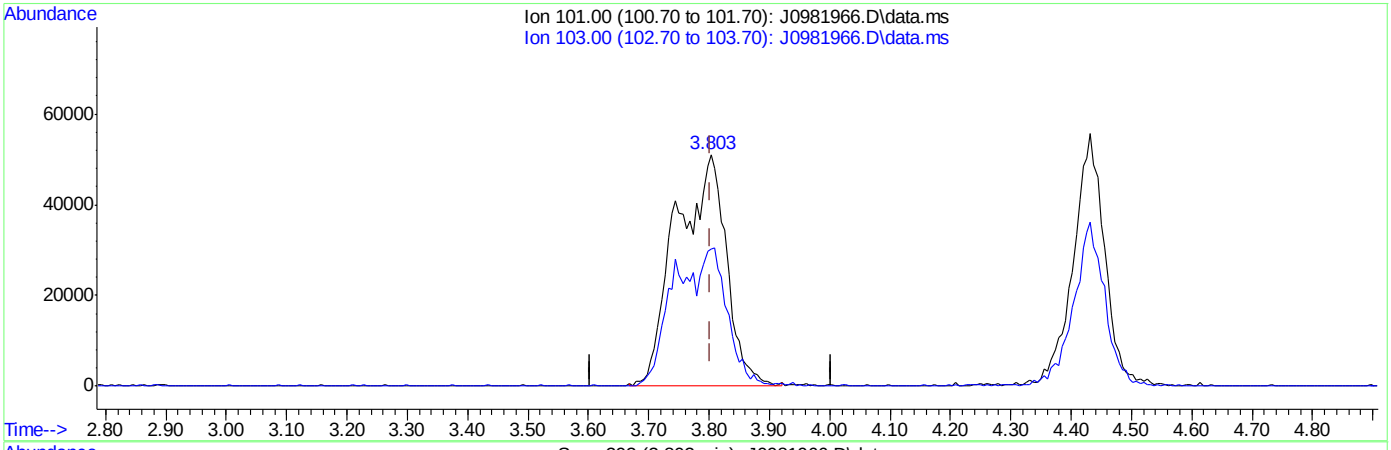
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	58.31
0.00	0.00	0.00
0.00	0.00	0.00

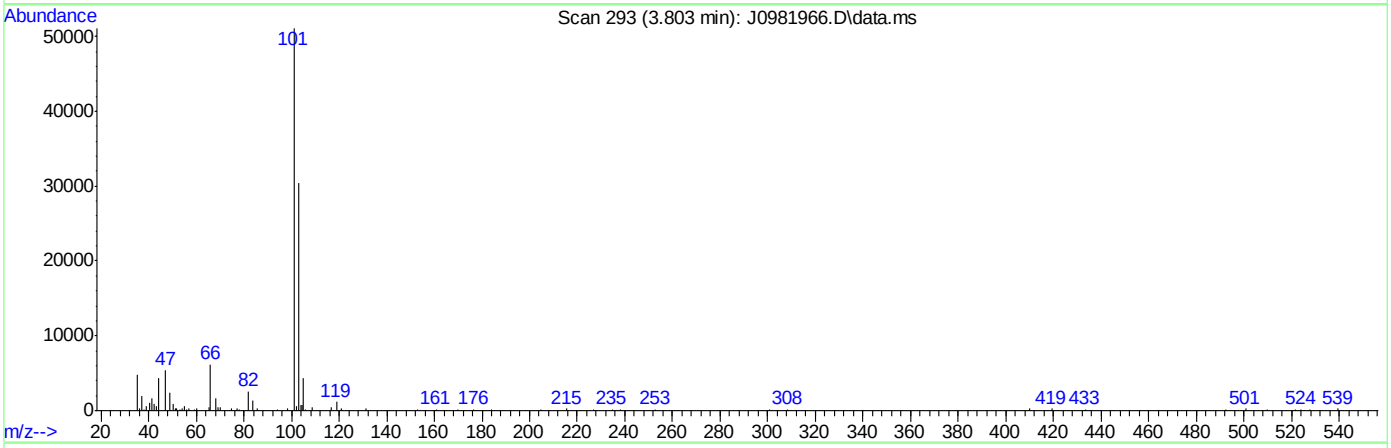
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981966.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 42.64ug/L m

response 294557

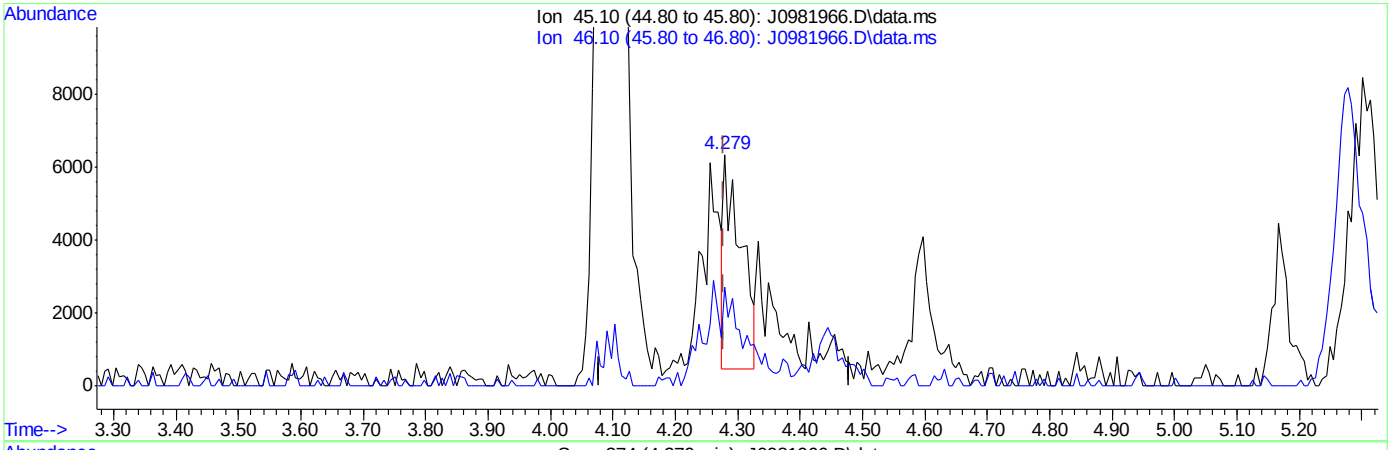
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	59.45
0.00	0.00	0.00
0.00	0.00	0.00

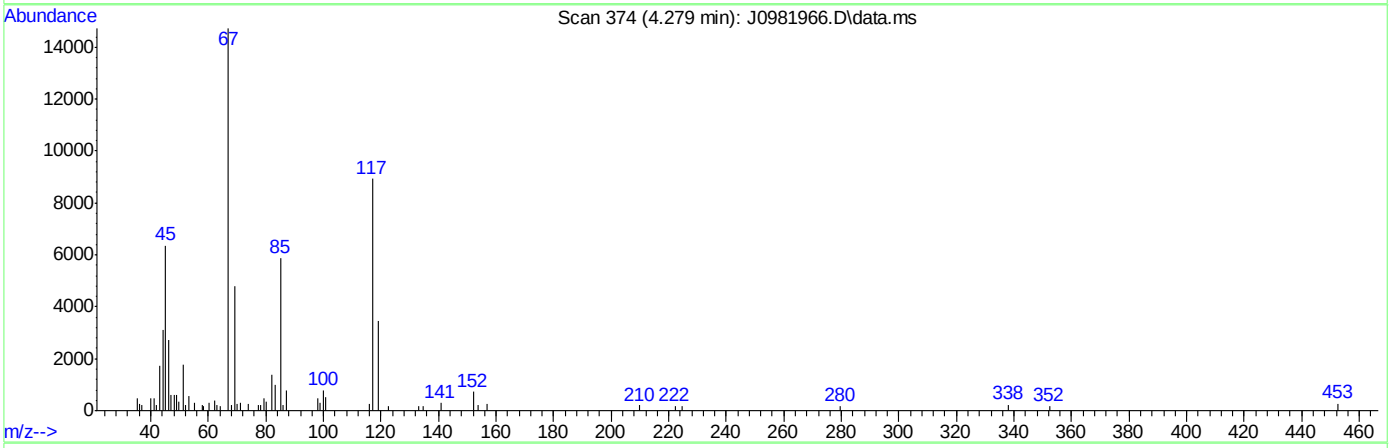
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981966.D\data.ms

(107) Ethanol

4.279min (+0.000) 179.28ug/L

response 11306

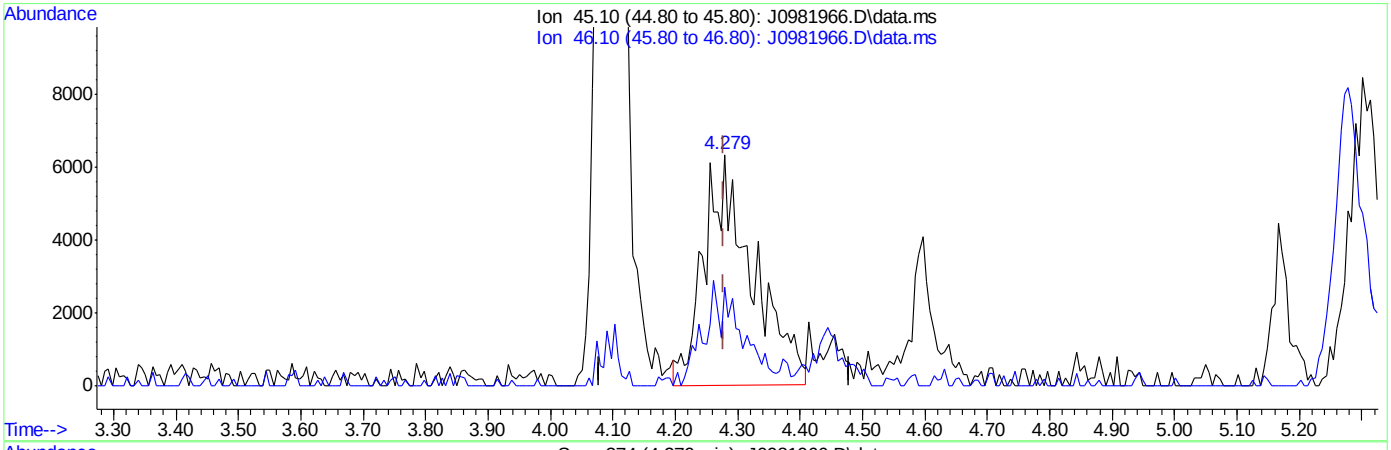
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	37.97
0.00	0.00	0.00
0.00	0.00	0.00

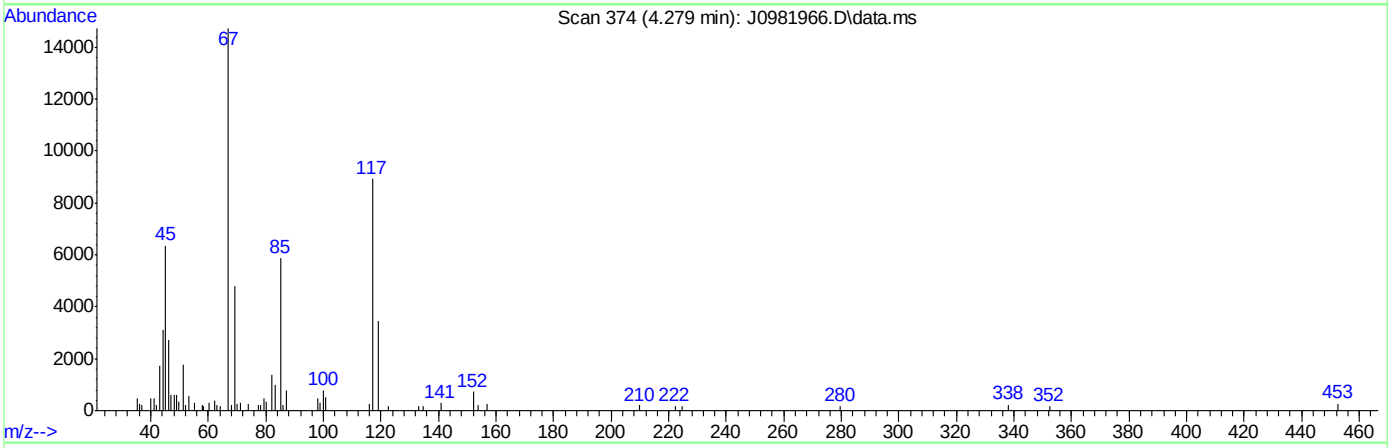
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981966.D
Acq On : 4 Jan 2017 5:41 pm
Operator : darshnap
Sample : fa39942-11msd ma Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 05 07:40:54 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981966.D\data.ms

(107) Ethanol

4.279min (+0.000) 533.33ug/L m

response 33640

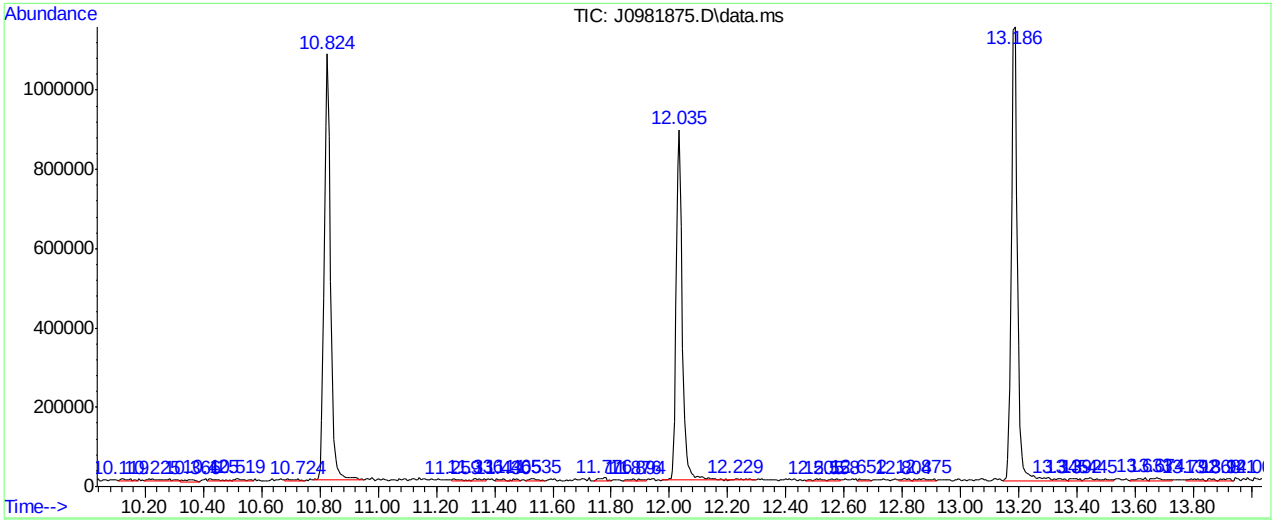
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	42.83
0.00	0.00	0.00
0.00	0.00	0.00

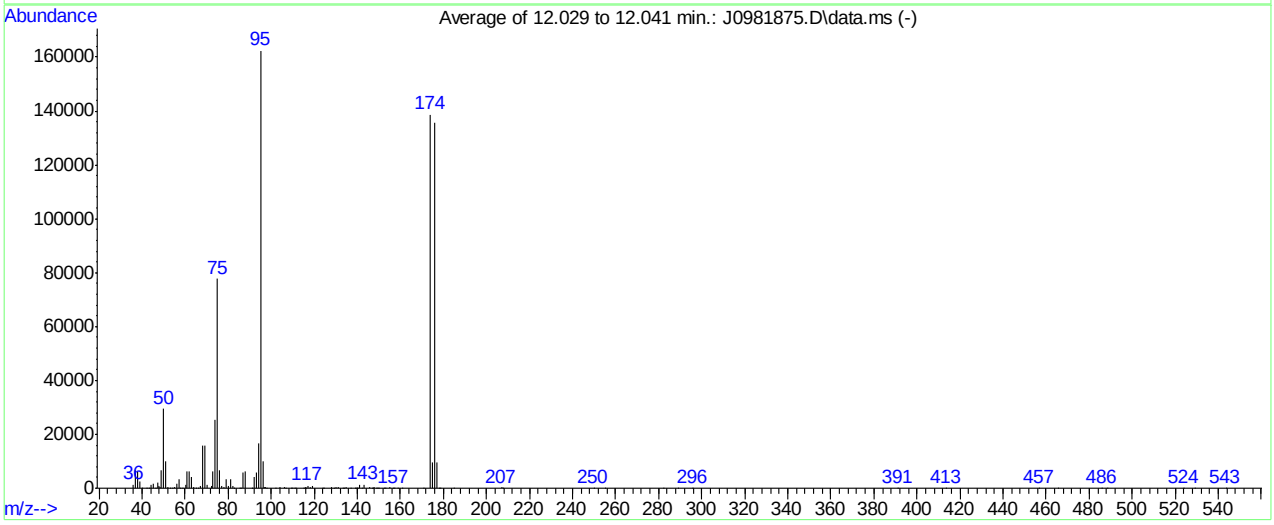
SGS ACCUTEST FA39907

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\123016\J0981875.D Vial: 1
Acq On : 30 Dec 2016 12:21 pm Operator: melissam
Sample : BFB Inst : MSVOA6
Misc : MS35465,vj5529,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1693, 1694, 1695; Background Corrected with Scan 1686

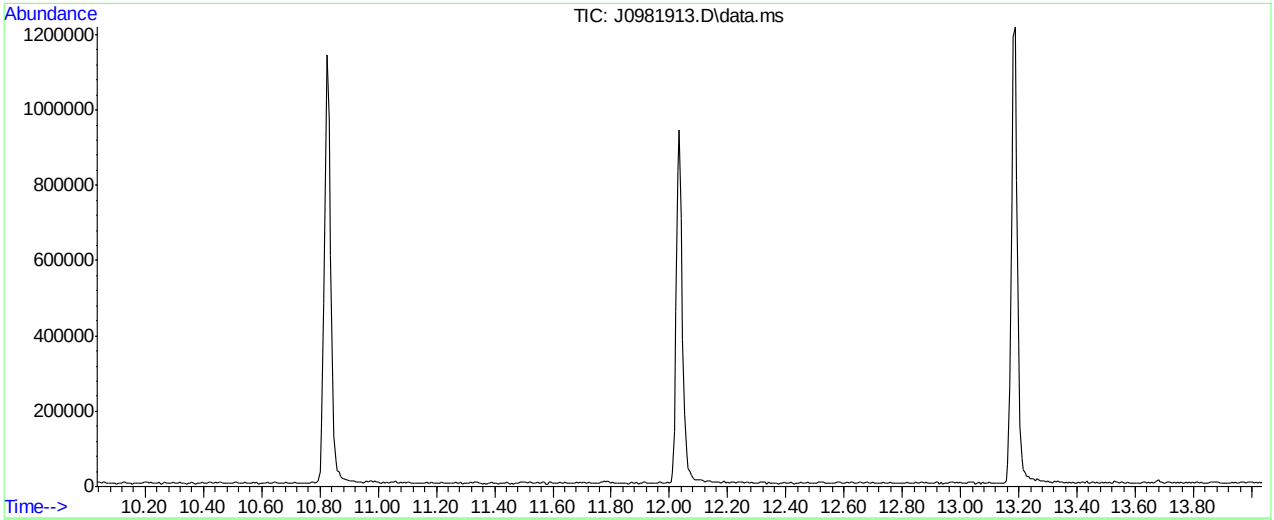
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.2	29543	PASS
75	95	30	60	47.9	77797	PASS
95	95	100	100	100.0	162453	PASS
96	95	5	9	6.1	9903	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	85.4	138717	PASS
175	174	5	9	6.8	9378	PASS
176	174	95	101	97.7	135477	PASS
177	176	5	9	7.1	9616	PASS

J0981875.D MSJ123016.M Tue Jan 03 10:04:04 2017

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\010317\J0981913.D Vial: 1
Acq On : 3 Jan 2017 8:36 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS35465,VJ5530,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 1693, 1694, 1695; Background Corrected with Scan 1686

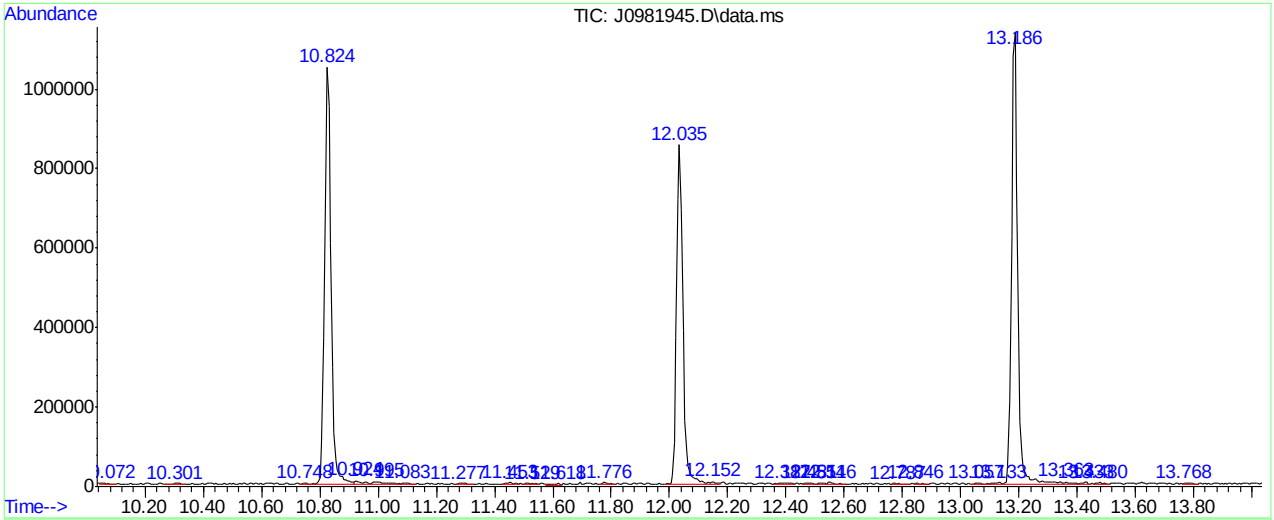
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	34517	PASS
75	95	30	60	48.4	82979	PASS
95	95	100	100	100.0	171349	PASS
96	95	5	9	6.4	10981	PASS
173	174	0.00	2	0.1	188	PASS
174	95	50	100	80.6	138147	PASS
175	174	5	9	7.3	10114	PASS
176	174	95	101	96.9	133837	PASS
177	176	5	9	6.3	8421	PASS

J0981913.D MSJ123016.M Tue Jan 03 10:55:27 2017

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\010417\J0981945.D Vial: 1
Acq On : 4 Jan 2017 8:13 am Operator: darshnap
Sample : BFB Inst : MSVOA6
Misc : MS35986,VJ5532,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ123016.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 1693, 1694, 1695; Background Corrected with Scan 1686

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.9	35117	PASS
75	95	30	60	49.5	79232	PASS
95	95	100	100	100.0	160107	PASS
96	95	5	9	7.3	11632	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.8	119813	PASS
175	174	5	9	7.2	8617	PASS
176	174	95	101	96.6	115707	PASS
177	176	5	9	6.3	7338	PASS

J0981945.D MSJ123016.M Wed Jan 04 10:06:38 2017

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 08:16:27 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	711241	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	528113	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	273614	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	90811	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	175184	43.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 86.02%			
46) 1,2-Dichloroethane-d4	7.452	65	232869	40.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 81.90%			
57) Toluene-d8	9.279	98	691212	52.80	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.60%			
79) 4-Bromofluorobenzene	12.035	95	281376	62.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 124.22%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.651	85	6792	0.81	ug/L	82
3) Chloromethane	2.863	50	10848	0.75	ug/L	83
4) Vinyl Chloride	3.004	62	6478	0.51	ug/L	76
5) 1,3-Butadiene	2.998	54	6412	0.63	ug/L #	79
6) Bromomethane	3.421	94	6497m	0.87	ug/L	
7) Chloroethane	3.592	64	4824m	0.82	ug/L	
8) Trichlorofluoromethane	3.803	101	7578m	0.39	ug/L	
9) Ethyl Ether	4.103	59	5922	0.78	ug/L #	76
10) 1,2-Dichlorotrifluoroe...	4.344	67	7306m	0.74	ug/L	
11) 1,1-Dichloroethene	4.373	61	9084	0.72	ug/L	75
12) Freon 113	4.432	101	4756m	0.53	ug/L	
13) Carbon Disulfide	4.449	76	19440	0.74	ug/L	95
14) Iodomethane	4.561	142	10505	0.77	ug/L #	74
15) Allyl chloride	4.896	41	14546	0.95	ug/L #	72
16) Methylene Chloride	5.025	49	16882	1.08	ug/L	88
17) Acetone	5.055	58	2937	4.26	ug/L #	44
18) Methyl acetate	5.196	74	3660	3.40	ug/L #	14
19) trans-1,2-Dichloroethene	5.207	61	9348	0.82	ug/L	87
20) Hexane	5.278	56	6180	0.64	ug/L #	52
21) Methyl Tert Butyl Ether	5.307	73	18635	0.89	ug/L	78
22) Acetonitrile	5.583	40	6093m	10.17	ug/L	
23) Di-isopropyl ether	5.689	45	24244	0.74	ug/L	81
24) Chloroprene	5.848	53	10405	0.72	ug/L	94
25) 1,1-Dichloroethane	5.865	63	11264	0.67	ug/L	93
26) Acrylonitrile	5.918	53	10405m	3.16	ug/L	
27) ETBE	6.095	59	22588	0.77	ug/L	89
28) Vinyl acetate	6.100	43	67633	3.05	ug/L	97
29) cis-1,2-Dichloroethene	6.453	96	7680	1.04	ug/L #	77
30) 2,2-Dichloropropane	6.582	77	9775	0.83	ug/L	93
31) Bromochloromethane	6.665	128	3874	0.95	ug/L #	75
32) Cyclohexane	6.706	56	11643m	0.71	ug/L	
33) Chloroform	6.723	83	12871	0.84	ug/L	93
34) Ethyl acetate	6.794	43	27853	3.20	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 08:16:27 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.911	42	4098	1.73	ug/L	#	69
37)	Carbon Tetrachloride	6.905	117	7215	0.60	ug/L	#	58
38)	1,1,1-Trichloroethane	6.976	97	9704	0.75	ug/L		74
39)	2-Butanone	7.029	43	18192m	5.41	ug/L		
40)	1,1-Dichloropropene	7.076	75	7930	1.53	ug/L	#	78
41)	tert-Butyl Formate	7.164	59	71755	10.35	ug/L	#	71
42)	Propionitrile	7.317	54	9682	8.22	ug/L		75
43)	Methacrylonitrile	7.340	41	47259	8.37	ug/L		98
44)	Benzene	7.334	78	20978	0.82	ug/L		87
45)	TAME	7.405	73	16964	0.75	ug/L		85
47)	1,2-Dichloroethane	7.528	62	8808	0.71	ug/L		68
48)	Trichloroethene	7.916	95	6435	0.84	ug/L	#	76
49)	Methylcyclohexane	7.934	83	9546	0.66	ug/L	#	82
50)	Dibromomethane	8.345	93	3788	0.80	ug/L		89
51)	1,2-Dichloropropane	8.433	63	6200	0.79	ug/L		89
52)	Bromodichloromethane	8.474	83	8761	0.84	ug/L		85
53)	Methyl methacrylate	8.586	41	9454m	1.39	ug/L		
54)	2-Chloroethyl vinyl ether	8.991	63	18874	3.60	ug/L		92
55)	cis-1,3-Dichloropropene	9.085	75	9138	0.70	ug/L		95
58)	Toluene	9.332	91	24452	0.95	ug/L		98
59)	2-Nitropropane	9.538	41	9882m	4.80	ug/L		
60)	4-Methyl-2-pentanone	9.655	43	34111	4.14	ug/L		90
61)	trans-1,3-Dichloropropene	9.726	75	8081	0.79	ug/L		86
62)	Tetrachloroethene	9.743	166	5405	0.67	ug/L	#	83
63)	Ethyl methacrylate	9.837	69	9255	1.16	ug/L		77
64)	1,1,2-Trichloroethane	9.884	83	3784	0.70	ug/L	#	77
65)	Dibromochloromethane	10.084	129	5556	0.85	ug/L		86
66)	1,3-Dichloropropane	10.160	76	10465	0.94	ug/L		78
67)	1,2-Dibromoethane	10.354	107	5223	0.85	ug/L		77
68)	2-hexanone	10.478	43	21891m	3.70	ug/L		
69)	1-Chlorohexane	10.777	91	8106m	0.85	ug/L		
70)	Ethylbenzene	10.842	91	28006	0.95	ug/L		96
71)	Chlorobenzene	10.848	112	15492	0.79	ug/L		98
72)	1,1,1,2-Tetrachloroethane	10.895	131	6080	0.78	ug/L		90
73)	m,p-Xylene	10.977	91	42150	1.56	ug/L		90
74)	o-Xylene	11.424	91	25600	0.94	ug/L		97
75)	Styrene	11.471	104	14812m	0.78	ug/L		
76)	Bromoform	11.529	173	4076	0.93	ug/L	#	68
77)	Isopropylbenzene	11.723	105	28179	0.85	ug/L		89
81)	n-Propylbenzene	12.146	91	35779	0.87	ug/L		95
82)	Bromobenzene	12.164	156	7444	1.01	ug/L		99
83)	1,1,2,2-Tetrachloroethane	12.199	83	9242	1.21	ug/L		88
84)	1,3,5-Trimethylbenzene	12.323	105	23048	0.88	ug/L		91
85)	2-Chlorotoluene	12.334	91	25678m	0.92	ug/L		
86)	trans-1,4-Dichloro-2-B...	12.387	53	2641	1.02	ug/L		86
87)	1,2,3-Trichloropropane	12.364	110	1863	0.78	ug/L		78
88)	Cyclohexanone	12.428	55	2518m	8.38	ug/L		
89)	4-Chlorotoluene	12.505	91	21367	0.83	ug/L		91
90)	a-Methyl Styrene	12.593	118	15663	1.06	ug/L		92
91)	tert-Butylbenzene	12.663	91	17288	0.97	ug/L		91

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

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Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.734	105	22008	0.81	ug/L	92
93) Pentachloroethane	12.722	167	5131	1.03	ug/L #	78
94) sec-Butylbenzene	12.851	105	31466	0.85	ug/L	95
95) 4-Isopropyltoluene	12.981	119	23356	0.85	ug/L	96
96) 1,3-Dichlorobenzene	13.122	146	14356	0.93	ug/L	87
97) 1,4-Dichlorobenzene	13.198	146	16533m	1.00	ug/L	
98) n-Butylbenzene	13.421	92	14260	0.87	ug/L #	71
99) Benzyl Chloride	13.433	126	2868	0.94	ug/L #	73
100) 1,2-Dichlorobenzene	13.633	146	16885	1.09	ug/L	83
101) 1,2-Dibromo-3-Chloropr...	14.367	75	1629	1.16	ug/L #	70
102) Hexachlorobutadiene	14.914	225	6062	1.12	ug/L	93
103) 1,2,4-Trichlorobenzene	14.961	180	10778	1.08	ug/L	85
104) Naphthalene	15.243	128	19413	1.00	ug/L	88
105) 1,2,3-Trichlorobenzene	15.413	180	10090	1.04	ug/L	94
108) acrolein	4.755	56	5399m	3.05	ug/L	
109) Tert Butyl Alcohol	5.366	59	9150m	10.12	ug/L	
110) tert Amyl alcohol	7.546	59	6454	9.23	ug/L	83
111) Isobutyl alcohol	7.434	42	5811	15.44	ug/L #	71
112) 1,4-Dioxane	8.674	88	1375m	16.43	ug/L	
113) 3,3-Dimethyl-1-butanol	10.419	57	32283	38.03	ug/L	87

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

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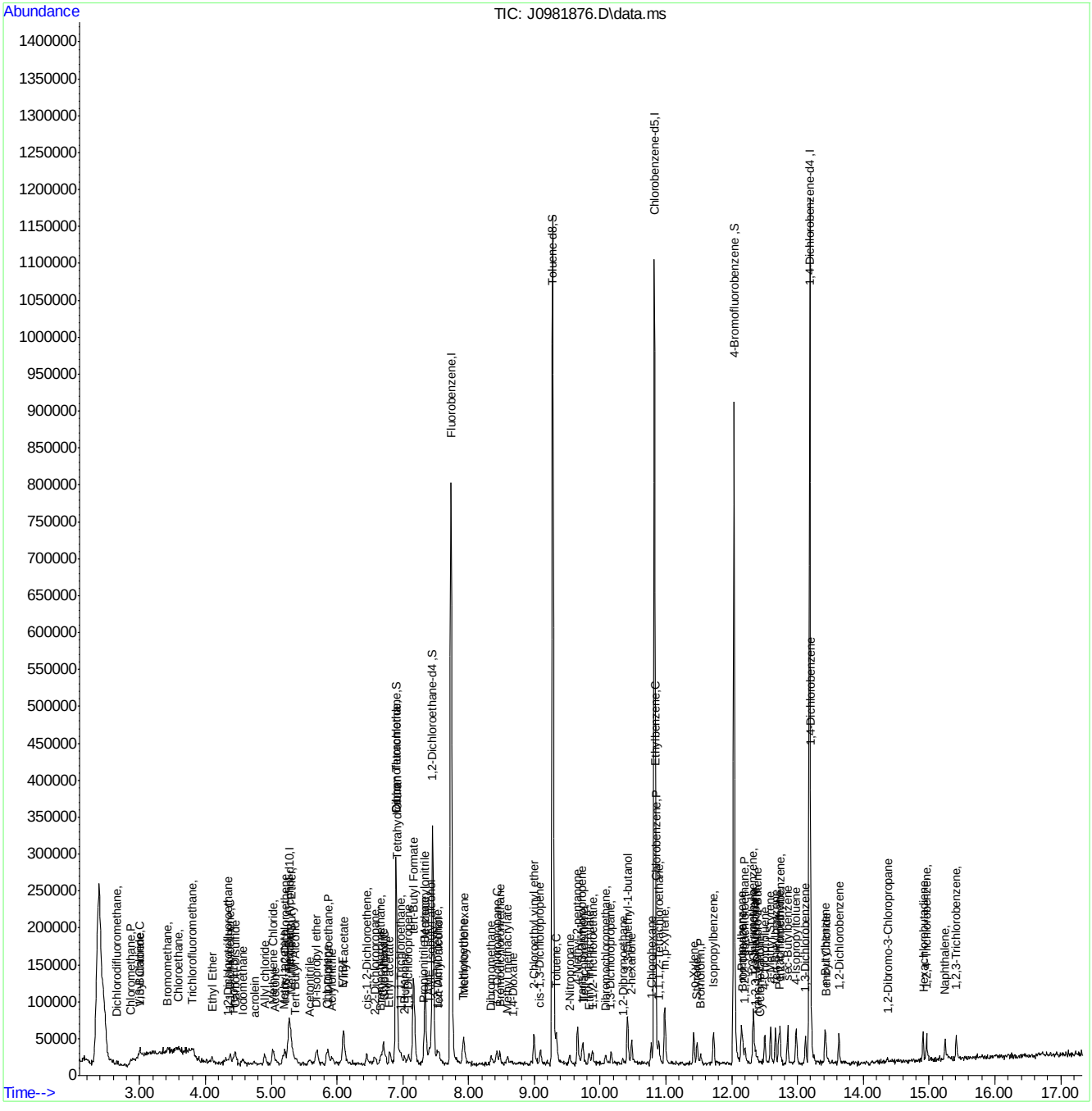

SGS ACCUTEST FA39907

Manual Integration Approval Summary

Sample Number: VJ5529-IC5529 **Method:** SW846 8260B
Lab FileID: J0981876.D **Analyst approved:** 01/03/17 10:07 Darshna Patel
Injection Time: 12/30/16 12:50 **Supervisor approved:** 01/03/17 15:48 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Bromide	74-83-9		3.42	Poor instrument integration
Chloroethane	75-00-3		3.59	Poor instrument integration
Trichlorofluoromethane	75-69-4		3.80	Split peak
1,2-Dichlorotrifluoroethane	354-23-4		4.34	Poor instrument integration
Freon 113	76-13-1		4.43	Poor instrument integration
Acrolein	107-02-8		4.75	Poor instrument integration
Tert-Butyl Alcohol	75-65-0		5.37	Poor instrument integration
Acetonitrile	75-05-8		5.58	Poor instrument integration
Acrylonitrile	107-13-1		5.92	Poor instrument integration
Cyclohexane	110-82-7		6.71	Poor instrument integration
2-Butanone (MEK)	78-93-3		7.03	Poor instrument integration
Methyl Methacrylate	80-62-6		8.59	Poor instrument integration
1,4-Dioxane	123-91-1		8.67	Poor instrument integration
2-Nitropropane	79-46-9		9.54	Poor instrument integration
2-Hexanone	591-78-6		10.48	Poor instrument integration
1-Chlorohexane	544-10-5		10.78	Poor instrument integration
Styrene	100-42-5		11.47	Poor instrument integration
o-Chlorotoluene	95-49-8		12.33	Poor instrument integration
Cyclohexanone	108-94-1		12.43	Poor instrument integration
1,4-Dichlorobenzene	106-46-7		13.20	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
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Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
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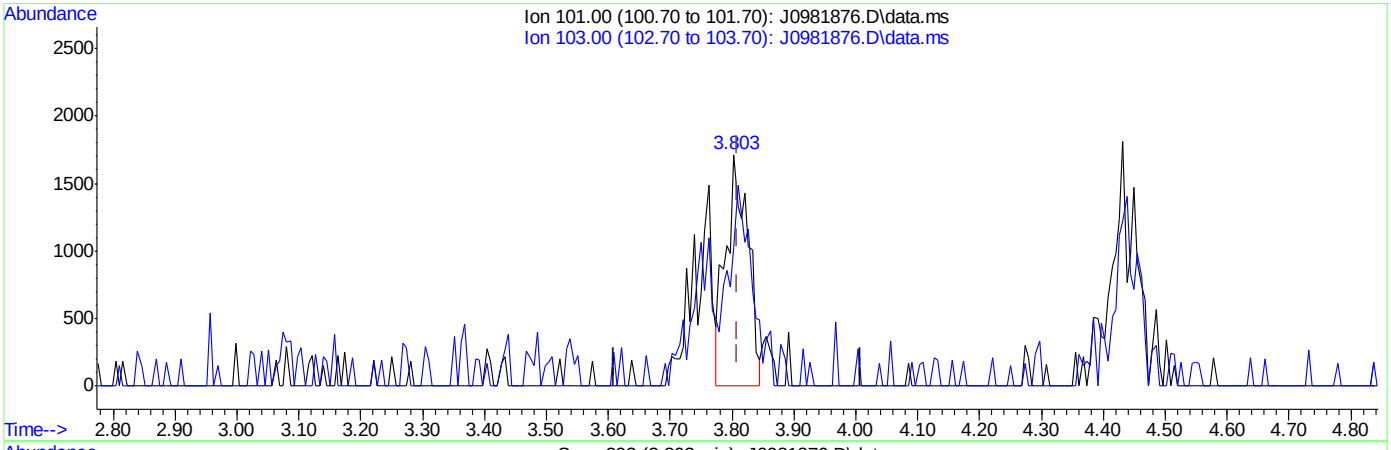

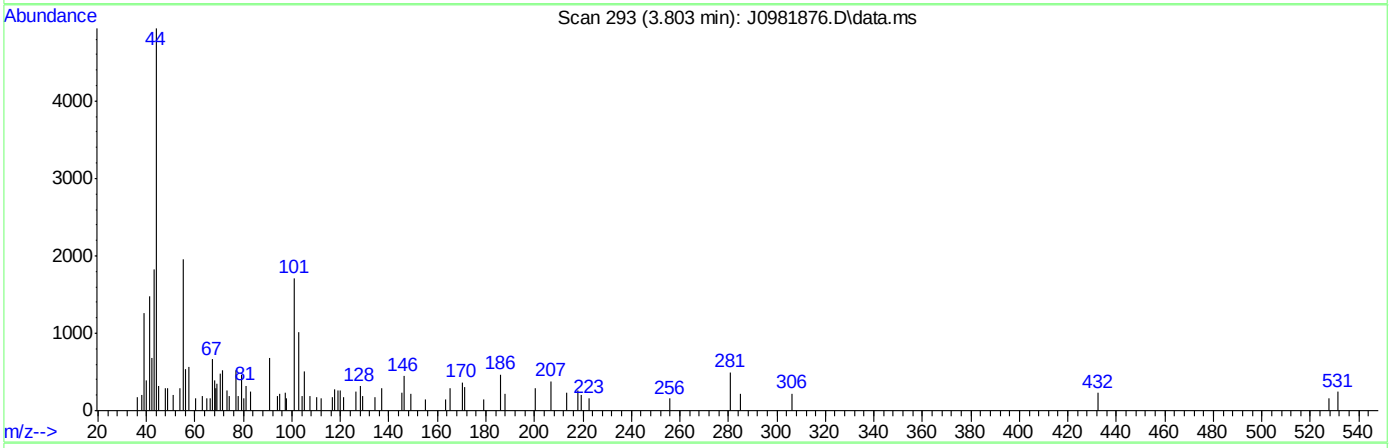

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 0.22ug/L

response 4225

Ion	Exp%	Act%
101.00	100	100
103.00	61.00	34.63
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
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Operator : melissam
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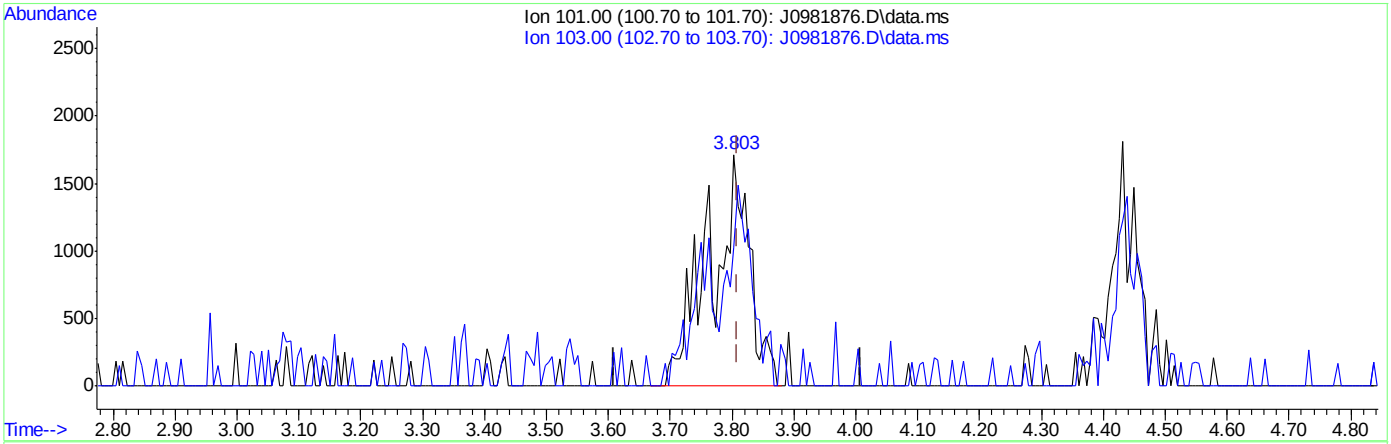

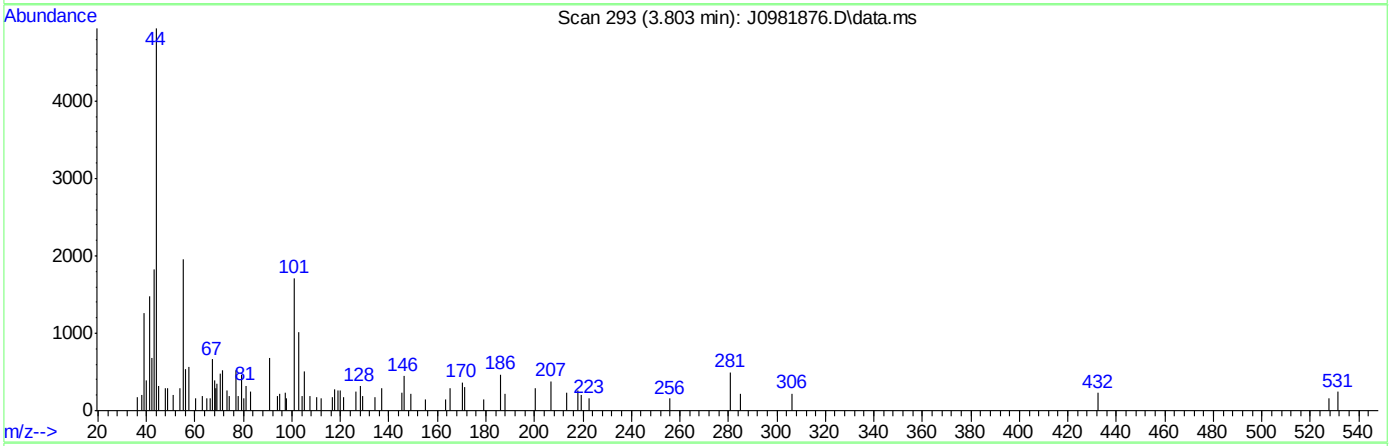

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 0.39ug/L m

response 7578

Ion	Exp%	Act%
101.00	100	100
103.00	61.00	59.57
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

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Data File : J0981876.D
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Sample : ic5529-1 Inst : MSVOA6
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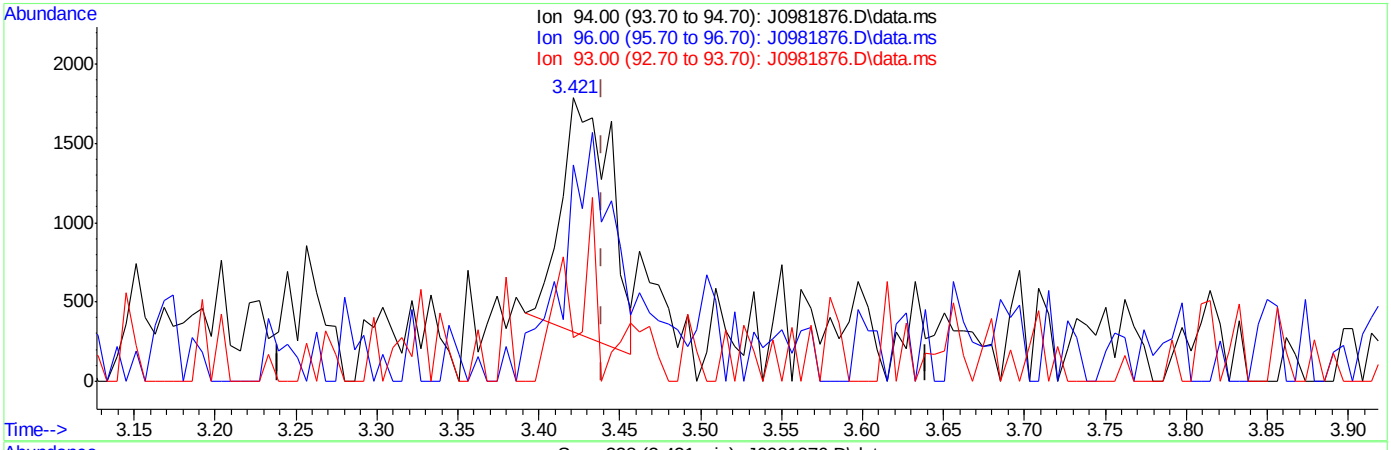

(6) Bromomethane ( )

3.421min (-0.018) 0.42ug/L

response 3157

Ion	Exp%	Act%
94.00	100	100
96.00	82.50	77.87
93.00	25.00	20.44
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

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Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
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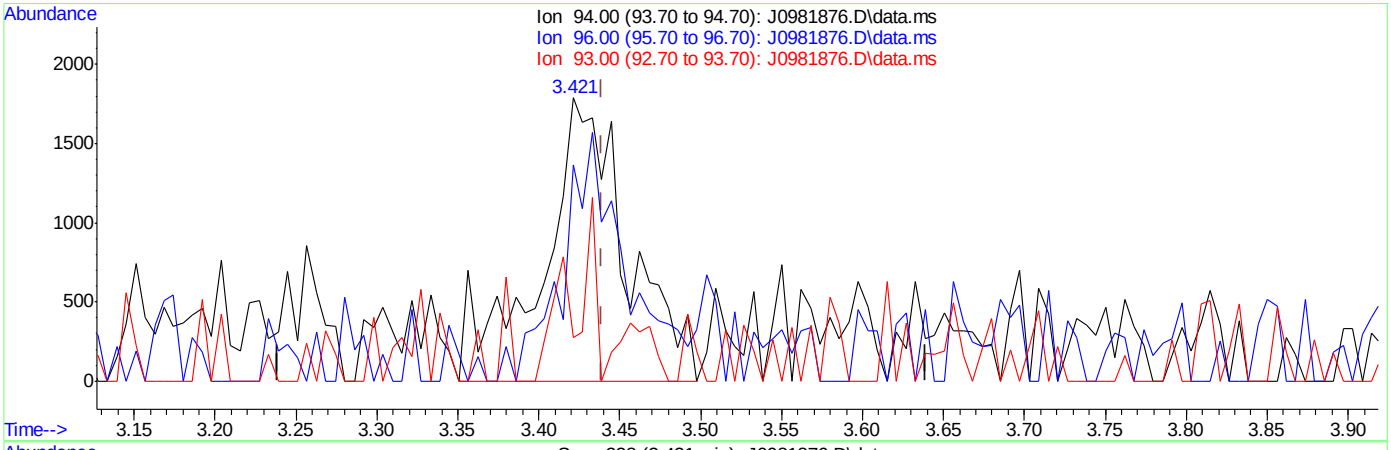

(6) Bromomethane ( )

3.421min (-0.018) 0.87ug/L m

response 6497

Ion	Exp%	Act%
94.00	100	100
96.00	82.50	76.19
93.00	25.00	15.54
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

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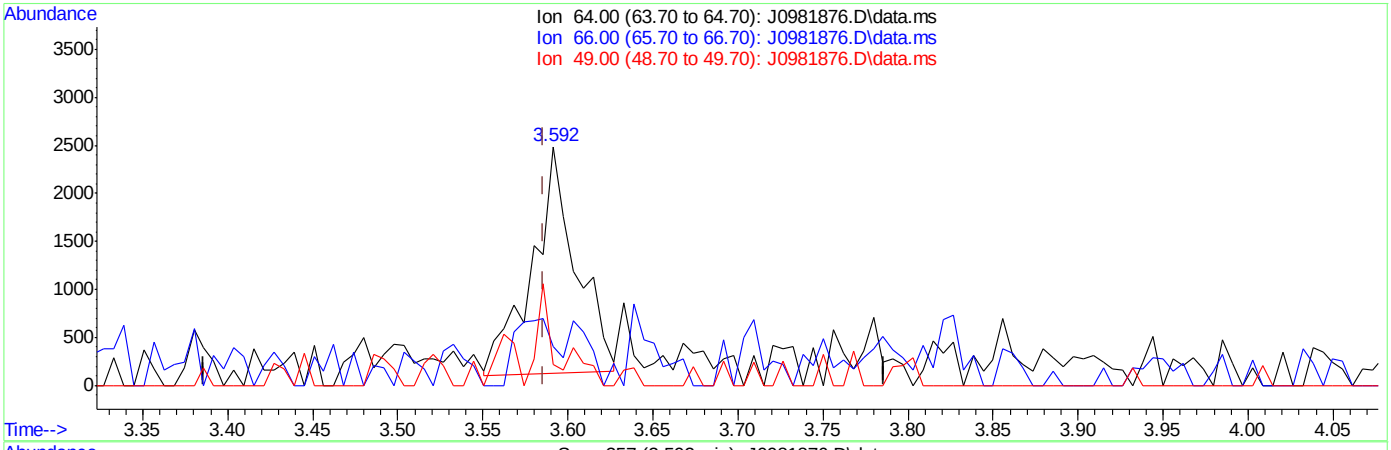

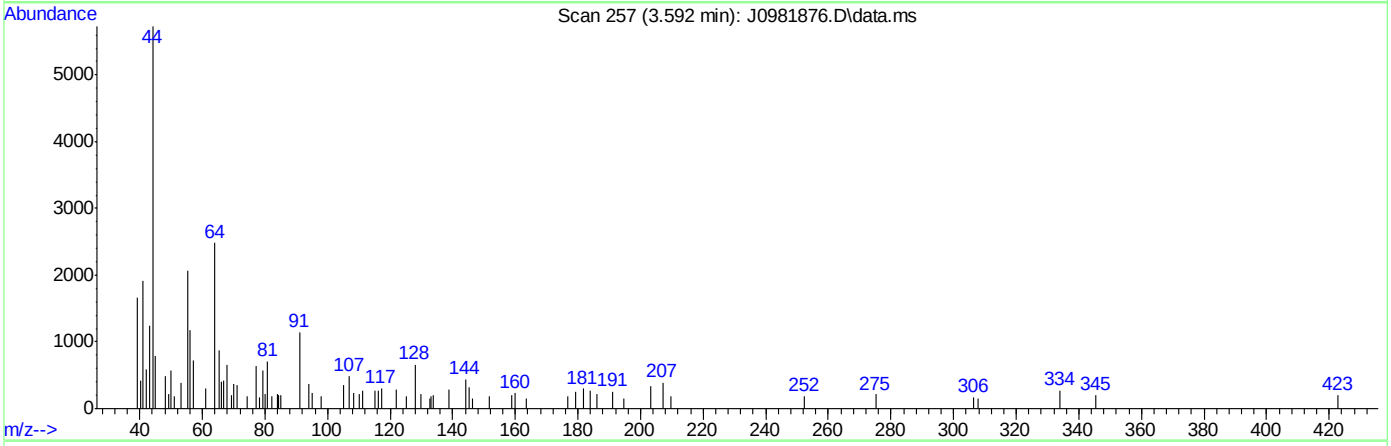

TIC: J0981876.D\data.ms

(7) Chloroethane ( )

3.592min (+0.006) 0.72ug/L

response 4244

Ion	Exp%	Act%
64.00	100	100
66.00	25.90	17.46
49.00	30.40	9.52
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
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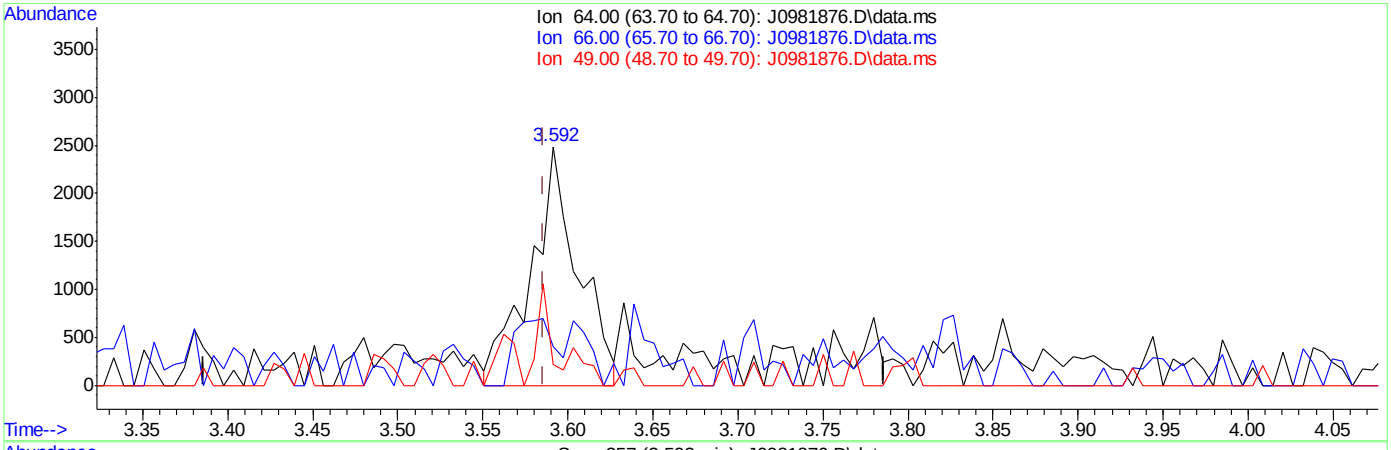

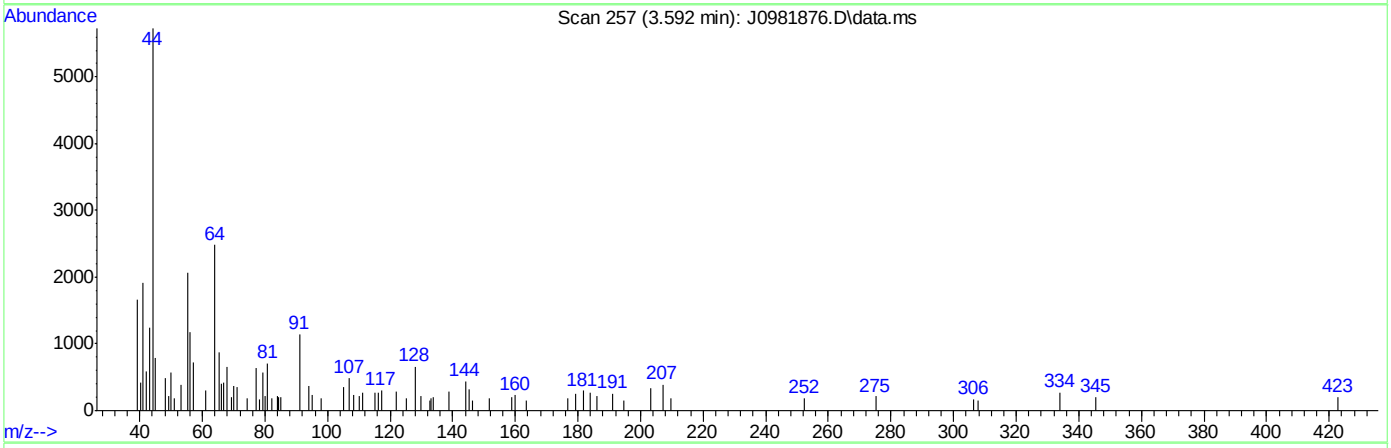

TIC: J0981876.D\data.ms

(7) Chloroethane ( )

3.592min (+0.006) 0.82ug/L m

response 4824

Ion	Exp%	Act%
64.00	100	100
66.00	25.90	16.38
49.00	30.40	8.93
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

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Data File : J0981876.D
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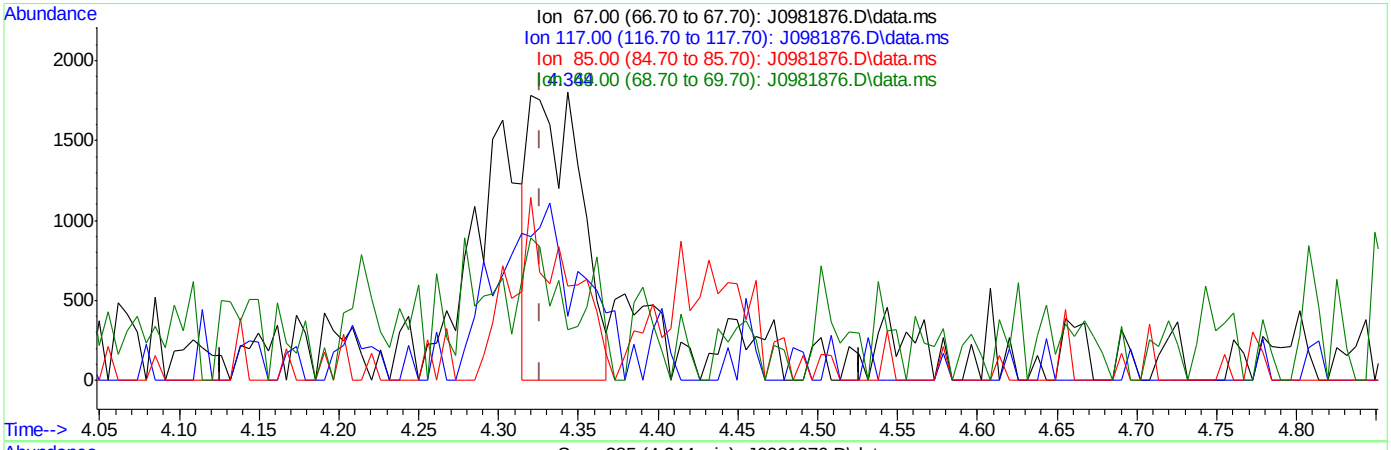

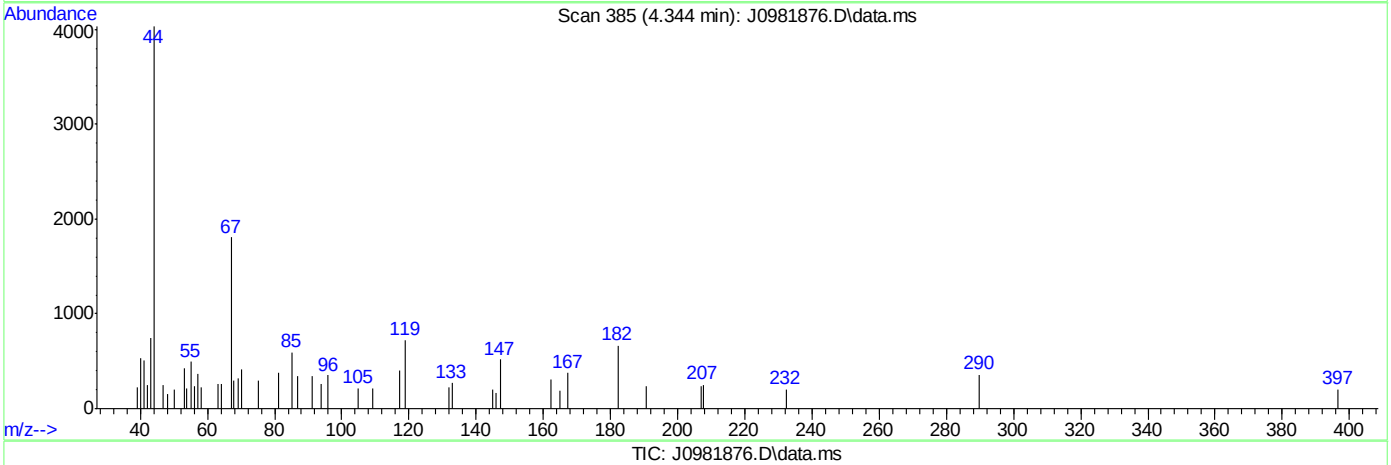

TIC: J0981876.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.344min (+0.018) 0.41ug/L

response 3989

Ion	Exp%	Act%
67.00	100	100
117.00	60.40	0.00#
85.00	33.50	27.92
69.00	30.20	0.00#

SGS ACCUTEST FA39907

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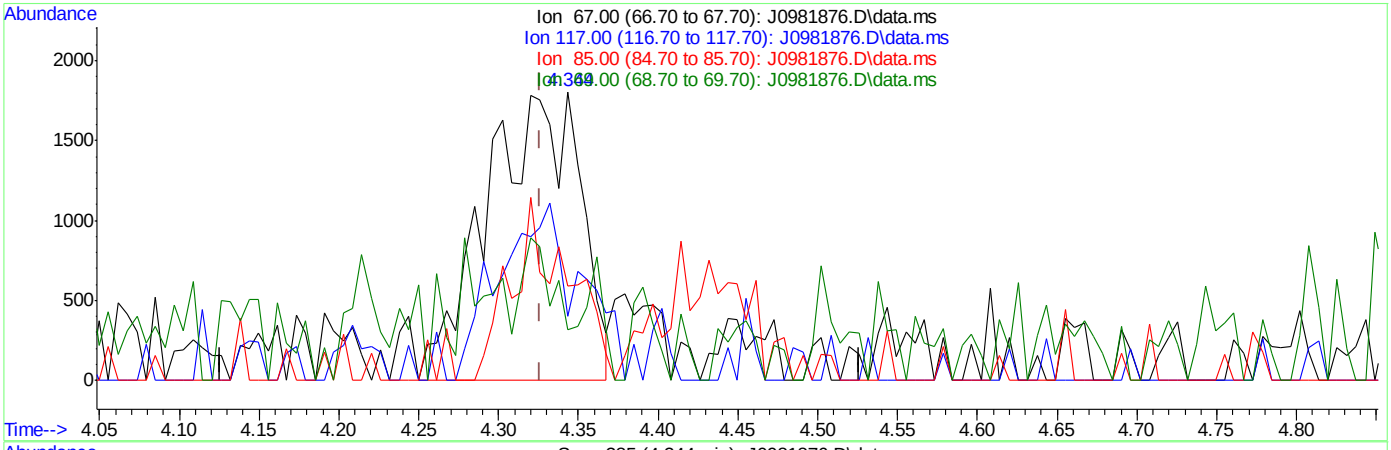

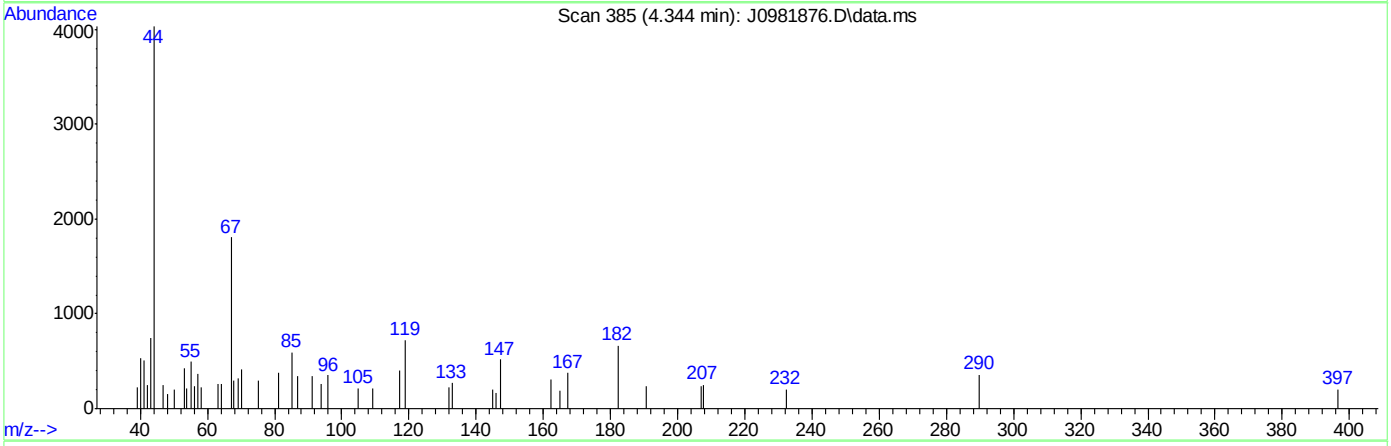

(10) 1,2-Dichlorotrifluoroethane

4.344min (+0.018) 0.74ug/L m

response 7306

Ion	Exp%	Act%
67.00	100	100
117.00	60.40	22.25#
85.00	33.50	32.76
69.00	30.20	17.54

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

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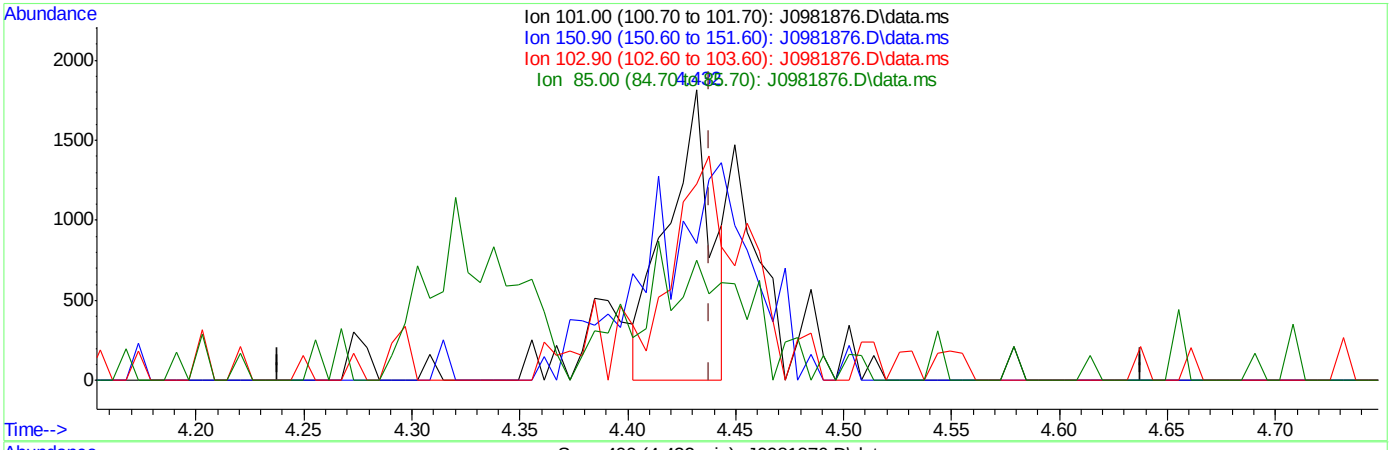
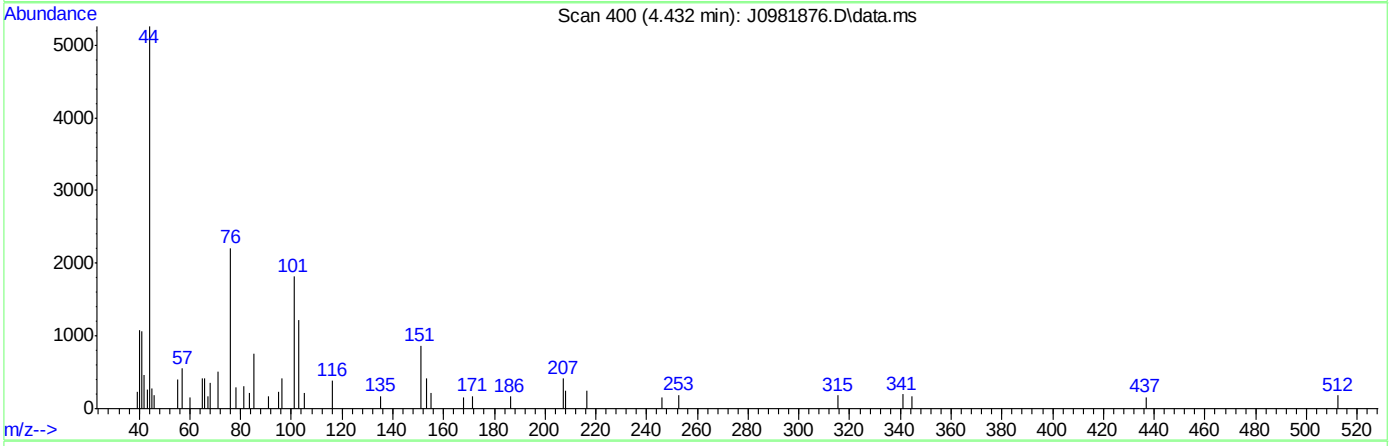




TIC: J0981876.D\data.ms

(12) Freon 113

4.432min (-0.006) 0.29ug/L

response 2580

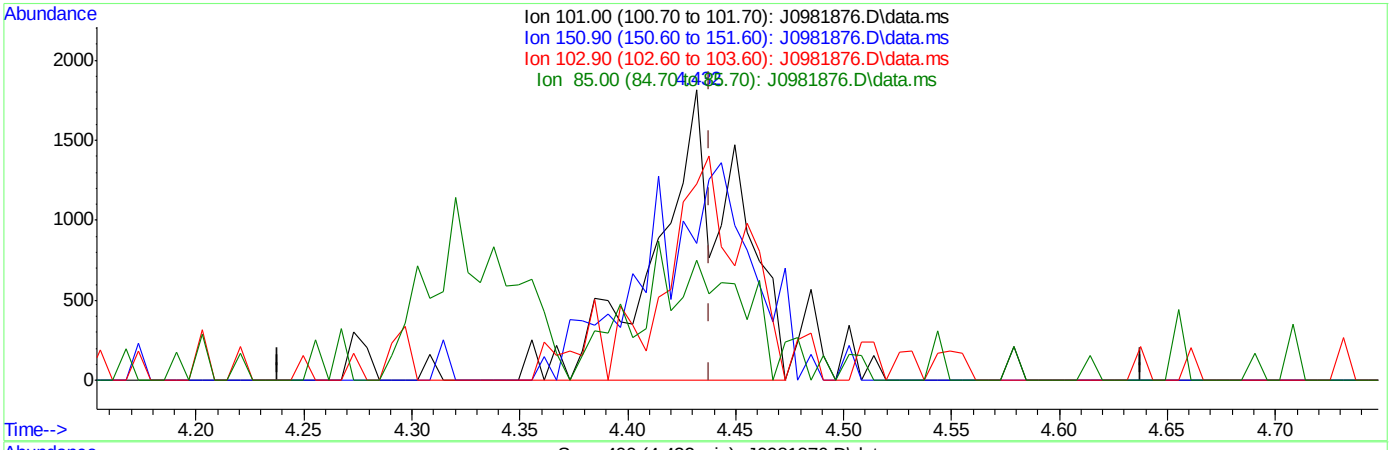
Ion	Exp%	Act%
101.00	100	100
150.90	77.10	12.79#
102.90	60.70	60.12
85.00	41.90	32.90

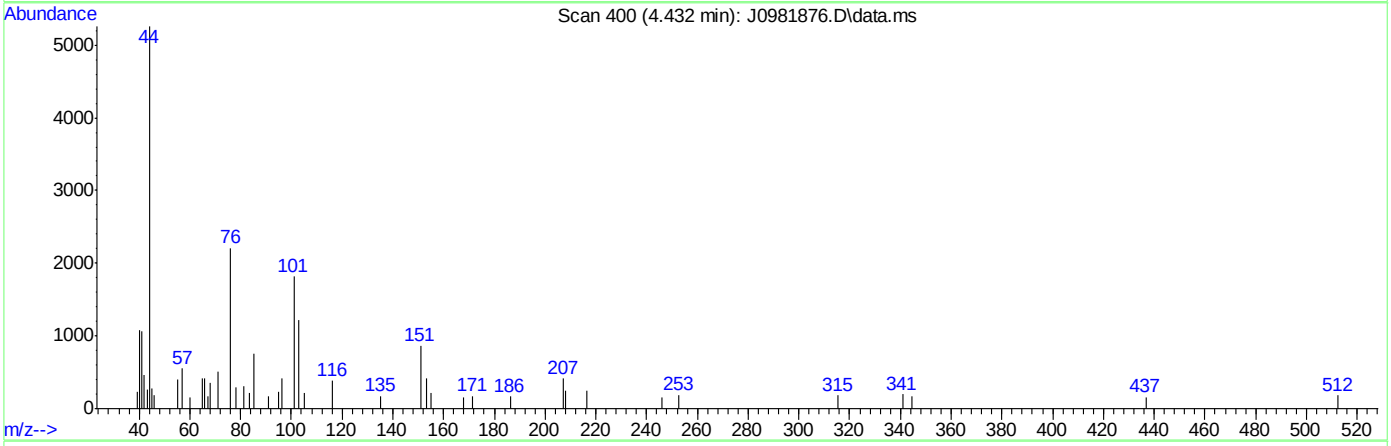
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(12) Freon 113

4.432min (-0.006) 0.53ug/L m

response 4756

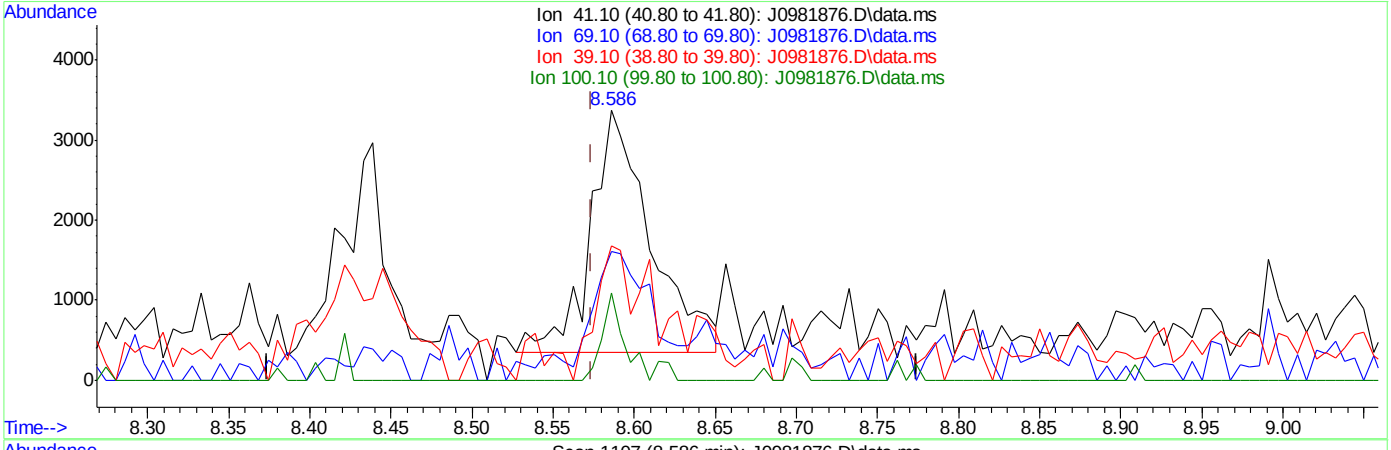
Ion	Exp%	Act%
101.00	100	100
150.90	77.10	47.27#
102.90	60.70	67.51
85.00	41.90	41.37

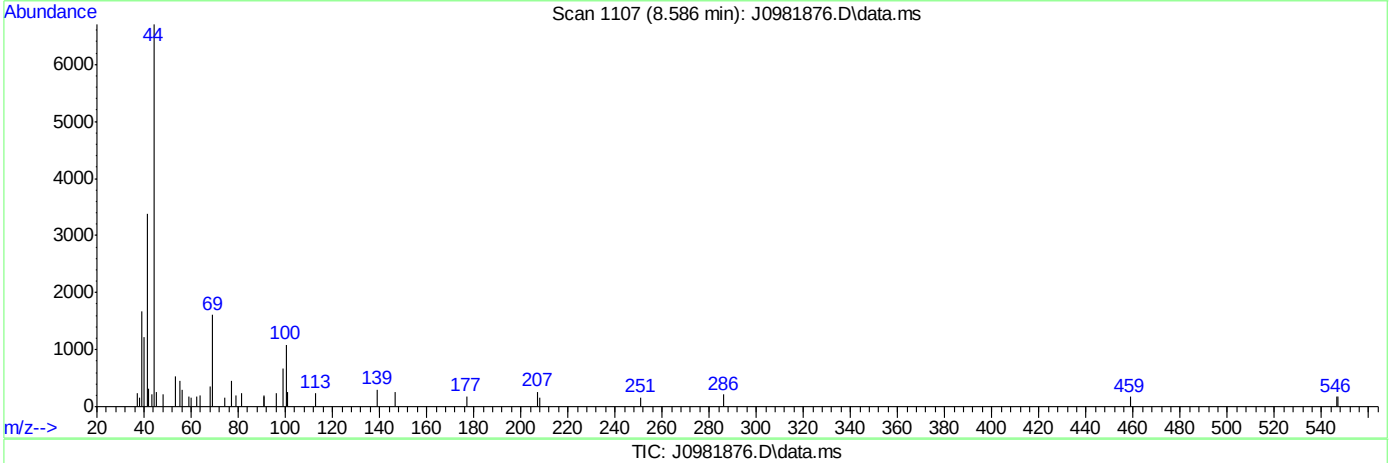
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(53) Methyl methacrylate

8.586min (+0.012) 1.15ug/L

response 7840

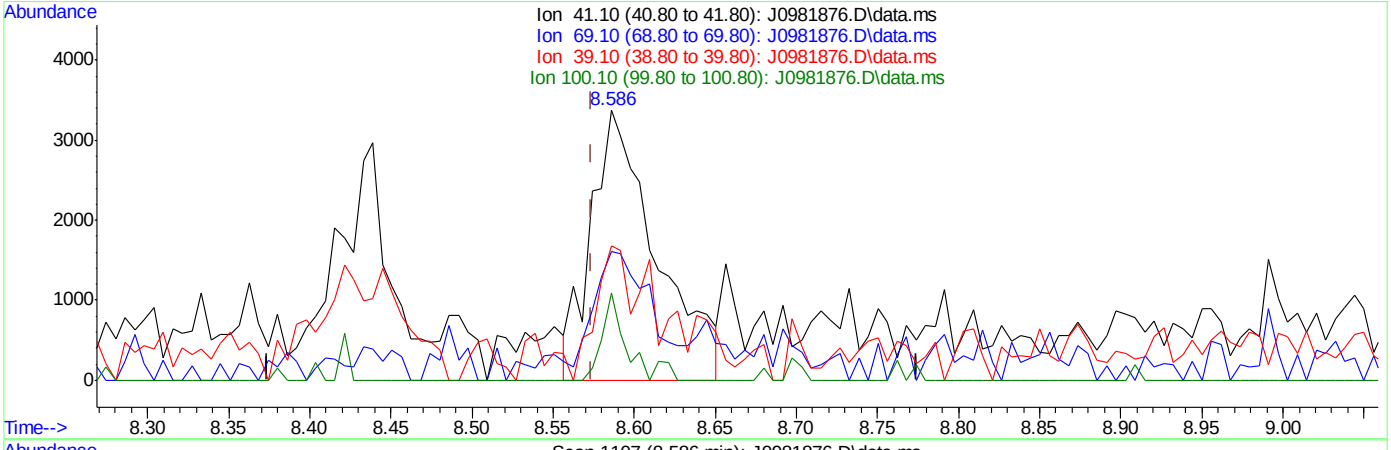
Ion	Exp%	Act%
41.10	100	100
69.10	57.20	45.29
39.10	51.30	55.51
100.10	22.30	36.09

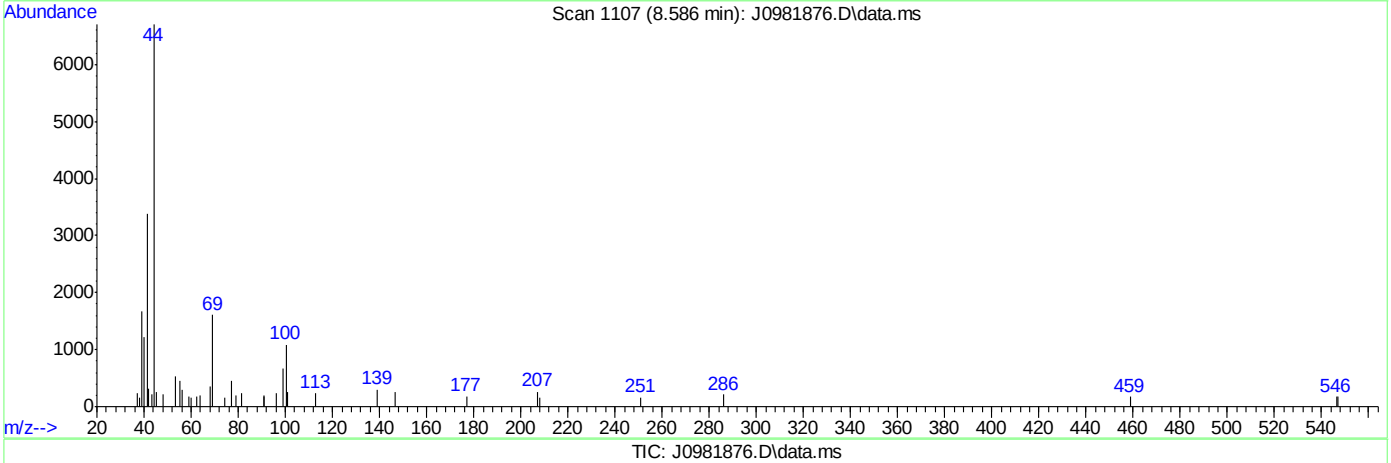
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(53) Methyl methacrylate

8.586min (+0.012) 1.39ug/L m

response 9454

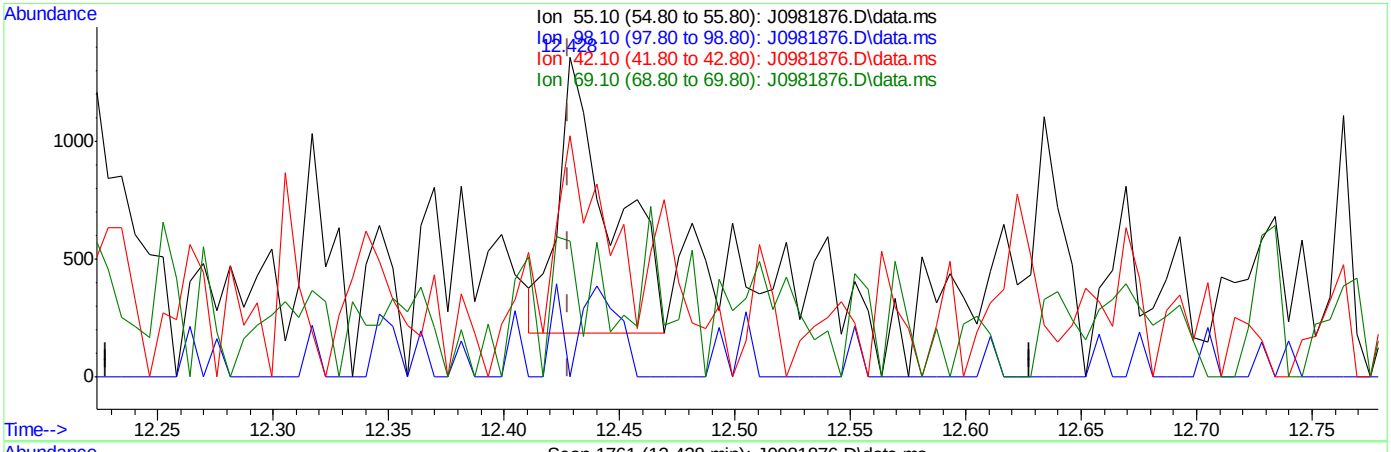
Ion	Exp%	Act%
41.10	100	100
69.10	57.20	47.59
39.10	51.30	49.69
100.10	22.30	32.31

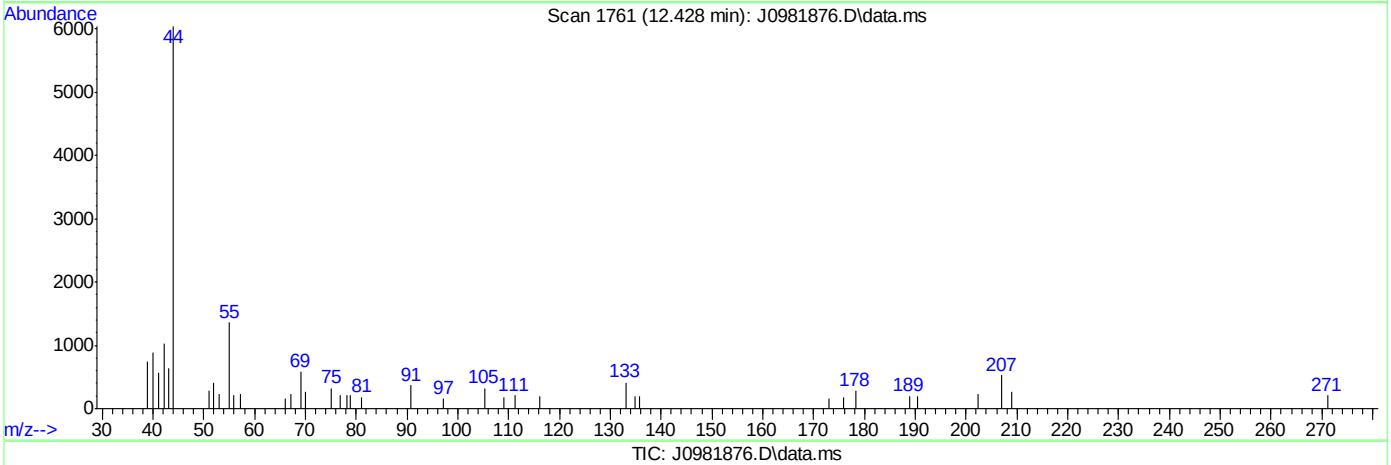
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(88) Cyclohexanone

12.428min (+0.000) 6.17ug/L

response 1855

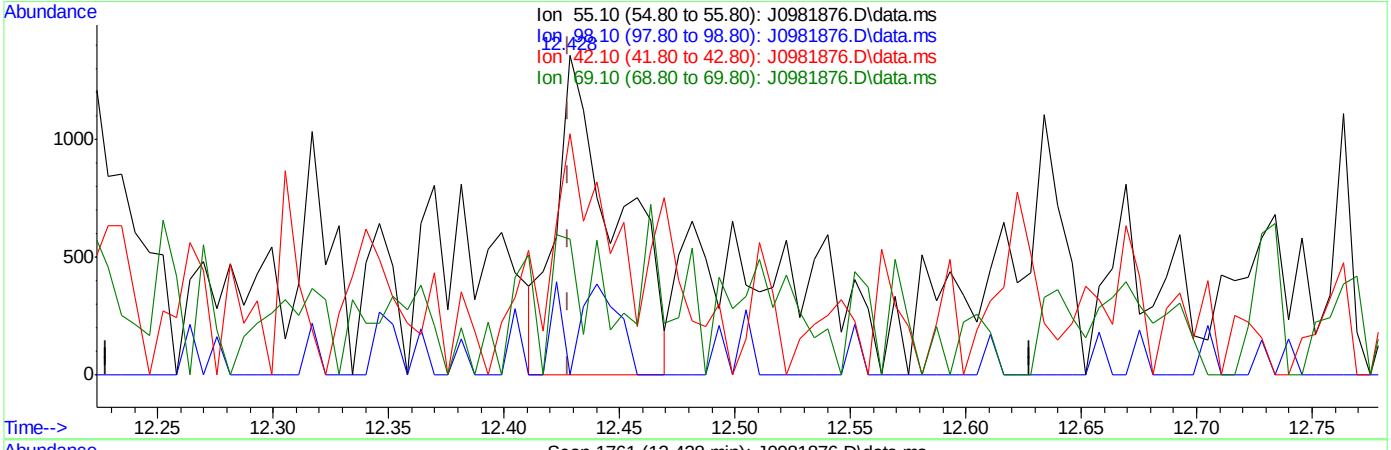
Ion	Exp%	Act%
55.10	100	100
98.10	33.60	0.00#
42.10	70.70	42.05#
69.10	22.10	30.43

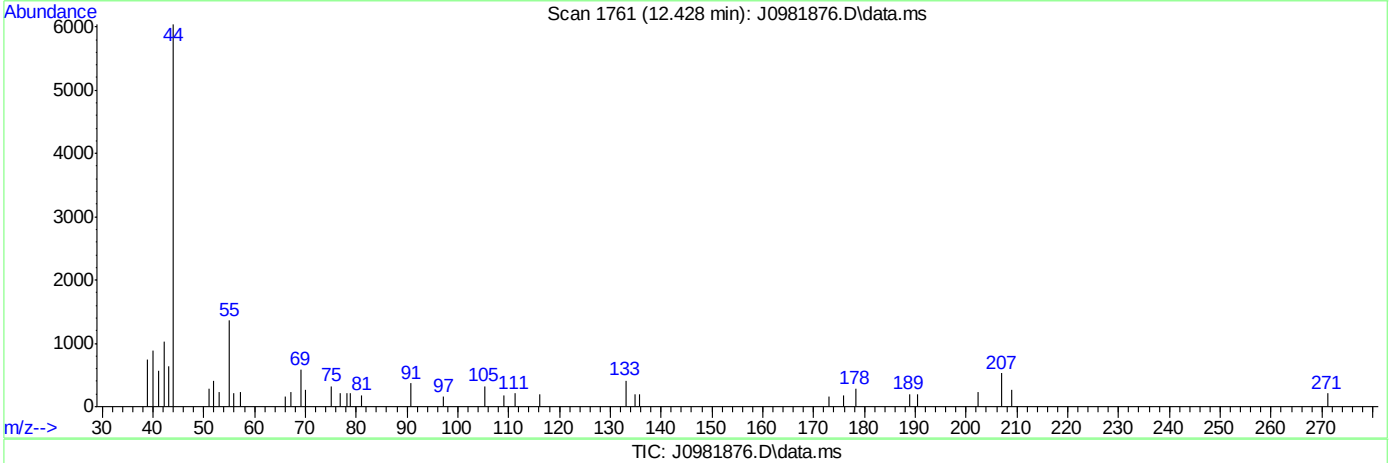
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(88) Cyclohexanone

12.428min (+0.000) 8.38ug/L m

response 2518

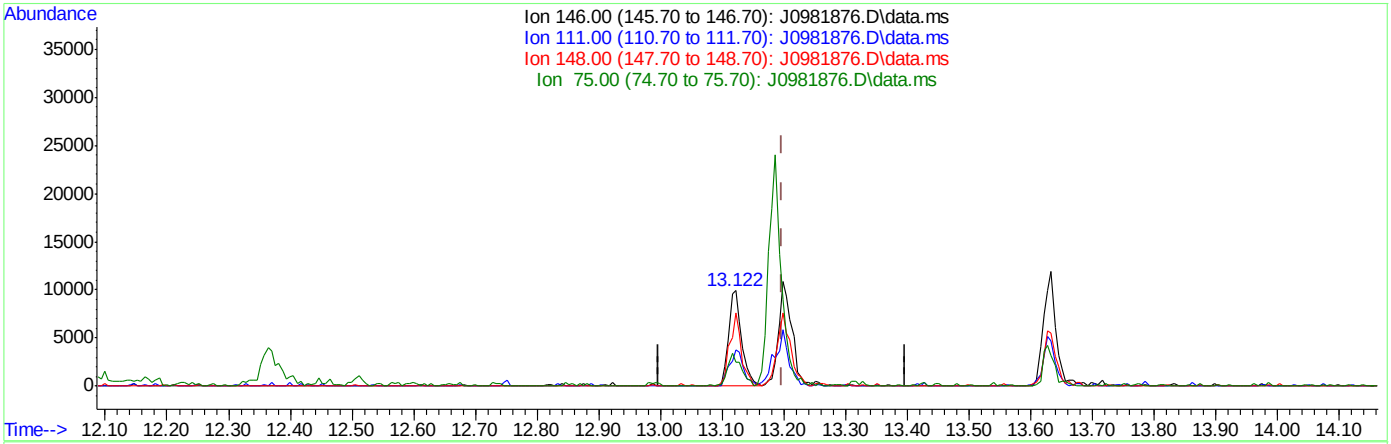
Ion	Exp%	Act%
55.10	100	100
98.10	33.60	0.00#
42.10	70.70	75.41
69.10	22.10	42.64#

