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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: FA34367

Sampling Dates: 05/27/16 - 05/31/16

Report to:

Anderson, Mulholland & Associates

arice@amaiconsult.com

ATTN: Addison Rice

Total number of pages in report: **441**

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Norm Farmer
Technical Director

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Sample Summary

Anderson, Mulholland & Associates

Job No: FA34367

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA34367-1	05/27/16	15:30	RTL	06/01/16	AQ	Ground Water	SB102-GWS
FA34367-2	05/31/16	10:00	RTL	06/01/16	SO	Soil	SB-101 (6.5-7.5)
FA34367-3	05/31/16	10:30	RTL	06/01/16	SO	Soil	SB-101 (8-9)
FA34367-4	05/31/16	12:15	RTL	06/01/16	AQ	Ground Water	SB-102-GWD
FA34367-5	05/31/16	13:20	RTL	06/01/16	AQ	Equipment Blank	BPEB-31
FA34367-6	05/31/16	08:00	RTL	06/01/16	AQ	Trip Blank Water	TB053116

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

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job No:** FA34367

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 6/7/2016 8:31:20 AM

5 Sample(s), 1 Trip Blank(s) were collected on/between 05/27/2016 and 05/31/2016 and were received at SGS Accutest Southeast (SASE) on 06/01/2016 properly preserved, at 3.9 Deg. C and intact. These Samples received an SASE job number of FA34367. 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:** VJ5324

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA34367-1MS, FA34367-1MSD were used as the QC samples indicated.

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

Matrix: SO **Batch ID:** VC4610

All samples were analyzed within the recommended method holding time.

Sample(s) FA34367-3MS, FA34367-3MSD were used as the QC samples indicated.

Sample(s) FA34367-2 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank. Matrix Spike Recovery(s) for Bromoform, Methylcyclohexane are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

Matrix Spike Duplicate Recovery(s) for Bromoform, Carbon Tetrachloride are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

RPD(s) for MSD for 1,2-Dichloropropane are outside control limits for sample FA34367-3MSD. Probable cause is due to sample non-homogeneity.

FA34367-2 for Methylene Chloride: Suspected laboratory contaminant.

FA34367-3 for Methylene Chloride: Suspected laboratory contaminant.

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN71145

Sample(s) FA34367-2DUP were used as the QC samples for Solids, Percent.

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

Narrative prepared by:

_____ Date: June 7, 2016

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA34367-1MS	MSVOA	J0976963.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
FA34367-1MSD	MSVOA	J0976964.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
FA34367-3MS	MSVOA	C0116031.D	Ethyl Alcohol
FA34367-3MSD	MSVOA	C0116032.D	Ethyl Alcohol
VC4602-IC4602	MSVOA	C0115808.D	Ethyl Alcohol
VC4602-IC4602	MSVOA	C0115810.D	Ethyl Alcohol
VC4602-IC4602	MSVOA	C0115813.D	1,4-Dioxane
VC4602-IC4602	MSVOA	C0115814.D	1,4-Dioxane, Ethyl Alcohol
VC4602-ICC4602	MSVOA	C0115811.D	Ethyl Alcohol
VC4602-ICV4602	MSVOA	C0115817.D	Tetrahydrofuran
VC4610-CC4602	MSVOA	C0116026.D	Ethyl Alcohol
VJ5312-IC5312	MSVOA	J0976753.D	Carbon Tetrachloride, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976754.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976755.D	Carbon Tetrachloride, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976756.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976758.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5312-IC5312	MSVOA	J0976759.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5312-ICC5312	MSVOA	J0976757.D	Carbon Tetrachloride, Trichlorofluoromethane
VJ5312-ICV5312	MSVOA	J0976761.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5323-CC5312	MSVOA	J0976942.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5324-BS	MSVOA	J0976945.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane

21 Manual Integrations were found for FA34367

Summary of Hits

Job Number: FA34367
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 05/27/16 thru 05/31/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA34367-1	**SB102-GWS**					
Chlorobenzene		0.21 J	1.0	0.20	ug/l	SW846 8260C
Dichlorodifluoromethane		25.5	2.0	0.50	ug/l	SW846 8260C
1,2-Dichlorobenzene		0.83 J	1.0	0.27	ug/l	SW846 8260C
Freon 113		8.9	1.0	0.32	ug/l	SW846 8260C
1,2,3-Trichlorobenzene		0.74 J	2.0	0.51	ug/l	SW846 8260C
FA34367-2	**SB-101 (6.5-7.5)**					
Acetone		18.0 J	59	12	ug/kg	SW846 8260C
Methylene Chloride [a]		8.9 JB	12	4.7	ug/kg	SW846 8260C
Methyl Tert Butyl Ether		3.1 J	5.9	1.3	ug/kg	SW846 8260C
Tert-Butyl Alcohol		66.8	59	16	ug/kg	SW846 8260C
FA34367-3	**SB-101 (8-9)**					
Methyl Tert Butyl Ether		2.8 J	6.0	1.3	ug/kg	SW846 8260C
Tert-Butyl Alcohol		59.1 J	60	16	ug/kg	SW846 8260C
FA34367-4	**SB-102-GWD**					
Carbon Disulfide		0.67 J	2.0	0.23	ug/l	SW846 8260C
Cyclohexane		0.49 J	1.0	0.26	ug/l	SW846 8260C
Isopropylbenzene		1.7	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		85.5	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		1330	200	91	ug/l	SW846 8260C
Tetrahydrofuran		11.1	5.0	1.4	ug/l	SW846 8260C
m,p-Xylene		0.55 J	2.0	0.30	ug/l	SW846 8260C

FA34367-5 **BPEB-31**

No hits reported in this sample.

FA34367-6 **TB053116**

No hits reported in this sample.

(a) Suspected laboratory contaminant.

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	SB102-GWS		
Lab Sample ID:	FA34367-1	**Date Sampled:**	05/27/16
Matrix:	AQ - Ground Water	**Date Received:**	06/01/16
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	J0976946.D	1	06/01/16	DP	n/a	n/a	VJ5324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.21	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	25.5	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	0.83	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	8.9	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:	SB102-GWS		
Lab Sample ID:	FA34367-1	**Date Sampled:**	05/27/16
Matrix:	AQ - Ground Water	**Date Received:**	06/01/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	0.74	2.0	0.51	ug/l	J
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	101%		79-125%
2037-26-5	Toluene-D8	105%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

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

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

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Report of Analysis

Client Sample ID:	SB-101 (6.5-7.5)		
Lab Sample ID:	FA34367-2	**Date Sampled:**	05/31/16
Matrix:	SO - Soil	**Date Received:**	06/01/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	80.3
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0116029.D	1	06/01/16	EP	06/01/16 10:49	n/a	VC4610
Run #2							

	Initial Weight	Final Volume
Run #1	5.31 g	5.0 ml
Run #2		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	18.0	59	12	ug/kg	J
71-43-2	Benzene	ND	5.9	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	5.9	1.6	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	1.3	ug/kg	
75-27-4	Bromodichloromethane	ND	5.9	1.2	ug/kg	
75-25-2	Bromoform	ND	5.9	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	29	11	ug/kg	
75-15-0	Carbon Disulfide	ND	5.9	1.2	ug/kg	
56-23-5	Carbon Tetrachloride	ND	5.9	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	5.9	1.2	ug/kg	
75-00-3	Chloroethane	ND	5.9	2.3	ug/kg	
67-66-3	Chloroform	ND	5.9	1.4	ug/kg	
110-82-7	Cyclohexane	ND	5.9	1.4	ug/kg	
124-48-1	Dibromochloromethane	ND	5.9	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.9	2.6	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.9	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	2.9	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.9	1.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.9	1.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.9	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.9	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.9	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.9	1.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.9	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.9	1.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.9	1.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	2.2	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	5.9	1.3	ug/kg	
76-13-1	Freon 113	ND	5.9	1.4	ug/kg	
591-78-6	2-Hexanone	ND	29	10	ug/kg	
98-82-8	Isopropylbenzene	ND	5.9	1.7	ug/kg	

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

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

Report of Analysis

Client Sample ID:	SB-101 (6.5-7.5)		
Lab Sample ID:	FA34367-2	**Date Sampled:**	05/31/16
Matrix:	SO - Soil	**Date Received:**	06/01/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	80.3
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	5.9	1.2	ug/kg	
79-20-9	Methyl Acetate	ND	29	10	ug/kg	
74-83-9	Methyl Bromide	ND	5.9	3.0	ug/kg	
74-87-3	Methyl Chloride	ND	5.9	2.8	ug/kg	
108-87-2	Methylcyclohexane	ND	5.9	1.2	ug/kg	
75-09-2	Methylene Chloride [a]	8.9	12	4.7	ug/kg	JB
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	29	13	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	3.1	5.9	1.3	ug/kg	J
100-42-5	Styrene	ND	5.9	1.2	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	59	16	ug/kg	
75-65-0	Tert-Butyl Alcohol	66.8	59	16	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	2.6	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.9	1.5	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	4.2	ug/kg	
108-88-3	Toluene	ND	5.9	1.3	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	2.3	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	1.7	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.9	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.9	2.1	ug/kg	
79-01-6	Trichloroethylene	ND	5.9	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.9	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.9	1.2	ug/kg	
75-01-4	Vinyl Chloride	ND	5.9	2.0	ug/kg	
	m,p-Xylene	ND	12	2.1	ug/kg	
95-47-6	o-Xylene	ND	5.9	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	113%		75-124%
17060-07-0	1,2-Dichloroethane-D4	111%		72-135%
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	87%		71-133%

(a) Suspected laboratory contaminant.

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:	SB-101 (8-9)		
Lab Sample ID:	FA34367-3	**Date Sampled:**	05/31/16
Matrix:	SO - Soil	**Date Received:**	06/01/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	81.0
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0116030.D	1	06/01/16	EP	06/01/16 10:52	n/a	VC4610
Run #2							

	Initial Weight	Final Volume
Run #1	5.16 g	5.0 ml
Run #2		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	60	12	ug/kg	
71-43-2	Benzene	ND	6.0	1.5	ug/kg	
100-44-7	Benzyl Chloride	ND	6.0	1.7	ug/kg	
74-97-5	Bromochloromethane	ND	6.0	1.3	ug/kg	
75-27-4	Bromodichloromethane	ND	6.0	1.2	ug/kg	
75-25-2	Bromoform	ND	6.0	1.2	ug/kg	
78-93-3	2-Butanone (MEK)	ND	30	11	ug/kg	
75-15-0	Carbon Disulfide	ND	6.0	1.2	ug/kg	
56-23-5	Carbon Tetrachloride	ND	6.0	2.1	ug/kg	
108-90-7	Chlorobenzene	ND	6.0	1.2	ug/kg	
75-00-3	Chloroethane	ND	6.0	2.4	ug/kg	
67-66-3	Chloroform	ND	6.0	1.5	ug/kg	
110-82-7	Cyclohexane	ND	6.0	1.5	ug/kg	
124-48-1	Dibromochloromethane	ND	6.0	1.2	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.0	2.7	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.0	1.2	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.0	3.0	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.0	1.2	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.0	1.2	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.0	1.2	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.0	2.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.0	1.2	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.0	1.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.0	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.0	1.8	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.0	1.9	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.0	2.3	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.0	1.2	ug/kg	
100-41-4	Ethylbenzene	ND	6.0	1.3	ug/kg	
76-13-1	Freon 113	ND	6.0	1.4	ug/kg	
591-78-6	2-Hexanone	ND	30	10	ug/kg	
98-82-8	Isopropylbenzene	ND	6.0	1.7	ug/kg	

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

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

Report of Analysis

Client Sample ID:	SB-101 (8-9)		
Lab Sample ID:	FA34367-3	**Date Sampled:**	05/31/16
Matrix:	SO - Soil	**Date Received:**	06/01/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	81.0
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	6.0	1.2	ug/kg	
79-20-9	Methyl Acetate	ND	30	10	ug/kg	
74-83-9	Methyl Bromide	ND	6.0	3.1	ug/kg	
74-87-3	Methyl Chloride	ND	6.0	2.9	ug/kg	
108-87-2	Methylcyclohexane	ND	6.0	1.2	ug/kg	
75-09-2	Methylene Chloride [a]	ND	12	4.8	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	30	13	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	2.8	6.0	1.3	ug/kg	J
100-42-5	Styrene	ND	6.0	1.2	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	60	16	ug/kg	
75-65-0	Tert-Butyl Alcohol	59.1	60	16	ug/kg	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.0	2.6	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.0	1.6	ug/kg	
109-99-9	Tetrahydrofuran	ND	12	4.3	ug/kg	
108-88-3	Toluene	ND	6.0	1.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.0	2.4	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.0	1.8	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.0	1.2	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.0	2.2	ug/kg	
79-01-6	Trichloroethylene	ND	6.0	1.4	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.0	2.2	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.0	1.2	ug/kg	
75-01-4	Vinyl Chloride	ND	6.0	2.0	ug/kg	
	m,p-Xylene	ND	12	2.1	ug/kg	
95-47-6	o-Xylene	ND	6.0	1.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	118%		75-124%
17060-07-0	1,2-Dichloroethane-D4	112%		72-135%
2037-26-5	Toluene-D8	94%		75-126%
460-00-4	4-Bromofluorobenzene	86%		71-133%

(a) Suspected laboratory contaminant.

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:	SB-102-GWD		
Lab Sample ID:	FA34367-4	**Date Sampled:**	05/31/16
Matrix:	AQ - Ground Water	**Date Received:**	06/01/16
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	J0976947.D	1	06/01/16	DP	n/a	n/a	VJ5324
Run #2	J0976974.D	10	06/02/16	DP	n/a	n/a	VJ5326

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

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	0.67	2.0	0.23	ug/l	J
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	0.49	1.0	0.26	ug/l	J
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	1.7	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:	SB-102-GWD		
Lab Sample ID:	FA34367-4	**Date Sampled:**	05/31/16
Matrix:	AQ - Ground Water	**Date Received:**	06/01/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	85.5	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	1330 [a]	200	91	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	11.1	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	0.55	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%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	103%	79-125%
2037-26-5	Toluene-D8	104%	107%	85-112%
460-00-4	4-Bromofluorobenzene	106%	104%	83-118%

(a) Result is from Run# 2

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:	BPEB-31		
Lab Sample ID:	FA34367-5	**Date Sampled:**	05/31/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/01/16
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	J0976948.D	1	06/01/16	DP	n/a	n/a	VJ5324
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

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

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

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

Report of Analysis

Client Sample ID:	BPEB-31		
Lab Sample ID:	FA34367-5	**Date Sampled:**	05/31/16
Matrix:	AQ - Equipment Blank	**Date Received:**	06/01/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

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

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

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Report of Analysis

Client Sample ID:	TB053116		
Lab Sample ID:	FA34367-6	**Date Sampled:**	05/31/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/01/16
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	J0976949.D	1	06/01/16	DP	n/a	n/a	VJ5324
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:	TB053116		
Lab Sample ID:	FA34367-6	**Date Sampled:**	05/31/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/01/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		83-118%
17060-07-0	1,2-Dichloroethane-D4	102%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	105%		83-118%

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

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST - FL

CHAIN OF CUSTODY

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

FA34367

PAGE 1 OF 1

807638042220

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job #: Get from NJ

Client / Reporting Information

Company Name: Anderson Mulholland Assoc. Inc.
Street Address: 2700 Westchester
City: Purchase State: NY Zip:
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 Fax #:
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrand Phone #:

Project Information

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

Billing Information (if different from Report to)

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

Requested Analysis (see TEST CODE sheet)

VOC - Method 8260C

Matrix Codes

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

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOC - Method 8260C	LAB USE ONLY
1	SB102-GWS		05/27/16	1530	TT	GW	3	3								X	
2	SB-101 (6.5-7.5)		05/31/16	1000	TT	SO	4					1			3	X	
3	SB-101 (8-9)		05/31/16	1030	TT	SO	4					1			3	X	
4	SB-101-GWD		05/31/16	1215	TT	GW	3	3								X	
5	BPEB-31		05/31/16	1320	TT	EB	3	3								X	
6	TB053116		05/13/16	0800		TB	2	2								X	

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

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

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

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

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

Comments / Special Instructions

Add to Report: Tetrahydrofuran, p-Isopropyl toluene, Benzyl chloride, 1-2-4 Trimethyl benzene, Tetra amyl chloride

Sample inventory is verified upon receipt in the Laboratory

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	05/31/16 1730	1 Fed EX	2 FX		2 [signature] 6/1/16 930
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 # 332	Preserved where applicable	On Ice / Cooler Temp. 3.9

- [ ] Intact
- [ ] Not intact

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FA34367: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA34367 CLIENT: Anderson Mulholland PROJECT: BMS Release

DATE/TIME RECEIVED: 6/1/16 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: FEDEX UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8076 3804 2220

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

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.0
- [ ] OBSERVED TEMPS: 3.9
- [ ] CORRECTED TEMPS: 3.9 (USED FOR LIMS)

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

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}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM 6

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ?

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

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 6/1/16 REVIEWER SIGNATURE/DATE 6/1/16

NF 11/15 RECEIPTLOG040416.xls

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FA34367: Chain of Custody
Page 2 of 3

FedEx Express International Air Waybill

Origin Copy

1 From

Date 05 31 16 Sender's FedEx Account Number

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

Company Anderson Multinational Assoc. Inc.

Address BMS In care of

Address Rd # 3, Km 77.5

City Humacao State/Province PR

Country USA ZIP/Postal Code 00791

2 To

Recipient's Name Sample Receiving Phone 407-425-6700

Company SGS Accutest Florida

Address 4405 Vineland Rd Dept./Floor

Address

City Orlando State/Province FL

Country USA ZIP/Postal Code 32811

Recipient's Tax ID Number for Customs Purposes
e.g., GST/RFC/VAT/IN/EIN/ABN, or as locally required.

3 Shipment Information

☐ For EU Only: Tick here if goods are not in free circulation and provide C.I.

Total Packages (Shipper's Load and Count/SLAC): 1

Total Weight: 11 ☑ lbs. ☐ kg DIM: 11 in. ☑ cm ☐

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Ground Water Samples		USA	0
Soil Samples		USA	0
			NCV

Has EEI been filed in AES? For U.S. Export Only: Check One
☐ No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
☐ No EEI required, enter exemption number:
☐ Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $0

4 Express Package Service

Packages up to 150 lbs. / 68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.

1 ☒ FedEx Intl. Priority 6 ☐ FedEx Intl. First (Available to select locations.)
☐ 3 ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this Air Waybill.

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

6 ☑ FedEx Envelope 2 ☐ FedEx Pak 3 ☐ FedEx Box 4 ☐ FedEx Tube
1 ☒ Other PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

6 Special Handling

1 ☐ HOLD at FedEx Location 3 ☐ SATURDAY Delivery (Available to select locations for FedEx Intl. Priority only.)

7 Payment Complete payment options for both transportation charges and duties and taxes.

Bill transportation charges to: Enter FedEx Acct. No. or Credit Card No. below.

1 ☐ Sender (Acct. No. in Section 1 will be billed.) 2 ☐ Recipient 3 ☒ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check/Cheque (Total Transportation)

FedEx Acct. No. 1147-5950-2 [redacted]

Credit Card Exp. Date Specify Currency

Bill duties and taxes to: Enter FedEx Acct. No. below. ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.

1 ☐ Sender (Acct. No. in Section 1 will be billed.) 2 ☐ Recipient 3 ☐ Third Party 5 ☐ Cash/Check/Cheque

FedEx Acct. No.

8 Your Internal Billing Reference First 24 characters will appear on invoice.

BMS Release Assess

9 Required Signature

Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract. **WARNING:** These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.