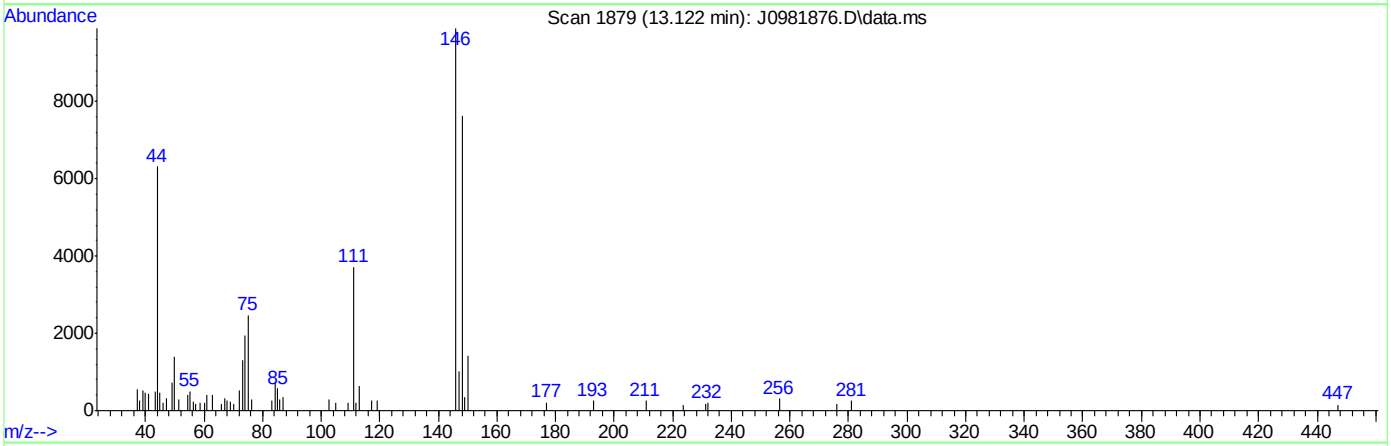
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(97) 1,4-Dichlorobenzene

13.122min (-0.076) 0.87ug/L

response 14356

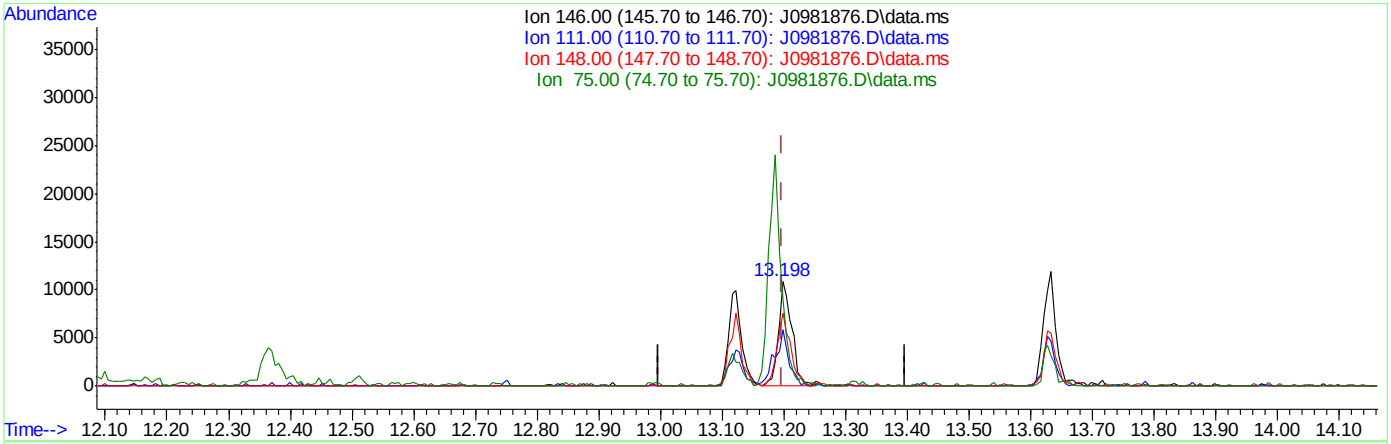
Ion	Exp%	Act%
146.00	100	100
111.00	40.80	37.68
148.00	60.00	77.02
75.00	36.30	24.96

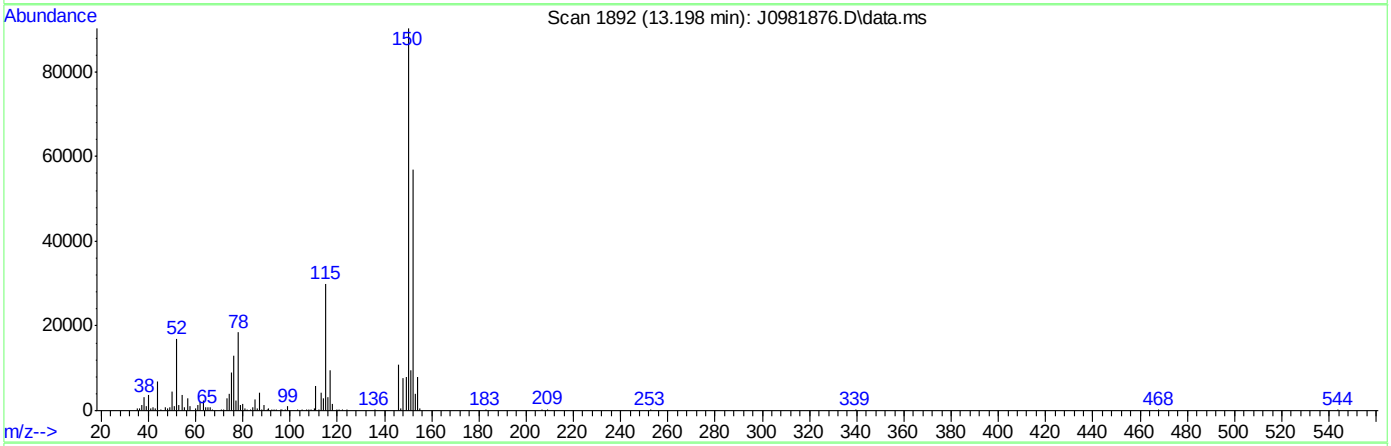
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(97) 1,4-Dichlorobenzene

13.198min (+0.000) 1.00ug/L m

response 16533

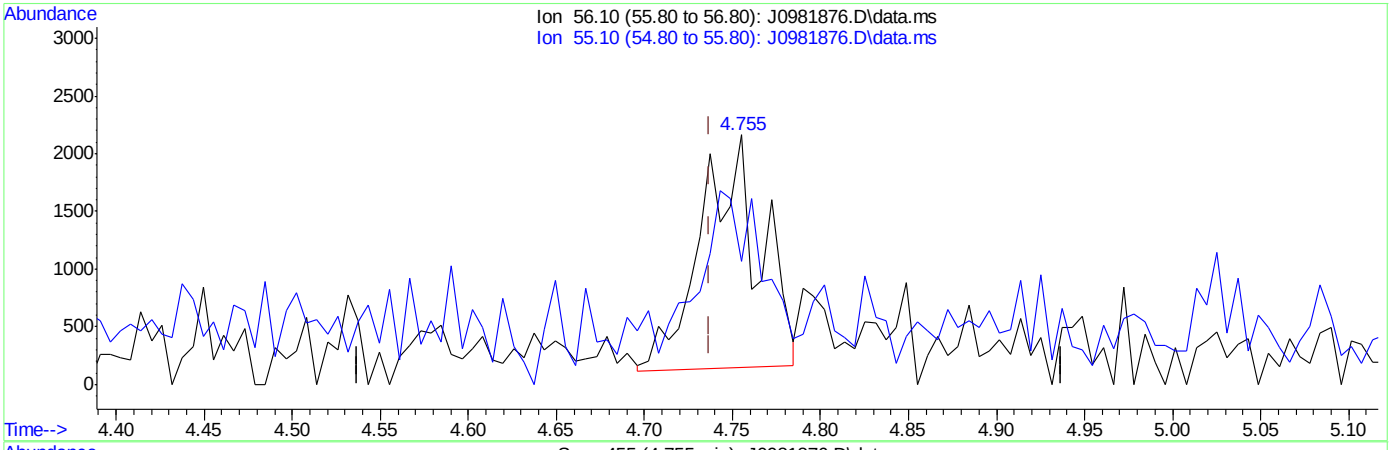
Ion	Exp%	Act%
146.00	100	100
111.00	40.80	53.43
148.00	60.00	70.16
75.00	36.30	82.95#

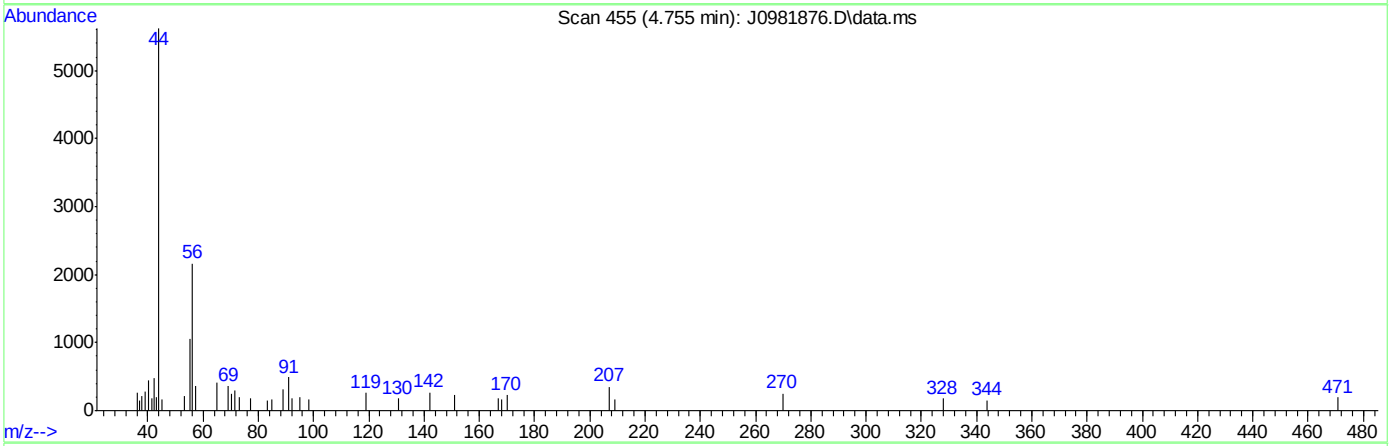
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(108) acrolein

4.755min (+0.018) 2.63ug/L

response 4648

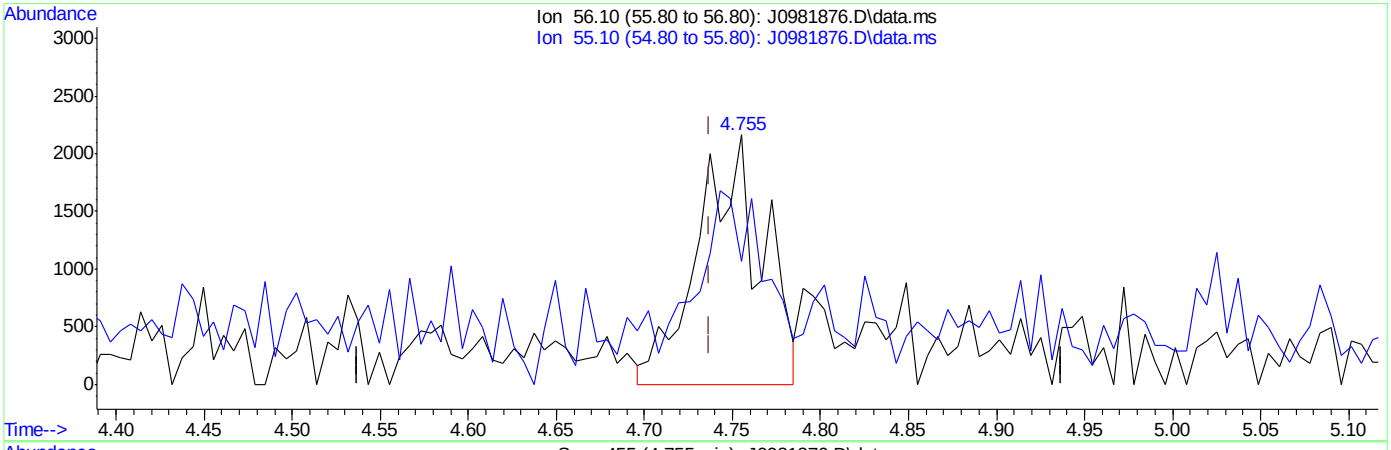
Ion	Exp%	Act%
56.10	100	100
55.10	72.60	33.18#
0.00	0.00	0.00
0.00	0.00	0.00

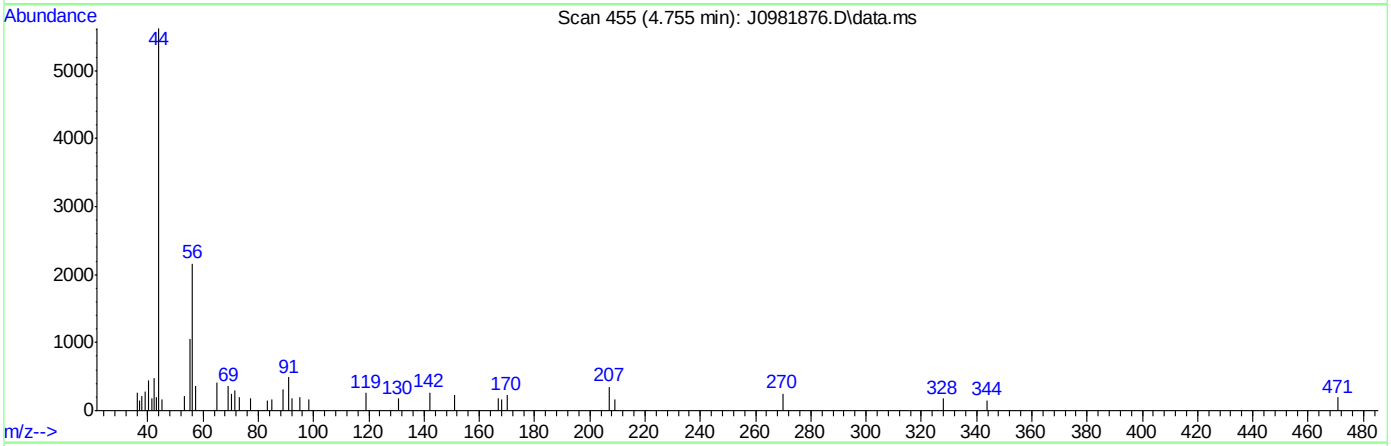
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(108) acrolein

4.755min (+0.018) 3.05ug/L m

response 5399

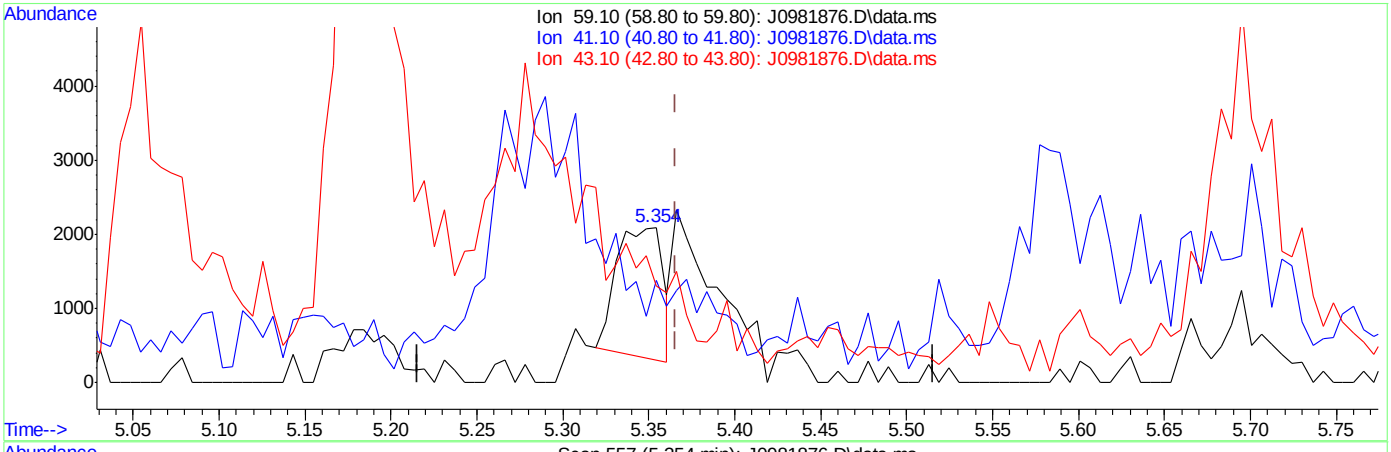
Ion	Exp%	Act%
56.10	100	100
55.10	72.60	49.14#
0.00	0.00	0.00
0.00	0.00	0.00

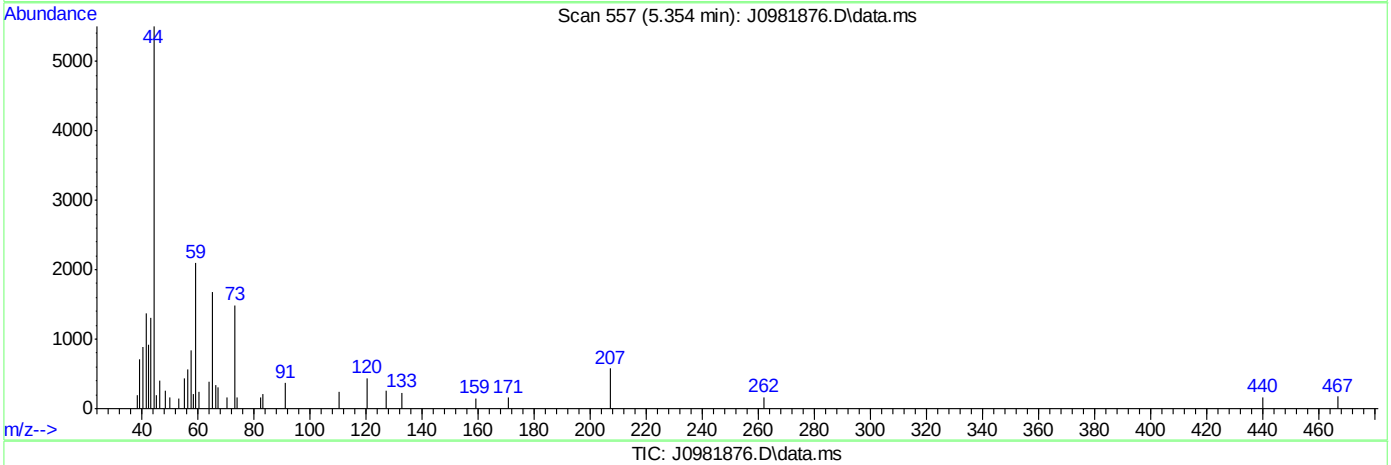
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(109) Tert Butyl Alcohol

5.354min (-0.012) 3.59ug/L

response 3245

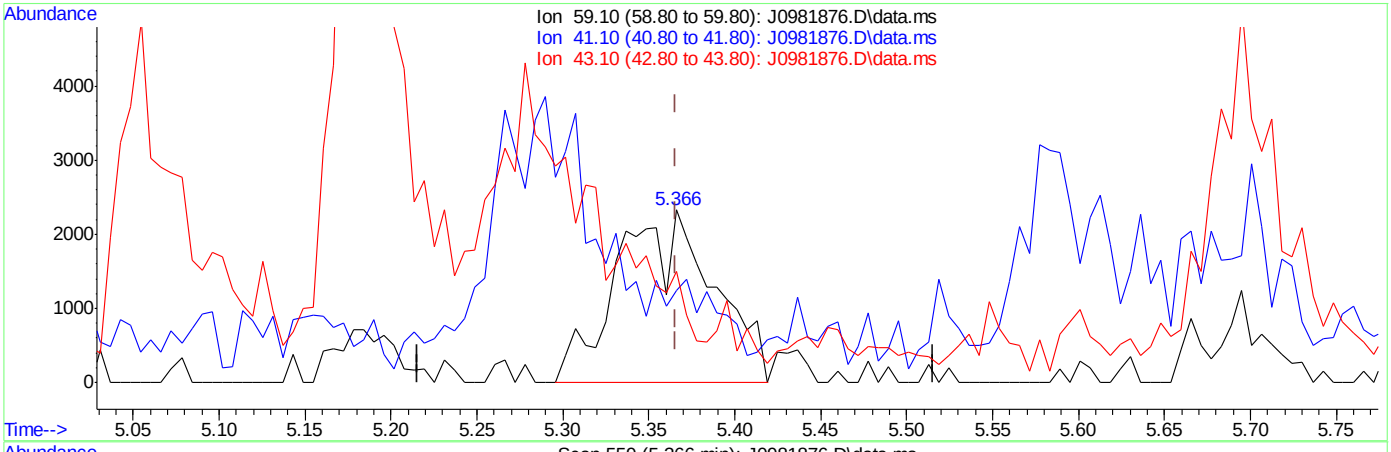
Ion	Exp%	Act%
59.10	100	100
41.10	35.00	21.78
43.10	26.80	6.40#
0.00	0.00	0.00

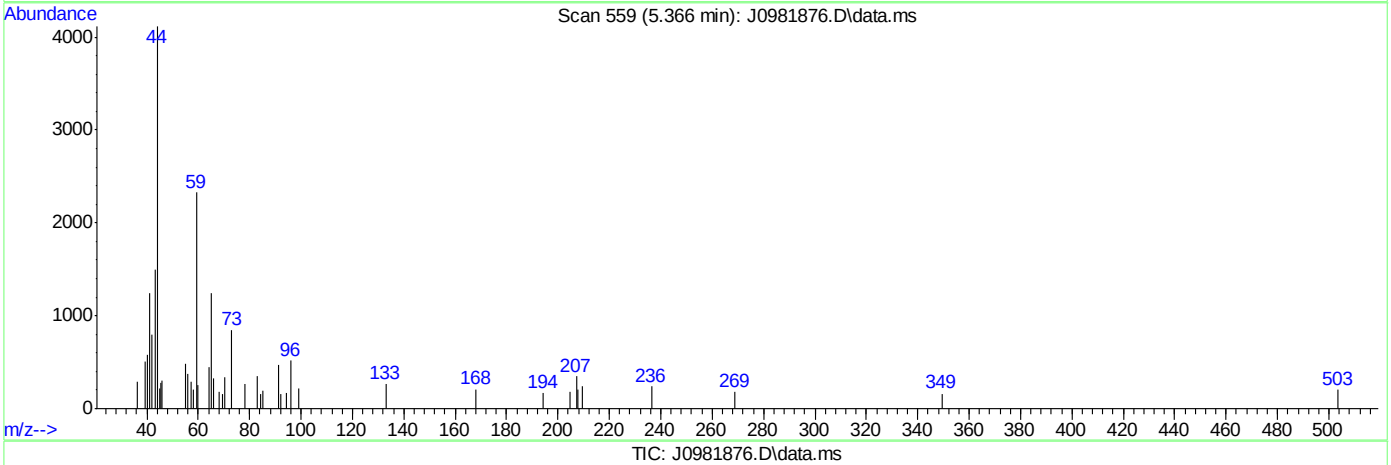
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(109) Tert Butyl Alcohol

5.366min (0.000) 10.12ug/L m

response 9150

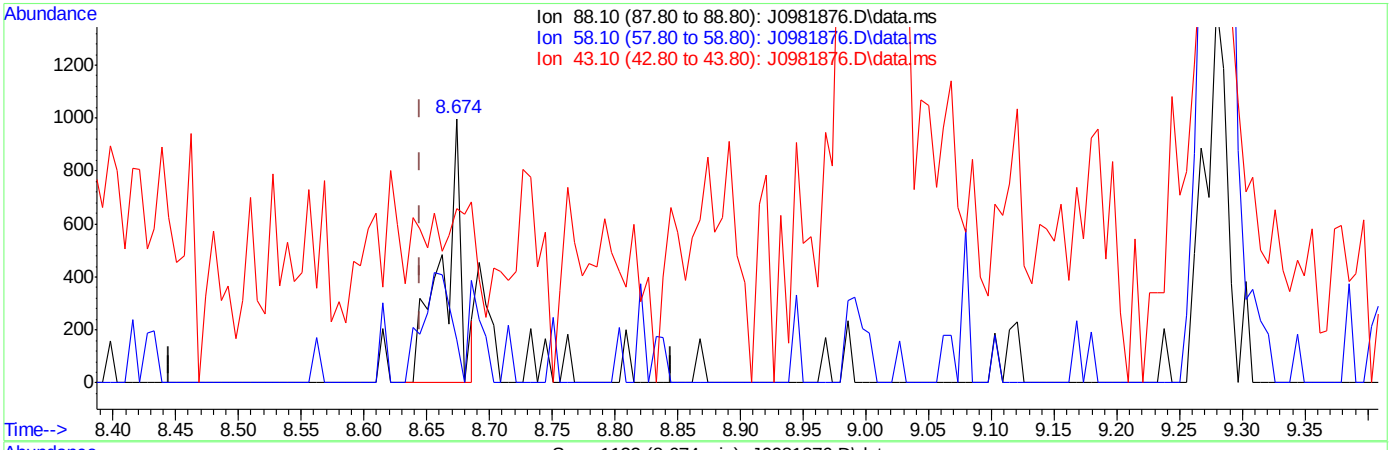
Ion	Exp%	Act%
59.10	100	100
41.10	35.00	53.68
43.10	26.80	64.60#
0.00	0.00	0.00

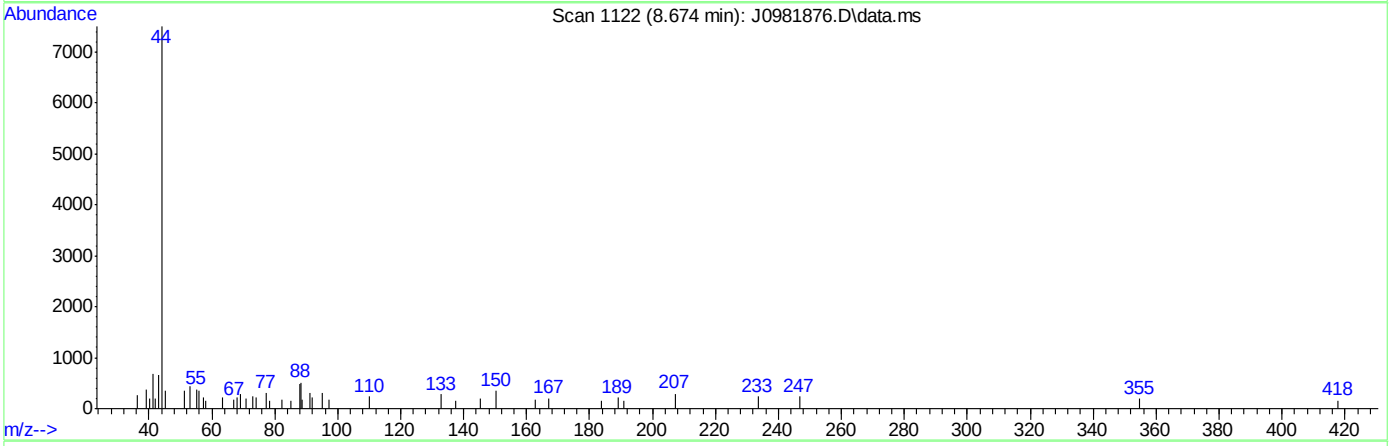
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(112) 1,4-Dioxane

8.674min (+0.029) 12.36ug/L

response 1035

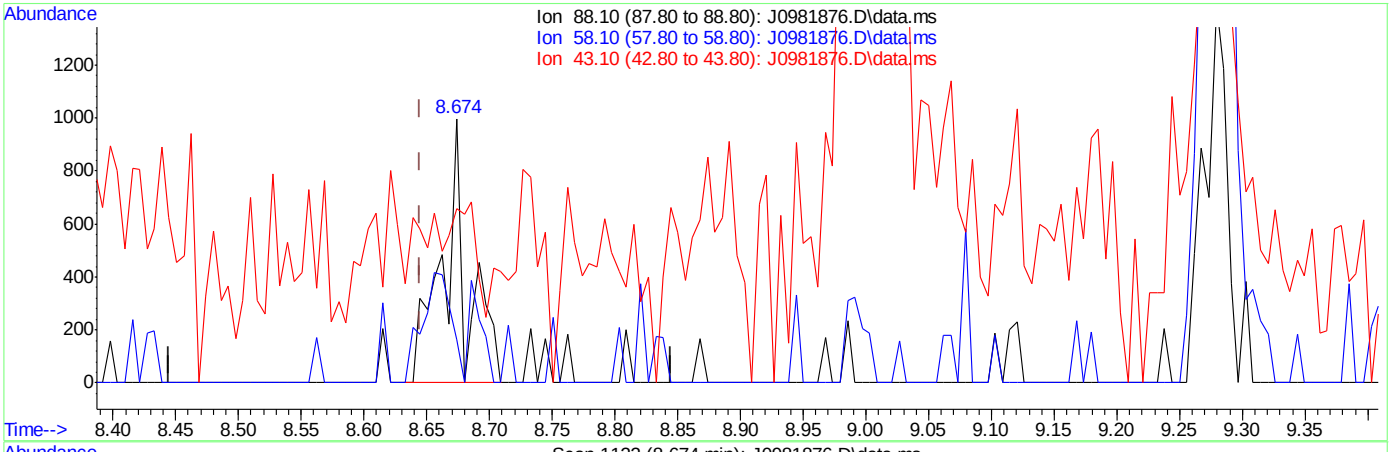
Ion	Exp%	Act%
88.10	100	100
58.10	74.80	13.78#
43.10	35.10	24.57
0.00	0.00	0.00

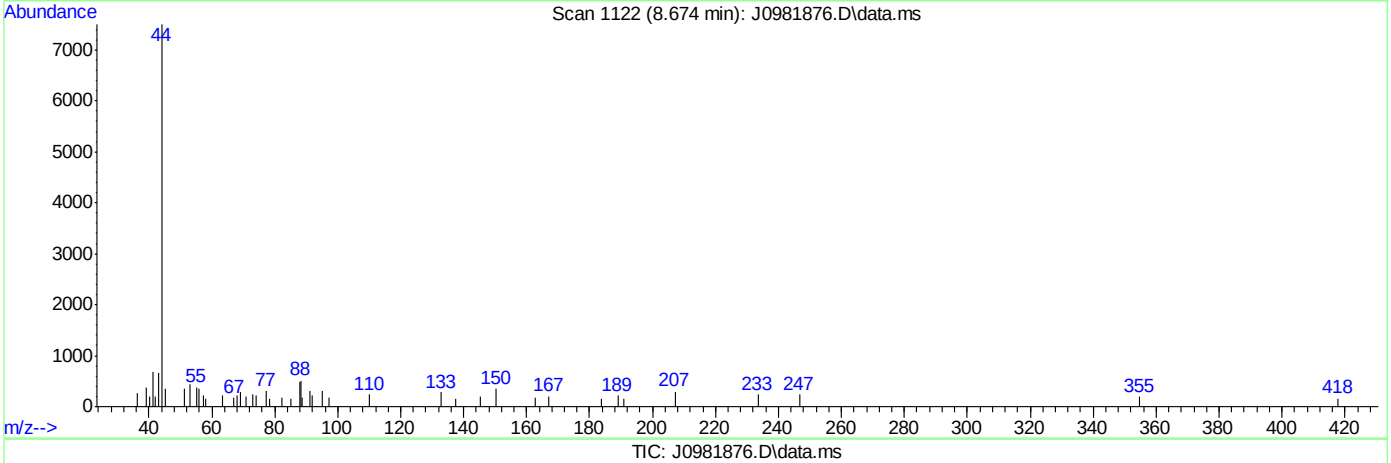
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:43:47 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(112) 1,4-Dioxane

8.674min (+0.029) 16.43ug/L m

response 1375

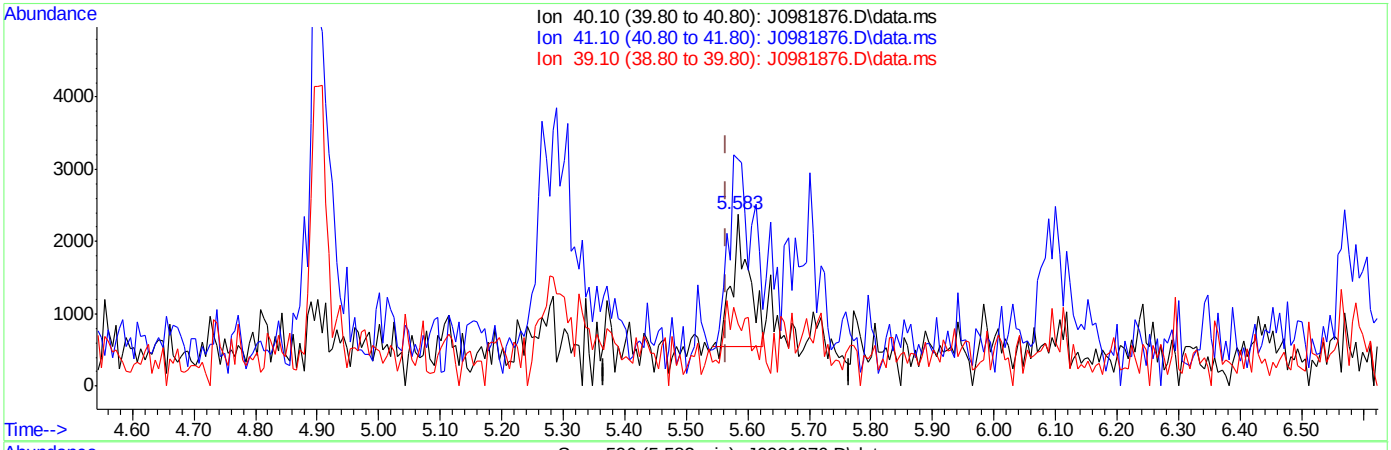
Ion	Exp%	Act%
88.10	100	100
58.10	74.80	31.45#
43.10	35.10	128.91#
0.00	0.00	0.00

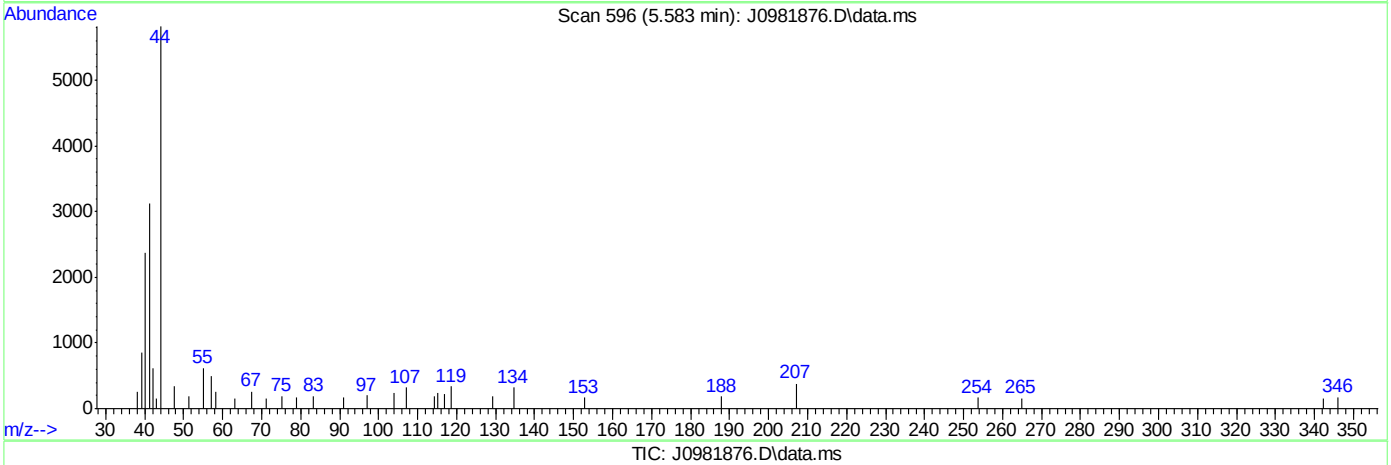
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(22) Acetonitrile

5.583min (+0.017) 5.80ug/L

response 3477

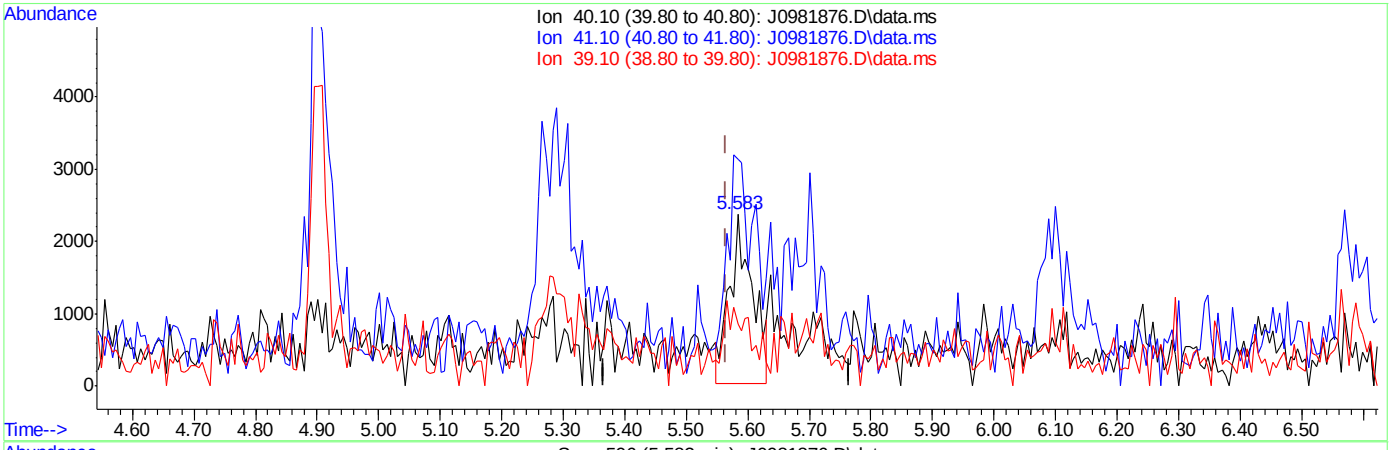
Ion	Exp%	Act%
40.10	100	100
41.10	210.50	143.57#
39.10	32.10	28.52
0.00	0.00	0.00

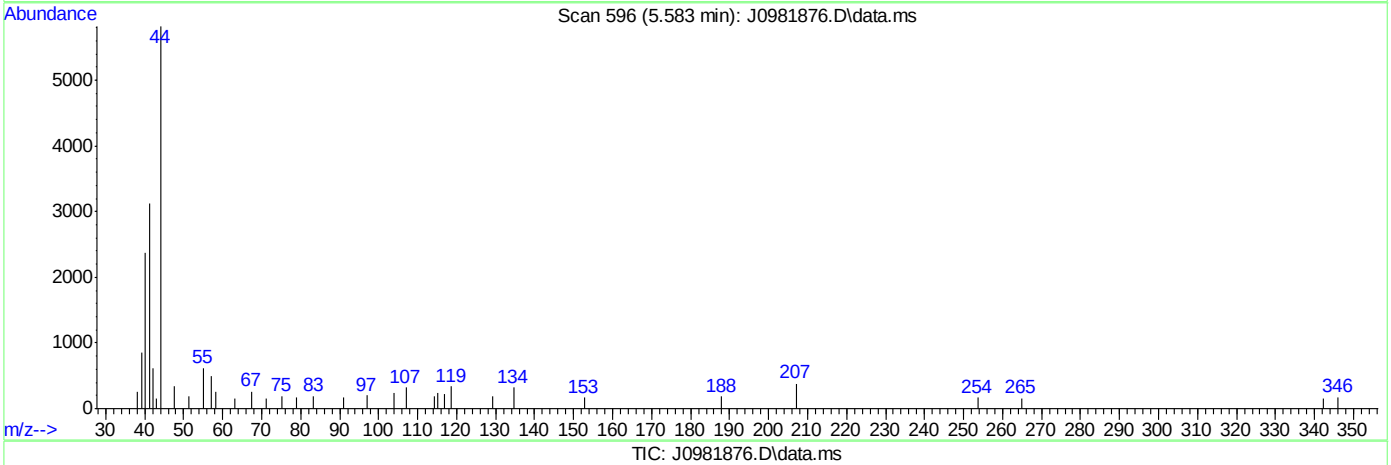
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981876.D\data.ms

(22) Acetonitrile

5.583min (+0.017) 10.17ug/L m

response 6093

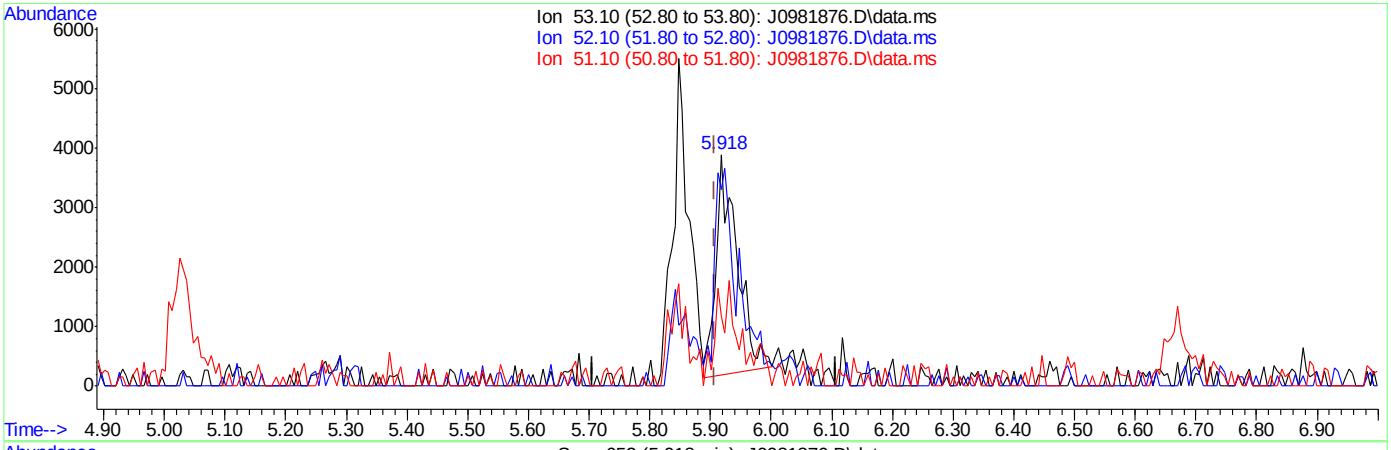
Ion	Exp%	Act%
40.10	100	100
41.10	210.50	131.50#
39.10	32.10	35.87
0.00	0.00	0.00

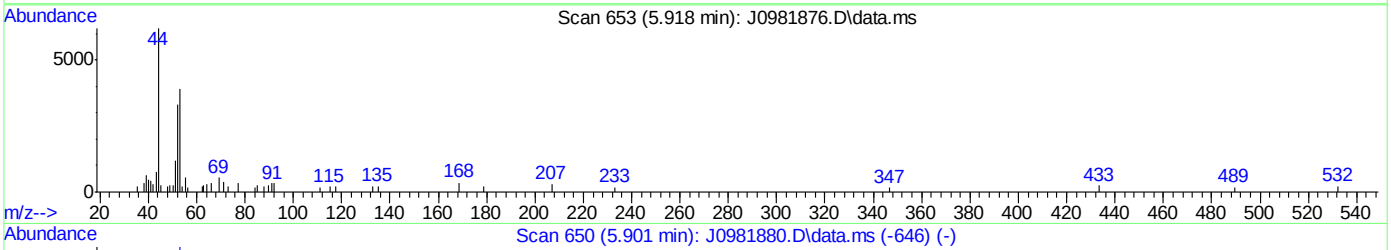
SGS ACCUTEST FA39907

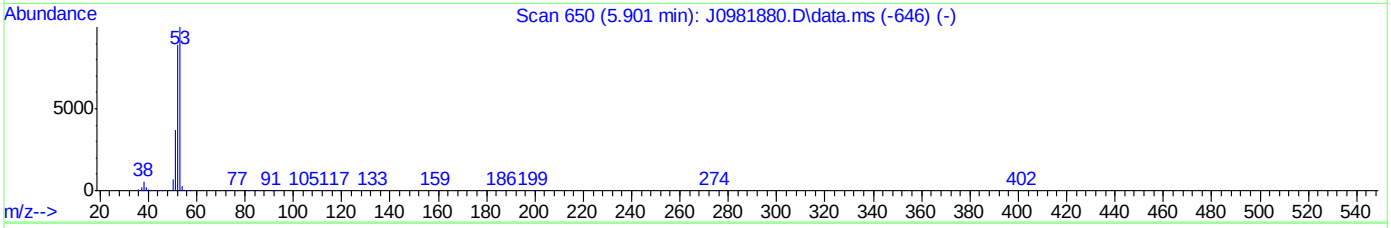
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(26) Acrylonitrile

5.918min (+0.011) 2.74ug/L

response 9015

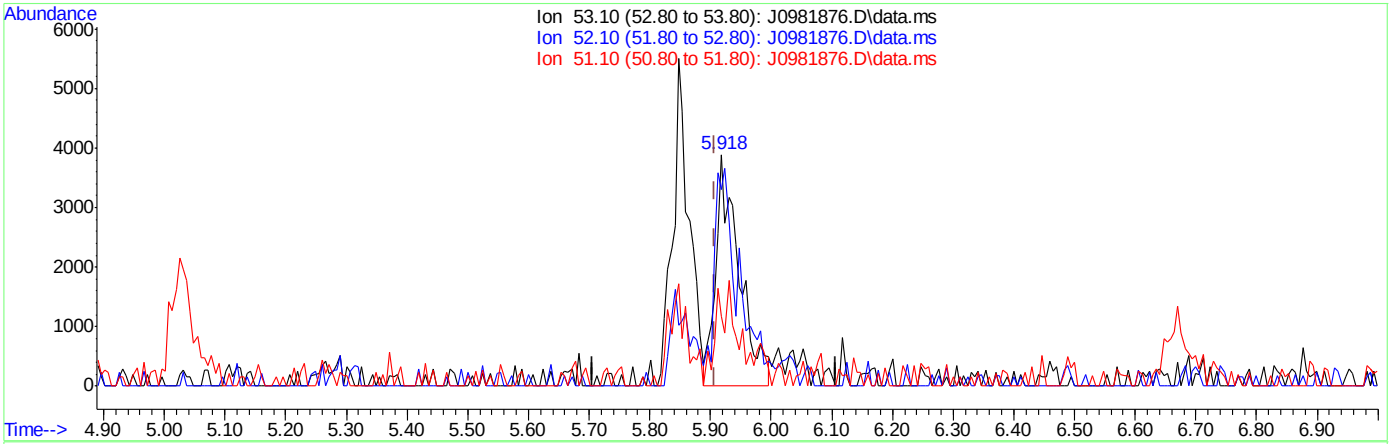
Ion	Exp%	Act%
53.10	100	100
52.10	76.10	82.98
51.10	37.50	33.09
0.00	0.00	0.00

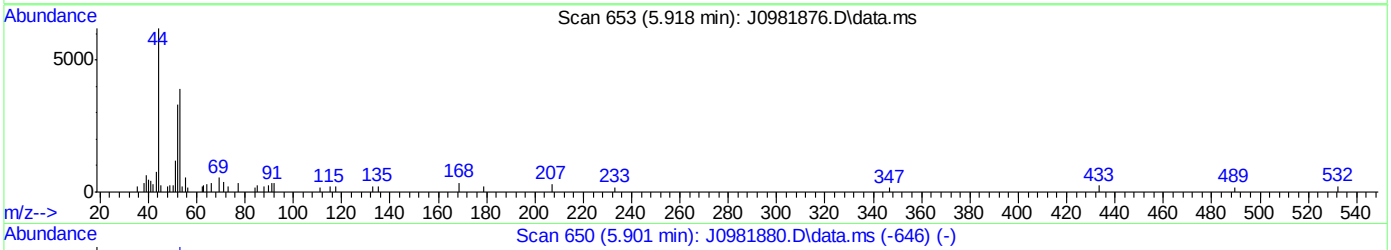
SGS ACCUTEST FA39907

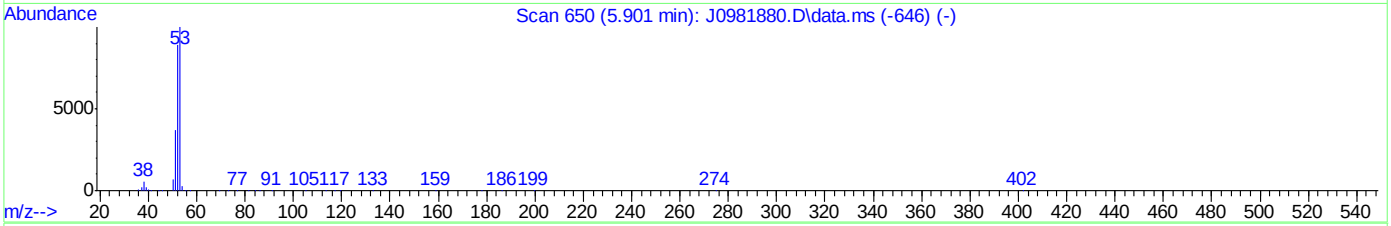
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(26) Acrylonitrile

5.918min (+0.011) 3.16ug/L m

response 10405

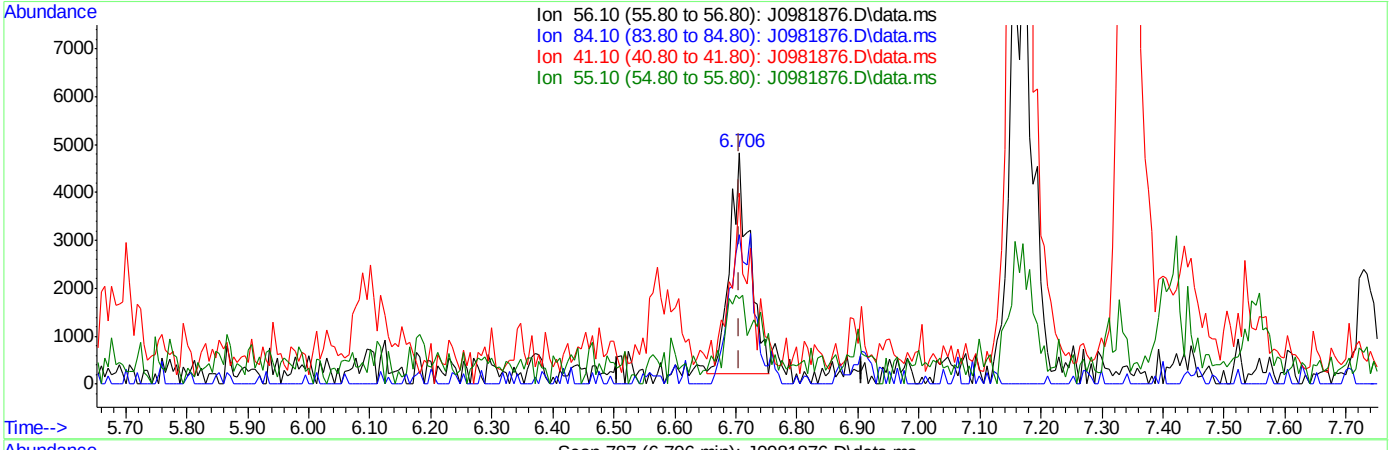
Ion	Exp%	Act%
53.10	100	100
52.10	76.10	84.86
51.10	37.50	30.38
0.00	0.00	0.00

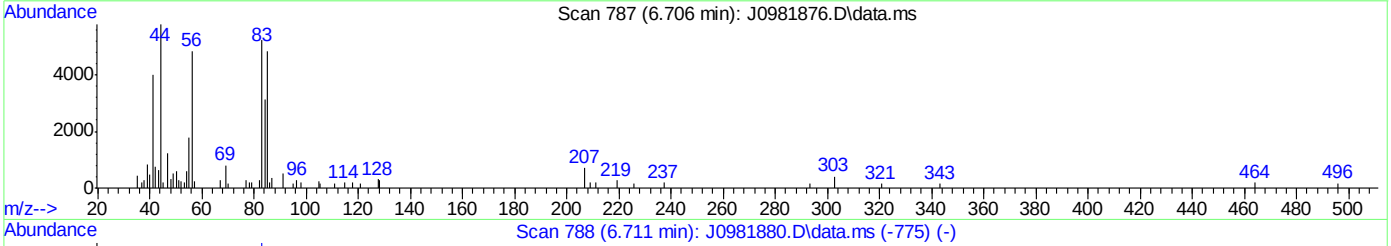
SGS ACCUTEST FA39907

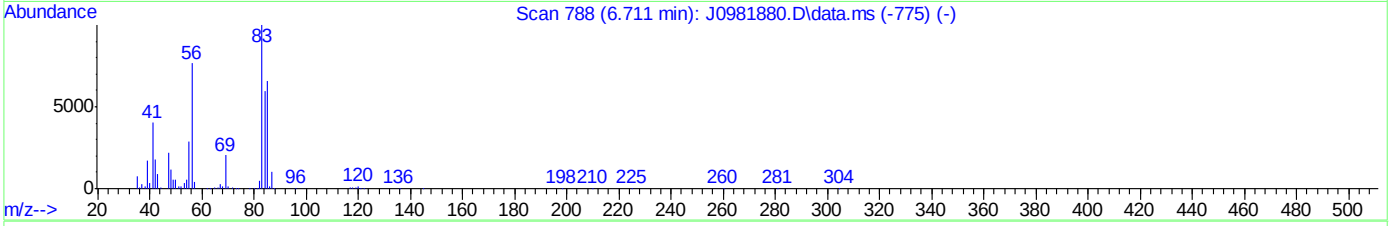
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(32) Cyclohexane

6.706min (-0.000) 0.63ug/L

response 10425

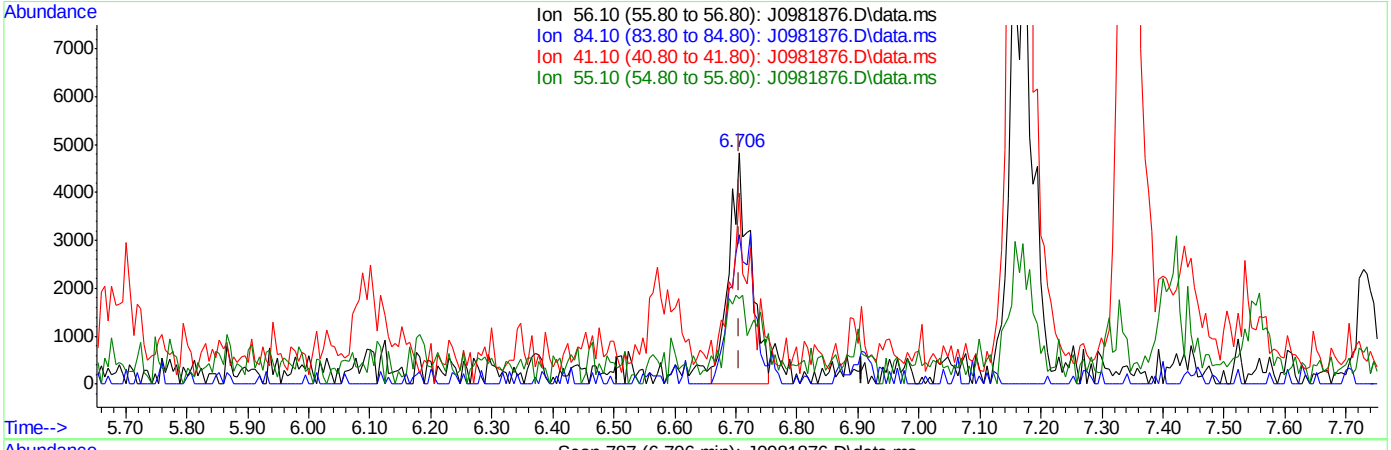
Ion	Exp%	Act%
56.10	100	100
84.10	80.30	67.49
41.10	61.60	75.45
55.10	38.90	32.40

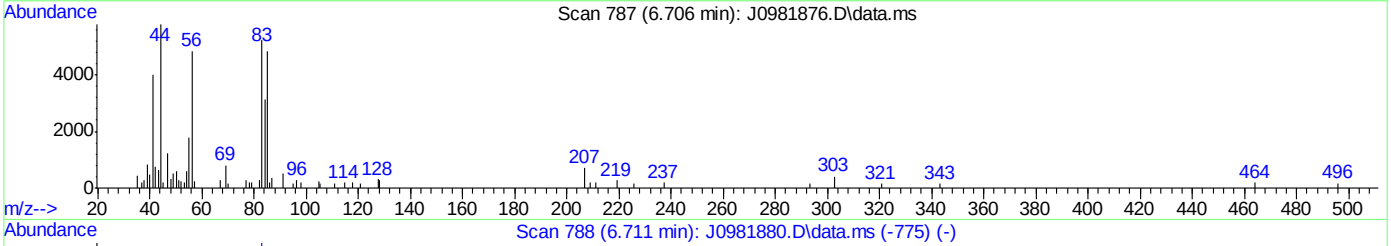
SGS ACCUTEST FA39907

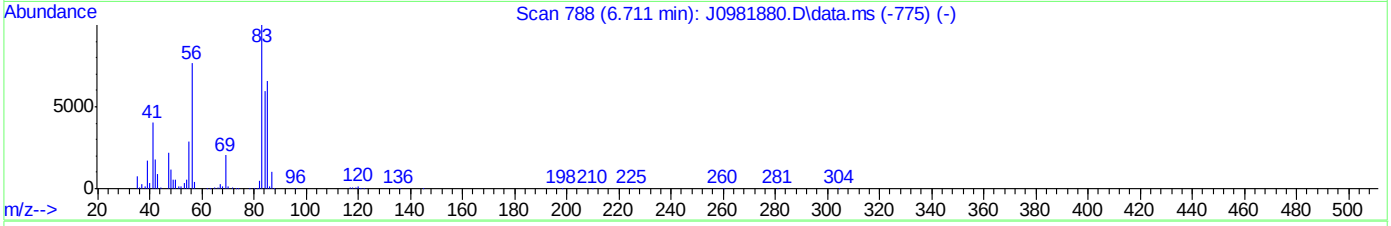
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(32) Cyclohexane

6.706min (-0.000) 0.71ug/L m

response 11643

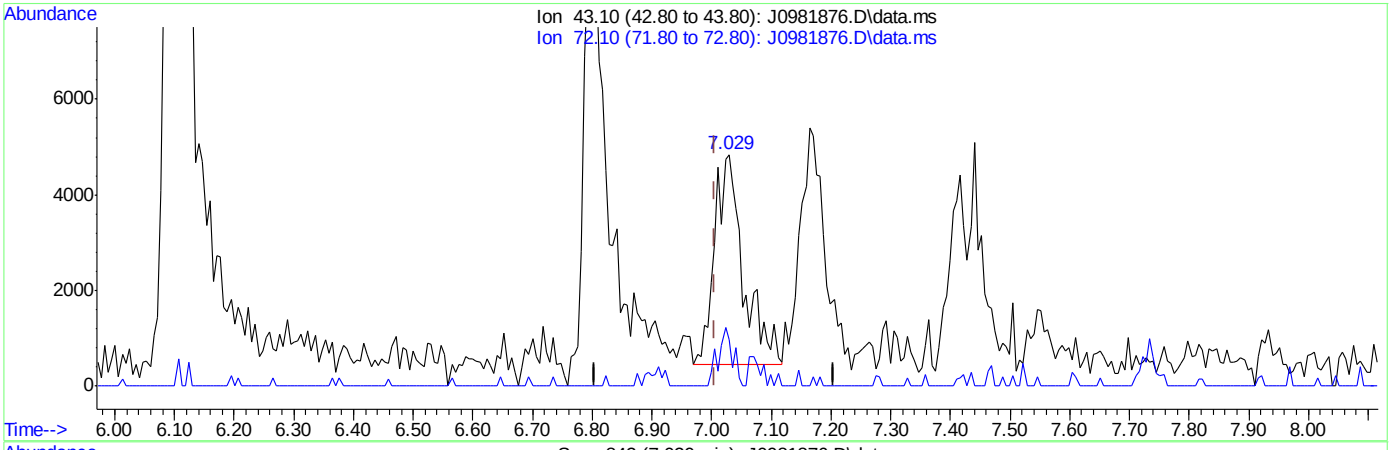
Ion	Exp%	Act%
56.10	100	100
84.10	80.30	64.36
41.10	61.60	82.59#
55.10	38.90	36.96

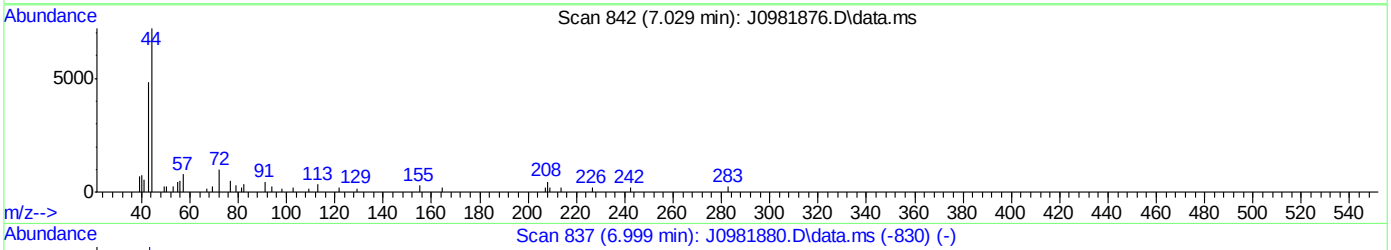
SGS ACCUTEST FA39907

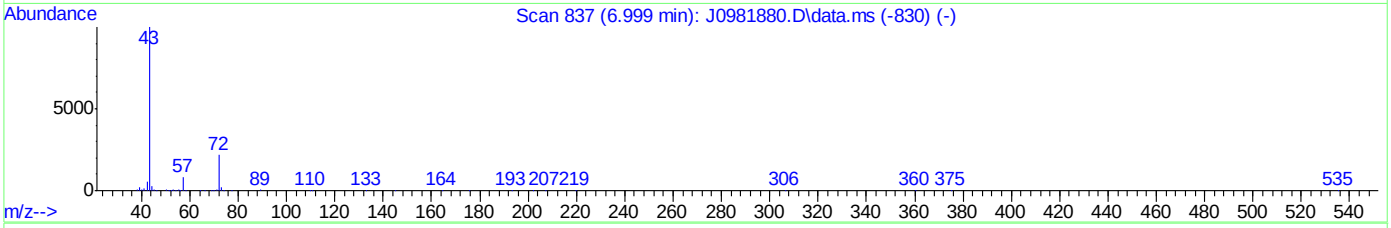
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(39) 2-Butanone

7.029min (+0.024) 4.38ug/L

response 14709

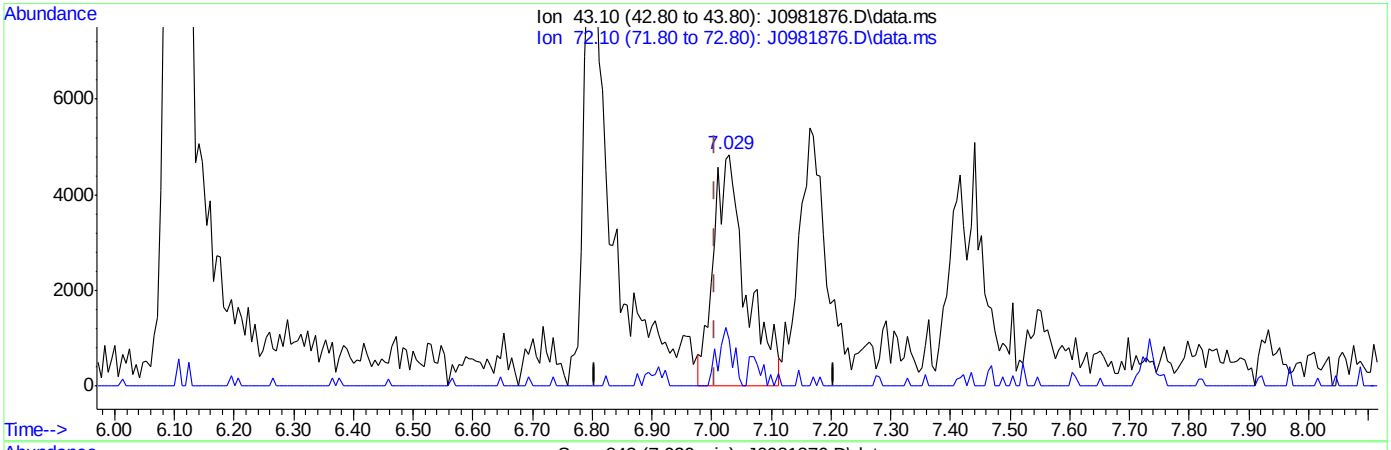
Ion	Exp%	Act%
43.10	100	100
72.10	21.90	21.92
0.00	0.00	0.00
0.00	0.00	0.00

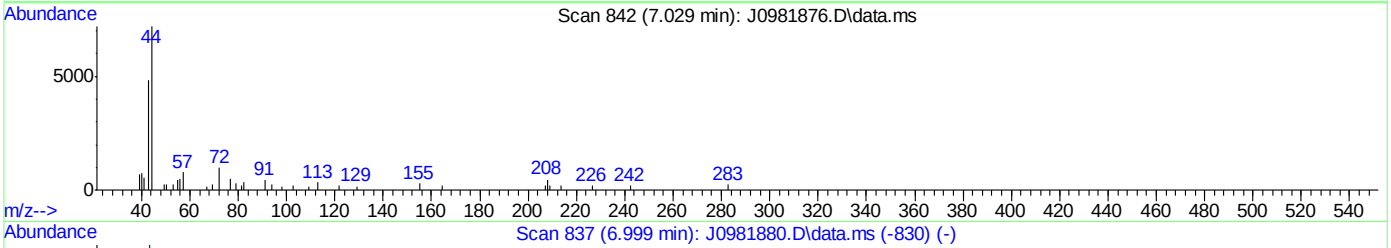
SGS ACCUTEST FA39907

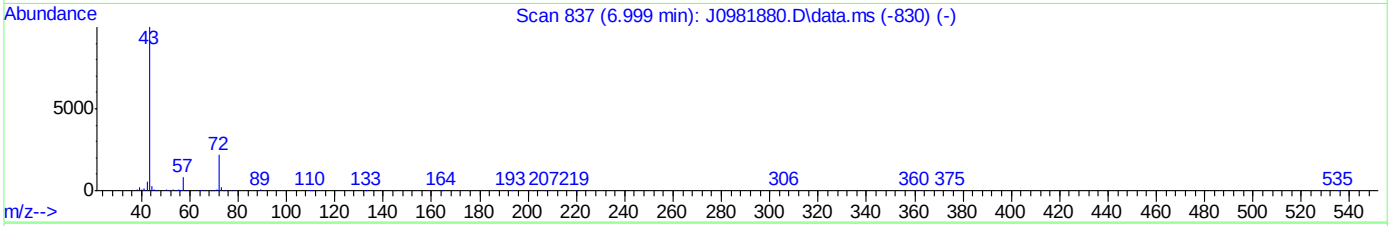
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(39) 2-Butanone

7.029min (+0.024) 5.41ug/L m

response 18192

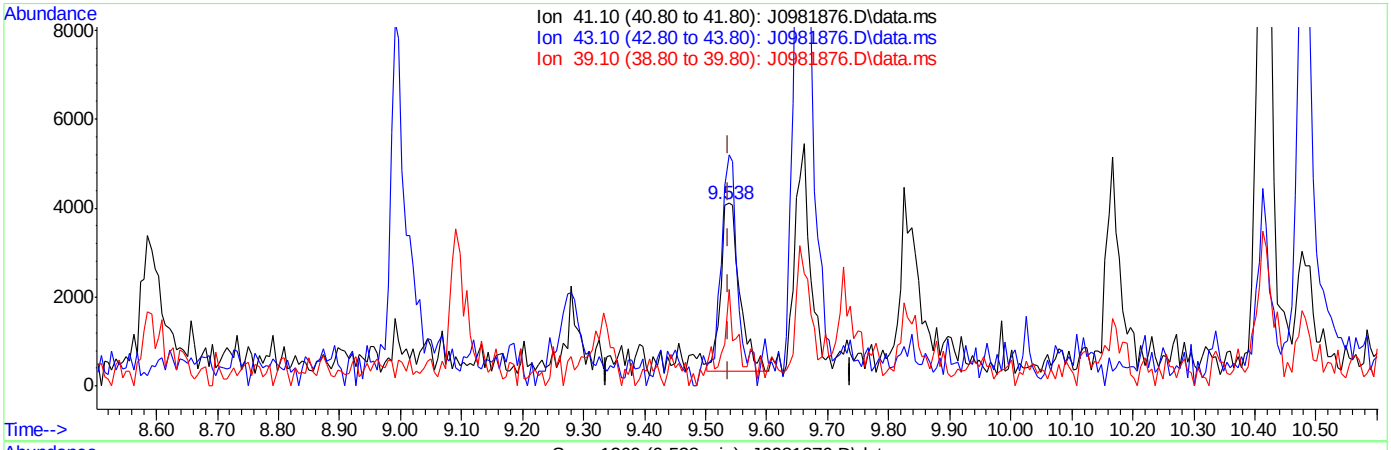
Ion	Exp%	Act%
43.10	100	100
72.10	21.90	19.92
0.00	0.00	0.00
0.00	0.00	0.00

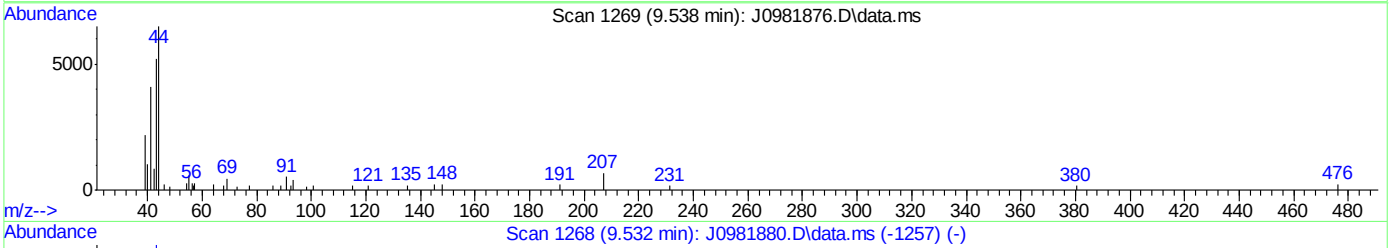
SGS ACCUTEST FA39907

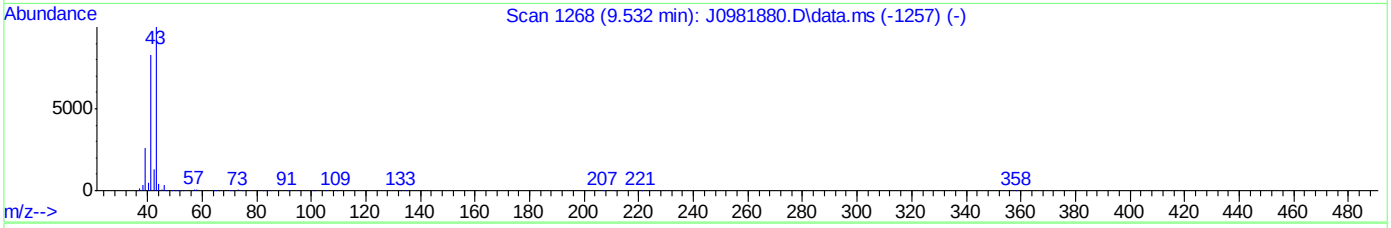
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(59) 2-Nitropropane

9.538min (-0.000) 3.87ug/L

response 7980

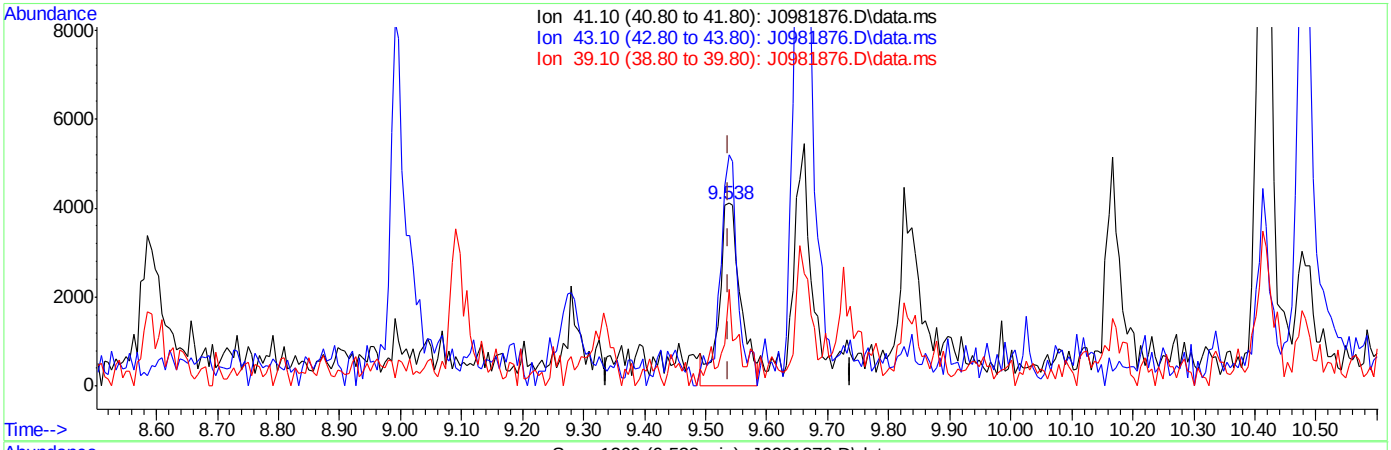
Ion	Exp%	Act%
41.10	100	100
43.10	114.90	125.53
39.10	35.20	45.41
0.00	0.00	0.00

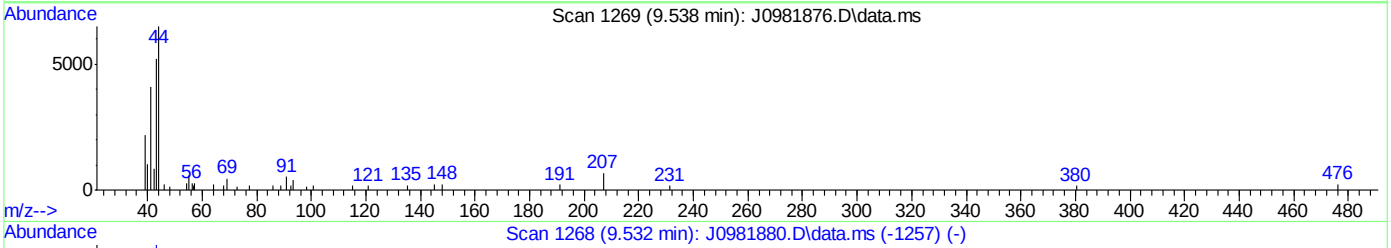
SGS ACCUTEST FA39907

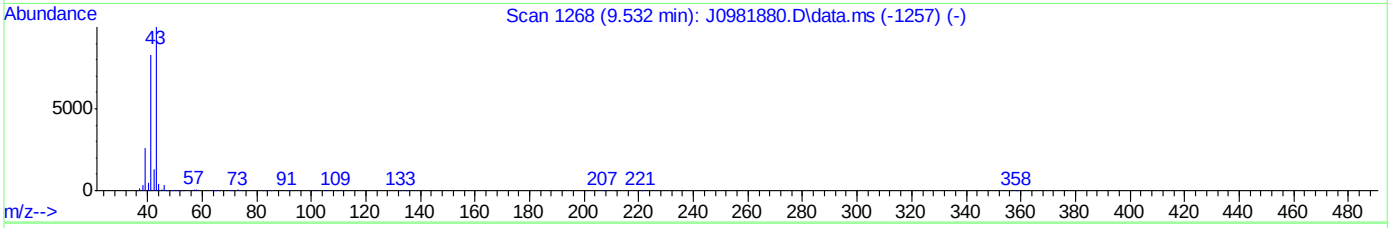
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(59) 2-Nitropropane

9.538min (-0.000) 4.80ug/L m

response 9882

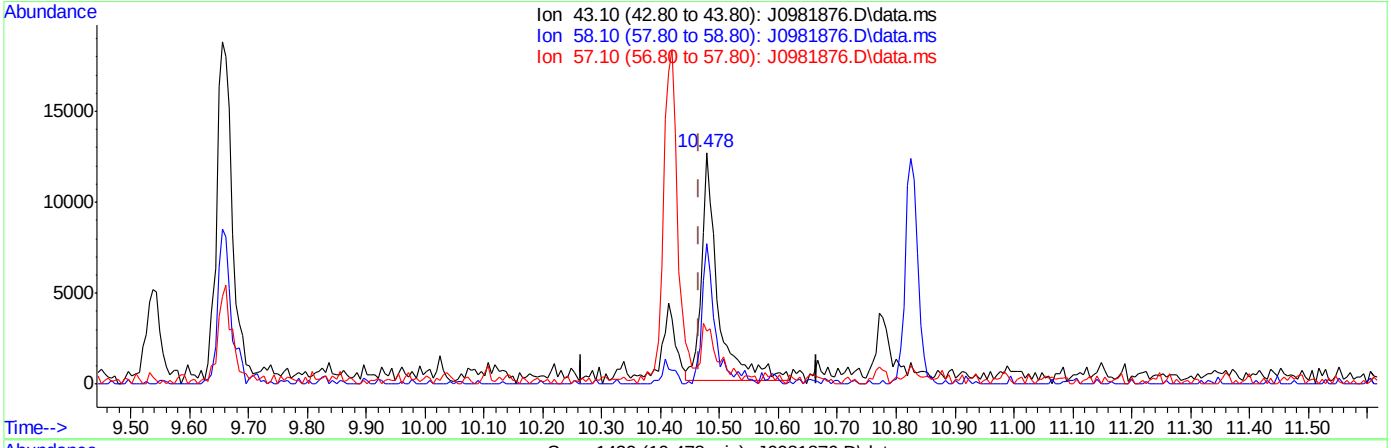
Ion	Exp%	Act%
41.10	100	100
43.10	114.90	126.71
39.10	35.20	53.20
0.00	0.00	0.00

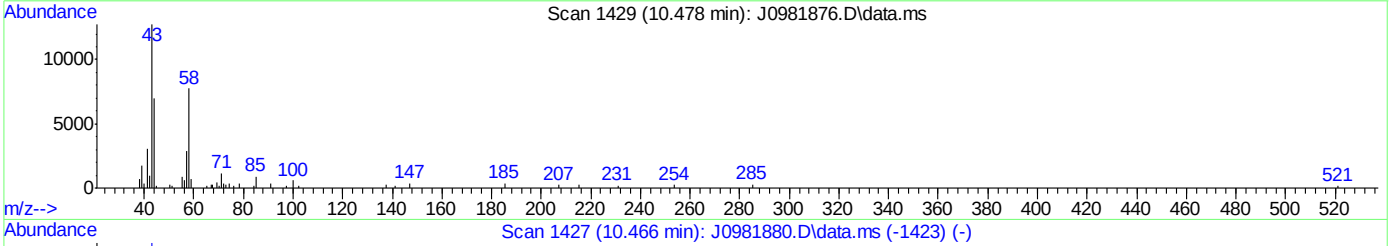
SGS ACCUTEST FA39907

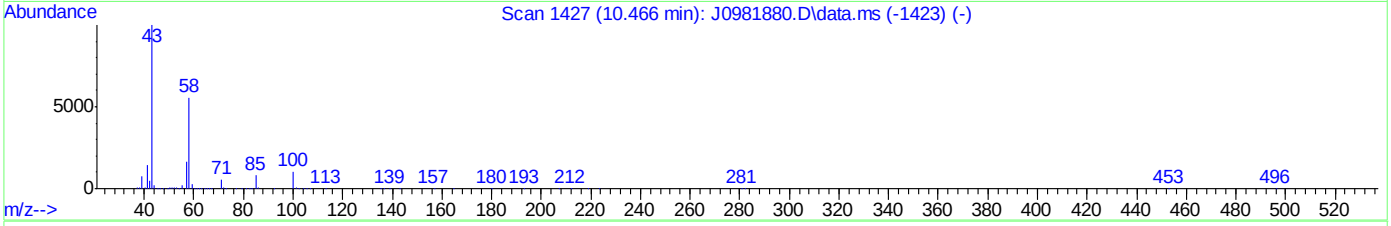
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(68) 2-hexanone

10.478min (+0.012) 4.09ug/L

response 24197

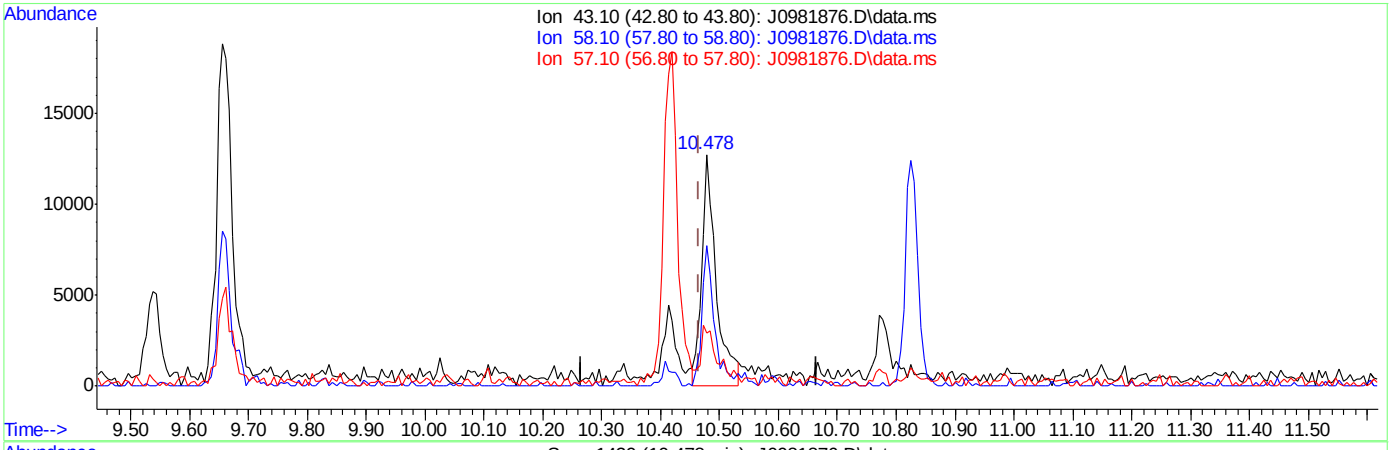
Ion	Exp%	Act%
43.10	100	100
58.10	50.30	61.95
57.10	18.90	19.28
0.00	0.00	0.00

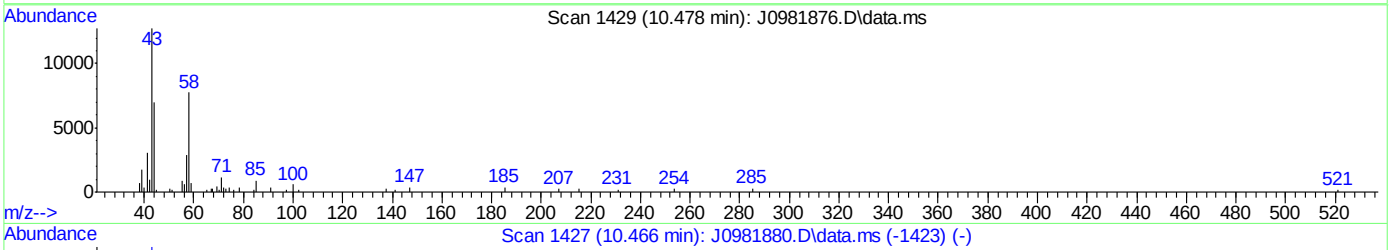
SGS ACCUTEST FA39907

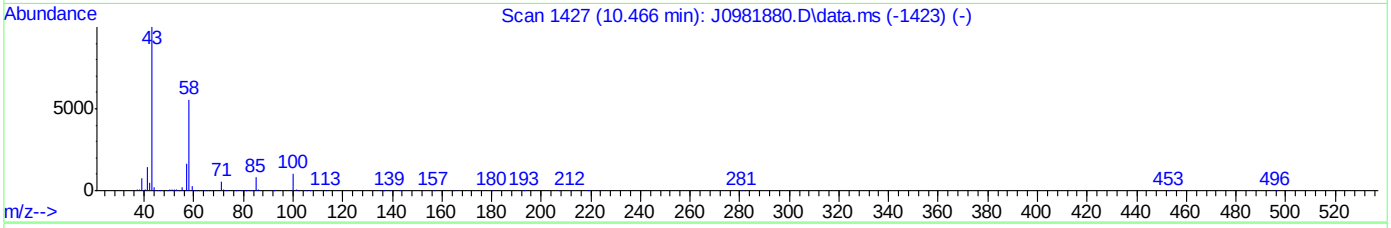
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(68) 2-hexanone

10.478min (+0.012) 3.70ug/L m

response 21891

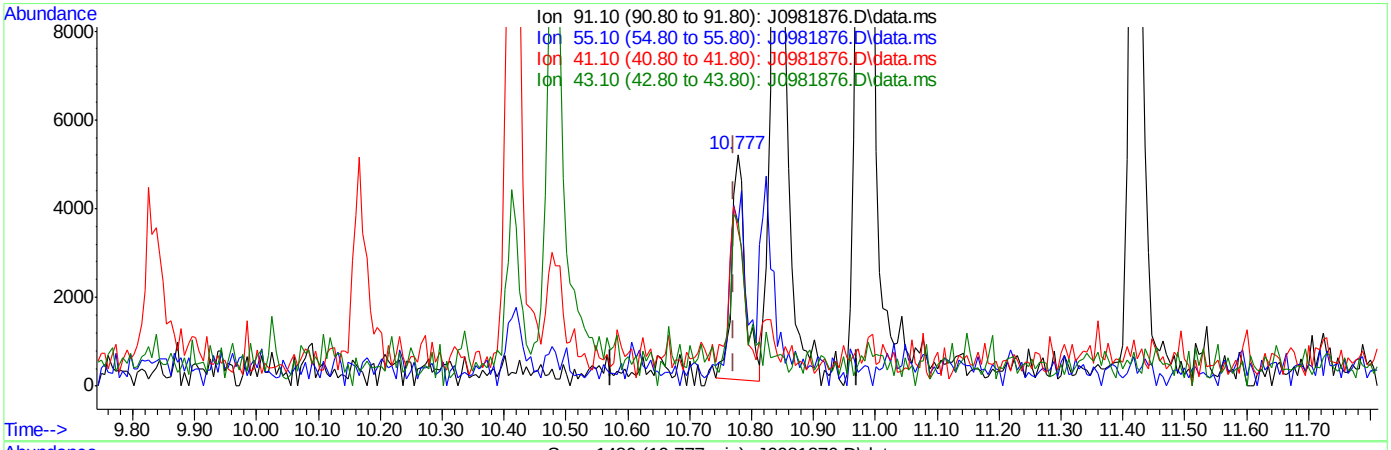
Ion	Exp%	Act%
43.10	100	100
58.10	50.30	60.79
57.10	18.90	22.87
0.00	0.00	0.00

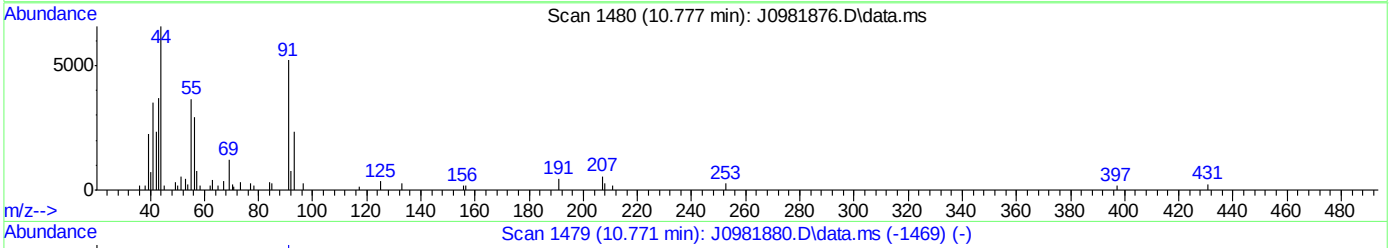
SGS ACCUTEST FA39907

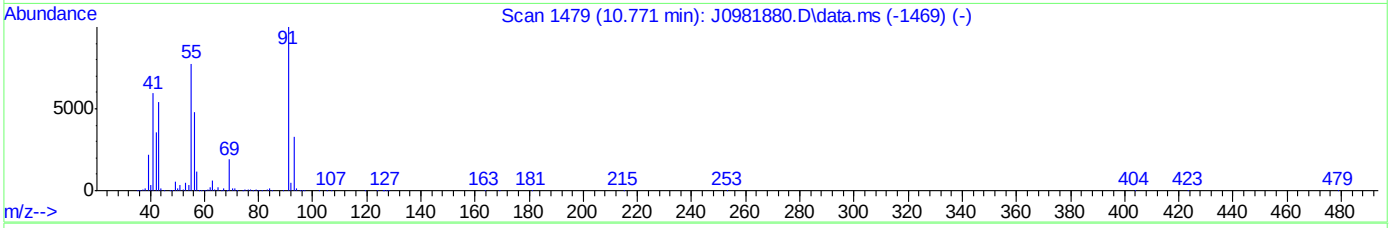
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(69) 1-Chlorohexane

10.777min (+0.005) 0.80ug/L

response 7652

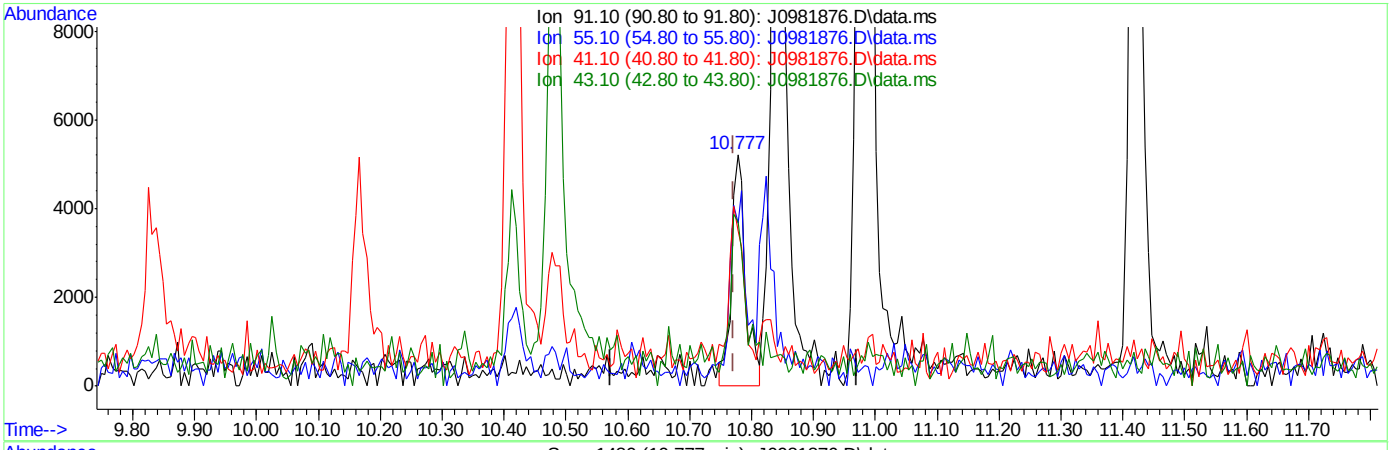
Ion	Exp%	Act%
91.10	100	100
55.10	86.10	63.66#
41.10	74.90	59.26
43.10	57.40	65.33

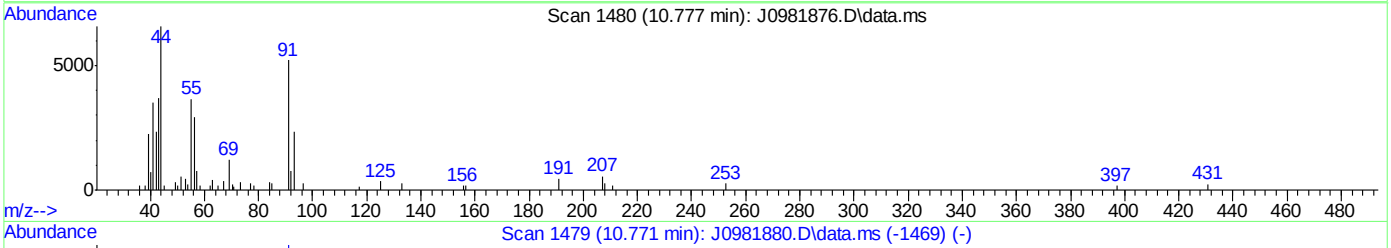
SGS ACCUTEST FA39907

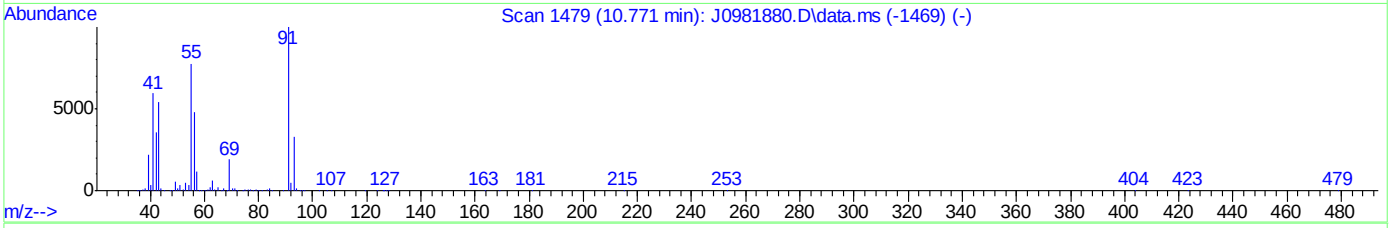
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(69) 1-Chlorohexane