Sender's Signature: [signature]

This is not authorization to deliver the shipment without a recipient signature.

Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.

Recipient's Signature:

568

PART 154410 Rev. Date 11/06 ©1994–2006 FedEx PRINTED IN U.S.A. RRDA

Form ID No.

FedEx Tracking Number 8076 3804 2220 0402

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
NYYDC	XM TIAA	TIAA	Total Volume (cm)

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☑ World Service Center 5 ☐ Station

Forms Attached: ☐ CI ☐ CO

Base Charges Declared Val. Chrg. Other ODA/UPA Credit Card Auth.

FedEx Emp. # Audit Emp. # Date 3/16 Time 1757 Del. Courier Emp. # Date Time

Non-Negotiable International Air Waybill • ©1994-2006 FedEx

RRDA 01/15

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FA34367: Chain of Custody

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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: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5324-MB	J0976944.D	1	06/01/16	DP	n/a	n/a	VJ5324

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

FA34367-1, FA34367-4, FA34367-5, FA34367-6

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: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5324-MB	J0976944.D	1	06/01/16	DP	n/a	n/a	VJ5324

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

FA34367-1, FA34367-4, FA34367-5, FA34367-6

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	101%	79-125%
2037-26-5	Toluene-D8	107%	85-112%
460-00-4	4-Bromofluorobenzene	105%	83-118%

Method Blank Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4610-MB	C0116028.D	1	06/01/16	EP	n/a	n/a	VC4610

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

FA34367-2, FA34367-3

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

Method Blank Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4610-MB	C0116028.D	1	06/01/16	EP	n/a	n/a	VC4610

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

FA34367-2, FA34367-3

CAS No.	Compound	Result	RL	MDL	Units	Q
108-87-2	Methylcyclohexane	ND	5.0	1.0	ug/kg	
75-09-2	Methylene Chloride	6.5	10	4.0	ug/kg	J
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	25	11	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	1.1	ug/kg	
100-42-5	Styrene	ND	5.0	1.0	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	50	14	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	50	14	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	2.2	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
109-99-9	Tetrahydrofuran	ND	10	3.6	ug/kg	
108-88-3	Toluene	ND	5.0	1.1	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	2.0	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	1.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	1.0	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	1.8	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.2	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	1.9	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.7	ug/kg	
	m,p-Xylene	ND	10	1.8	ug/kg	
95-47-6	o-Xylene	ND	5.0	1.1	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	114%	75-124%
17060-07-0	1,2-Dichloroethane-D4	109%	72-135%
2037-26-5	Toluene-D8	95%	75-126%
460-00-4	4-Bromofluorobenzene	88%	71-133%

Method Blank Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5326-MB	J0976973.D	1	06/02/16	DP	n/a	n/a	VJ5326

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

FA34367-4

CAS No.	Compound	Result	RL	MDL	Units	Q
75-65-0	Tert-Butyl Alcohol	ND	20	9.1	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	102%	79-125%
2037-26-5	Toluene-D8	106%	85-112%
460-00-4	4-Bromofluorobenzene	105%	83-118%

Blank Spike Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5324-BS	J0976945.D	1	06/01/16	DP	n/a	n/a	VJ5324

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

FA34367-1, FA34367-4, FA34367-5, FA34367-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	101	81	50-147
71-43-2	Benzene	25	22.3	89	81-122
100-44-7	Benzyl Chloride	25	23.8	95	54-122
74-97-5	Bromochloromethane	25	20.1	80	76-123
75-27-4	Bromodichloromethane	25	22.3	89	79-123
75-25-2	Bromoform	25	22.6	90	66-123
78-93-3	2-Butanone (MEK)	125	104	83	56-143
75-15-0	Carbon Disulfide	25	17.7	71	66-148
56-23-5	Carbon Tetrachloride	25	23.4	94	76-136
108-90-7	Chlorobenzene	25	23.8	95	82-124
75-00-3	Chloroethane	25	21.2	85	62-144
67-66-3	Chloroform	25	21.9	88	80-124
110-82-7	Cyclohexane	25	21.4	86	73-138
124-48-1	Dibromochloromethane	25	24.2	97	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	22.1	88	64-123
106-93-4	1,2-Dibromoethane	25	23.2	93	75-120
75-71-8	Dichlorodifluoromethane	25	22.8	91	42-167
95-50-1	1,2-Dichlorobenzene	25	24.3	97	82-124
541-73-1	1,3-Dichlorobenzene	25	24.9	100	84-125
106-46-7	1,4-Dichlorobenzene	25	23.9	96	78-120
75-34-3	1,1-Dichloroethane	25	22.6	90	81-122
107-06-2	1,2-Dichloroethane	25	21.8	87	75-125
75-35-4	1,1-Dichloroethylene	25	21.4	86	78-137
156-59-2	cis-1,2-Dichloroethylene	25	20.8	83	78-120
156-60-5	trans-1,2-Dichloroethylene	25	23.8	95	76-127
78-87-5	1,2-Dichloropropane	25	21.1	84	76-124
10061-01-5	cis-1,3-Dichloropropene	25	23.1	92	75-118
10061-02-6	trans-1,3-Dichloropropene	25	26.5	106	80-120
100-41-4	Ethylbenzene	25	24.1	96	81-121
76-13-1	Freon 113	25	19.5	78	72-134
591-78-6	2-Hexanone	125	109	87	61-129
98-82-8	Isopropylbenzene	25	27.8	111	83-132
99-87-6	p-Isopropyltoluene	25	26.7	107	79-130
79-20-9	Methyl Acetate	125	107	86	65-126
74-83-9	Methyl Bromide	25	20.6	82	59-143
74-87-3	Methyl Chloride	25	22.8	91	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5324-BS	J0976945.D	1	06/01/16	DP	n/a	n/a	VJ5324

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

FA34367-1, FA34367-4, FA34367-5, FA34367-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	23.4	94	76-129
75-09-2	Methylene Chloride	25	20.5	82	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	116	93	66-122
1634-04-4	Methyl Tert Butyl Ether	25	20.0	80	72-117
100-42-5	Styrene	25	23.0	92	78-119
75-85-4	Tert-Amyl Alcohol	250	253	101	65-124
75-65-0	Tert-Butyl Alcohol	250	218	87	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	22.8	91	72-120
127-18-4	Tetrachloroethylene	25	24.3	97	76-135
109-99-9	Tetrahydrofuran	25	19.6	78	56-122
108-88-3	Toluene	25	23.7	95	80-120
87-61-6	1,2,3-Trichlorobenzene	25	23.5	94	68-131
120-82-1	1,2,4-Trichlorobenzene	25	24.5	98	73-129
71-55-6	1,1,1-Trichloroethane	25	21.3	85	75-130
79-00-5	1,1,2-Trichloroethane	25	23.7	95	76-119
79-01-6	Trichloroethylene	25	22.9	92	81-126
75-69-4	Trichlorofluoromethane	25	22.6	90	71-156
95-63-6	1,2,4-Trimethylbenzene	25	26.1	104	79-120
75-01-4	Vinyl Chloride	25	22.4	90	69-159
	m,p-Xylene	50	48.9	98	79-126
95-47-6	o-Xylene	25	25.7	103	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	83-118%
17060-07-0	1,2-Dichloroethane-D4	99%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	97%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4610-BS	C0116027.D	1	06/01/16	EP	n/a	n/a	VC4610

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

FA34367-2, FA34367-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	264	106	61-152
71-43-2	Benzene	50	46.9	94	76-126
100-44-7	Benzyl Chloride	50	43.0	86	65-126
74-97-5	Bromochloromethane	50	44.1	88	77-120
75-27-4	Bromodichloromethane	50	44.4	89	74-130
75-25-2	Bromoform	50	41.0	82	76-127
78-93-3	2-Butanone (MEK)	250	263	105	75-137
75-15-0	Carbon Disulfide	50	46.1	92	72-122
56-23-5	Carbon Tetrachloride	50	44.4	89	78-133
108-90-7	Chlorobenzene	50	44.4	89	81-129
75-00-3	Chloroethane	50	56.8	114	68-133
67-66-3	Chloroform	50	45.1	90	72-123
110-82-7	Cyclohexane	50	43.4	87	73-126
124-48-1	Dibromochloromethane	50	44.5	89	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	44.5	89	70-137
106-93-4	1,2-Dibromoethane	50	43.6	87	77-126
75-71-8	Dichlorodifluoromethane	50	58.7	117	68-168
95-50-1	1,2-Dichlorobenzene	50	46.7	93	80-129
541-73-1	1,3-Dichlorobenzene	50	45.1	90	81-129
106-46-7	1,4-Dichlorobenzene	50	43.4	87	76-130
75-34-3	1,1-Dichloroethane	50	49.6	99	73-125
107-06-2	1,2-Dichloroethane	50	47.2	94	74-128
75-35-4	1,1-Dichloroethylene	50	50.3	101	81-136
156-59-2	cis-1,2-Dichloroethylene	50	45.0	90	74-126
156-60-5	trans-1,2-Dichloroethylene	50	52.6	105	70-127
78-87-5	1,2-Dichloropropane	50	41.7	83	74-125
10061-01-5	cis-1,3-Dichloropropene	50	43.5	87	80-123
10061-02-6	trans-1,3-Dichloropropene	50	45.7	91	75-131
100-41-4	Ethylbenzene	50	45.3	91	77-123
76-13-1	Freon 113	50	44.6	89	71-129
591-78-6	2-Hexanone	250	237	95	72-133
98-82-8	Isopropylbenzene	50	46.1	92	80-136
99-87-6	p-Isopropyltoluene	50	44.1	88	77-131
79-20-9	Methyl Acetate	250	268	107	67-137
74-83-9	Methyl Bromide	50	57.3	115	65-139
74-87-3	Methyl Chloride	50	58.1	116	71-144

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC4610-BS	C0116027.D	1	06/01/16	EP	n/a	n/a	VC4610

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

FA34367-2, FA34367-3

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-87-2	Methylcyclohexane	50	45.2	90	75-128
75-09-2	Methylene Chloride	50	52.6	105	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	293	117	76-132
1634-04-4	Methyl Tert Butyl Ether	50	46.9	94	77-120
100-42-5	Styrene	50	40.8	82	78-125
75-85-4	Tert-Amyl Alcohol	500	387	77	69-130
75-65-0	Tert-Butyl Alcohol	500	404	81	58-136
79-34-5	1,1,2,2-Tetrachloroethane	50	49.8	100	71-126
127-18-4	Tetrachloroethylene	50	40.4	81	79-130
109-99-9	Tetrahydrofuran	50	56.5	113	70-133
108-88-3	Toluene	50	45.4	91	76-124
87-61-6	1,2,3-Trichlorobenzene	50	43.8	88	77-128
120-82-1	1,2,4-Trichlorobenzene	50	40.1	80	78-130
71-55-6	1,1,1-Trichloroethane	50	41.6	83	70-129
79-00-5	1,1,2-Trichloroethane	50	45.9	92	74-124
79-01-6	Trichloroethylene	50	44.1	88	75-128
75-69-4	Trichlorofluoromethane	50	53.5	107	73-145
95-63-6	1,2,4-Trimethylbenzene	50	45.7	91	74-123
75-01-4	Vinyl Chloride	50	56.3	113	76-141
	m,p-Xylene	100	85.7	86	80-128
95-47-6	o-Xylene	50	46.2	92	80-132

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	75-124%
17060-07-0	1,2-Dichloroethane-D4	100%	72-135%
2037-26-5	Toluene-D8	99%	75-126%
460-00-4	4-Bromofluorobenzene	97%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5326-BS	J0976972.D	1	06/02/16	DP	n/a	n/a	VJ5326

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

FA34367-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
75-65-0	Tert-Butyl Alcohol	250	228	91	63-129

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	79-125%
2037-26-5	Toluene-D8	104%	85-112%
460-00-4	4-Bromofluorobenzene	98%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34367-3MS	C0116031.D	1	06/01/16	EP	n/a	n/a	VC4610
FA34367-3MSD	C0116032.D	1	06/01/16	EP	n/a	n/a	VC4610
FA34367-3	C0116030.D	1	06/01/16	EP	n/a	n/a	VC4610

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

FA34367-2, FA34367-3

CAS No.	Compound	FA34367-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		318	333	105	335	361	108	8	61-152/27
71-43-2	Benzene	ND		63.5	55.5	87	67.1	62.7	93	12	76-126/26
100-44-7	Benzyl Chloride	ND		63.5	44.3	70	67.1	50.9	76	14	65-126/31
74-97-5	Bromochloromethane	ND		63.5	54.6	86	67.1	63.5	95	15	77-120/24
75-27-4	Bromodichloromethane	ND		63.5	48.8	77	67.1	60.4	90	21	74-130/25
75-25-2	Bromoform	ND		63.5	45.9	72*	67.1	49.5	74*	8	76-127/26
78-93-3	2-Butanone (MEK)	ND		318	306	96	335	330	98	8	75-137/25
75-15-0	Carbon Disulfide	ND		63.5	51.9	82	67.1	61.6	92	17	72-122/29
56-23-5	Carbon Tetrachloride	ND		63.5	51.4	81	67.1	49.1	73*	5	78-133/29
108-90-7	Chlorobenzene	ND		63.5	54.6	86	67.1	61.4	92	12	81-129/29
75-00-3	Chloroethane	ND		63.5	55.8	88	67.1	72.6	108	26	68-133/29
67-66-3	Chloroform	ND		63.5	56.1	88	67.1	65.2	97	15	72-123/26
110-82-7	Cyclohexane	ND		63.5	46.7	74	67.1	54.4	81	15	73-126/32
124-48-1	Dibromochloromethane	ND		63.5	50.6	80	67.1	58.8	88	15	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	ND		63.5	49.2	77	67.1	57.3	85	15	70-137/29
106-93-4	1,2-Dibromoethane	ND		63.5	54.0	85	67.1	56.7	85	5	77-126/26
75-71-8	Dichlorodifluoromethane	ND		63.5	55.1	87	67.1	65.6	98	17	68-168/29
95-50-1	1,2-Dichlorobenzene	ND		63.5	55.6	88	67.1	66.7	99	18	80-129/32
541-73-1	1,3-Dichlorobenzene	ND		63.5	55.4	87	67.1	66.8	100	19	81-129/33
106-46-7	1,4-Dichlorobenzene	ND		63.5	55.9	88	67.1	65.6	98	16	76-130/32
75-34-3	1,1-Dichloroethane	ND		63.5	56.9	90	67.1	66.0	98	15	73-125/27
107-06-2	1,2-Dichloroethane	ND		63.5	56.9	90	67.1	65.3	97	14	74-128/23
75-35-4	1,1-Dichloroethylene	ND		63.5	57.4	90	67.1	66.6	99	15	81-136/28
156-59-2	cis-1,2-Dichloroethylene	ND		63.5	53.6	84	67.1	63.7	95	17	74-126/26
156-60-5	trans-1,2-Dichloroethylene	ND		63.5	59.0	93	67.1	69.4	103	16	70-127/27
78-87-5	1,2-Dichloropropane	ND		63.5	47.4	75	67.1	61.6	92	26*	74-125/25
10061-01-5	cis-1,3-Dichloropropene	ND		63.5	54.5	86	67.1	54.6	81	0	80-123/26
10061-02-6	trans-1,3-Dichloropropene	ND		63.5	55.0	87	67.1	57.3	85	4	75-131/28
100-41-4	Ethylbenzene	ND		63.5	54.4	86	67.1	63.9	95	16	77-123/31
76-13-1	Freon 113	ND		63.5	49.2	77	67.1	58.3	87	17	71-129/30
591-78-6	2-Hexanone	ND		318	265	83	335	288	86	8	72-133/26
98-82-8	Isopropylbenzene	ND		63.5	53.1	84	67.1	65.0	97	20	80-136/32
99-87-6	p-Isopropyltoluene	ND		63.5	53.4	84	67.1	65.1	97	20	77-131/34
79-20-9	Methyl Acetate	ND		318	300	94	335	352	105	16	67-137/30
74-83-9	Methyl Bromide	ND		63.5	56.5	89	67.1	69.2	103	20	65-139/31
74-87-3	Methyl Chloride	ND		63.5	61.3	97	67.1	68.5	102	11	71-144/27

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34367-3MS	C0116031.D	1	06/01/16	EP	n/a	n/a	VC4610
FA34367-3MSD	C0116032.D	1	06/01/16	EP	n/a	n/a	VC4610
FA34367-3	C0116030.D	1	06/01/16	EP	n/a	n/a	VC4610

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

FA34367-2, FA34367-3

CAS No.	Compound	FA34367-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		63.5	46.2	73*	67.1	54.7	82	17	75-128/31
75-09-2	Methylene Chloride	ND		63.5	60.1	95	67.1	73.4	109	20	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		318	299	94	335	362	108	19	76-132/26
1634-04-4	Methyl Tert Butyl Ether	2.8	J	63.5	58.7	88	67.1	68.8	98	16	77-120/24
100-42-5	Styrene	ND		63.5	51.2	81	67.1	58.3	87	13	78-125/30
75-85-4	Tert-Amyl Alcohol	ND		635	570	90	671	588	88	3	69-130/32
75-65-0	Tert-Butyl Alcohol	59.1	J	635	669	96	671	693	94	4	74-126/32
79-34-5	1,1,2,2-Tetrachloroethane	ND		63.5	53.6	84	67.1	65.6	98	20	71-126/30
127-18-4	Tetrachloroethylene	ND		63.5	60.9	96	67.1	58.9	88	3	79-130/31
109-99-9	Tetrahydrofuran	ND		63.5	66.7	105	67.1	71.4	106	7	70-133/26
108-88-3	Toluene	ND		63.5	53.8	85	67.1	62.5	93	15	76-124/30
87-61-6	1,2,3-Trichlorobenzene	ND		63.5	53.7	85	67.1	67.1	100	22	77-128/35
120-82-1	1,2,4-Trichlorobenzene	ND		63.5	51.9	82	67.1	63.9	95	21	78-130/34
71-55-6	1,1,1-Trichloroethane	ND		63.5	51.3	81	67.1	59.6	89	15	70-129/27
79-00-5	1,1,2-Trichloroethane	ND		63.5	53.8	85	67.1	61.1	91	13	74-124/28
79-01-6	Trichloroethylene	ND		63.5	54.7	86	67.1	61.1	91	11	75-128/27
75-69-4	Trichlorofluoromethane	ND		63.5	54.5	86	67.1	66.0	98	19	73-145/31
95-63-6	1,2,4-Trimethylbenzene	ND		63.5	55.8	88	67.1	67.0	100	18	74-123/34
75-01-4	Vinyl Chloride	ND		63.5	57.0	90	67.1	68.1	101	18	76-141/27
	m,p-Xylene	ND		127	103	81	134	123	92	18	80-128/30
95-47-6	o-Xylene	ND		63.5	55.1	87	67.1	65.9	98	18	80-132/30

CAS No.	Surrogate Recoveries	MS	MSD	FA34367-3	Limits
1868-53-7	Dibromofluoromethane	99%	103%	118%	75-124%
17060-07-0	1,2-Dichloroethane-D4	100%	98%	112%	72-135%
2037-26-5	Toluene-D8	97%	101%	94%	75-126%
460-00-4	4-Bromofluorobenzene	95%	97%	86%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34367-1MS	J0976963.D	1	06/01/16	DP	n/a	n/a	VJ5324
FA34367-1MSD	J0976964.D	1	06/01/16	DP	n/a	n/a	VJ5324
FA34367-1	J0976946.D	1	06/01/16	DP	n/a	n/a	VJ5324