10.777min (+0.005) 0.85ug/L m

response 8106

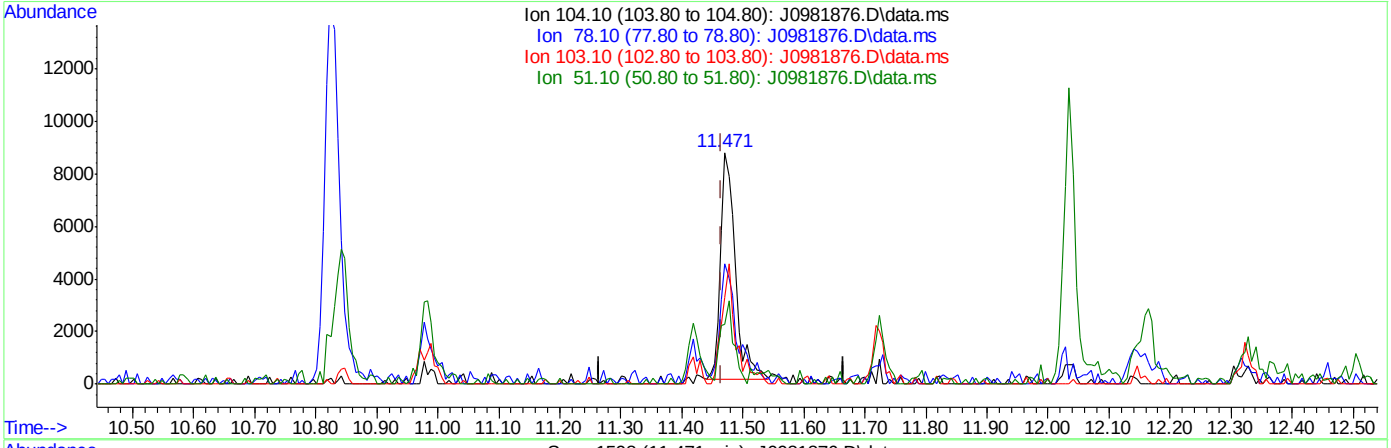
Ion	Exp%	Act%
91.10	100	100
55.10	86.10	70.34
41.10	74.90	67.18
43.10	57.40	70.63

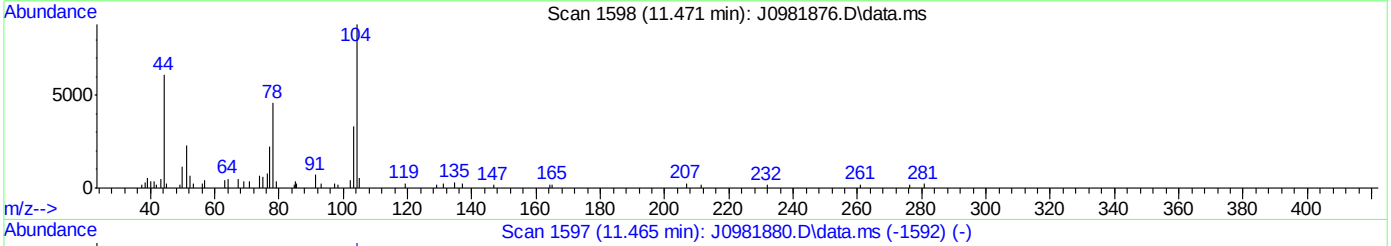
SGS ACCUTEST FA39907

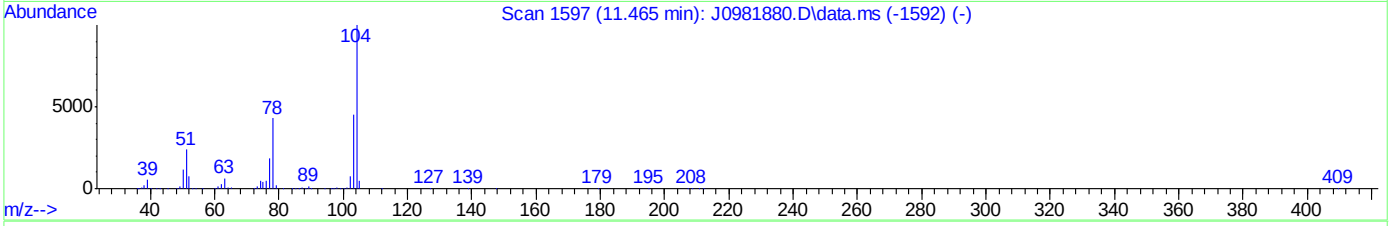
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(75) Styrene ( )

11.471min (+0.006) 0.76ug/L

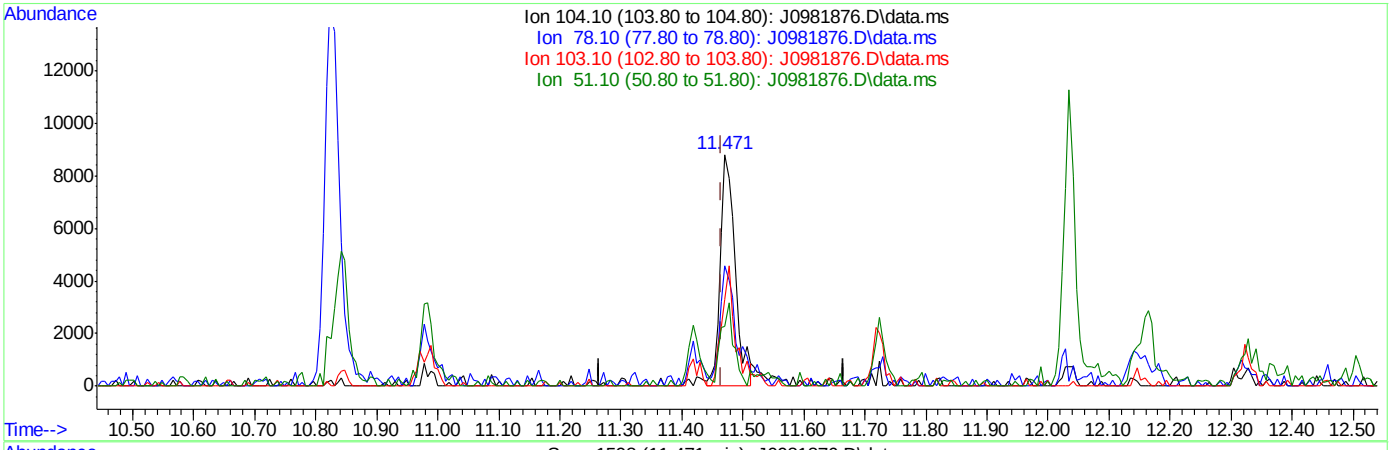
response 14415

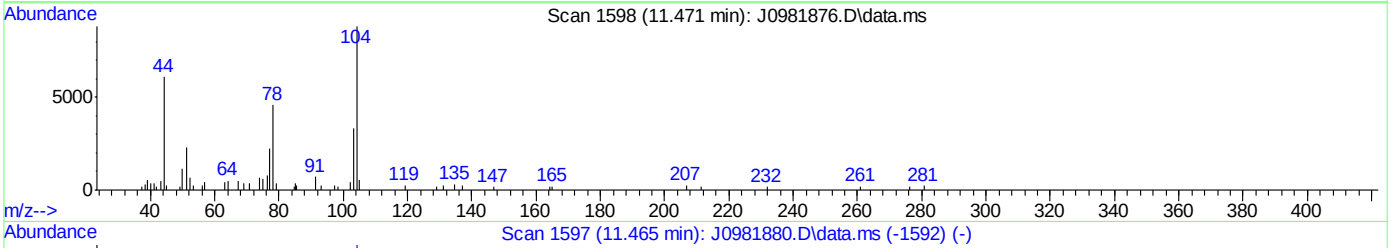
Ion	Exp%	Act%
104.10	100	100
78.10	49.20	49.95
103.10	49.10	38.26
51.10	29.40	20.94

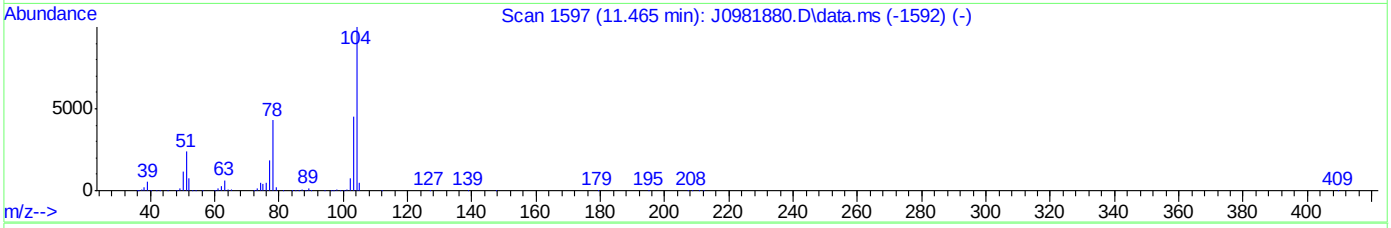
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(75) Styrene ( )

11.471min (+0.006) 0.78ug/L m

response 14812

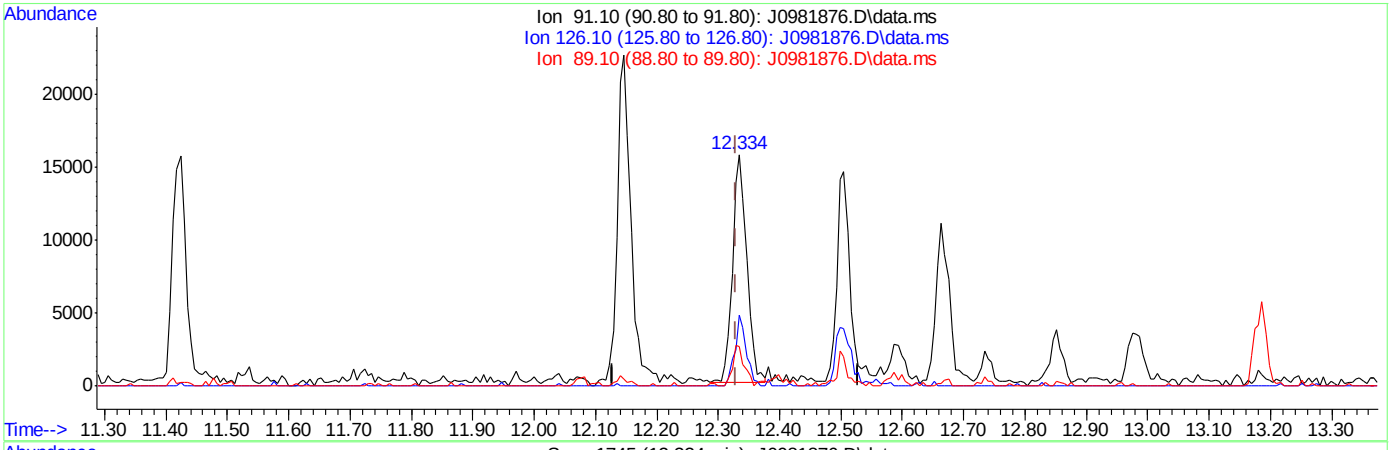
Ion	Exp%	Act%
104.10	100	100
78.10	49.20	51.77
103.10	49.10	37.37
51.10	29.40	25.89

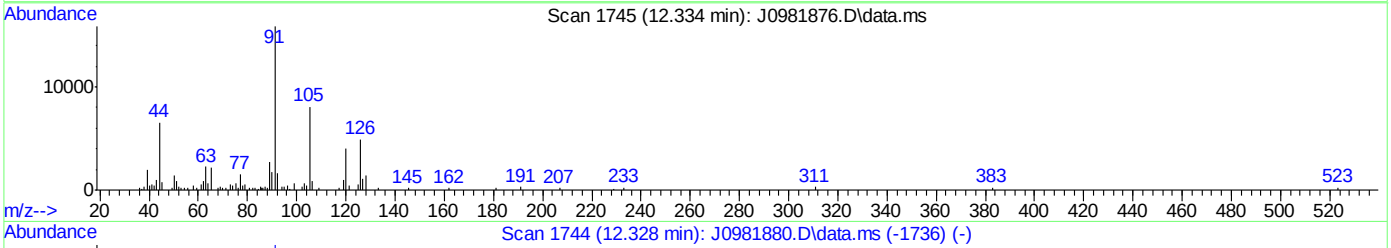
SGS ACCUTEST FA39907

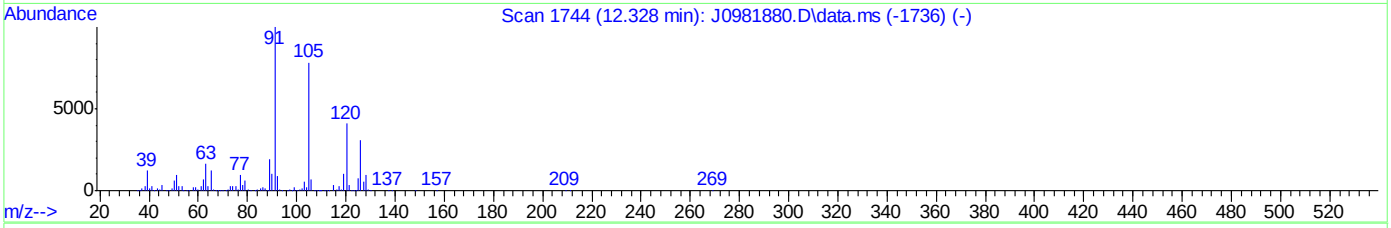
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(85) 2-Chlorotoluene ( )

12.334min (+0.005) 0.90ug/L

response 24926

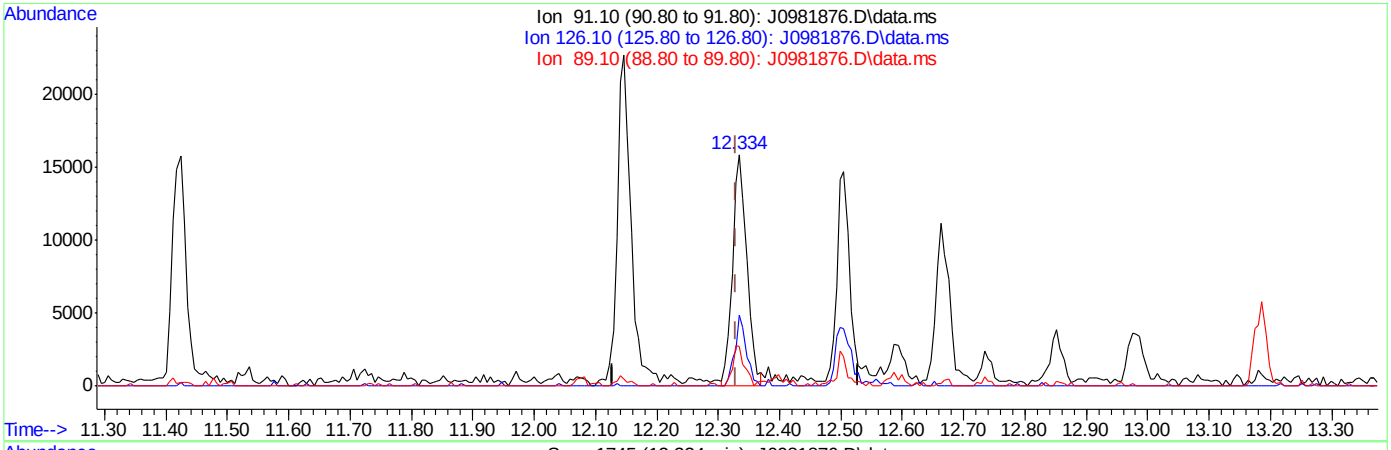
Ion	Exp%	Act%
91.10	100	100
126.10	29.80	31.34
89.10	19.70	16.20
0.00	0.00	0.00

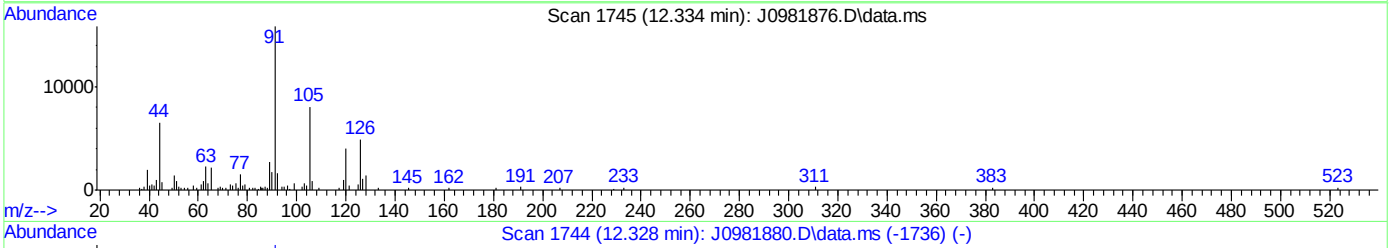
SGS ACCUTEST FA39907

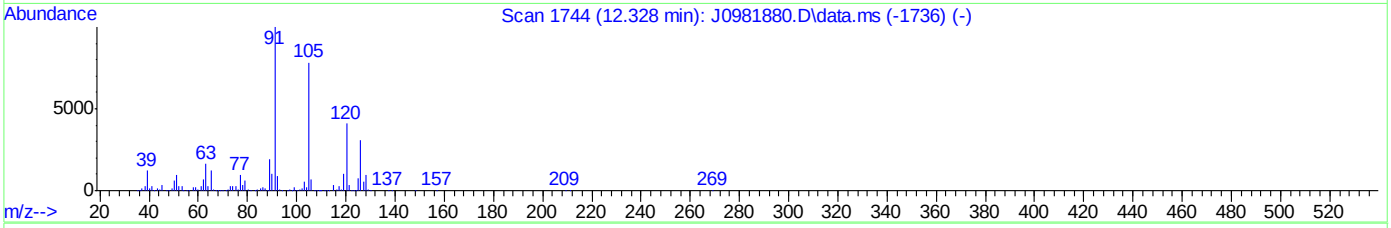
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981876.D
Acq On : 30 Dec 2016 12:50 pm
Operator : melissam
Sample : ic5529-1 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Dec 30 15:47:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration







TIC: J0981876.D\data.ms

(85) 2-Chlorotoluene ( )

12.334min (+0.005) 0.92ug/L m

response 25678

Ion	Exp%	Act%
91.10	100	100
126.10	29.80	30.84
89.10	19.70	16.95
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 08:18:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	651969	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	481887	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	254610	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	85080	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	156413	41.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 83.78%			
46) 1,2-Dichloroethane-d4	7.452	65	207678	39.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 79.68%			
57) Toluene-d8	9.279	98	622468	52.11	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.22%			
79) 4-Bromofluorobenzene	12.035	95	255392	60.58	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 121.16%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.652	85	38984	5.07	ug/L	97
3) Chloromethane	2.863	50	56662	4.28	ug/L	92
4) Vinyl Chloride	2.998	62	34010	2.97	ug/L	80
5) 1,3-Butadiene	3.010	54	19288	2.08	ug/L #	82
6) Bromomethane	3.427	94	20711	3.04	ug/L	83
7) Chloroethane	3.592	64	15924	2.95	ug/L	86
8) Trichlorofluoromethane	3.809	101	41959m	2.39	ug/L	
9) Ethyl Ether	4.103	59	29306	4.22	ug/L	91
10) 1,2-Dichlorotrifluoroe...	4.332	67	36883	4.10	ug/L	90
11) 1,1-Dichloroethene	4.379	61	52500	4.53	ug/L	88
12) Freon 113	4.438	101	31031	3.76	ug/L	93
13) Carbon Disulfide	4.449	76	105823	4.38	ug/L	98
14) Iodomethane	4.561	142	54842	4.37	ug/L	98
15) Allyl chloride	4.902	41	57328	4.11	ug/L	86
16) Methylene Chloride	5.025	49	57719	4.07	ug/L	98
17) Acetone	5.049	58	12557	19.89	ug/L #	84
18) Methyl acetate	5.178	74	21646	21.90	ug/L	96
19) trans-1,2-Dichloroethene	5.207	61	51044	4.90	ug/L	97
20) Hexane	5.278	56	38158	4.36	ug/L #	84
21) Methyl Tert Butyl Ether	5.313	73	98055	5.08	ug/L	93
22) Acetonitrile	5.583	40	19922	36.38	ug/L #	61
23) Di-isopropyl ether	5.695	45	134941	4.52	ug/L	93
24) Chloroprene	5.848	53	45921	3.47	ug/L	84
25) 1,1-Dichloroethane	5.871	63	59570	3.92	ug/L	90
26) Acrylonitrile	5.907	53	65699	21.90	ug/L	98
27) ETBE	6.095	59	124064	4.66	ug/L	98
28) Vinyl acetate	6.089	43	396482	19.74	ug/L	92
29) cis-1,2-Dichloroethene	6.453	96	37345	5.51	ug/L	85
30) 2,2-Dichloropropane	6.576	77	52496	4.85	ug/L	99
31) Bromochloromethane	6.670	128	15668	4.19	ug/L #	86
32) Cyclohexane	6.706	56	68755	4.57	ug/L	91
33) Chloroform	6.712	83	61752	4.39	ug/L	97
34) Ethyl acetate	6.788	43	157669	19.89	ug/L	91

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 08:18:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.900	42	12167m	5.62	ug/L		
37) Carbon Tetrachloride	6.905	117	40446m	3.67	ug/L		
38) 1,1,1-Trichloroethane	6.970	97	53878	4.54	ug/L		89
39) 2-Butanone	7.005	43	66743	21.67	ug/L		92
40) 1,1-Dichloropropene	7.076	75	41855	4.99	ug/L		89
41) tert-Butyl Formate	7.164	59	377105	59.73	ug/L	#	80
42) Propionitrile	7.311	54	45249	42.13	ug/L		97
43) Methacrylonitrile	7.340	41	206810	40.35	ug/L		92
44) Benzene	7.334	78	116098	4.93	ug/L		92
45) TAME	7.411	73	99915	4.85	ug/L		87
47) 1,2-Dichloroethane	7.528	62	46766	4.10	ug/L		94
48) Trichloroethene	7.916	95	31987	4.58	ug/L		94
49) Methylcyclohexane	7.934	83	59638	4.48	ug/L		90
50) Dibromomethane	8.339	93	18691	4.33	ug/L		89
51) 1,2-Dichloropropane	8.427	63	34622	4.81	ug/L		86
52) Bromodichloromethane	8.468	83	42887	4.50	ug/L		91
53) Methyl methacrylate	8.574	41	27492m	4.41	ug/L		
54) 2-Chloroethyl vinyl ether	8.985	63	104629	21.88	ug/L		97
55) cis-1,3-Dichloropropene	9.085	75	54154	4.51	ug/L		97
58) Toluene	9.332	91	125263	5.36	ug/L		99
59) 2-Nitropropane	9.532	41	38394	20.42	ug/L		96
60) 4-Methyl-2-pentanone	9.655	43	173095	23.16	ug/L		95
61) trans-1,3-Dichloropropene	9.720	75	43431	4.66	ug/L		94
62) Tetrachloroethene	9.737	166	34173	4.66	ug/L		83
63) Ethyl methacrylate	9.820	69	40428	5.50	ug/L		92
64) 1,1,2-Trichloroethane	9.878	83	24264	4.88	ug/L		82
65) Dibromochloromethane	10.084	129	29814	4.93	ug/L		100
66) 1,3-Dichloropropane	10.161	76	49194	4.83	ug/L		95
67) 1,2-Dibromoethane	10.343	107	28039	5.02	ug/L		95
68) 2-hexanone	10.472	43	113734	21.22	ug/L		100
69) 1-Chlorohexane	10.772	91	41916	4.80	ug/L		94
70) Ethylbenzene	10.842	91	145750	5.42	ug/L		93
71) Chlorobenzene	10.842	112	90634	5.06	ug/L		92
72) 1,1,1,2-Tetrachloroethane	10.895	131	30989	4.38	ug/L		95
73) m,p-Xylene	10.977	91	238080	9.73	ug/L		94
74) o-Xylene	11.418	91	124739	5.02	ug/L		96
75) Styrene	11.465	104	86368	4.97	ug/L		98
76) Bromoform	11.524	173	19633	4.91	ug/L		97
77) Isopropylbenzene	11.723	105	155475	5.12	ug/L		95
80) cis-1,4-Dichloro-2-butene	12.076	53	10386	4.76	ug/L	#	70
81) n-Propylbenzene	12.141	91	191427	5.07	ug/L		98
82) Bromobenzene	12.164	156	37814	5.52	ug/L		91
83) 1,1,2,2-Tetrachloroethane	12.199	83	38985	5.46	ug/L		92
84) 1,3,5-Trimethylbenzene	12.323	105	121157	4.97	ug/L		97
85) 2-Chlorotoluene	12.329	91	128199	4.99	ug/L		99
86) trans-1,4-Dichloro-2-B...	12.381	53	11560	4.81	ug/L	#	78
87) 1,2,3-Trichloropropane	12.364	110	10138	4.58	ug/L		96
88) Cyclohexanone	12.428	55	8707	31.50	ug/L		79
89) 4-Chlorotoluene	12.499	91	119194	5.00	ug/L		100
90) a-Methyl Styrene	12.587	118	67677	4.94	ug/L		96

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 08:18:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.664	91	75771	4.60	ug/L	96
92) 1,2,4-Trimethylbenzene	12.734	105	123976	4.92	ug/L	99
93) Pentachloroethane	12.716	167	21326	4.58	ug/L	93
94) sec-Butylbenzene	12.846	105	165731	4.82	ug/L	97
95) 4-Isopropyltoluene	12.981	119	129498	5.06	ug/L	98
96) 1,3-Dichlorobenzene	13.116	146	76715	5.35	ug/L	95
97) 1,4-Dichlorobenzene	13.198	146	79766	5.17	ug/L	94
98) n-Butylbenzene	13.416	92	78432	5.13	ug/L	92
99) Benzyl Chloride	13.433	126	14609	5.14	ug/L #	57
100) 1,2-Dichlorobenzene	13.627	146	73910	5.15	ug/L	94
101) 1,2-Dibromo-3-Chloropr...	14.367	75	8094	6.12	ug/L #	75
102) Hexachlorobutadiene	14.908	225	32744	6.35	ug/L	83
103) 1,2,4-Trichlorobenzene	14.955	180	54327	5.77	ug/L	98
104) Naphthalene	15.243	128	103330	5.68	ug/L	95
105) 1,2,3-Trichlorobenzene	15.407	180	48561	5.35	ug/L	97
107) Ethanol	4.250	45	8598m	86.95	ug/L	
108) acrolein	4.743	56	31635	19.20	ug/L	82
109) Tert Butyl Alcohol	5.354	59	37240	44.20	ug/L	89
110) tert Amyl alcohol	7.564	59	28274	43.35	ug/L	83
111) Isobutyl alcohol	7.440	42	22834	65.25	ug/L #	82
112) 1,4-Dioxane	8.656	88	5748	73.74	ug/L	81
113) 3,3-Dimethyl-1-butanol	10.413	57	149574	189.66	ug/L	98

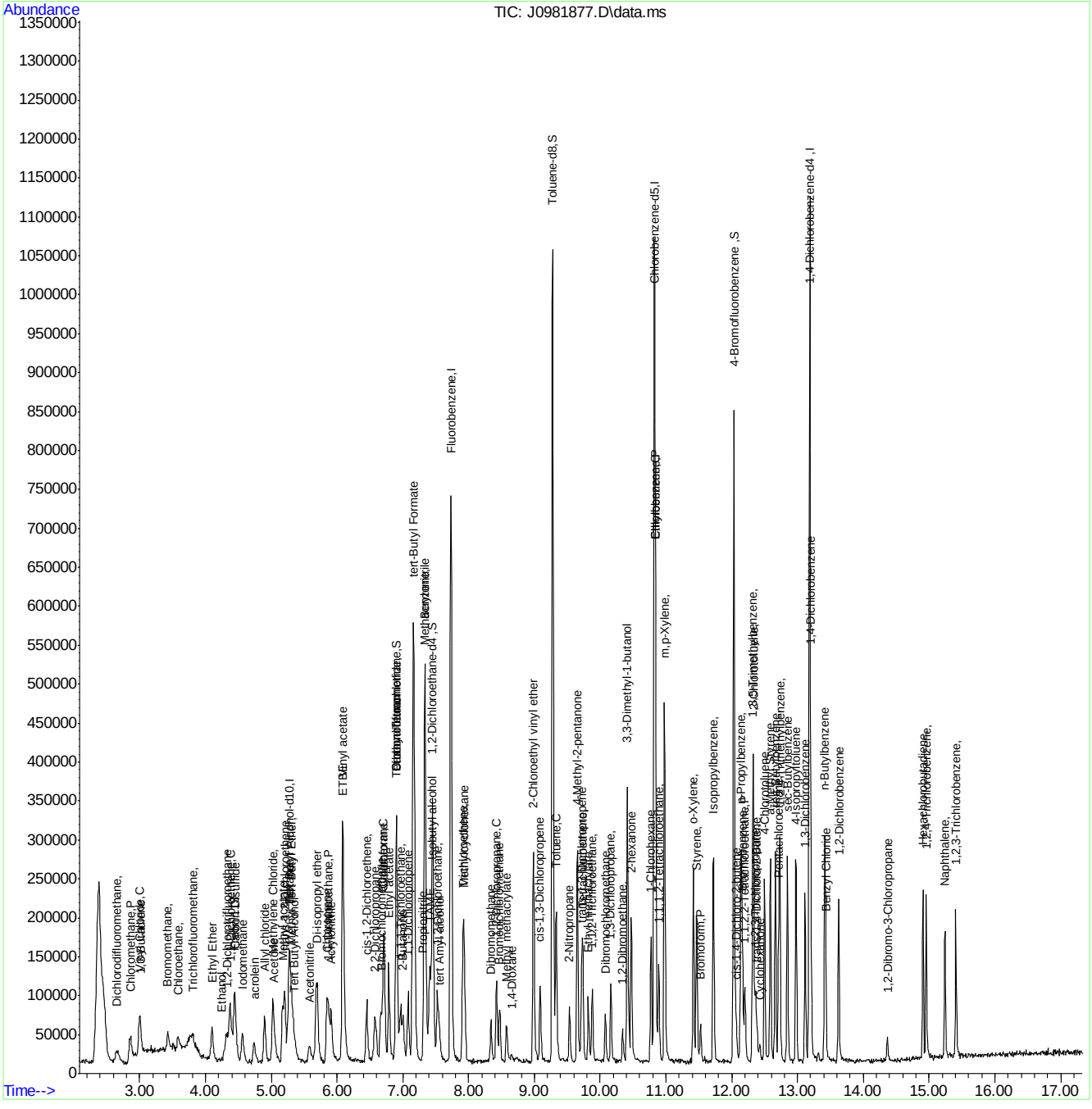
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 08:18:04 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration


Abundance
TIC: J0981877.D\data.ms
Time-->
Toluene-d8,S
Chlorobenzene-d5,I
4-Bromofluorobenzene ,S
1,4-Dichlorobenzene-d4 ,I
Fluorobenzene,I
tert-Butyl Formate
1,2-Dichloroethane-d4 ,S
2-Chloroethyl vinyl ether
cis-1,3-Dichloropropene
Toluene,C
2-Nitropropane
4-Methyl-2-pentanone
3,3-Dimethyl-1-butanol
2-hexanone
1,2-Dibromoethane,
m,p-Xylene,
o-Xylene,
Styrene,
Isopropylbenzene,
Bromoform,P
n-Propylbenzene,
n-Butylbenzene
1,2-Dichlorobenzene
Benzyl Chloride
1,2-Dibromo-3-Chloropropane
Naphthalene,
1,2,3-Trichlorobenzene,
Dichlorodifluoromethane,
Chloromethane,P
Bromomethane,
Chloroethane,
Trichlorofluoromethane,
Ethyl Ether
Iodomethane
acrolein
Allyl chloride
Acetonitrile,
Di-isopropyl ether
ETBE
Ethyl acetate
cis-1,2-Dichloroethene,
1,4-Dioxane
Dibromomethane
Bromochloromethane,C
Methyl methacrylate
Propionitrile
tert Amyl alcohol
Methyl Acrylate
Methyl Methacrylate
Ethyl Methacrylate
Methacrylonitrile
Isobutyl alcohol
Methyl Acrylate
Propionitrile
Methyl Methacrylate
Ethyl Methacrylate
Methacrylonitrile
Isobutyl alcohol
Propanol-d10,I
Ethanol-d5,I
Ethanol-d5,I
Methyl Acrylate
Propionitrile
Methyl Methacrylate
Ethyl Methacrylate
Methacrylonitrile
Isobutyl alcohol
Propanol-d10

Manual Integration Approval Summary

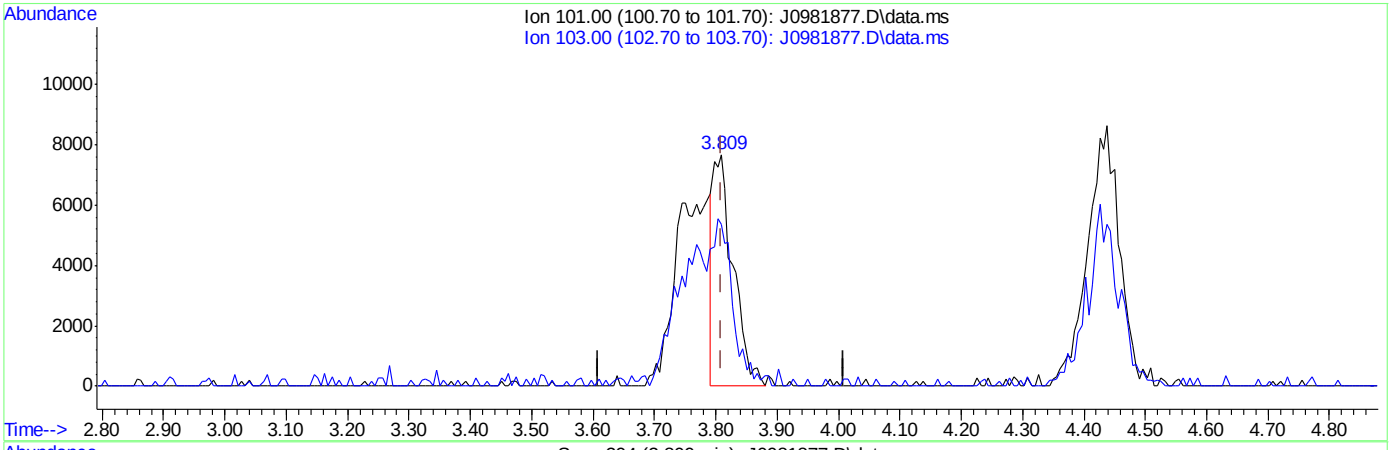
Sample Number:	VJ5529-IC5529	**Method:**	SW846 8260B
Lab FileID:	J0981877.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 13:13	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

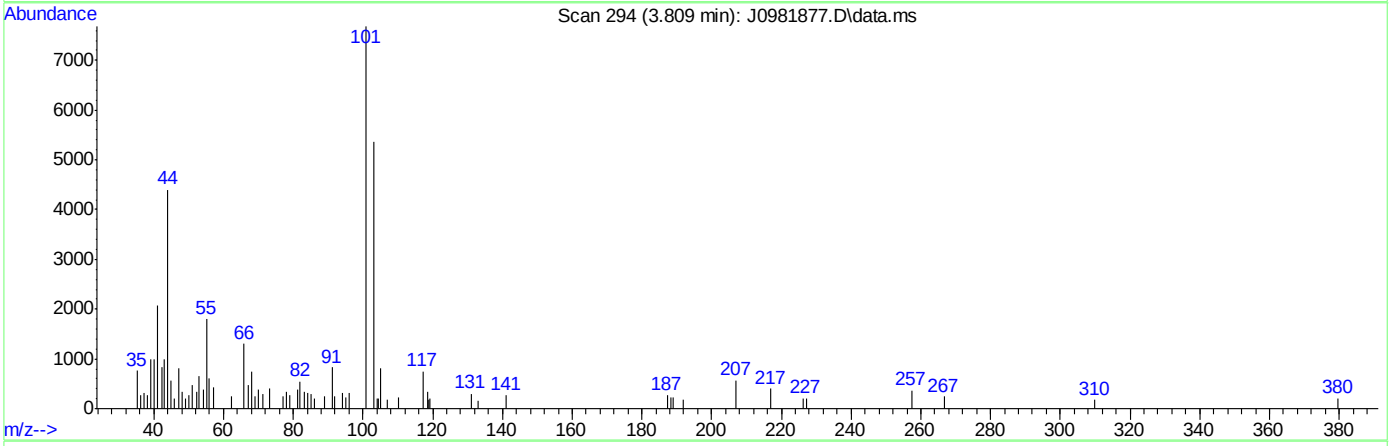
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.25	Poor instrument integration
Tetrahydrofuran	109-99-9		6.90	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak
Methyl Methacrylate	80-62-6		8.57	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.809min (+0.000) 0.98ug/L

response 17150

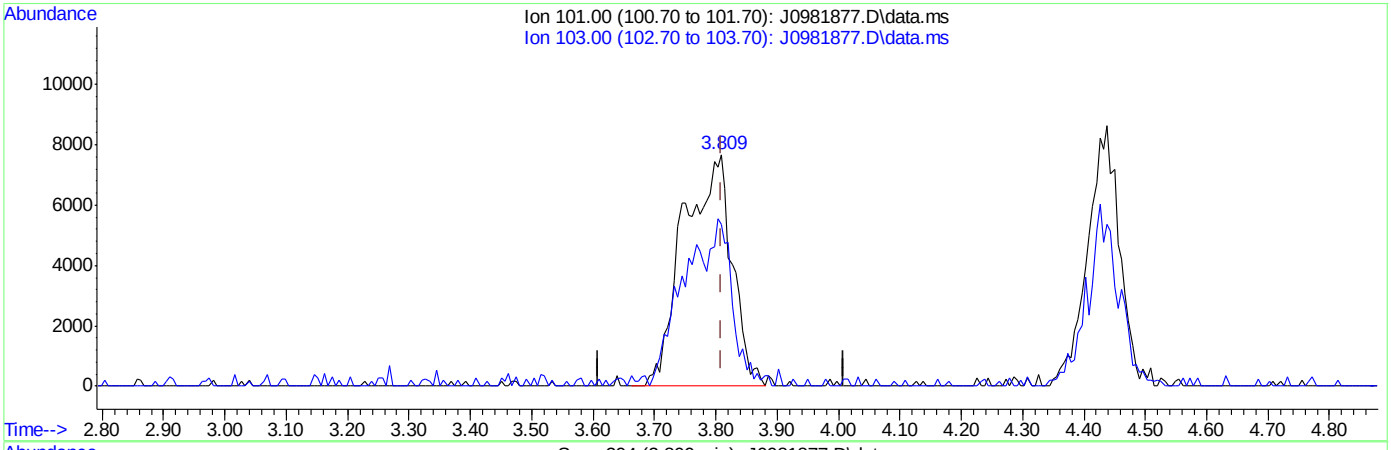
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	65.50
0.00	0.00	0.00
0.00	0.00	0.00

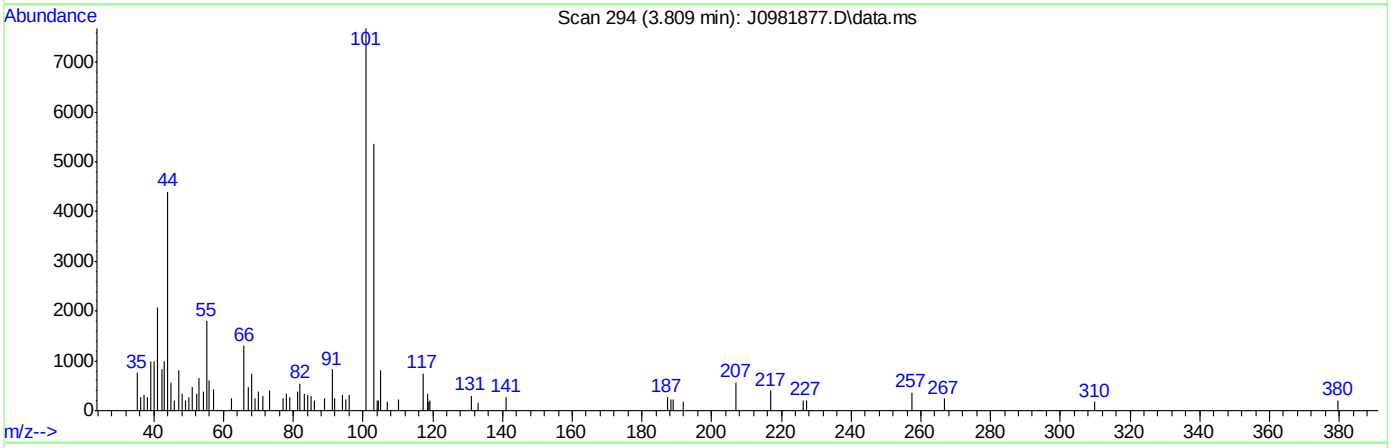
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.809min (+0.000) 2.39ug/L m

response 41959

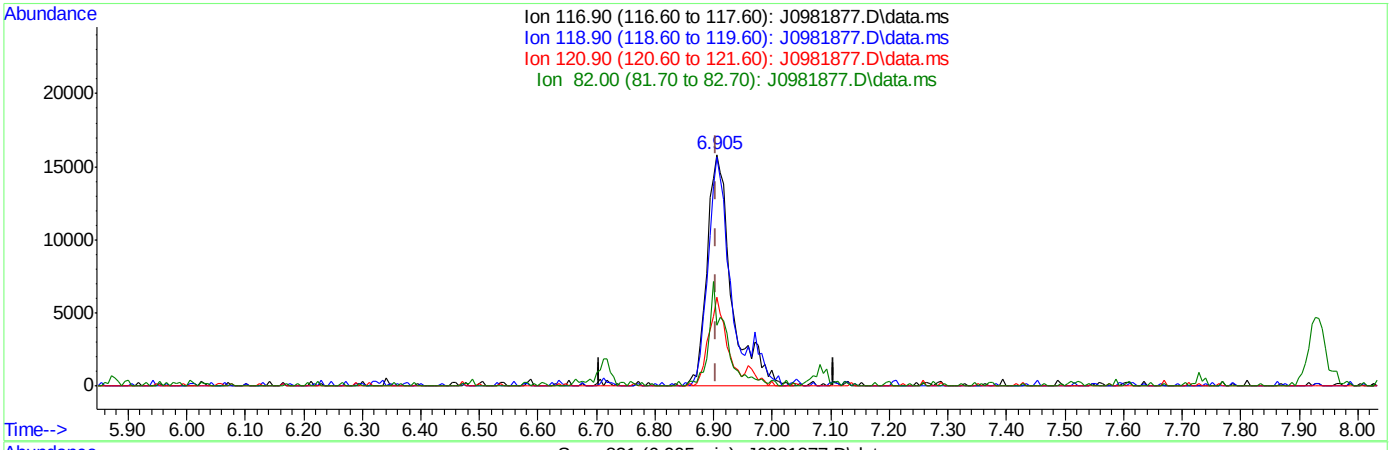
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	69.82
0.00	0.00	0.00
0.00	0.00	0.00

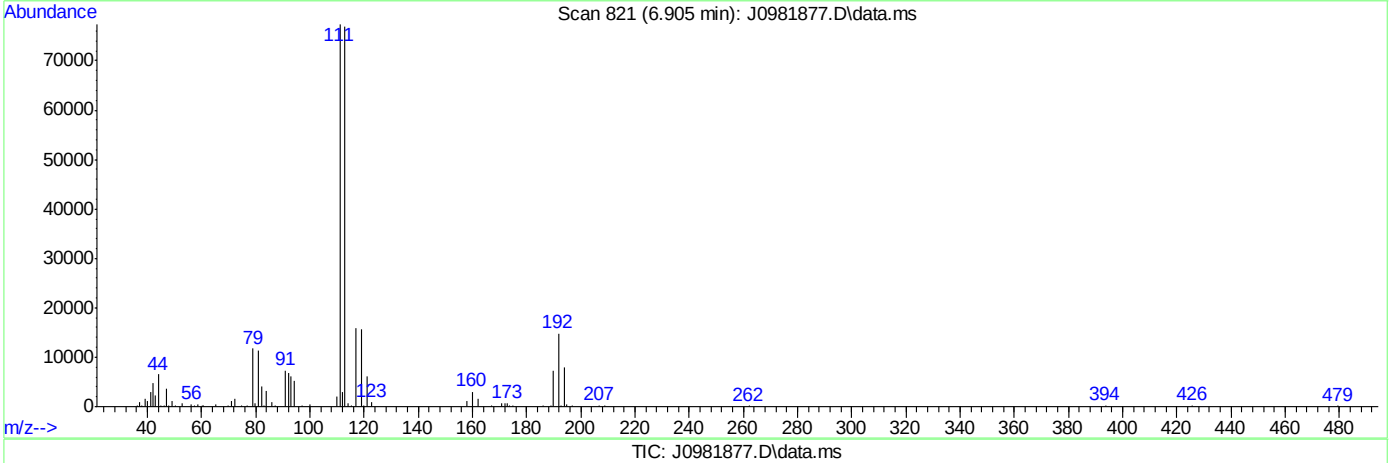
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 4.27ug/L

response 47036

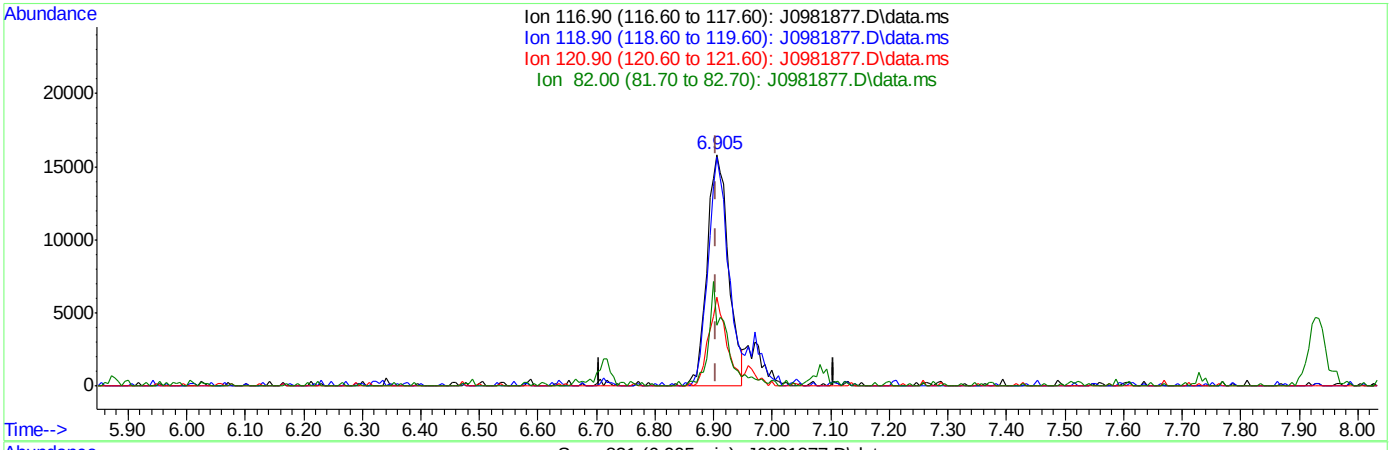
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	98.68
120.90	28.60	38.25
82.00	22.10	26.50

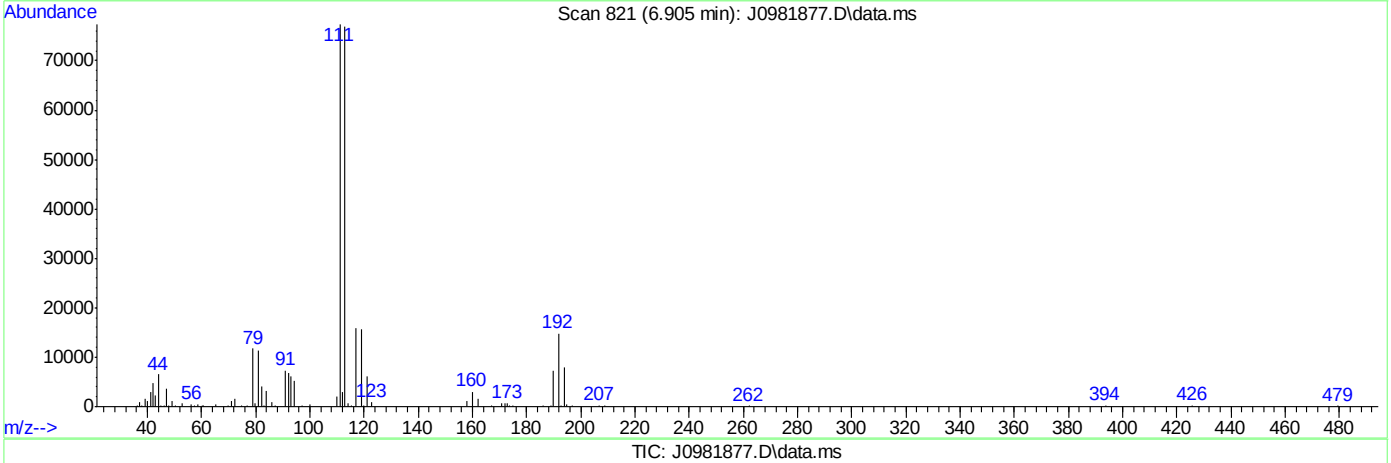
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 3.67ug/L m

response 40446

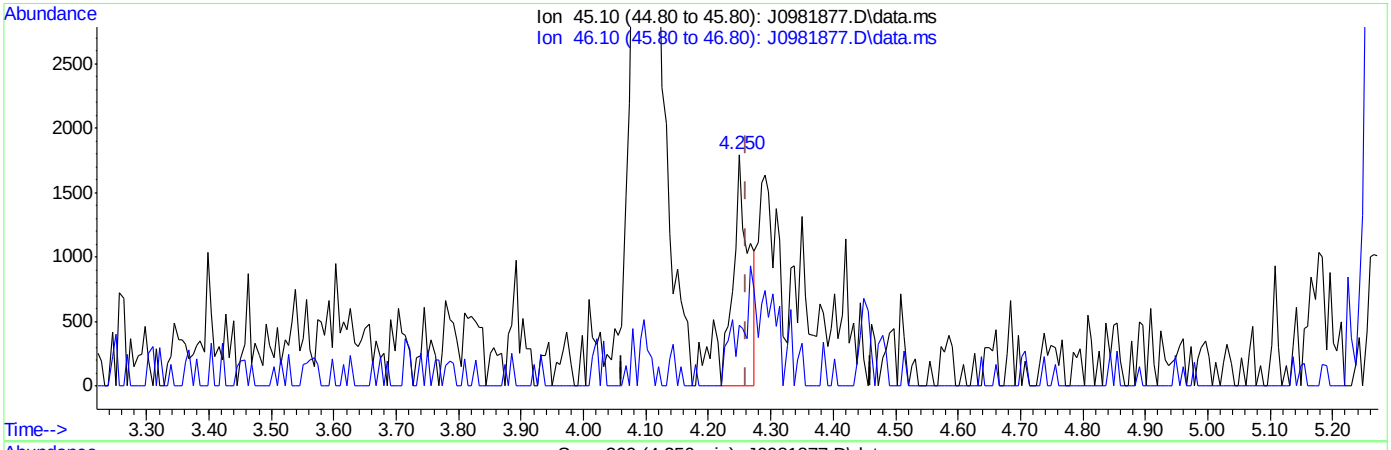
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	98.68
120.90	28.60	38.25
82.00	22.10	26.50

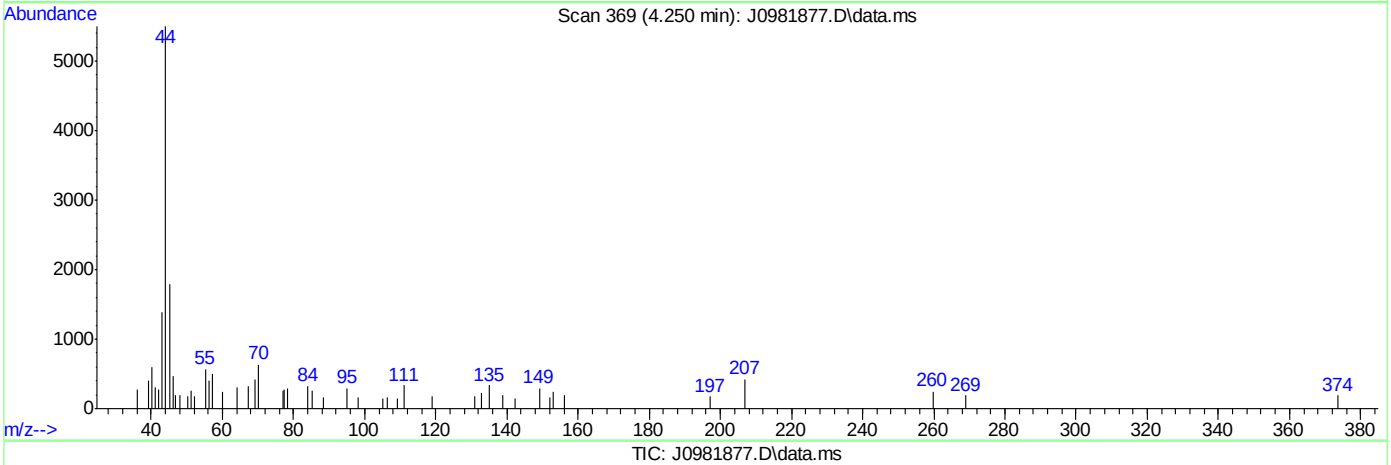
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(107) Ethanol

4.250min (-0.011) 31.37ug/L

response 3125

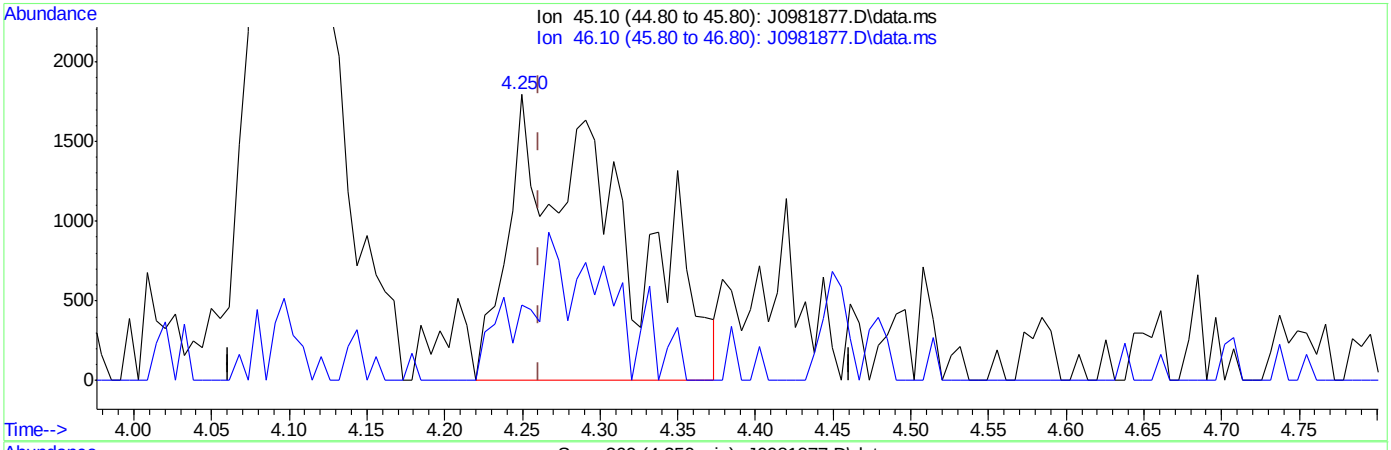
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	26.21
0.00	0.00	0.00
0.00	0.00	0.00

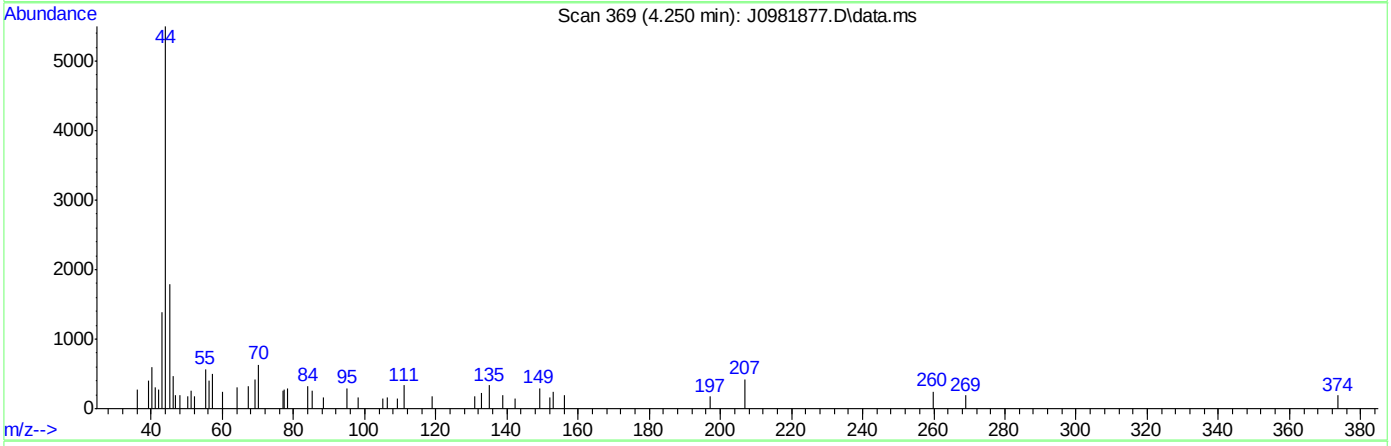
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:43:49 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(107) Ethanol

4.250min (-0.011) 86.95ug/L m

response 8598

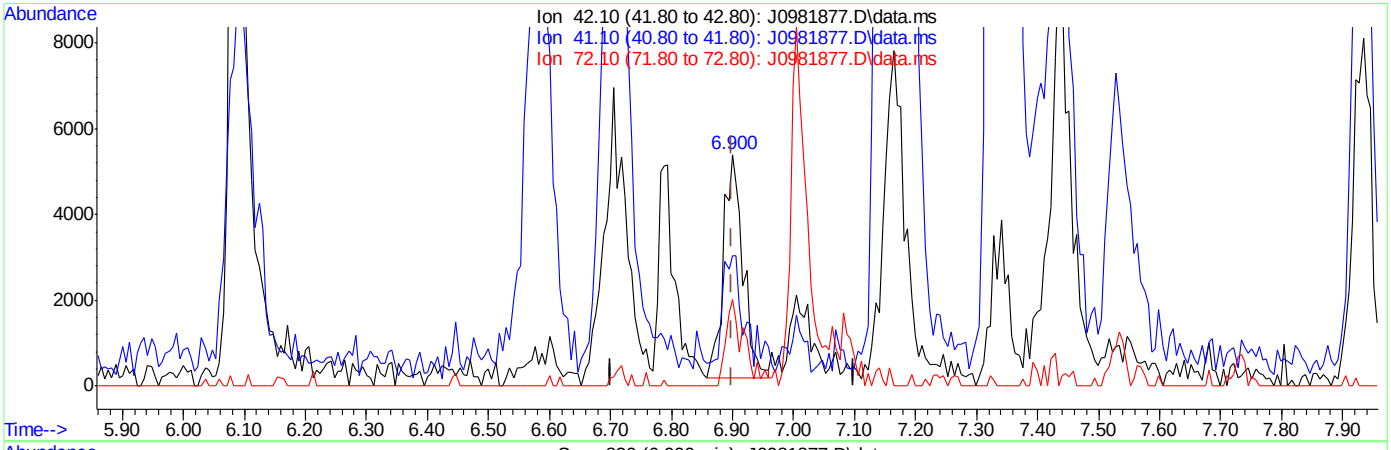
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	26.21
0.00	0.00	0.00
0.00	0.00	0.00

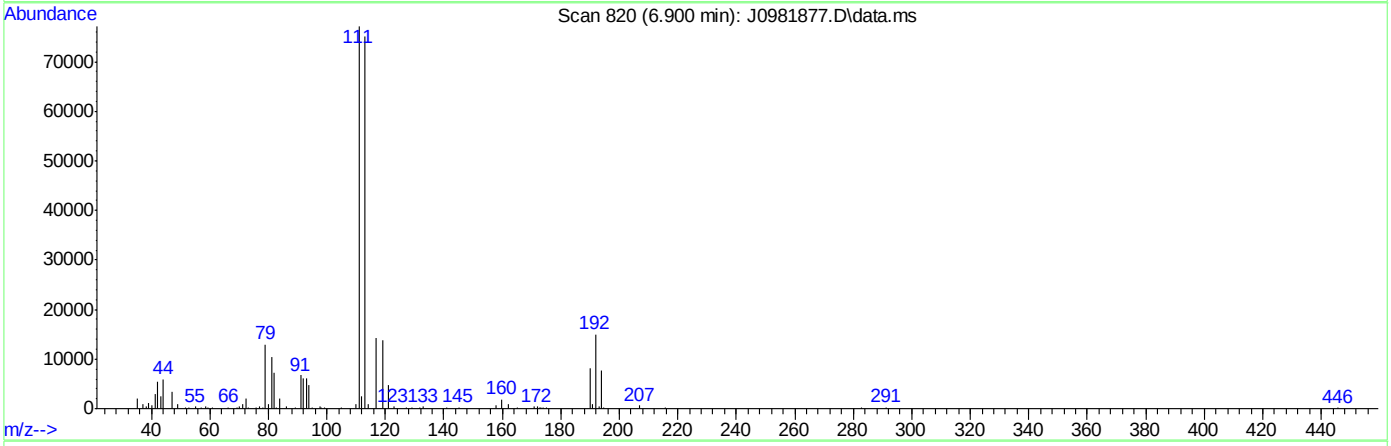
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:47:36 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(35) Tetrahydrofuran

6.900min (-0.000) 5.29ug/L

response 11455

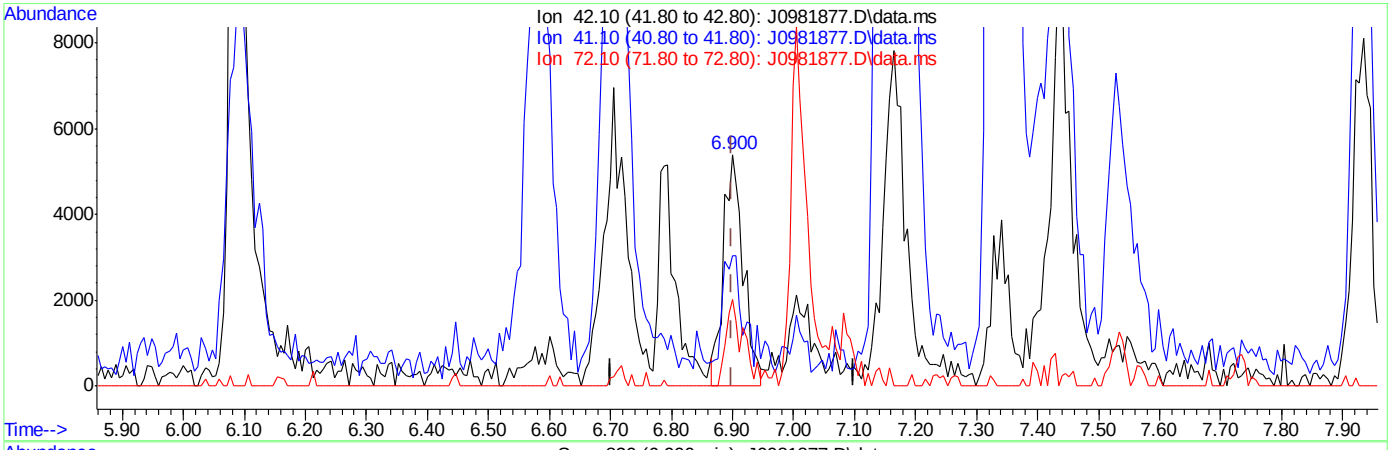
Ion	Exp%	Act%
42.10	100	100
41.10	51.70	48.60
72.10	37.20	38.84
0.00	0.00	0.00

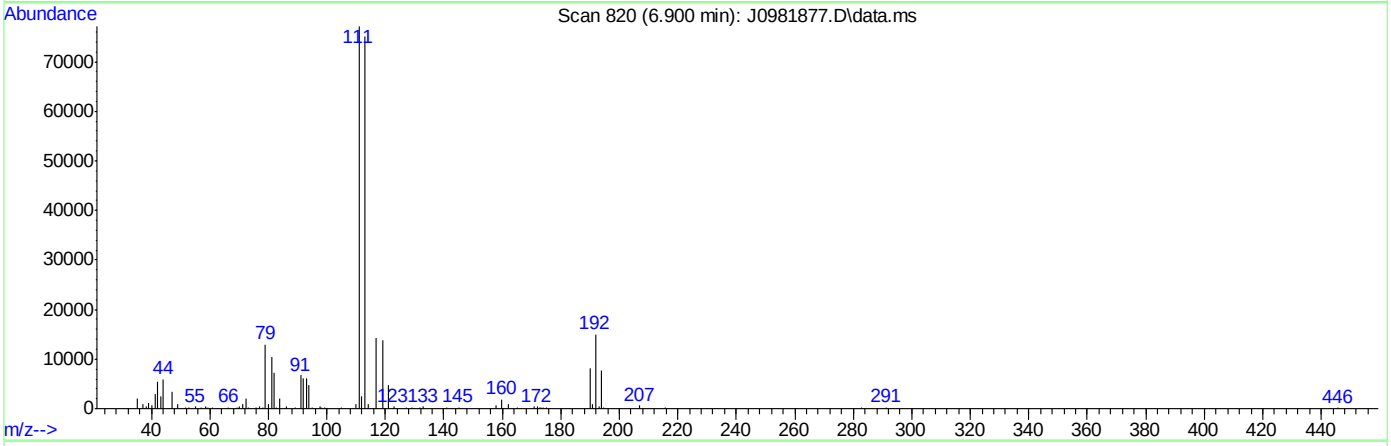
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:47:36 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981877.D\data.ms

(35) Tetrahydrofuran

6.900min (-0.000) 5.62ug/L m

response 12167

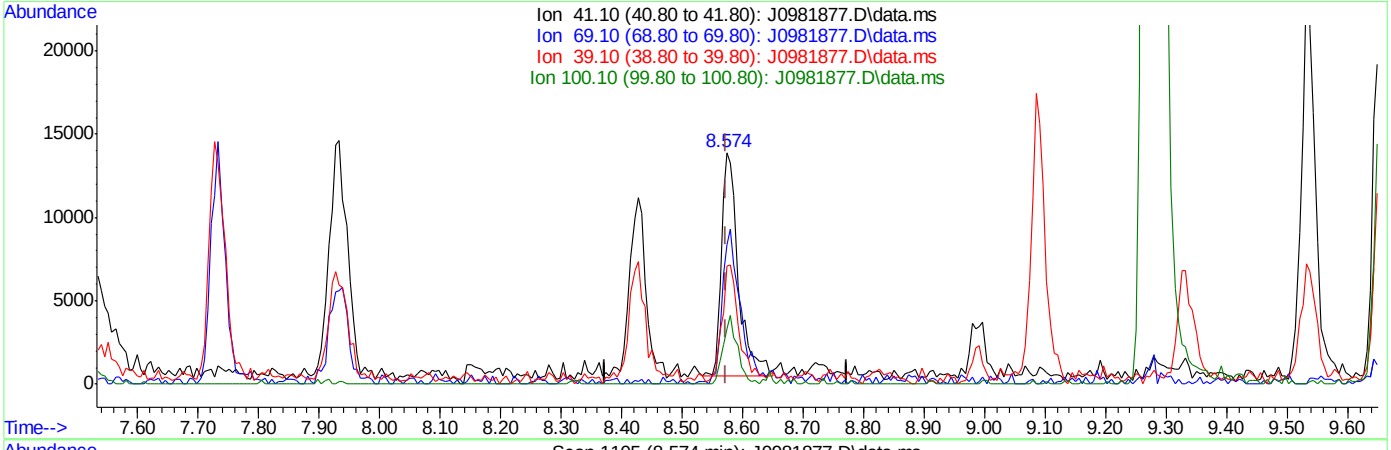
Ion	Exp%	Act%
42.10	100	100
41.10	51.70	56.47
72.10	37.20	37.40
0.00	0.00	0.00

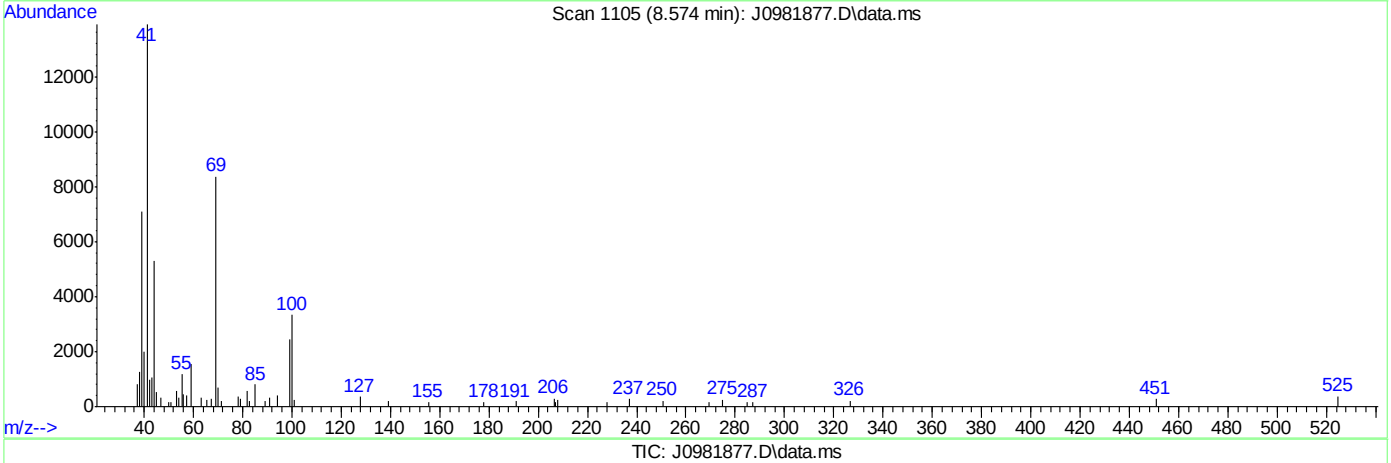
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:47:36 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(53) Methyl methacrylate

8.574min (+0.000) 4.19ug/L

response 26117

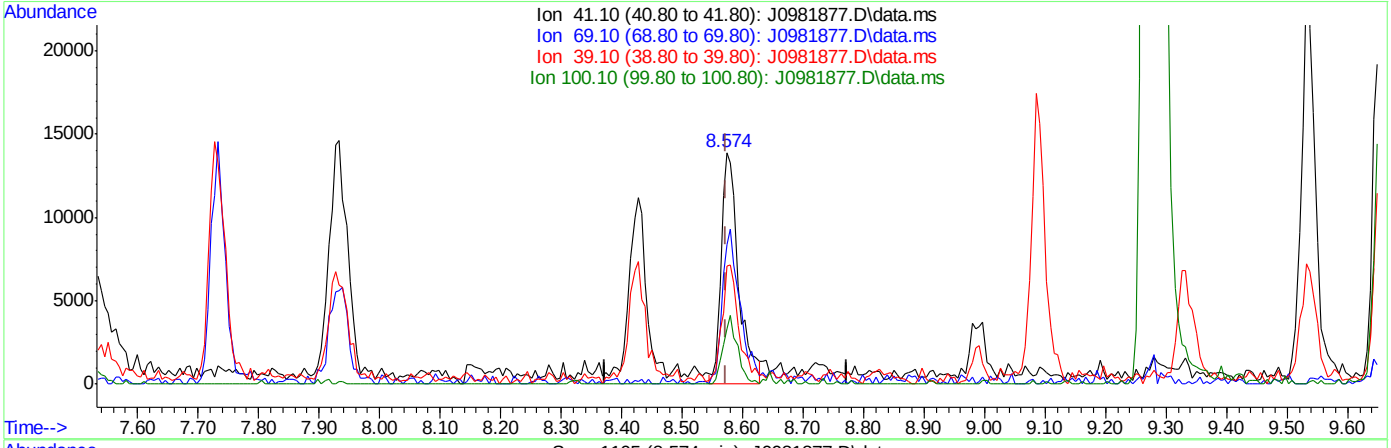
Ion	Exp%	Act%
41.10	100	100
69.10	57.20	61.07
39.10	51.30	49.27
100.10	22.30	24.86

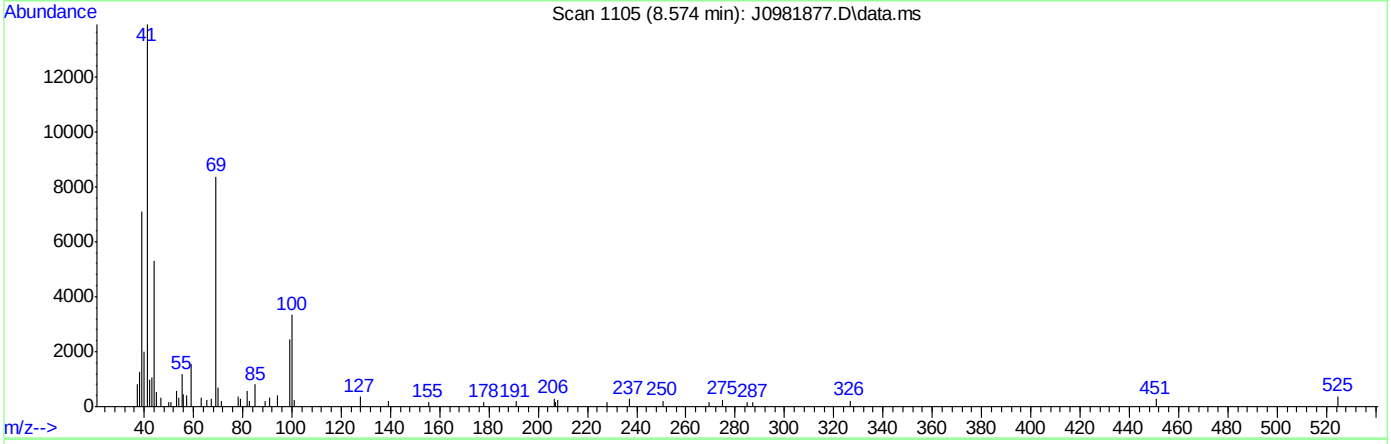
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981877.D
Acq On : 30 Dec 2016 1:13 pm
Operator : melissam
Sample : ic5529-2 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 30 15:47:36 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(53) Methyl methacrylate

8.574min (+0.000) 4.41ug/L m

response 27492

Ion	Exp%	Act%
41.10	100	100
69.10	57.20	60.23
39.10	51.30	50.93
100.10	22.30	24.01

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:48:02 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	658942	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	462577	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	255817	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	80659	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	156618	41.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 83.02%			
46) 1,2-Dichloroethane-d4	7.452	65	206938	39.28	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 78.56%#			
57) Toluene-d8	9.279	98	626462	54.63	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 109.26%			
79) 4-Bromofluorobenzene	12.035	95	245710	58.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 116.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.663	85	76162	9.80	ug/L	98
3) Chloromethane	2.863	50	113335	8.53	ug/L	93
4) Vinyl Chloride	3.010	62	63847	5.54	ug/L	89
5) 1,3-Butadiene	3.004	54	40330	4.32	ug/L	91
6) Bromomethane	3.433	94	38888	5.67	ug/L	86
7) Chloroethane	3.592	64	31106	5.75	ug/L	85
8) Trichlorofluoromethane	3.821	101	85856m	4.86	ug/L	
9) Ethyl Ether	4.097	59	60638	8.65	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.332	67	70247	7.72	ug/L	96
11) 1,1-Dichloroethene	4.379	61	99049	8.45	ug/L	90
12) Freon 113	4.432	101	60188	7.24	ug/L	89
13) Carbon Disulfide	4.455	76	212395	8.69	ug/L	98
14) Iodomethane	4.561	142	103032	8.13	ug/L	95
15) Allyl chloride	4.896	41	112143	7.99	ug/L	88
16) Methylene Chloride	5.019	49	103844	7.30	ug/L	98
17) Acetone	5.049	58	27001	42.32	ug/L	97
18) Methyl acetate	5.166	74	43247	43.30	ug/L #	91
19) trans-1,2-Dichloroethene	5.207	61	96374	9.16	ug/L	93
20) Hexane	5.272	56	65275	7.42	ug/L	91
21) Methyl Tert Butyl Ether	5.301	73	187436	9.61	ug/L	95
22) Acetonitrile	5.572	40	42538	77.20	ug/L	89
23) Di-isopropyl ether	5.683	45	255142	8.49	ug/L	96
24) Chloroprene	5.842	53	102575	7.67	ug/L	88
25) 1,1-Dichloroethane	5.871	63	114127	7.47	ug/L	99
26) Acrylonitrile	5.901	53	118388	39.25	ug/L	92
27) ETBE	6.089	59	242188	9.05	ug/L	95
28) Vinyl acetate	6.083	43	777012	38.75	ug/L	91
29) cis-1,2-Dichloroethene	6.447	96	71485	10.44	ug/L	83
30) 2,2-Dichloropropane	6.576	77	98013	8.97	ug/L	96
31) Bromochloromethane	6.665	128	32478	8.59	ug/L	95
32) Cyclohexane	6.706	56	133421	8.81	ug/L	93
33) Chloroform	6.712	83	119859	8.43	ug/L	93
34) Ethyl acetate	6.788	43	294156	36.95	ug/L	100

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:48:02 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	19866	9.09 ug/L	89
37) Carbon Tetrachloride	6.900	117	82912	7.45 ug/L	91
38) 1,1,1-Trichloroethane	6.964	97	102104	8.51 ug/L	94
39) 2-Butanone	7.005	43	132798	42.66 ug/L	100
40) 1,1-Dichloropropene	7.082	75	81890	8.93 ug/L	91
41) tert-Butyl Formate	7.158	59	673605	106.25 ug/L #	77
42) Propionitrile	7.311	54	88798	82.29 ug/L	87
43) Methacrylonitrile	7.334	41	403337	78.82 ug/L	99
44) Benzene	7.334	78	221037	9.29 ug/L	87
45) TAME	7.405	73	196492	9.49 ug/L	90
47) 1,2-Dichloroethane	7.522	62	88374	7.66 ug/L	98
48) Trichloroethene	7.916	95	64154	9.08 ug/L	95
49) Methylcyclohexane	7.928	83	118336	8.83 ug/L	97
50) Dibromomethane	8.339	93	39528	9.06 ug/L	97
51) 1,2-Dichloropropane	8.421	63	66610	9.15 ug/L	89
52) Bromodichloromethane	8.474	83	82411	8.56 ug/L	92
53) Methyl methacrylate	8.574	41	57959	9.18 ug/L	92
54) 2-Chloroethyl vinyl ether	8.985	63	198130	41.21 ug/L	98
55) cis-1,3-Dichloropropene	9.091	75	103129	8.54 ug/L	89
58) Toluene	9.332	91	243196	10.84 ug/L	98
59) 2-Nitropropane	9.538	41	76279	42.23 ug/L	93
60) 4-Methyl-2-pentanone	9.649	43	313590	43.97 ug/L	94
61) trans-1,3-Dichloropropene	9.714	75	87408	9.76 ug/L	93
62) Tetrachloroethene	9.737	166	66968	9.52 ug/L	92
63) Ethyl methacrylate	9.820	69	79380	11.15 ug/L	92
64) 1,1,2-Trichloroethane	9.878	83	42871	8.99 ug/L	98
65) Dibromochloromethane	10.078	129	57539	9.80 ug/L	98
66) 1,3-Dichloropropane	10.160	76	94350	9.64 ug/L	92
67) 1,2-Dibromoethane	10.343	107	55656	10.38 ug/L	88
68) 2-hexanone	10.472	43	216960	42.49 ug/L	93
69) 1-Chlorohexane	10.777	91	90001	10.71 ug/L	89
70) Ethylbenzene	10.842	91	269245	10.44 ug/L	96
71) Chlorobenzene	10.842	112	168232	9.78 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.889	131	57187	8.42 ug/L	95
73) m,p-Xylene	10.977	91	452440	19.45 ug/L	98
74) o-Xylene	11.418	91	252067	10.56 ug/L	100
75) Styrene	11.465	104	166452	9.97 ug/L	97
76) Bromoform	11.524	173	37965	9.90 ug/L	96
77) Isopropylbenzene	11.723	105	295962	10.14 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.070	53	20101	9.18 ug/L #	79
81) n-Propylbenzene	12.141	91	355302	9.46 ug/L	99
82) Bromobenzene	12.164	156	67092	9.74 ug/L	93
83) 1,1,2,2-Tetrachloroethane	12.199	83	71560	9.98 ug/L	92
84) 1,3,5-Trimethylbenzene	12.323	105	239191	9.81 ug/L	97
85) 2-Chlorotoluene	12.334	91	234190	9.15 ug/L	96
86) trans-1,4-Dichloro-2-B...	12.381	53	21633	8.98 ug/L #	73
87) 1,2,3-Trichloropropane	12.358	110	18583	8.38 ug/L	89
88) Cyclohexanone	12.428	55	16010	58.43 ug/L	92
89) 4-Chlorotoluene	12.499	91	229528	9.65 ug/L	99
90) a-Methyl Styrene	12.587	118	136298	9.93 ug/L	96

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:48:02 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.663	91	148118	9.01	ug/L		97
92)	1,2,4-Trimethylbenzene	12.734	105	234225	9.31	ug/L		99
93)	Pentachloroethane	12.716	167	43300	9.20	ug/L		90
94)	sec-Butylbenzene	12.846	105	313741	9.14	ug/L		100
95)	4-Isopropyltoluene	12.981	119	246918	9.63	ug/L		99
96)	1,3-Dichlorobenzene	13.116	146	141483	9.81	ug/L		98
97)	1,4-Dichlorobenzene	13.198	146	150885	9.73	ug/L		95
98)	n-Butylbenzene	13.416	92	147873	9.66	ug/L		94
99)	Benzyl Chloride	13.427	126	30161	10.57	ug/L	#	87
100)	1,2-Dichlorobenzene	13.627	146	143155	9.92	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.367	75	13059	9.76	ug/L		89
102)	Hexachlorobutadiene	14.908	225	61435	11.58	ug/L		88
103)	1,2,4-Trichlorobenzene	14.955	180	102486	10.72	ug/L		96
104)	Naphthalene	15.237	128	195377	10.63	ug/L		99
105)	1,2,3-Trichlorobenzene	15.407	180	94744	10.29	ug/L		98
107)	Ethanol	4.261	45	16023m	172.95	ug/L		
108)	acrolein	4.731	56	61291	39.51	ug/L		81
109)	Tert Butyl Alcohol	5.354	59	70713	89.17	ug/L		93
110)	tert Amyl alcohol	7.546	59	52023	84.60	ug/L		85
111)	Isobutyl alcohol	7.434	42	42610	129.78	ug/L	#	83
112)	1,4-Dioxane	8.645	88	11432	156.07	ug/L		81
113)	3,3-Dimethyl-1-butanol	10.413	57	277836	375.55	ug/L		94

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

7.6.3

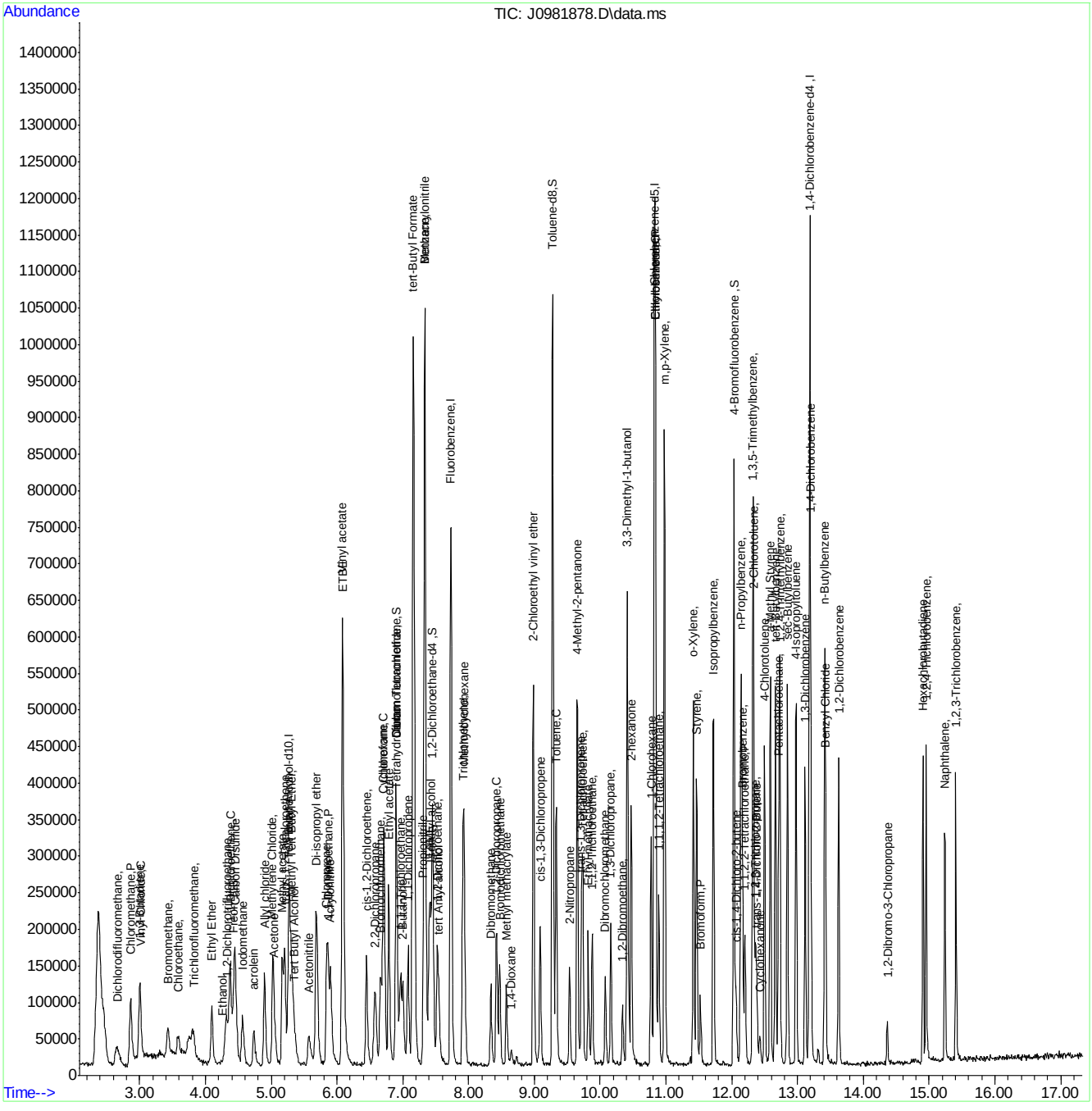
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:48:02 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



MSJ123016.M Tue Jan 03 10:01:31 2017 Page: 4

SGS ACCUTEST FA39907

Manual Integration Approval Summary

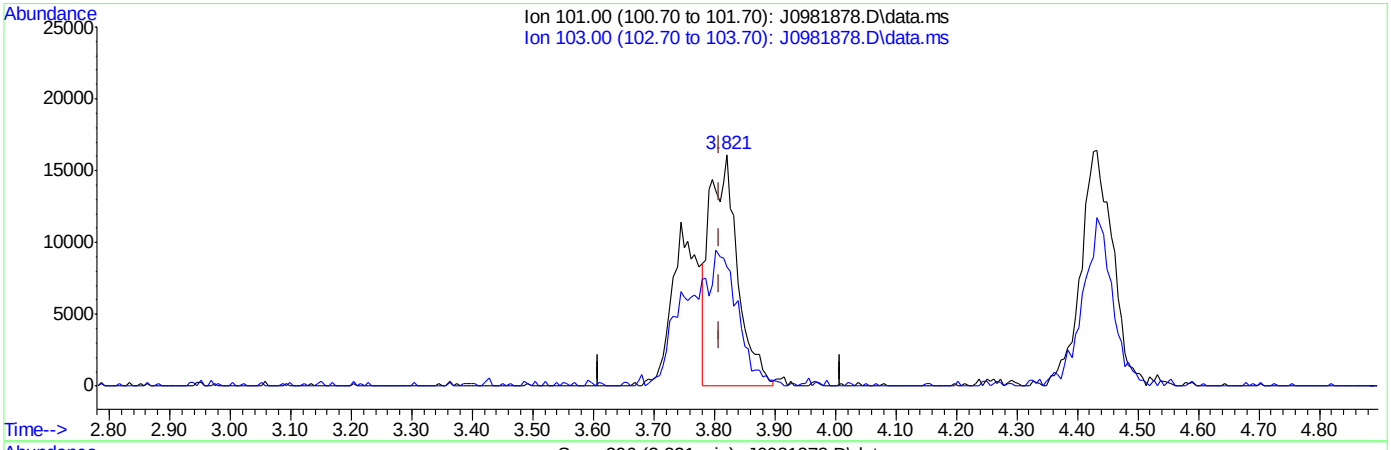
Sample Number:	VJ5529-IC5529	**Method:**	SW846 8260B
Lab FileID:	J0981878.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 13:37	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

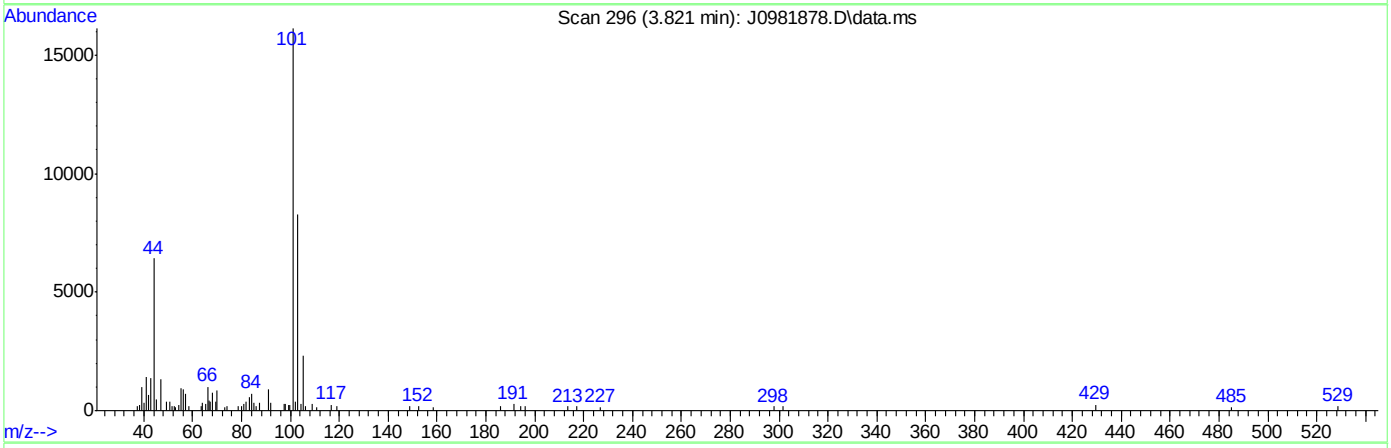
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.82	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:43:52 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981878.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.012) 2.92ug/L

response 51818

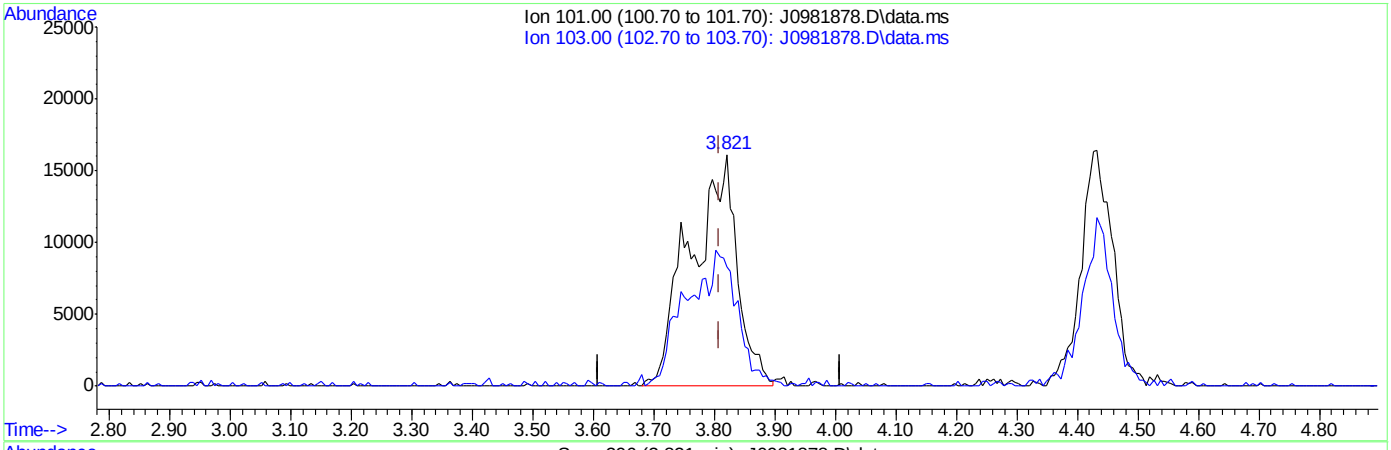
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	49.70
0.00	0.00	0.00
0.00	0.00	0.00

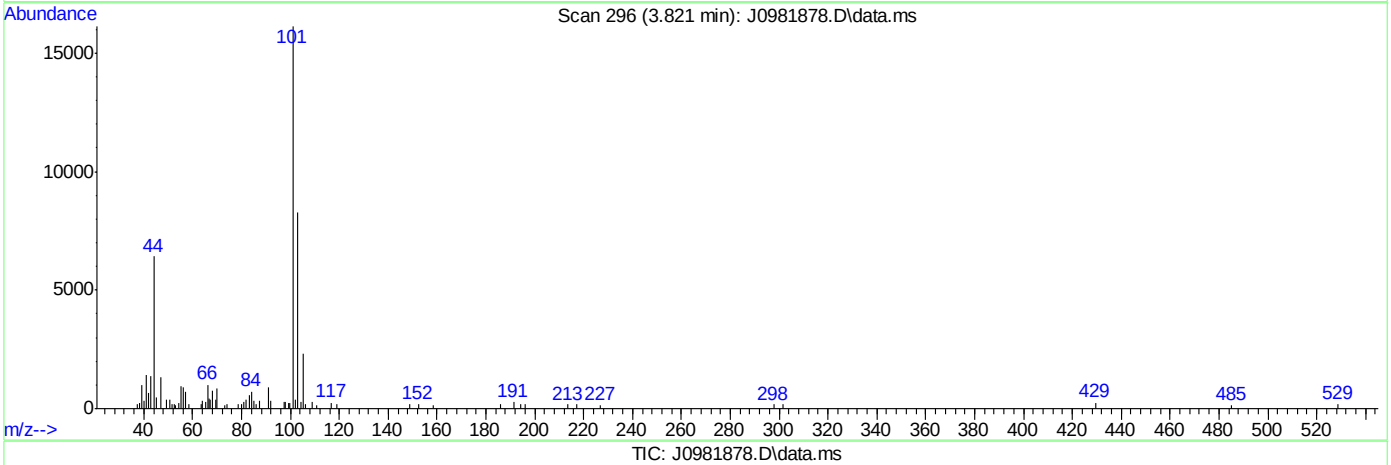
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:43:52 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981878.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.012) 4.86ug/L m

response 85856

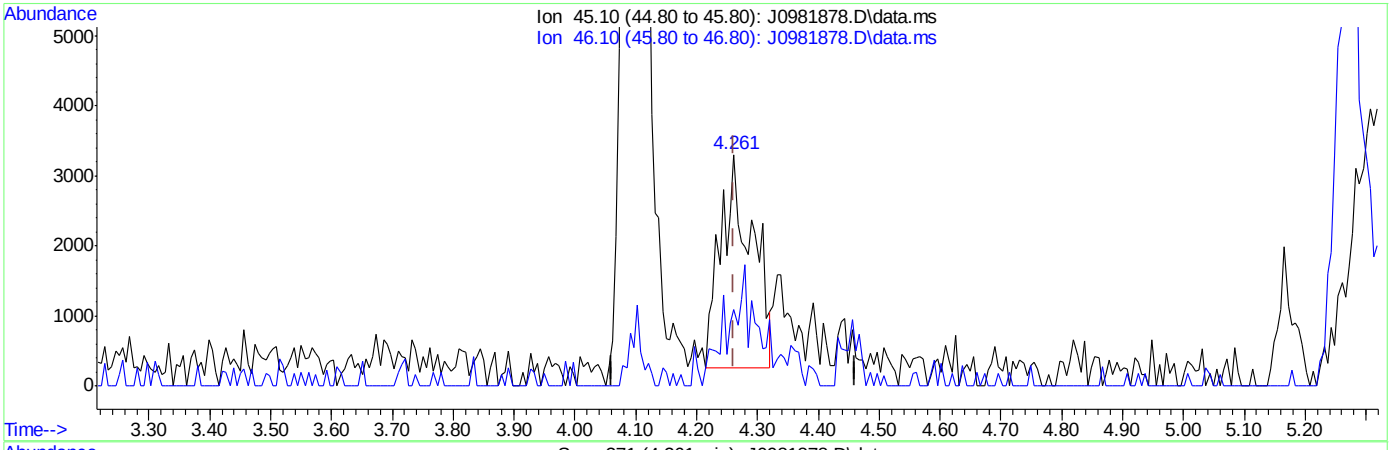
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	51.41
0.00	0.00	0.00
0.00	0.00	0.00

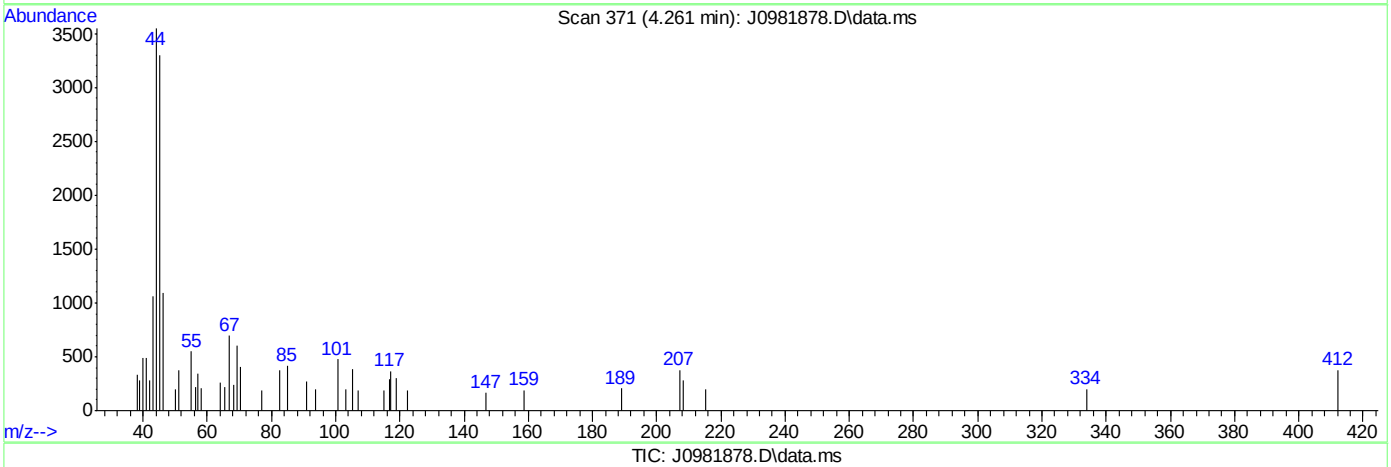
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:43:52 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981878.D\data.ms

(107) Ethanol

4.261min (+0.000) 115.67ug/L

response 10801

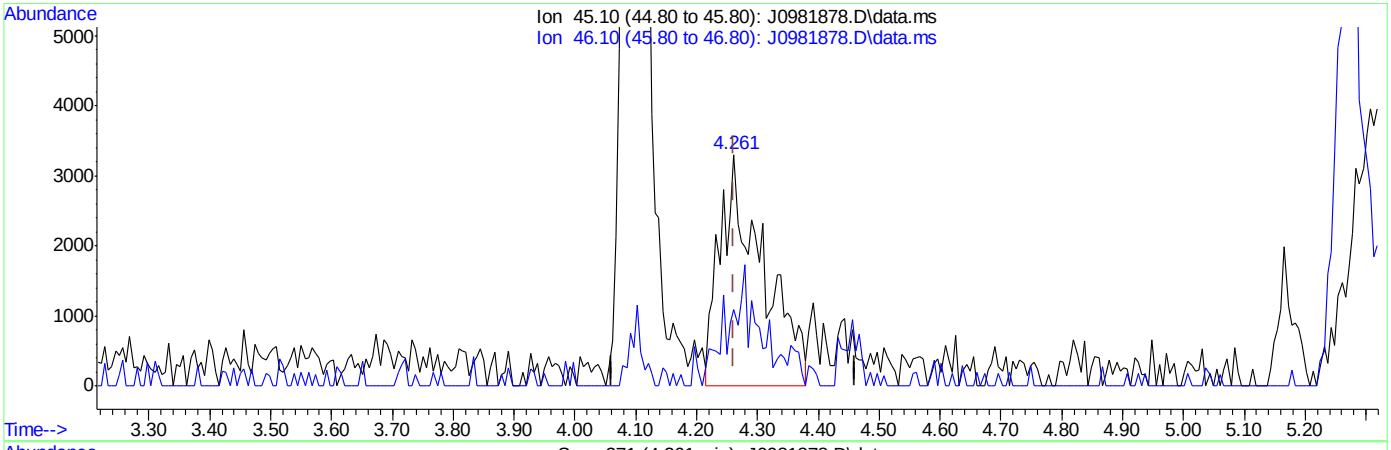
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	27.32
0.00	0.00	0.00
0.00	0.00	0.00

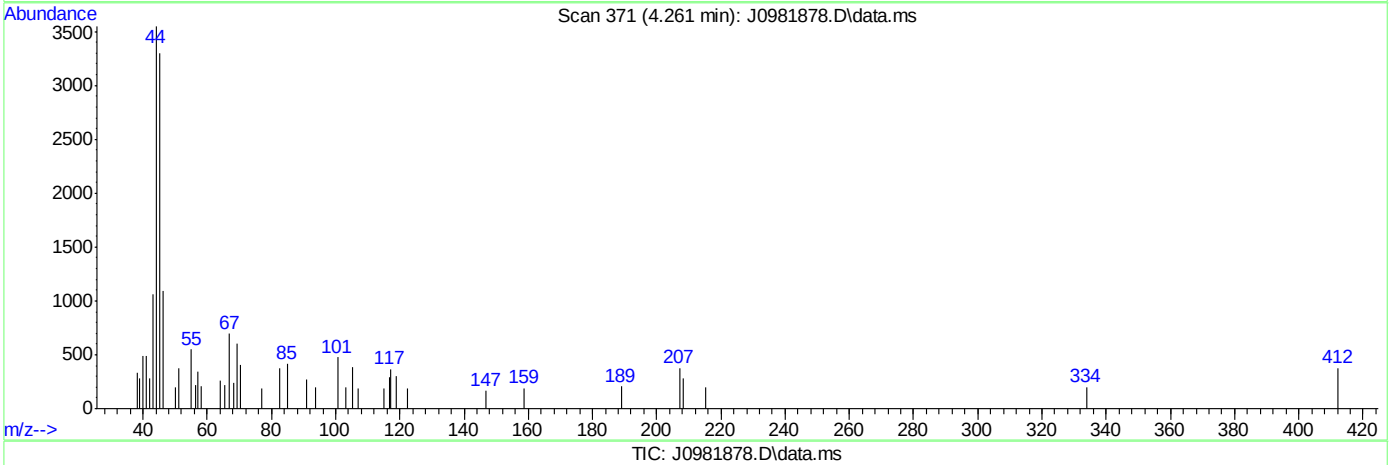
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981878.D
Acq On : 30 Dec 2016 1:37 pm
Operator : melissam
Sample : ic5529-3 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 30 15:43:52 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981878.D\data.ms

(107) Ethanol

4.261min (+0.000) 172.95ug/L m

response 16023

Ion	Exp%	Act%
45.10	100	100
46.10	42.10	33.21
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:48:26 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	645793	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	469637	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	254656	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	84908	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.899	113	154909	41.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 83.78%			
46) 1,2-Dichloroethane-d4	7.458	65	208403	40.37	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 80.74%			
57) Toluene-d8	9.279	98	615408	52.86	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.72%			
79) 4-Bromofluorobenzene	12.035	95	255562	60.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 121.22%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.663	85	157914	20.74	ug/L	97
3) Chloromethane	2.875	50	236994	18.54	ug/L	90
4) Vinyl Chloride	3.016	62	148613	13.41	ug/L	93
5) 1,3-Butadiene	3.010	54	85186	9.41	ug/L	89
6) Bromomethane	3.445	94	80964	12.19	ug/L	91
7) Chloroethane	3.592	64	61952	11.86	ug/L	84
8) Trichlorofluoromethane	3.809	101	180227m	10.50	ug/L	
9) Ethyl Ether	4.097	59	132411	19.26	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.326	67	158247	17.75	ug/L	96
11) 1,1-Dichloroethene	4.379	61	225058	19.58	ug/L	96
12) Freon 113	4.438	101	130895	16.19	ug/L	96
13) Carbon Disulfide	4.455	76	473081	19.75	ug/L	94
14) Iodomethane	4.567	142	241368	19.44	ug/L	99
15) Allyl chloride	4.902	41	255963	18.77	ug/L	88
16) Methylene Chloride	5.025	49	238364	17.48	ug/L	93
17) Acetone	5.049	58	62962	100.68	ug/L	90
18) Methyl acetate	5.166	74	101388	103.58	ug/L	98
19) trans-1,2-Dichloroethene	5.207	61	219547	21.29	ug/L	91
20) Hexane	5.272	56	139109	16.39	ug/L	93
21) Methyl Tert Butyl Ether	5.313	73	446604	23.37	ug/L	92
22) Acetonitrile	5.572	40	99363	186.26	ug/L #	86
23) Di-isopropyl ether	5.695	45	595979	20.45	ug/L	99
24) Chloroprene	5.848	53	234530	17.95	ug/L	93
25) 1,1-Dichloroethane	5.871	63	263730	18.01	ug/L	95
26) Acrylonitrile	5.901	53	289937	99.97	ug/L	96
27) ETBE	6.095	59	547443	21.23	ug/L	99
28) Vinyl acetate	6.083	43	1848452	97.89	ug/L	96
29) cis-1,2-Dichloroethene	6.453	96	154165	22.98	ug/L	92
30) 2,2-Dichloropropane	6.576	77	225595	21.06	ug/L	96
31) Bromochloromethane	6.664	128	69876	18.85	ug/L	90
32) Cyclohexane	6.706	56	281260	19.19	ug/L	99
33) Chloroform	6.711	83	259881	18.65	ug/L	95
34) Ethyl acetate	6.782	43	725124	95.10	ug/L	98

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:48:26 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	43148	20.27 ug/L	88
37) Carbon Tetrachloride	6.905	117	181435m	16.63 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	232166	19.74 ug/L	96
39) 2-Butanone	6.999	43	322447	105.69 ug/L	96
40) 1,1-Dichloropropene	7.082	75	188362	19.99 ug/L	85
41) tert-Butyl Formate	7.164	59	1637762	269.72 ug/L #	78
42) Propionitrile	7.311	54	198200	190.40 ug/L	92
43) Methacrylonitrile	7.334	41	868286	178.91 ug/L	96
44) Benzene	7.334	78	507620	21.76 ug/L	89
45) TAME	7.411	73	459529	22.99 ug/L	93
47) 1,2-Dichloroethane	7.522	62	208665	18.45 ug/L	94
48) Trichloroethene	7.910	95	139646	20.17 ug/L	96
49) Methylcyclohexane	7.934	83	252087	19.38 ug/L	91
50) Dibromomethane	8.339	93	88478	20.70 ug/L	89
51) 1,2-Dichloropropane	8.427	63	155799	21.84 ug/L	92
52) Bromodichloromethane	8.474	83	193865	20.54 ug/L	97
53) Methyl methacrylate	8.568	41	140600	22.64 ug/L	92
54) 2-Chloroethyl vinyl ether	8.985	63	486488	105.08 ug/L	92
55) cis-1,3-Dichloropropene	9.085	75	240590	20.57 ug/L	94
58) Toluene	9.332	91	555141	24.37 ug/L	96
59) 2-Nitropropane	9.532	41	178417	97.08 ug/L	95
60) 4-Methyl-2-pentanone	9.649	43	754353	106.14 ug/L	97
61) trans-1,3-Dichloropropene	9.714	75	212419	23.26 ug/L	94
62) Tetrachloroethene	9.737	166	149480	20.92 ug/L	95
63) Ethyl methacrylate	9.820	69	186404	25.18 ug/L	91
64) 1,1,2-Trichloroethane	9.878	83	106352	21.97 ug/L	95
65) Dibromochloromethane	10.078	129	137620	22.40 ug/L	97
66) 1,3-Dichloropropane	10.160	76	230152	23.14 ug/L	94
67) 1,2-Dibromoethane	10.337	107	131078	24.09 ug/L	99
68) 2-hexanone	10.466	43	519740	102.45 ug/L	97
69) 1-Chlorohexane	10.771	91	210851	24.52 ug/L	91
70) Ethylbenzene	10.842	91	636641	24.30 ug/L	95
71) Chlorobenzene	10.842	112	387073	22.17 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.895	131	141413	20.51 ug/L	96
73) m,p-Xylene	10.977	91	1026949	44.56 ug/L	99
74) o-Xylene	11.418	91	576163	23.75 ug/L	97
75) Styrene	11.465	104	414980	24.44 ug/L	94
76) Bromoform	11.524	173	97885	25.13 ug/L	94
77) Isopropylbenzene	11.723	105	664459	22.35 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.064	53	50094	23.05 ug/L	88
81) n-Propylbenzene	12.140	91	827854	22.91 ug/L	100
82) Bromobenzene	12.164	156	169621	24.74 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.199	83	175659	24.62 ug/L	92
84) 1,3,5-Trimethylbenzene	12.323	105	544177	22.73 ug/L	94
85) 2-Chlorotoluene	12.329	91	564319	22.77 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.381	53	53495	22.43 ug/L #	83
87) 1,2,3-Trichloropropane	12.358	110	46196	21.10 ug/L	92
88) Cyclohexanone	12.428	55	35075	133.69 ug/L	88
89) 4-Chlorotoluene	12.499	91	537417	23.23 ug/L	96
90) a-Methyl Styrene	12.587	118	329204	24.29 ug/L	95

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:48:26 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.663	91	336802	20.90	ug/L	98
92)	1,2,4-Trimethylbenzene	12.734	105	552289	22.44	ug/L	98
93)	Pentachloroethane	12.716	167	104166	21.84	ug/L	91
94)	sec-Butylbenzene	12.846	105	742125	22.19	ug/L	99
95)	4-Isopropyltoluene	12.981	119	589349	23.36	ug/L	98
96)	1,3-Dichlorobenzene	13.116	146	352632	24.57	ug/L	97
97)	1,4-Dichlorobenzene	13.198	146	355037	23.00	ug/L	92
98)	n-Butylbenzene	13.415	92	356860	23.66	ug/L	92
99)	Benzyl Chloride	13.427	126	77084	27.12	ug/L	97
100)	1,2-Dichlorobenzene	13.627	146	346877	24.14	ug/L	95
101)	1,2-Dibromo-3-Chloropr...	14.361	75	35451	25.86	ug/L	90
102)	Hexachlorobutadiene	14.908	225	145270	25.86	ug/L	92
103)	1,2,4-Trichlorobenzene	14.955	180	247437	25.24	ug/L	94
104)	Naphthalene	15.237	128	494303	26.59	ug/L	99
105)	1,2,3-Trichlorobenzene	15.407	180	232150	24.65	ug/L	96
107)	Ethanol	4.273	45	33346m	350.50	ug/L	
108)	acrolein	4.737	56	143240	89.27	ug/L	99
109)	Tert Butyl Alcohol	5.354	59	160677	195.76	ug/L	94
110)	tert Amyl alcohol	7.552	59	131125	205.99	ug/L	85
111)	Isobutyl alcohol	7.434	42	101216	301.18	ug/L #	82
112)	1,4-Dioxane	8.656	88	25813	341.56	ug/L	95
113)	3,3-Dimethyl-1-butanol	10.413	57	696442	923.14	ug/L	94

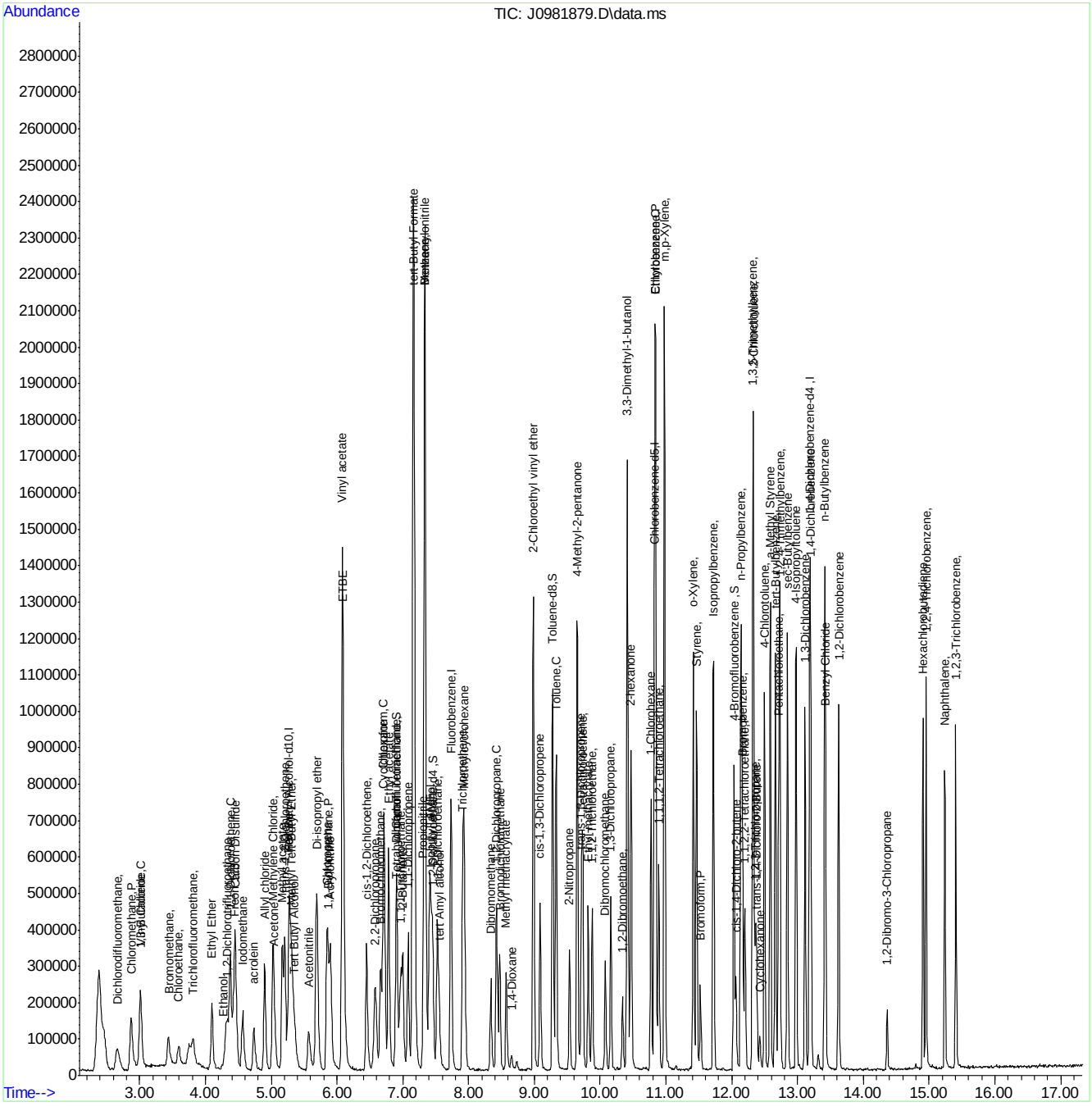
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:48:26 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

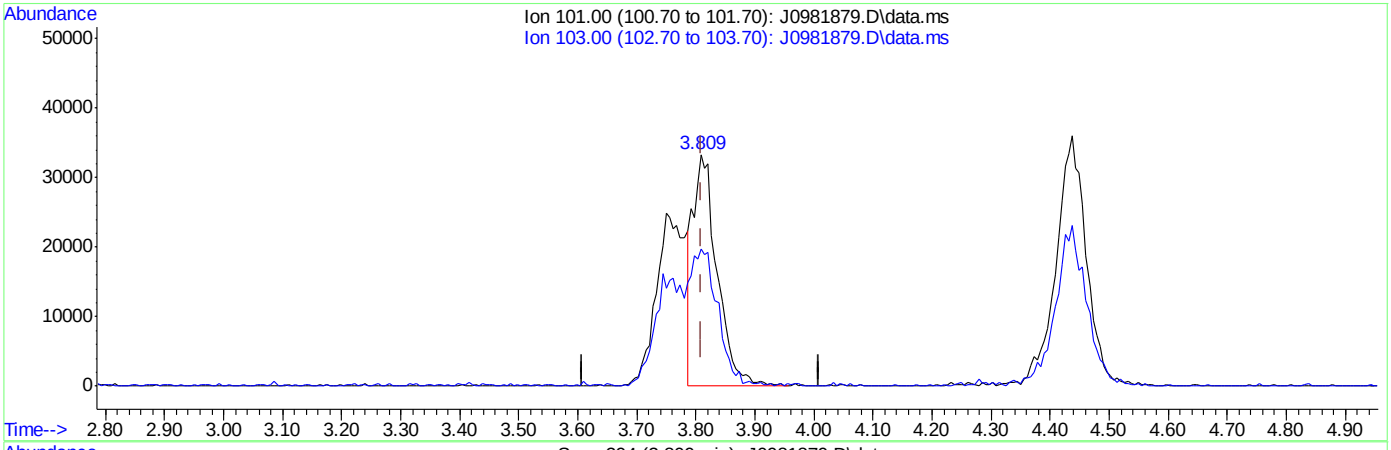
Sample Number:	VJ5529-IC5529	**Method:**	SW846 8260B
Lab FileID:	J0981879.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 14:00	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

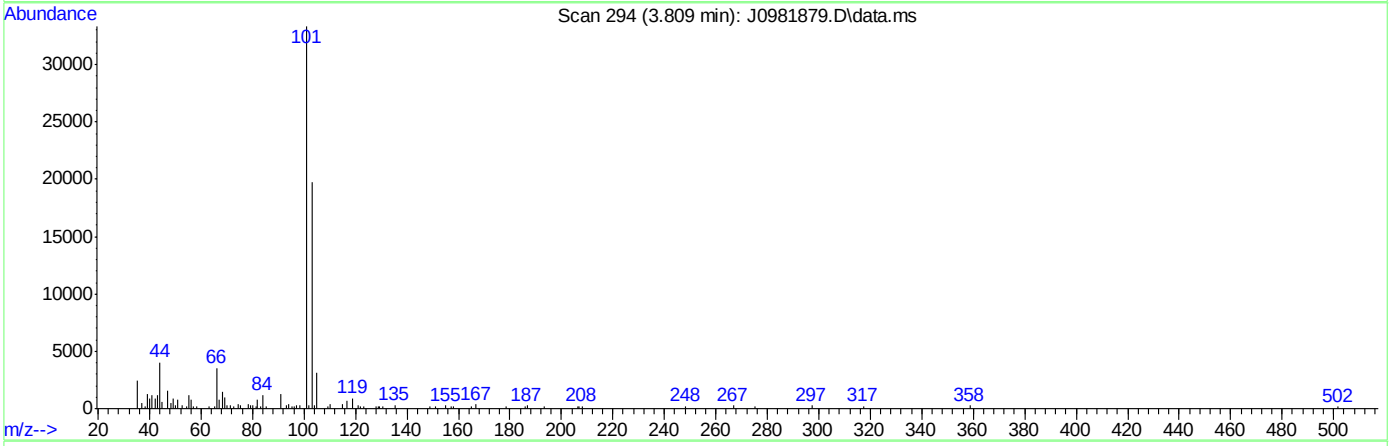
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (-0.000) 5.57ug/L

response 96376

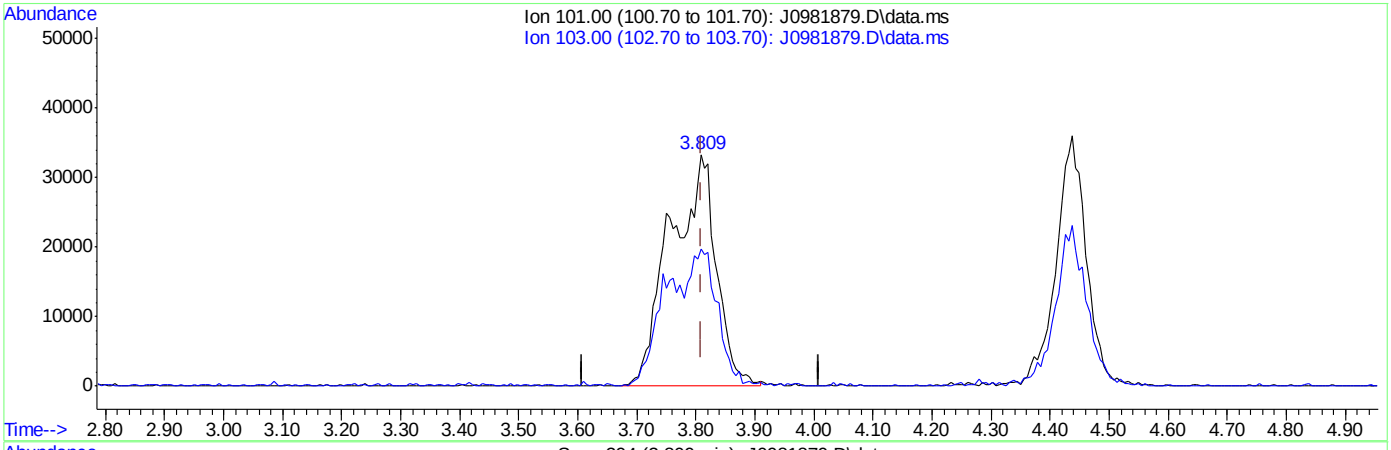
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	58.17
0.00	0.00	0.00
0.00	0.00	0.00

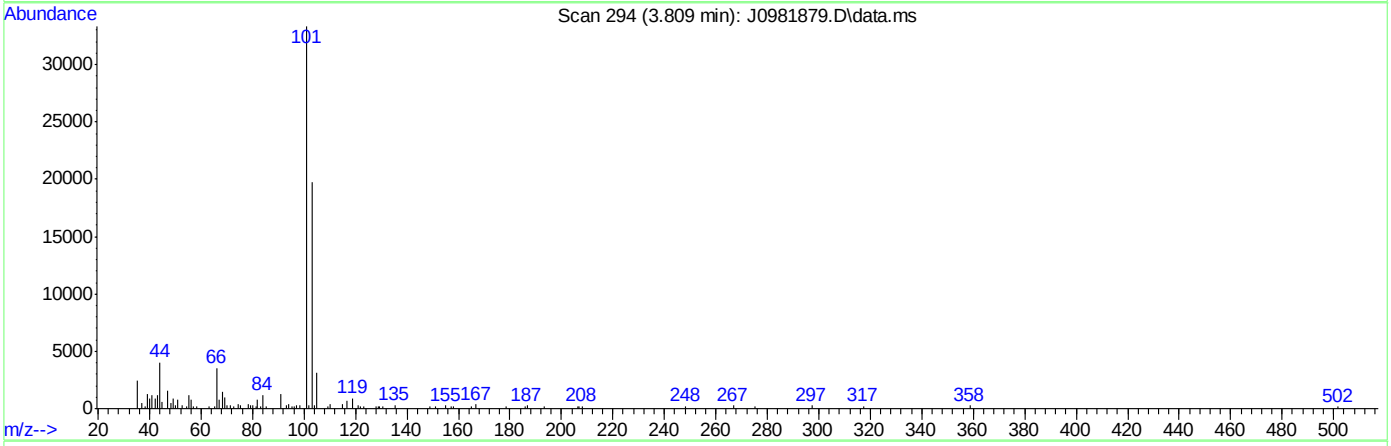
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (-0.000) 10.50ug/L m

response 180227

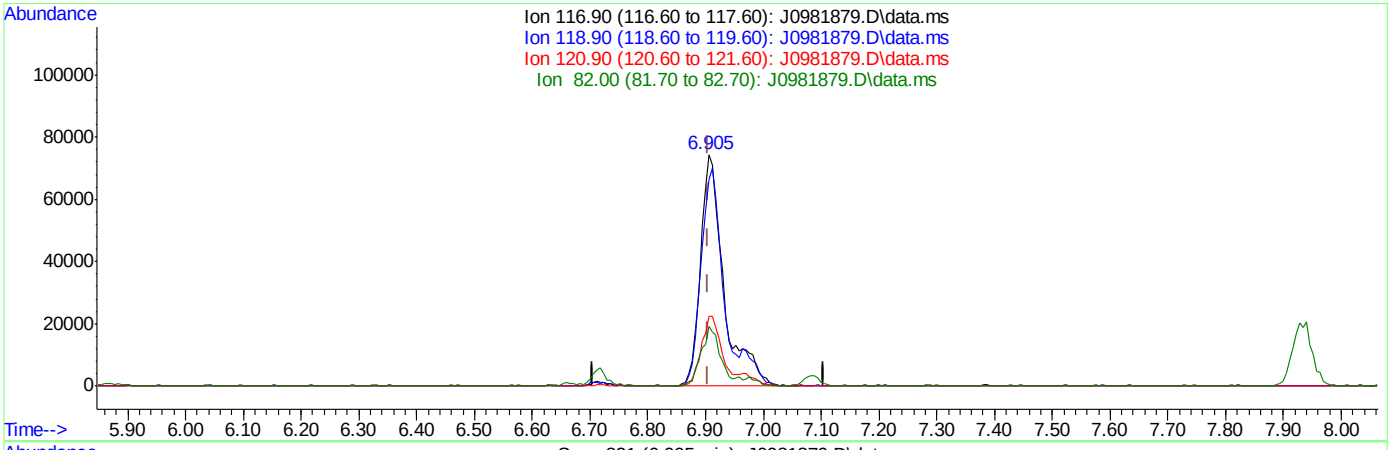
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	59.28
0.00	0.00	0.00
0.00	0.00	0.00

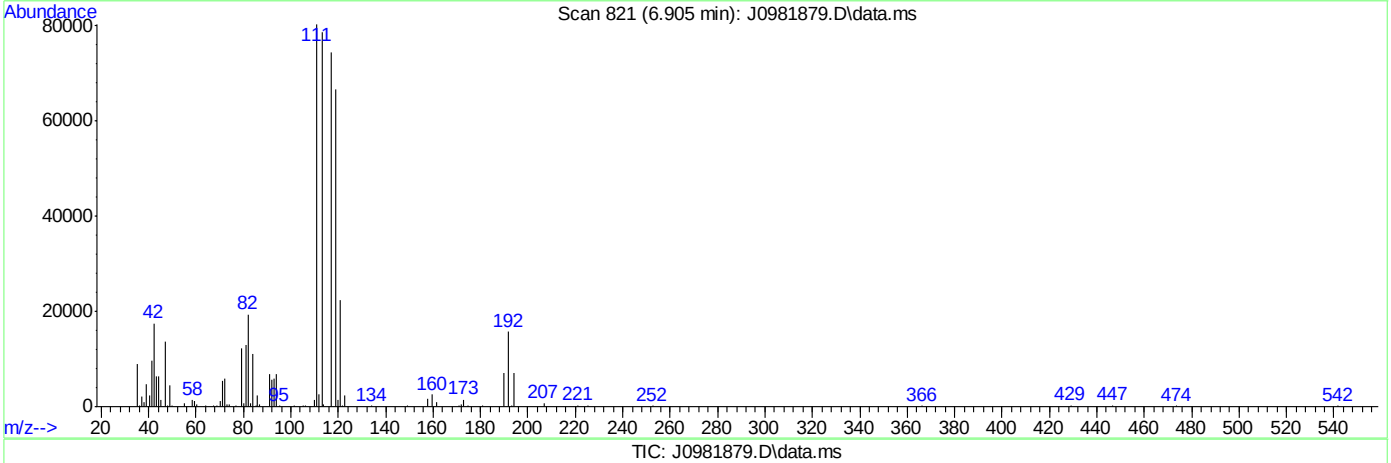
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 19.51ug/L

response 212839

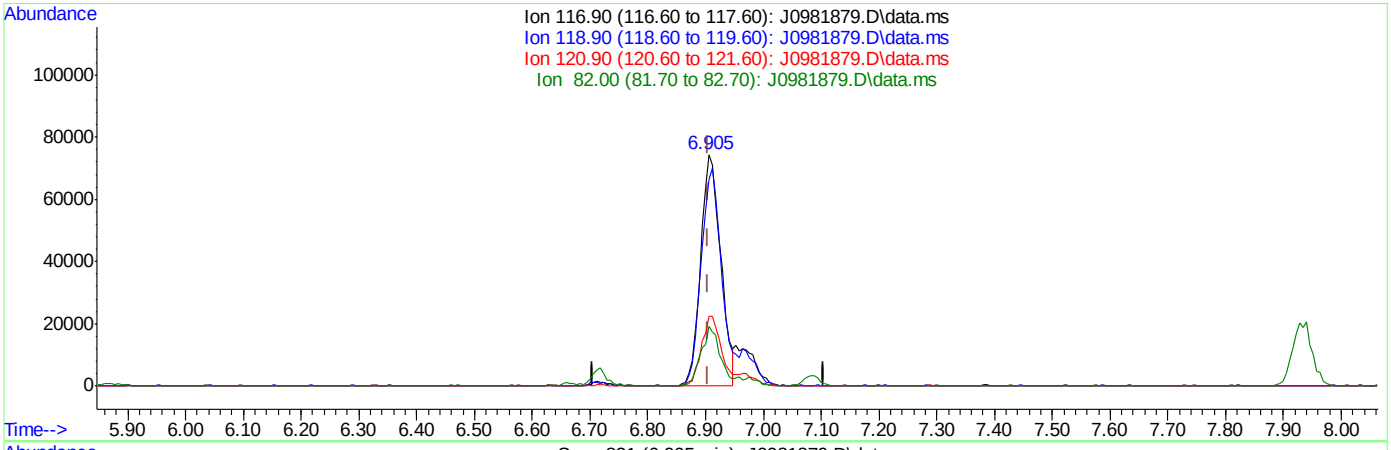
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	89.36
120.90	28.60	30.18
82.00	22.10	25.94

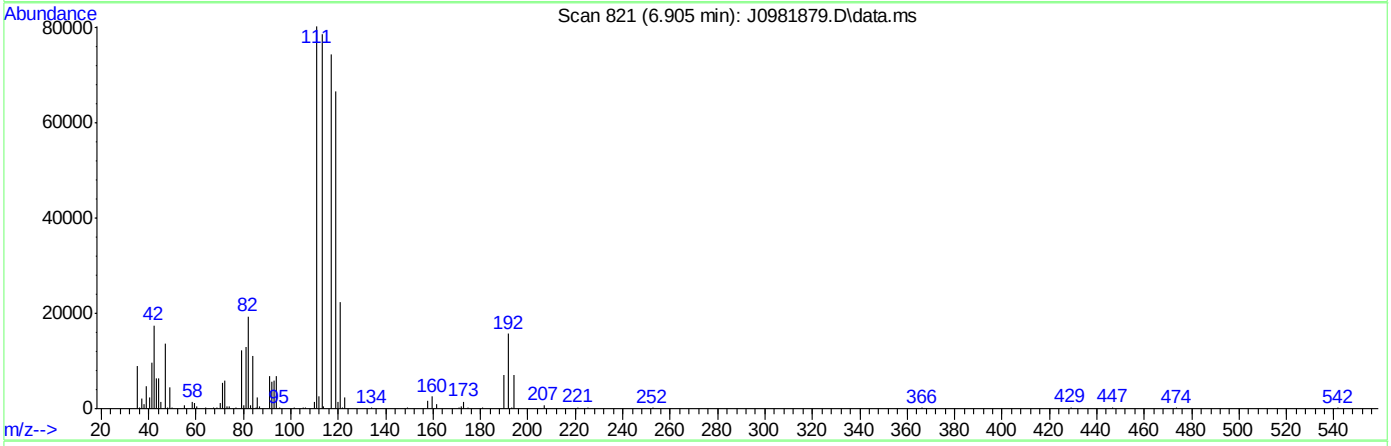
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 16.63ug/L m

response 181435

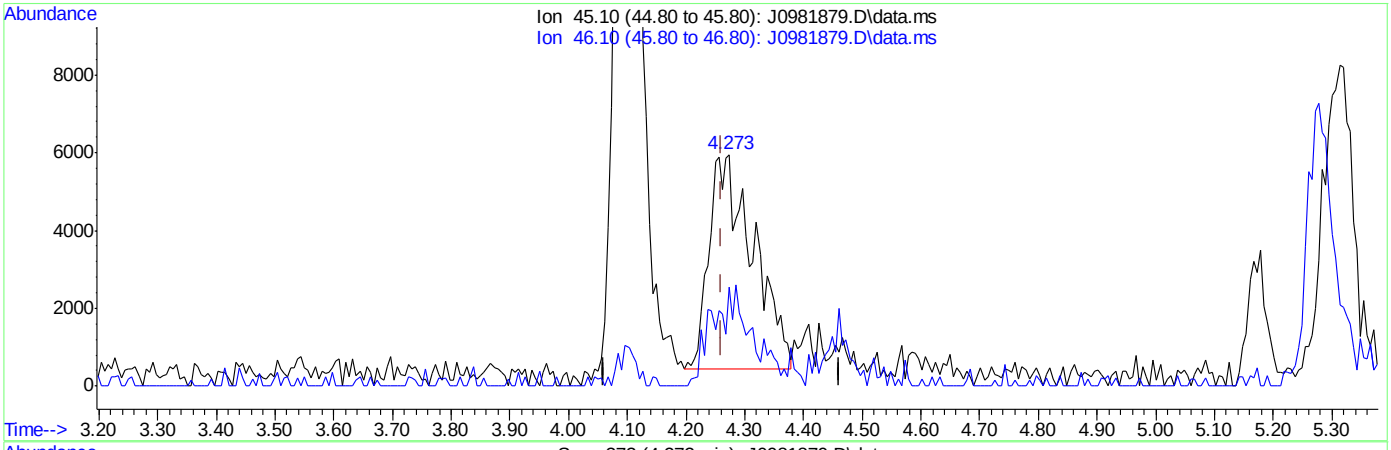
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	89.36
120.90	28.60	30.18
82.00	22.10	25.94

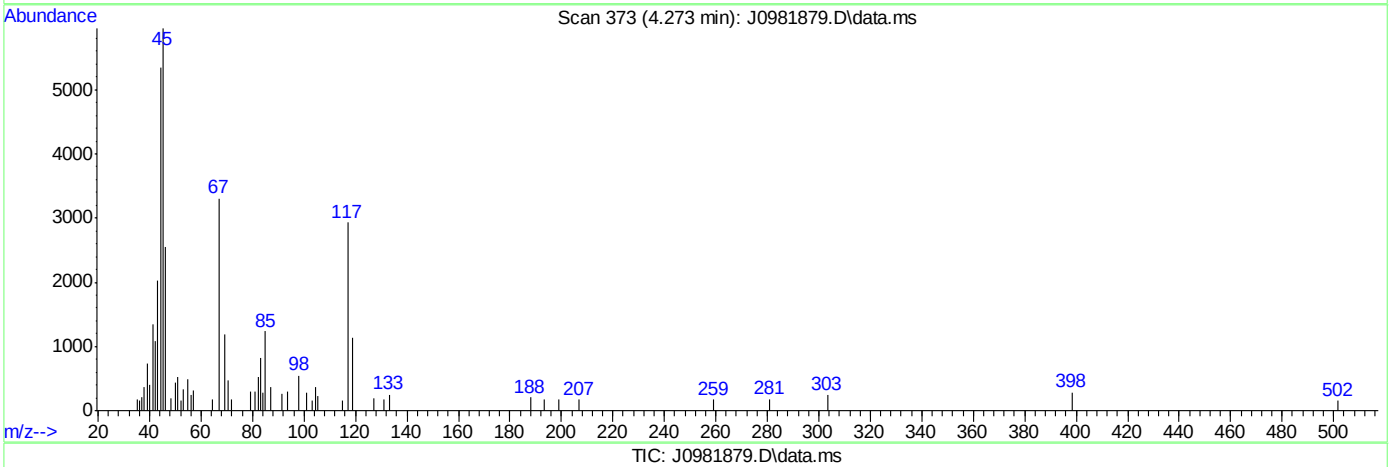
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(107) Ethanol

4.273min (+0.012) 298.69ug/L

response 28625

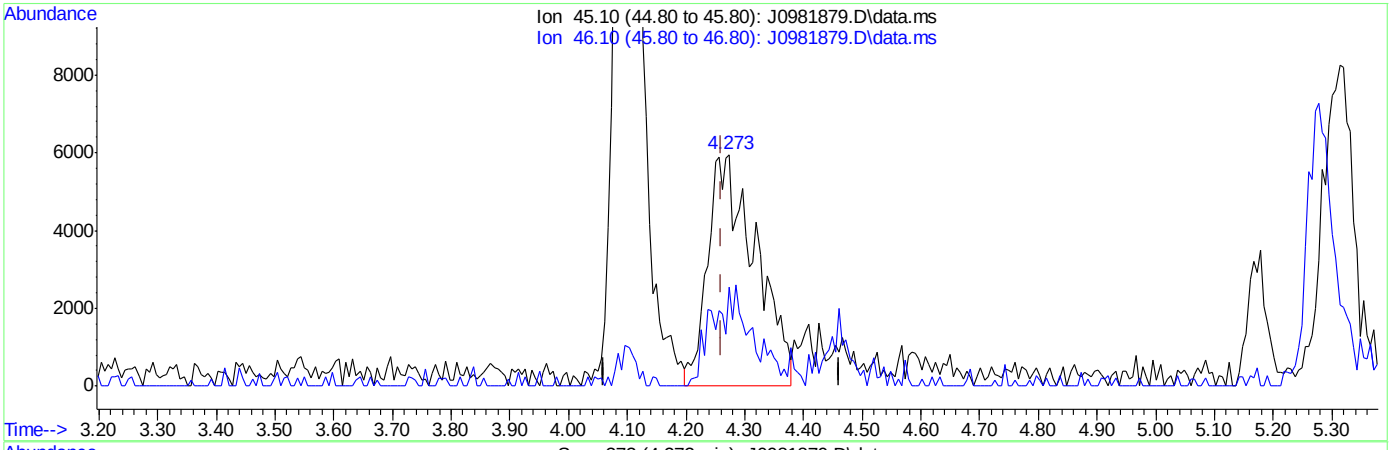
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	46.04
0.00	0.00	0.00
0.00	0.00	0.00

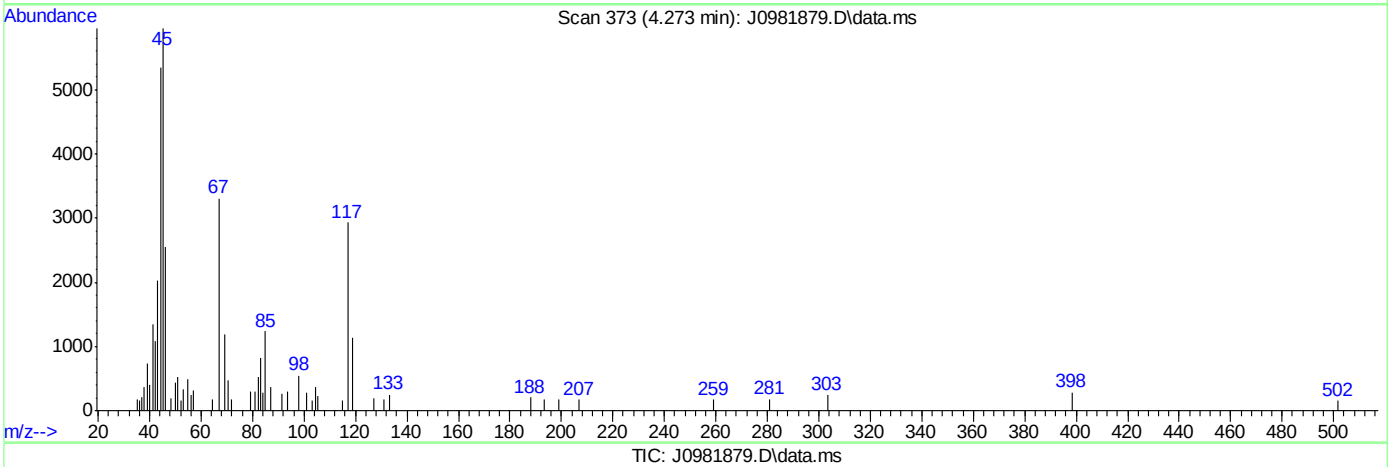
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981879.D
Acq On : 30 Dec 2016 2:00 pm
Operator : melissam
Sample : ic5529-4 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 30 15:43:56 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981879.D\data.ms

(107) Ethanol

4.273min (+0.012) 350.50ug/L m

response 33346

Ion	Exp%	Act%
45.10	100	100
46.10	42.10	42.70
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:49:13 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	659574	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	466497	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.180	152	258974	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	83169	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	151736	40.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 80.34%#			
46) 1,2-Dichloroethane-d4	7.458	65	211828	40.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 80.34%			
57) Toluene-d8	9.279	98	613475	53.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.10%			
79) 4-Bromofluorobenzene	12.035	95	256904	59.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 119.82%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	287932	37.02	ug/L	99
3) Chloromethane	2.869	50	408247	32.10	ug/L	91
4) Vinyl Chloride	3.022	62	242311	21.84	ug/L	95
5) 1,3-Butadiene	3.010	54	164041	18.10	ug/L	97
6) Bromomethane	3.439	94	132710	19.83	ug/L	87
7) Chloroethane	3.586	64	92344	17.58	ug/L	86
8) Trichlorofluoromethane	3.803	101	303147m	17.48	ug/L	
9) Ethyl Ether	4.097	59	227963	32.47	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.326	67	280701	30.82	ug/L	95
11) 1,1-Dichloroethene	4.373	61	397983	33.91	ug/L	92
12) Freon 113	4.432	101	243240	29.79	ug/L	97
13) Carbon Disulfide	4.449	76	832935	34.05	ug/L	96
14) Iodomethane	4.567	142	410779	32.39	ug/L	99
15) Allyl chloride	4.896	41	472786	34.41	ug/L	91
16) Methylene Chloride	5.025	49	410434	30.36	ug/L	93
17) Acetone	5.049	58	111273	174.22	ug/L #	80
18) Methyl acetate	5.172	74	176848	176.90	ug/L	99
19) trans-1,2-Dichloroethene	5.201	61	376962	35.79	ug/L	97
20) Hexane	5.266	56	244803	28.86	ug/L	95
21) Methyl Tert Butyl Ether	5.313	73	767287	39.32	ug/L	91
22) Acetonitrile	5.572	40	191751	358.94	ug/L	93
23) Di-isopropyl ether	5.695	45	1044229	35.58	ug/L	96
24) Chloroprene	5.848	53	446790	33.65	ug/L	92
25) 1,1-Dichloroethane	5.871	63	453588	31.16	ug/L	92
26) Acrylonitrile	5.901	53	478053	164.77	ug/L	97
27) ETBE	6.094	59	938508	36.39	ug/L	99
28) Vinyl acetate	6.083	43	2883889	155.74	ug/L	97
29) cis-1,2-Dichloroethene	6.447	96	269918	39.39	ug/L	94
30) 2,2-Dichloropropane	6.576	77	394917	36.09	ug/L	93
31) Bromochloromethane	6.664	128	126306	33.36	ug/L	96
32) Cyclohexane	6.711	56	523950	35.70	ug/L	95
33) Chloroform	6.711	83	452349	31.79	ug/L	99
34) Ethyl acetate	6.782	43	1192975	157.07	ug/L	97

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:49:13 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	75687	35.09 ug/L	97
37) Carbon Tetrachloride	6.905	117	331559m	29.75 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	409022	34.05 ug/L	97
39) 2-Butanone	6.999	43	554424	177.92 ug/L	100
40) 1,1-Dichloropropene	7.082	75	335818	34.59 ug/L	90
41) tert-Butyl Formate	7.164	59	2653310	438.36 ug/L #	78
42) Propionitrile	7.311	54	350076	336.54 ug/L	94
43) Methacrylonitrile	7.334	41	1487646	314.31 ug/L	97
44) Benzene	7.334	78	869021	36.47 ug/L	92
45) TAME	7.416	73	797111	39.77 ug/L	88
47) 1,2-Dichloroethane	7.522	62	359673	31.14 ug/L	96
48) Trichloroethene	7.910	95	257356	36.39 ug/L	93
49) Methylcyclohexane	7.933	83	463103	35.34 ug/L	97
50) Dibromomethane	8.333	93	152052	34.84 ug/L	95
51) 1,2-Dichloropropane	8.427	63	273488	37.54 ug/L	91
52) Bromodichloromethane	8.474	83	328326	34.06 ug/L	93
53) Methyl methacrylate	8.568	41	249890	39.21 ug/L	92
54) 2-Chloroethyl vinyl ether	8.985	63	801095	172.66 ug/L	96
55) cis-1,3-Dichloropropene	9.085	75	415929	35.34 ug/L	94
58) Toluene	9.332	91	955598	42.23 ug/L	99
59) 2-Nitropropane	9.532	41	306735	167.57 ug/L	94
60) 4-Methyl-2-pentanone	9.649	43	1283929	186.35 ug/L	95
61) trans-1,3-Dichloropropene	9.714	75	360776	39.57 ug/L	96
62) Tetrachloroethene	9.731	166	292283	41.18 ug/L	95
63) Ethyl methacrylate	9.820	69	334733	44.13 ug/L	94
64) 1,1,2-Trichloroethane	9.878	83	179292	37.29 ug/L	98
65) Dibromochloromethane	10.078	129	241803	38.17 ug/L	93
66) 1,3-Dichloropropane	10.160	76	393164	39.74 ug/L	95
67) 1,2-Dibromoethane	10.337	107	225039	41.63 ug/L	100
68) 2-hexanone	10.466	43	883212	180.42 ug/L	93
69) 1-Chlorohexane	10.771	91	375713	43.55 ug/L	89
70) Ethylbenzene	10.842	91	1083208	41.63 ug/L	97
71) Chlorobenzene	10.842	112	663423	38.25 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.895	131	247939	36.20 ug/L	95
73) m,p-Xylene	10.977	91	1732804	78.28 ug/L	99
74) o-Xylene	11.418	91	993534	41.16 ug/L	97
75) Styrene	11.465	104	712385	42.13 ug/L	94
76) Bromoform	11.523	173	173465	44.83 ug/L	96
77) Isopropylbenzene	11.723	105	1158422	39.06 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.064	53	85166	38.67 ug/L #	74
81) n-Propylbenzene	12.140	91	1402957	39.93 ug/L	96
82) Bromobenzene	12.164	156	296705	42.55 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.199	83	295735	40.76 ug/L	90
84) 1,3,5-Trimethylbenzene	12.323	105	948009	39.65 ug/L	98
85) 2-Chlorotoluene	12.328	91	956187	39.26 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.381	53	92538	38.40 ug/L #	79
87) 1,2,3-Trichloropropane	12.364	110	82301	37.38 ug/L	96
88) Cyclohexanone	12.428	55	60316	239.39 ug/L	91
89) 4-Chlorotoluene	12.499	91	940964	41.30 ug/L	100
90) a-Methyl Styrene	12.587	118	610773	44.80 ug/L	95

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:49:13 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.663	91	605977	37.84	ug/L		97
92)	1,2,4-Trimethylbenzene	12.734	105	933451	38.10	ug/L		94
93)	Pentachloroethane	12.716	167	176791	35.76	ug/L		91
94)	sec-Butylbenzene	12.845	105	1296722	39.22	ug/L		96
95)	4-Isopropyltoluene	12.981	119	1035567	40.96	ug/L		98
96)	1,3-Dichlorobenzene	13.116	146	614095	42.07	ug/L		97
97)	1,4-Dichlorobenzene	13.198	146	612082	39.00	ug/L		95
98)	n-Butylbenzene	13.410	92	625445	41.32	ug/L		97
99)	Benzyl Chloride	13.427	126	135732	46.94	ug/L	#	82
100)	1,2-Dichlorobenzene	13.627	146	597585	40.90	ug/L		95
101)	1,2-Dibromo-3-Chloropr...	14.361	75	59681	41.65	ug/L		86
102)	Hexachlorobutadiene	14.908	225	253201	41.59	ug/L		90
103)	1,2,4-Trichlorobenzene	14.955	180	425721	41.34	ug/L		94
104)	Naphthalene	15.237	128	860531	44.71	ug/L		98
105)	1,2,3-Trichlorobenzene	15.407	180	400153	40.56	ug/L		96
107)	Ethanol	4.279	45	50682m	560.50	ug/L		
108)	acrolein	4.731	56	233693	152.10	ug/L		96
109)	Tert Butyl Alcohol	5.354	59	271320	345.78	ug/L		98
110)	tert Amyl alcohol	7.557	59	223345	366.35	ug/L		88
111)	Isobutyl alcohol	7.434	42	178901	568.70	ug/L	#	82
112)	1,4-Dioxane	8.656	88	45988	642.42	ug/L		94
113)	3,3-Dimethyl-1-butanol	10.413	57	1144267	1614.24	ug/L		95

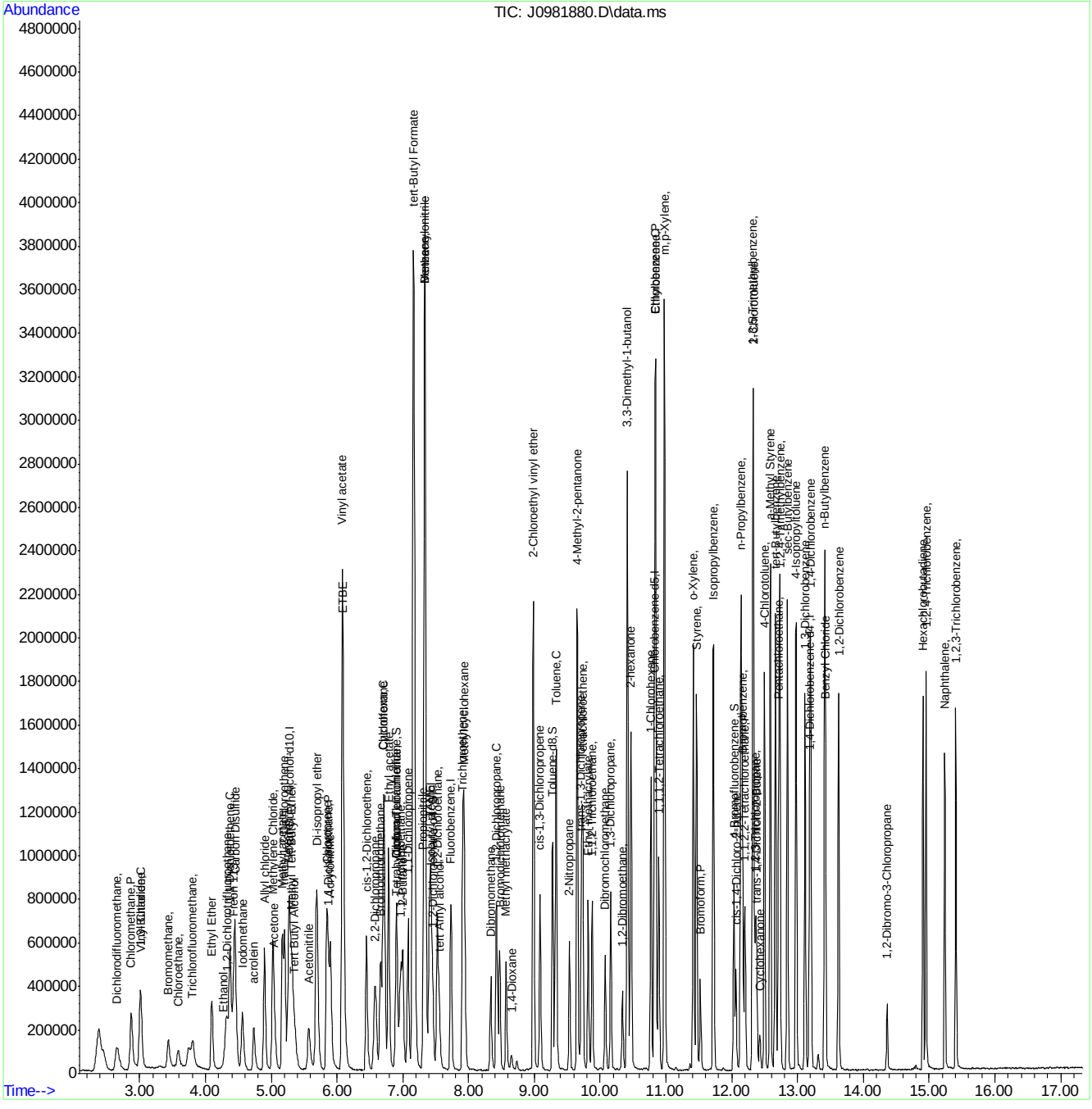
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:49:13 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

Sample Number:	VJ5529-ICC5529	**Method:**	SW846 8260B
Lab FileID:	J0981880.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 14:24	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

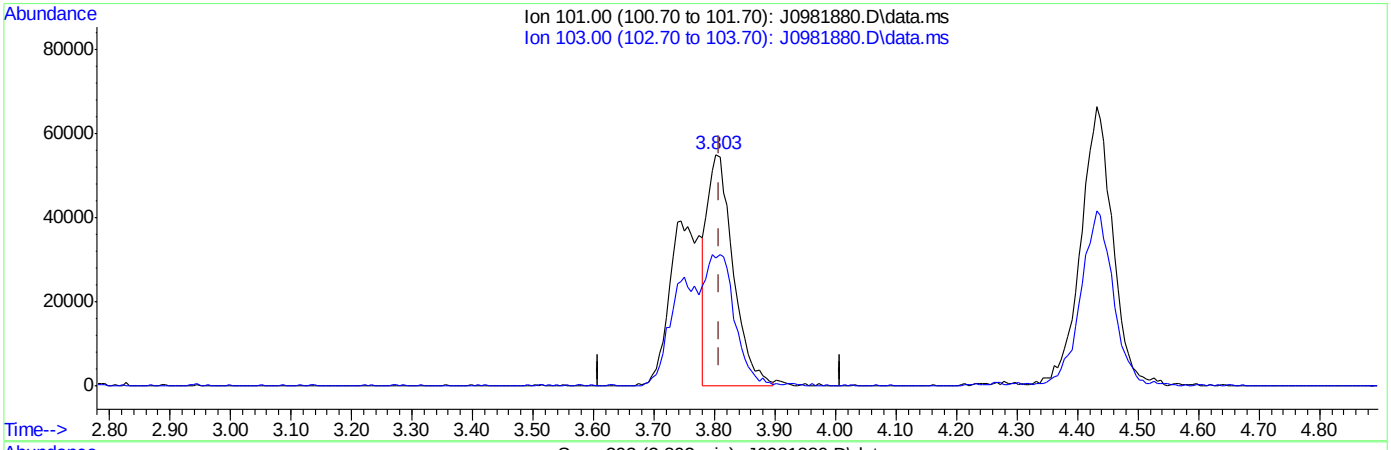
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

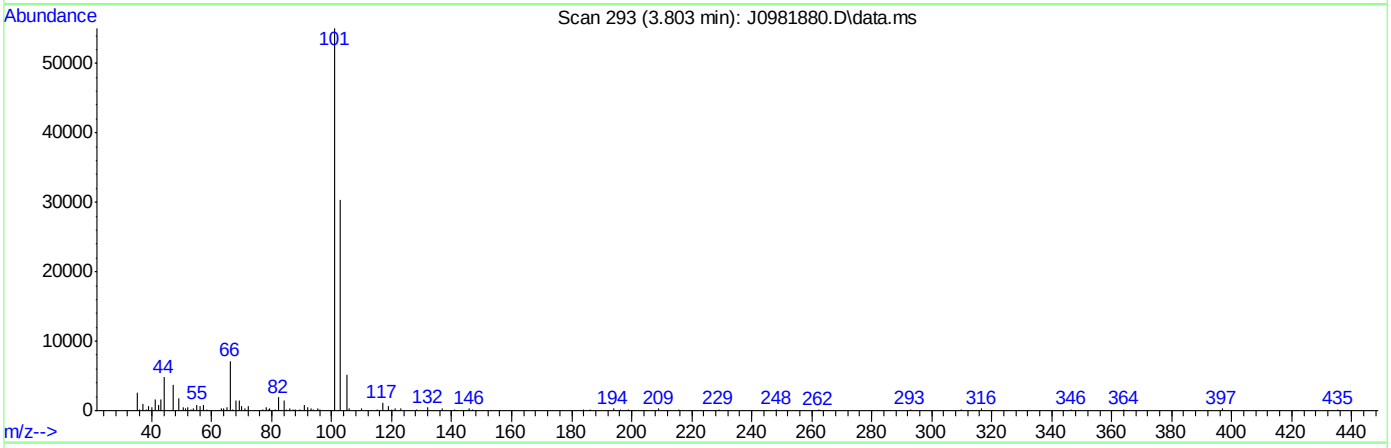
SGS ACCUTEST
FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 9.39ug/L

response 164867

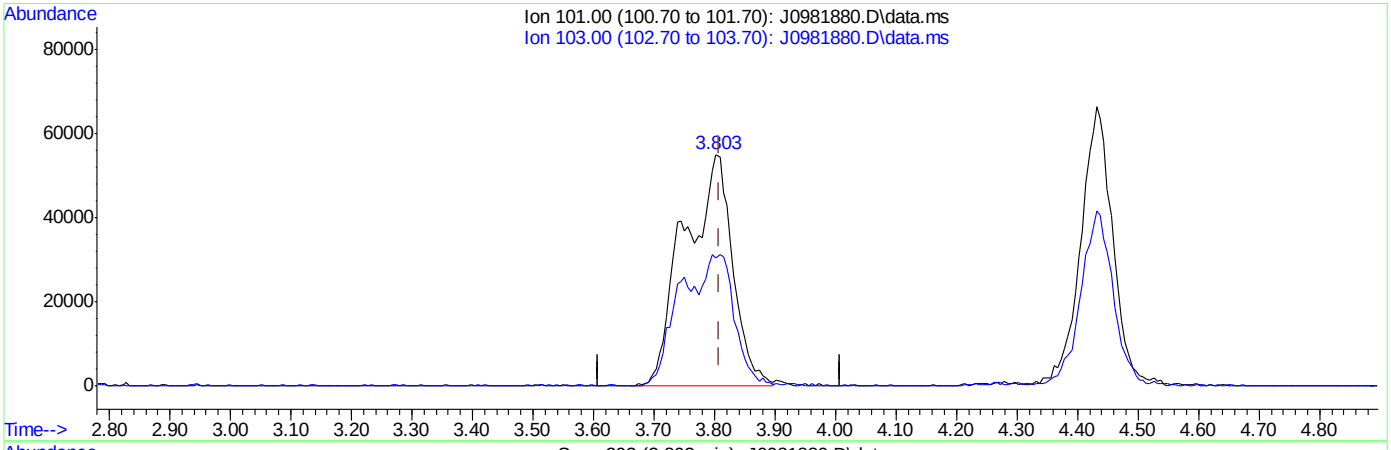
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	55.17
0.00	0.00	0.00
0.00	0.00	0.00

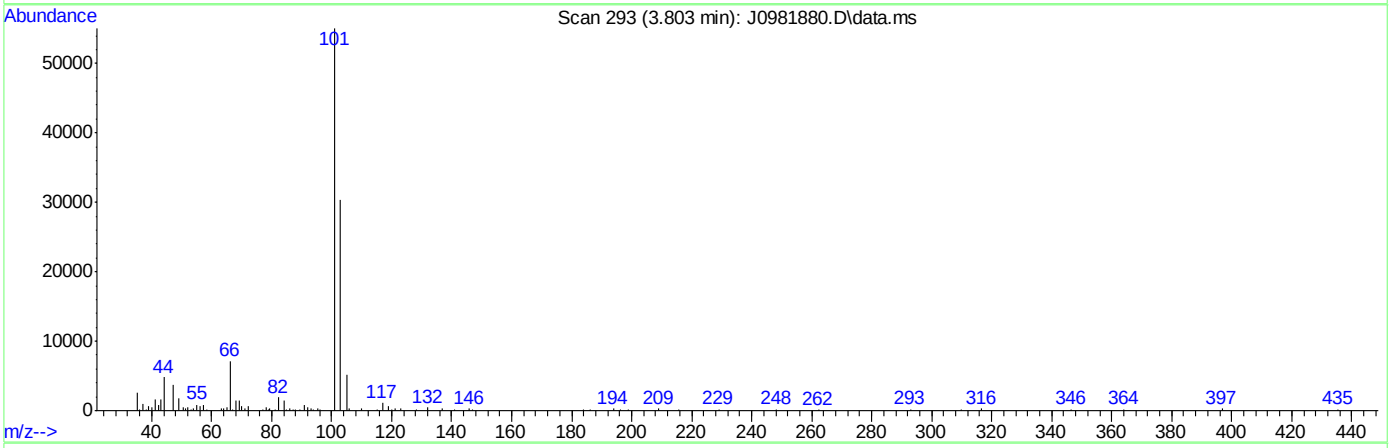
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 17.48ug/L m

response 303147

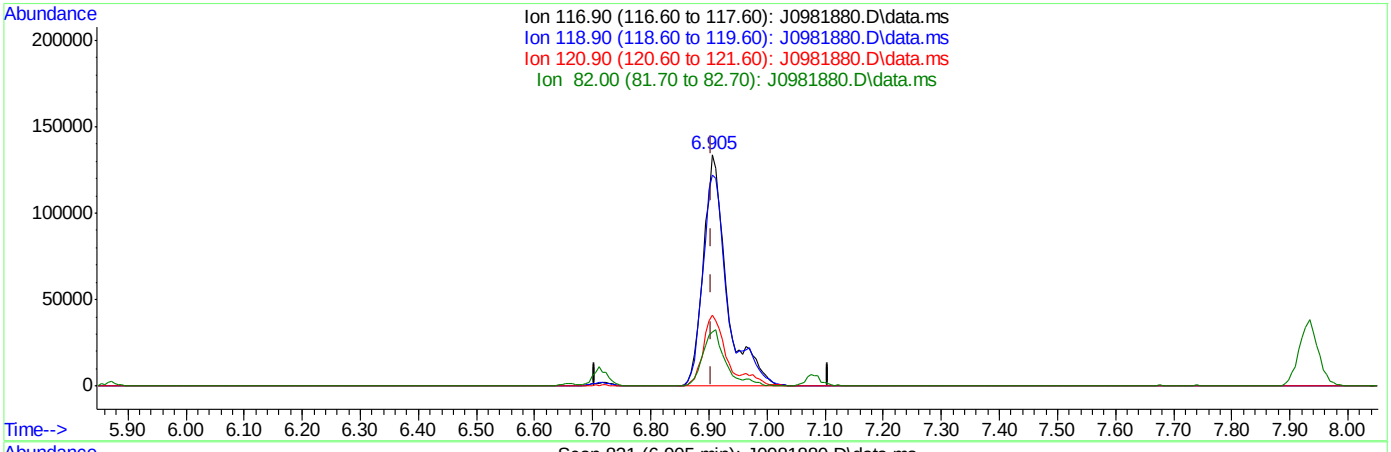
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	55.21
0.00	0.00	0.00
0.00	0.00	0.00

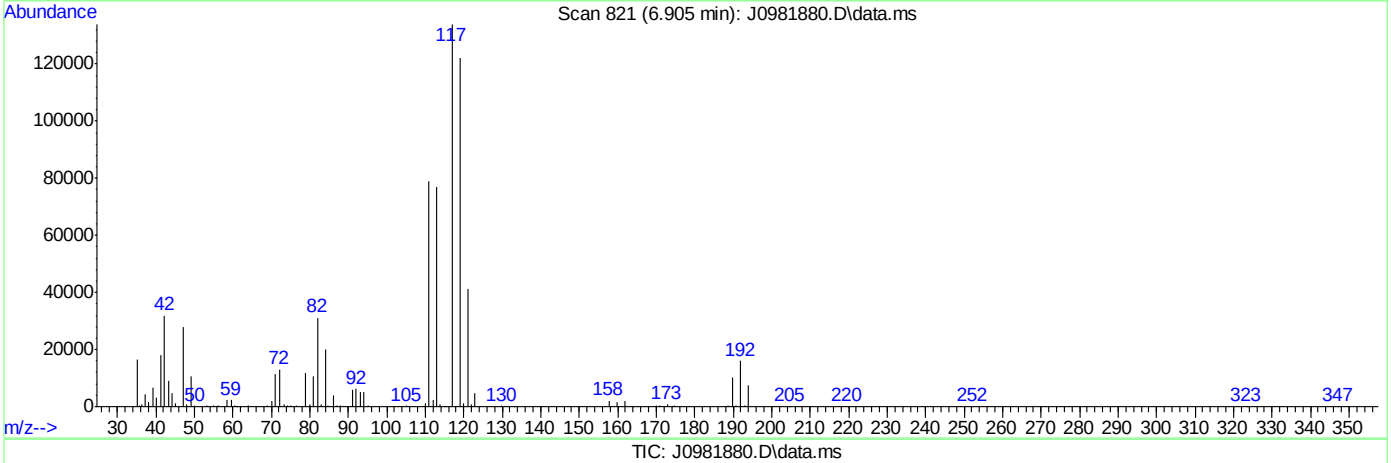
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 33.91ug/L

response 377876

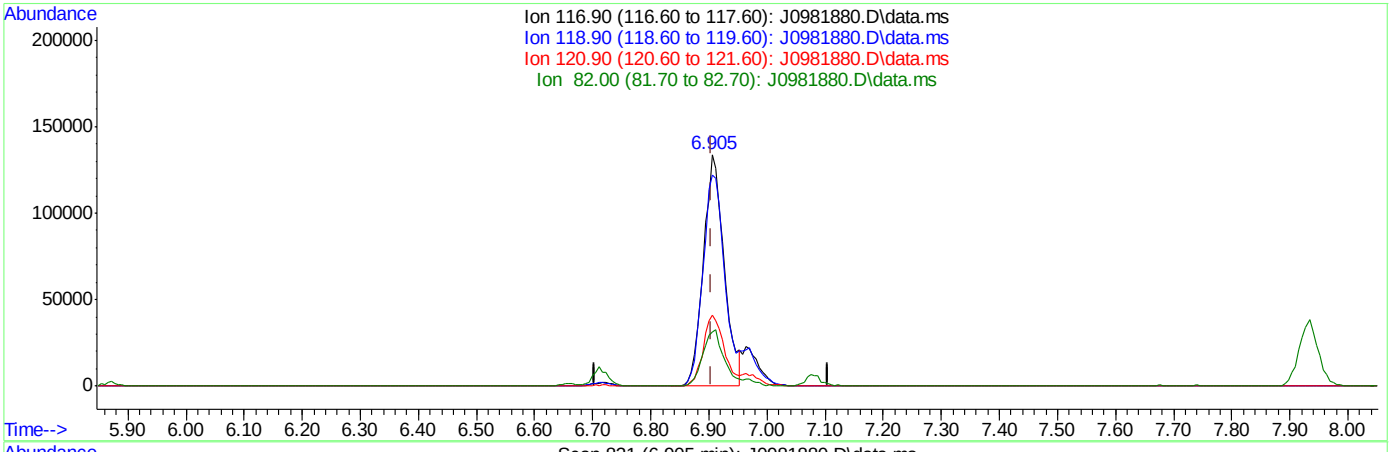
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	91.32
120.90	28.60	30.83
82.00	22.10	22.95

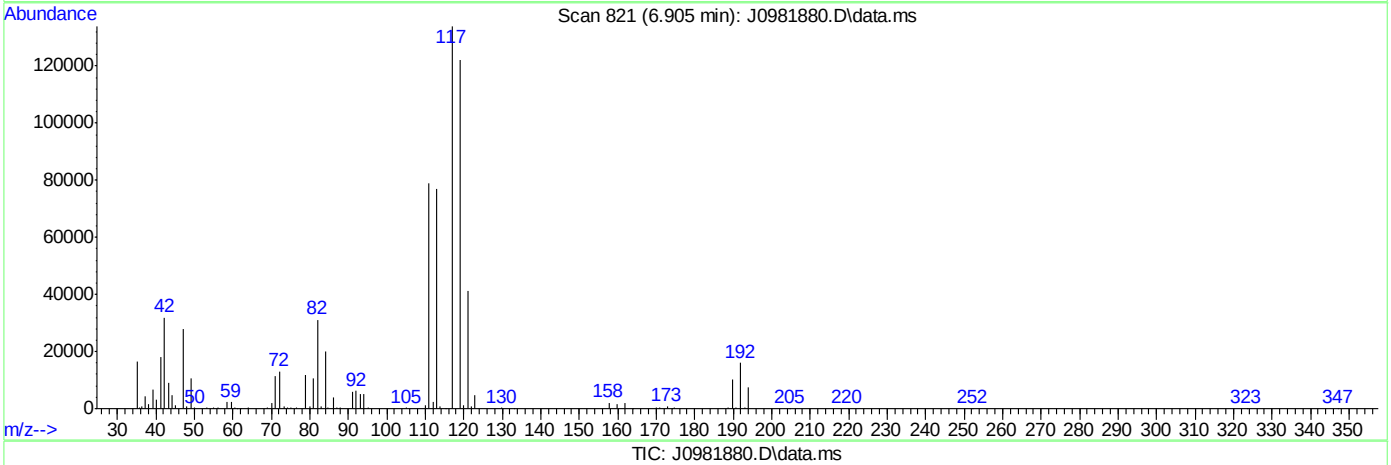
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 29.75ug/L m

response 331559

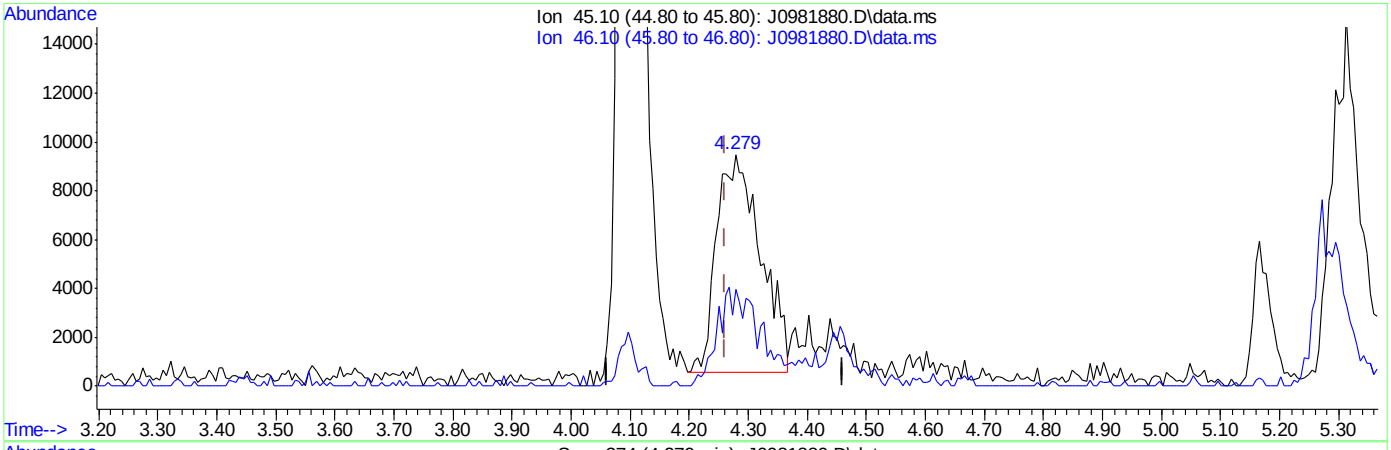
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	91.32
120.90	28.60	30.83
82.00	22.10	23.30

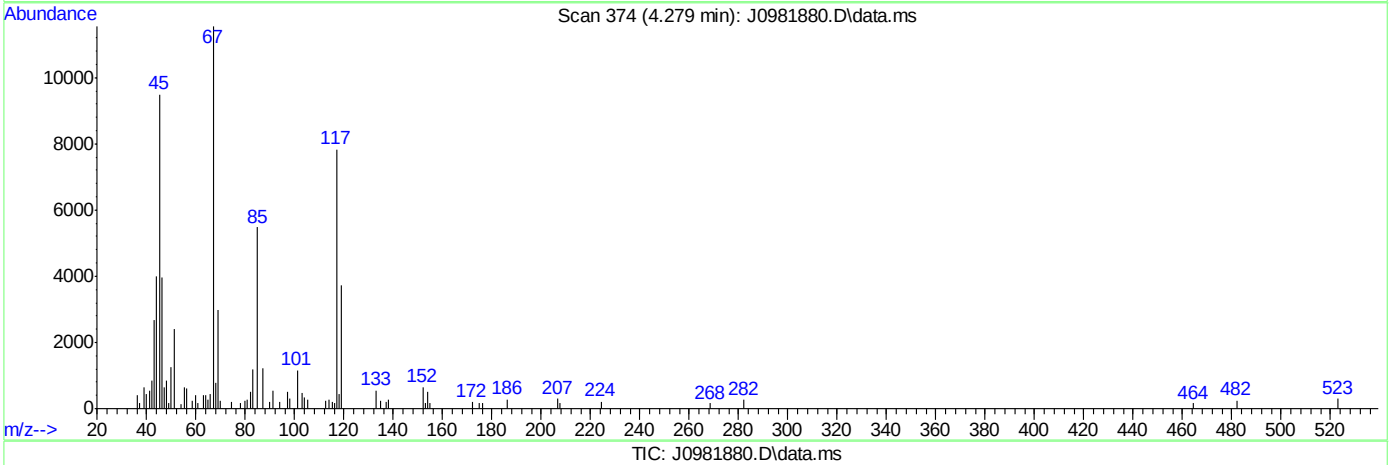
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(107) Ethanol

4.279min (+0.018) 508.13ug/L

response 46297

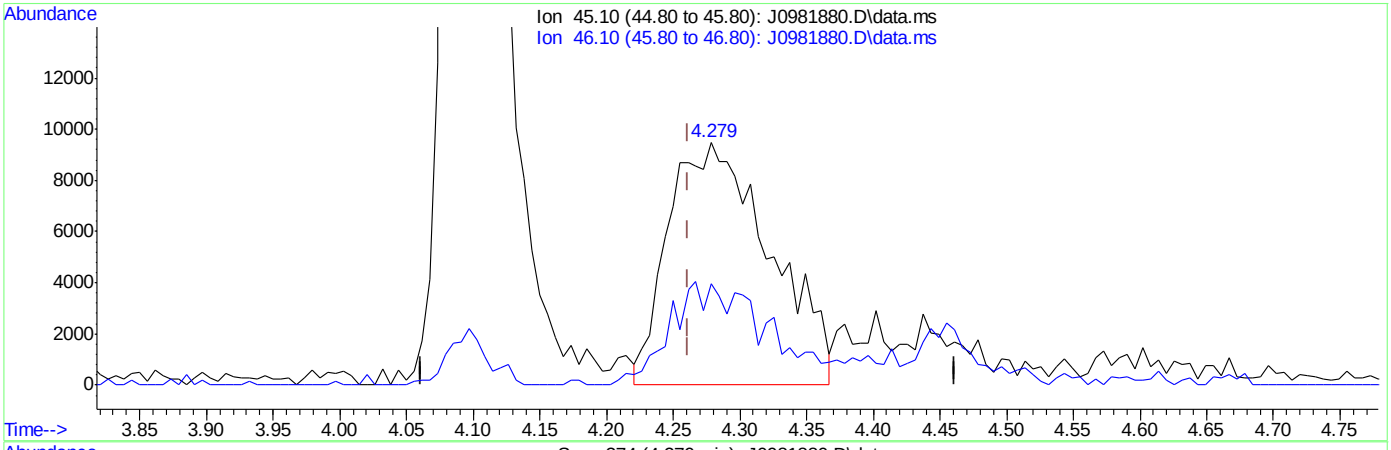
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	44.17
0.00	0.00	0.00
0.00	0.00	0.00

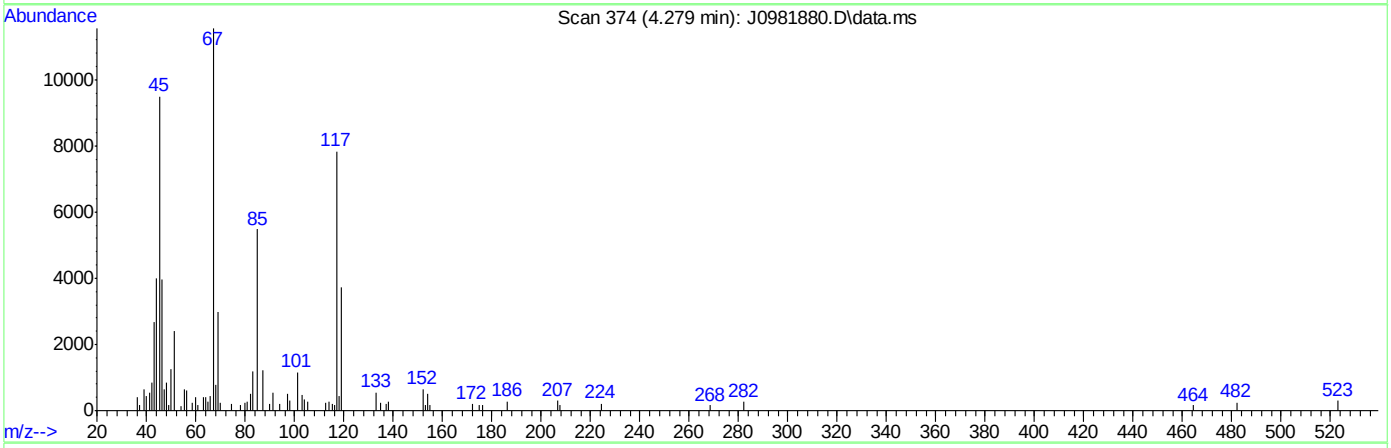
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981880.D
Acq On : 30 Dec 2016 2:24 pm
Operator : melissam
Sample : icc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 30 15:43:58 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981880.D\data.ms

(107) Ethanol

4.279min (+0.018) 560.50ug/L m

response 50682

Ion	Exp%	Act%
45.10	100	100
46.10	42.10	41.60
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:49:46 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	667152	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	463726	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	262188	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	82208	250.00	ug/L #	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	154586	40.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 80.92%#			
46) 1,2-Dichloroethane-d4	7.458	65	210254	39.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 78.84%#			
57) Toluene-d8	9.279	98	632980	55.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 110.14%			
79) 4-Bromofluorobenzene	12.035	95	254016	58.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 117.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.652	85	535981	68.13	ug/L	95
3) Chloromethane	2.875	50	736773	60.64	ug/L	93
4) Vinyl Chloride	3.028	62	456445	42.83	ug/L	96
5) 1,3-Butadiene	3.016	54	292259	33.02	ug/L	94
6) Bromomethane	3.439	94	227591	34.57	ug/L	88
7) Chloroethane	3.580	64	151709	29.48	ug/L	89
8) Trichlorofluoromethane	3.809	101	533080m	31.05	ug/L	
9) Ethyl Ether	4.103	59	382876	53.91	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.332	67	489461	53.14	ug/L	96
11) 1,1-Dichloroethene	4.373	61	693624	58.43	ug/L	96
12) Freon 113	4.426	101	412446	50.84	ug/L	97
13) Carbon Disulfide	4.455	76	1433093	57.92	ug/L	95
14) Iodomethane	4.567	142	732072	57.07	ug/L	95
15) Allyl chloride	4.902	41	791664	58.17	ug/L	90
16) Methylene Chloride	5.025	49	704481	54.61	ug/L	91
17) Acetone	5.049	58	190381	294.70	ug/L	99
18) Methyl acetate	5.172	74	307102	303.70	ug/L #	85
19) trans-1,2-Dichloroethene	5.207	61	661301	62.08	ug/L	94
20) Hexane	5.272	56	428361	52.10	ug/L #	88
21) Methyl Tert Butyl Ether	5.313	73	1319379	66.84	ug/L	91
22) Acetonitrile	5.566	40	289401	547.46	ug/L	88
23) Di-isopropyl ether	5.695	45	1761474	60.77	ug/L	98
24) Chloroprene	5.848	53	765851	57.46	ug/L	92
25) 1,1-Dichloroethane	5.871	63	793195	56.99	ug/L	92
26) Acrylonitrile	5.901	53	832445	296.25	ug/L	93
27) ETBE	6.095	59	1629617	65.11	ug/L	99
28) Vinyl acetate	6.083	43	4592141	266.28	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	479937	69.25	ug/L	93
30) 2,2-Dichloropropane	6.576	77	671134	60.64	ug/L	92
31) Bromochloromethane	6.659	128	221380	57.80	ug/L	97
32) Cyclohexane	6.712	56	905432	63.12	ug/L	94
33) Chloroform	6.712	83	753888	52.37	ug/L	96
34) Ethyl acetate	6.782	43	2011220	275.05	ug/L	95

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:49:46 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	135945	63.29 ug/L	96
37) Carbon Tetrachloride	6.905	117	574607m	50.97 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	705208	58.04 ug/L	97
39) 2-Butanone	6.999	43	941730	298.78 ug/L	100
40) 1,1-Dichloropropene	7.082	75	570811	58.39 ug/L	89
41) tert-Butyl Formate	7.164	59	4381999	749.78 ug/L #	78
42) Propionitrile	7.311	54	593422	586.06 ug/L	98
43) Methacrylonitrile	7.340	41	2333062	526.27 ug/L	98
44) Benzene	7.334	78	1449742	60.15 ug/L	88
45) TAME	7.411	73	1343328	68.46 ug/L	92
47) 1,2-Dichloroethane	7.522	62	606823	51.93 ug/L	95
48) Trichloroethene	7.910	95	427003	59.70 ug/L	96
49) Methylcyclohexane	7.934	83	808077	62.47 ug/L	96
50) Dibromomethane	8.333	93	262827	59.53 ug/L	91
51) 1,2-Dichloropropane	8.427	63	470017	63.79 ug/L	92
52) Bromodichloromethane	8.468	83	569753	58.43 ug/L	93
53) Methyl methacrylate	8.568	41	417474	64.29 ug/L	91
54) 2-Chloroethyl vinyl ether	8.985	63	1371443	303.50 ug/L	92
55) cis-1,3-Dichloropropene	9.085	75	721973	62.37 ug/L	93
58) Toluene	9.332	91	1616393	71.85 ug/L	95
59) 2-Nitropropane	9.532	41	520591	284.84 ug/L	92
60) 4-Methyl-2-pentanone	9.649	43	2062386	313.37 ug/L	93
61) trans-1,3-Dichloropropene	9.714	75	624856	68.33 ug/L	96
62) Tetrachloroethene	9.732	166	499794	70.84 ug/L	96
63) Ethyl methacrylate	9.814	69	580151	73.45 ug/L	94
64) 1,1,2-Trichloroethane	9.879	83	314606	65.82 ug/L	97
65) Dibromochloromethane	10.078	129	426216	63.89 ug/L	96
66) 1,3-Dichloropropane	10.161	76	664988	67.44 ug/L	93
67) 1,2-Dibromoethane	10.337	107	380303	70.78 ug/L	93
68) 2-hexanone	10.466	43	1466751	317.89 ug/L	90
69) 1-Chlorohexane	10.772	91	629188	72.25 ug/L	90
70) Ethylbenzene	10.842	91	1765200	68.24 ug/L	98
71) Chlorobenzene	10.842	112	1099290	63.76 ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.895	131	430532	63.24 ug/L	93
73) m,p-Xylene	10.977	91	2745695	131.99 ug/L	94
74) o-Xylene	11.418	91	1664473	69.16 ug/L	96
75) Styrene	11.465	104	1215219	71.99 ug/L	94
76) Bromoform	11.524	173	305978	79.55 ug/L	96
77) Isopropylbenzene	11.723	105	1938297	65.31 ug/L	95
80) cis-1,4-Dichloro-2-butene	12.064	53	144028	64.98 ug/L #	71
81) n-Propylbenzene	12.141	91	2294288	70.22 ug/L	94
82) Bromobenzene	12.164	156	513967	72.80 ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.199	83	506193	68.91 ug/L	91
84) 1,3,5-Trimethylbenzene	12.323	105	1553417	66.06 ug/L	93
85) 2-Chlorotoluene	12.329	91	1540711	66.25 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.382	53	160705	66.65 ug/L #	82
87) 1,2,3-Trichloropropane	12.364	110	135812	61.98 ug/L	95
88) Cyclohexanone	12.429	55	102856	459.78 ug/L	87
89) 4-Chlorotoluene	12.499	91	1550759	71.00 ug/L	94
90) a-Methyl Styrene	12.587	118	1018653	75.03 ug/L	96

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:49:46 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.664	91	1017414	65.20	ug/L		98
92)	1,2,4-Trimethylbenzene	12.734	105	1540058	64.42	ug/L		93
93)	Pentachloroethane	12.716	167	307681	59.52	ug/L		97
94)	sec-Butylbenzene	12.846	105	2130678	66.78	ug/L		97
95)	4-Isopropyltoluene	12.981	119	1709873	68.37	ug/L		97
96)	1,3-Dichlorobenzene	13.116	146	1040441	70.41	ug/L		97
97)	1,4-Dichlorobenzene	13.198	146	1051194	66.15	ug/L		94
98)	n-Butylbenzene	13.410	92	1059404	70.72	ug/L		91
99)	Benzyl Chloride	13.427	126	224334	76.56	ug/L	#	89
100)	1,2-Dichlorobenzene	13.627	146	1016182	68.70	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.362	75	103508	68.23	ug/L		91
102)	Hexachlorobutadiene	14.908	225	436612	64.90	ug/L		90
103)	1,2,4-Trichlorobenzene	14.955	180	736303	67.20	ug/L		94
104)	Naphthalene	15.237	128	1451673	72.53	ug/L		99
105)	1,2,3-Trichlorobenzene	15.407	180	684594	65.57	ug/L		95
107)	Ethanol	4.267	45	83817m	1002.28	ug/L		
108)	acrolein	4.737	56	404801	279.53	ug/L		98
109)	Tert Butyl Alcohol	5.360	59	473437	641.59	ug/L		94
110)	tert Amyl alcohol	7.558	59	376860	651.80	ug/L		90
111)	Isobutyl alcohol	7.434	42	297573	1042.78	ug/L	#	77
112)	1,4-Dioxane	8.651	88	84800	1293.96	ug/L		91
113)	3,3-Dimethyl-1-butanol	10.413	57	1986270	3125.04	ug/L		94

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

7.6.6

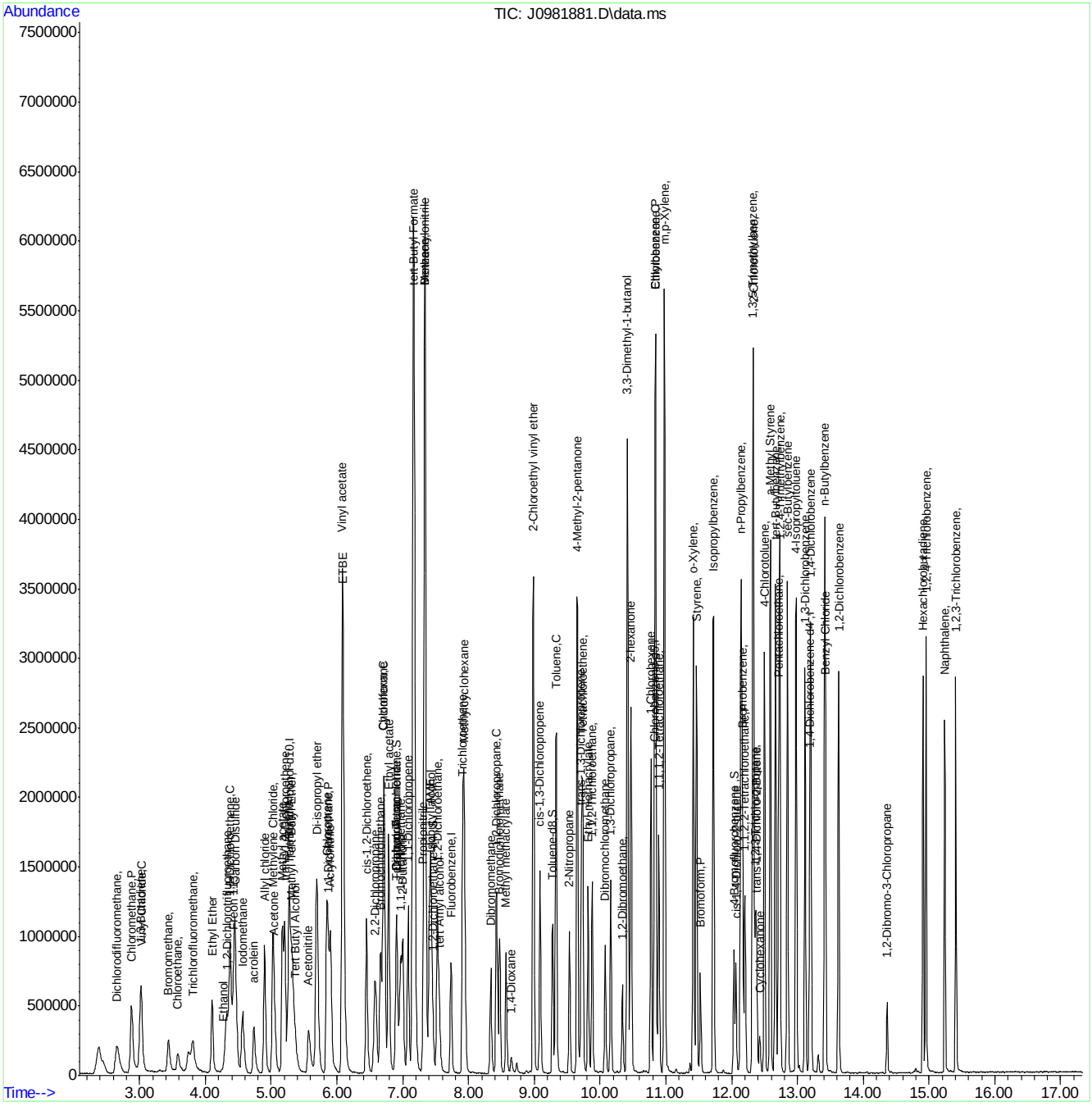
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:49:46 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