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

FA34367-1, FA34367-4, FA34367-5, FA34367-6

CAS No.	Compound	FA34367-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	97.7	78	125	104	83	6	50-147/21
71-43-2	Benzene	ND		25	23.1	92	25	24.1	96	4	81-122/14
100-44-7	Benzyl Chloride	ND		25	18.8	75	25	19.5	78	4	54-122/18
74-97-5	Bromochloromethane	ND		25	20.6	82	25	22.4	90	8	76-123/14
75-27-4	Bromodichloromethane	ND		25	21.5	86	25	21.1	84	2	79-123/19
75-25-2	Bromoform	ND		25	18.0	72	25	18.8	75	4	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	106	85	125	110	88	4	56-143/18
75-15-0	Carbon Disulfide	ND		25	19.9	80	25	19.8	79	1	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	24.1	96	25	22.7	91	6	76-136/23
108-90-7	Chlorobenzene	0.21	J	25	23.7	94	25	25.0	99	5	82-124/14
75-00-3	Chloroethane	ND		25	23.4	94	25	22.2	89	5	62-144/20
67-66-3	Chloroform	ND		25	22.7	91	25	24.0	96	6	80-124/15
110-82-7	Cyclohexane	ND		25	23.7	95	25	24.2	97	2	73-138/18
124-48-1	Dibromochloromethane	ND		25	21.1	84	25	21.0	84	0	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	22.9	92	25	23.8	95	4	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	23.3	93	25	25.2	101	8	75-120/13
75-71-8	Dichlorodifluoromethane	25.5		25	42.4	68	25	44.4	76	5	42-167/19
95-50-1	1,2-Dichlorobenzene	0.83	J	25	24.2	93	25	25.5	99	5	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	24.2	97	25	25.3	101	4	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	23.6	94	25	24.8	99	5	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	24.3	97	25	25.4	102	4	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	22.7	91	25	24.1	96	6	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	25.4	102	25	26.1	104	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	21.9	88	25	23.6	94	7	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	26.4	106	25	27.0	108	2	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	21.5	86	25	23.1	92	7	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	21.4	86	25	21.5	86	0	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.2	97	25	24.8	99	2	80-120/22
100-41-4	Ethylbenzene	ND		25	23.8	95	25	24.8	99	4	81-121/14
76-13-1	Freon 113	8.9		25	30.8	88	25	30.6	87	1	72-134/20
591-78-6	2-Hexanone	ND		125	111	89	125	117	94	5	61-129/18
98-82-8	Isopropylbenzene	ND		25	26.6	106	25	27.8	111	4	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	24.7	99	25	26.0	104	5	79-130/16
79-20-9	Methyl Acetate	ND		125	111	89	125	123	98	10	65-126/18
74-83-9	Methyl Bromide	ND		25	21.9	88	25	22.3	89	2	59-143/19
74-87-3	Methyl Chloride	ND		25	22.0	88	25	22.8	91	4	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34367-1MS	J0976963.D	1	06/01/16	DP	n/a	n/a	VJ5324
FA34367-1MSD	J0976964.D	1	06/01/16	DP	n/a	n/a	VJ5324
FA34367-1	J0976946.D	1	06/01/16	DP	n/a	n/a	VJ5324

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

FA34367-1, FA34367-4, FA34367-5, FA34367-6

CAS No.	Compound	FA34367-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		25	23.8	95	25	24.1	96	1	76-129/17
75-09-2	Methylene Chloride	ND		25	22.3	89	25	23.0	92	3	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	118	94	125	124	99	5	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		25	21.7	87	25	23.1	92	6	72-117/14
100-42-5	Styrene	ND		25	21.6	86	25	22.4	90	4	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	206	82	250	240	96	15	65-124/23
75-65-0	Tert-Butyl Alcohol	ND		250	334	134*	250	378	151*	12	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	24.2	97	25	25.9	104	7	72-120/14
127-18-4	Tetrachloroethylene	ND		25	23.0	92	25	24.3	97	5	76-135/16
109-99-9	Tetrahydrofuran	ND		25	21.3	85	25	25.2	101	17	56-122/21
108-88-3	Toluene	ND		25	23.2	93	25	24.2	97	4	80-120/14
87-61-6	1,2,3-Trichlorobenzene	0.74	J	25	22.0	85	25	24.8	96	12	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	22.8	91	25	25.0	100	9	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	22.4	90	25	23.0	92	3	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	24.3	97	25	25.3	101	4	76-119/14
79-01-6	Trichloroethylene	ND		25	23.3	93	25	24.8	99	6	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	22.7	91	25	22.7	91	0	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	24.9	100	25	26.0	104	4	79-120/18
75-01-4	Vinyl Chloride	ND		25	21.8	87	25	21.5	86	1	69-159/18
	m,p-Xylene	ND		50	47.9	96	50	49.6	99	3	79-126/15
95-47-6	o-Xylene	ND		25	25.2	101	25	26.1	104	4	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA34367-1	Limits
1868-53-7	Dibromofluoromethane	100%	100%	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	101%	101%	79-125%
2037-26-5	Toluene-D8	100%	100%	105%	85-112%
460-00-4	4-Bromofluorobenzene	97%	98%	104%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34395-1MS	J0976992.D	1	06/02/16	DP	n/a	n/a	VJ5326
FA34395-1MSD	J0976993.D	1	06/02/16	DP	n/a	n/a	VJ5326
FA34395-1	J0976975.D	1	06/02/16	DP	n/a	n/a	VJ5326

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

FA34367-4

CAS No.	Compound	FA34395-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
75-65-0	Tert-Butyl Alcohol	648		250	1010	145* [a]	250	1130	193* [a]	11	63-129/27

CAS No.	Surrogate Recoveries	MS	MSD	FA34395-1	Limits
1868-53-7	Dibromofluoromethane	101%	101%	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	99%	103%	79-125%
2037-26-5	Toluene-D8	102%	100%	106%	85-112%
460-00-4	4-Bromofluorobenzene	99%	99%	106%	83-118%

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

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VC4602-BFB
Lab File ID: C0115807.D
Instrument ID: GCMSC
Injection Date: 05/23/16
Injection Time: 08:54

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	56165	17.0		Pass
75	30.0 - 60.0% of mass 95	173901	52.6		Pass
95	Base peak, 100% relative abundance	330837	100.0		Pass
96	5.0 - 9.0% of mass 95	24038	7.27		Pass
173	Less than 2.0% of mass 174	1319	0.40	(0.50) [a]	Pass
174	50.0 - 100.0% of mass 95	265195	80.2		Pass
175	5.0 - 9.0% of mass 174	19526	5.90	(7.36) [a]	Pass
176	95.0 - 101.0% of mass 174	259840	78.5	(98.0) [a]	Pass
177	5.0 - 9.0% of mass 176	19198	5.80	(7.39) [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
VC4602-IC4602	C0115808.D	05/23/16	09:20	00:26	Initial cal 1
VC4602-IC4602	C0115809.D	05/23/16	09:46	00:52	Initial cal 2
VC4602-IC4602	C0115810.D	05/23/16	10:11	01:17	Initial cal 3
VC4602-ICC4602	C0115811.D	05/23/16	10:37	01:43	Initial cal 4
VC4602-IC4602	C0115812.D	05/23/16	11:02	02:08	Initial cal 5
VC4602-IC4602	C0115813.D	05/23/16	11:28	02:34	Initial cal 6
VC4602-IC4602	C0115814.D	05/23/16	11:53	02:59	Initial cal 7
VC4602-ICV4602	C0115817.D	05/23/16	13:10	04:16	Initial cal verification 4
VC4602-BS	C0115817.D	05/23/16	13:10	04:16	Blank Spike
FA34022-5	C0115819.D	05/23/16	14:01	05:07	(used for QC only; not part of job FA34367)
ZZZZZZ	C0115820.D	05/23/16	14:27	05:33	(unrelated sample)
ZZZZZZ	C0115821.D	05/23/16	14:52	05:58	(unrelated sample)
ZZZZZZ	C0115823.D	05/23/16	15:43	06:49	(unrelated sample)
ZZZZZZ	C0115824.D	05/23/16	16:09	07:15	(unrelated sample)
ZZZZZZ	C0115825.D	05/23/16	16:35	07:41	(unrelated sample)
ZZZZZZ	C0115826.D	05/23/16	17:01	08:07	(unrelated sample)
ZZZZZZ	C0115827.D	05/23/16	17:26	08:32	(unrelated sample)
ZZZZZZ	C0115828.D	05/23/16	17:52	08:58	(unrelated sample)
ZZZZZZ	C0115829.D	05/23/16	18:18	09:24	(unrelated sample)
ZZZZZZ	C0115830.D	05/23/16	18:43	09:49	(unrelated sample)
VC4602-MB	C0115831.D	05/23/16	19:09	10:15	Method Blank
FA34022-5MS	C0115832.D	05/23/16	19:34	10:40	Matrix Spike
FA34022-5MSD	C0115833.D	05/23/16	20:00	11:06	Matrix Spike Duplicate
VC4602-ECC4602	C0115834.D	05/23/16	20:26	11:32	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VC4610-BFB
Lab File ID: C0116023.D
Instrument ID: GCMSC
Injection Date: 06/01/16
Injection Time: 09:24

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	52555	17.5		Pass
75	30.0 - 60.0% of mass 95	157387	52.3		Pass
95	Base peak, 100% relative abundance	301099	100.0		Pass
96	5.0 - 9.0% of mass 95	21221	7.05		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	237013	78.7		Pass
175	5.0 - 9.0% of mass 174	17943	5.96	(7.57) [a]	Pass
176	95.0 - 101.0% of mass 174	226645	75.3	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	15380	5.11	(6.79) [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
VC4610-CC4602	C0116026.D	06/01/16	10:41	01:17	Continuing cal 4
VC4610-BS	C0116027.D	06/01/16	11:15	01:51	Blank Spike
VC4610-MB	C0116028.D	06/01/16	11:40	02:16	Method Blank
FA34367-2	C0116029.D	06/01/16	12:06	02:42	SB-101 (6.5-7.5)
FA34367-3	C0116030.D	06/01/16	12:32	03:08	SB-101 (8-9)
FA34367-3MS	C0116031.D	06/01/16	12:58	03:34	Matrix Spike
FA34367-3MSD	C0116032.D	06/01/16	13:23	03:59	Matrix Spike Duplicate
VC4610-ECC4602	C0116033.D	06/01/16	14:39	05:15	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5312-BFB
Lab File ID: J0976752.D
Instrument ID: GCMSJ
Injection Date: 05/24/16
Injection Time: 09:52

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	47293	18.0		Pass
75	30.0 - 60.0% of mass 95	132477	50.4		Pass
95	Base peak, 100% relative abundance	262912	100.0		Pass
96	5.0 - 9.0% of mass 95	17827	6.78		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	208573	79.3		Pass
175	5.0 - 9.0% of mass 174	16138	6.14	(7.74) [a]	Pass
176	95.0 - 101.0% of mass 174	202843	77.2	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	13948	5.31	(6.88) [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
VJ5312-IC5312	J0976753.D	05/24/16	10:33	00:41	Initial cal 1
VJ5312-IC5312	J0976754.D	05/24/16	10:56	01:04	Initial cal 2
VJ5312-IC5312	J0976755.D	05/24/16	11:18	01:26	Initial cal 3
VJ5312-IC5312	J0976756.D	05/24/16	11:41	01:49	Initial cal 4
VJ5312-ICC5312	J0976757.D	05/24/16	12:04	02:12	Initial cal 5
VJ5312-IC5312	J0976758.D	05/24/16	12:27	02:35	Initial cal 6
VJ5312-IC5312	J0976759.D	05/24/16	12:49	02:57	Initial cal 7
VJ5312-ICV5312	J0976761.D	05/24/16	13:36	03:44	Initial cal verification 5
VJ5312-BS	J0976762.D	05/24/16	14:04	04:12	Blank Spike
VJ5312-MB	J0976763.D	05/24/16	14:27	04:35	Method Blank
ZZZZZZ	J0976764.D	05/24/16	14:50	04:58	(unrelated sample)
ZZZZZZ	J0976765.D	05/24/16	15:13	05:21	(unrelated sample)
ZZZZZZ	J0976766.D	05/24/16	15:36	05:44	(unrelated sample)
ZZZZZZ	J0976767.D	05/24/16	15:58	06:06	(unrelated sample)
ZZZZZZ	J0976768.D	05/24/16	16:21	06:29	(unrelated sample)
ZZZZZZ	J0976769.D	05/24/16	16:44	06:52	(unrelated sample)
ZZZZZZ	J0976770.D	05/24/16	17:06	07:14	(unrelated sample)
ZZZZZZ	J0976771.D	05/24/16	17:29	07:37	(unrelated sample)
ZZZZZZ	J0976773.D	05/24/16	18:15	08:23	(unrelated sample)
ZZZZZZ	J0976774.D	05/24/16	18:38	08:46	(unrelated sample)
ZZZZZZ	J0976775.D	05/24/16	19:00	09:08	(unrelated sample)
ZZZZZZ	J0976776.D	05/24/16	19:24	09:32	(unrelated sample)
FA33997-3	J0976777.D	05/24/16	19:46	09:54	(used for QC only; not part of job FA34367)
FA33997-3MS	J0976778.D	05/24/16	20:09	10:17	Matrix Spike

Instrument Performance Check (BFB)

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5312-BFB
Lab File ID: J0976752.D
Instrument ID: GCMSJ
Injection Date: 05/24/16
Injection Time: 09:52

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA33997-3MSD	J0976779.D	05/24/16	20:31	10:39	Matrix Spike Duplicate
VJ5312-ECC5312	J0976780.D	05/24/16	20:54	11:02	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5323-BFB
Lab File ID: J0976940.D
Instrument ID: GCMSJ
Injection Date: 06/01/16
Injection Time: 08:19

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	46443	16.6		Pass
75	30.0 - 60.0% of mass 95	137635	49.2		Pass
95	Base peak, 100% relative abundance	279765	100.0		Pass
96	5.0 - 9.0% of mass 95	19295	6.90		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	220680	78.9		Pass
175	5.0 - 9.0% of mass 174	17607	6.29	(7.98) [a]	Pass
176	95.0 - 101.0% of mass 174	212131	75.8	(96.1) [a]	Pass
177	5.0 - 9.0% of mass 176	14339	5.13	(6.76) [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
VJ5323-CC5312	J0976942.D	06/01/16	09:42	01:23	Continuing cal 5
VJ5324-MB	J0976944.D	06/01/16	10:31	02:12	Method Blank
VJ5323-MB	J0976944.D	06/01/16	10:31	02:12	Method Blank
VJ5324-BS	J0976945.D	06/01/16	11:00	02:41	Blank Spike
VJ5323-BS	J0976945.D	06/01/16	11:00	02:41	Blank Spike
FA34367-1	J0976946.D	06/01/16	11:44	03:25	SB102-GWS
FA34367-4	J0976947.D	06/01/16	12:07	03:48	SB-102-GWD
FA34367-5	J0976948.D	06/01/16	12:30	04:11	BPEB-31
FA34367-6	J0976949.D	06/01/16	12:52	04:33	TB053116
ZZZZZZ	J0976951.D	06/01/16	13:40	05:21	(unrelated sample)
ZZZZZZ	J0976953.D	06/01/16	14:26	06:07	(unrelated sample)
ZZZZZZ	J0976954.D	06/01/16	14:49	06:30	(unrelated sample)
ZZZZZZ	J0976955.D	06/01/16	15:12	06:53	(unrelated sample)
ZZZZZZ	J0976956.D	06/01/16	15:35	07:16	(unrelated sample)
ZZZZZZ	J0976957.D	06/01/16	15:58	07:39	(unrelated sample)
ZZZZZZ	J0976958.D	06/01/16	16:21	08:02	(unrelated sample)
FA34350-15	J0976959.D	06/01/16	16:43	08:24	(used for QC only; not part of job FA34367)
ZZZZZZ	J0976960.D	06/01/16	17:07	08:48	(unrelated sample)
ZZZZZZ	J0976961.D	06/01/16	17:30	09:11	(unrelated sample)
ZZZZZZ	J0976962.D	06/01/16	17:53	09:34	(unrelated sample)
FA34367-1MS	J0976963.D	06/01/16	18:16	09:57	Matrix Spike
FA34367-1MSD	J0976964.D	06/01/16	18:38	10:19	Matrix Spike Duplicate
FA34350-15MS	J0976965.D	06/01/16	19:01	10:42	Matrix Spike
FA34350-15MSD	J0976966.D	06/01/16	19:24	11:05	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5323-BFB
Lab File ID: J0976940.D
Instrument ID: GCMSJ
Injection Date: 06/01/16
Injection Time: 08:19

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ5323-ECC5312	J0976967.D	06/01/16	19:46	11:27	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5325-BFB
Lab File ID: J0976969.D
Instrument ID: GCMSJ
Injection Date: 06/02/16
Injection Time: 08:00

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	48896	16.8		Pass
75	30.0 - 60.0% of mass 95	144805	49.8		Pass
95	Base peak, 100% relative abundance	290496	100.0		Pass
96	5.0 - 9.0% of mass 95	19512	6.72		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	231104	79.6		Pass
175	5.0 - 9.0% of mass 174	18162	6.25	(7.86) [a]	Pass
176	95.0 - 101.0% of mass 174	221440	76.2	(95.8) [a]	Pass
177	5.0 - 9.0% of mass 176	15228	5.24	(6.88) [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
VJ5325-CC5312	J0976971.D	06/02/16	09:44	01:44	Continuing cal 5
VJ5326-BS	J0976972.D	06/02/16	10:15	02:15	Blank Spike
VJ5325-BS	J0976972.D	06/02/16	10:15	02:15	Blank Spike
VJ5326-MB	J0976973.D	06/02/16	10:38	02:38	Method Blank
VJ5325-MB	J0976973.D	06/02/16	10:38	02:38	Method Blank
FA34367-4	J0976974.D	06/02/16	11:01	03:01	SB-102-GWD
FA34395-1	J0976975.D	06/02/16	11:24	03:24	(used for QC only; not part of job FA34367)
ZZZZZZ	J0976976.D	06/02/16	11:46	03:46	(unrelated sample)
ZZZZZZ	J0976977.D	06/02/16	12:09	04:09	(unrelated sample)
ZZZZZZ	J0976978.D	06/02/16	12:32	04:32	(unrelated sample)
ZZZZZZ	J0976979.D	06/02/16	12:55	04:55	(unrelated sample)
ZZZZZZ	J0976980.D	06/02/16	13:18	05:18	(unrelated sample)
FA34252-3	J0976981.D	06/02/16	13:41	05:41	(used for QC only; not part of job FA34367)
ZZZZZZ	J0976982.D	06/02/16	14:04	06:04	(unrelated sample)
ZZZZZZ	J0976983.D	06/02/16	14:27	06:27	(unrelated sample)
ZZZZZZ	J0976984.D	06/02/16	14:50	06:50	(unrelated sample)
ZZZZZZ	J0976985.D	06/02/16	15:13	07:13	(unrelated sample)
ZZZZZZ	J0976986.D	06/02/16	15:36	07:36	(unrelated sample)
ZZZZZZ	J0976987.D	06/02/16	15:59	07:59	(unrelated sample)
ZZZZZZ	J0976988.D	06/02/16	16:21	08:21	(unrelated sample)
ZZZZZZ	J0976989.D	06/02/16	16:44	08:44	(unrelated sample)
ZZZZZZ	J0976990.D	06/02/16	17:07	09:07	(unrelated sample)
ZZZZZZ	J0976991.D	06/02/16	17:30	09:30	(unrelated sample)
FA34395-1MS	J0976992.D	06/02/16	17:53	09:53	Matrix Spike

Instrument Performance Check (BFB)

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5325-BFB
Lab File ID: J0976969.D
Instrument ID: GCMSJ
Injection Date: 06/02/16
Injection Time: 08:00