Manual Integration Approval Summary

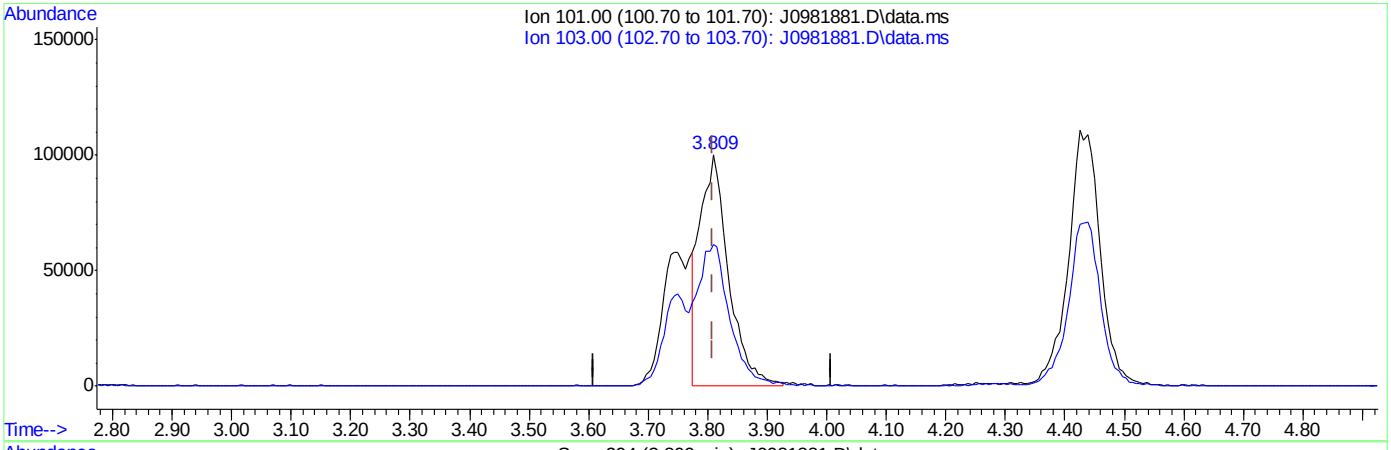
Sample Number:	VJ5529-IC5529	**Method:**	SW846 8260B
Lab FileID:	J0981881.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 14:48	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

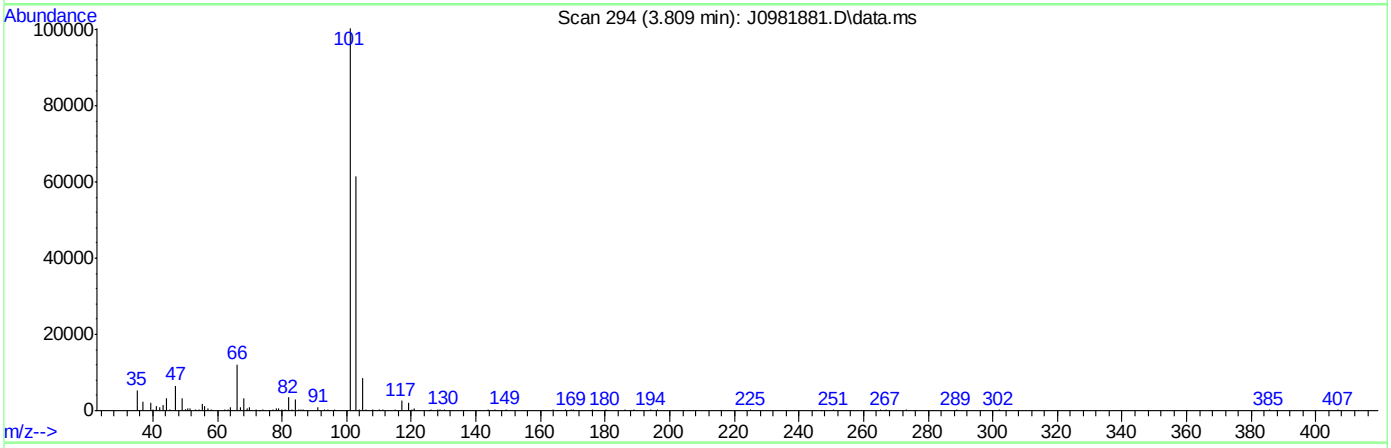
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981881.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.000) 19.20ug/L

response 335949

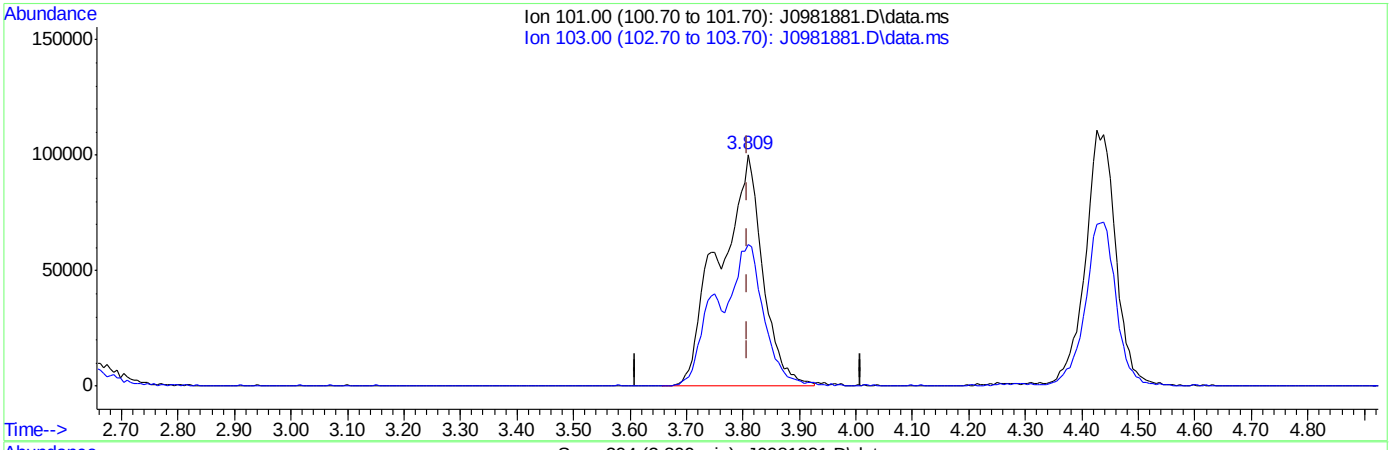
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	60.55
0.00	0.00	0.00
0.00	0.00	0.00

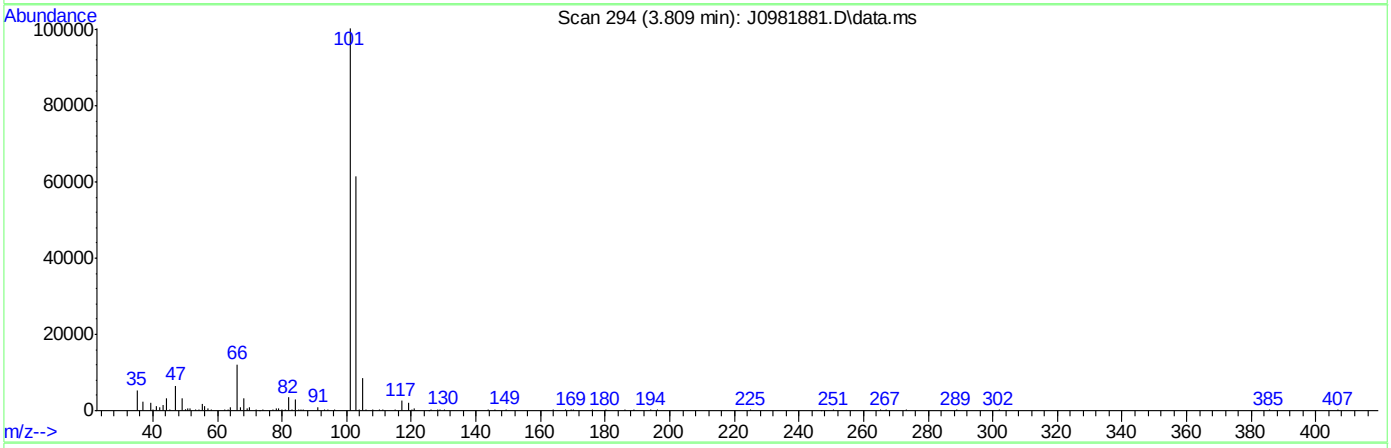
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981881.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.000) 31.05ug/L m

response 533080

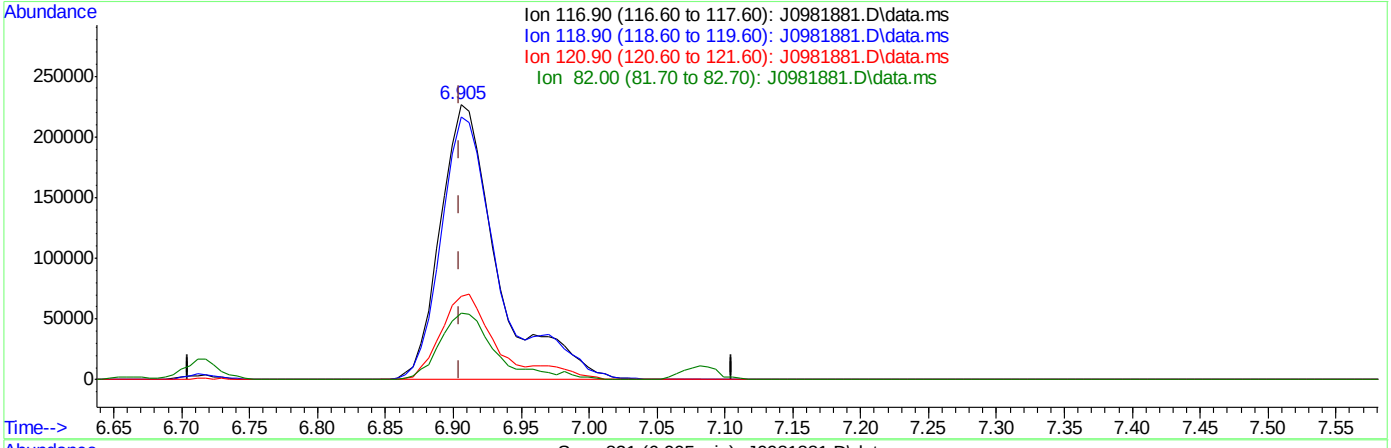
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	61.38
0.00	0.00	0.00
0.00	0.00	0.00

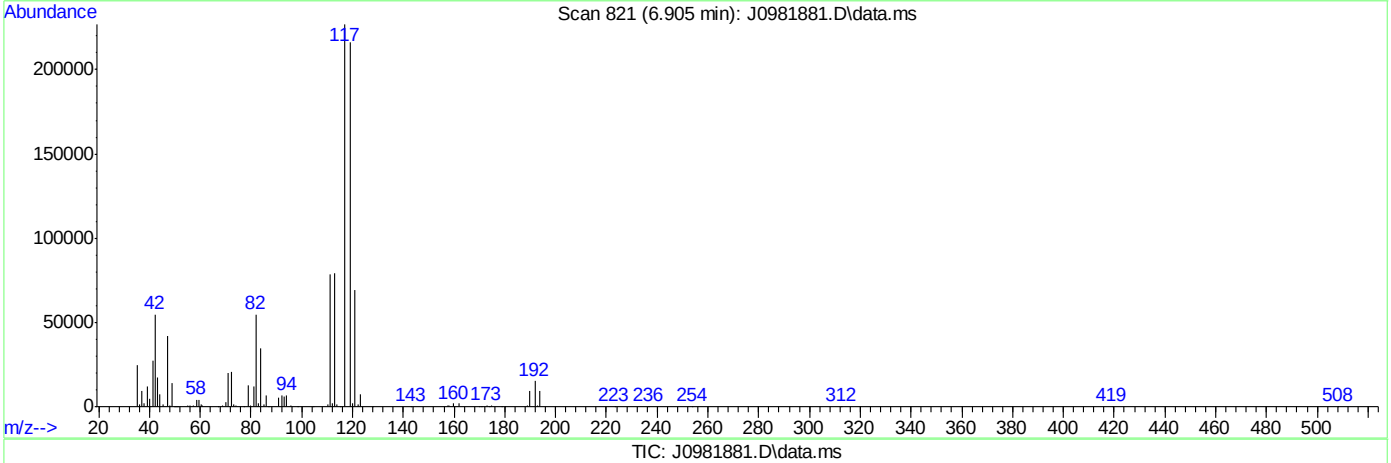
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.905min (+0.000) 58.90ug/L

response 663994

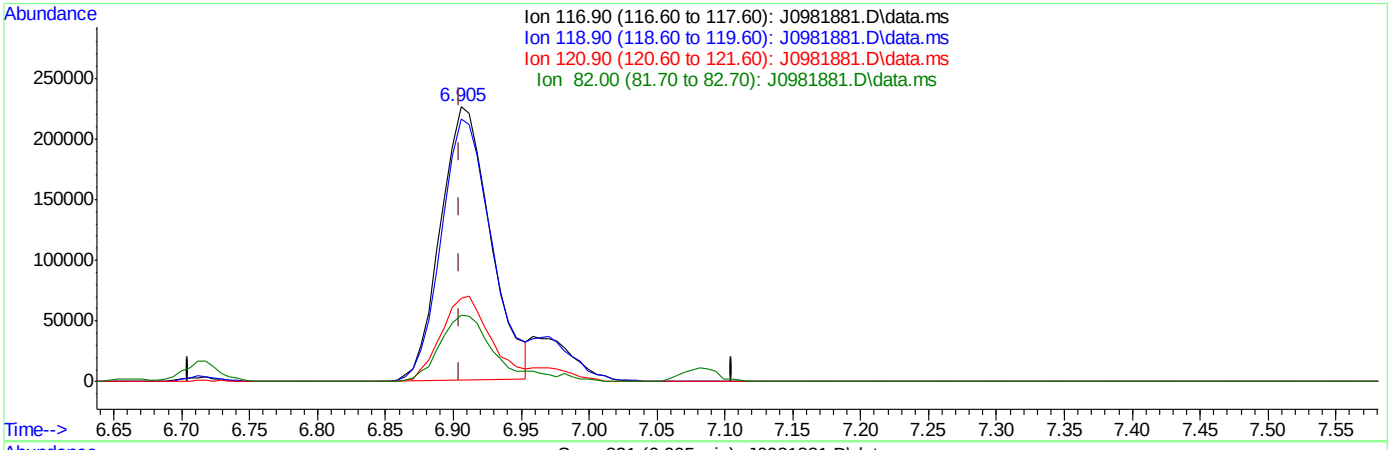
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	95.26
120.90	28.60	30.49
82.00	22.10	24.12

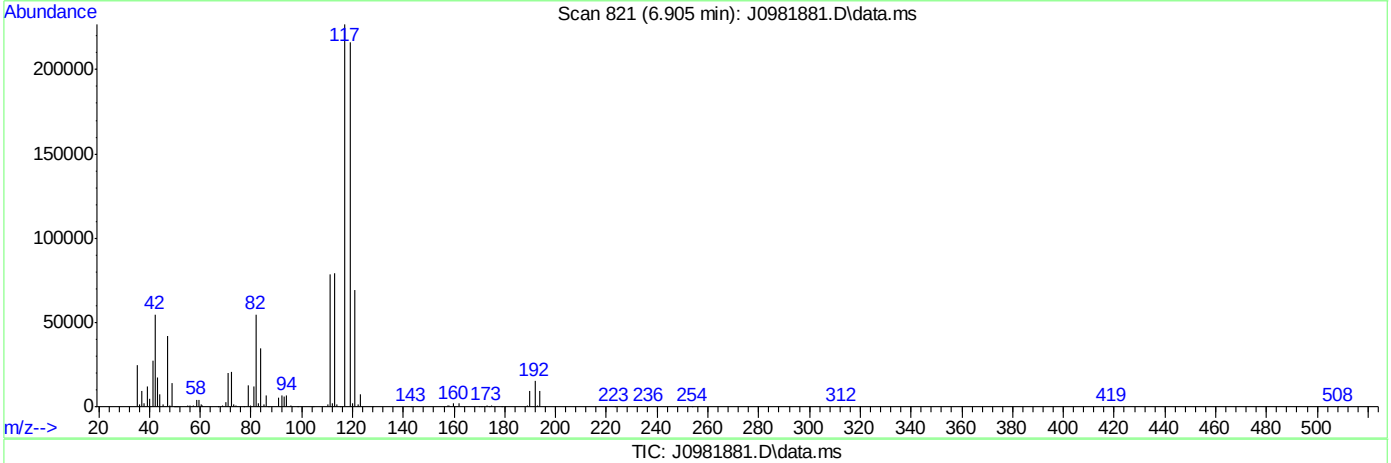
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981881.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 50.97ug/L m

response 574607

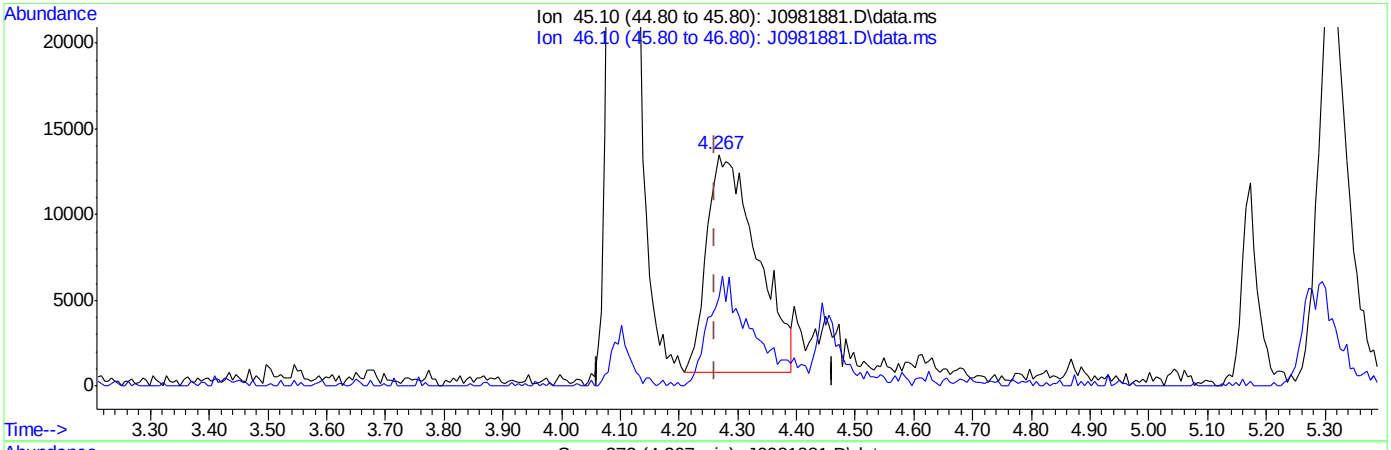
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	95.26
120.90	28.60	30.49
82.00	22.10	24.12

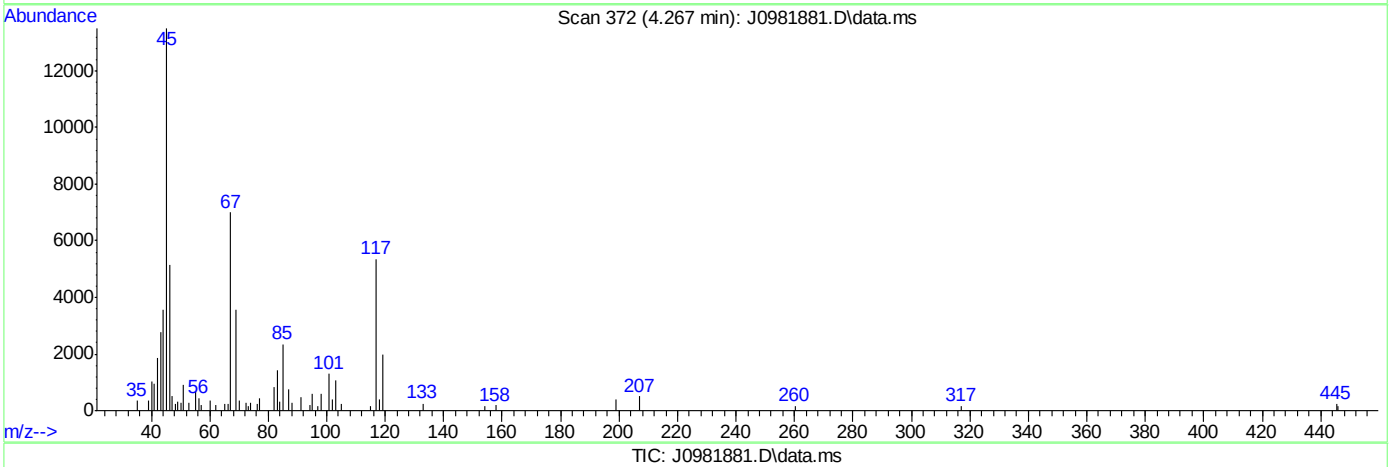
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981881.D\data.ms

(107) Ethanol

4.267min (+0.006) 881.10ug/L

response 75073

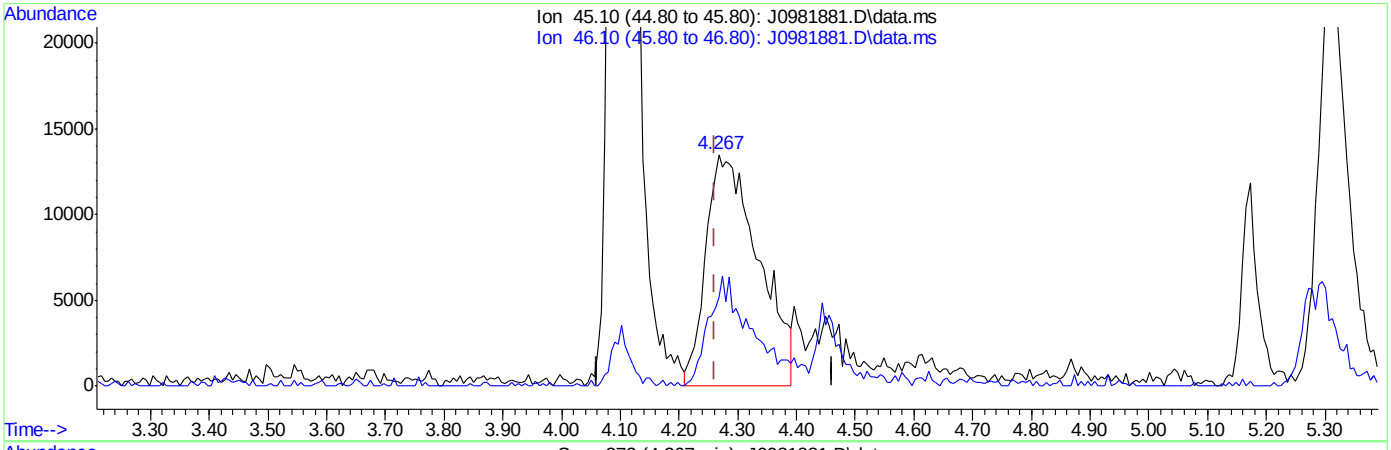
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	40.58
0.00	0.00	0.00
0.00	0.00	0.00

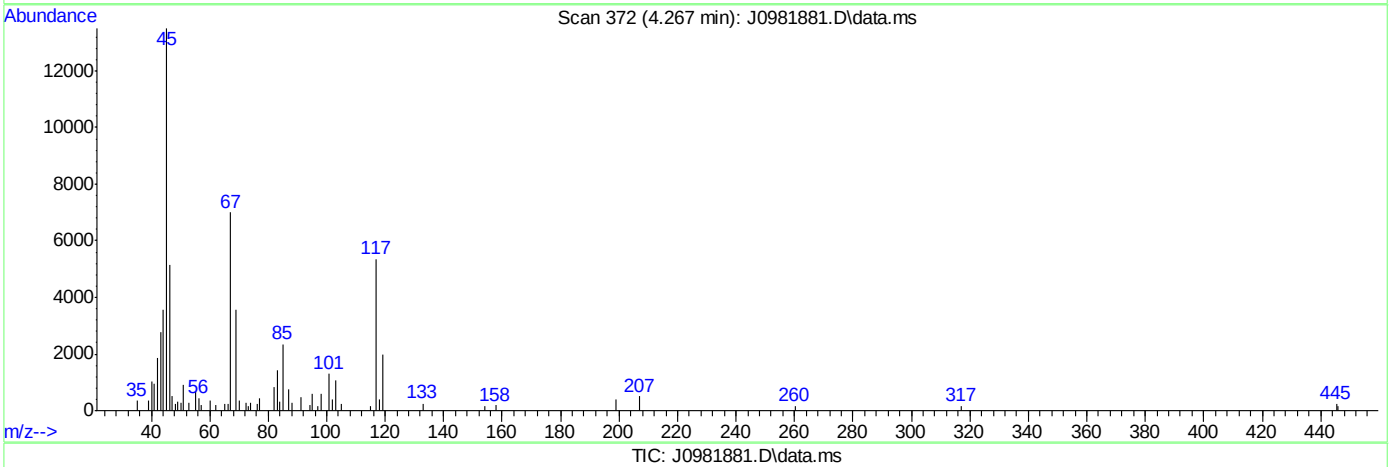
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981881.D
Acq On : 30 Dec 2016 2:48 pm
Operator : melissam
Sample : ic5529-6 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 30 15:44:01 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981881.D\data.ms

(107) Ethanol

4.267min (+0.006) 1002.28ug/L m

response 83817

Ion	Exp%	Act%
45.10	100	100
46.10	42.10	38.17
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

J0981882.D

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:50:14 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	705883	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	488948	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	267830	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	87809	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.899	113	160033	39.59	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 79.18%#			
46) 1,2-Dichloroethane-d4	7.458	65	213887	37.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 75.80%#			
57) Toluene-d8	9.279	98	659965	54.45	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 108.90%			
79) 4-Bromofluorobenzene	12.035	95	274528	61.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 123.80%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	769112	92.41	ug/L	98
3) Chloromethane	2.875	50	1025979	83.80	ug/L	92
4) Vinyl Chloride	3.021	62	676034	63.22	ug/L	97
5) 1,3-Butadiene	3.010	54	429425	47.49	ug/L	95
6) Bromomethane	3.433	94	321503	47.31	ug/L	88
7) Chloroethane	3.574	64	214766	40.70	ug/L	90
8) Trichlorofluoromethane	3.803	101	761806m	42.73	ug/L	
9) Ethyl Ether	4.097	59	553308	73.64	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.326	67	725082	74.40	ug/L	93
11) 1,1-Dichloroethene	4.373	61	1013551	80.69	ug/L	94
12) Freon 113	4.432	101	622148	73.95	ug/L	95
13) Carbon Disulfide	4.443	76	2092204	79.91	ug/L	94
14) Iodomethane	4.561	142	1063778	78.38	ug/L	100
15) Allyl chloride	4.896	41	1175352	83.52	ug/L	88
16) Methylene Chloride	5.019	49	1016506	79.32	ug/L	88
17) Acetone	5.049	58	274563	401.69	ug/L	93
18) Methyl acetate	5.172	74	453287	423.67	ug/L #	77
19) trans-1,2-Dichloroethene	5.201	61	970509	86.10	ug/L	94
20) Hexane	5.272	56	649524	78.54	ug/L	94
21) Methyl Tert Butyl Ether	5.313	73	1924843	92.16	ug/L	89
22) Acetonitrile	5.566	40	431553	794.70	ug/L	89
23) Di-isopropyl ether	5.695	45	2557699	85.43	ug/L	98
24) Chloroprene	5.842	53	1132149	80.88	ug/L	92
25) 1,1-Dichloroethane	5.871	63	1182316	85.81	ug/L	96
26) Acrylonitrile	5.901	53	1221011	430.13	ug/L	94
27) ETBE	6.094	59	2343409	92.15	ug/L	98
28) Vinyl acetate	6.083	43	6099574	360.87	ug/L	98
29) cis-1,2-Dichloroethene	6.447	96	715252	97.54	ug/L	94
30) 2,2-Dichloropropane	6.576	77	985003	84.12	ug/L	95
31) Bromochloromethane	6.658	128	323081	79.73	ug/L	93
32) Cyclohexane	6.705	56	1329283	90.76	ug/L	93
33) Chloroform	6.711	83	1115808	73.26	ug/L	98
34) Ethyl acetate	6.782	43	2896095	394.58	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:50:14 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	199374	88.99 ug/L	98
37) Carbon Tetrachloride	6.905	117	851398m	71.38 ug/L	
38) 1,1,1-Trichloroethane	6.964	97	1038852	80.81 ug/L	100
39) 2-Butanone	6.999	43	1377765	413.14 ug/L	99
40) 1,1-Dichloropropene	7.076	75	857586	83.85 ug/L	89
41) tert-Butyl Formate	7.164	59	6009199	1012.38 ug/L #	79
42) Propionitrile	7.311	54	870205	846.88 ug/L	92
43) Methacrylonitrile	7.340	41	3179265	736.00 ug/L	97
44) Benzene	7.334	78	2071648	81.24 ug/L	90
45) TAME	7.411	73	1936750	96.40 ug/L	91
47) 1,2-Dichloroethane	7.522	62	893196	72.25 ug/L	97
48) Trichloroethene	7.910	95	648775	85.73 ug/L	94
49) Methylcyclohexane	7.933	83	1186077	88.78 ug/L	95
50) Dibromomethane	8.333	93	399051	85.43 ug/L	93
51) 1,2-Dichloropropane	8.427	63	701906	90.03 ug/L	90
52) Bromodichloromethane	8.468	83	846648	82.07 ug/L	95
53) Methyl methacrylate	8.568	41	612265	88.51 ug/L	91
54) 2-Chloroethyl vinyl ether	8.985	63	1946369	421.80 ug/L	93
55) cis-1,3-Dichloropropene	9.085	75	1058701	88.92 ug/L	92
58) Toluene	9.332	91	2333442	98.37 ug/L	93
59) 2-Nitropropane	9.532	41	760967	393.27 ug/L	89
60) 4-Methyl-2-pentanone	9.649	43	2873227	430.12 ug/L	90
61) trans-1,3-Dichloropropene	9.714	75	901541	92.80 ug/L	95
62) Tetrachloroethene	9.731	166	722410	97.11 ug/L	95
63) Ethyl methacrylate	9.820	69	848136	98.10 ug/L	92
64) 1,1,2-Trichloroethane	9.878	83	455902	90.46 ug/L	95
65) Dibromochloromethane	10.078	129	632386	85.81 ug/L	94
66) 1,3-Dichloropropane	10.160	76	992397	95.21 ug/L	93
67) 1,2-Dibromoethane	10.337	107	565715	99.86 ug/L	99
68) 2-hexanone	10.466	43	2075030	450.21 ug/L	88
69) 1-Chlorohexane	10.777	91	936730	100.52 ug/L	87
70) Ethylbenzene	10.842	91	2474699	90.74 ug/L	98
71) Chlorobenzene	10.842	112	1609859	88.55 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.895	131	617967	86.09 ug/L	91
73) m,p-Xylene	10.977	91	3713448	178.15 ug/L	87
74) o-Xylene	11.418	91	2364110	92.93 ug/L	93
75) Styrene	11.465	104	1737630	97.28 ug/L	98
76) Bromoform	11.523	173	451502	111.33 ug/L	96
77) Isopropylbenzene	11.723	105	2702374	85.91 ug/L	94
80) cis-1,4-Dichloro-2-butene	12.064	53	217236	96.62 ug/L #	79
81) n-Propylbenzene	12.140	91	3178276	106.58 ug/L	89
82) Bromobenzene	12.164	156	730435	101.28 ug/L	93
83) 1,1,2,2-Tetrachloroethane	12.199	83	723790	96.45 ug/L	91
84) 1,3,5-Trimethylbenzene	12.323	105	2180902	93.66 ug/L	90
85) 2-Chlorotoluene	12.334	91	2175627	98.77 ug/L	93
86) trans-1,4-Dichloro-2-B...	12.381	53	226975	93.18 ug/L #	76
87) 1,2,3-Trichloropropane	12.364	110	208927	95.58 ug/L	97
88) Cyclohexanone	12.428	55	148637	918.96 ug/L	92
89) 4-Chlorotoluene	12.499	91	2199344	105.44 ug/L	93
90) a-Methyl Styrene	12.587	118	1464332	107.51 ug/L	95

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:50:14 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.663	91	1449376	94.95	ug/L		97
92)	1,2,4-Trimethylbenzene	12.734	105	2144514	91.32	ug/L		89
93)	Pentachloroethane	12.716	167	453623	83.28	ug/L		97
94)	sec-Butylbenzene	12.845	105	2945321	95.17	ug/L		92
95)	4-Isopropyltoluene	12.981	119	2390922	95.84	ug/L		96
96)	1,3-Dichlorobenzene	13.116	146	1476448	97.81	ug/L		96
97)	1,4-Dichlorobenzene	13.198	146	1480867	91.23	ug/L		94
98)	n-Butylbenzene	13.410	92	1503501	100.60	ug/L		88
99)	Benzyl Chloride	13.427	126	320690	107.05	ug/L	#	87
100)	1,2-Dichlorobenzene	13.627	146	1447273	95.78	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.361	75	155654	96.06	ug/L		87
102)	Hexachlorobutadiene	14.908	225	658127	88.34	ug/L		89
103)	1,2,4-Trichlorobenzene	14.955	180	1059415	90.66	ug/L		93
104)	Naphthalene	15.237	128	2061258	98.40	ug/L		97
105)	1,2,3-Trichlorobenzene	15.407	180	993007	89.39	ug/L		94
107)	Ethanol	4.255	45	134822m	1690.52	ug/L		
108)	acrolein	4.737	56	603120	410.46	ug/L		92
109)	Tert Butyl Alcohol	5.360	59	681628	906.19	ug/L		95
110)	tert Amyl alcohol	7.552	59	562986	954.35	ug/L		90
111)	Isobutyl alcohol	7.434	42	425105	1539.10	ug/L	#	78
112)	1,4-Dioxane	8.650	88	125876	1956.90	ug/L		94
113)	3,3-Dimethyl-1-butanol	10.419	57	2822409	4629.11	ug/L		95

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

7.6.7

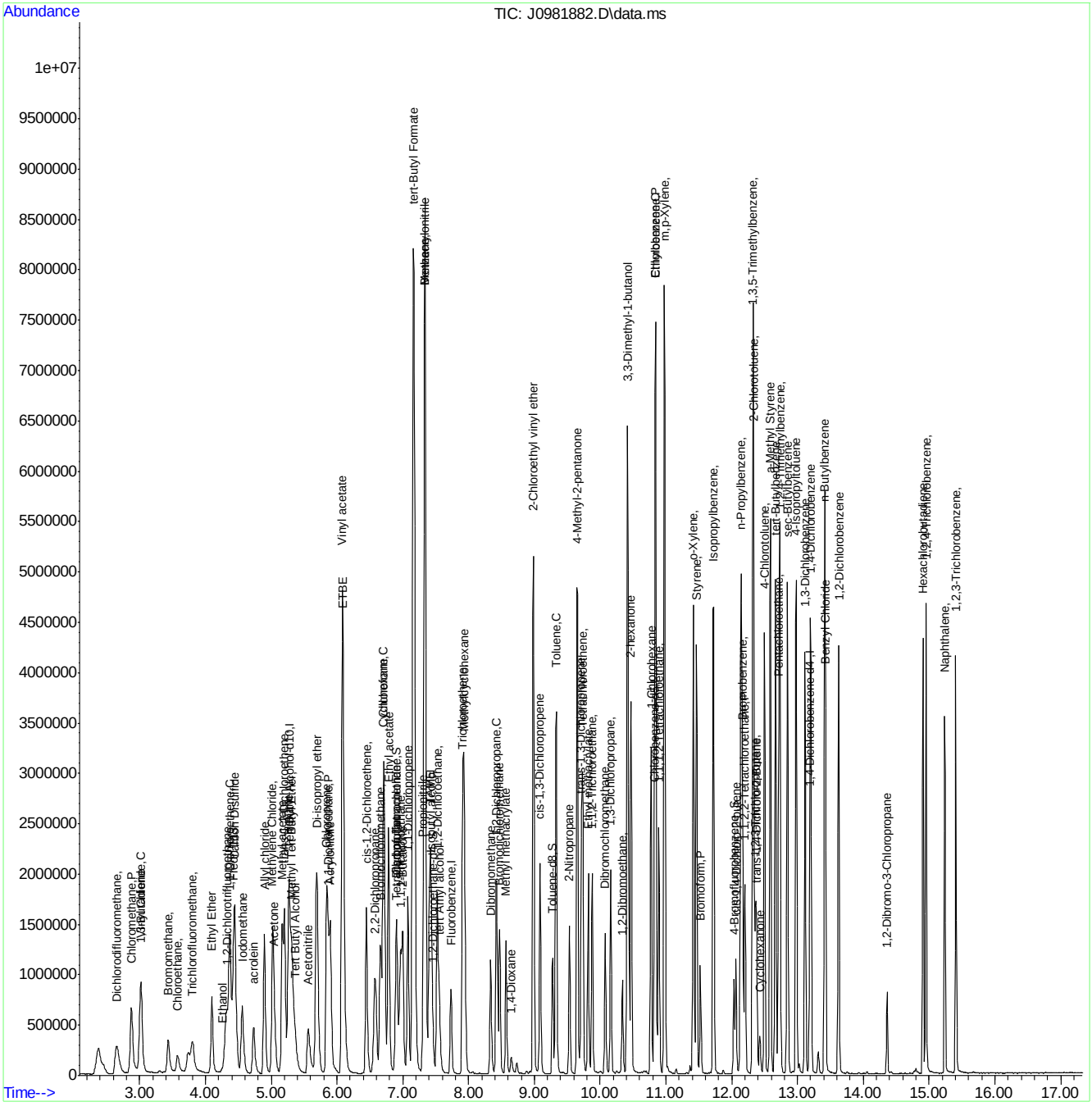
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:50:14 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

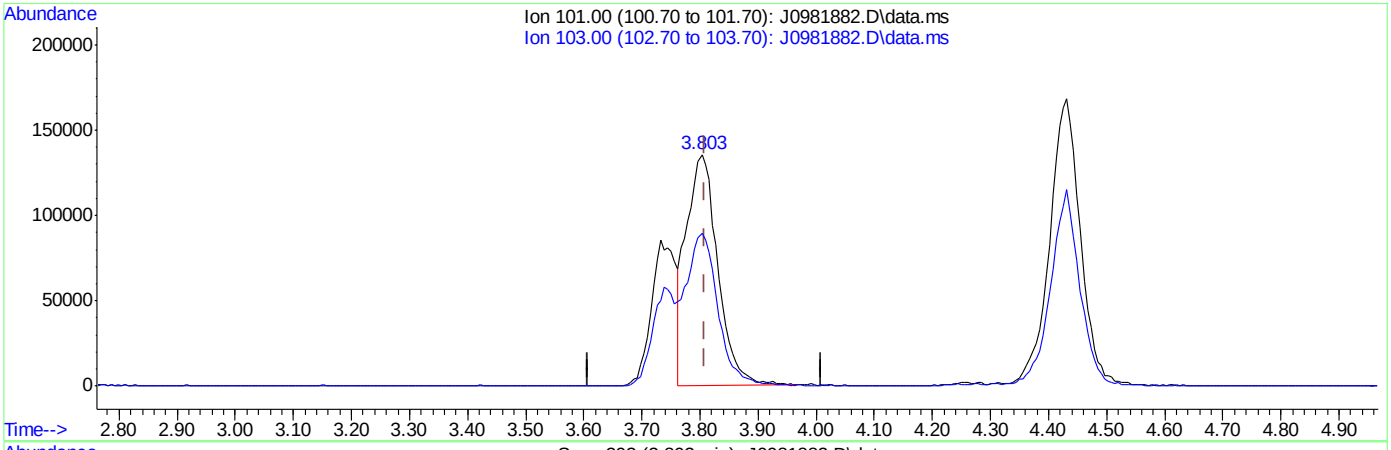
Sample Number:	VJ5529-IC5529	**Method:**	SW846 8260B
Lab FileID:	J0981882.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 15:11	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

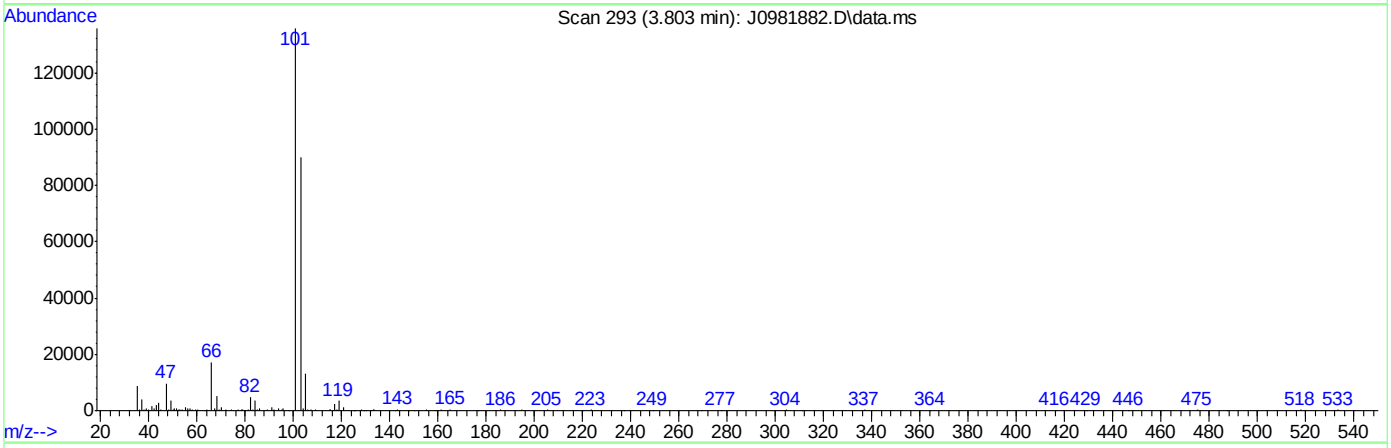
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981882.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 27.57ug/L

response 503683

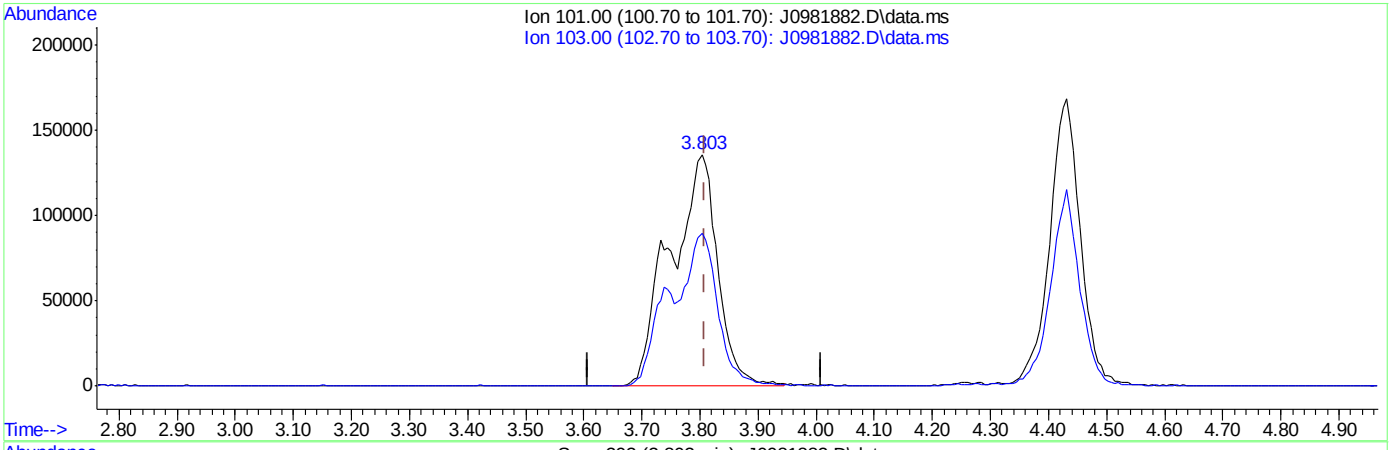
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	66.00
0.00	0.00	0.00
0.00	0.00	0.00

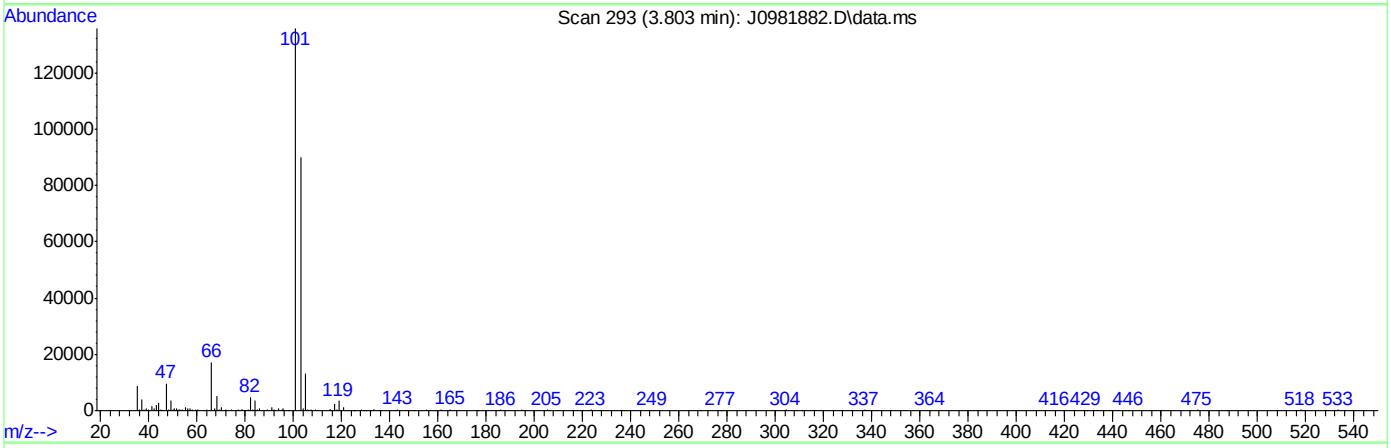
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981882.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 42.73ug/L m

response 761806

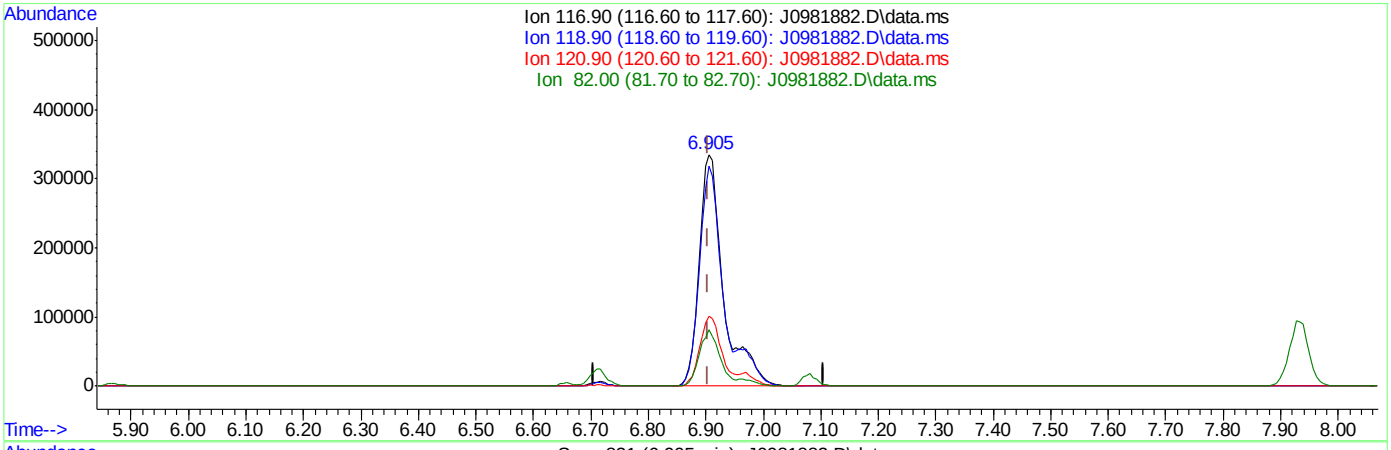
Ion	Exp%	Act%
101.00	100	100
103.00	61.00	66.20
0.00	0.00	0.00
0.00	0.00	0.00

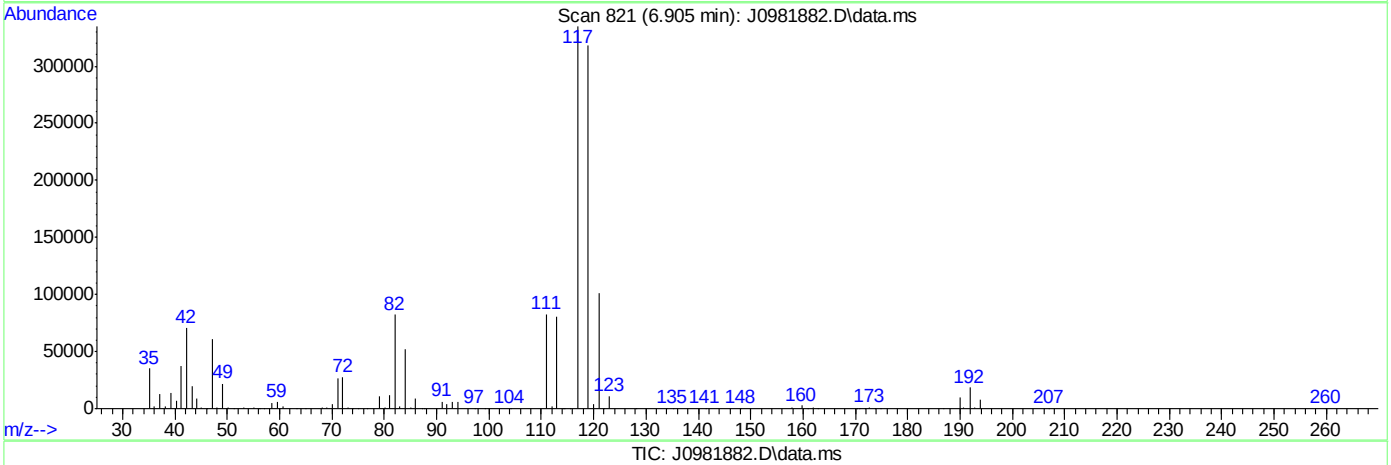
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.905min (+0.000) 82.79ug/L

response 987452

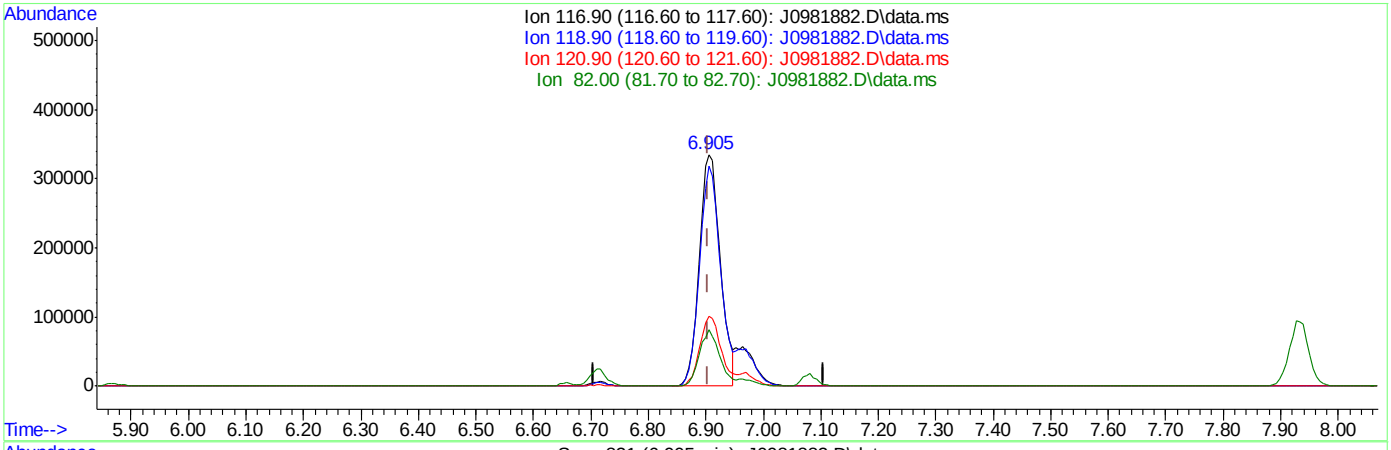
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	95.05
120.90	28.60	30.08
82.00	22.10	24.60

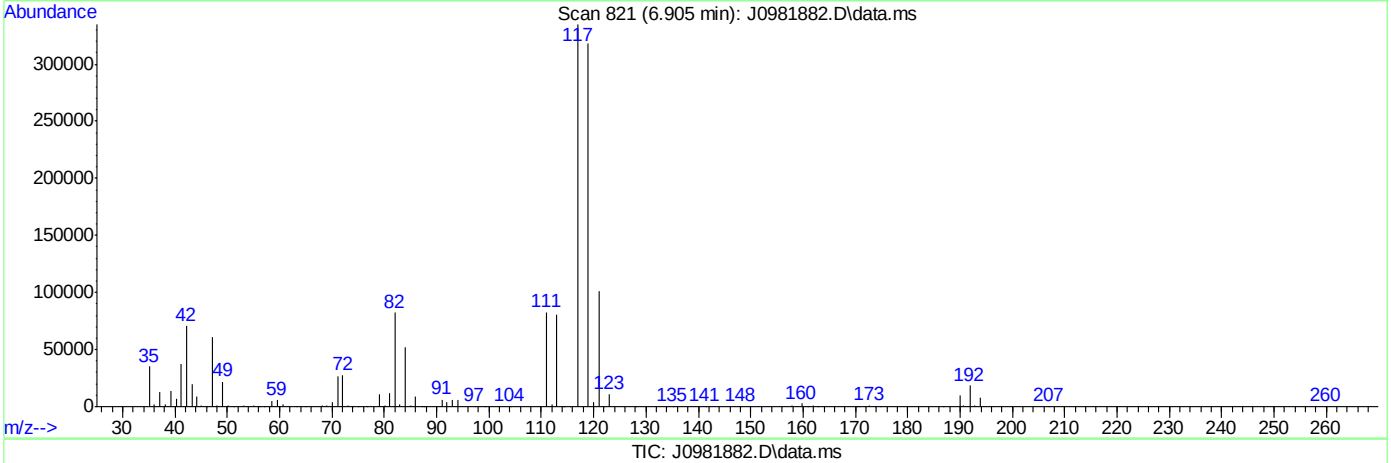
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.905min (+0.000) 71.38ug/L m

response 851398

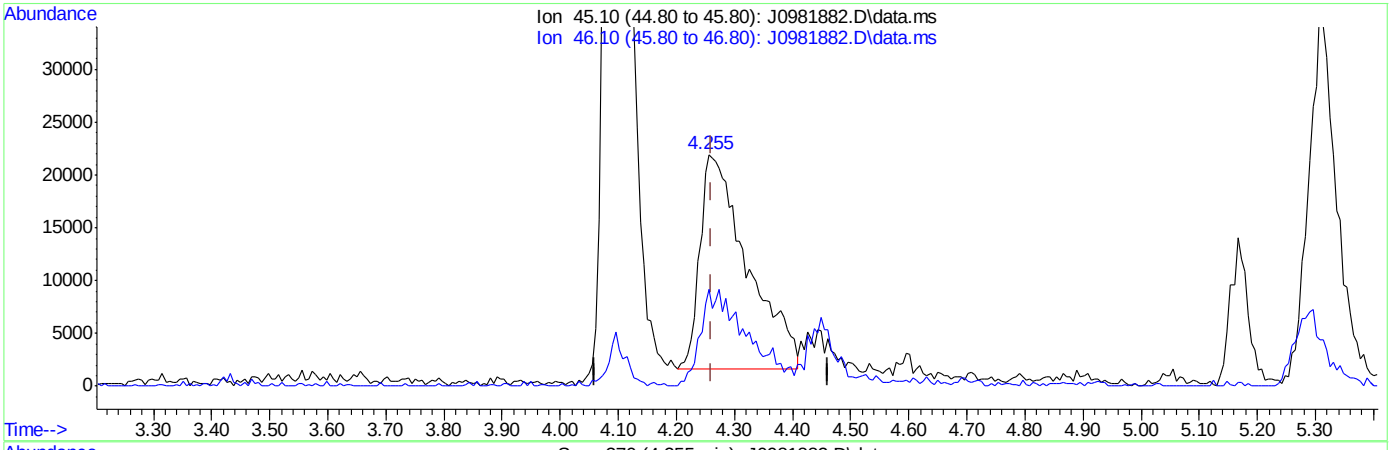
Ion	Exp%	Act%
116.90	100	100
118.90	92.50	95.05
120.90	28.60	30.08
82.00	22.10	24.60

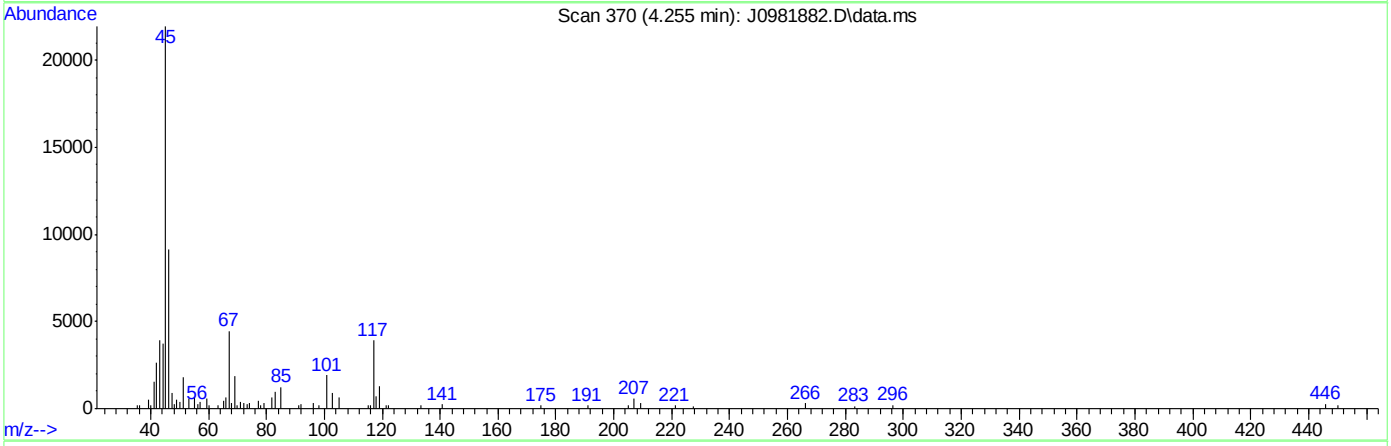
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981882.D\data.ms

(107) Ethanol

4.255min (-0.006) 1350.16ug/L

response 114069

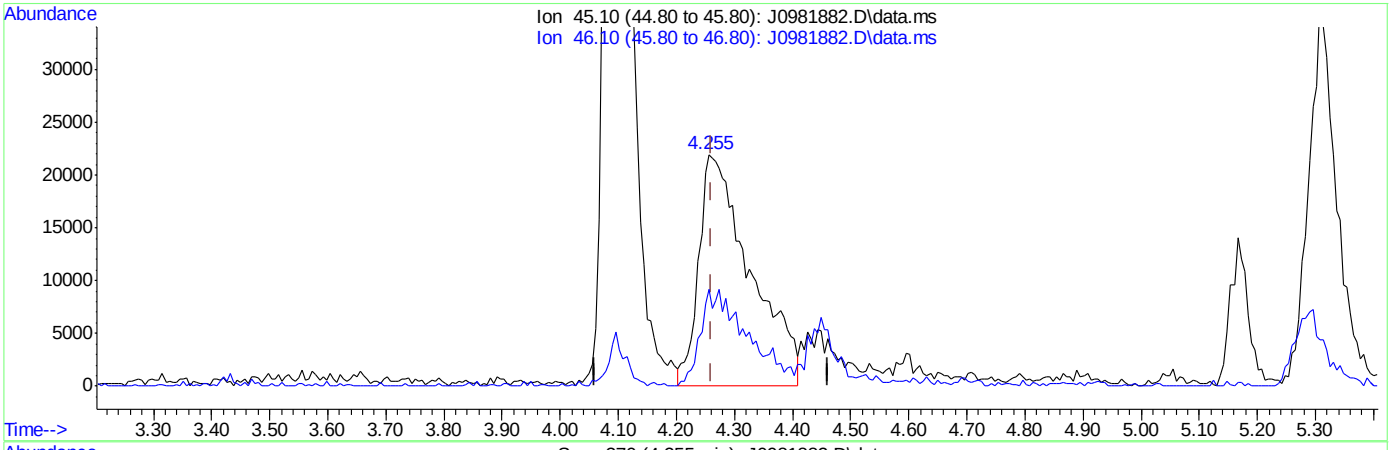
Ion	Exp%	Act%
45.10	100	100
46.10	42.10	45.21
0.00	0.00	0.00
0.00	0.00	0.00

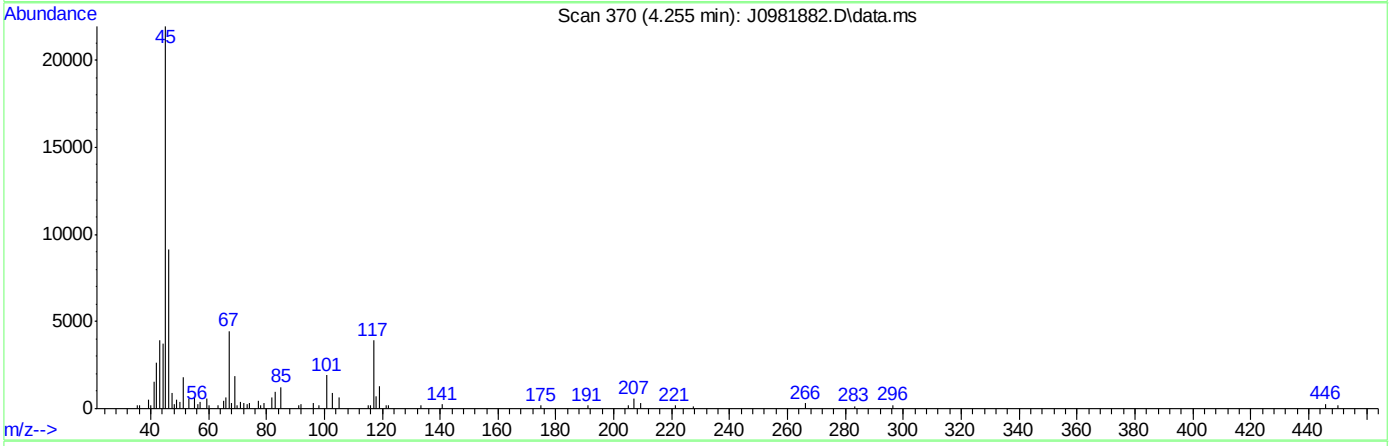
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981882.D
Acq On : 30 Dec 2016 3:11 pm
Operator : melissam
Sample : ic5529-7 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 30 15:44:05 2016
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Dec 30 13:30:44 2016
Response via : Initial Calibration





TIC: J0981882.D\data.ms

(107) Ethanol

4.255min (-0.006) 1690.52ug/L m

response 134822

Ion	Exp%	Act%
45.10	100	100
46.10	42.10	41.74
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/03/17 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 10:00:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	660222	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	482775	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	271962	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	77309	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.900	113	162423	52.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.22%			
46) 1,2-Dichloroethane-d4	7.452	65	196660	46.92	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 93.84%			
57) Toluene-d8	9.279	98	617280	48.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.30%			
79) 4-Bromofluorobenzene	12.035	95	255085	47.02	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.646	85	294480	41.01	ug/L	94
3) Chloromethane	2.863	50	371738	35.73	ug/L	97
4) Vinyl Chloride	3.010	62	222126	35.17	ug/L	93
5) 1,3-Butadiene	2.981	54	1024	0.26	ug/L #	81
6) Bromomethane	3.427	94	121750	36.02	ug/L	91
7) Chloroethane	3.580	64	90090	37.88	ug/L	86
8) Trichlorofluoromethane	3.803	101	330857m	43.09	ug/L	
9) Ethyl Ether	4.097	59	204124	36.44	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.314	67	269123	38.85	ug/L	97
11) 1,1-Dichloroethene	4.367	61	400571	41.58	ug/L	97
12) Freon 113	4.432	101	234674	40.10	ug/L	96
13) Carbon Disulfide	4.444	76	790788	39.32	ug/L	100
14) Iodomethane	4.555	142	444149	43.40	ug/L	93
15) Allyl chloride	4.896	41	424464	36.76	ug/L	97
16) Methylene Chloride	5.019	49	398399	39.13	ug/L	98
17) Acetone	5.049	58	105176	197.98	ug/L #	80
18) Methyl acetate	5.166	74	182666	218.44	ug/L #	89
19) trans-1,2-Dichloroethene	5.202	61	389246	41.59	ug/L	95
20) Hexane	5.266	56	236950	39.22	ug/L	95
21) Methyl Tert Butyl Ether	5.307	73	779166	41.94	ug/L	96
22) Acetonitrile	5.572	40	168666	383.73	ug/L #	85
23) Di-isopropyl ether	5.689	45	1059603	42.45	ug/L	97
24) Chloroprene	5.842	53	409483	38.13	ug/L	99
25) 1,1-Dichloroethane	5.871	63	515592	46.06	ug/L	89
26) Acrylonitrile	5.901	53	491611	210.26	ug/L	97
27) ETBE	6.095	59	874263	37.97	ug/L	97
28) Vinyl acetate	6.083	43	2852547	198.80	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	299281	43.29	ug/L	93
30) 2,2-Dichloropropane	6.576	77	435765	45.30	ug/L	99
31) Bromochloromethane	6.659	128	137428	43.35	ug/L	90
32) Cyclohexane	6.706	56	481330	38.31	ug/L	97
33) Chloroform	6.712	83	468070	41.21	ug/L	99
34) Ethyl acetate	6.782	43	1135751	196.51	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 10:00:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	77804	40.95	ug/L	97
37) Carbon Tetrachloride	6.905	117	372892m	47.46	ug/L	
38) 1,1,1-Trichloroethane	6.964	97	407038	40.96	ug/L	96
39) 2-Butanone	6.999	43	589045	212.61	ug/L	94
40) 1,1-Dichloropropene	7.076	75	344304	42.85	ug/L	98
41) tert-Butyl Formate	7.164	59	991094	150.17	ug/L	97
42) Propionitrile	7.305	54	328645	380.61	ug/L	88
43) Methacrylonitrile	7.334	41	1430411	394.25	ug/L	99
44) Benzene	7.329	78	1012410	47.96	ug/L	87
45) TAME	7.411	73	801986	42.69	ug/L	92
47) 1,2-Dichloroethane	7.522	62	377495	43.34	ug/L	99
48) Trichloroethene	7.910	95	274523	44.55	ug/L	92
49) Methylcyclohexane	7.934	83	472501	42.84	ug/L	96
50) Dibromomethane	8.333	93	172075	46.09	ug/L	93
51) 1,2-Dichloropropane	8.421	63	268408	40.96	ug/L	95
52) Bromodichloromethane	8.468	83	360740	44.15	ug/L	100
53) Methyl methacrylate	8.568	41	236260	39.07	ug/L	96
54) 2-Chloroethyl vinyl ether	8.985	63	784386	201.72	ug/L	99
55) cis-1,3-Dichloropropene	9.085	75	457229	45.63	ug/L	97
58) Toluene	9.332	91	1103704	46.14	ug/L	98
59) 2-Nitropropane	9.532	41	322309	204.30	ug/L	98
60) 4-Methyl-2-pentanone	9.649	43	1231038	189.49	ug/L	99
61) trans-1,3-Dichloropropene	9.714	75	414587	47.21	ug/L	99
62) Tetrachloroethene	9.732	166	310218	42.70	ug/L	98
63) Ethyl methacrylate	9.814	69	307776	37.03	ug/L	97
64) 1,1,2-Trichloroethane	9.879	83	198110	44.75	ug/L	93
65) Dibromochloromethane	10.078	129	275966	46.49	ug/L	98
66) 1,3-Dichloropropane	10.161	76	413089	42.16	ug/L	98
67) 1,2-Dibromoethane	10.337	107	256015	46.36	ug/L	98
68) 2-hexanone	10.466	43	842895	194.13	ug/L	97
69) 1-Chlorohexane	10.772	91	381753	42.96	ug/L	98
70) Ethylbenzene	10.842	91	1238675	46.17	ug/L	98
71) Chlorobenzene	10.842	112	741144	45.03	ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.889	131	293292	46.45	ug/L	99
73) m,p-Xylene	10.977	91	1900956	87.54	ug/L	93
74) o-Xylene	11.418	91	1063858	43.25	ug/L	99
75) Styrene	11.465	104	838372	46.39	ug/L	98
76) Bromoform	11.524	173	196082	47.10	ug/L	94
77) Isopropylbenzene	11.718	105	1269994	44.32	ug/L	98
80) cis-1,4-Dichloro-2-butene	12.064	53	93707	43.01	ug/L	94
81) n-Propylbenzene	12.141	91	1509068	41.80	ug/L	98
82) Bromobenzene	12.158	156	363307	48.28	ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.199	83	311351	39.45	ug/L	99
84) 1,3,5-Trimethylbenzene	12.323	105	1107765	46.29	ug/L	97
85) 2-Chlorotoluene	12.329	91	1031805	42.01	ug/L	94
86) trans-1,4-Dichloro-2-B...	12.382	53	95750	39.91	ug/L	97
87) 1,2,3-Trichloropropane	12.364	110	92379	45.34	ug/L	92
88) Cyclohexanone	12.429	55	59335	190.42	ug/L	94
89) 4-Chlorotoluene	12.493	91	992532	42.34	ug/L	94
91) tert-Butylbenzene	12.664	91	640882	41.08	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 10:00:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.734	105	1103548	46.55	ug/L	99
93) Pentachloroethane	12.716	167	208060	44.79	ug/L	86
94) sec-Butylbenzene	12.846	105	1412413	43.50	ug/L	100
95) 4-Isopropyltoluene	12.981	119	1231089	48.11	ug/L	97
96) 1,3-Dichlorobenzene	13.116	146	702829	45.85	ug/L	99
97) 1,4-Dichlorobenzene	13.198	146	696149	43.76	ug/L	97
98) n-Butylbenzene	13.410	92	704337	45.12	ug/L	97
99) Benzyl Chloride	13.427	126	142983	44.26	ug/L	99
100) 1,2-Dichlorobenzene	13.627	146	673851	43.65	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	14.362	75	62670	40.13	ug/L	91
102) Hexachlorobutadiene	14.908	225	277058	42.57	ug/L	98
103) 1,2,4-Trichlorobenzene	14.955	180	520109	47.51	ug/L	94
104) Naphthalene	15.237	128	1085230	49.79	ug/L	99
105) 1,2,3-Trichlorobenzene	15.407	180	493977	48.28	ug/L	99
107) Ethanol	4.285	45	52065m	888.58	ug/L	
108) acrolein	4.731	56	272974	253.99	ug/L	97
109) Tert Butyl Alcohol	5.354	59	342490	546.85	ug/L	87
110) tert Amyl alcohol	7.552	59	206822	406.62	ug/L	91
111) Isobutyl alcohol	7.428	42	166624	810.97	ug/L #	86
112) 1,4-Dioxane	8.645	88	49794	921.24	ug/L	99
113) 3,3-Dimethyl-1-butanol	10.413	57	1188672	2251.46	ug/L	99

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

7.6.8

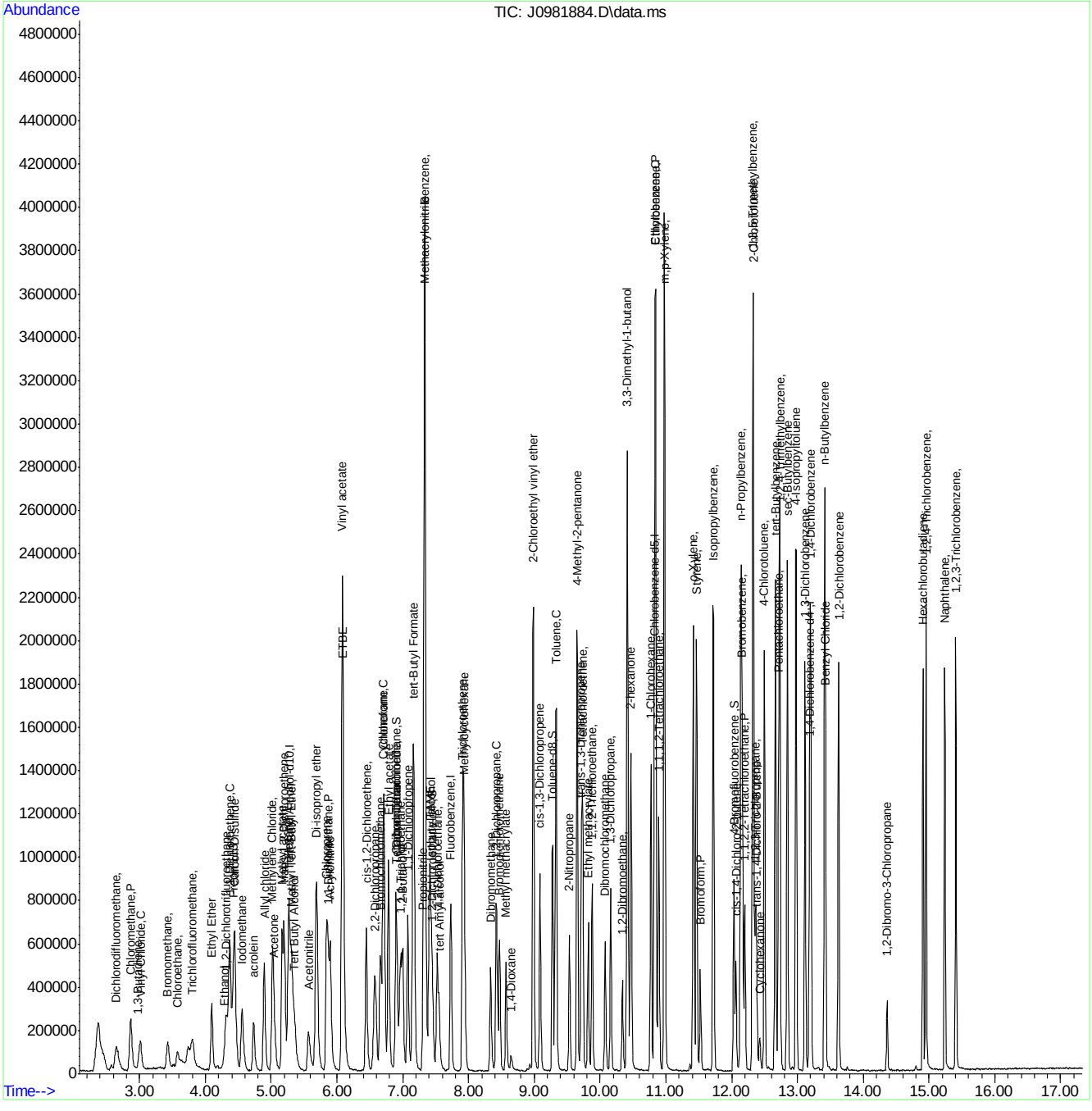
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 10:00:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

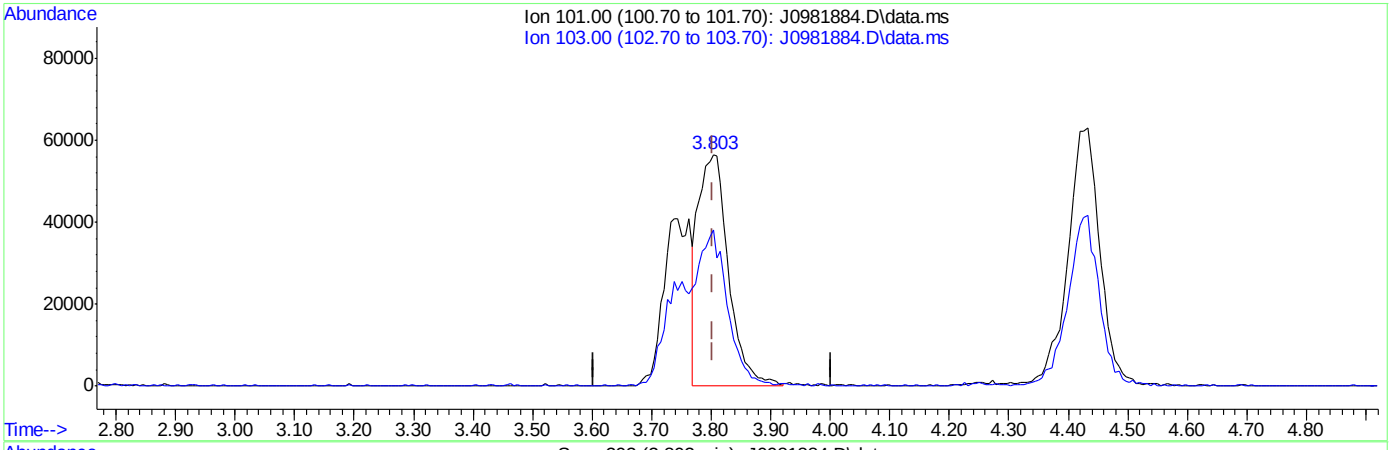
Sample Number:	VJ5529-ICV5529	**Method:**	SW846 8260B
Lab FileID:	J0981884.D	**Analyst approved:**	01/03/17 10:07 Darshna Patel
Injection Time:	12/30/16 15:58	**Supervisor approved:**	01/03/17 15:48 Juan Garcia

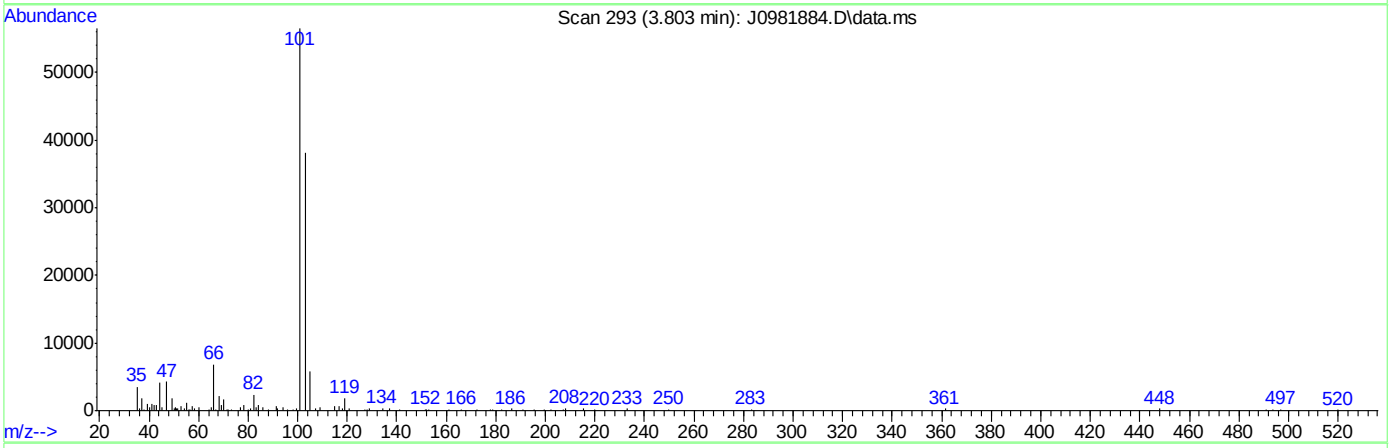
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 06:58:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 06:58:04 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 25.65ug/L

response 199489

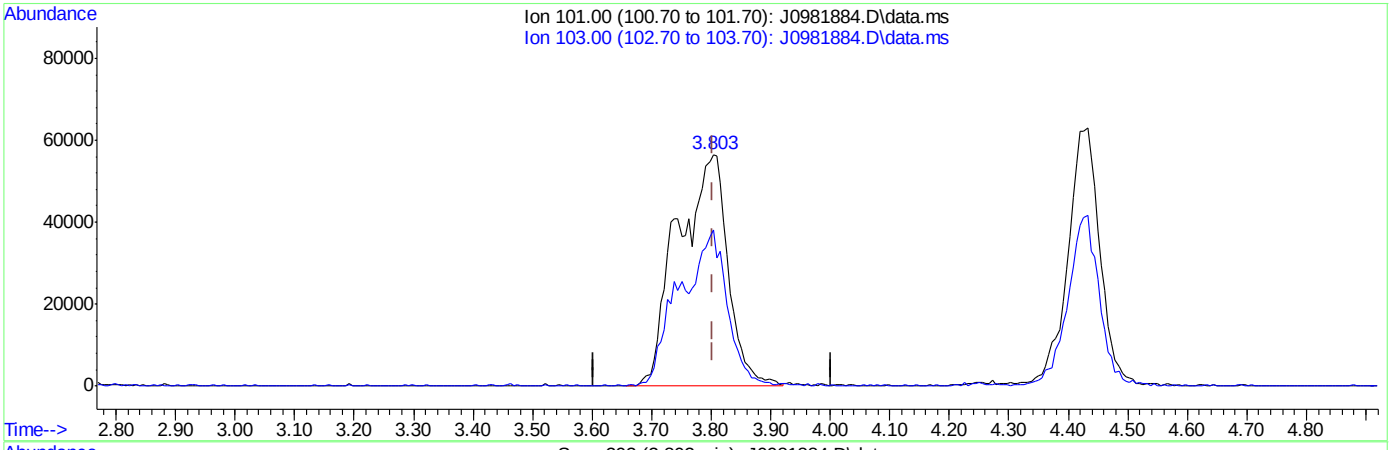
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.07
0.00	0.00	0.00
0.00	0.00	0.00

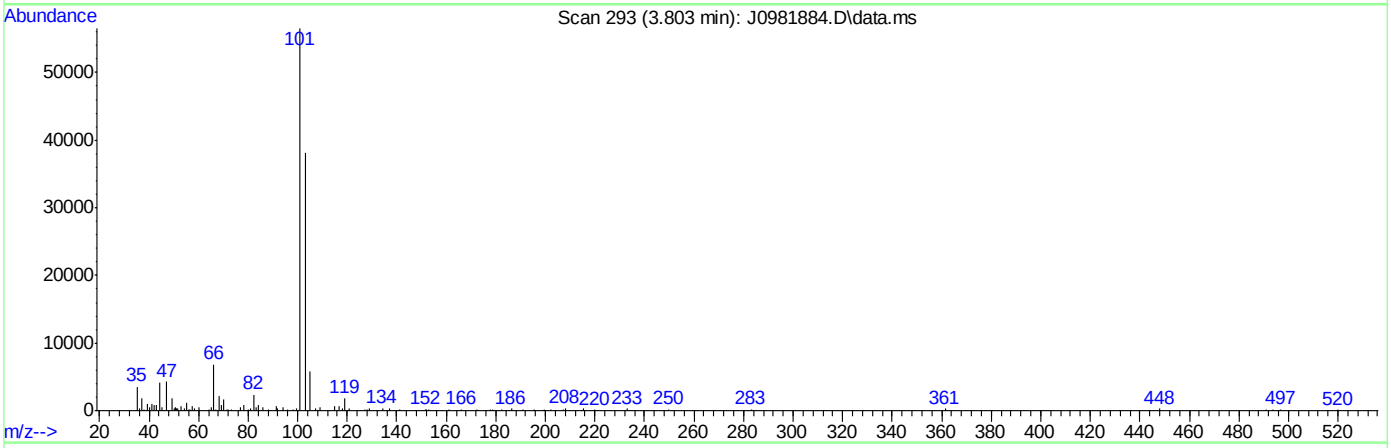
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 06:58:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 06:58:04 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 43.40ug/L m

response 331115

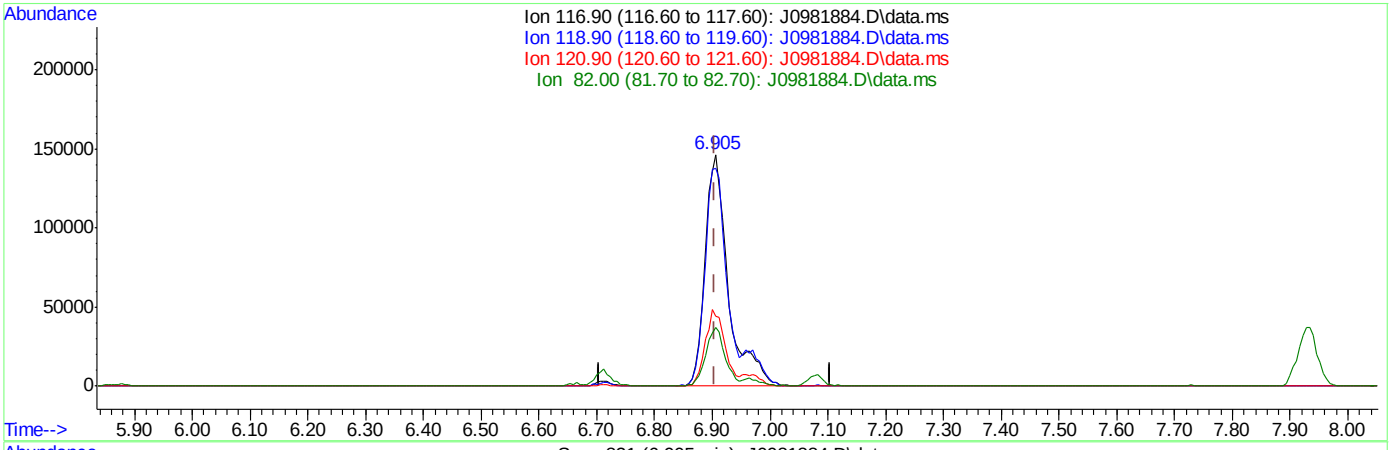
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.53
0.00	0.00	0.00
0.00	0.00	0.00

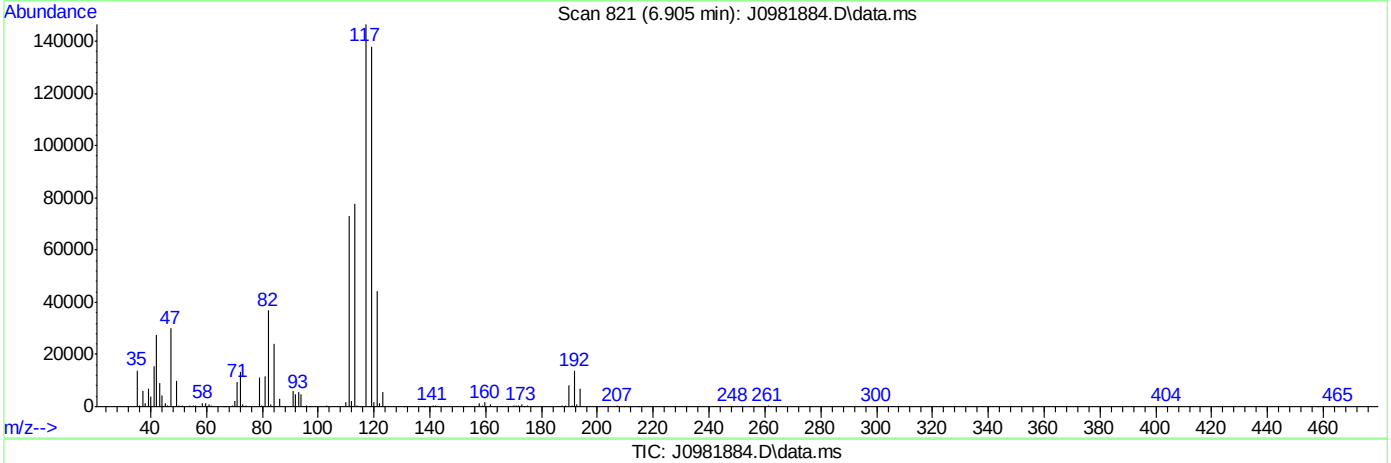
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 06:58:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 06:58:04 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 53.00ug/L

response 416425

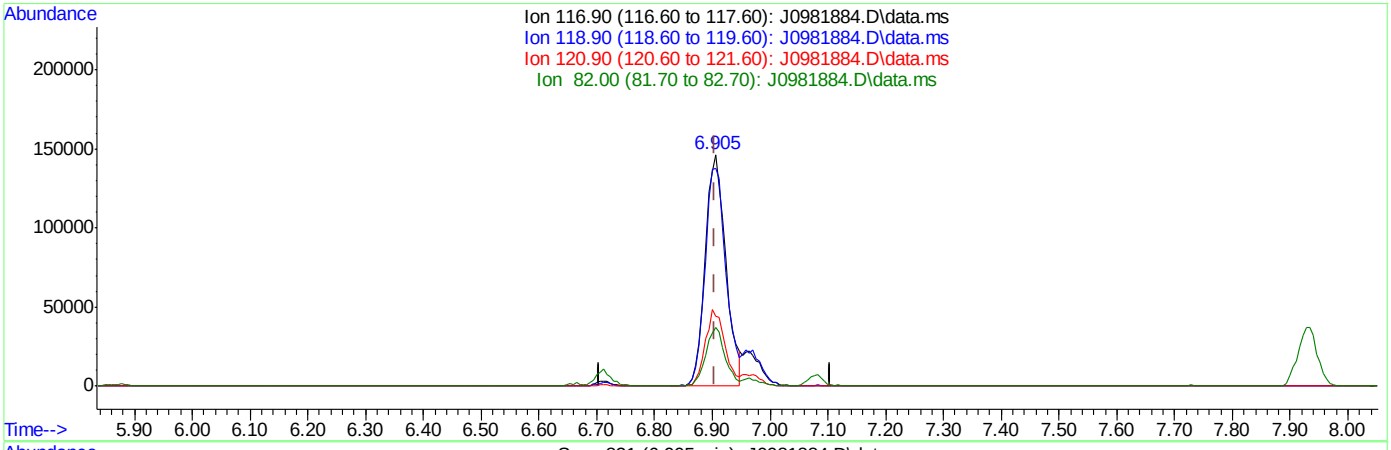
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

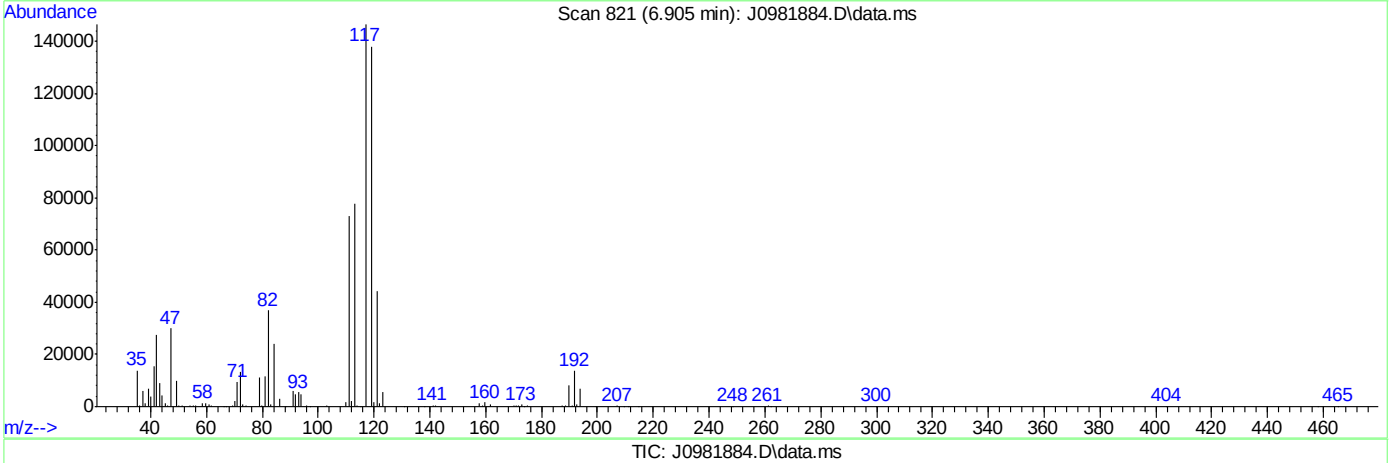
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 06:58:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 06:58:04 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 46.62ug/L m

response 366286

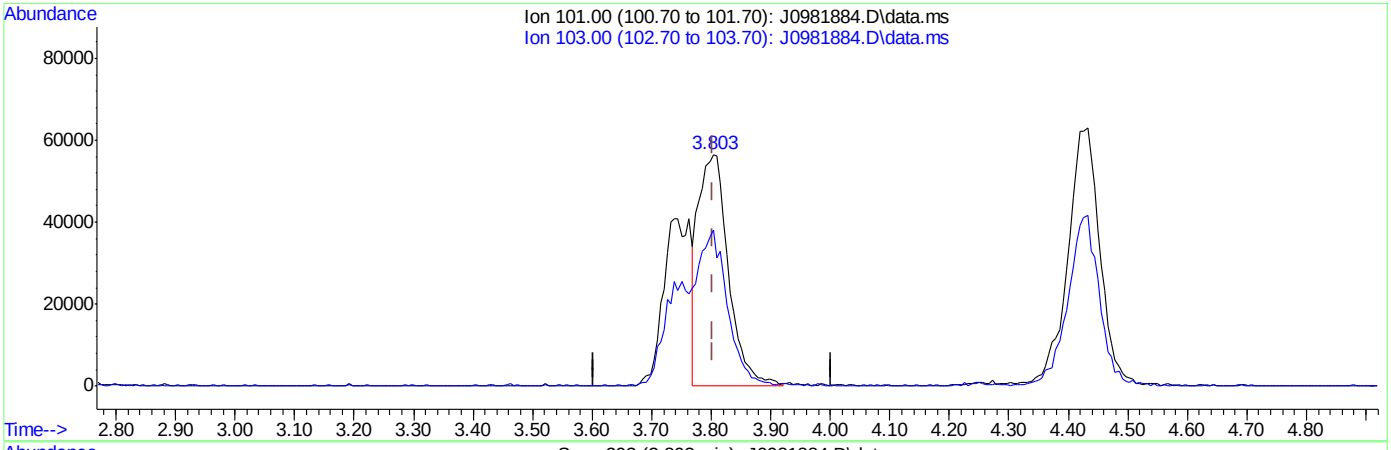
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

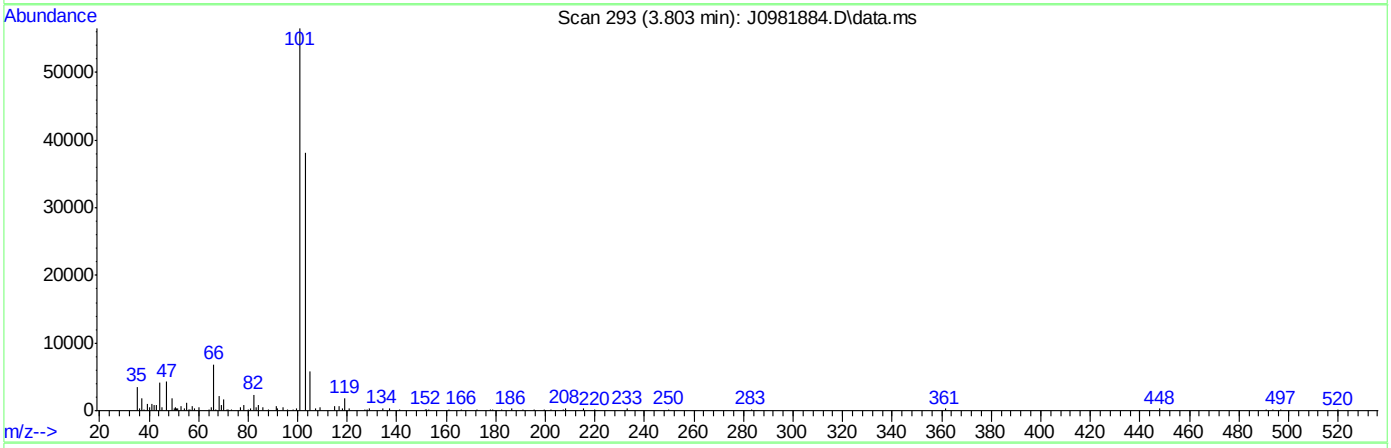
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:42:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 25.98ug/L

response 199489

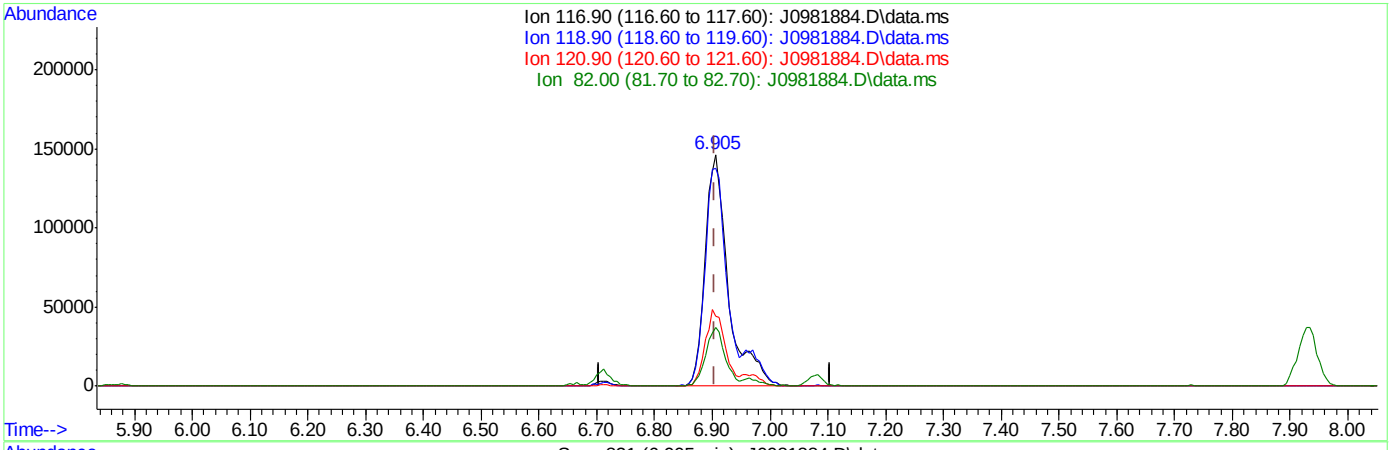
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.07
0.00	0.00	0.00
0.00	0.00	0.00

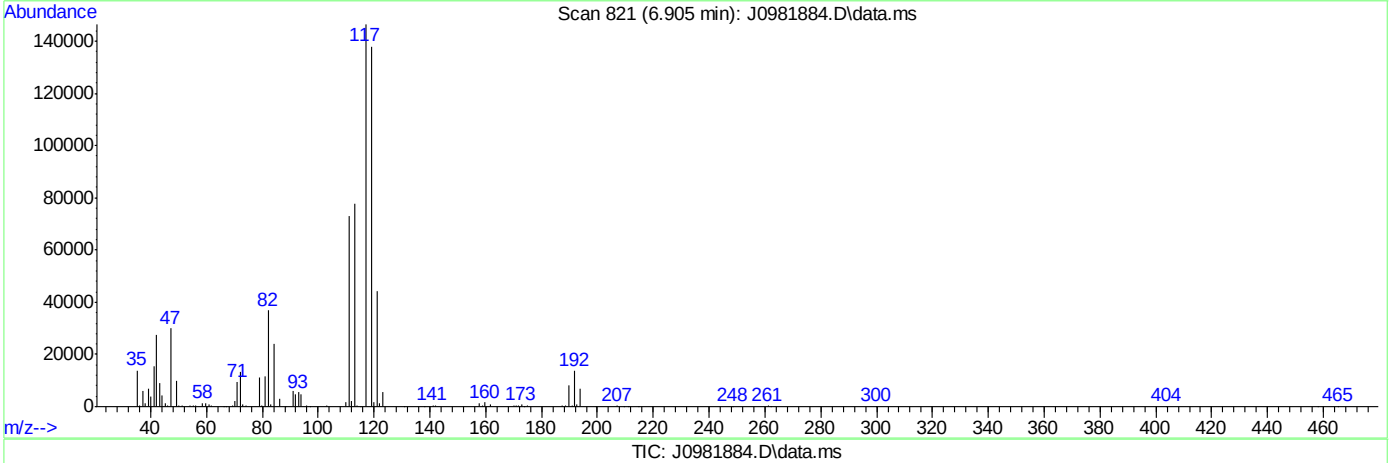
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:42:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 53.00ug/L

response 416425

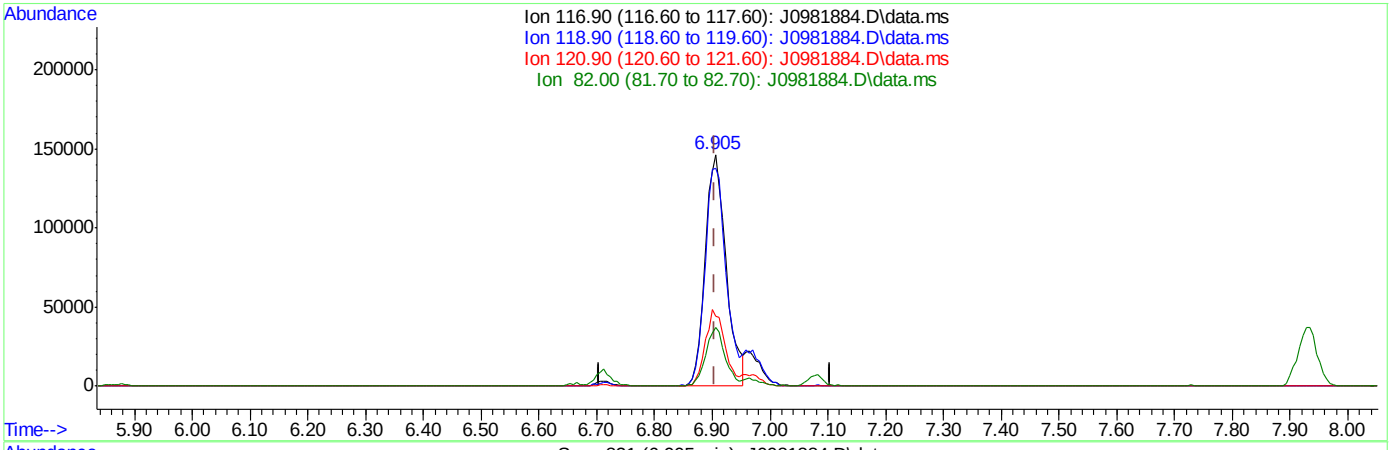
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

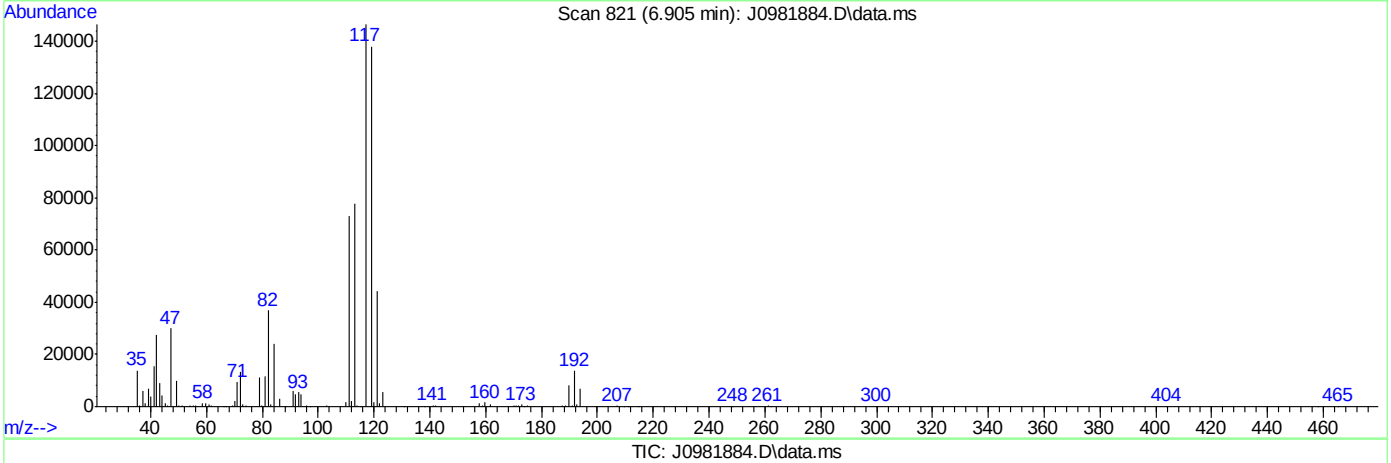
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:42:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 47.50ug/L m

response 373194

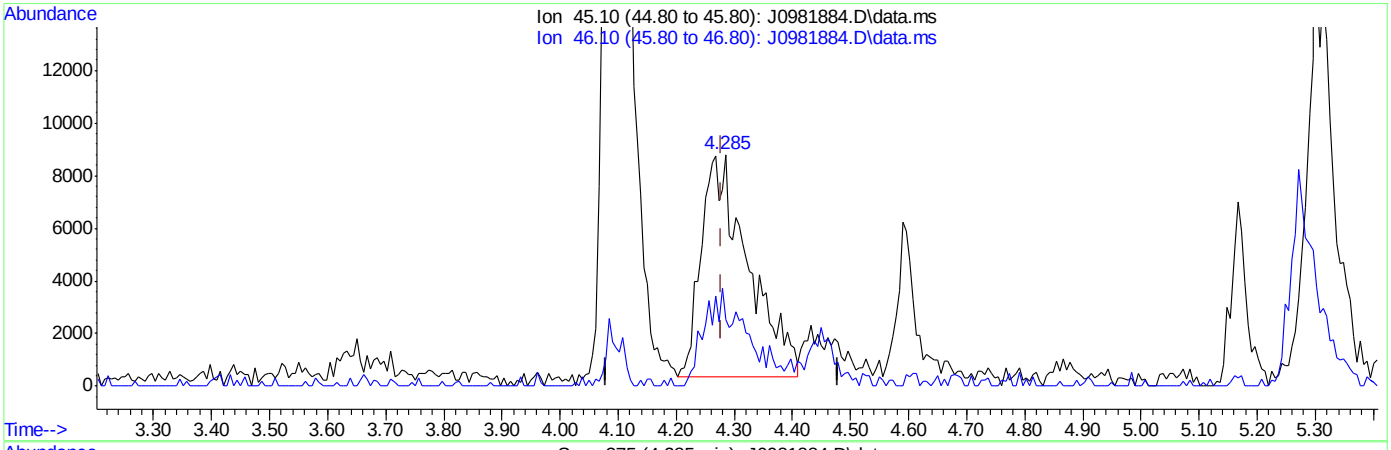
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

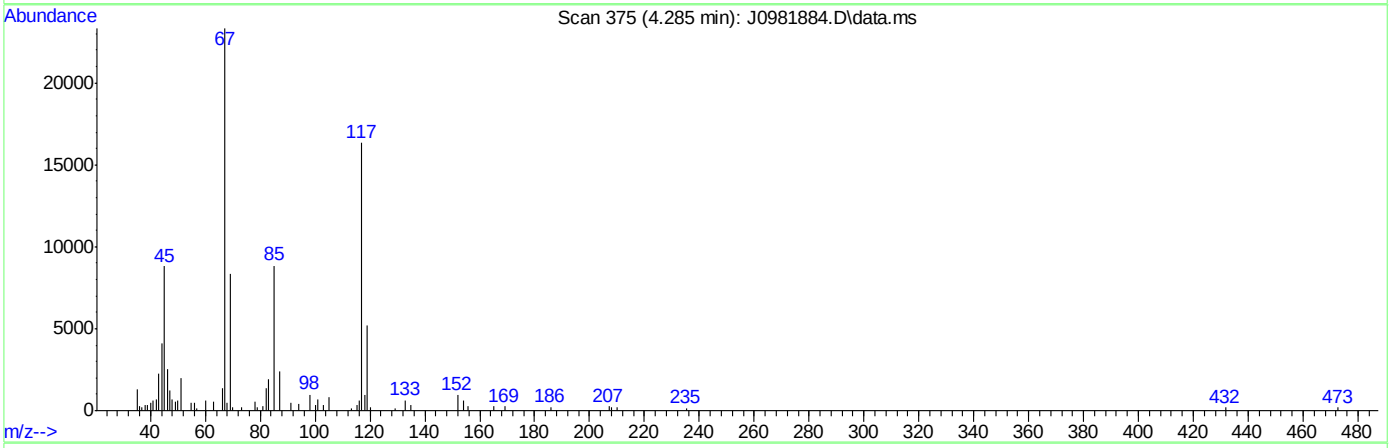
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:42:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 803.30ug/L

response 47066

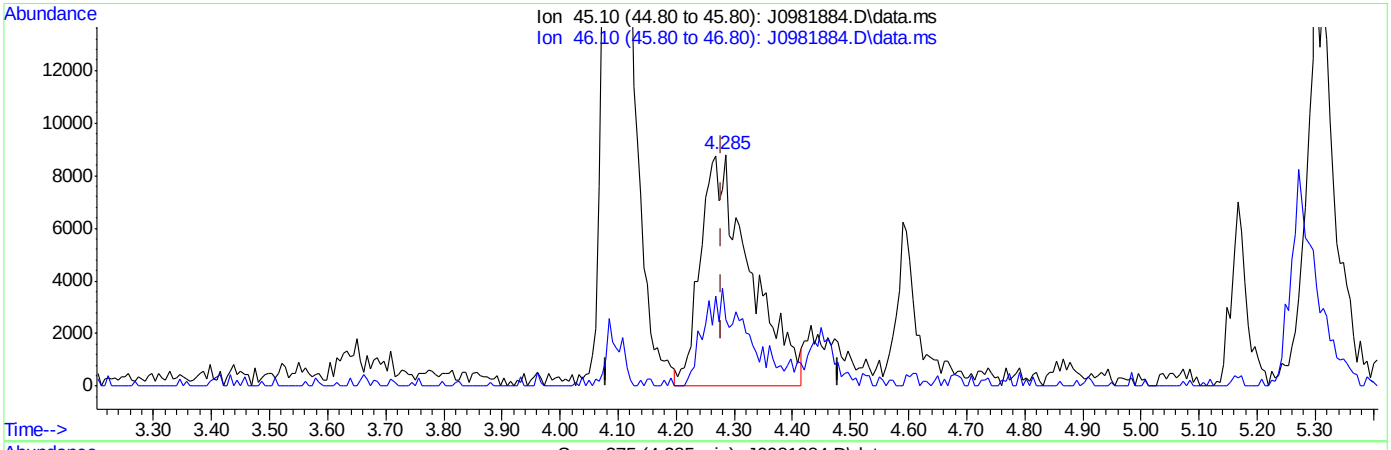
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	30.20
0.00	0.00	0.00
0.00	0.00	0.00

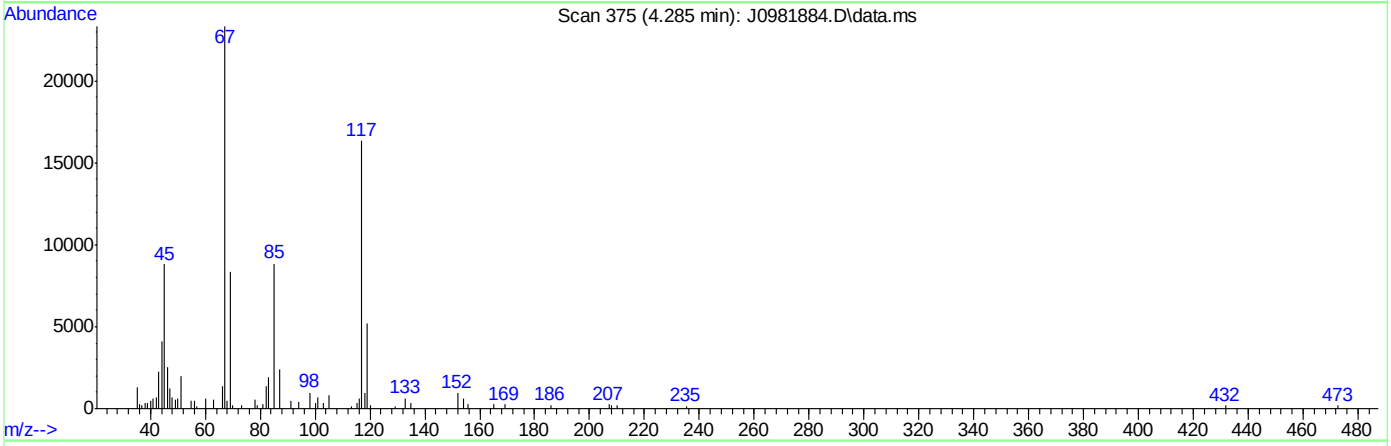
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:42:26 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 890.80ug/L m

response 52195

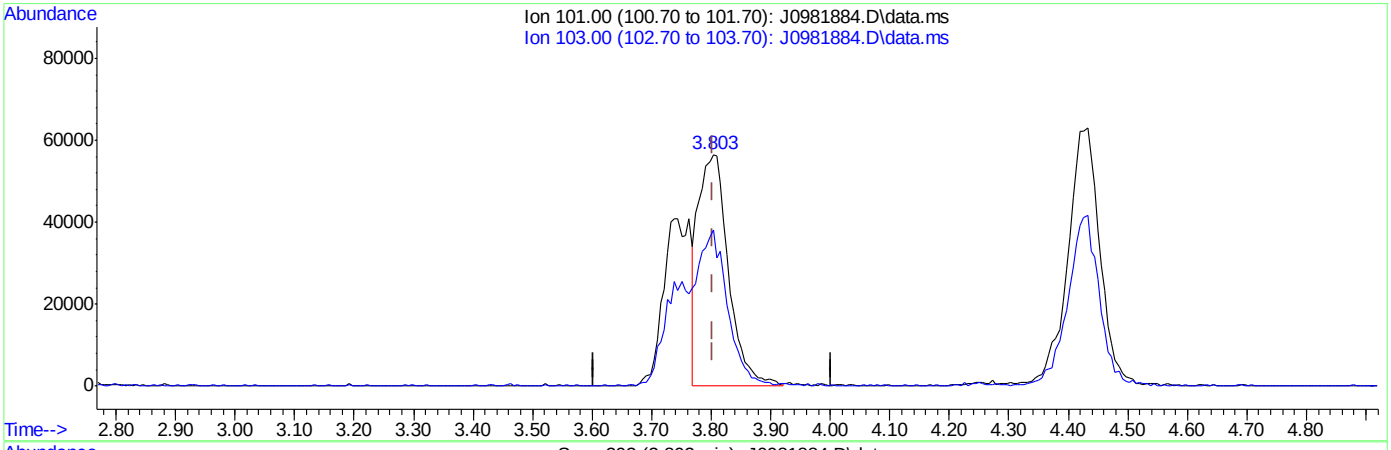
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	28.95
0.00	0.00	0.00
0.00	0.00	0.00

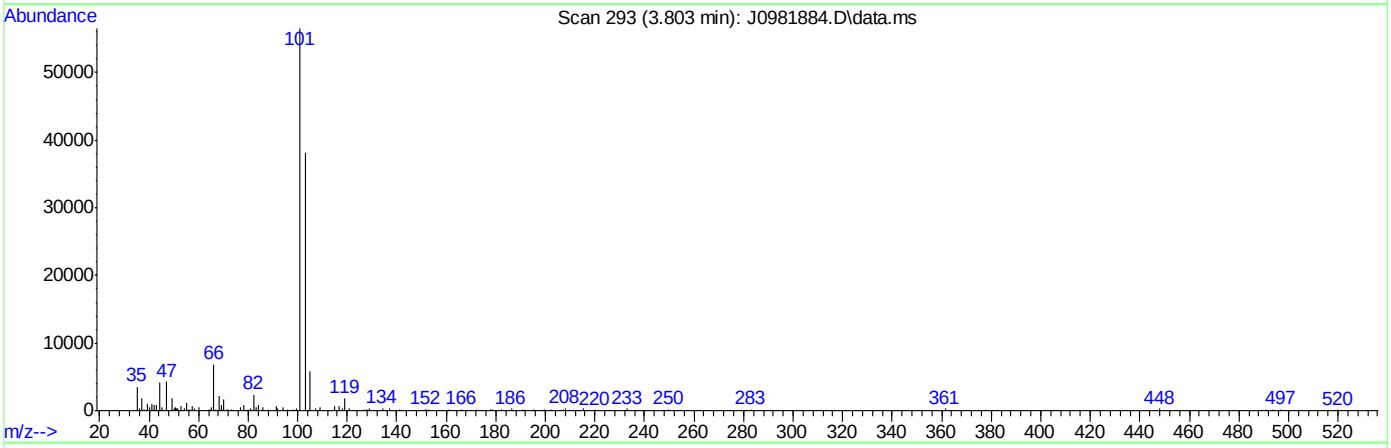
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 25.98ug/L

response 199489

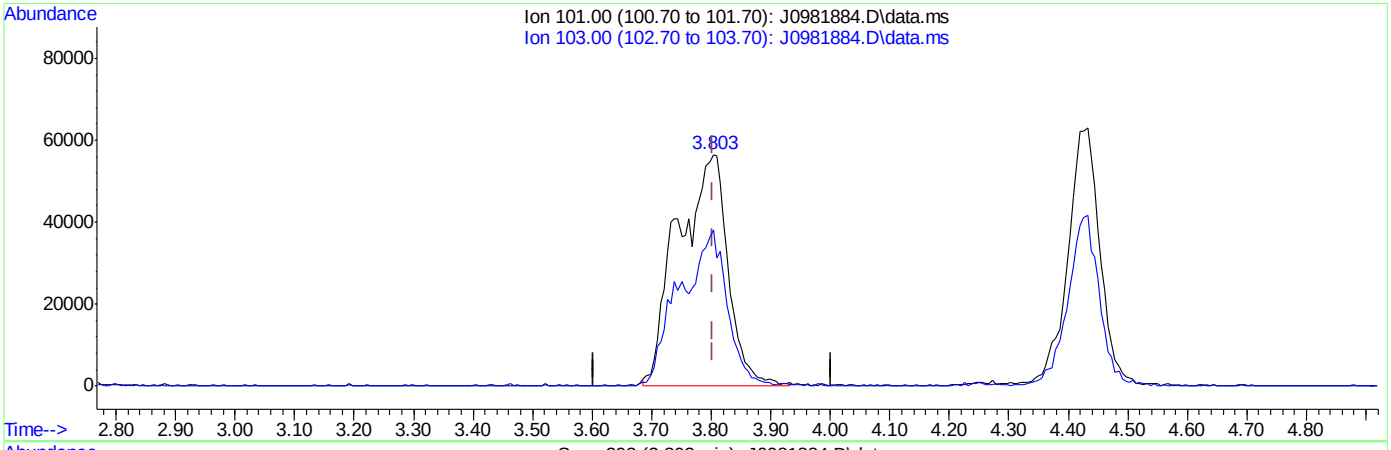
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.07
0.00	0.00	0.00
0.00	0.00	0.00

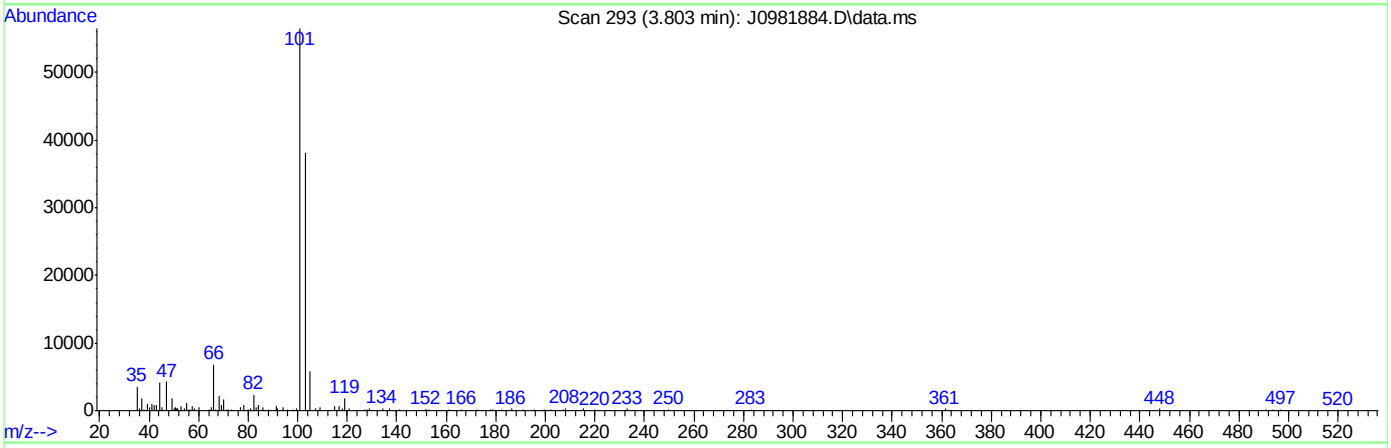
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 43.08ug/L m

response 330829

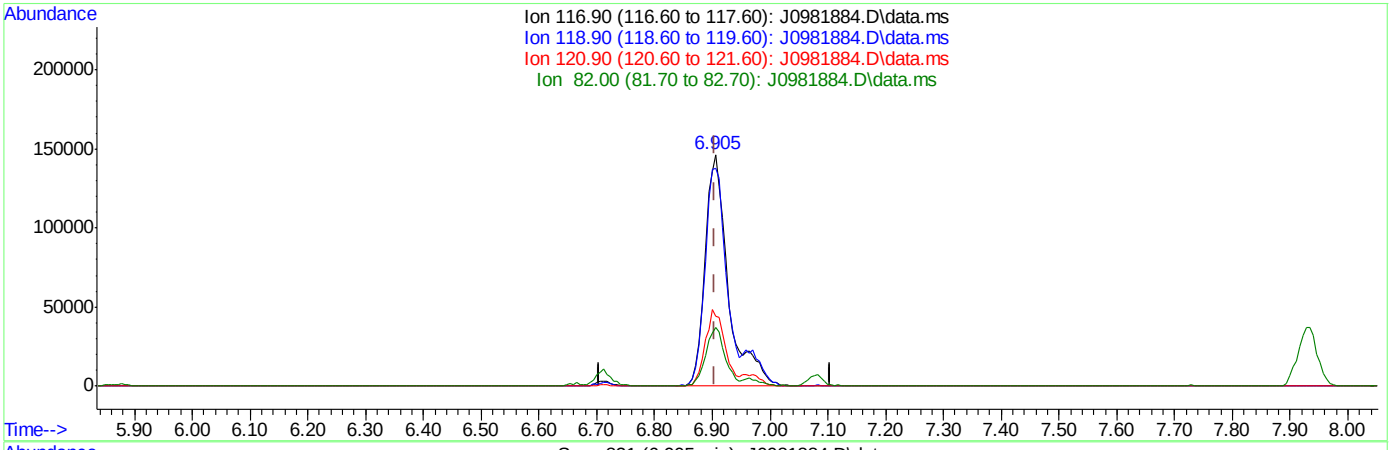
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.53
0.00	0.00	0.00
0.00	0.00	0.00

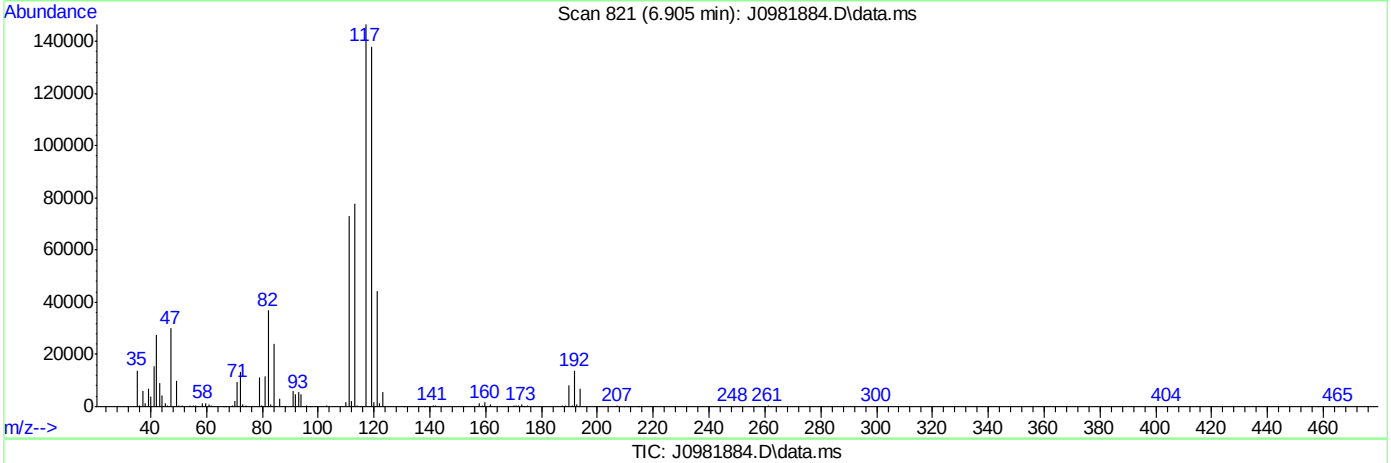
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 53.00ug/L

response 416425

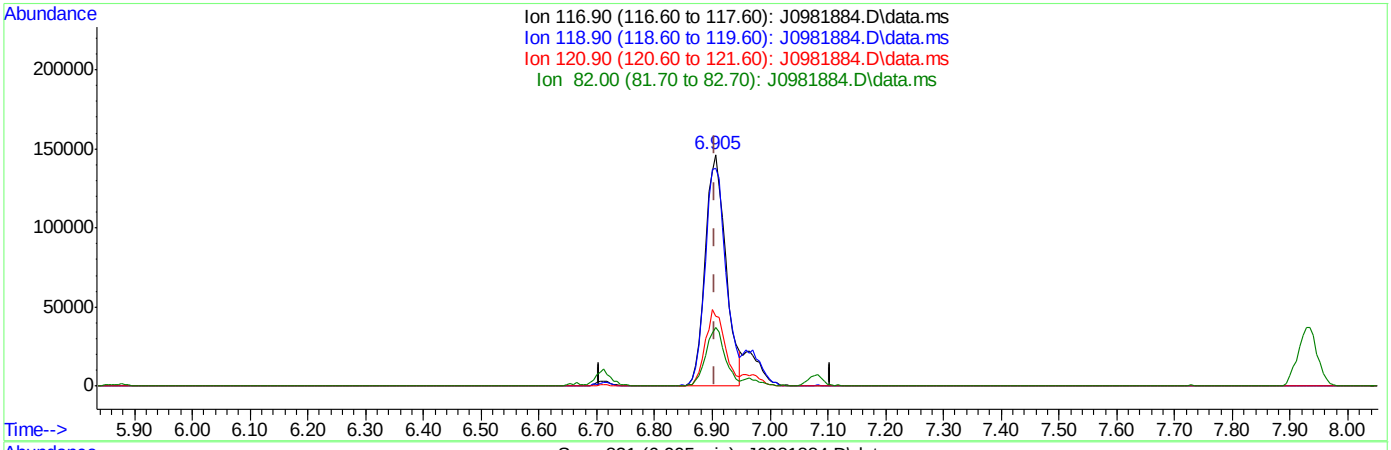
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

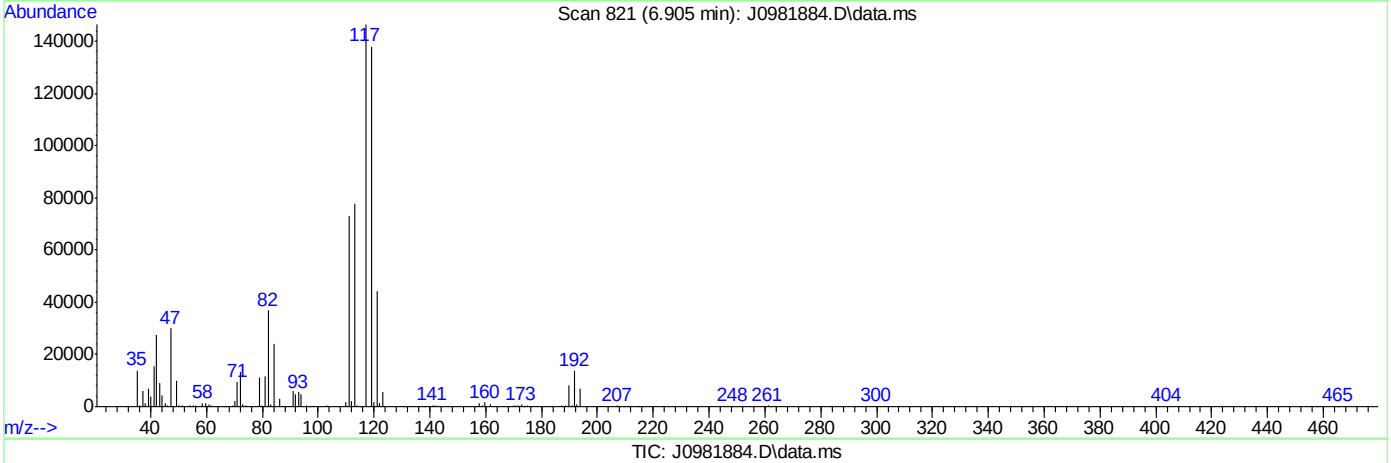
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 46.62ug/L m

response 366286

Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
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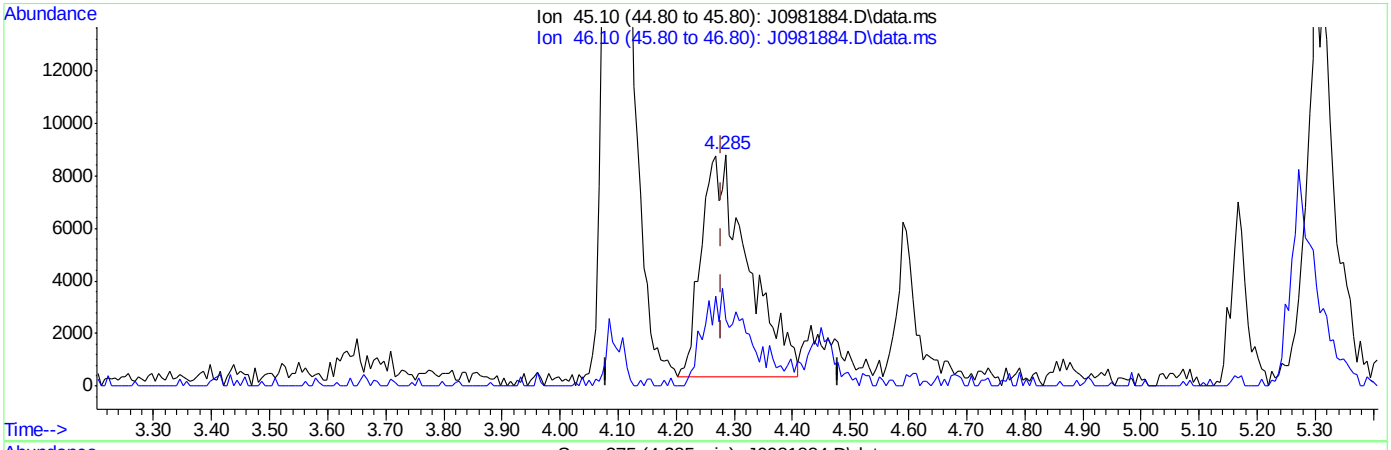
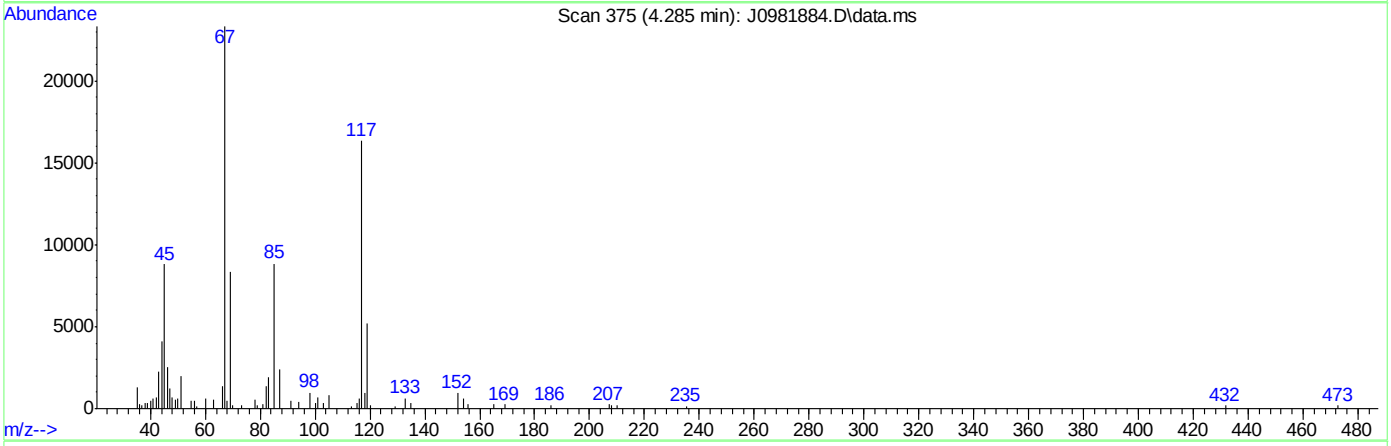
Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 803.30ug/L

response 47066

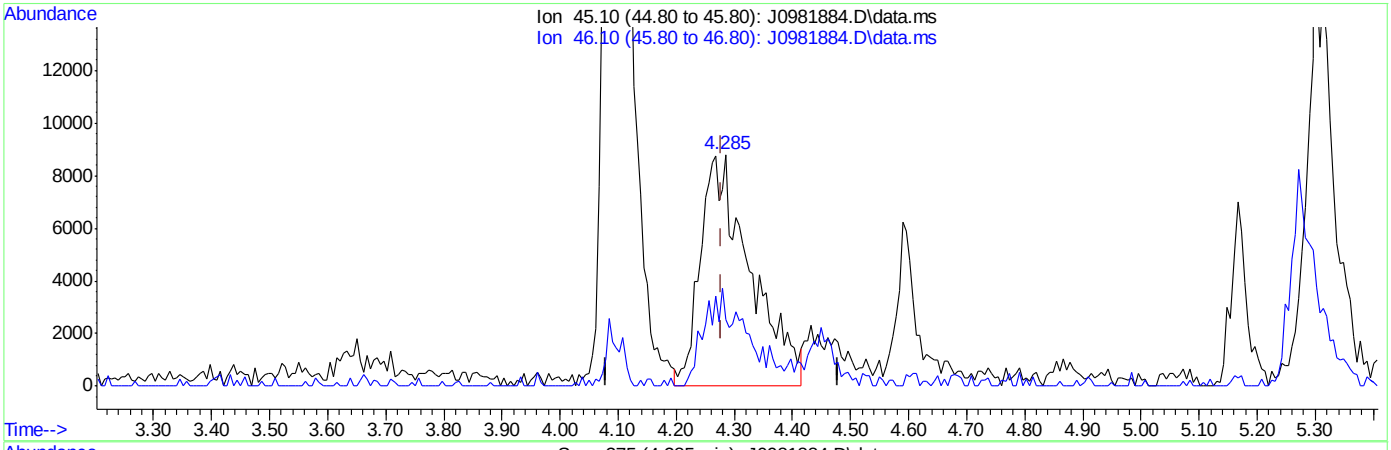
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	30.20
0.00	0.00	0.00
0.00	0.00	0.00

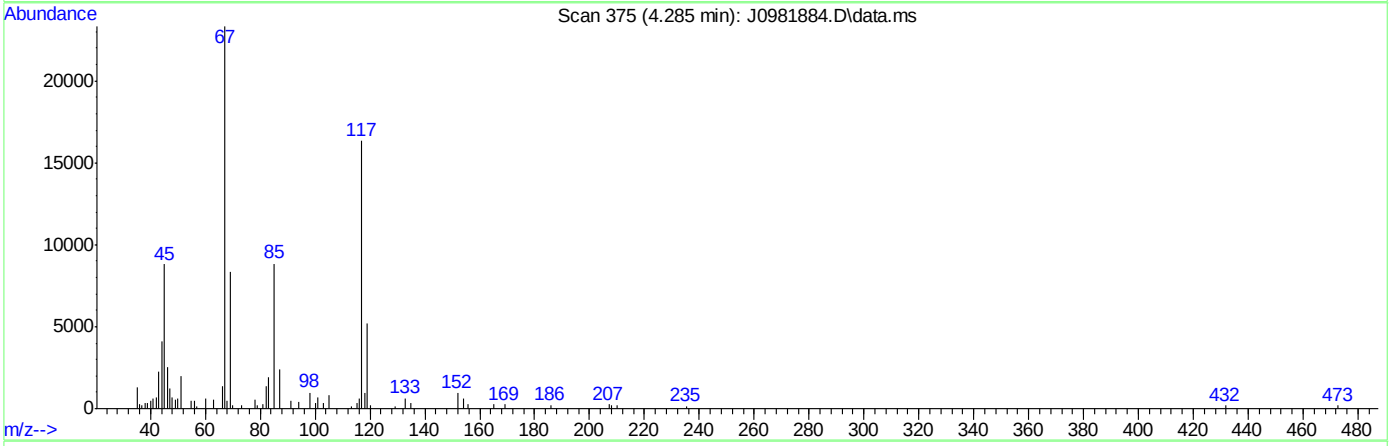
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:51:16 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:51:05 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 890.80ug/L m

response 52195

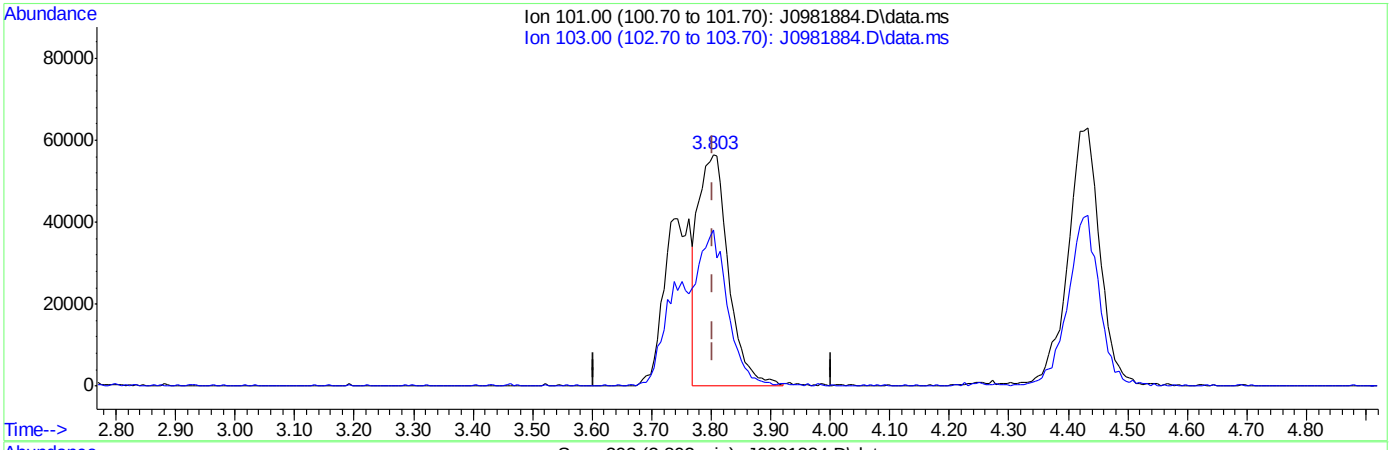
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	28.95
0.00	0.00	0.00
0.00	0.00	0.00

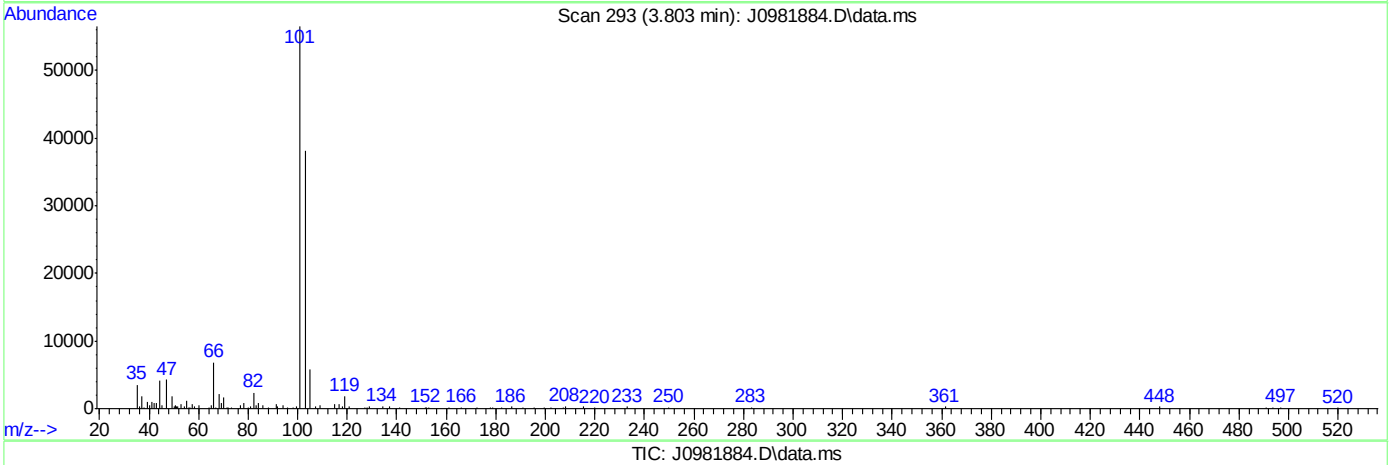
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 25.98ug/L

response 199489

Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.07
0.00	0.00	0.00
0.00	0.00	0.00

7.6.8.17

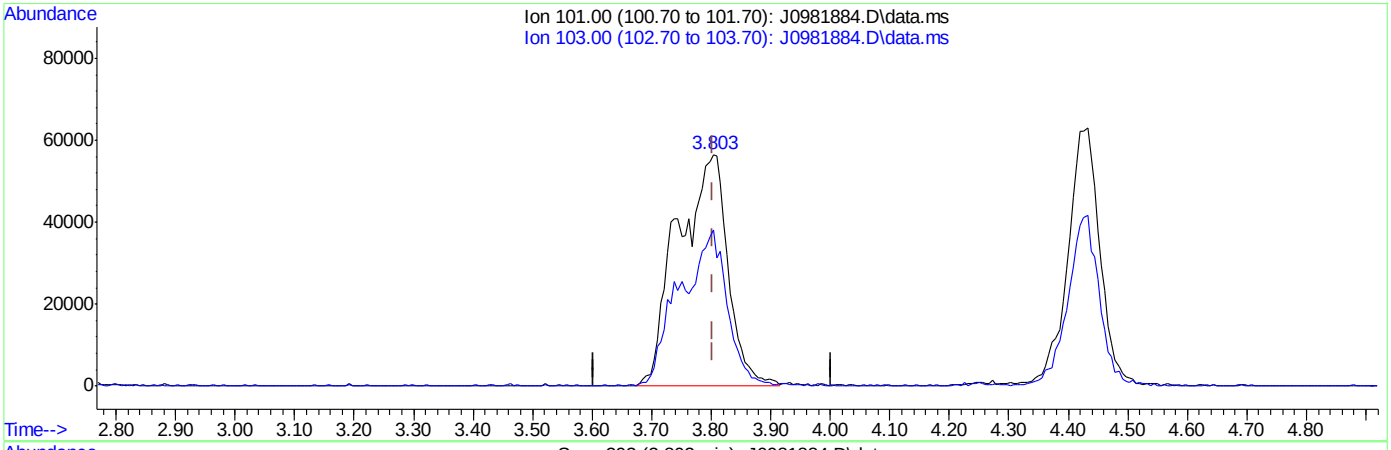
7

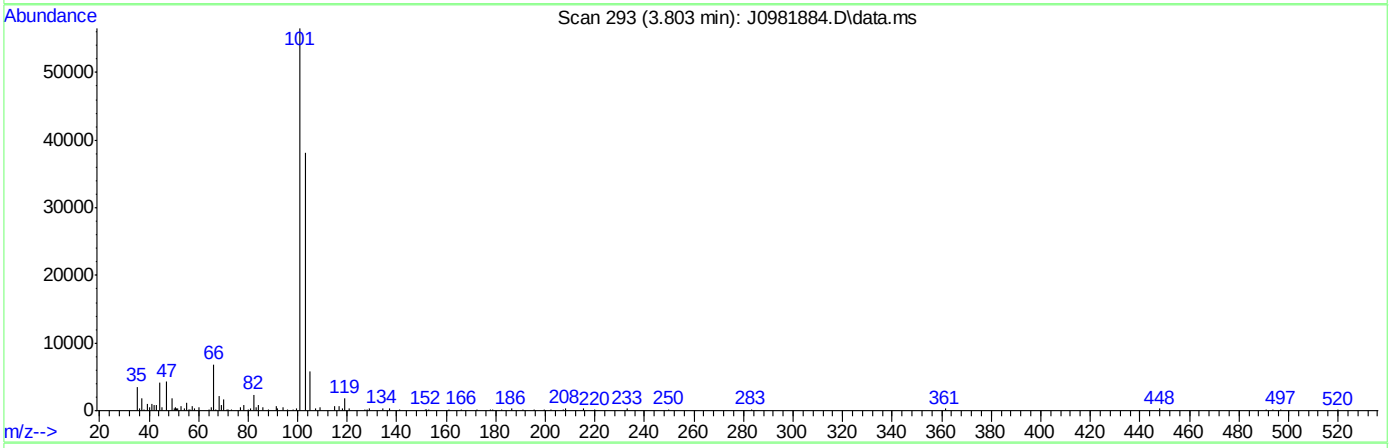
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 43.09ug/L m

response 330857

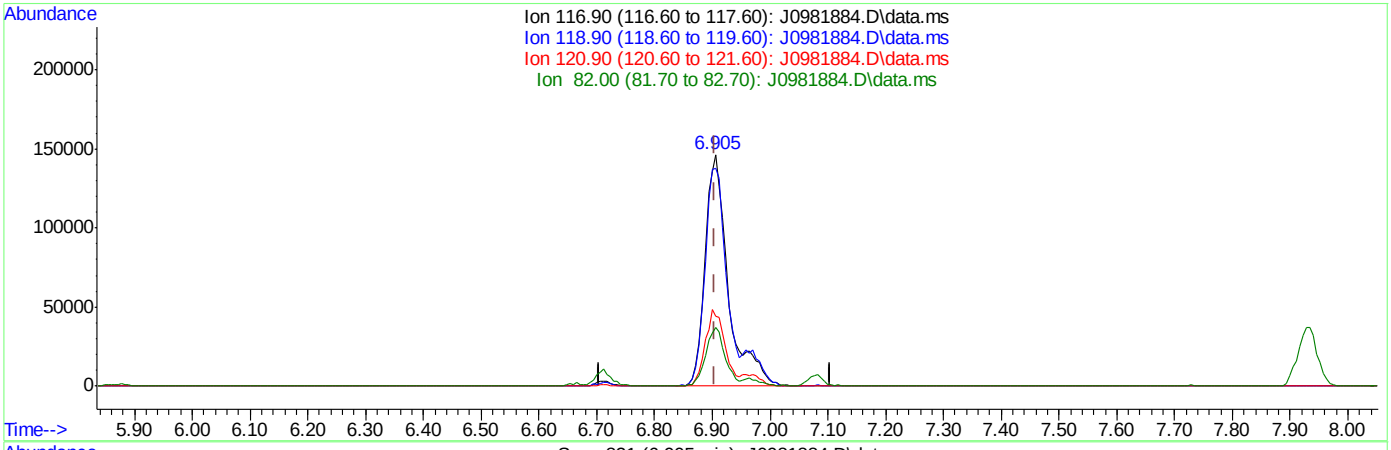
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	67.53
0.00	0.00	0.00
0.00	0.00	0.00

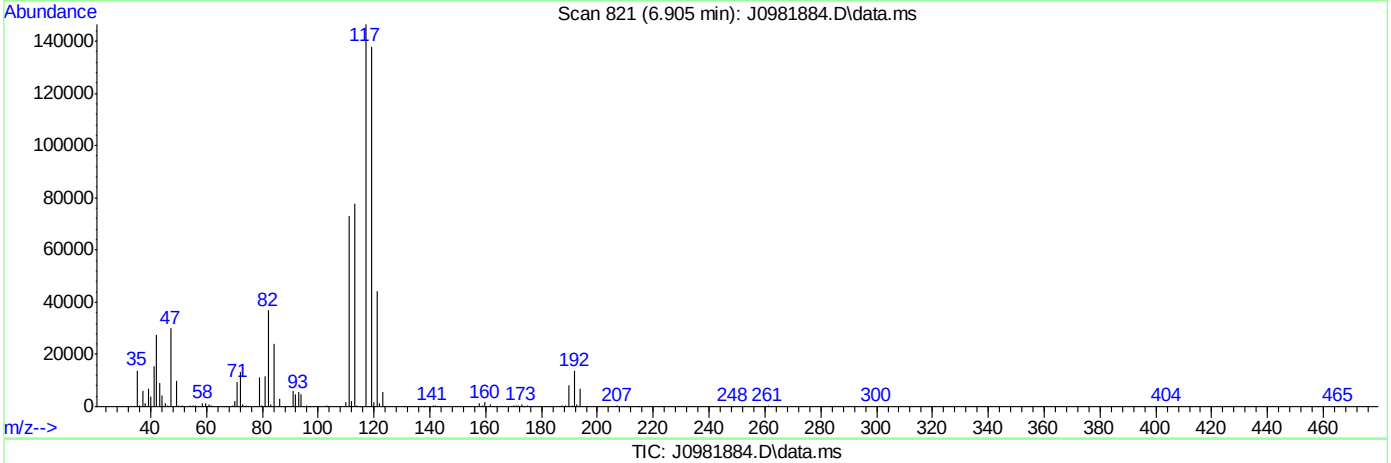
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 53.00ug/L

response 416425

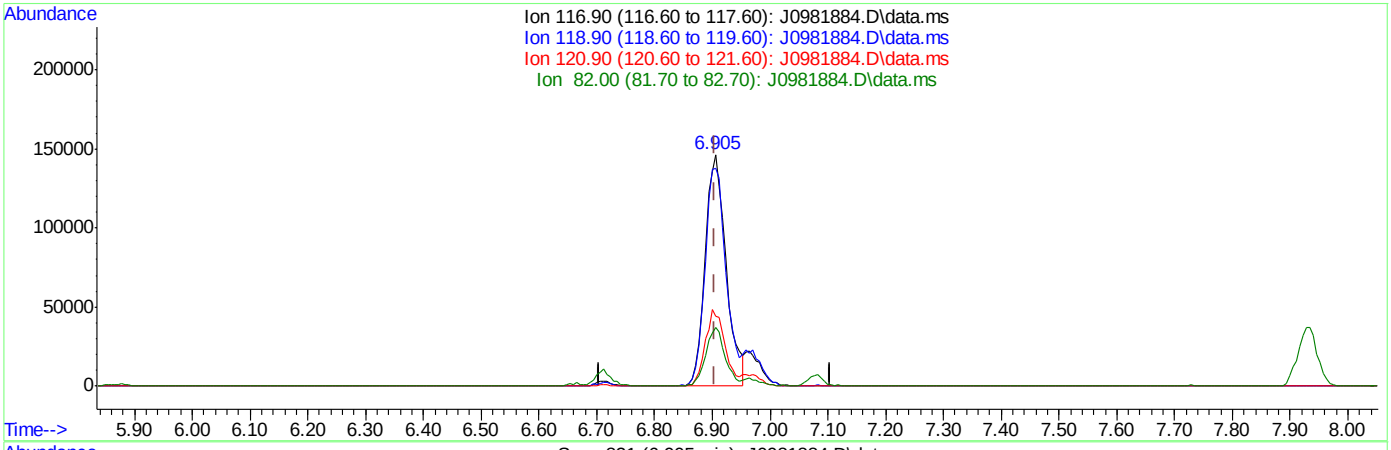
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

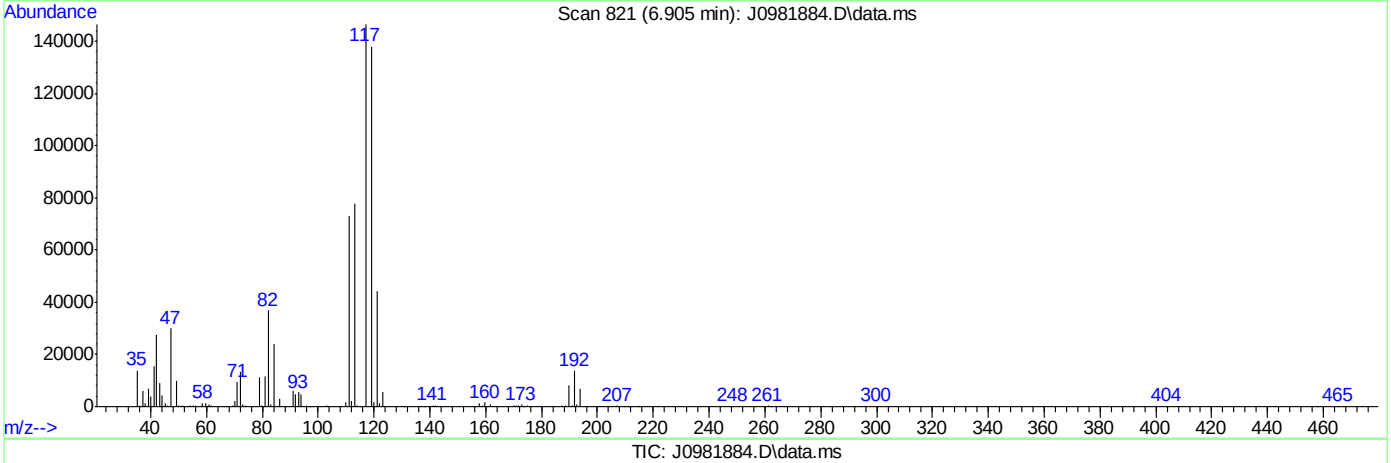
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 47.46ug/L m

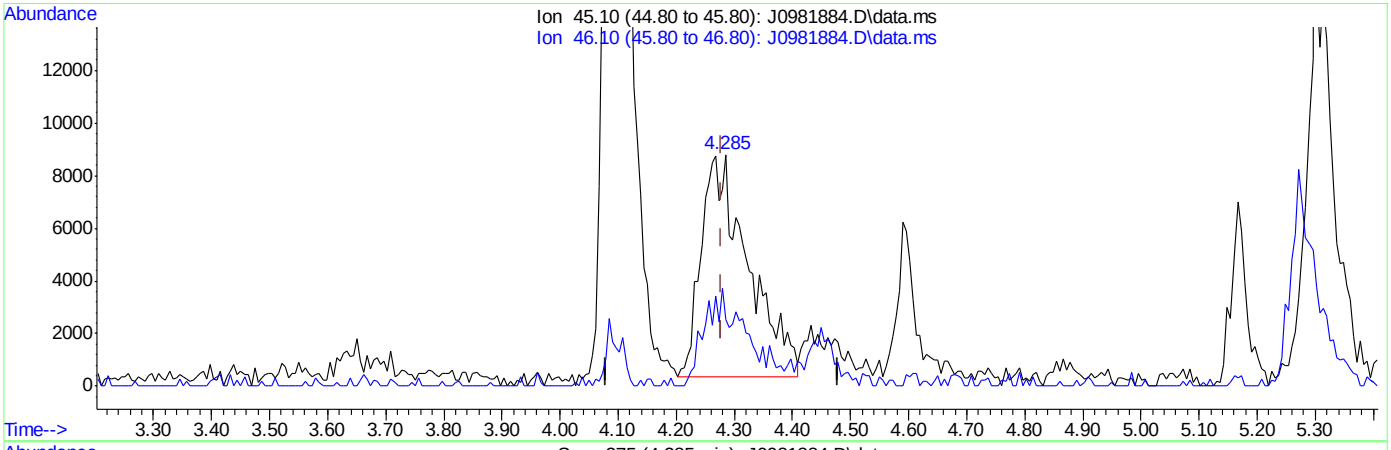
response 372892

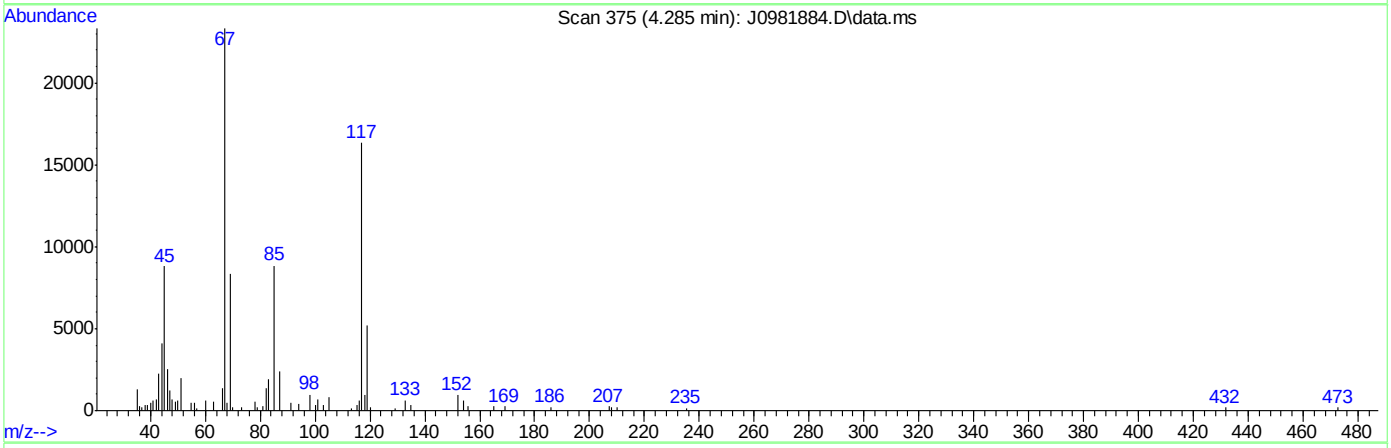
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	94.06
120.90	30.80	30.23
82.00	23.30	25.18

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 803.30ug/L

response 47066

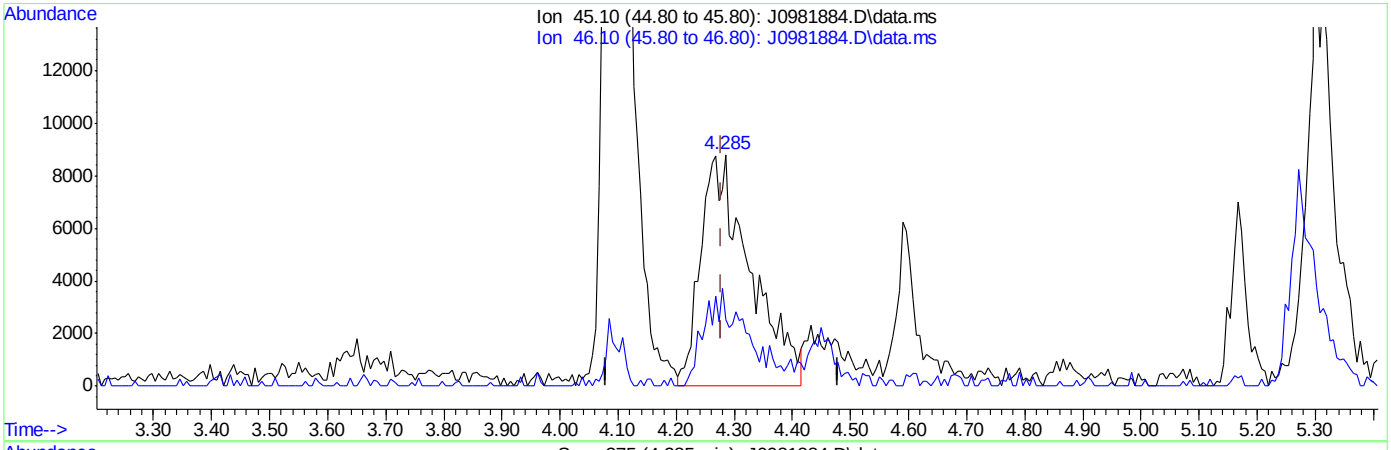
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	30.20
0.00	0.00	0.00
0.00	0.00	0.00

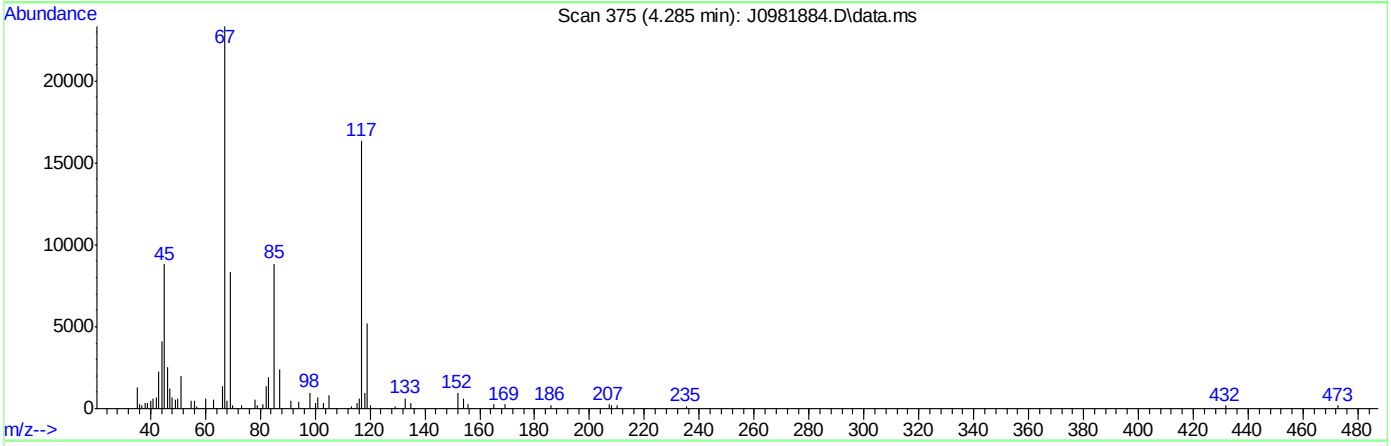
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\123016\
Data File : J0981884.D
Acq On : 30 Dec 2016 3:58 pm
Operator : melissam
Sample : ICV5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 09:59:37 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981884.D\data.ms

(107) Ethanol

4.285min (+0.006) 888.58ug/L m

response 52065

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	28.95
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/04/17 11:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:53:38 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	742866	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	531185	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	290691	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	94854	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	171424	48.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.76%			
46) 1,2-Dichloroethane-d4	7.452	65	247248	52.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.86%			
57) Toluene-d8	9.279	98	686219	48.64	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.28%			
79) 4-Bromofluorobenzene	12.035	95	291171	50.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.651	85	316829	39.21	ug/L	99
3) Chloromethane	2.875	50	453235	38.72	ug/L	95
4) Vinyl Chloride	3.022	62	257941	36.29	ug/L	99
5) 1,3-Butadiene	3.016	54	170096	37.70	ug/L	94
6) Bromomethane	3.445	94	119985	31.30	ug/L	91
7) Chloroethane	3.591	64	90135	33.29	ug/L	85
8) Trichlorofluoromethane	3.815	101	330272m	38.23	ug/L	
9) Ethyl Ether	4.097	59	261374	41.46	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.326	67	319079	40.94	ug/L	97
11) 1,1-Dichloroethene	4.373	61	453553	41.84	ug/L	94
12) Freon 113	4.438	101	271949	41.30	ug/L	96
13) Carbon Disulfide	4.455	76	941999	41.63	ug/L	100
14) Iodomethane	4.567	142	458422	39.81	ug/L	94
15) Allyl chloride	4.902	41	559980	43.10	ug/L	97
16) Methylene Chloride	5.025	49	474914	41.56	ug/L	98
17) Acetone	5.043	58	136471	228.31	ug/L #	74
18) Methyl acetate	5.166	74	210741	223.98	ug/L	100
19) trans-1,2-Dichloroethene	5.207	61	427077	40.56	ug/L	97
20) Hexane	5.272	56	291585	42.87	ug/L	98
21) Methyl Tert Butyl Ether	5.313	73	877377	41.97	ug/L	97
22) Acetonitrile	5.566	40	250389	515.77	ug/L #	84
23) Di-isopropyl ether	5.689	45	1234187	43.94	ug/L	98
24) Chloroprene	5.848	53	496961	41.15	ug/L	97
25) 1,1-Dichloroethane	5.871	63	520262	41.30	ug/L	99
26) Acrylonitrile	5.901	53	592406	225.18	ug/L	96
27) ETBE	6.094	59	1110522	42.86	ug/L	97
28) Vinyl acetate	6.083	43	3544562	223.17	ug/L	98
29) cis-1,2-Dichloroethene	6.447	96	306826	39.45	ug/L	97
30) 2,2-Dichloropropane	6.576	77	463230	42.80	ug/L	99
31) Bromochloromethane	6.659	128	143512	40.23	ug/L #	88
32) Cyclohexane	6.705	56	591726	41.86	ug/L	95
33) Chloroform	6.711	83	502332	39.31	ug/L	93
34) Ethyl acetate	6.782	43	1474623	226.76	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:53:38 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.894	42	94407	44.20	ug/L	90
37)	Carbon Tetrachloride	6.905	117	363053m	41.07	ug/L	
38)	1,1,1-Trichloroethane	6.964	97	453790	40.58	ug/L	96
39)	2-Butanone	6.999	43	686089	220.08	ug/L	99
40)	1,1-Dichloropropene	7.082	75	373023	41.26	ug/L	97
41)	tert-Butyl Formate	7.164	59	3143854	423.35	ug/L	98
42)	Propionitrile	7.305	54	431639	444.27	ug/L	88
43)	Methacrylonitrile	7.334	41	1861852	465.99	ug/L	98
44)	Benzene	7.334	78	962586	40.60	ug/L	95
45)	TAME	7.411	73	915710	43.32	ug/L	99
47)	1,2-Dichloroethane	7.522	62	421201	42.98	ug/L	97
48)	Trichloroethene	7.910	95	281548	40.61	ug/L	96
49)	Methylcyclohexane	7.934	83	525343	42.33	ug/L	94
50)	Dibromomethane	8.333	93	182179	43.37	ug/L	99
51)	1,2-Dichloropropane	8.421	63	320208	43.43	ug/L	94
52)	Bromodichloromethane	8.468	83	383804	41.75	ug/L	99
53)	Methyl methacrylate	8.568	41	317574	46.99	ug/L	95
54)	2-Chloroethyl vinyl ether	8.985	63	970331	221.78	ug/L	98
55)	cis-1,3-Dichloropropene	9.085	75	489368	43.41	ug/L	97
58)	Toluene	9.332	91	1071065	40.69	ug/L	99
59)	2-Nitropropane	9.532	41	387931	223.49	ug/L	97
60)	4-Methyl-2-pentanone	9.649	43	1523835	215.40	ug/L	98
61)	trans-1,3-Dichloropropene	9.714	75	417677	43.23	ug/L	93
62)	Tetrachloroethene	9.731	166	271694	33.95	ug/L	95
63)	Ethyl methacrylate	9.820	69	422551	46.21	ug/L	96
64)	1,1,2-Trichloroethane	9.878	83	213579	43.85	ug/L	98
65)	Dibromochloromethane	10.078	129	282599	43.27	ug/L	96
66)	1,3-Dichloropropane	10.160	76	452386	41.96	ug/L	96
67)	1,2-Dibromoethane	10.342	107	254273	41.85	ug/L	100
68)	2-hexanone	10.466	43	1094435	229.09	ug/L	96
69)	1-Chlorohexane	10.771	91	417614	42.72	ug/L	96
70)	Ethylbenzene	10.842	91	1194820	40.48	ug/L	100
71)	Chlorobenzene	10.842	112	742252	40.99	ug/L	98
72)	1,1,1,2-Tetrachloroethane	10.889	131	268787	40.26	ug/L	96
73)	m,p-Xylene	10.977	91	1917197	79.37	ug/L	97
74)	o-Xylene	11.418	91	1122567	41.47	ug/L	99
75)	Styrene	11.465	104	798719	42.72	ug/L	97
76)	Bromoform	11.523	173	191378	41.78	ug/L	98
77)	Isopropylbenzene	11.723	105	1303311	41.33	ug/L	99
80)	cis-1,4-Dichloro-2-butene	12.064	53	103325	44.37	ug/L	95
81)	n-Propylbenzene	12.140	91	1574087	40.79	ug/L	96
82)	Bromobenzene	12.164	156	323905	40.27	ug/L	100
83)	1,1,2,2-Tetrachloroethane	12.199	83	354605	42.04	ug/L	95
84)	1,3,5-Trimethylbenzene	12.323	105	1061759	41.51	ug/L	98
85)	2-Chlorotoluene	12.328	91	1059197	40.34	ug/L	99
86)	trans-1,4-Dichloro-2-B...	12.381	53	113057	44.08	ug/L	94
87)	1,2,3-Trichloropropane	12.364	110	95907	44.04	ug/L	94
88)	Cyclohexanone	12.428	55	80341	242.55	ug/L	99
89)	4-Chlorotoluene	12.499	91	1051281	41.96	ug/L	97
90)	a-Methyl Styrene	12.587	118	705458	44.18	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:53:38 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.663	91	663508	39.79	ug/L		96
92)	1,2,4-Trimethylbenzene	12.734	105	1032592	40.75	ug/L		100
93)	Pentachloroethane	12.716	167	230088	46.34	ug/L		96
94)	sec-Butylbenzene	12.845	105	1439390	41.48	ug/L		97
95)	4-Isopropyltoluene	12.981	119	1140248	41.69	ug/L		96
96)	1,3-Dichlorobenzene	13.116	146	690342	42.14	ug/L		95
97)	1,4-Dichlorobenzene	13.198	146	680636	40.03	ug/L		99
98)	n-Butylbenzene	13.415	92	708643	42.47	ug/L		87
99)	Benzyl Chloride	13.427	126	157504	45.61	ug/L	#	79
100)	1,2-Dichlorobenzene	13.627	146	678846	41.14	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.361	75	70484	42.22	ug/L		93
102)	Hexachlorobutadiene	14.908	225	258280	37.13	ug/L		98
103)	1,2,4-Trichlorobenzene	14.955	180	450455	38.50	ug/L		98
104)	Naphthalene	15.237	128	969348	42.81	ug/L		98
105)	1,2,3-Trichlorobenzene	15.407	180	422822	38.93	ug/L		99
107)	Ethanol	4.250	45	69339m	964.46	ug/L		
108)	acrolein	4.737	56	278756	211.40	ug/L		96
109)	Tert Butyl Alcohol	5.354	59	317001	394.42	ug/L		96
110)	tert Amyl alcohol	7.552	59	259926	416.50	ug/L		97
111)	Isobutyl alcohol	7.428	42	216960	860.64	ug/L	#	86
112)	1,4-Dioxane	8.650	88	55945	843.59	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.413	57	1368056	2111.94	ug/L		99

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

7.6.9

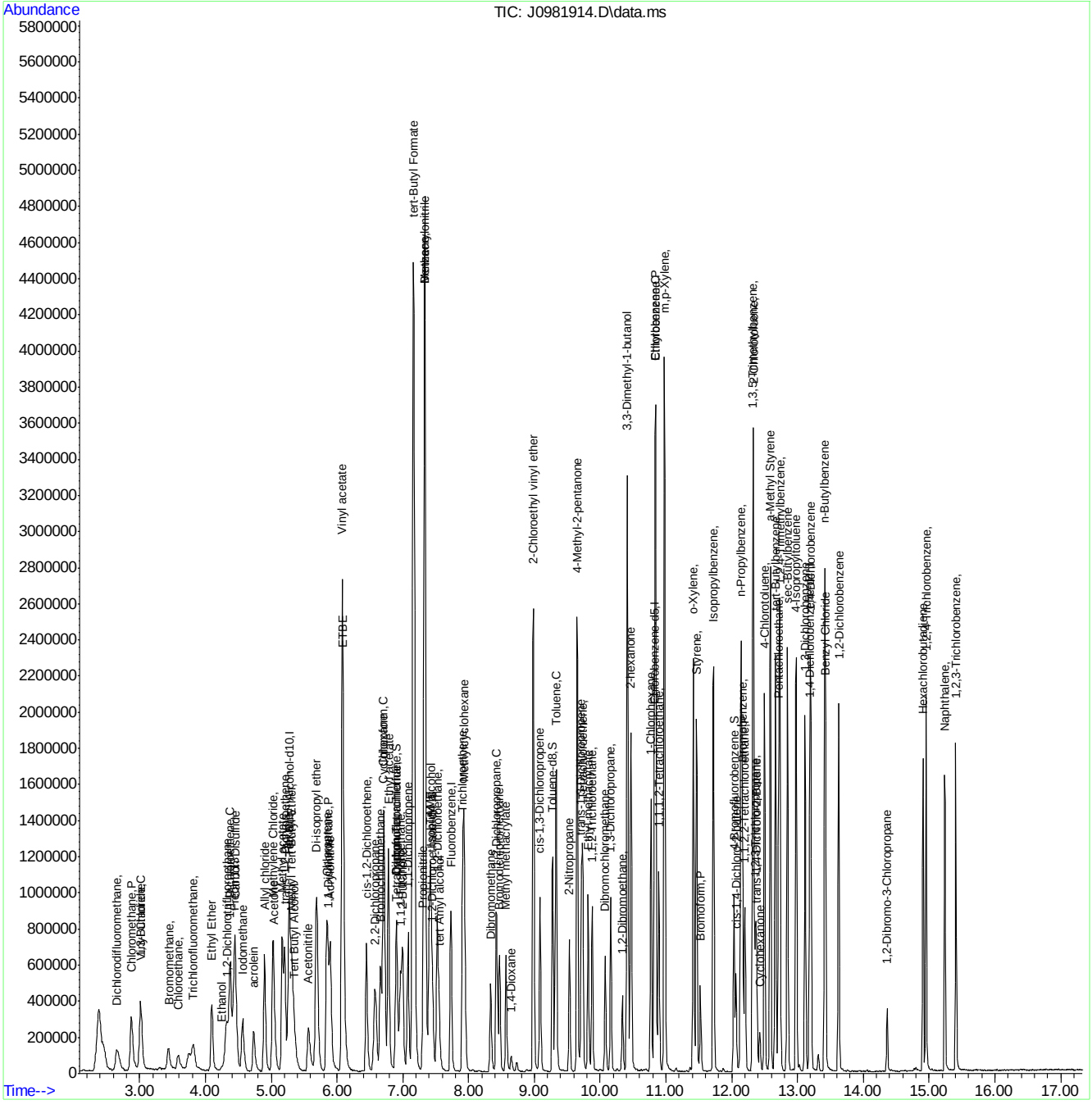
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:53:38 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

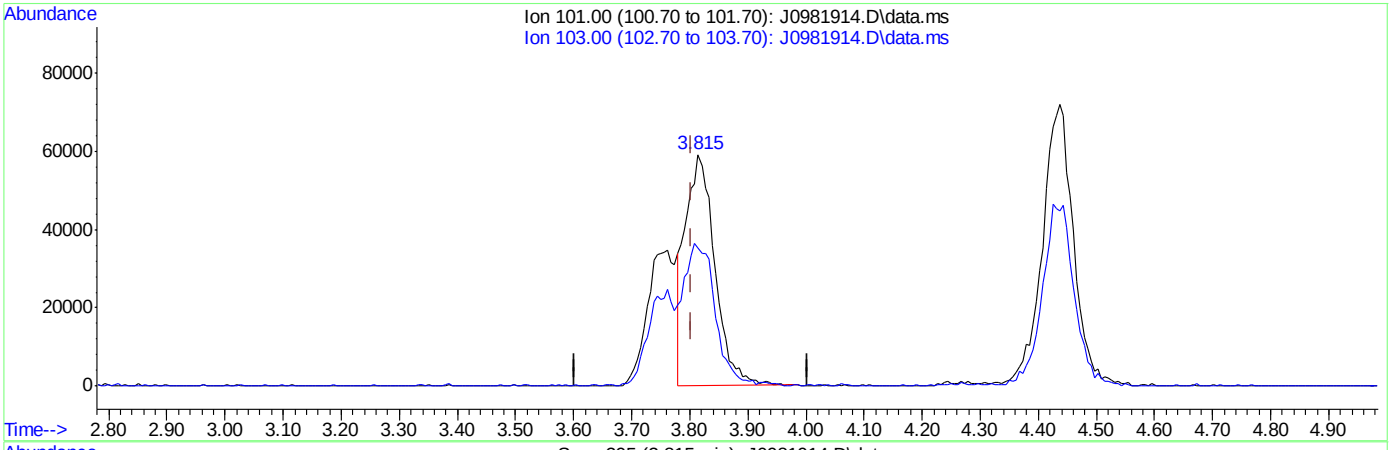
Sample Number:	VJ5530-CC5529	**Method:**	SW846 8260B
Lab FileID:	J0981914.D	**Analyst approved:**	01/03/17 10:58 Darshna Patel
Injection Time:	01/03/17 09:16	**Supervisor approved:**	01/04/17 11:16 Juan Garcia

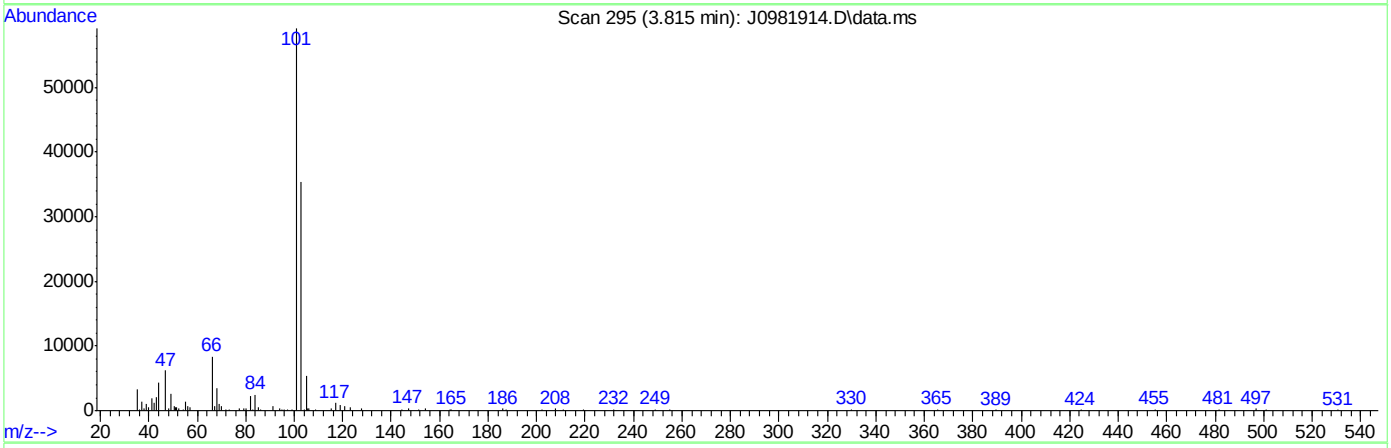
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.25	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(8) Trichlorofluoromethane ( )

3.815min (+0.012) 23.78ug/L

response 205469

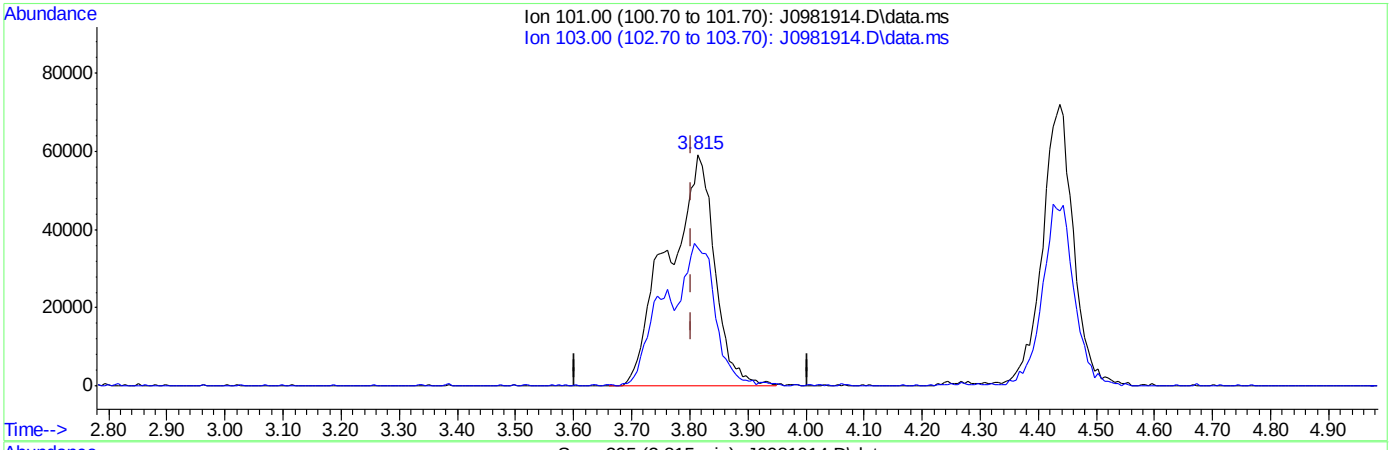
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	59.46
0.00	0.00	0.00
0.00	0.00	0.00

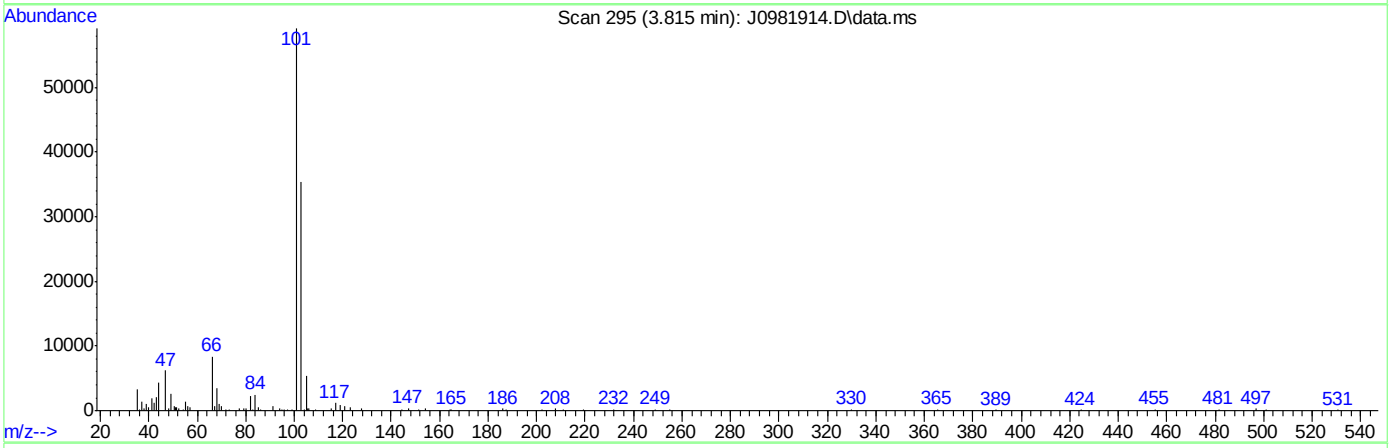
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(8) Trichlorofluoromethane ( )

3.815min (+0.012) 38.23ug/L m

response 330272

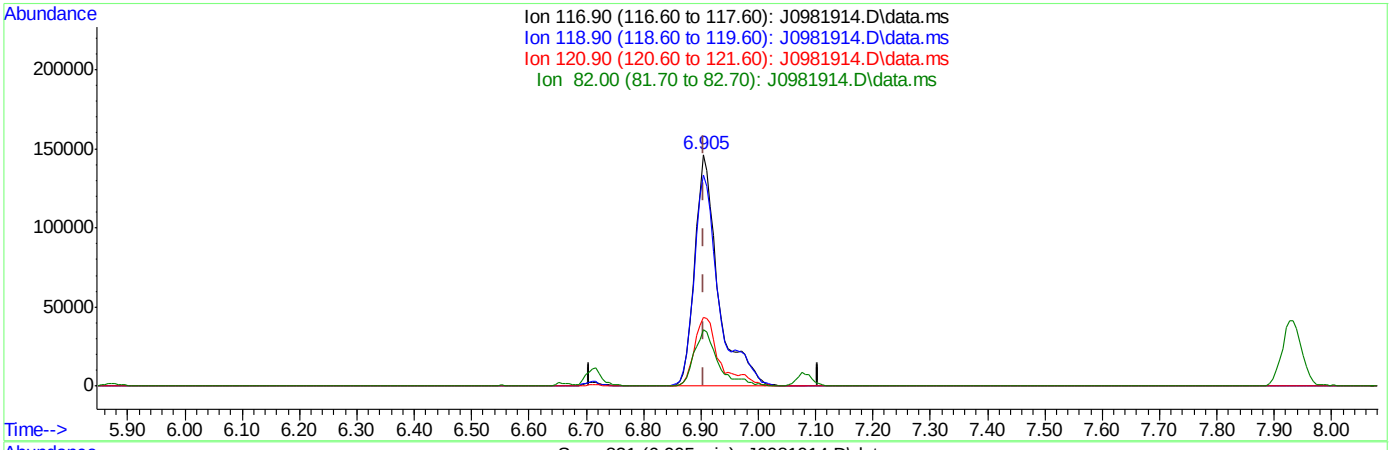
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	59.71
0.00	0.00	0.00
0.00	0.00	0.00

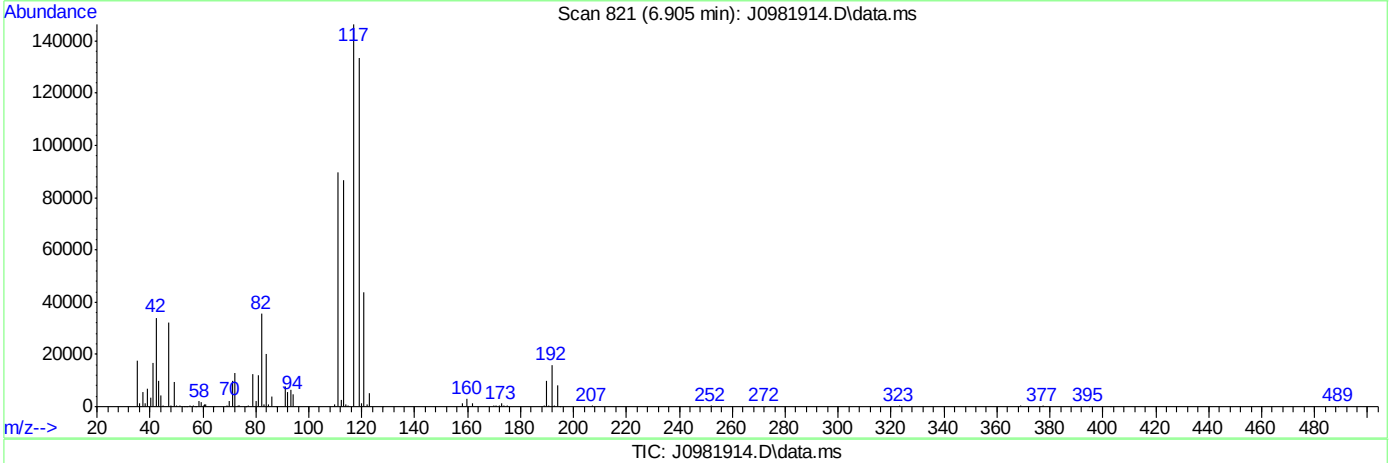
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 46.63ug/L