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA34395-1MSD	J0976993.D	06/02/16	18:16	10:16	Matrix Spike Duplicate
FA34252-3MS	J0976994.D	06/02/16	18:39	10:39	Matrix Spike
FA34252-3MSD	J0976995.D	06/02/16	19:02	11:02	Matrix Spike Duplicate
VJ5325-ECC5312	J0976996.D	06/02/16	19:25	11:25	Ending cal 5

Volatile Internal Standard Area Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VC4610-CC4602	**Injection Date:**	06/01/16
Lab File ID:	C0116026.D	**Injection Time:**	10:41
Instrument ID:	GCMSC	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1138966	6.88	811868	10.00	464555	12.37	104725	4.52
Check Std [b]	1151281	6.88	910366	10.00	520084	12.37	112398	4.52
Upper Limit [c]	2302562	7.38	1820732	10.50	1040168	12.87	224796	5.02
Lower Limit [d]	575641	6.38	455183	9.50	260042	11.87	56199	4.02

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VC4610-BS	1051778	6.88	775776	10.00	423191	12.37	135683	4.53
VC4610-MB	1075800	6.88	785698	10.00	454759	12.37	120156	4.57
FA34367-2	1068801	6.88	777705	10.00	481783	12.37	131877	4.52
FA34367-3	922989	6.88	656739	10.00	417475	12.37	121464	4.52
FA34367-3MS	1024400	6.88	790143	10.00	451518	12.37	99170	4.52
FA34367-3MSD	996173	6.88	729637	10.00	410430	12.37	103510	4.52
VC4610-ECC4602	993335	6.88	775409	10.00	434943	12.37	106624	4.52

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

(a) Initial Cal is: VC4602-ICC4602 C0115811.D 05/23/16 10:37
(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: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5323-CC5312	**Injection Date:**	06/01/16
Lab File ID:	J0976942.D	**Injection Time:**	09:42
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]	1225722	7.76	1002461	10.85	584836	13.21	87450	5.31
Check Std [b]	1419709	7.76	1084071	10.85	611123	13.21	77606	5.30
Upper Limit [c]	2839418	8.26	2168142	11.35	1222246	13.71	155212	5.80
Lower Limit [d]	709855	7.26	542036	10.35	305562	12.71	38803	4.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5324-MB	1253463	7.76	942391	10.85	500335	13.20	71718	5.29
VJ5323-MB	1253463	7.76	942391	10.85	500335	13.20	71718	5.29
VJ5324-BS	1308719	7.76	1014070	10.85	577923	13.20	81619	5.30
VJ5323-BS	1308719	7.76	1014070	10.85	577923	13.20	81619	5.30
FA34367-1	1262319	7.76	948808	10.85	501145	13.21	77941	5.29
FA34367-4	1239981	7.76	943610	10.85	479427	13.21	77710	5.29
FA34367-5	1178872	7.76	893355	10.85	465055	13.21	68539	5.29
FA34367-6	1151670	7.76	866154	10.85	455651	13.21	67579	5.30
ZZZZZZ	1196287	7.76	907445	10.85	518931	13.20	74008	5.29
ZZZZZZ	1188754	7.76	906500	10.85	482391	13.21	70130	5.30
ZZZZZZ	1139867	7.76	855165	10.85	454049	13.21	68974	5.30
ZZZZZZ	1134368	7.76	842078	10.85	448519	13.21	70321	5.30
ZZZZZZ	1113842	7.76	848146	10.85	437025	13.21	68670	5.30
ZZZZZZ	1083772	7.76	824261	10.85	450988	13.20	66933	5.30
ZZZZZZ	1097819	7.76	835740	10.85	435182	13.21	69057	5.29
FA34350-15	1106838	7.76	833924	10.85	427922	13.20	67049	5.30
ZZZZZZ	1111312	7.76	820310	10.85	429613	13.21	66792	5.30
ZZZZZZ	1083110	7.76	811611	10.85	417528	13.20	67431	5.30
ZZZZZZ	1067687	7.76	800868	10.85	426581	13.20	69065	5.29
FA34367-1MS	1182070	7.76	935894	10.85	535242	13.20	81252	5.30
FA34367-1MSD	1266862	7.76	1001376	10.85	562489	13.20	88002	5.30
FA34350-15MS	1270729	7.76	992208	10.85	560793	13.21	88530	5.30
FA34350-15MSD	1299604	7.76	1031946	10.85	575910	13.21	88044	5.30
VJ5323-ECC5312	1350043	7.76	1042690	10.85	588780	13.21	85170	5.30

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

(a) Initial Cal is: VJ5312-ICC5312 J0976757.D 05/24/16 12:04
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5323-CC5312	**Injection Date:**	06/01/16
Lab File ID:	J0976942.D	**Injection Time:**	09:42
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**

(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5325-CC5312	**Injection Date:**	06/02/16
Lab File ID:	J0976971.D	**Injection Time:**	09:44
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]	1225722	7.76	1002461	10.85	584836	13.21	87450	5.31
Check Std [b]	1440743	7.76	1089342	10.85	609941	13.21	93545	5.30
Upper Limit [c]	2881486	8.26	2178684	11.35	1219882	13.71	187090	5.80
Lower Limit [d]	720372	7.26	544671	10.35	304971	12.71	46773	4.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5326-BS	1405243	7.76	1056465	10.85	600070	13.20	89911	5.30
VJ5325-BS	1405243	7.76	1056465	10.85	600070	13.20	89911	5.30
VJ5326-MB	1252420	7.76	937568	10.85	495038	13.20	75320	5.29
VJ5325-MB	1252420	7.76	937568	10.85	495038	13.20	75320	5.29
FA34367-4	1182119	7.76	889071	10.85	468779	13.20	68492	5.30
FA34395-1	1164811	7.76	883062	10.85	458667	13.21	66783	5.30
ZZZZZZ	1116656	7.76	863477	10.85	451127	13.20	64779	5.30
ZZZZZZ	1136686	7.76	861828	10.85	441826	13.21	65351	5.30
ZZZZZZ	1119231	7.76	821055	10.85	445871	13.20	61270	5.30
ZZZZZZ	1094404	7.76	836831	10.85	428282	13.21	60327	5.30
ZZZZZZ	1101378	7.76	831236	10.85	429324	13.21	60336	5.30
FA34252-3	1075502	7.76	812787	10.85	426790	13.21	62081	5.30
ZZZZZZ	1054871	7.76	803700	10.85	414524	13.21	64181	5.30
ZZZZZZ	1088079	7.76	851882	10.85	548222	13.21	68304	5.30
ZZZZZZ	1187970	7.76	903111	10.85	548298	13.21	89045	5.29
ZZZZZZ	1181697	7.76	864848	10.85	462132	13.20	74184	5.29
ZZZZZZ	1159387	7.76	856744	10.85	449807	13.21	71270	5.30
ZZZZZZ	1114099	7.76	826102	10.85	440565	13.21	65135	5.29
ZZZZZZ	1108568	7.76	828225	10.85	437716	13.21	68876	5.30
ZZZZZZ	1103655	7.76	824551	10.85	425245	13.20	73897	5.30
ZZZZZZ	1103984	7.76	831167	10.85	452783	13.21	68610	5.29
ZZZZZZ	1093723	7.76	808318	10.85	425319	13.20	66150	5.30
FA34395-1MS	1190531	7.76	926339	10.85	524158	13.20	78814	5.30
FA34395-1MSD	1253471	7.76	996377	10.85	555667	13.20	84878	5.30
FA34252-3MS	1251968	7.76	984415	10.85	556009	13.21	81536	5.30
FA34252-3MSD	1262916	7.76	1001050	10.85	554274	13.20	84889	5.30
VJ5325-ECC5312	1320699	7.76	1019945	10.85	581468	13.20	86084	5.30

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

Volatile Internal Standard Area Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5325-CC5312	**Injection Date:**	06/02/16
Lab File ID:	J0976971.D	**Injection Time:**	09:44
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: VJ5312-ICC5312 J0976757.D 05/24/16 12:04
(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: FA34367
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
FA34367-1	J0976946.D	102	101	105	104
FA34367-4	J0976974.D	99	103	107	104
FA34367-4	J0976947.D	99	100	104	106
FA34367-5	J0976948.D	100	100	105	105
FA34367-6	J0976949.D	99	102	107	105
FA34367-1MS	J0976963.D	100	103	100	97
FA34367-1MSD	J0976964.D	100	101	100	98
FA34395-1MS	J0976992.D	101	100	102	99
FA34395-1MSD	J0976993.D	101	99	100	99
VJ5324-BS	J0976945.D	98	99	103	97
VJ5324-MB	J0976944.D	99	101	107	105
VJ5326-BS	J0976972.D	100	100	104	98
VJ5326-MB	J0976973.D	99	102	106	105

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

Volatile Surrogate Recovery Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FA34367-2	C0116029.D	113	111	94	87
FA34367-3	C0116030.D	118	112	94	86
FA34367-3MS	C0116031.D	99	100	97	95
FA34367-3MSD	C0116032.D	103	98	101	97
VC4610-BS	C0116027.D	100	100	99	97
VC4610-MB	C0116028.D	114	109	95	88