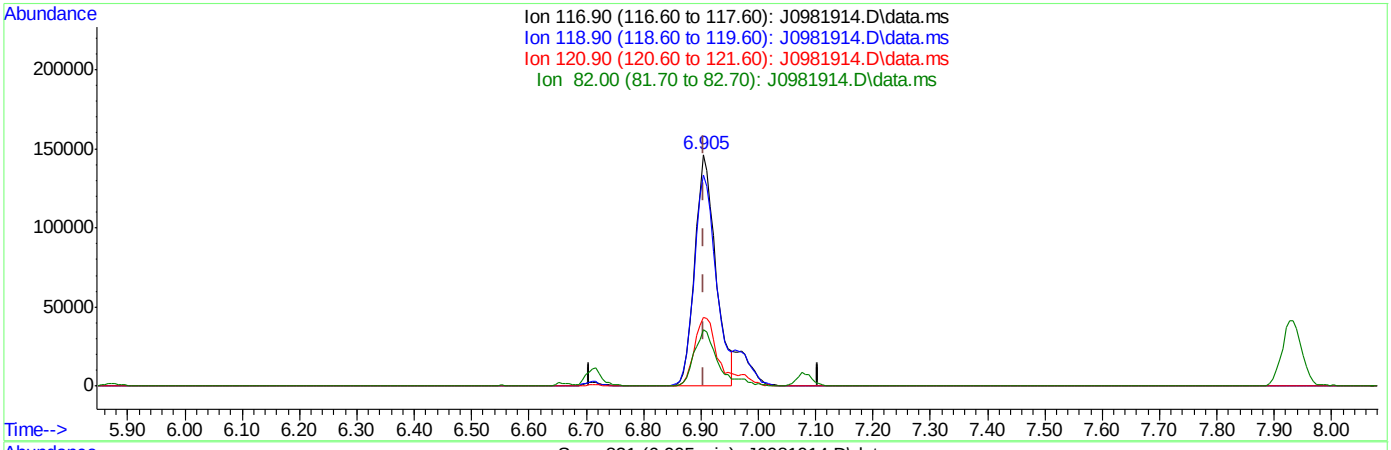
response 412225

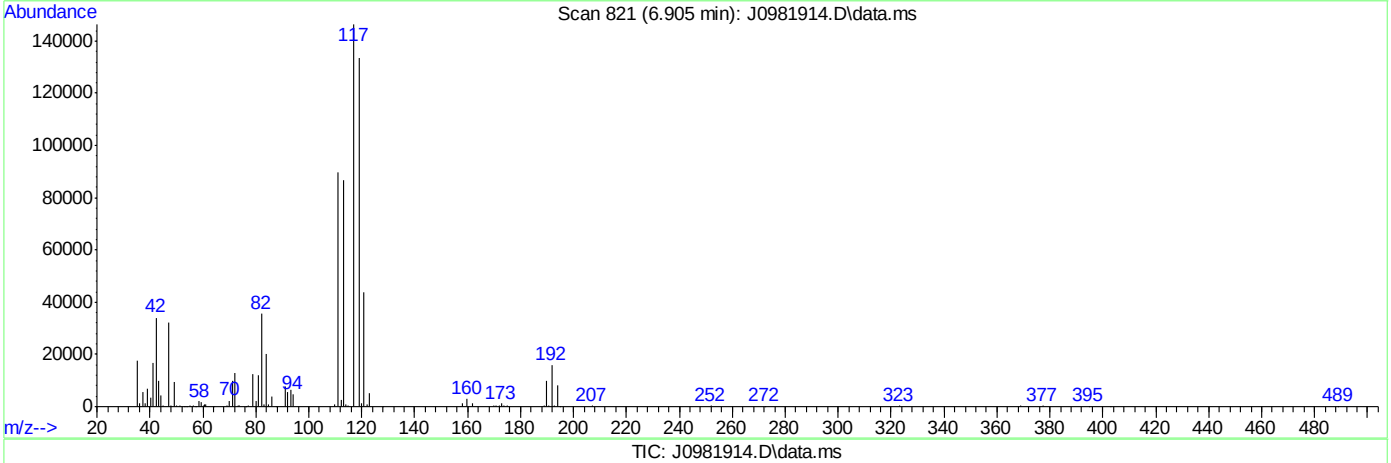
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	91.06
120.90	30.80	29.89
82.00	23.30	24.23

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 41.07ug/L m

response 363053

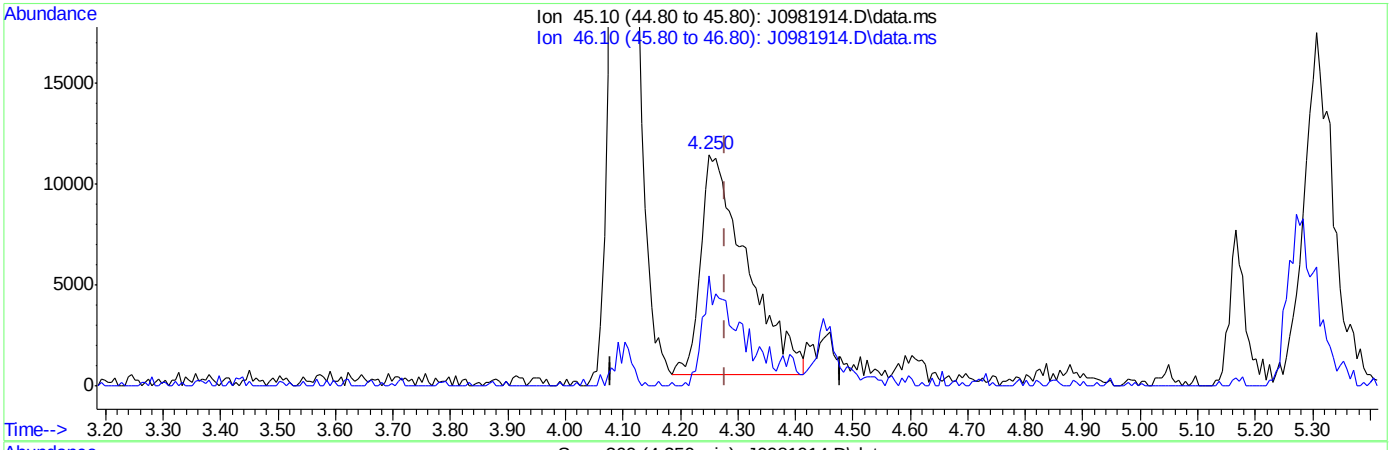
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	91.17
120.90	30.80	29.89
82.00	23.30	24.23

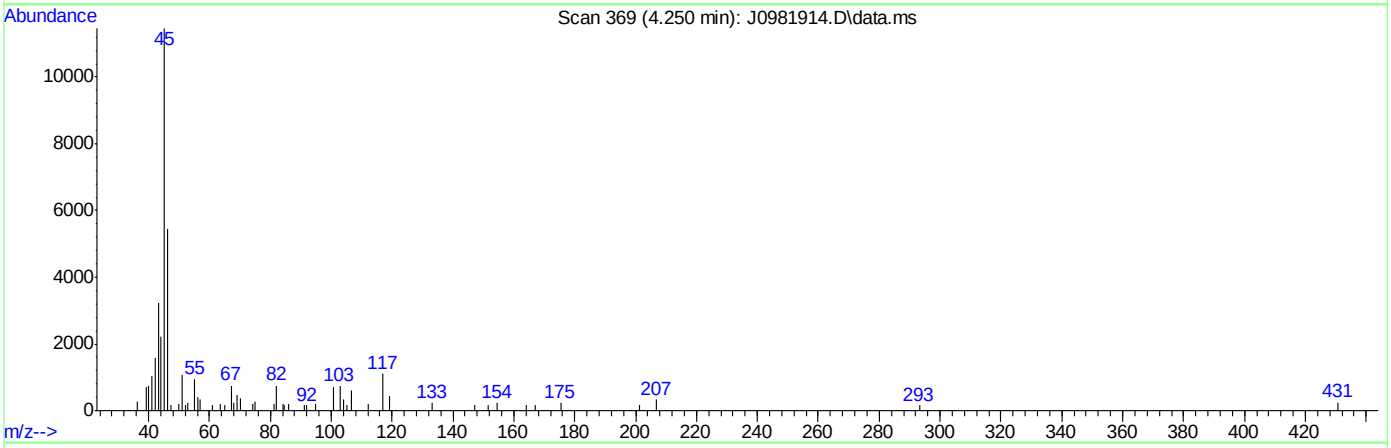
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(107) Ethanol

4.250min (-0.029) 848.68ug/L

response 61011

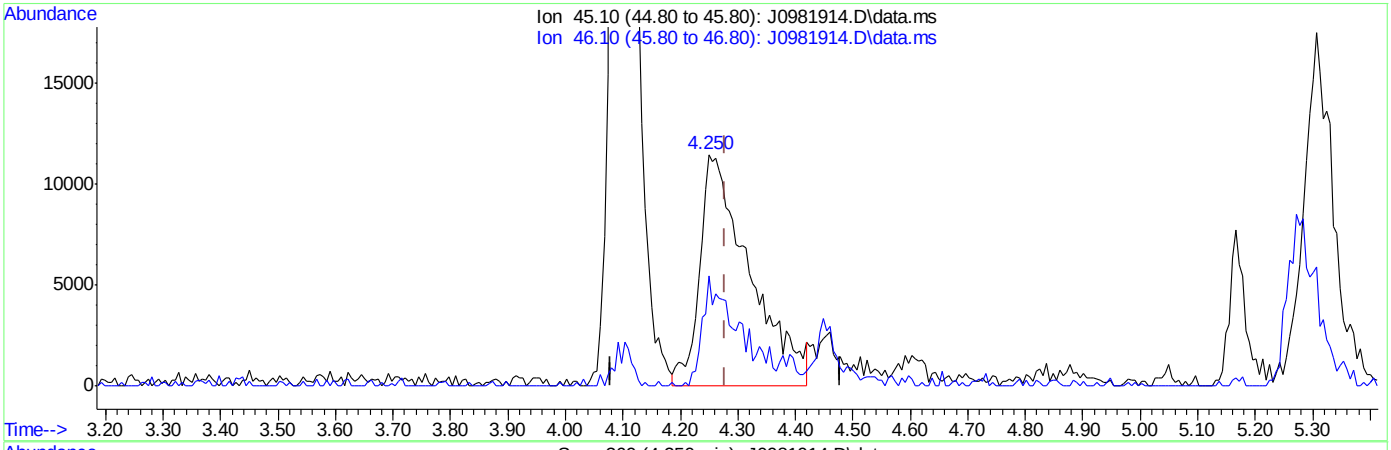
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	48.26
0.00	0.00	0.00
0.00	0.00	0.00

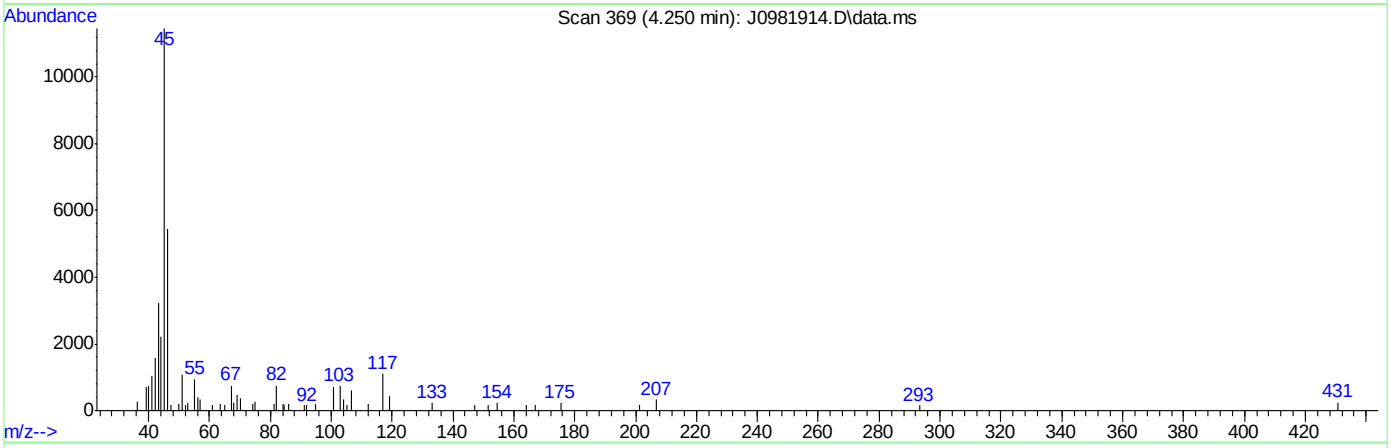
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 09:34:33 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(107) Ethanol

4.250min (-0.029) 964.46ug/L m

response 69339

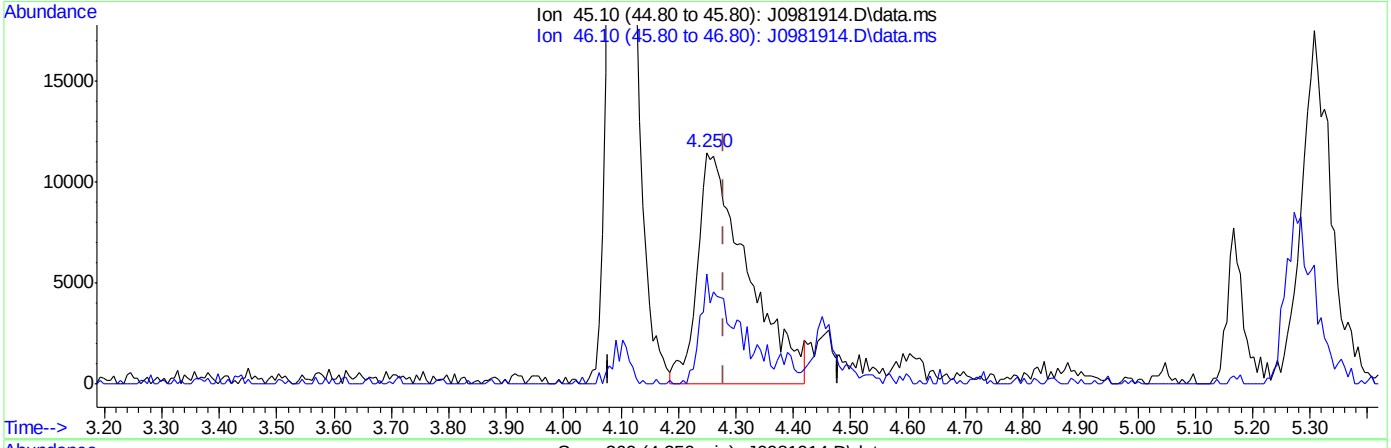
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	47.56
0.00	0.00	0.00
0.00	0.00	0.00

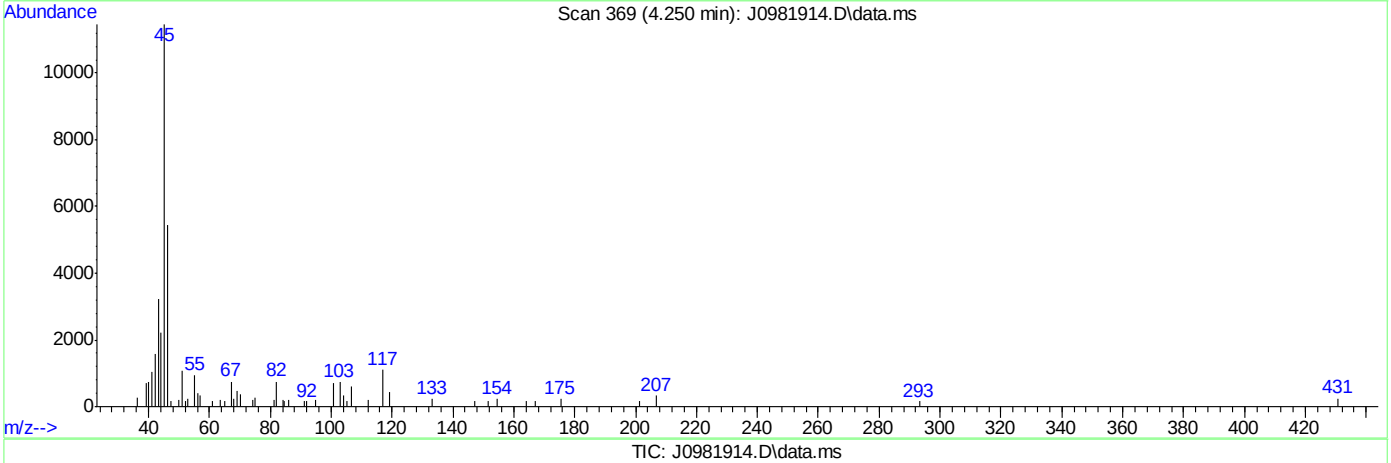
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981914.D
Acq On : 3 Jan 2017 9:16 am
Operator : darshnap
Sample : cc5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:53:38 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981914.D\data.ms

(107) Ethanol

4.250min (-0.029) 964.46ug/L m

response 69339

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	47.56
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations
APPROVED
(compounds with "m" flag)
Juan Garcia
01/04/17 11:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:52:14 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.728	96	759554	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	524481	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	292682	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	95563	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	174786m	48.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.50%			
46) 1,2-Dichloroethane-d4	7.458	65	242115	50.21	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.42%			
57) Toluene-d8	9.279	98	704614	50.59	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.18%			
79) 4-Bromofluorobenzene	12.035	95	305136	52.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.54%			
Target Compounds						Qvalue
4) Vinyl Chloride	3.022	62	243583m	33.52	ug/L	
11) 1,1-Dichloroethene	4.373	61	469397	42.35	ug/L	98
41) tert-Butyl Formate	7.164	59	3612818	475.81	ug/L	99
105) 1,2,3-Trichlorobenzene	15.407	180	508298	46.13	ug/L	97
109) Tert Butyl Alcohol	5.360	59	326965	418.29	ug/L	93

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

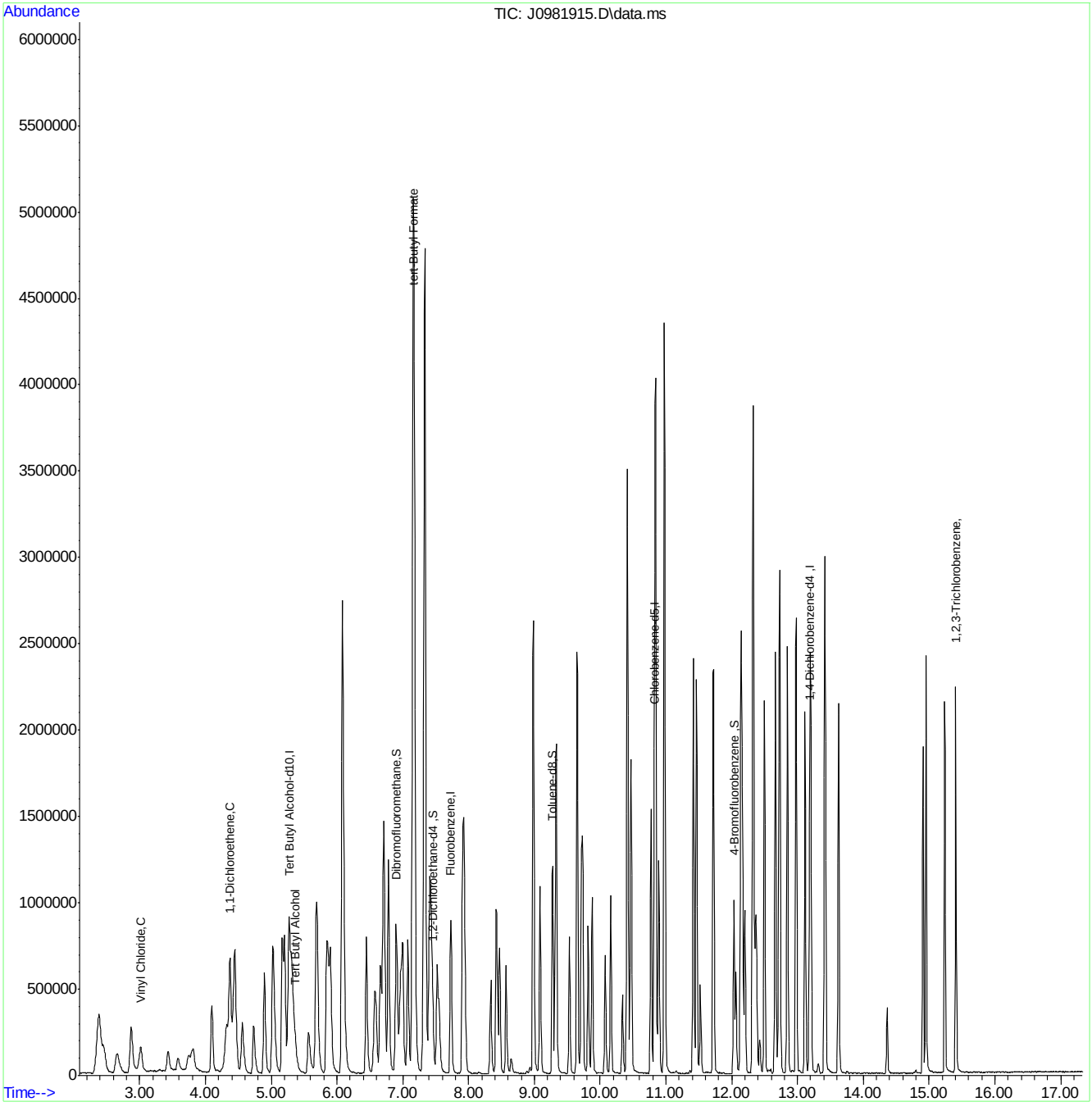
7.6.10
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5529,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:52:14 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



MSJ123016.M Wed Jan 04 10:49:50 2017 Page: 2

Manual Integration Approval Summary

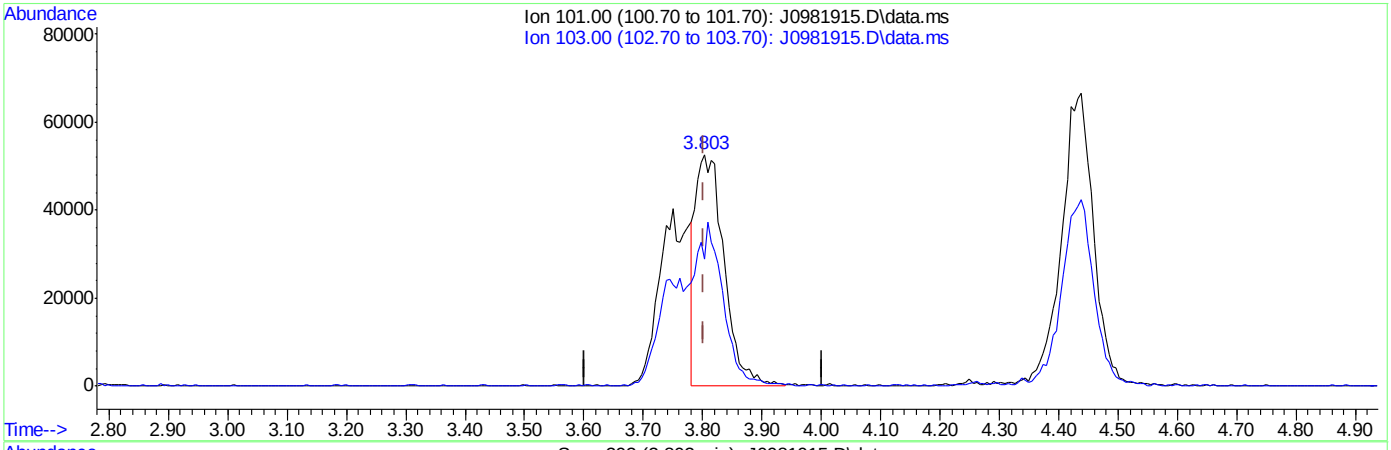
Sample Number:	VJ5529-ICV5529	**Method:**	SW846 8260B
Lab FileID:	J0981915.D	**Analyst approved:**	01/04/17 10:51 Darshna Patel
Injection Time:	01/03/17 09:52	**Supervisor approved:**	01/04/17 11:08 Juan Garcia

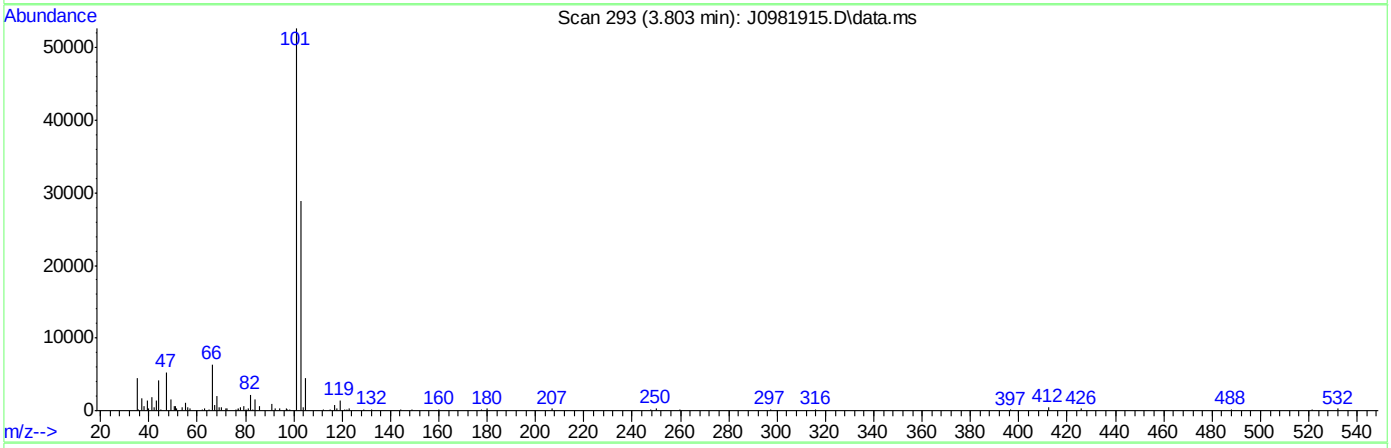
Parameter	CAS	Sig#	R.T. (min.)	Reason
Vinyl Chloride	75-01-4		3.02	Poor instrument integration
Dibromofluoromethane	1868-53-7		6.91	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 19.97ug/L

response 176422

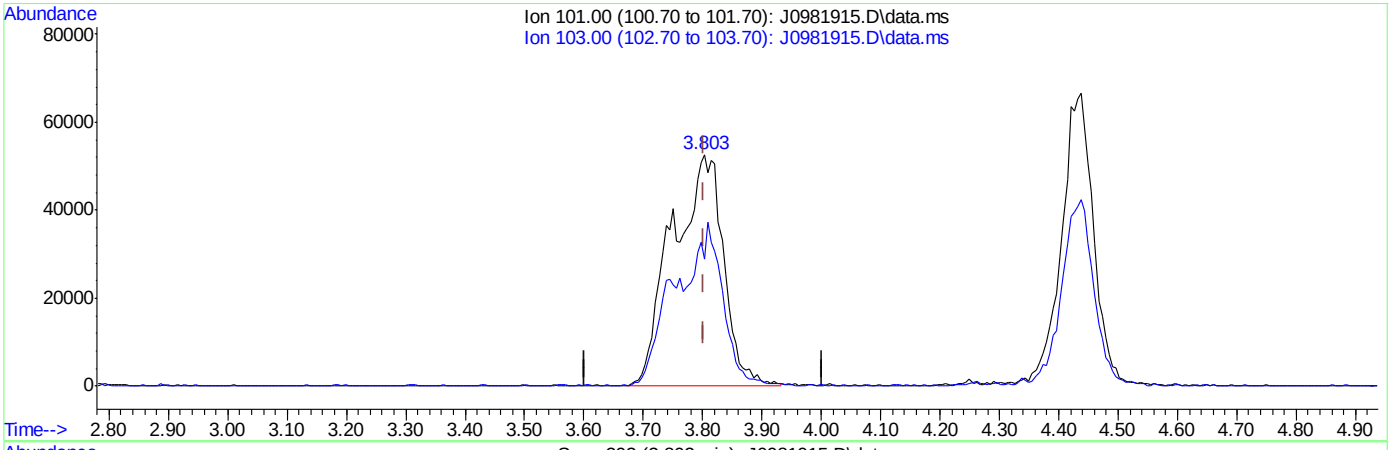
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	54.80
0.00	0.00	0.00
0.00	0.00	0.00

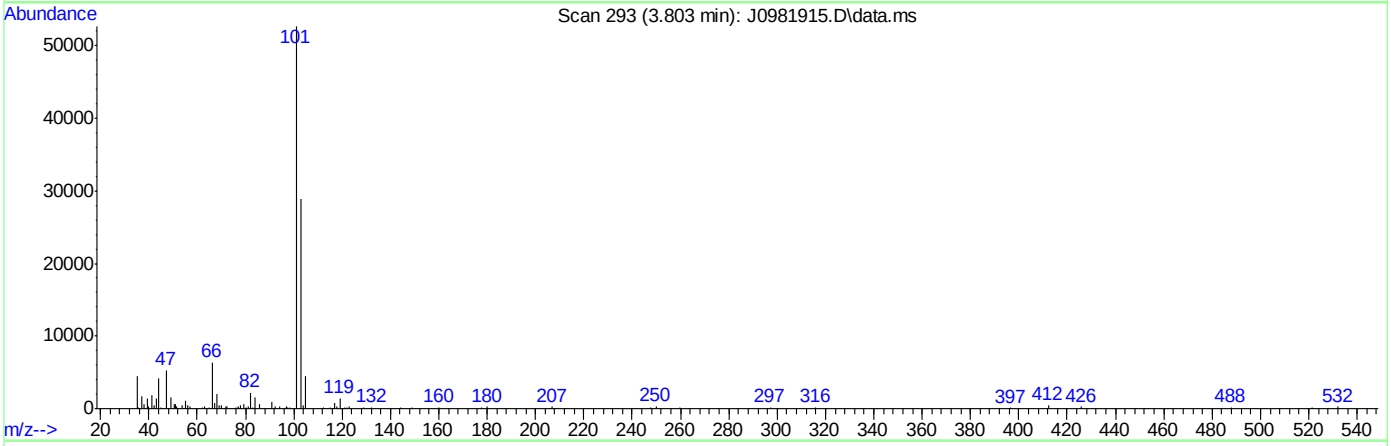
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 35.72ug/L m

response 315524

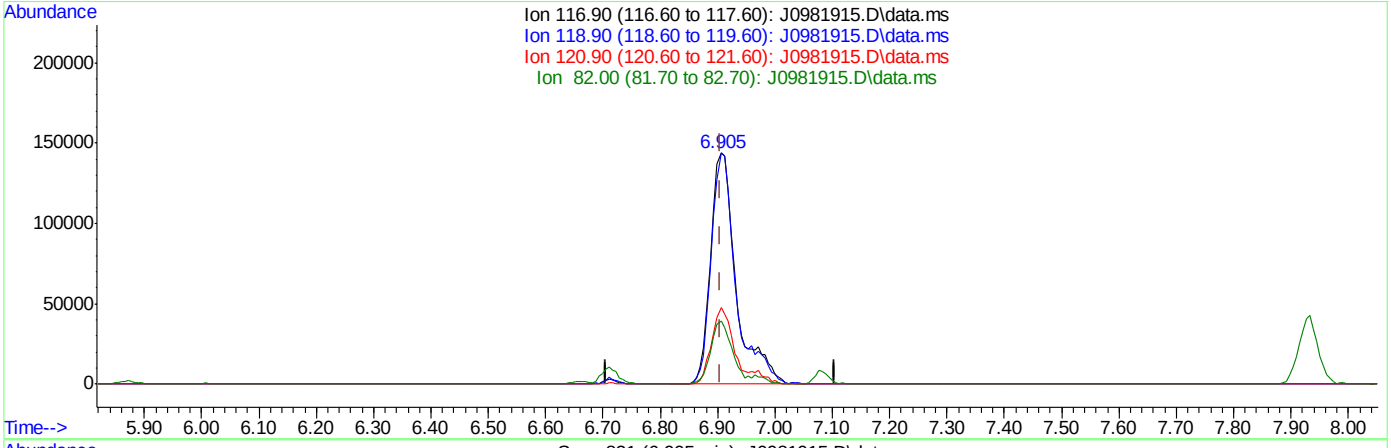
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	54.94
0.00	0.00	0.00
0.00	0.00	0.00

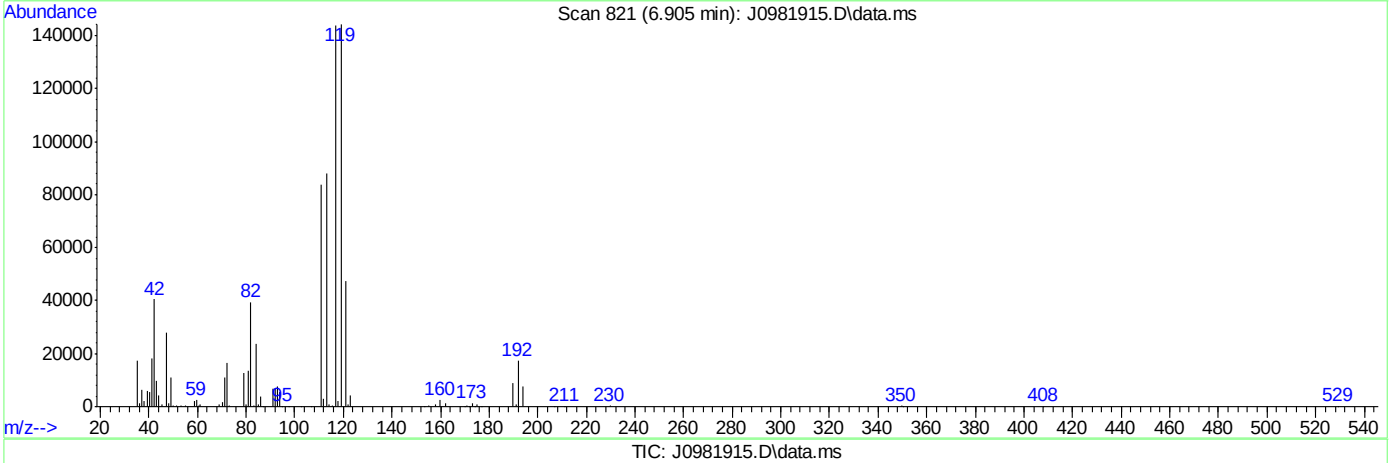
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 48.14ug/L

response 435174

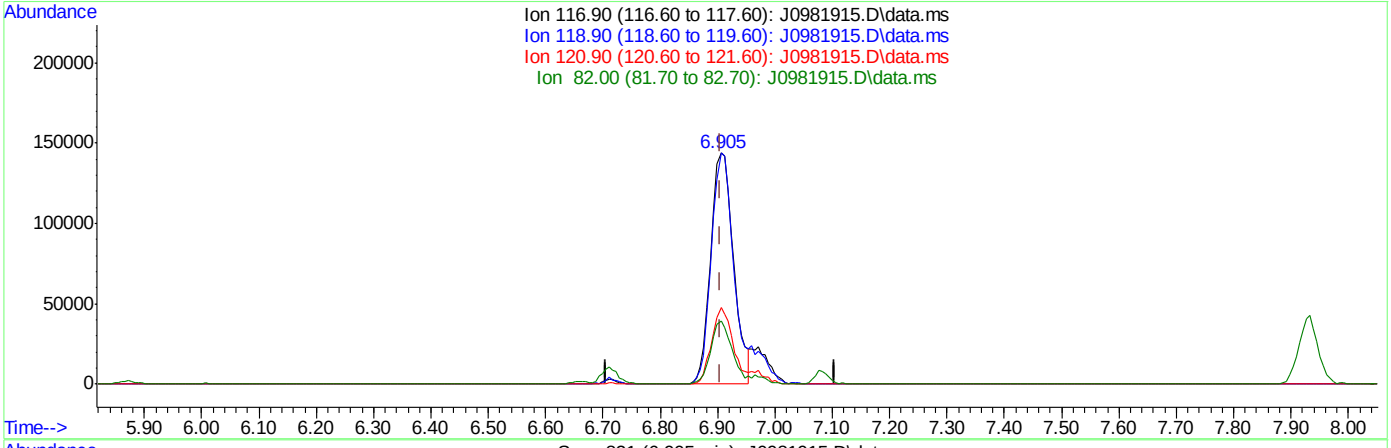
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	100.31
120.90	30.80	33.03
82.00	23.30	27.36

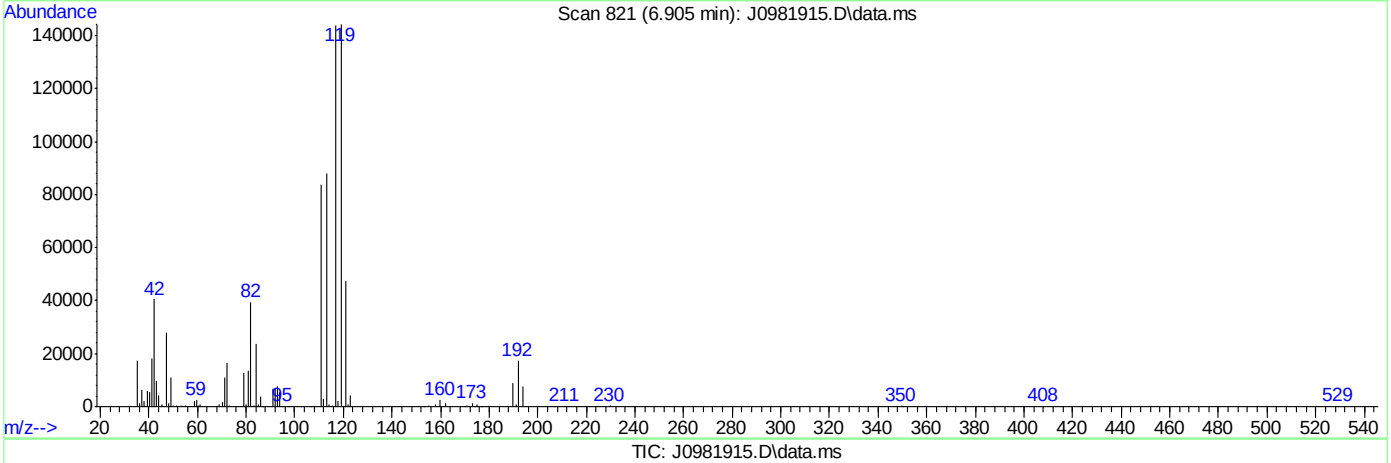
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 42.51ug/L m

response 384290

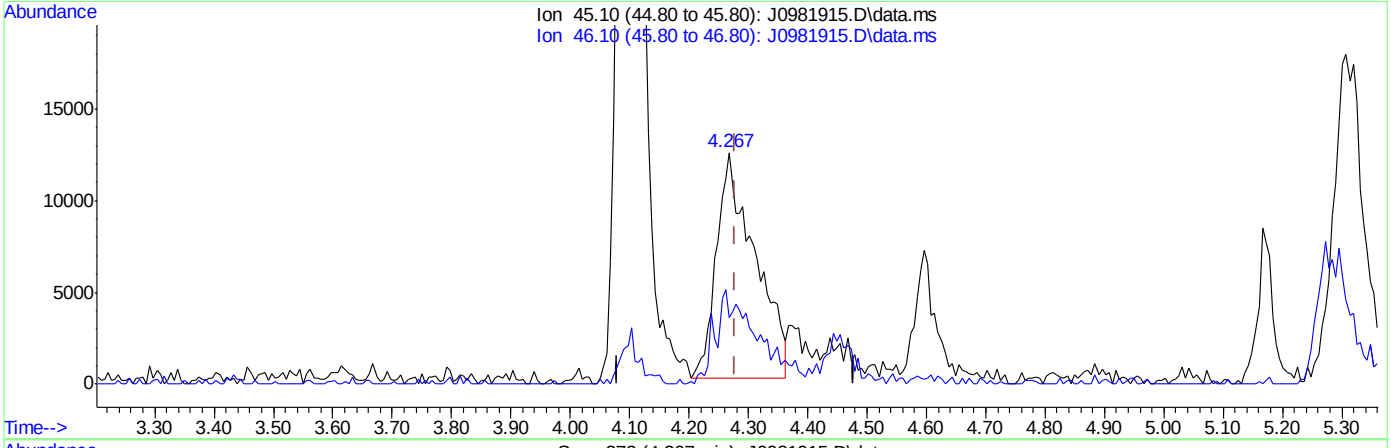
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	100.31
120.90	30.80	33.03
82.00	23.30	27.36

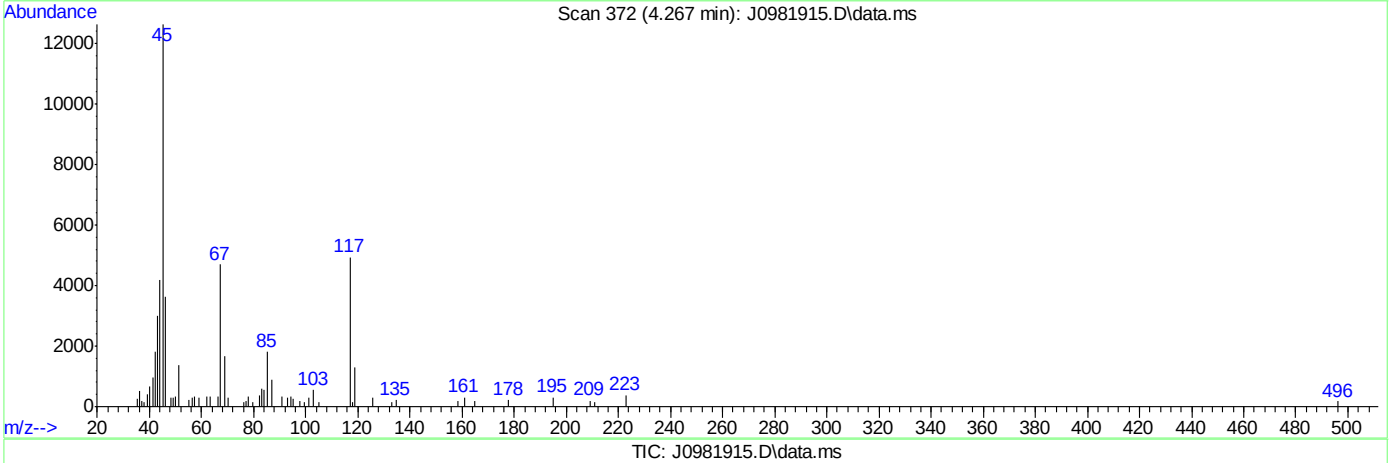
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(107) Ethanol

4.267min (-0.012) 757.98ug/L

response 54895

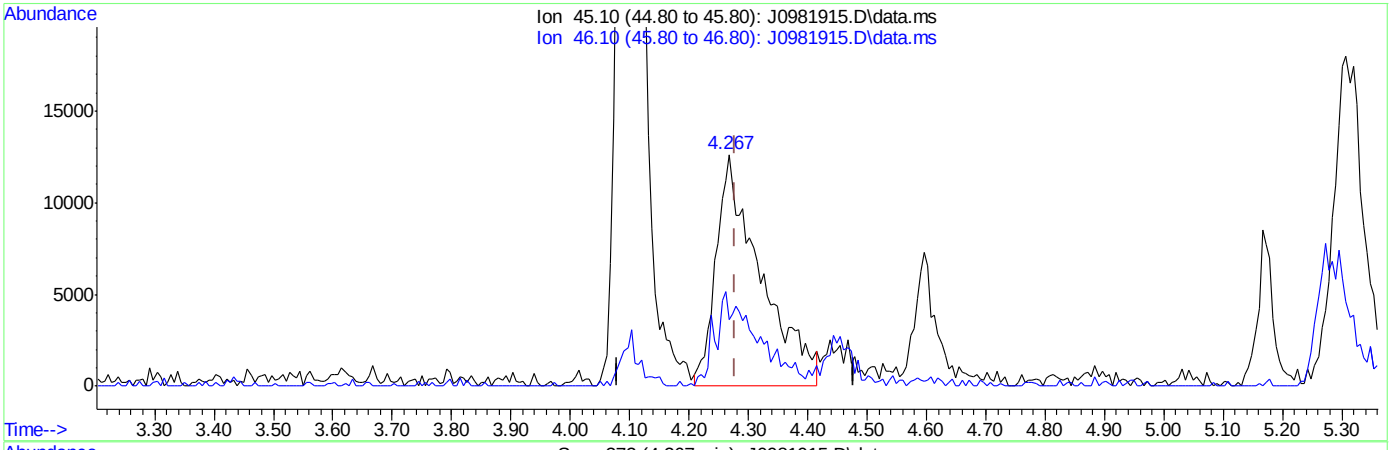
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	28.29
0.00	0.00	0.00
0.00	0.00	0.00

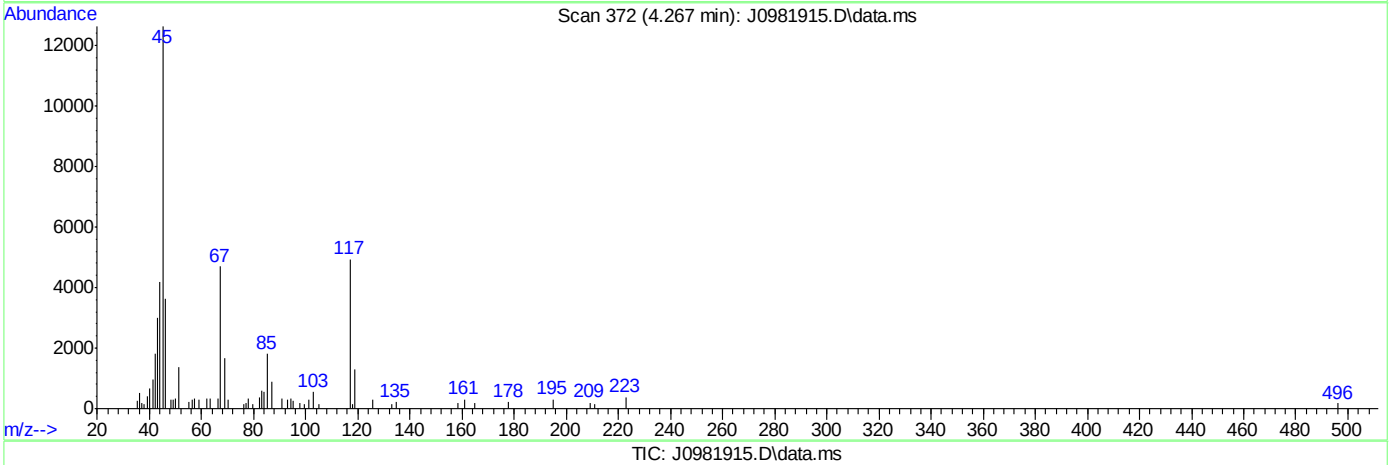
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:10:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(107) Ethanol

4.267min (-0.012) 905.95ug/L m

response 65617

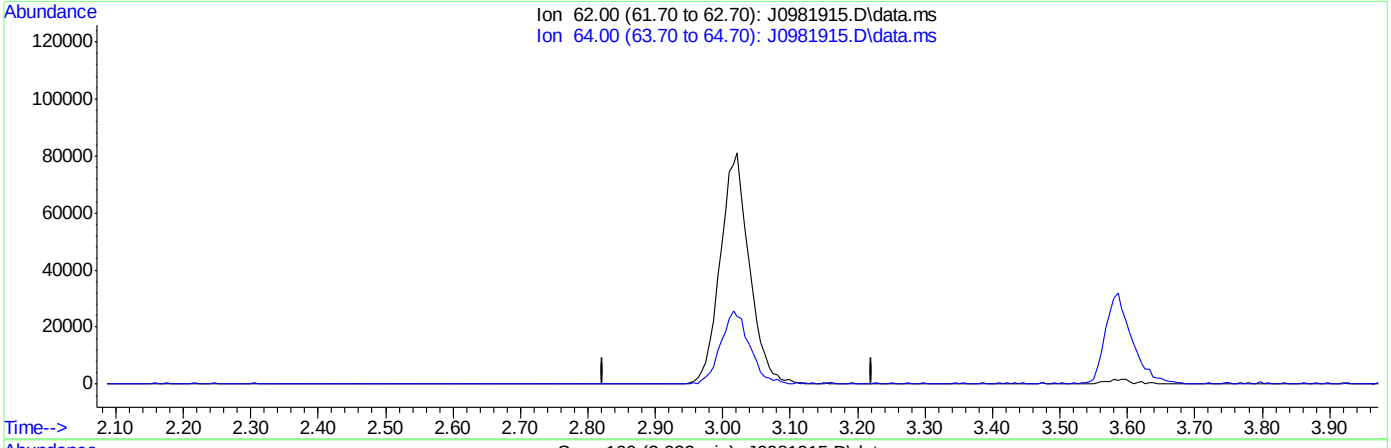
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	28.84
0.00	0.00	0.00
0.00	0.00	0.00

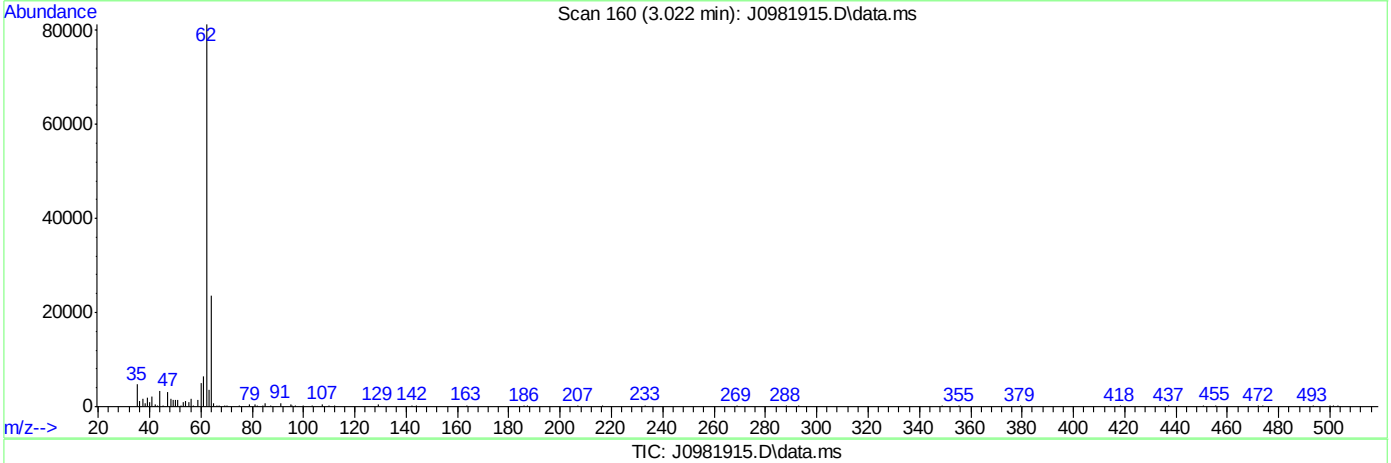
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 03 10:17:09 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981915.D\data.ms

(4) Vinyl Chloride (C)

3.022min 0.00ug/L d

response 0

Ion	Exp%	Act%
62.00	100	0.00
64.00	28.90	0.00
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981915.D
Acq On : 3 Jan 2017 9:52 am
Operator : darshnap
Sample : icv5529-5 Inst : MSVOA6
Misc : MS35465,VJ5530,,,,,
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Quant Time: Jan 03 10:17:09 2017
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QLast Update : Tue Jan 03 09:58:33 2017
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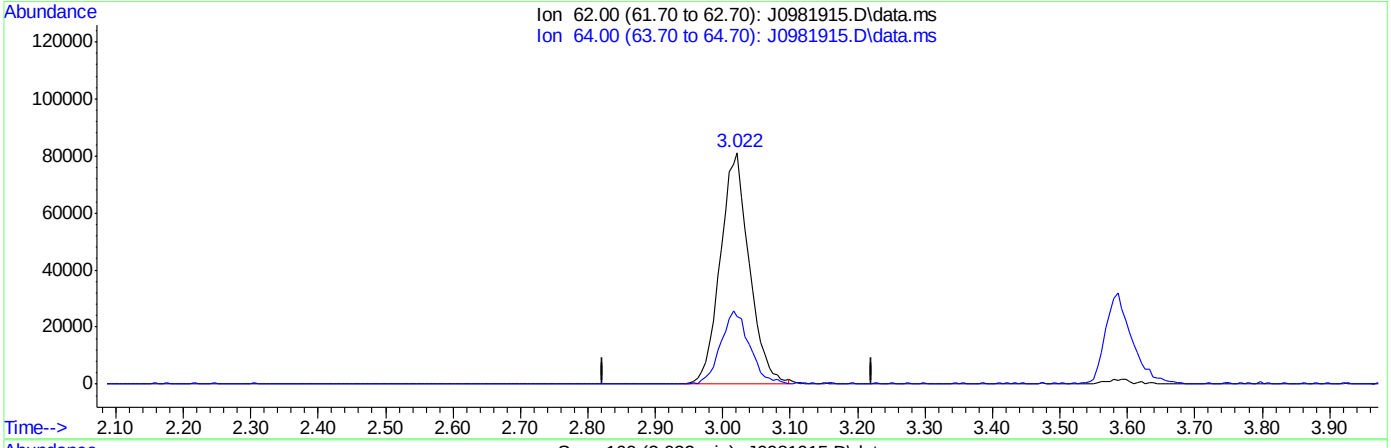
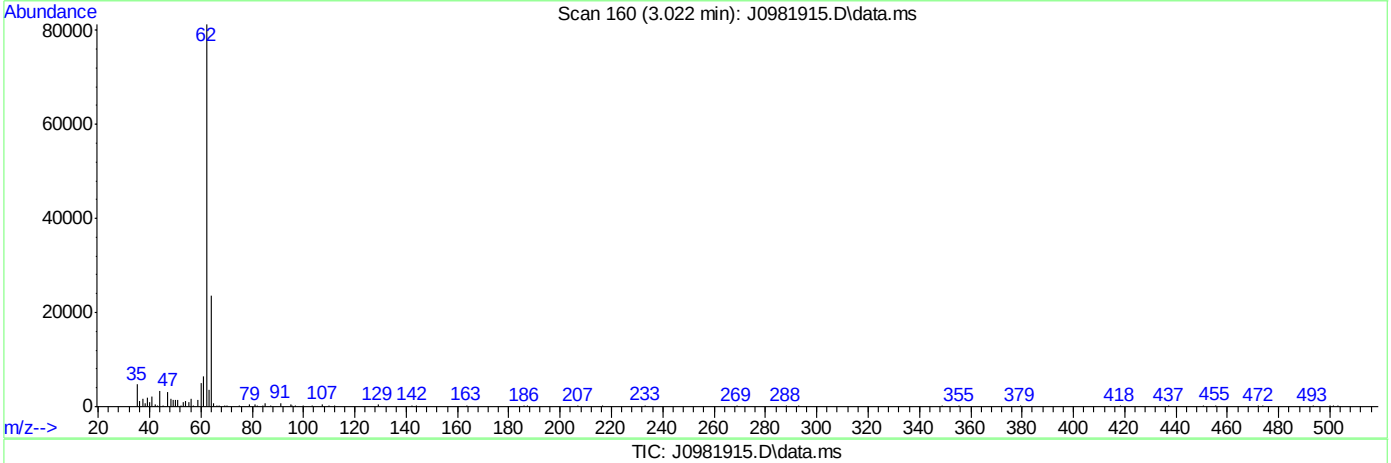




TIC: J0981915.D\data.ms

(4) Vinyl Chloride (C)

3.022min (-0.000) 33.52ug/L m

response 243583

Ion	Exp%	Act%
62.00	100	100
64.00	28.90	29.13
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
01/04/17 11:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 09:49:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	665139	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	466783	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	254179	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	88420	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	151498	48.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.50%			
46) 1,2-Dichloroethane-d4	7.458	65	224560	53.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.36%			
57) Toluene-d8	9.279	98	622613	50.22	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.44%			
79) 4-Bromofluorobenzene	12.035	95	267040	52.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	333143	46.05	ug/L	93
3) Chloromethane	2.869	50	474342	45.26	ug/L	95
4) Vinyl Chloride	3.016	62	290745	45.69	ug/L	92
5) 1,3-Butadiene	3.010	54	185448	45.84	ug/L	96
6) Bromomethane	3.439	94	116054	33.96	ug/L	95
7) Chloroethane	3.586	64	95507	40.10	ug/L	89
8) Trichlorofluoromethane	3.809	101	355295m	45.93	ug/L	
9) Ethyl Ether	4.097	59	267457	47.39	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.326	67	339695	48.68	ug/L	92
11) 1,1-Dichloroethene	4.373	61	468824	48.30	ug/L	96
12) Freon 113	4.438	101	279675	47.46	ug/L	90
13) Carbon Disulfide	4.449	76	945418	46.66	ug/L	100
14) Iodomethane	4.561	142	428542	41.57	ug/L	99
15) Allyl chloride	4.896	41	521031	44.79	ug/L	98
16) Methylene Chloride	5.025	49	471758	46.34	ug/L	96
17) Acetone	5.043	58	123558	230.86	ug/L #	73
18) Methyl acetate	5.172	74	210935	250.39	ug/L	96
19) trans-1,2-Dichloroethene	5.201	61	443074	46.99	ug/L	97
20) Hexane	5.272	56	296022	48.59	ug/L	87
21) Methyl Tert Butyl Ether	5.307	73	840700	44.91	ug/L	91
22) Acetonitrile	5.566	40	203001	463.59	ug/L	93
23) Di-isopropyl ether	5.689	45	1216996	48.40	ug/L	95
24) Chloroprene	5.848	53	486472	45.01	ug/L	95
25) 1,1-Dichloroethane	5.871	63	516804	45.82	ug/L	99
26) Acrylonitrile	5.901	53	567660	240.99	ug/L	95
27) ETBE	6.095	59	1061694	45.77	ug/L	98
28) Vinyl acetate	6.083	43	3002809	209.17	ug/L	99
29) cis-1,2-Dichloroethene	6.447	96	299089	42.95	ug/L	93
30) 2,2-Dichloropropane	6.582	77	384331	39.66	ug/L	99
31) Bromochloromethane	6.659	128	133072	41.66	ug/L	89
32) Cyclohexane	6.706	56	618744	48.88	ug/L	98
33) Chloroform	6.711	83	499115	43.62	ug/L	95
34) Ethyl acetate	6.782	43	1451307	249.25	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 09:49:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	99343	52.03 ug/L	94
37) Carbon Tetrachloride	6.905	117	350166m	44.24 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	450723	45.02 ug/L	98
39) 2-Butanone	6.999	43	636496	228.04 ug/L	97
40) 1,1-Dichloropropene	7.082	75	379249	46.85 ug/L	93
41) tert-Butyl Formate	7.164	59	2555767	384.37 ug/L	94
42) Propionitrile	7.311	54	387557	445.52 ug/L	98
43) Methacrylonitrile	7.334	41	1742187	490.66 ug/L	99
44) Benzene	7.334	78	959895	44.92 ug/L	99
45) TAME	7.411	73	874946	46.23 ug/L	94
47) 1,2-Dichloroethane	7.522	62	412542	47.01 ug/L	97
48) Trichloroethene	7.910	95	288806	46.52 ug/L	97
49) Methylcyclohexane	7.928	83	533153	47.98 ug/L	96
50) Dibromomethane	8.339	93	173187	46.05 ug/L	96
51) 1,2-Dichloropropane	8.427	63	312793	47.38 ug/L	94
52) Bromodichloromethane	8.474	83	357835	43.47 ug/L	97
53) Methyl methacrylate	8.568	41	288267	47.66 ug/L	97
54) 2-Chloroethyl vinyl ether	8.985	63	921854	235.32 ug/L	99
55) cis-1,3-Dichloropropene	9.085	75	447281	44.31 ug/L	94
58) Toluene	9.332	91	1049019	45.35 ug/L	98
59) 2-Nitropropane	9.532	41	363157	238.08 ug/L	97
60) 4-Methyl-2-pentanone	9.649	43	1477777	240.08 ug/L	98
61) trans-1,3-Dichloropropene	9.714	75	384525	45.28 ug/L	94
62) Tetrachloroethene	9.731	166	390388	55.69 ug/L	96
63) Ethyl methacrylate	9.820	69	365486	45.49 ug/L	94
64) 1,1,2-Trichloroethane	9.878	83	203721	47.60 ug/L	97
65) Dibromochloromethane	10.078	129	245530	42.78 ug/L	94
66) 1,3-Dichloropropane	10.160	76	448695	47.36 ug/L	94
67) 1,2-Dibromoethane	10.337	107	243411	45.59 ug/L	98
68) 2-hexanone	10.466	43	1031815	245.78 ug/L	98
69) 1-Chlorohexane	10.771	91	409056	47.61 ug/L	92
70) Ethylbenzene	10.842	91	1170547	45.13 ug/L	96
71) Chlorobenzene	10.842	112	689430	43.33 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.895	131	249279	40.72 ug/L	98
73) m,p-Xylene	10.977	91	1866780	89.10 ug/L	98
74) o-Xylene	11.418	91	1079547	45.39 ug/L	99
75) Styrene	11.465	104	751614	42.89 ug/L	95
76) Bromoform	11.524	173	157474	39.12 ug/L	96
77) Isopropylbenzene	11.723	105	1259345	45.45 ug/L	96
80) cis-1,4-Dichloro-2-butene	12.064	53	66845	32.83 ug/L	91
81) n-Propylbenzene	12.140	91	1533953	45.46 ug/L	94
82) Bromobenzene	12.164	156	292145	41.54 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.199	83	322163	43.68 ug/L	97
84) 1,3,5-Trimethylbenzene	12.323	105	1004385	44.91 ug/L	98
85) 2-Chlorotoluene	12.328	91	1022654	44.55 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.381	53	86628	38.63 ug/L #	82
87) 1,2,3-Trichloropropane	12.364	110	89120	46.80 ug/L	94
88) Cyclohexanone	12.422	55	62243	214.27 ug/L	94
89) 4-Chlorotoluene	12.499	91	994903	45.42 ug/L	99
90) a-Methyl Styrene	12.587	118	606904	43.47 ug/L	97

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 09:49:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.663	91	669190	45.89	ug/L	95
92)	1,2,4-Trimethylbenzene	12.734	105	1011838	45.66	ug/L	95
93)	Pentachloroethane	12.716	167	77096	17.76	ug/L	92
94)	sec-Butylbenzene	12.846	105	1422878	46.89	ug/L	96
95)	4-Isopropyltoluene	12.981	119	1086601	45.44	ug/L	96
96)	1,3-Dichlorobenzene	13.116	146	621404	43.38	ug/L	94
97)	1,4-Dichlorobenzene	13.198	146	625960	42.10	ug/L	98
98)	n-Butylbenzene	13.410	92	677216	46.41	ug/L	94
99)	Benzyl Chloride	13.427	126	109276	36.19	ug/L #	45
100)	1,2-Dichlorobenzene	13.621	146	615422	42.66	ug/L	96
101)	1,2-Dibromo-3-Chloropr...	14.361	75	68170	46.70	ug/L	87
102)	Hexachlorobutadiene	14.908	225	243877	40.09	ug/L	98
103)	1,2,4-Trichlorobenzene	14.955	180	428172	41.85	ug/L	96
104)	Naphthalene	15.237	128	937374	45.88	ug/L	98
105)	1,2,3-Trichlorobenzene	15.407	180	391157	40.82	ug/L	94
107)	Ethanol	4.267	45	60952m	909.52	ug/L	
108)	acrolein	4.731	56	250125	203.49	ug/L	91
109)	Tert Butyl Alcohol	5.348	59	322966	447.53	ug/L	90
110)	tert Amyl alcohol	7.552	59	252243	433.61	ug/L	94
111)	Isobutyl alcohol	7.434	42	210158	894.32	ug/L	95
112)	1,4-Dioxane	8.645	88	52146	843.52	ug/L	99
113)	3,3-Dimethyl-1-butanol	10.413	57	1301518	2155.42	ug/L	98

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

7.6.11

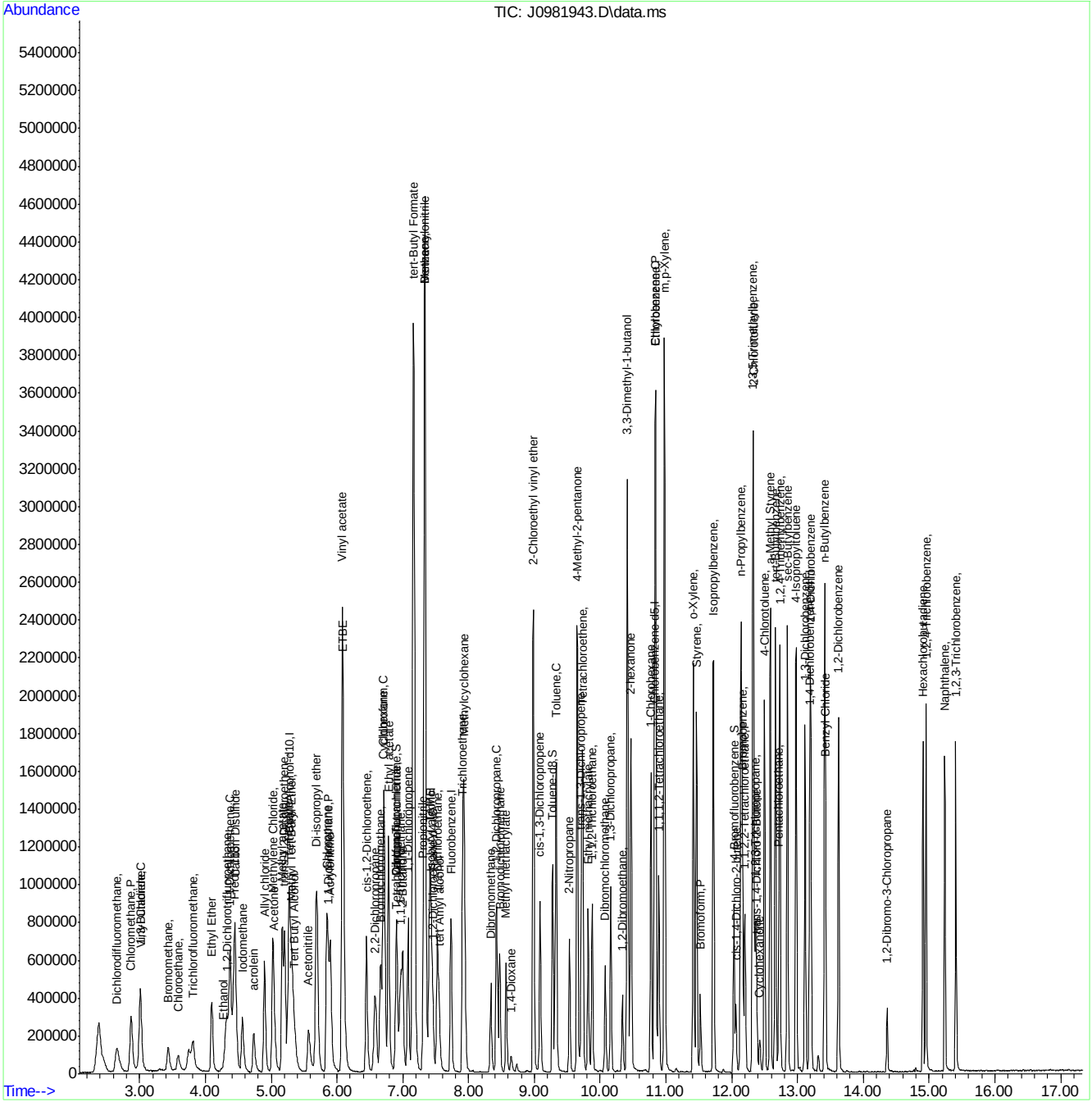
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 09:49:06 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

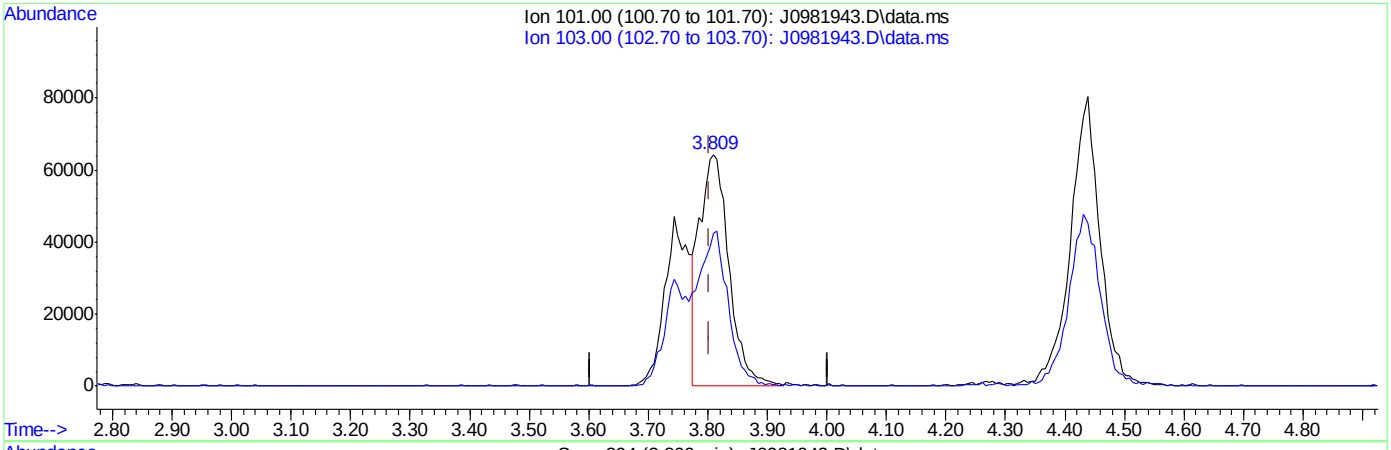
Sample Number:	VJ5530-ECC5529	**Method:**	SW846 8260B
Lab FileID:	J0981943.D	**Analyst approved:**	01/04/17 10:28 Darshna Patel
Injection Time:	01/03/17 21:32	**Supervisor approved:**	01/04/17 11:16 Juan Garcia

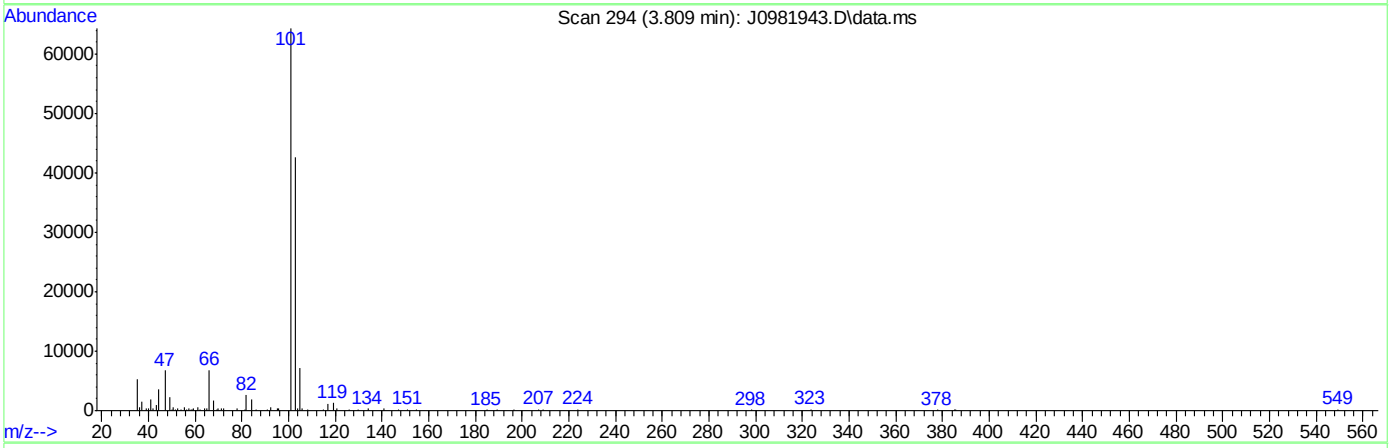
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 28.59ug/L

response 221167

Ion	Exp%	Act%
101.00	100	100
103.00	55.20	65.90
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
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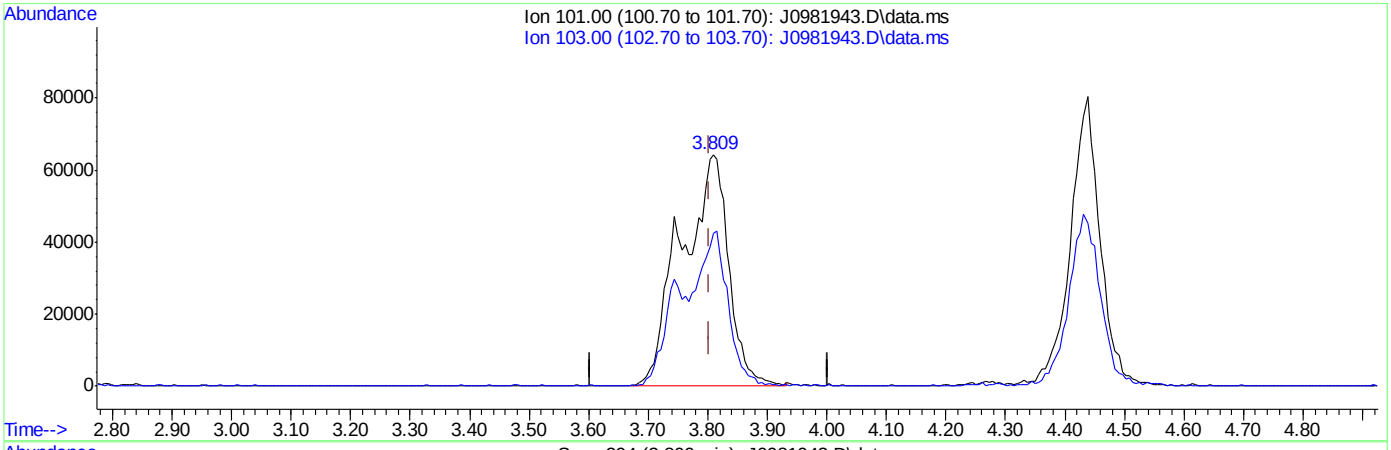
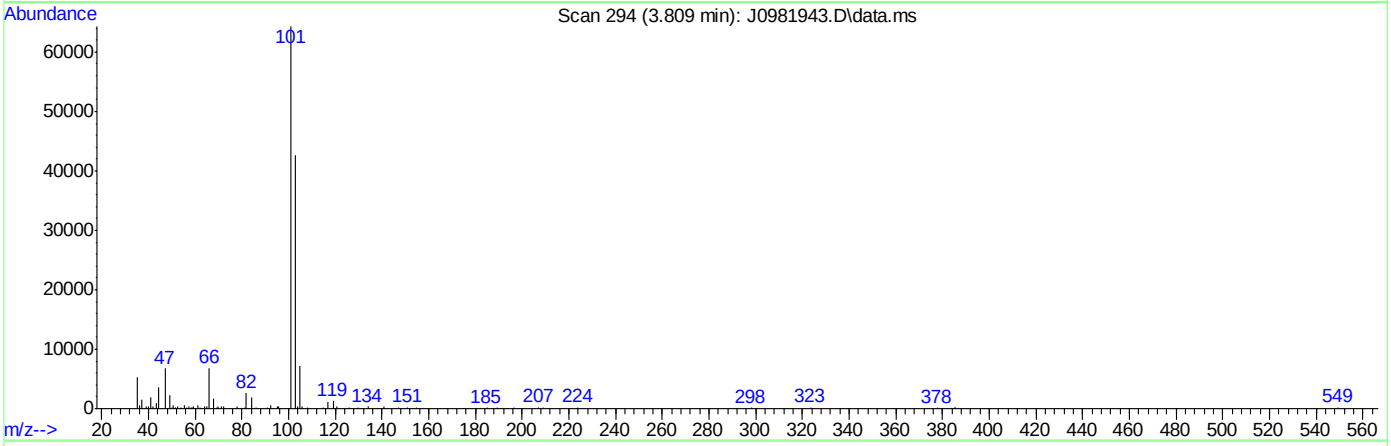
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.006) 45.93ug/L m

response 355295

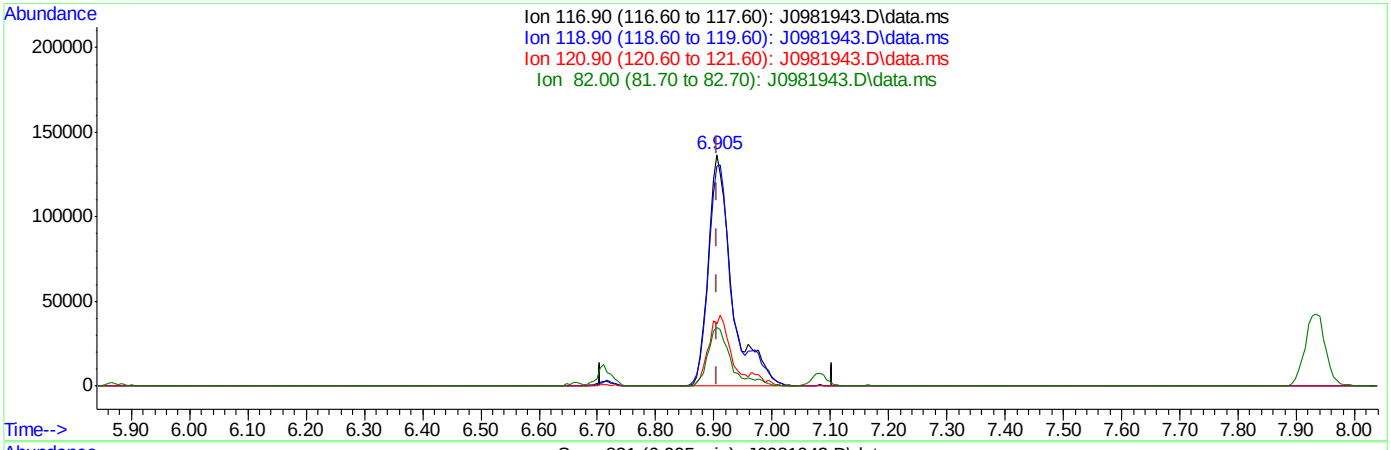
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	66.23
0.00	0.00	0.00
0.00	0.00	0.00

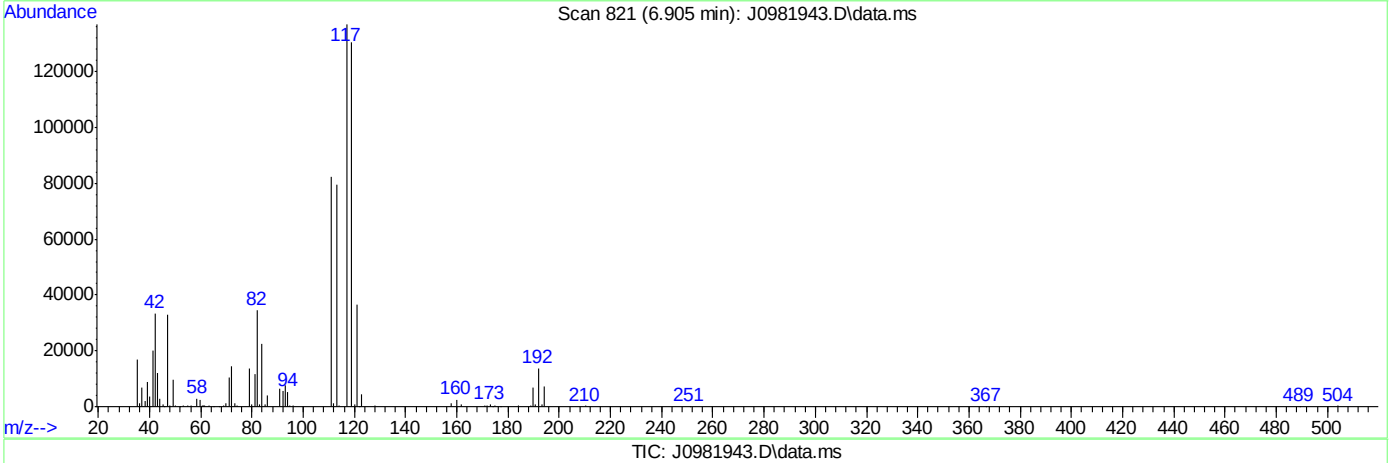
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 49.36ug/L

response 390684

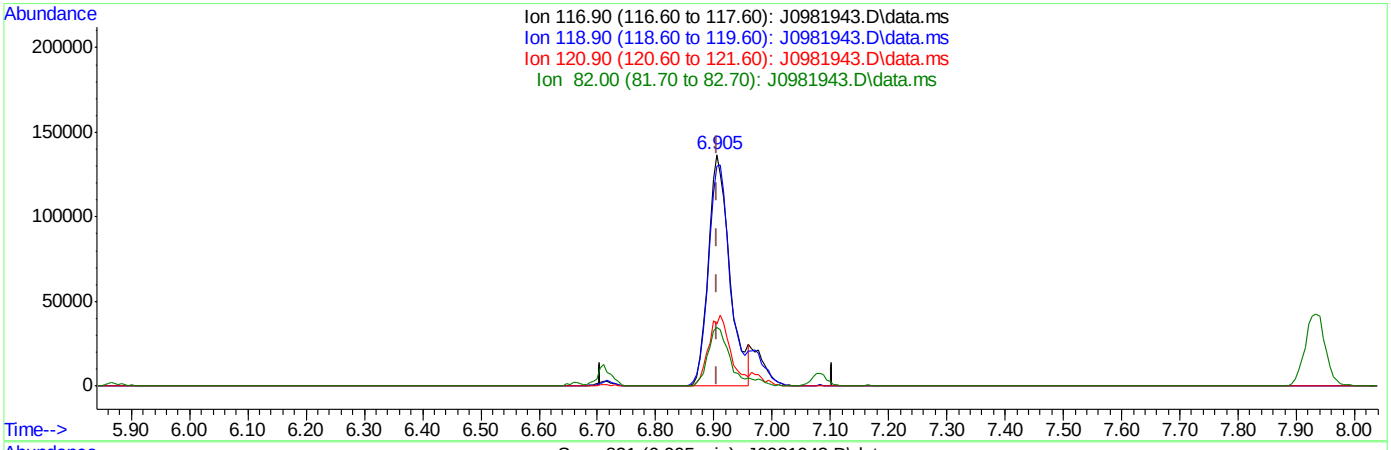
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	95.21
120.90	30.80	26.79
82.00	23.30	25.29

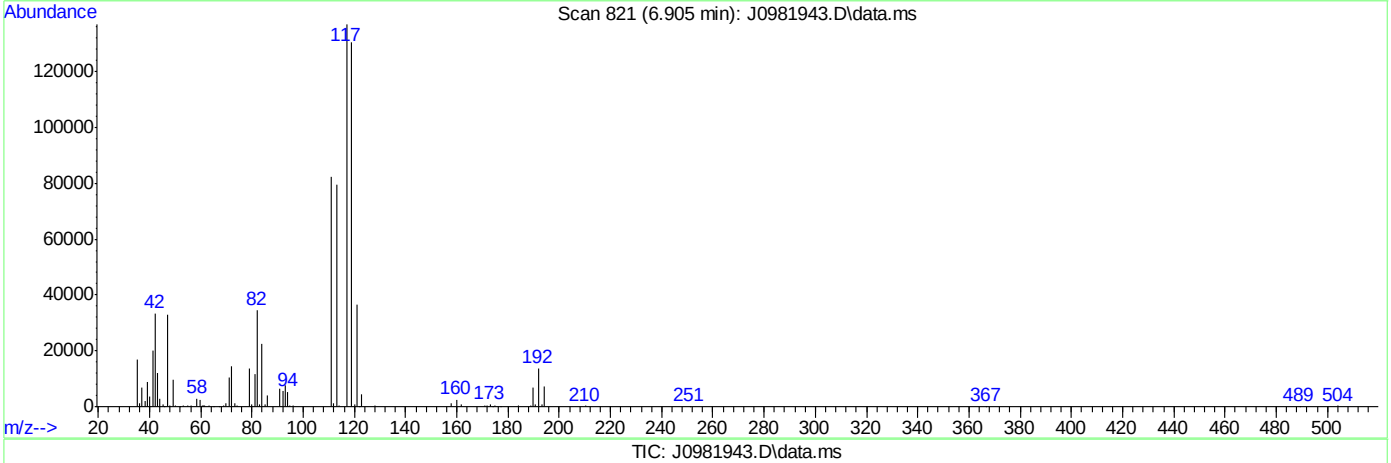
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 44.24ug/L m

response 350166

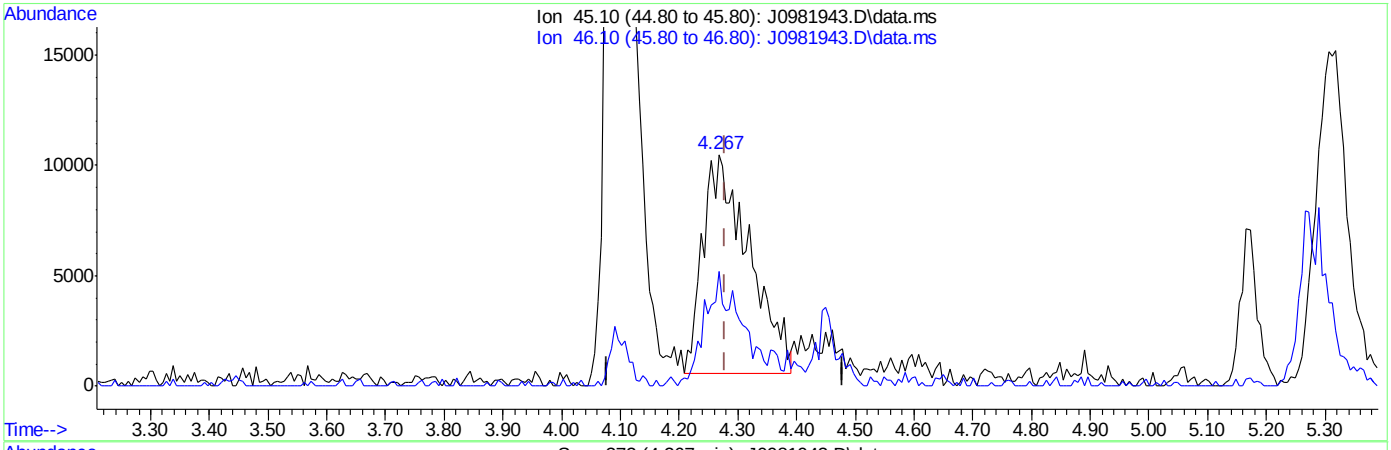
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	95.21
120.90	30.80	26.79
82.00	23.30	25.29

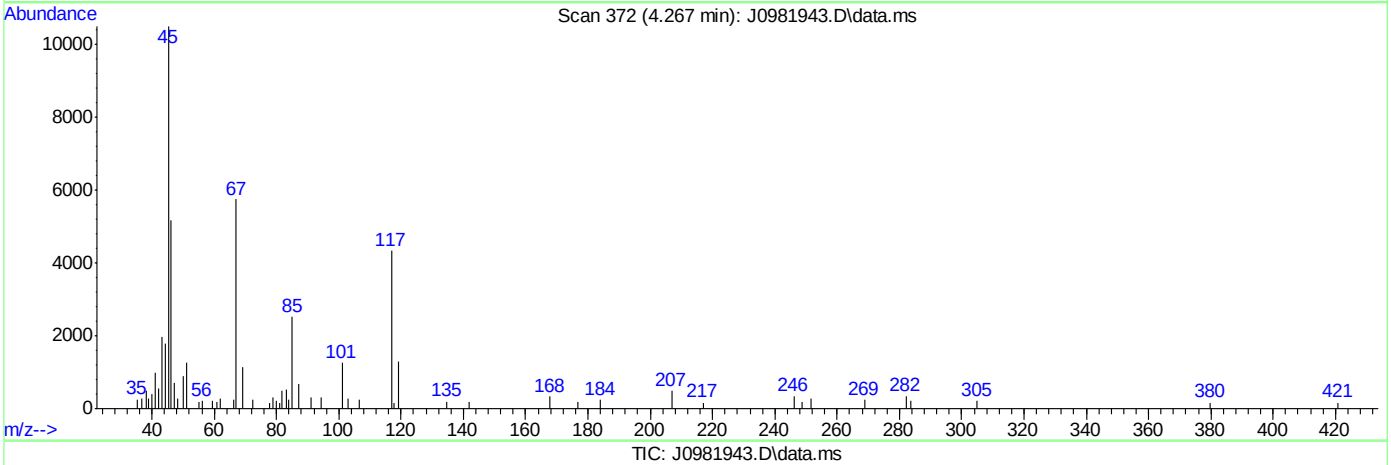
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 09:58:33 2017
Response via : Initial Calibration





TIC: J0981943.D\data.ms

(107) Ethanol

4.267min (-0.012) 803.27ug/L

response 53828

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	48.48
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010317\
Data File : J0981943.D
Acq On : 3 Jan 2017 9:32 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35986,VJ5531,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 07:48:52 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
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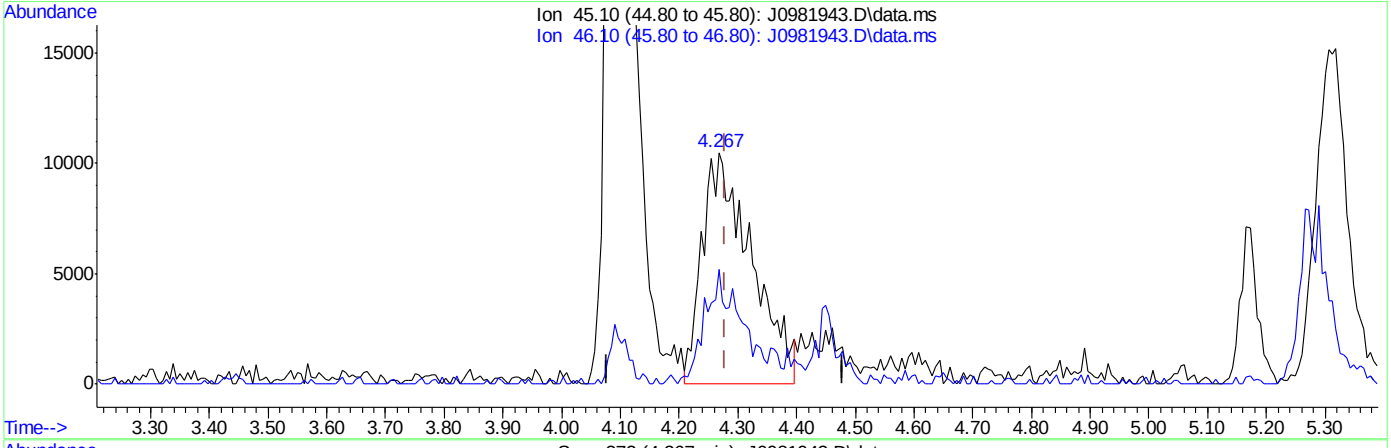
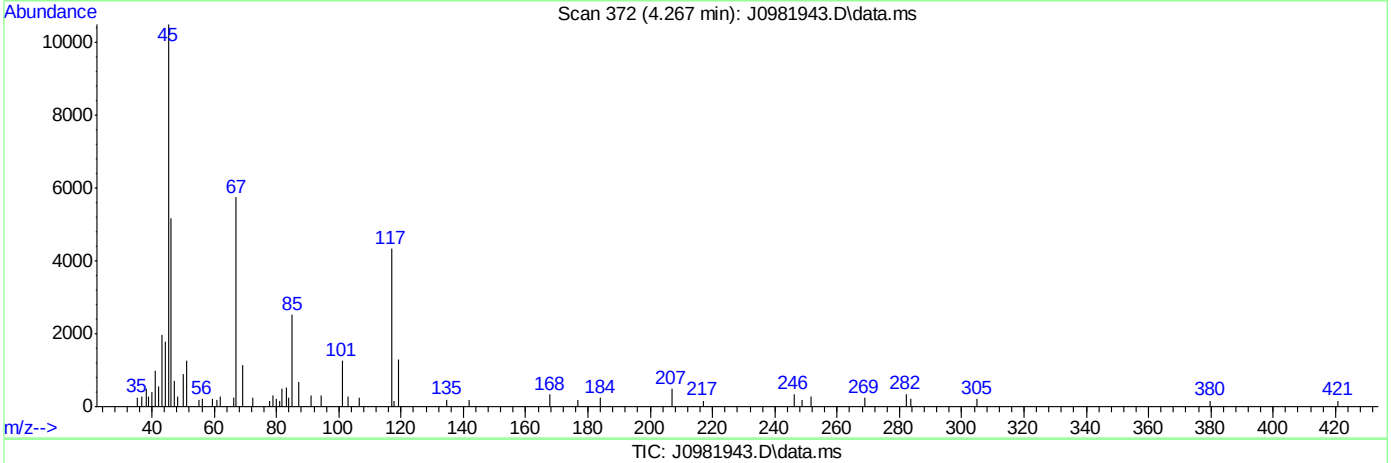




TIC: J0981943.D\data.ms

(107) Ethanol

4.267min (-0.012) 909.52ug/L m

response 60952

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	49.39
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
01/05/17 11:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 10:05:21 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	712752	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	487238	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	269420	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	89750	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	162357	48.25	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.50%			
46) 1,2-Dichloroethane-d4	7.458	65	234463	51.81	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.62%			
57) Toluene-d8	9.279	98	663596	51.28	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.56%			
79) 4-Bromofluorobenzene	12.035	95	282686	52.60	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	285776	36.86	ug/L	98
3) Chloromethane	2.875	50	447985	39.89	ug/L	96
4) Vinyl Chloride	3.016	62	253759	37.21	ug/L	94
5) 1,3-Butadiene	3.010	54	162880	37.62	ug/L	96
6) Bromomethane	3.439	94	113484	30.83	ug/L	90
7) Chloroethane	3.586	64	83462	32.02	ug/L	92
8) Trichlorofluoromethane	3.803	101	293145m	35.36	ug/L	
9) Ethyl Ether	4.097	59	257057	42.50	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.432	67	3401m	0.45	ug/L	
11) 1,1-Dichloroethene	4.373	61	468018	45.00	ug/L	96
12) Freon 113	4.438	101	252900	40.03	ug/L	92
13) Carbon Disulfide	4.455	76	911875	42.00	ug/L	100
14) Iodomethane	4.561	142	407369	36.88	ug/L	98
15) Allyl chloride	4.896	41	536111	43.00	ug/L	98
16) Methylene Chloride	5.019	49	513728	47.13	ug/L	96
17) Acetone	5.055	58	132395	230.85	ug/L #	78
18) Methyl acetate	5.172	74	205557	227.70	ug/L	98
19) trans-1,2-Dichloroethene	5.207	61	447118	44.26	ug/L	98
20) Hexane	5.272	56	279443	42.83	ug/L	95
21) Methyl Tert Butyl Ether	5.313	73	833142	41.54	ug/L	95
22) Acetonitrile	5.566	40	221674	473.04	ug/L	95
23) Di-isopropyl ether	5.695	45	1187422	44.07	ug/L	97
24) Chloroprene	5.842	53	468795	40.45	ug/L	95
25) 1,1-Dichloroethane	5.871	63	557005	46.09	ug/L	92
26) Acrylonitrile	5.901	53	598369	237.06	ug/L	95
27) ETBE	6.095	59	1038468	41.77	ug/L	98
28) Vinyl acetate	6.083	43	3607097	239.32	ug/L	98
29) cis-1,2-Dichloroethene	6.447	96	305984	41.00	ug/L	96
30) 2,2-Dichloropropane	6.582	77	464516	44.73	ug/L	93
31) Bromochloromethane	6.659	128	130352	38.08	ug/L #	79
32) Cyclohexane	6.712	56	562214	41.45	ug/L	95
33) Chloroform	6.712	83	490986	40.04	ug/L	97
34) Ethyl acetate	6.782	43	1495841	239.74	ug/L	98

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 10:05:21 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	93673	45.72	ug/L	92
37) Carbon Tetrachloride	6.905	117	343574m	40.51	ug/L	
38) 1,1,1-Trichloroethane	6.970	97	438952	40.91	ug/L	97
39) 2-Butanone	6.999	43	686704	229.59	ug/L	96
40) 1,1-Dichloropropene	7.082	75	359074	41.40	ug/L	95
41) tert-Butyl Formate	7.164	59	2960102	415.44	ug/L	94
42) Propionitrile	7.311	54	423974	454.82	ug/L	95
43) Methacrylonitrile	7.334	41	1804940	471.64	ug/L	98
44) Benzene	7.334	78	1041149	45.77	ug/L	100
45) TAME	7.411	73	854754	42.14	ug/L	98
47) 1,2-Dichloroethane	7.522	62	416980	44.35	ug/L	99
48) Trichloroethene	7.910	95	283875	42.67	ug/L	96
49) Methylcyclohexane	7.934	83	498736	41.88	ug/L	97
50) Dibromomethane	8.333	93	177877	44.13	ug/L	94
51) 1,2-Dichloropropane	8.427	63	318506	45.03	ug/L	94
52) Bromodichloromethane	8.468	83	373478	42.34	ug/L	97
53) Methyl methacrylate	8.568	41	299767	46.20	ug/L	92
54) 2-Chloroethyl vinyl ether	8.985	63	986776	235.07	ug/L	98
55) cis-1,3-Dichloropropene	9.085	75	466719	43.15	ug/L	99
58) Toluene	9.332	91	1124250	46.56	ug/L	99
59) 2-Nitropropane	9.532	41	368983	231.75	ug/L	97
60) 4-Methyl-2-pentanone	9.649	43	1547951	241.02	ug/L	99
61) trans-1,3-Dichloropropene	9.714	75	439879	49.63	ug/L	92
62) Tetrachloroethene	9.737	166	259568	35.36	ug/L	97
63) Ethyl methacrylate	9.820	69	383474	45.72	ug/L	94
64) 1,1,2-Trichloroethane	9.878	83	217724	48.73	ug/L	87
65) Dibromochloromethane	10.078	129	266132	44.42	ug/L	93
66) 1,3-Dichloropropane	10.160	76	437204	44.21	ug/L	96
67) 1,2-Dibromoethane	10.337	107	249974	44.85	ug/L	97
68) 2-hexanone	10.466	43	1075781	245.49	ug/L	96
69) 1-Chlorohexane	10.772	91	388937	43.37	ug/L	95
70) Ethylbenzene	10.842	91	1231876	45.50	ug/L	98
71) Chlorobenzene	10.842	112	700237	42.16	ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.889	131	266326	43.49	ug/L	97
73) m,p-Xylene	10.977	91	1894629	86.31	ug/L	98
74) o-Xylene	11.418	91	1070019	43.10	ug/L	99
75) Styrene	11.465	104	804756	46.93	ug/L	97
76) Bromoform	11.524	173	168383	40.07	ug/L	95
77) Isopropylbenzene	11.723	105	1258466	43.51	ug/L	98
80) cis-1,4-Dichloro-2-butene	12.070	53	83596	38.73	ug/L	94
81) n-Propylbenzene	12.141	91	1531723	42.83	ug/L	97
82) Bromobenzene	12.164	156	325197	43.62	ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.199	83	336207	43.01	ug/L	99
84) 1,3,5-Trimethylbenzene	12.323	105	1071847	45.21	ug/L	100
85) 2-Chlorotoluene	12.329	91	1031468	42.39	ug/L	99
86) trans-1,4-Dichloro-2-B...	12.381	53	95988	40.38	ug/L	89
87) 1,2,3-Trichloropropane	12.364	110	89006	44.10	ug/L	87
88) Cyclohexanone	12.423	55	87051	284.83	ug/L	88
89) 4-Chlorotoluene	12.499	91	1002849	43.19	ug/L	99
90) a-Methyl Styrene	12.587	118	628917	42.49	ug/L	98

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 10:05:21 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.663	91	651886	42.18	ug/L	96
92) 1,2,4-Trimethylbenzene	12.734	105	1074831	45.76	ug/L	96
93) Pentachloroethane	12.716	167	201601	43.81	ug/L	96
94) sec-Butylbenzene	12.846	105	1390418	43.23	ug/L	96
95) 4-Isopropyltoluene	12.981	119	1162881	45.88	ug/L	99
96) 1,3-Dichlorobenzene	13.116	146	646937	42.60	ug/L	97
97) 1,4-Dichlorobenzene	13.198	146	634134	40.24	ug/L	97
98) n-Butylbenzene	13.410	92	727609	47.05	ug/L	95
99) Benzyl Chloride	13.427	126	133192	41.62	ug/L #	68
100) 1,2-Dichlorobenzene	13.627	146	627230	41.02	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.361	75	69025	44.61	ug/L	83
102) Hexachlorobutadiene	14.908	225	232820	36.11	ug/L	95
103) 1,2,4-Trichlorobenzene	14.955	180	454787	41.94	ug/L	98
104) Naphthalene	15.237	128	1072004	51.08	ug/L	99
105) 1,2,3-Trichlorobenzene	15.407	180	429672	42.69	ug/L	99
107) Ethanol	4.267	45	62473m	918.40	ug/L	
108) acrolein	4.731	56	262280	210.21	ug/L	92
109) Tert Butyl Alcohol	5.354	59	294966	387.88	ug/L	93
110) tert Amyl alcohol	7.552	59	236185	399.99	ug/L	99
111) Isobutyl alcohol	7.434	42	207757	871.00	ug/L	88
112) 1,4-Dioxane	8.645	88	47460	756.34	ug/L	96
113) 3,3-Dimethyl-1-butanol	10.413	57	1271156	2073.95	ug/L	99

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

7.6.12

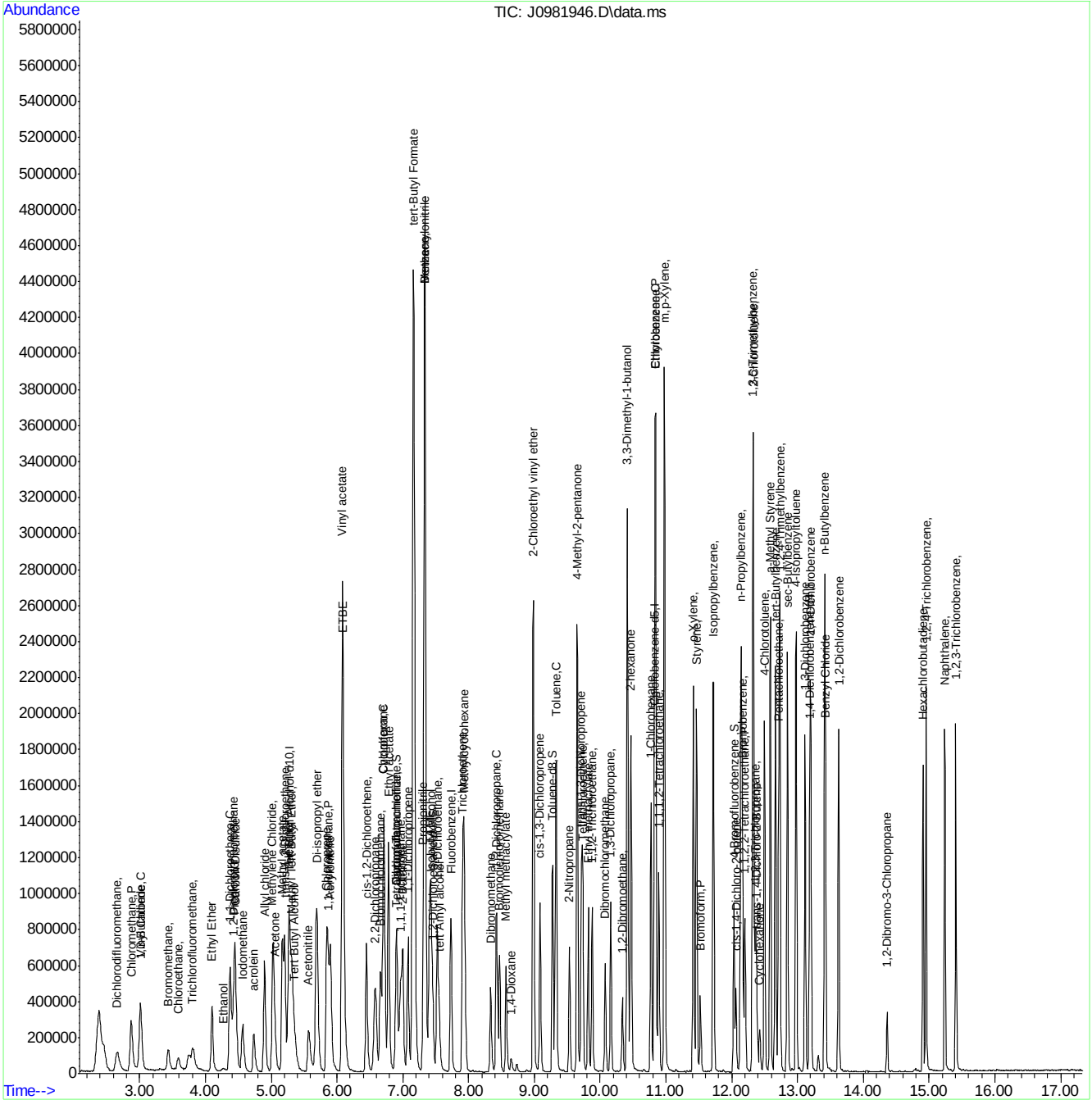
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 10:05:21 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



MSJ123016.M Thu Jan 05 08:01:49 2017 Page: 4

SGS ACCUTEST FA39907

Manual Integration Approval Summary

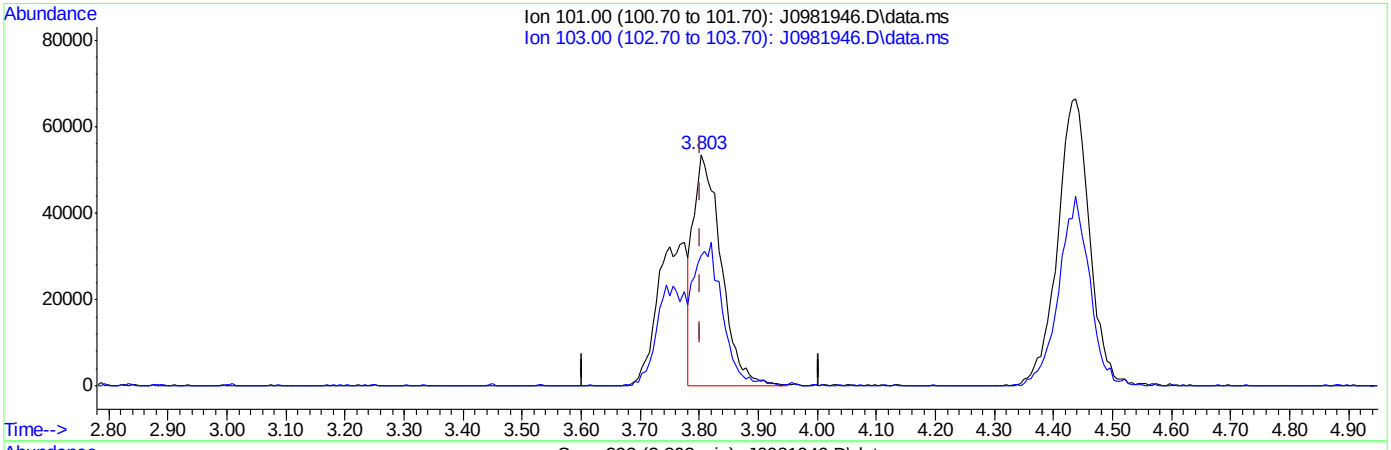
Sample Number:	VJ5532-CC5529	**Method:**	SW846 8260B
Lab FileID:	J0981946.D	**Analyst approved:**	01/04/17 10:07 Darshna Patel
Injection Time:	01/04/17 08:58	**Supervisor approved:**	01/05/17 11:16 Melissa Mangual

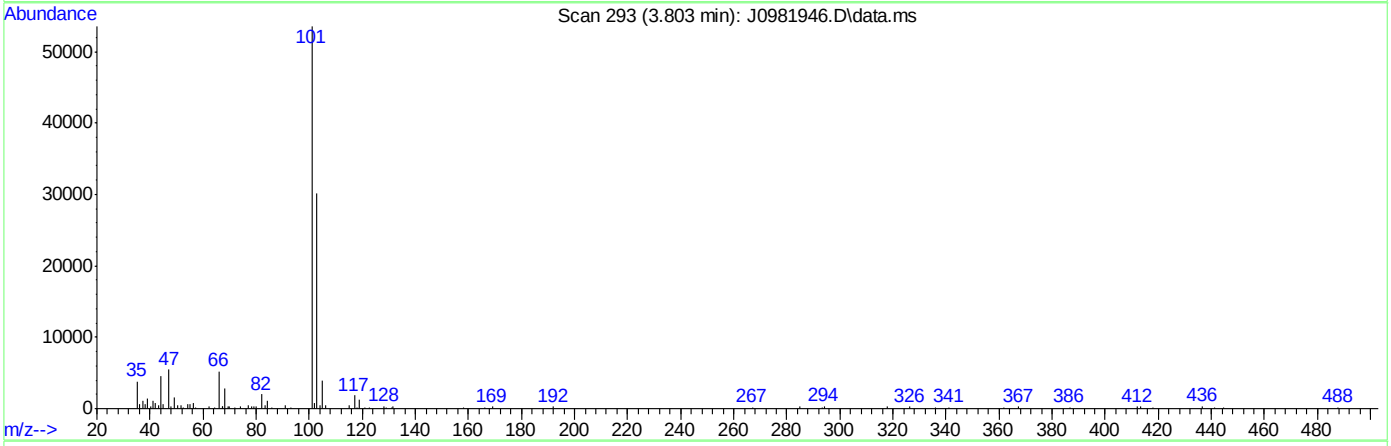
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
1,2-Dichlorotrifluoroethane	354-23-4		4.43	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 21.37ug/L

response 177145

Ion	Exp%	Act%
101.00	100	100
103.00	55.20	55.92
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
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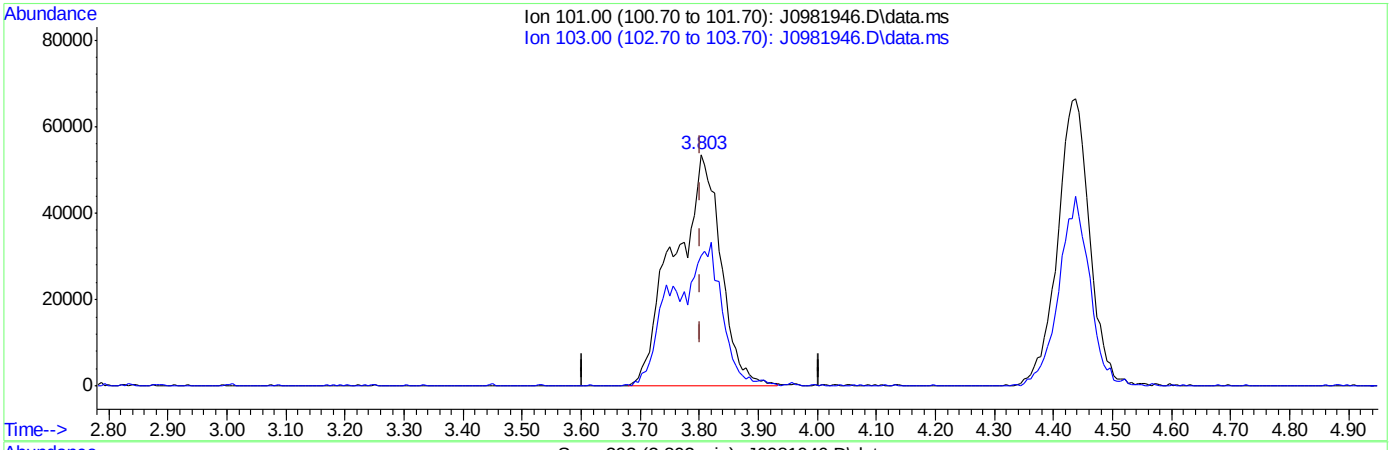
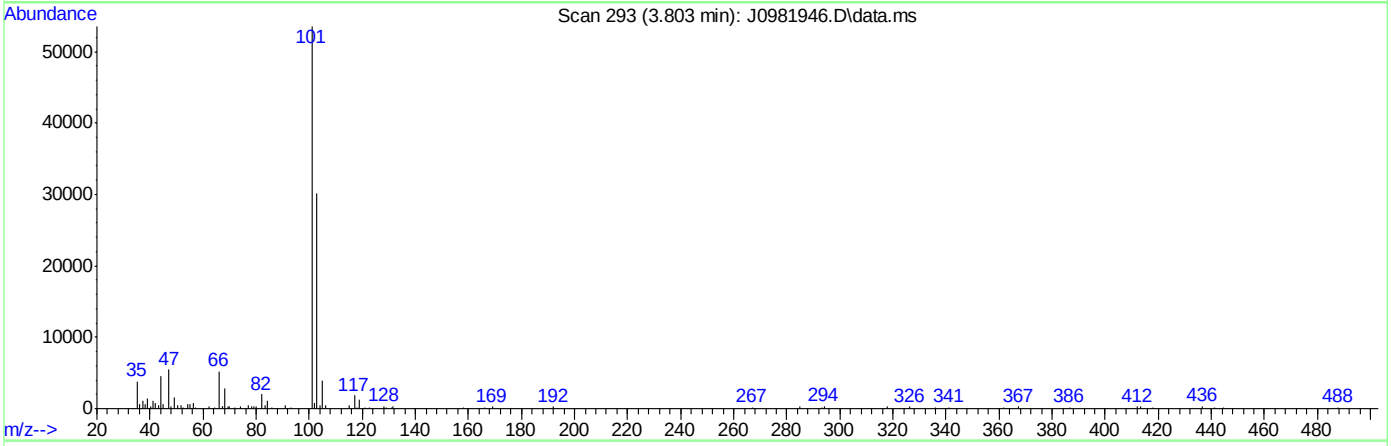
Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 35.36ug/L m

response 293145

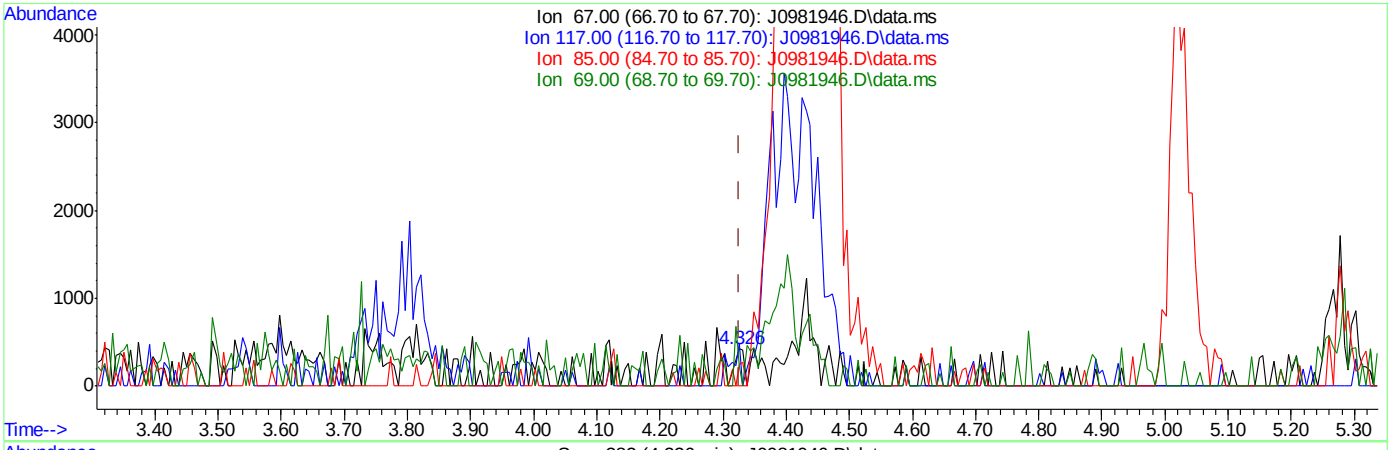
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	56.23
0.00	0.00	0.00
0.00	0.00	0.00

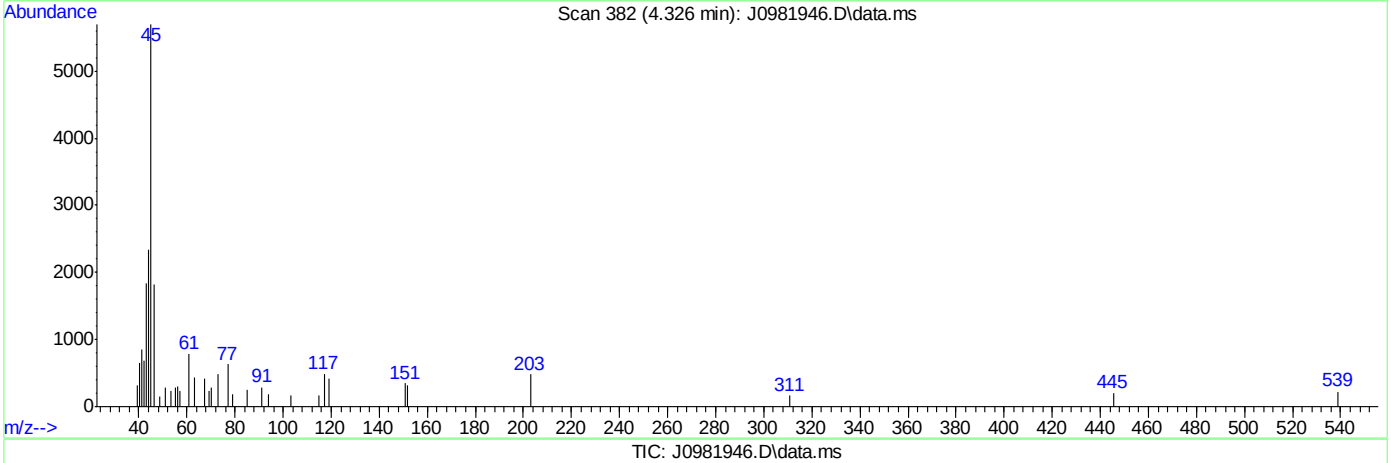
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.326min (+0.000) 0.06ug/L

response 456

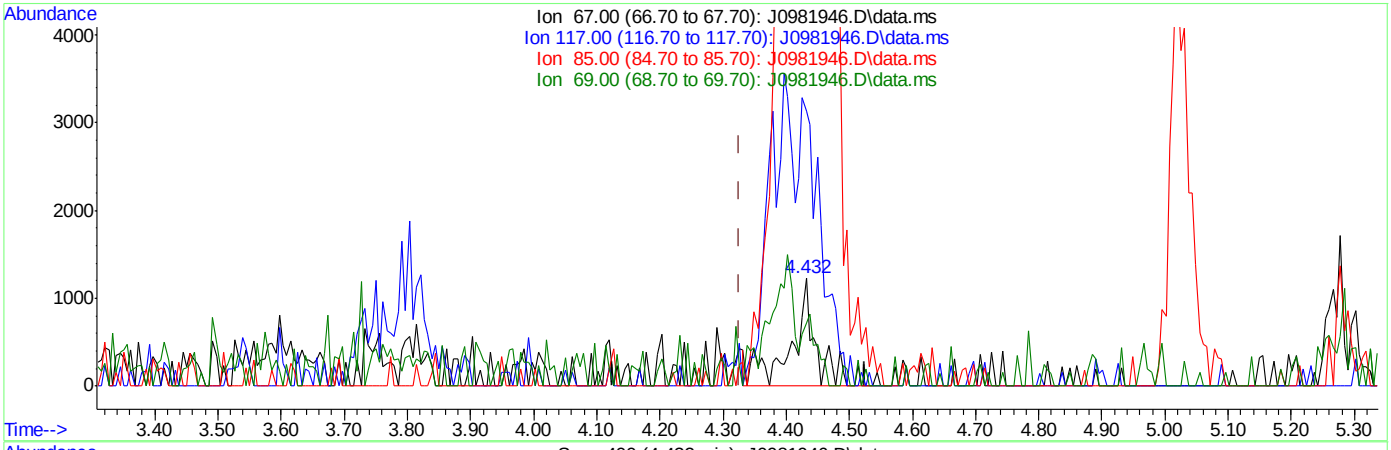
Ion	Exp%	Act%
67.00	100	100
117.00	66.40	67.70
85.00	34.80	59.86#
69.00	29.70	55.82#

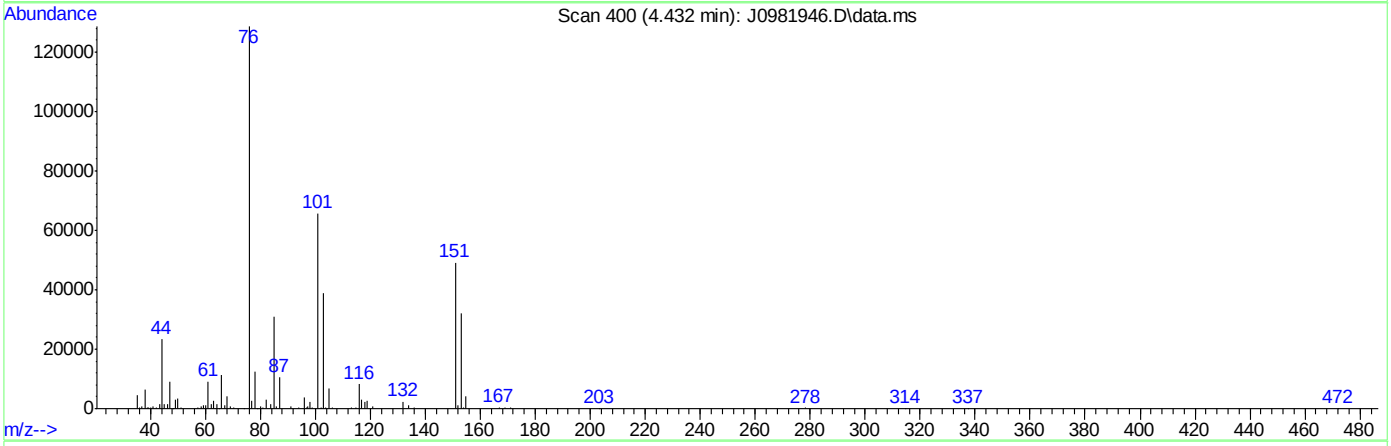
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.432min (+0.106) 0.45ug/L m

response 3401

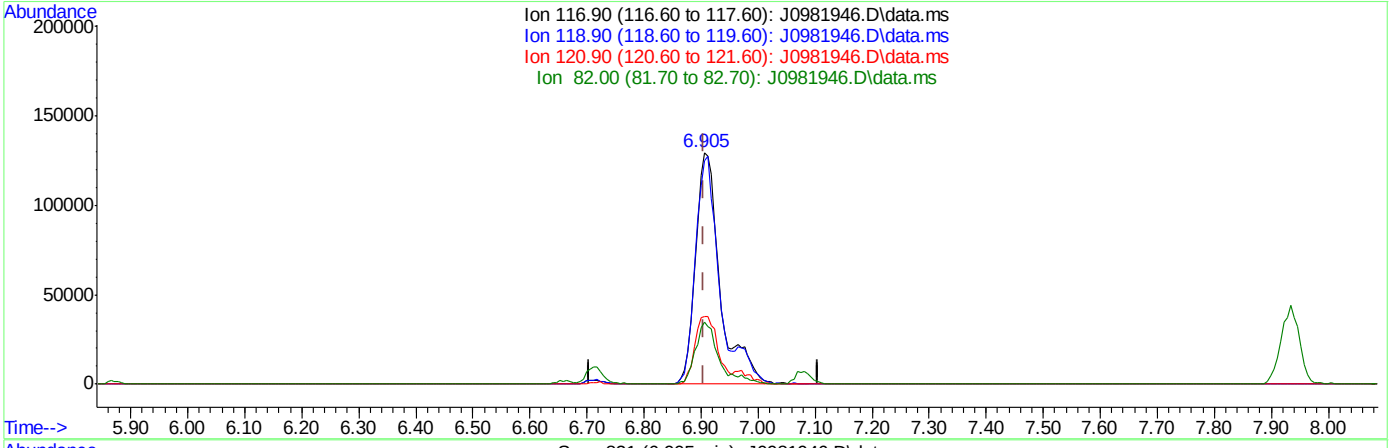
Ion	Exp%	Act%
67.00	100	100
117.00	66.40	254.51#
85.00	34.80	2505.93#
69.00	29.70	58.65#

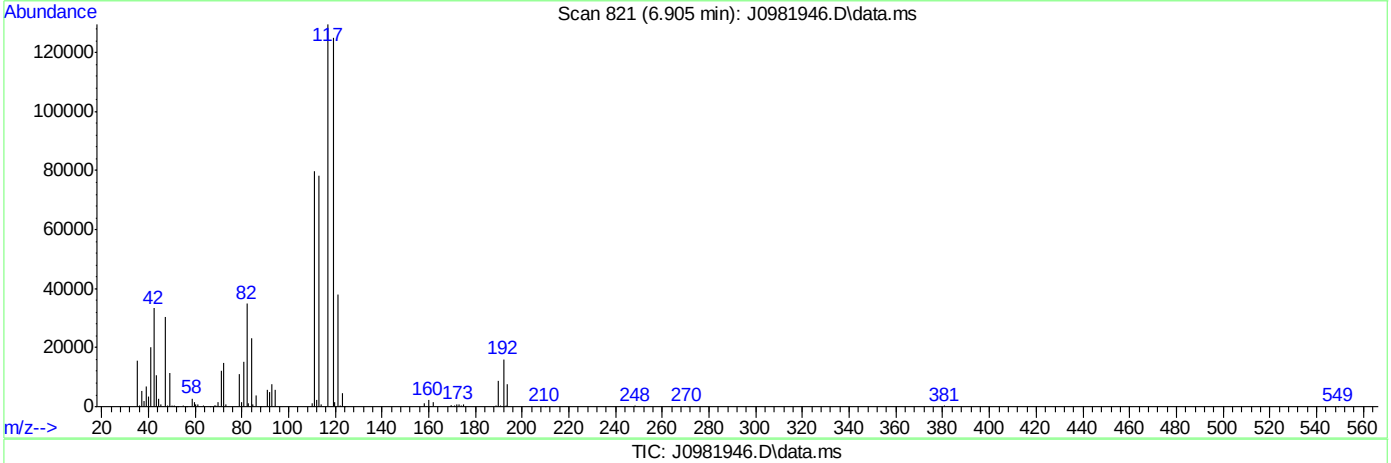
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 46.34ug/L

response 393051

Ion	Exp%	Act%
116.90	100	100
118.90	91.30	96.60
120.90	30.80	29.33
82.00	23.30	26.97

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
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Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
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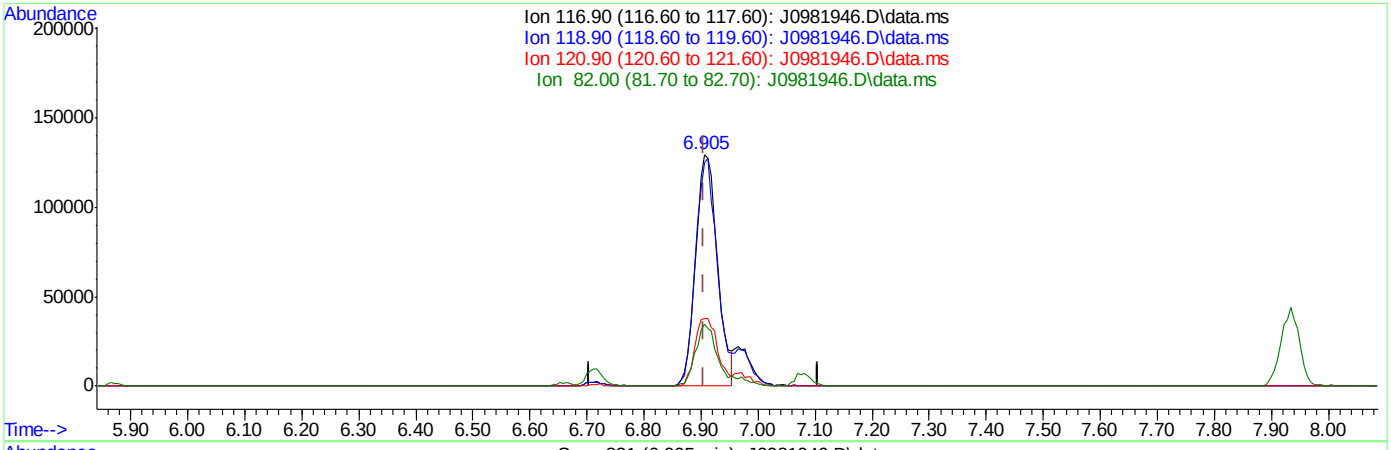

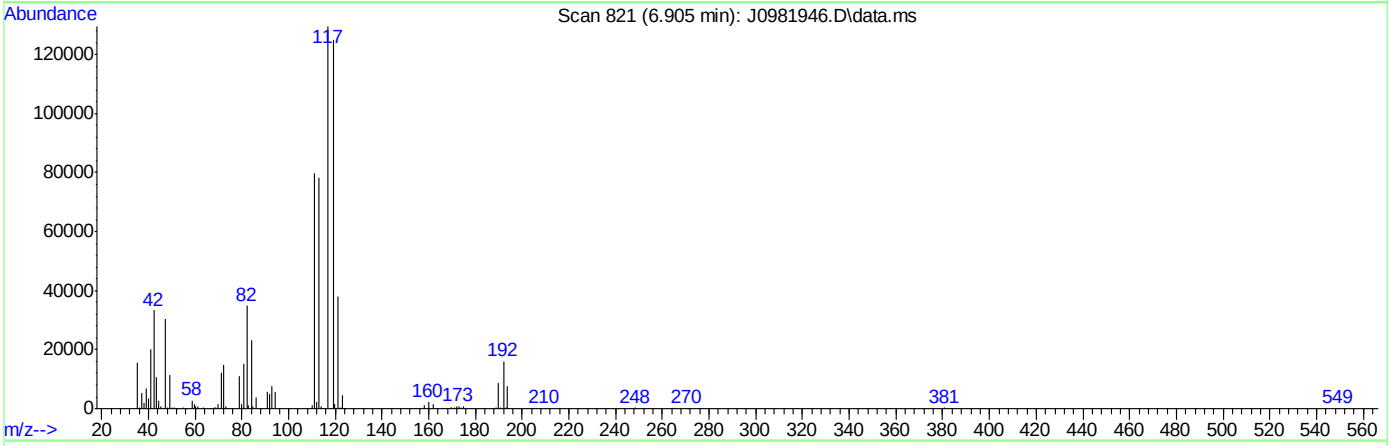

TIC: J0981946.D\data.ms

(37) Carbon Tetrachloride ( )

6.905min (+0.000) 40.51ug/L m

response 343574

Ion	Exp%	Act%
116.90	100	100
118.90	91.30	96.60
120.90	30.80	29.33
82.00	23.30	26.97

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

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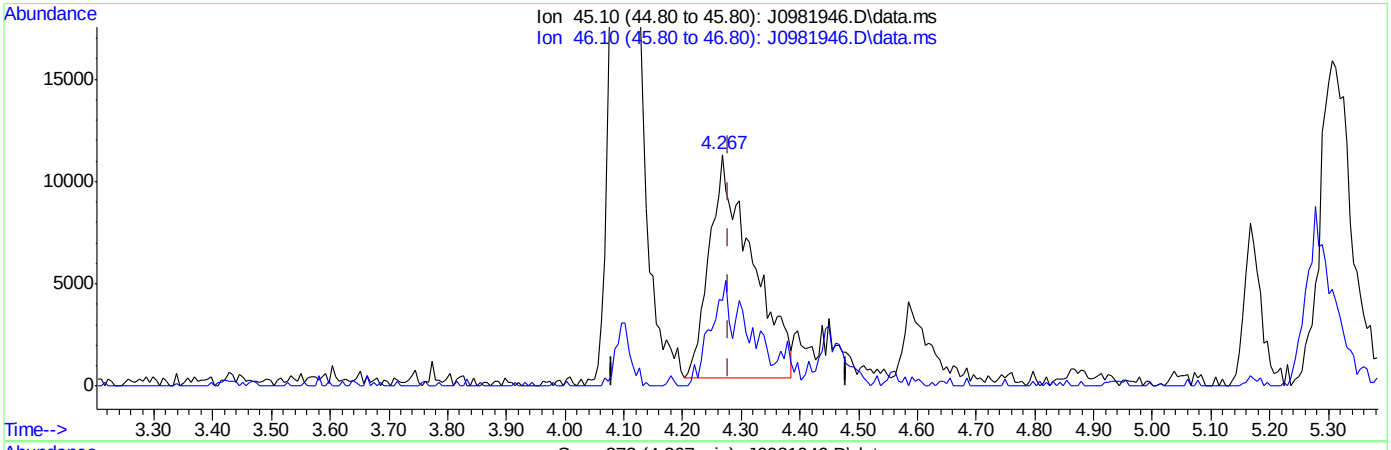
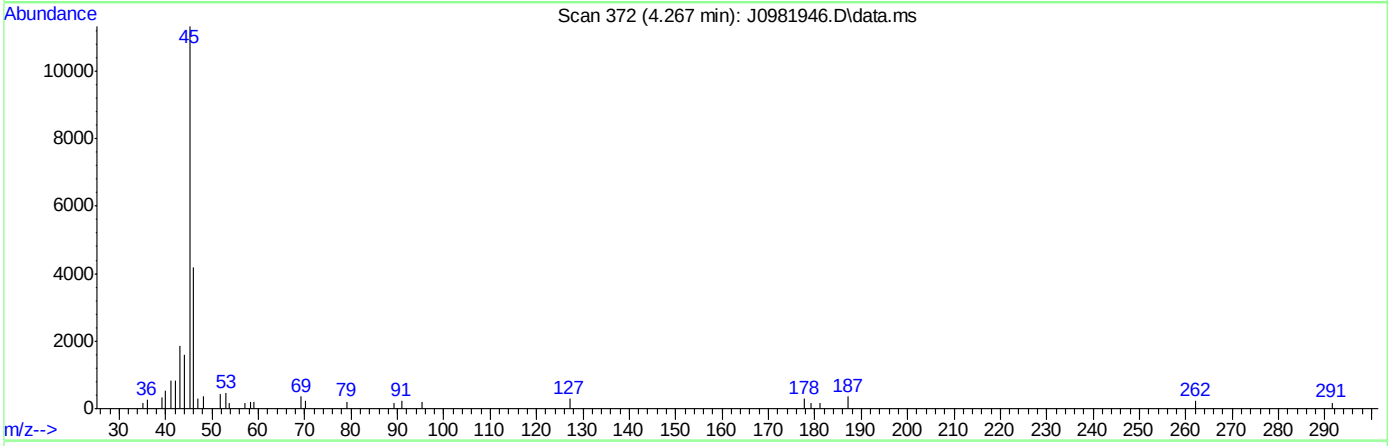
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981946.D\data.ms

(107) Ethanol

4.267min (-0.012) 806.17ug/L

response 54835

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	38.44
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981946.D
Acq On : 4 Jan 2017 8:58 am
Operator : darshnap
Sample : CC5529-5 Inst : MSVOA6
Misc : MS35986,VJ5532,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 04 09:22:23 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
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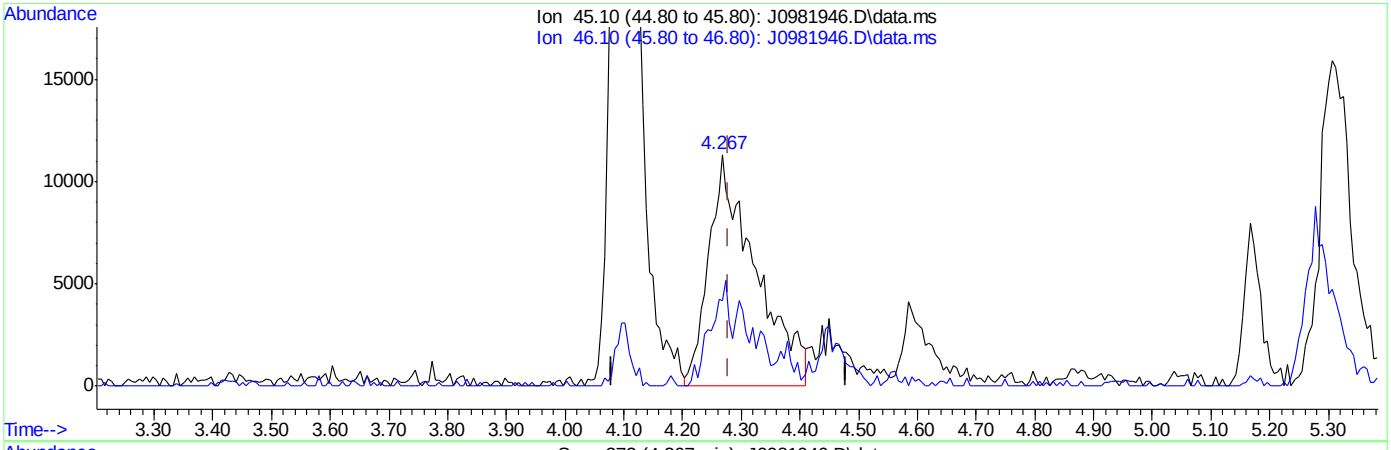
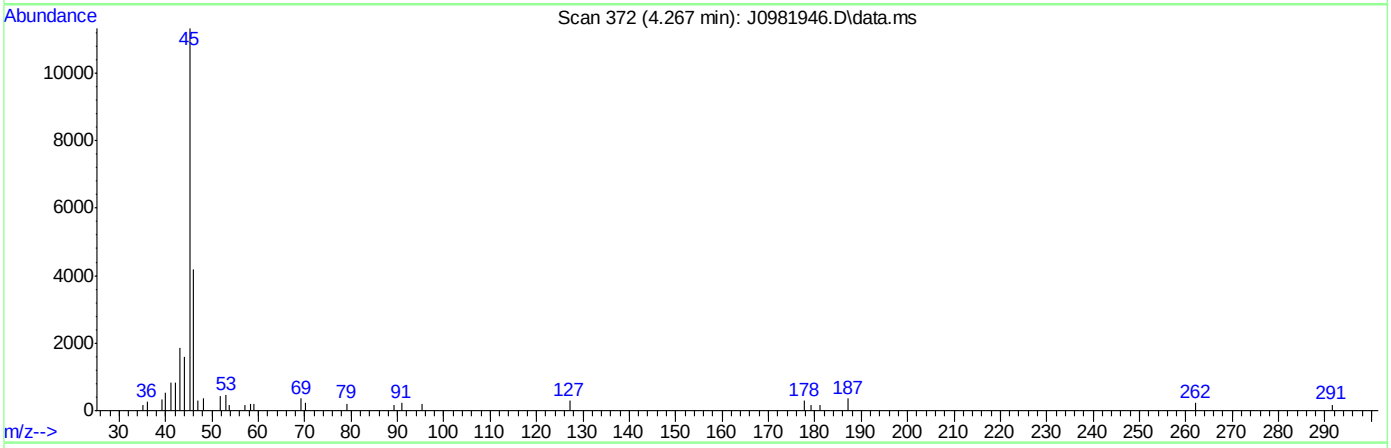




TIC: J0981946.D\data.ms

(107) Ethanol

4.267min (-0.012) 918.40ug/L m

response 62473

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	37.06
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
01/05/17 11:20

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 08:01:11 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	527220	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.824	117	369693	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.181	152	201240	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	67149	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	118506	47.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.22%			
46) 1,2-Dichloroethane-d4	7.458	65	186548	55.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.46%			
57) Toluene-d8	9.279	98	497260	50.65	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.30%			
79) 4-Bromofluorobenzene	12.035	95	210339	52.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.652	85	259275	45.22	ug/L	92
3) Chloromethane	2.869	50	411178	49.50	ug/L	91
4) Vinyl Chloride	3.016	62	250464	49.66	ug/L	93
5) 1,3-Butadiene	3.010	54	159930	49.85	ug/L	89
6) Bromomethane	3.433	94	93567	34.58	ug/L	89
7) Chloroethane	3.586	64	72483	38.20	ug/L	97
8) Trichlorofluoromethane	3.803	101	265049m	43.22	ug/L	
9) Ethyl Ether	4.097	59	204430	45.70	ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.326	67	260485	47.09	ug/L	90
11) 1,1-Dichloroethene	4.373	61	362881	47.17	ug/L	93
12) Freon 113	4.438	101	207180	44.35	ug/L	90
13) Carbon Disulfide	4.455	76	720548	44.87	ug/L	93
14) Iodomethane	4.567	142	303963	37.20	ug/L	96
15) Allyl chloride	4.902	41	434778	47.15	ug/L	95
16) Methylene Chloride	5.025	49	396006	49.22	ug/L	91
17) Acetone	5.049	58	102903	242.57	ug/L #	79
18) Methyl acetate	5.166	74	161524	241.89	ug/L #	88
19) trans-1,2-Dichloroethene	5.207	61	339565	45.44	ug/L	94
20) Hexane	5.272	56	224756	46.55	ug/L #	87
21) Methyl Tert Butyl Ether	5.307	73	658188	44.36	ug/L	87
22) Acetonitrile	5.578	40	178005	516.71	ug/L #	86
23) Di-isopropyl ether	5.689	45	988713	49.60	ug/L	95
24) Chloroprene	5.848	53	408901	47.75	ug/L	94
25) 1,1-Dichloroethane	5.871	63	409266	45.78	ug/L	91
26) Acrylonitrile	5.901	53	477421	255.70	ug/L	97
27) ETBE	6.089	59	825773	44.91	ug/L	97
28) Vinyl acetate	6.083	43	2979503	273.70	ug/L	98
29) cis-1,2-Dichloroethene	6.453	96	231811	41.99	ug/L	96
30) 2,2-Dichloropropane	6.576	77	301623	39.27	ug/L	97
31) Bromochloromethane	6.659	128	101684	40.16	ug/L #	81
32) Cyclohexane	6.712	56	454890	45.34	ug/L	94
33) Chloroform	6.712	83	383565	42.29	ug/L	97
34) Ethyl acetate	6.782	43	1283787	278.16	ug/L	97

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 08:01:11 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	80804	53.41 ug/L	92
37) Carbon Tetrachloride	6.911	117	243095m	38.74 ug/L	
38) 1,1,1-Trichloroethane	6.970	97	338365	42.64 ug/L	96
39) 2-Butanone	6.999	43	540721	244.40 ug/L	97
40) 1,1-Dichloropropene	7.082	75	289582	45.14 ug/L	88
41) tert-Butyl Formate	7.164	59	2155902	409.05 ug/L	90
42) Propionitrile	7.305	54	338614	491.08 ug/L	83
43) Methacrylonitrile	7.334	41	1550756	563.54 ug/L	97
44) Benzene	7.334	78	745882	44.32 ug/L	90
45) TAME	7.411	73	675856	45.05 ug/L	98
47) 1,2-Dichloroethane	7.522	62	316850	45.56 ug/L	93
48) Trichloroethene	7.910	95	212747	43.23 ug/L	95
49) Methylcyclohexane	7.934	83	397591	45.14 ug/L	90
50) Dibromomethane	8.339	93	133017	44.62 ug/L	91
51) 1,2-Dichloropropane	8.427	63	247801	47.36 ug/L	91
52) Bromodichloromethane	8.474	83	277128	42.47 ug/L	98
53) Methyl methacrylate	8.568	41	249982	52.35 ug/L	92
54) 2-Chloroethyl vinyl ether	8.985	63	765412	246.50 ug/L	97
55) cis-1,3-Dichloropropene	9.085	75	357392	44.67 ug/L	96
58) Toluene	9.332	91	805257	43.96 ug/L	98
59) 2-Nitropropane	9.532	41	302091	250.06 ug/L	94
60) 4-Methyl-2-pentanone	9.649	43	1290198	267.65 ug/L	95
61) trans-1,3-Dichloropropene	9.714	75	303374	45.11 ug/L	95
62) Tetrachloroethene	9.738	166	202304	36.33 ug/L	93
63) Ethyl methacrylate	9.820	69	314794	49.47 ug/L	95
64) 1,1,2-Trichloroethane	9.879	83	159330	47.00 ug/L	97
65) Dibromochloromethane	10.078	129	183053	40.27 ug/L	97
66) 1,3-Dichloropropane	10.161	76	351213	46.80 ug/L	92
67) 1,2-Dibromoethane	10.337	107	190716	45.10 ug/L	95
68) 2-hexanone	10.466	43	895008	269.18 ug/L	93
69) 1-Chlorohexane	10.772	91	314342	46.20 ug/L	93
70) Ethylbenzene	10.842	91	903920	44.00 ug/L	100
71) Chlorobenzene	10.842	112	537153	42.62 ug/L	92
72) 1,1,1,2-Tetrachloroethane	10.895	131	188480	40.57 ug/L	96
73) m,p-Xylene	10.977	91	1461198	87.92 ug/L	100
74) o-Xylene	11.418	91	844593	44.84 ug/L	98
75) Styrene	11.465	104	580819	44.64 ug/L	94
76) Bromoform	11.524	173	112625	35.33 ug/L	94
77) Isopropylbenzene	11.723	105	969990	44.20 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.064	53	52217	32.39 ug/L #	76
81) n-Propylbenzene	12.141	91	1217592	45.58 ug/L	93
82) Bromobenzene	12.164	156	222448	39.95 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.199	83	265031	45.39 ug/L	94
84) 1,3,5-Trimethylbenzene	12.323	105	788753	44.54 ug/L	98
85) 2-Chlorotoluene	12.329	91	810868	44.61 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.376	53	56105	31.60 ug/L #	55
87) 1,2,3-Trichloropropane	12.364	110	69041	45.80 ug/L	86
88) Cyclohexanone	12.423	55	48214	209.53 ug/L	90
89) 4-Chlorotoluene	12.499	91	799977	46.12 ug/L	99
90) a-Methyl Styrene	12.587	118	521004	47.13 ug/L	95

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 08:01:11 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.664	91	530535	45.96	ug/L		90
92)	1,2,4-Trimethylbenzene	12.734	105	796431	45.40	ug/L		94
93)	Pentachloroethane	12.716	167	133472	38.83	ug/L		97
94)	sec-Butylbenzene	12.846	105	1103851	45.95	ug/L		93
95)	4-Isopropyltoluene	12.981	119	851484	44.97	ug/L		93
96)	1,3-Dichlorobenzene	13.116	146	490276	43.23	ug/L		96
97)	1,4-Dichlorobenzene	13.198	146	493084	41.89	ug/L		96
98)	n-Butylbenzene	13.410	92	536291	46.42	ug/L		96
99)	Benzyl Chloride	13.427	126	86281	36.09	ug/L	#	53
100)	1,2-Dichlorobenzene	13.627	146	481112	42.12	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.362	75	50080	43.34	ug/L		84
102)	Hexachlorobutadiene	14.908	225	166786	34.63	ug/L		98
103)	1,2,4-Trichlorobenzene	14.955	180	318836	39.36	ug/L		97
104)	Naphthalene	15.237	128	731466	46.66	ug/L		98
105)	1,2,3-Trichlorobenzene	15.407	180	294703	39.20	ug/L		97
107)	Ethanol	4.267	45	54056m	1062.04	ug/L		
108)	acrolein	4.737	56	230211	246.61	ug/L		97
109)	Tert Butyl Alcohol	5.366	59	231468	406.83	ug/L		93
110)	tert Amyl alcohol	7.552	59	195128	441.68	ug/L		95
111)	Isobutyl alcohol	7.428	42	175898	985.64	ug/L	#	85
112)	1,4-Dioxane	8.651	88	38644	823.13	ug/L		95
113)	3,3-Dimethyl-1-butanol	10.413	57	982346	2142.19	ug/L		95

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

7.6.13

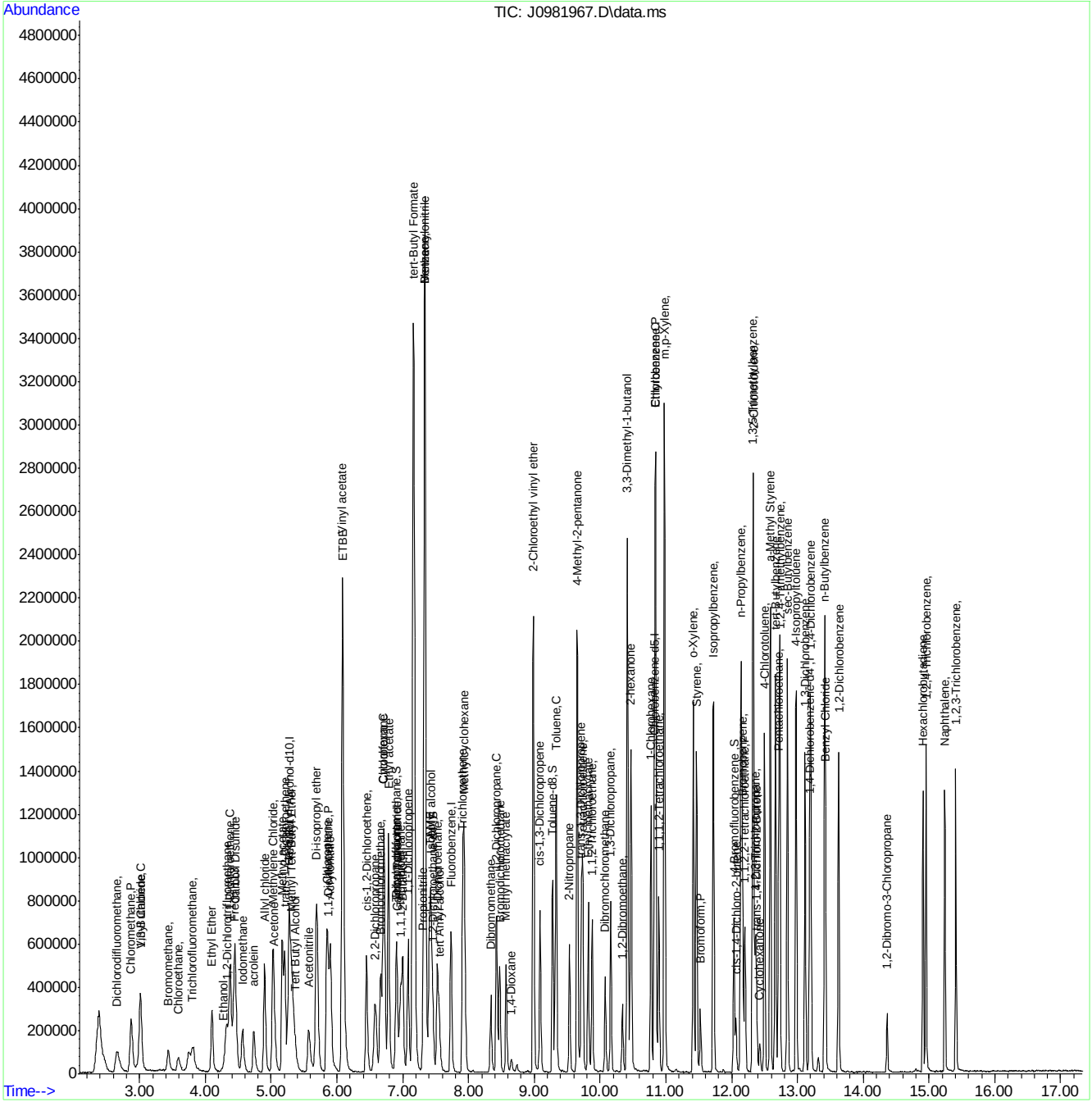
7

SGS ACCUTEST FA39907

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 08:01:11 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration



SGS ACCUTEST FA39907

Manual Integration Approval Summary

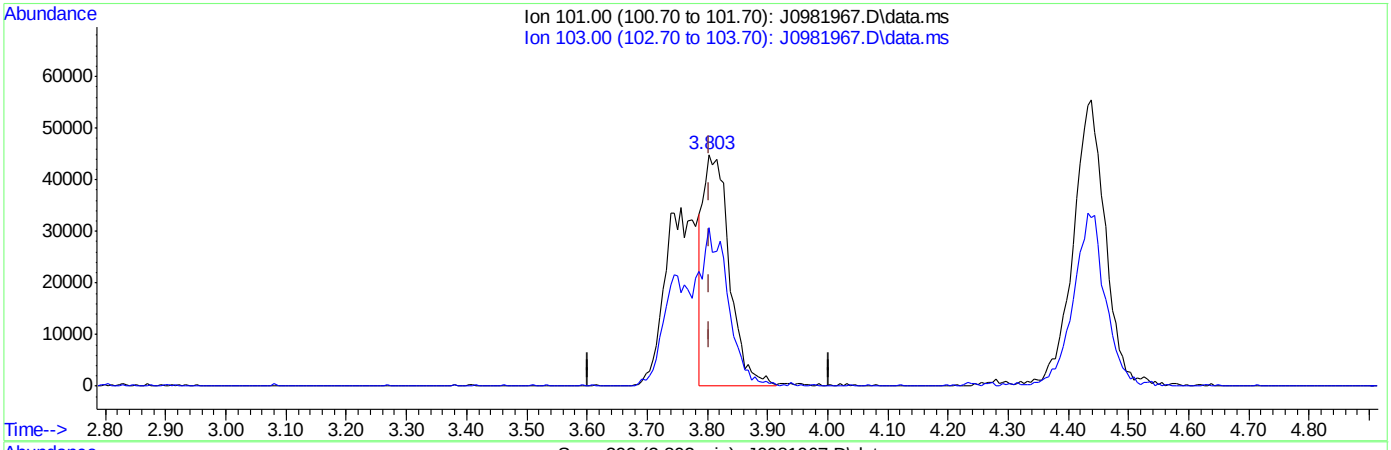
Sample Number:	VJ5532-ECC5529	**Method:**	SW846 8260B
Lab FileID:	J0981967.D	**Analyst approved:**	01/05/17 09:27 Darshna Patel
Injection Time:	01/04/17 18:04	**Supervisor approved:**	01/05/17 11:20 Melissa Mangual

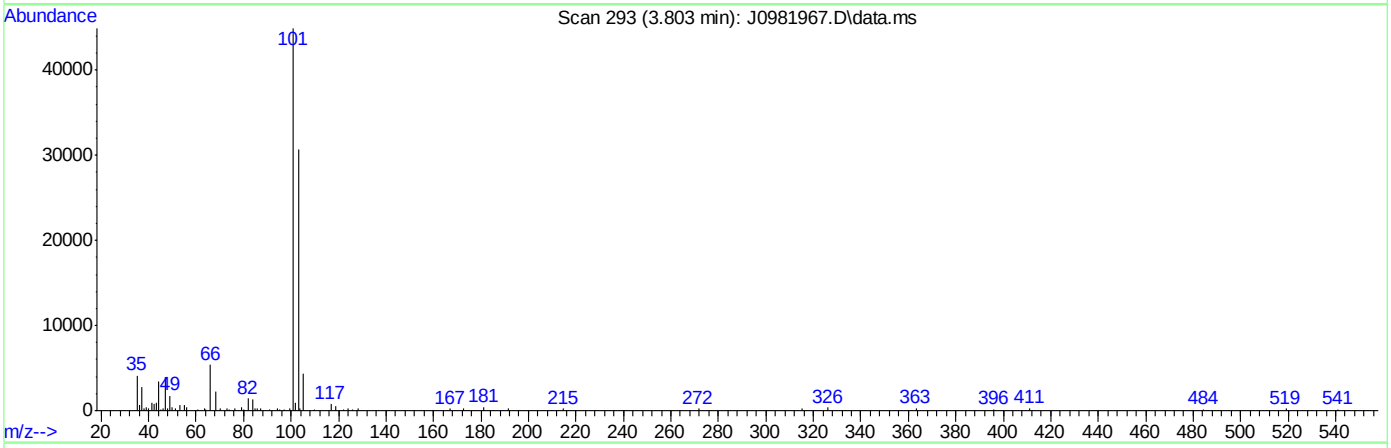
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 07:40:57 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981967.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 22.31ug/L

response 136827

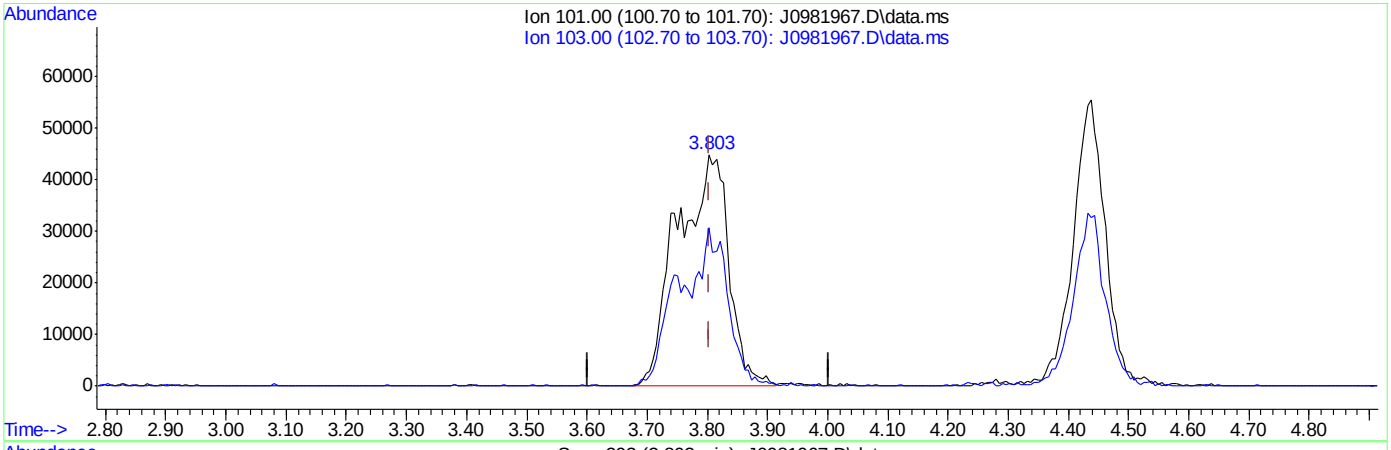
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	68.32
0.00	0.00	0.00
0.00	0.00	0.00

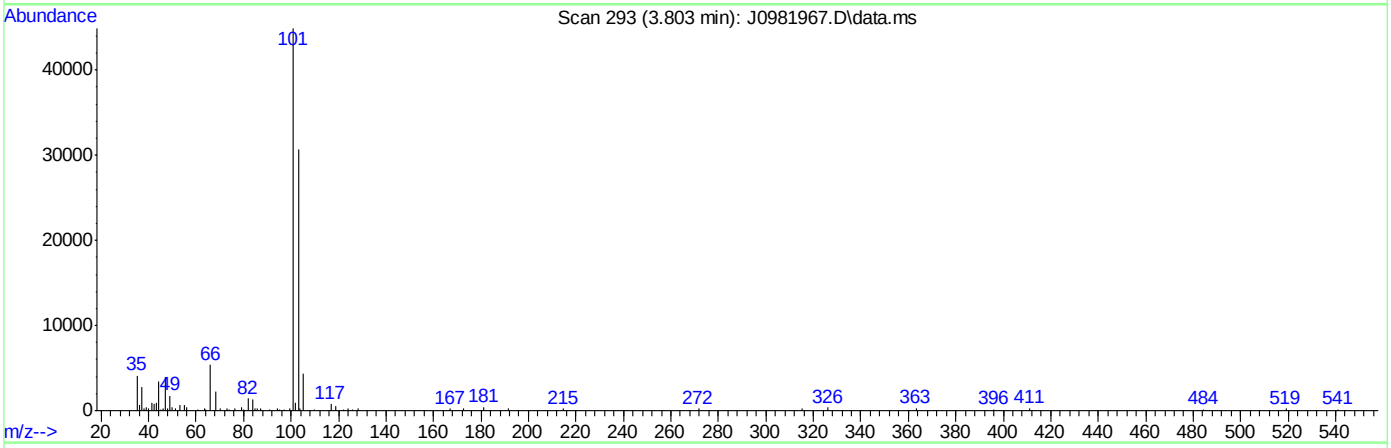
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 07:40:57 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981967.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (+0.000) 43.22ug/L m

response 265049

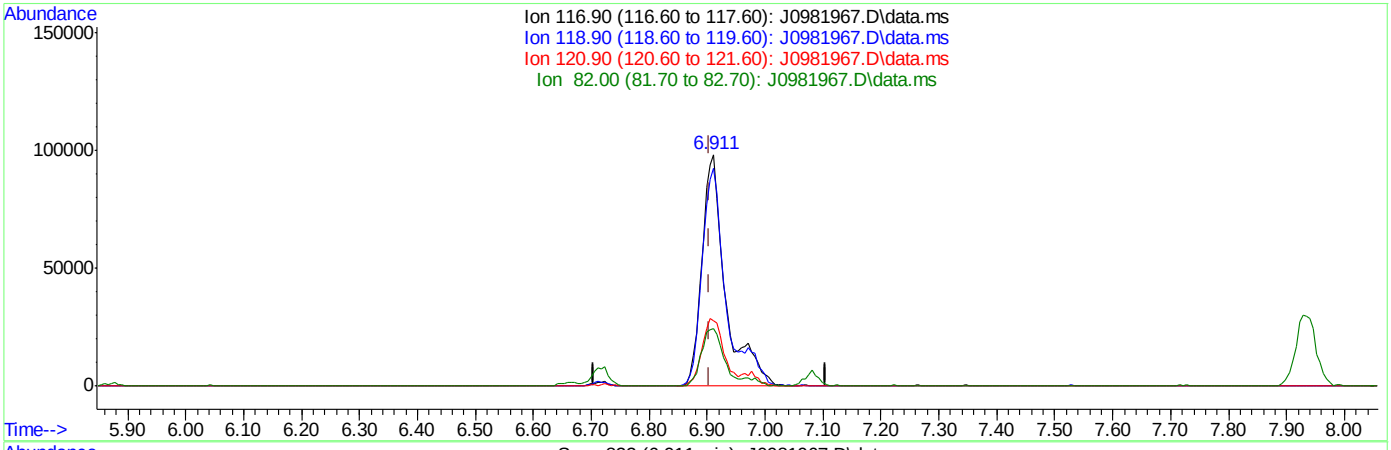
Ion	Exp%	Act%
101.00	100	100
103.00	55.20	68.42
0.00	0.00	0.00
0.00	0.00	0.00

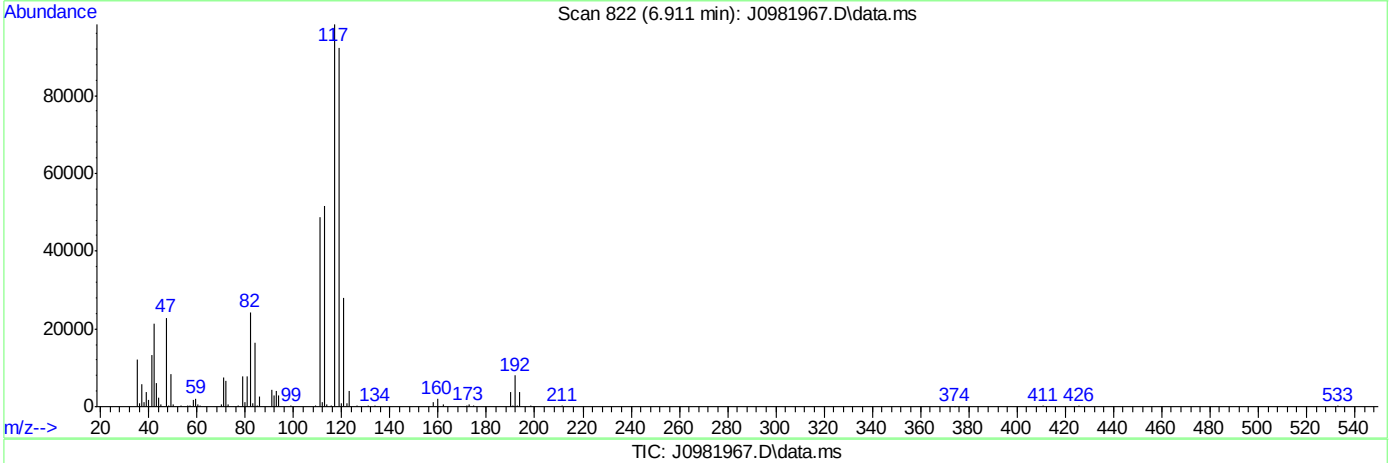
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 07:40:57 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981967.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 44.83ug/L

response 281301

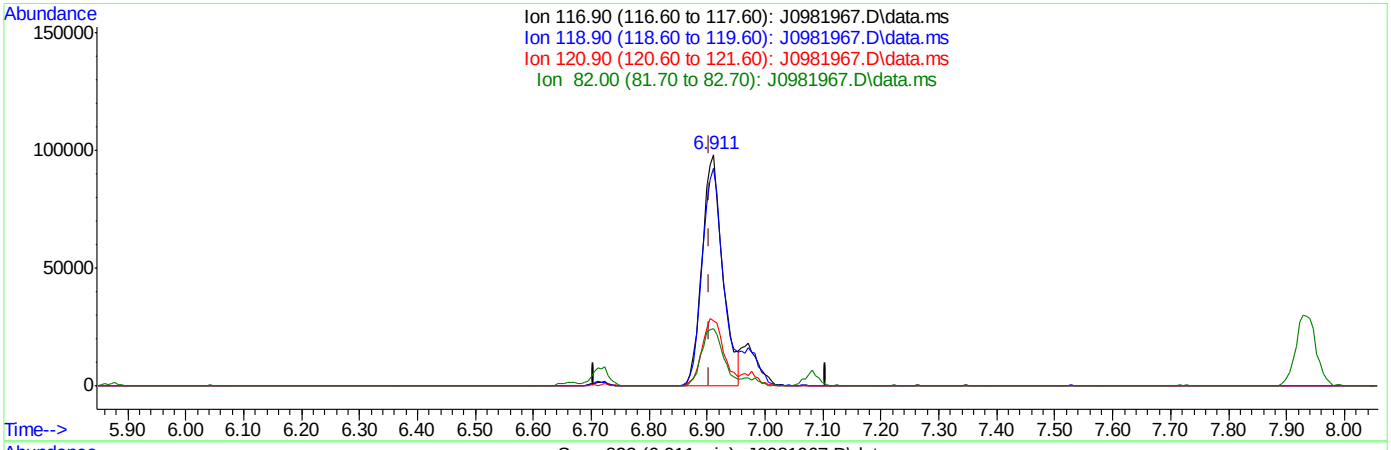
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	93.85
120.90	30.80	28.34
82.00	23.30	24.68

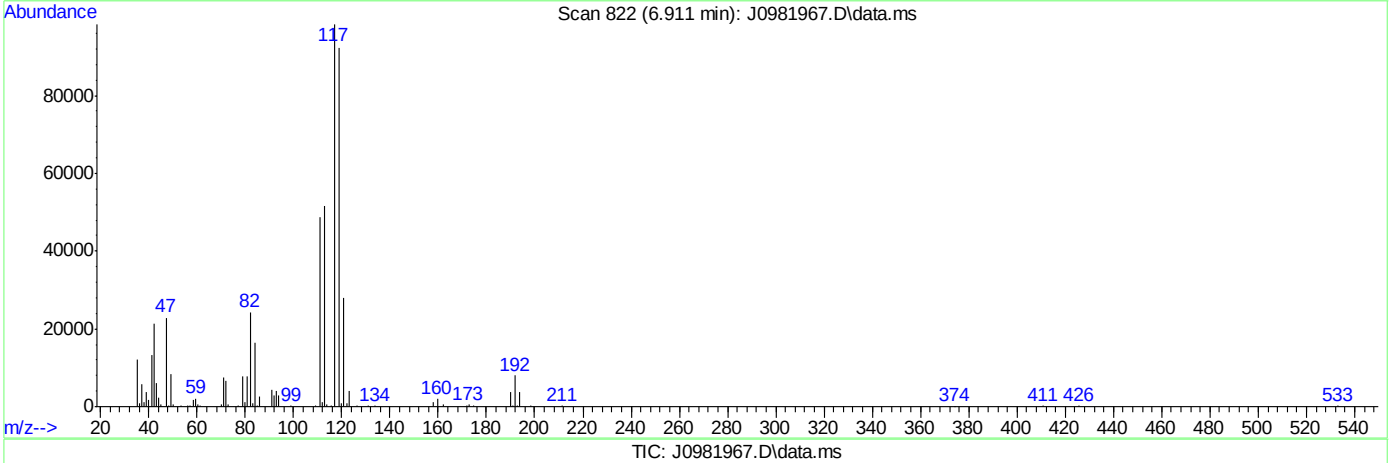
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 07:40:57 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981967.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (+0.006) 38.74ug/L m

response 243095

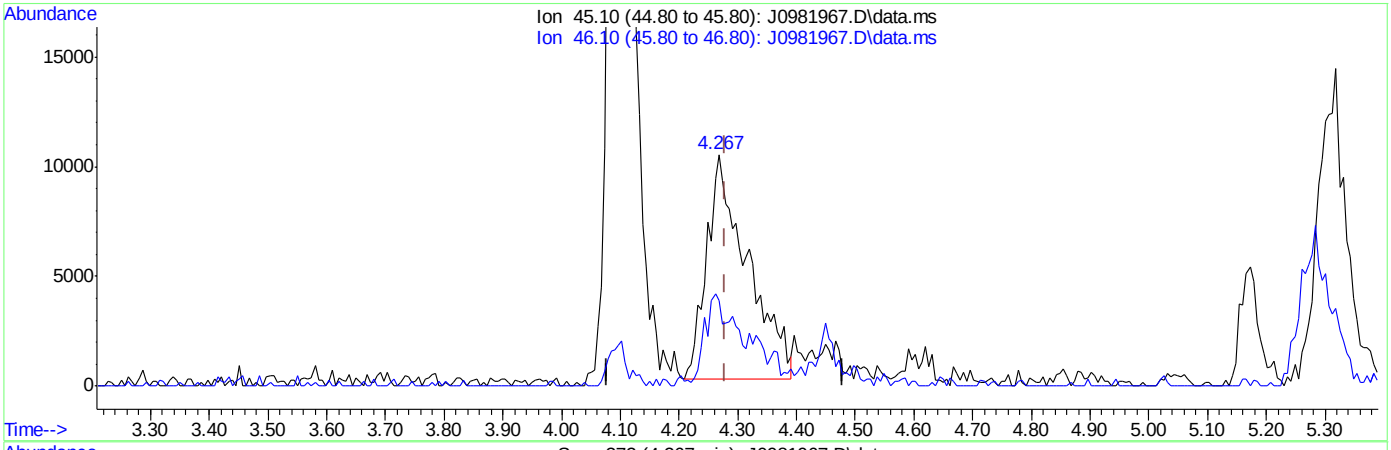
Ion	Exp%	Act%
116.90	100	100
118.90	91.30	93.85
120.90	30.80	28.34
82.00	23.30	24.68

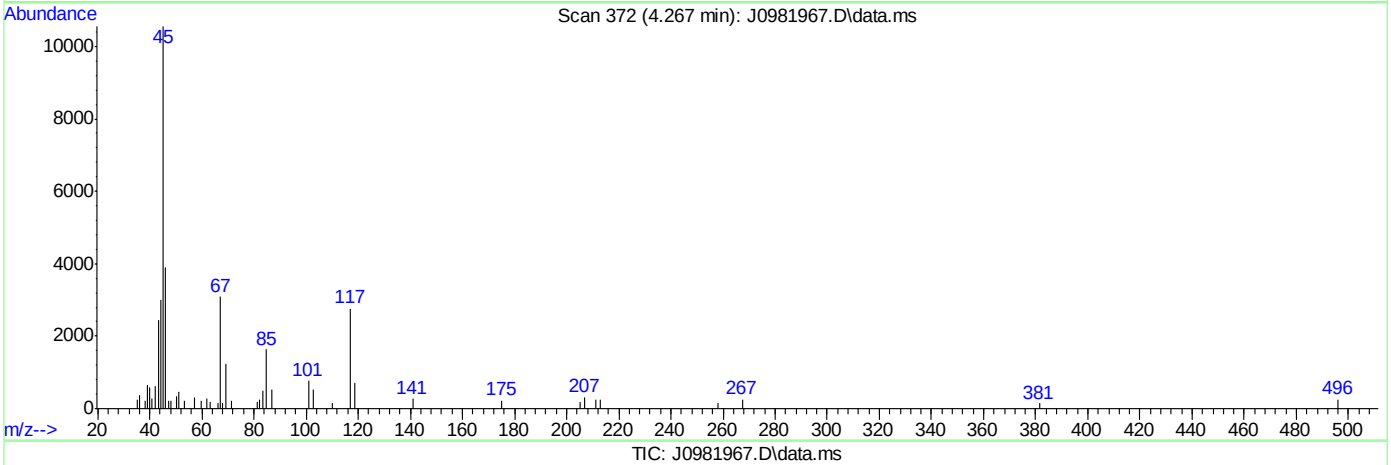
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 07:40:57 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981967.D\data.ms

(107) Ethanol

4.267min (-0.012) 965.04ug/L

response 49116

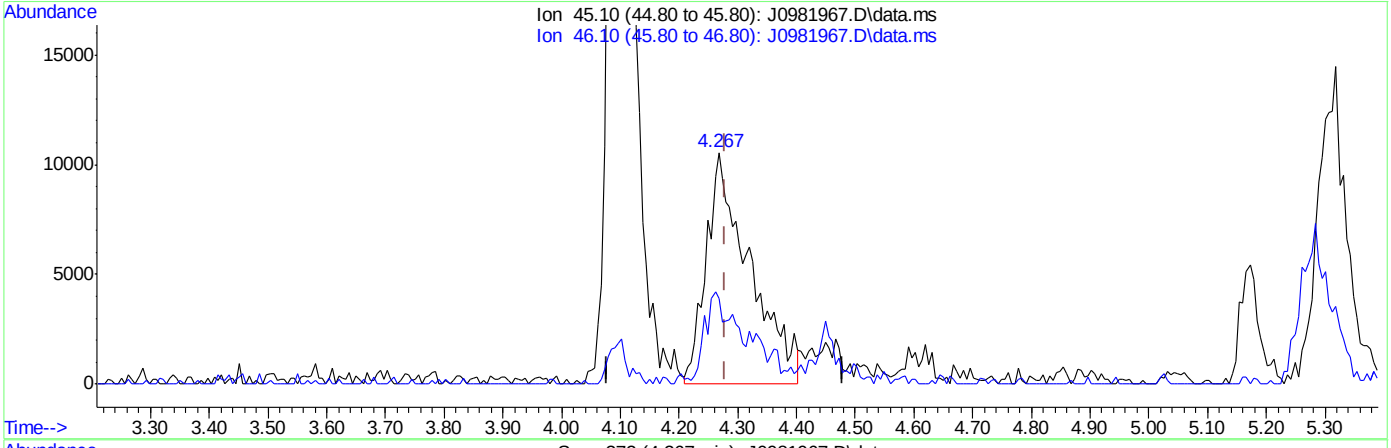
Ion	Exp%	Act%
45.10	100	100
46.10	41.60	36.10
0.00	0.00	0.00
0.00	0.00	0.00

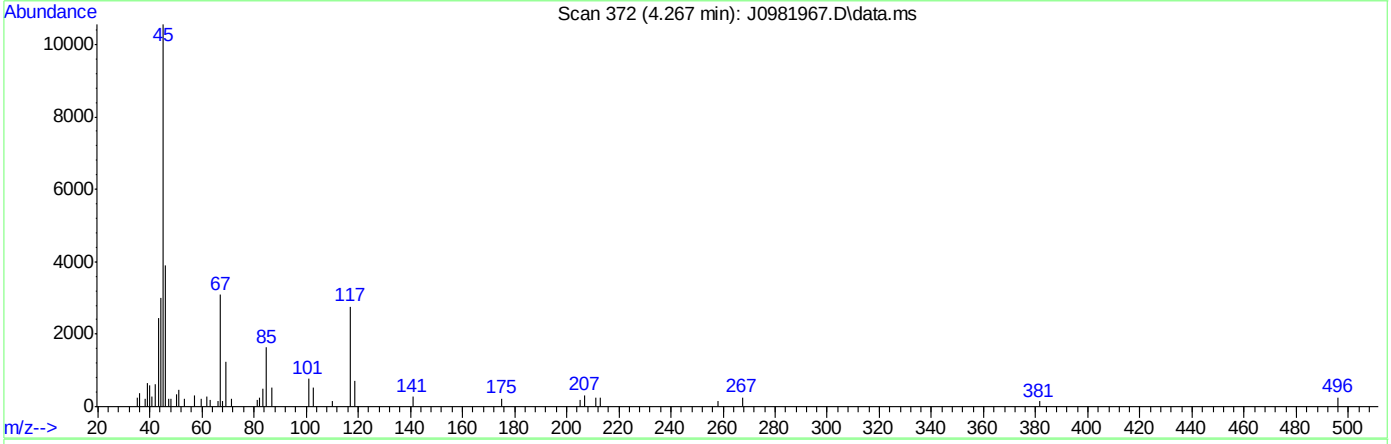
SGS ACCUTEST FA39907

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\010417\
Data File : J0981967.D
Acq On : 4 Jan 2017 6:04 pm
Operator : darshnap
Sample : ecc5529-5 Inst : MSVOA6
Misc : MS35997,VJ5532,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jan 05 07:40:57 2017
Quant Method : C:\msdchem\1\methods\MSJ123016.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jan 03 08:23:52 2017
Response via : Initial Calibration





TIC: J0981967.D\data.ms

(107) Ethanol

4.267min (-0.012) 1062.04ug/L m

response 54056

Ion	Exp%	Act%
45.10	100	100
46.10	41.60	37.05
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA39907

SGS ACCUTEST-ORLANDO

DATE:	12-30-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	65
ANALYST:	Melissa Hargett

1-12 pH
Lot 200814
0-3 pH
Lot 230315

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS123016.M
CALIB. DATE:	12-30-16
EM VOLTAGE:	1635V
BFB RESPONSE:	1296629 / 1217746
RUN ID:	VJ5529

STANDARDS

BFB:	V21166
ICAL/CCV:	V21269, V21243, V21262, V21207, V21226, V21126, V21263, V21130
ISTD/SURR:	V21166
ICV/QC:	V21257, V21241, V21223, V21213, V21214
Purge Volume:	5mL V21221, V21168, V21167

QC

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 1081823	Blank	–	(W)	1	8260		–	–		–
J 74	Blank			1			N/A	N/A		–
J 75	Blank/BFB.			1						Pass as authorized.
J 76	IC5529-1			1		PII(6,7,8 12 53, 88, 1,4097, 108,109				1uL (-) 100mL
J 77	-2			2		PII(107) OP(37)				5uL (-) 100mL
J 78	-3			3		PII(107 OP(37)				10uL (-) 100mL
J 79	-4			4		PII(107 OP(37)				25uL (-) 100mL
J 80	-5			5		PII(107 OP(37)				20uL (-) ~~100mL~~ 50mL
J 81	-6			6		PII(107 OP(37)				35uL (-) 50mL 12-30-16.
J 82	-7			7		PII(107) OP(37)				50uL (-) 50mL
J 83	Blank			8		PII(107) OP(37)				PASS ~~AFB~~ [illegible]
J 84	IC5529-5			9		SP(2) PII(107) OP(37)				25uL (-) 50mL ✓
J 85	Blank/BFB			10						BFB Auto ✓
J 86	Blank			10						✓
J 87	CC5529-5			1		SP(2) PII(107) OP(37)				20uL (-) 50mL ✓
J 88	B5			2		SP(2) PII(107) OP(37)				12.5uL (-) 50mL ✓
J 89	HB			3						ND
J 90	FA39891-1,10X	2		4		OP(32)	1	N	10x	5mL (-) 50mL ✓ Naph.
J 91	-2	2		5			1			ND
J 92	-3, 5X	2		6			1			10mL (-) 50mL ✓ Naph.
J 93	-4	2		7			1			✓
J 94	-5	2		8			1			✓
J 95	-6	2		9			1			✓
J 96	-7	2		10			1			ND
J 97	-8	2		11			1			ND
J 98	-9	2		12			1			ND
J 99	-10	2		13			1			ND

* For NELAC purposes, Method 8260 includes analytes by SOP MS005
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: [signature]

msvoa6_j_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	12-30-16
COLUMN TYPE:	13 TFUMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	psi
ANALYST:	Melissa Hampton

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.M
CALIB. DATE:	12-30-16
EM VOLTAGE:	1635 V
BFB RESPONSE:	1296629 / 1217746
RUN ID:	VJ 5529

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257, V21241, V21223, V21213, V21214, V21221, V21168, V21163
ISTD/SURR:	V21160
ICV/QC:	V21260, V21240, V21262, V21207, V21226
Purge Volume:	5ml / V21261, V21263, V21130

	DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J	00	FA39891-11	2	W	14	8260		1	N		ND
J	01	-12	2		15			1		Sx	mp xylene ↑ Naph.
J	02	-13	2		16			1			✓
J	03	-14, 2X	2		17			1			25ml (.5ml) ✓
J	04	-15	2		18			1			ND
J	05	-16, 10X	2		19			1		Sx	5ml (.5ml)
J	06	-17	2		20		Sample drained	1		1X	
J	07	-20	1		21			1			ND
J	08	-21	1		22			1			ND
J	09	-1MS, 10X	2		23		SP(8) OP(37) PII(107)	1			12.5ml (.5ml) ✓
J	10	-1MSD, 10X	2		23		SP(8)	1			12.5ml (.5ml) ✓
J	11	FC035209-5	–		24		SP(8) OP(37) PII(14)	–	–		20ml (.25ml) ✓
J											
J											
J											
J											
J											
J											
J											
J						-0317	DP				
J											
J											
J											
J											
J											
J											
J											
J											

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: RD

msvoa6_j_log.xls ME 06/16

SGS ACCUTEST-ORLANDO

DATE: 01-03-17	
COLUMN TYPE: RTX-UMS	1-12pH Lot 200814
DETECTOR: 5973 MSD	0-3pH Lot 230315
INSTRUMENT: MSVOA6-J	
PURGE PRESSURE: 10.1 psi	
ANALYST: DP	

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS123016.m
CALIB. DATE:	12-30-16
EM VOLTAGE:	1653V
BFB RESPONSE:	1460096
RUN ID:	VJ5530/5531

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257 V21241 V21214 V21221 V21223 V21213 V21167 V21168
ISTD/SURR:	V21166
ICV/QC:	V21260 V21242 V21262 V21226
Purge Volume:	5ml V21261 V21207 V21263 V21264

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0981912	BLK	N/A	W	1	8260		N/A	N/A		✓
J 13	BFB			1						Auto Passed
J 14	CC 5529-5			1		SP(8) PII(107) OP(37)				20ul→50ml
J 15	ICV 5529-5			1		SP(8) PII(107) OP(37)				~~15ul~~ 15ul→40ml OP 1-03-17
J 16	BS			2		SP(8) PII(107) OP(37)				12 ul→40ml ✓
J 17	MB			3						ND
J 18	BS			1						12 ul→40ml
J 19	FA39891-17	3		1				N		ND
J 20	~~FA39~~ FA40012-1	1		2						✓
J 21	-2	1		3		PII(30)				✓
J 22	FA39907-1 MA	2		4						✓
J 23	-2 MA	2		5						✓
J 24	-3 MA	1		6						ND
J 25	-4 MA	1		7						ND
J 26	-5 MA	1		8						✓
J 27	-6 MA	1		9						✓
J 28	-7 MA	2		10						✓
J 29	-8 MA	2		11						✓
J 30	-9 MA	2		12						✓
J 31	-10 MA	2		13						✓
J 32	-11 MA	2		14						✓
J 33	-12 MA	1		15						ND
J 34	-13 MA	1		16						ND
J 35	-14 MA	1		17						ND
J 36	7 -16 MA	2		18						✓ 1,4 Dioxane ↑
J 37	FA39942-16 ~~Sox~~ MA	7		19		~~Int→Sod.~~ DP 01-03-17				Surr-9 mp xylene ↑
J 38	FA39942-16 ~~17~~ MA, Sox	7		20		Int→Sod				✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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 ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	01-03-17 DP
COLUMN TYPE:	RTx VMS1
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10-1psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.m
CALIB. DATE:	12-30-16
EM VOLTAGE:	1653V
BFB RESPONSE:	14100096
RUN ID:	VJ5530/5531

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257 V21241 V21214 V21221
	V21223 V21213 V21168 V21
ISTD/SURR:	V21166
ICV/QC:	V21260 V21242 V21262 · V21224
Purge Volume:	5 ml V21261 V21207 V21263 V21264

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 39	FA39907-16MS MA	3	H2O	21	8260	SP(8) OP(37) PII(107)	1	N		12 5ml-240ml
J 40	-16MSD MA	3		21		SP(8) PII(107)	1			
J 41	~~FA3~~ FA40012-1MS	2		22		SP(8) PII(109)	1			
J 42	-1MSD	2		22		SP(8) PII(107)	1			
J 43	ECL SS29-S	-		23		SP(8) OP(37) PII(109)	-	-		20ml-250ml

01-03-17 DP

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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 ME 06/16

SGS ACCUTEST-ORLANDO

DATE:	01-03-17
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10 psi
ANALYST:	DP

1-12pH Lot 200814
0-3pH Lot 230315

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.m
CALIB. DATE:	12-30-16
EM VOLTAGE:	1653V
BFB RESPONSE:	1460096
RUN ID:	VJ5530/5531

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257 V21241 V21214 V21221 V21223 V21213 V21167 V21168
ISTD/SURR:	V21166
ICV/QC:	V21260 V21242 V21262 V21226
Purge Volume:	Soil V21261 V21207 V21263 V21264

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0981912	BIK	N/A	H2O	1	8260		N/A	N/A		✓
J 13	BFB			1						Auto Passed
J 14	CC 5529-5			1		SP(8) PII(107) OP(37)				20ul→50ml
J 15	ICV 5529-5			1		SP(8) PII(107) OP(37)				~~12ul~~→40ml OP 1-03-17
J 16	BS			2		SP(8) PII(107) OP(37)				12 ul→40ml ✓
J 17	MB			3						ND
J 18	BS			1						12 ul→40ml
J 19	FA39891-17	3		1				N		ND
J 20	~~FA39~~ FA40012-1	1		2						✓
J 21	-2	1		3		PII(30)				✓
J 22	FA39907-1 MA	2		4						✓
J 23	-2 MA	2		5						✓
J 24	-3 MA	1		6						ND
J 25	-4 MA	1		7						ND
J 26	-5 MA	1		8						✓
J 27	-6 MA	1		9						✓
J 28	-7 MA	2		10						✓
J 29	-8 MA	2		11						✓
J 30	-9 MA	2		12						✓
J 31	-10 MA	2		13						✓
J 32	-11 MA	2		14						✓
J 33	-12 MA	1		15						ND
J 34	-13 MA	1		16						ND
J 35	-14 MA	1		17						ND
J 36	-16 MA	2		18						✓ 1,4 Dioxane ↑
J 37	FA39942-16 MA	7		19		~~Int→Sod.~~ DP 01-03-17				Surr-9 m,p xylene ↑
J 38	FA39942-16-17 MA	7		20		Int→Sod				✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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: FCB

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SGS ACCUTEST-ORLANDO

DATE:	01-03-17 DP 01-03-17
COLUMN TYPE:	RTx VMS1
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10-1psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.m
CALIB. DATE:	12-30-16
EM VOLTAGE:	1653V
BFB RESPONSE:	14110096
RUN ID:	VJ5530/5531

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257 V21241 V21214 V21221 V21223 V21213 V21168 V24
ISTD/SURR:	V21166
ICV/QC:	V21260 V21242 V21262 V21224
Purge Volume:	5ml V21261 V21207 V21263 V21264

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 39	FA39907-16MS mA	3	H2O	21	8260	SP(8) OP(37) PII(107)	1	N		12 5ml→240ml ✓
J 40	-16MSD mA	3		21		SP(8) PII(107)	1			
J 41	~~FAS~~ FA40012-1MS	2		22		SP(8) PII(107)	1			
J 42	-1MSD	2		22		SP(8) PII(107)	1			
J 43	ECC5529-S	–		23		SP(8) OP(37) PII(109)	–	–		20ml→5ml
J										
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01-03-17 DP

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

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

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SGS ACCUTEST-ORLANDO

DATE:	01-04-17
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10.1psi
ANALYST:	DP

1-12 pH
Lot 200814
0-3 pH
Lot 230315

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ123016.m
CALIB. DATE:	12-30-16
EM VOLTAGE:	1635 V
BFB RESPONSE:	1265 2.69
RUN ID:	VJ 5532

STANDARDS

BFB:	V21166
ICAL/CCV:	V21257 V21266 V21221 V21223 V21268 V21213 V21167 V21168
ISTD/SURR:	V21166
ICV/QC:	V21260 V21242 V21256 V21262 V21180
Purge Volume:	50ml V21261 V21207 V21264 V21263

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0981944	Blk	N/A	H_2O	1	8260		N/A	N/A		✓
J 45	BFB			1						Auto Passed
J 46	CCS529-5			1						20ul→50ml
J 47	BS			2						12.5ul→40ml
J 48	MB			3						ND
J 49	DS			1						12.5ul→40ml
J 50	FA39742-17 MA	2		1			1	N		✓
J 51	FA39907-15 MA	2		2			1			ND
J 52	-17 MA	1		3			1			ND
J 53	FA39942-1 MA	1		4			1			✓
J 54	-2 MA	1		5			1			ND
J 55	-3 MA	1		6			1			✓
J 56	-4 MA	1		7			1			✓ 1,4-Dioxane
J 57	-5 MA	1		8			1			✓
J 58	-6 MA	1		9			1			ND
J 59	-7 MA	1		10			1			ND
J 60	-8 MA	1		11			1			ND
J 61	-9 MA 25x	1		12		0.25 ml→5ml DP 01-04-16	1			✓
J 62	-10 MA	1		13			1			ND
J 63	-11 MA	1		14			1			✓
J 64	-12 MA	1		15			1			ND
J 65	-11MA MS	2		16		SP(8) OP(37) PII(107)	1			12.5ul→40ml ✓
J 66	-11MSD, MA	2		16		SP(8) OP(37) PII(107)	1			✓
J 67	ECC5529-5	–		17		SP(8) OP(37) PII(107)	–	–		20ul→50ml. ✓
J						~~01-04-16 DP~~				
J										
J										

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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 initiated 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: TS

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