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

Initial Calibration Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VC4602-ICC4602
Lab FileID: C0115811.D

```
                        Response Factor Report  MSVOA5

Method       : C:\msdchem\2\MET...316APP9-C-Soil.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Mon May 23 13:40:01 2016
Response via : Initial Calibration

Calibration Files
1   =C0115808.D  2   =C0115809.D  3   =C0115810.D  4   =C0115811.D
5   =C0115812.D  6   =C0115813.D  7   =C0115814.D

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

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.734 0.688 0.685 0.620 0.513 0.521 0.490 0.607  16.31
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9980
             Response Ratio = 0.00000 + 0.60120 *A + -0.02814 *A^2

3)P Chloromethane     0.511 0.481 0.468 0.403 0.345 0.351 0.331 0.413  17.83
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
             Response Ratio = 0.00000 + 0.39911 *A + -0.01726 *A^2

4)C Vinyl Chloride    0.486 0.434 0.437 0.386 0.330 0.338 0.332 0.392  15.86
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
             Response Ratio = 0.00000 + 0.36535 *A + -0.00893 *A^2

5)  Bromomethane      0.320 0.278 0.272 0.220 0.171 0.170 0.151 0.226  28.82
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9956
             Response Ratio = 0.00000 + 0.22008 *A + -0.01738 *A^2

6)  Chloroethane      0.217 0.217 0.195 0.157 0.119 0.115 0.096 0.159  31.95
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9944
             Response Ratio = 0.00000 + 0.16366 *A + -0.01702 *A^2

7)  Trichlorofluorome 0.881 0.765 0.785 0.680 0.539 0.508 0.426 0.655  25.55
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
             Response Ratio = 0.00000 + 0.71617 *A + -0.07235 *A^2

8)  Ethyl Ether       0.238 0.253 0.227 0.202 0.173 0.166 0.153 0.202  19.29
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
             Response Ratio = 0.00000 + 0.20670 *A + -0.01366 *A^2

9)  1,2-Dichlorotrifl 0.445 0.406 0.399 0.342 0.277 0.270 0.246 0.341  22.90
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9977
             Response Ratio = 0.00000 + 0.34135 *A + -0.02407 *A^2

10)C 1,1-Dichloroethen 0.679 0.632 0.599 0.531 0.430 0.418 0.391 0.526  21.83
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
             Response Ratio = 0.00000 + 0.51883 *A + -0.03267 *A^2

11)  Freon 113        0.475 0.407 0.411 0.358 0.282 0.280 0.258 0.353  23.27
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9968
             Response Ratio = 0.00000 + 0.34868 *A + -0.02311 *A^2

12)  Carbon Disulfide  1.270 1.112 1.092 0.950 0.746 0.723 0.666 0.937  24.70
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9969
             Response Ratio = 0.00000 + 0.92859 *A + -0.06722 *A^2

13)  Iodomethane      0.866 0.813 0.797 0.716 0.590 0.583 0.542 0.701  18.47
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            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9982
              Response Ratio = 0.00000 + 0.70545 *A + -0.04141 *A^2

14)  Allyl chloride    0.526 0.508 0.501 0.434 0.350 0.349 0.317 0.426  20.53
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9972
              Response Ratio = 0.00000 + 0.43195 *A + -0.02900 *A^2

15)  Methylene Chlorid 0.595 0.498 0.425 0.353 0.284 0.280 0.258 0.385  33.02
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9970
              Response Ratio = 0.00000 + 0.35090 *A + -0.02363 *A^2

16)  Acetone           0.107 0.090 0.076 0.064 0.061 0.059 0.058 0.074  25.69
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.06593 *A + -0.00043 *A^2

17)  Methyl acetate    0.151 0.149 0.127 0.109 0.097 0.095 0.092 0.117  21.68
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.10915 *A + -0.00088 *A^2

18)  trans-1,2-Dichlor 0.575 0.515 0.493 0.441 0.351 0.347 0.320 0.435  22.55
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9973
              Response Ratio = 0.00000 + 0.43017 *A + -0.02805 *A^2

19)  Hexane            0.272 0.233 0.220 0.210 0.172 0.171 0.165 0.206  19.17
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9980
              Response Ratio = 0.00000 + 0.19751 *A + -0.00841 *A^2

20)  Methyl Tert Butyl 1.073 1.112 1.011 0.878 0.777 0.744 0.700 0.899  18.56
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.90027 *A + -0.05097 *A^2

21)  Acetonitrile      0.022 0.019 0.015 0.014 0.013 0.013 0.013 0.015  23.89
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.01357 *A + -0.00003 *A^2

22)  Di-isopropyl ethe 0.848 0.870 0.847 0.752 0.644 0.624 0.589 0.739  16.18
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.75007 *A + -0.04110 *A^2

23)  Chloroprene       0.815 0.748 0.732 0.642 0.532 0.511 0.483 0.638  20.59
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.63178 *A + -0.03823 *A^2

24)P 1,1-Dichloroethan 0.677 0.636 0.616 0.541 0.454 0.446 0.419 0.541  19.18
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.53498 *A + -0.02958 *A^2

25)  Acrylonitrile     0.063 0.062 0.054 0.048 0.045 0.046 0.045 0.052  15.65
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.04839 *A + -0.00019 *A^2

26)  ETBE              1.107 1.117 1.032 0.912 0.795 0.756 0.703 0.918  18.65
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.93691 *A + -0.05931 *A^2

27)  Vinyl acetate     0.471 0.402 0.393 0.329 0.291 0.272 0.251 0.344  23.39
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.34561 *A + -0.00480 *A^2

28)  cis-1,2-Dichloroe 0.496 0.467 0.451 0.410 0.338 0.331 0.314 0.401  18.33
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             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9982
               Response Ratio = 0.00000 + 0.39692 *A + -0.02126 *A^2

29)  2,2-Dichloropropa 0.592 0.515 0.498 0.418 0.329 0.322 0.276 0.422  27.91
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9963
               Response Ratio = 0.00000 + 0.43274 *A + -0.03907 *A^2

30)  Bromochloromethan 0.240 0.218 0.217 0.194 0.166 0.162 0.155 0.193  17.11
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
               Response Ratio = 0.00000 + 0.18987 *A + -0.00894 *A^2

31)  Cyclohexane       0.663 0.619 0.579 0.523 0.431 0.422 0.407 0.521  19.84
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9980
               Response Ratio = 0.00000 + 0.50130 *A + -0.02460 *A^2

32)C Chloroform        0.813 0.821 0.774 0.662 0.585 0.565 0.528 0.678  18.30
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
               Response Ratio = 0.00000 + 0.68090 *A + -0.03876 *A^2

33)  Ethyl acetate     0.164 0.153 0.143 0.129 0.129 0.124 0.124 0.138  11.34
34)  Tetrahydrofuran   0.064 0.052 0.043 0.037 0.037 0.037 0.038 0.044  23.64
35)S Dibromofluorometh 0.349 0.354 0.337 0.316 0.300 0.287 0.279 0.317   9.40
36)  Carbon Tetrachlor 0.933 0.862 0.752 0.761 0.621 0.617 0.575 0.732  18.39
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9981
               Response Ratio = 0.00000 + 0.73584 *A + -0.04058 *A^2

37)  1,1,1-Trichloroet 0.832 0.786 0.751 0.685 0.543 0.530 0.477 0.658  21.35
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
               Response Ratio = 0.00000 + 0.67939 *A + -0.05100 *A^2

38)  2-Butanone        0.092 0.090 0.083 0.072 0.077 0.070 0.071 0.079  11.70
39)  1,1-Dichloroprope 0.564 0.534 0.503 0.476 0.395 0.389 0.370 0.462  16.72
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
               Response Ratio = 0.00000 + 0.45920 *A + -0.02281 *A^2

40)  Propionitrile     0.034 0.030 0.024 0.021 0.019 0.019 0.019 0.024  25.54
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
               Response Ratio = 0.00000 + 0.02068 *A + -0.00005 *A^2

41)  Methacrylonitrile 0.128 0.122 0.106 0.092 0.088 0.083 0.079 0.100  19.31
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.09779 *A + -0.00047 *A^2

42)  Benzene           1.366 1.314 1.267 1.141 0.976 0.942 0.892 1.128  17.14
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
               Response Ratio = 0.00000 + 1.13541 *A + -0.06239 *A^2

43)  TAME              1.003 1.021 0.958 0.856 0.759 0.716 0.705 0.860  15.82
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
               Response Ratio = 0.00000 + 0.84442 *A + -0.03681 *A^2

44)S 1,2-Dichloroethan 0.379 0.385 0.358 0.343 0.336 0.322 0.324 0.350   7.28
45)  1,2-Dichloroethan 0.546 0.517 0.493 0.454 0.410 0.384 0.368 0.453  15.11
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
               Response Ratio = 0.00000 + 0.46235 *A + -0.02421 *A^2

46)  Trichloroethene   0.404 0.383 0.377 0.339 0.300 0.292 0.278 0.339  14.79
47)  Methylcyclohexane 0.724 0.672 0.620 0.581 0.459 0.456 0.432 0.564  20.59
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9971
               Response Ratio = 0.00000 + 0.54865 *A + -0.02998 *A^2
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48)  Dibromomethane    0.222 0.205 0.234 0.211 0.183 0.182 0.163 0.200  12.59
49)C 1,2-Dichloropropa 0.303 0.248 0.311 0.288 0.249 0.245 0.200 0.263  14.88
50)  Bromodichlorometh 0.573 0.479 0.546 0.490 0.449 0.441 0.365 0.478  14.50
51)  Methyl methacryla 0.201 0.156 0.162 0.157 0.160 0.154 0.135 0.161  12.44
52)  2-Chloroethyl vin 0.121 0.101 0.108 0.092 0.103 0.095 0.093 0.102  10.07
53)  cis-1,3-Dichlorop 0.481 0.435 0.457 0.422 0.429 0.412 0.399 0.433   6.36

54) I   Chlorobenzene-d5      ----------------ISTD---------------------
55)S Toluene-d8        1.368 1.396 1.416 1.483 1.381 1.463 1.481 1.427   3.39
56)C Toluene           1.900 1.852 1.804 1.756 1.370 1.358 1.258 1.614  16.90
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9969
              Response Ratio = 0.00000 + 1.67231 *A + -0.10552 *A^2

57)  2-Nitropropane    0.115 0.104 0.097 0.095 0.086 0.086 0.085 0.095  11.64
58)  4-Methyl-2-pentan 0.313 0.313 0.284 0.252 0.203 0.193 0.178 0.248  23.09
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9979
              Response Ratio = 0.00000 + 0.25022 *A + -0.00369 *A^2

59)  trans-1,3-Dichlor 0.445 0.395 0.396 0.390 0.408             0.407   5.52
60)  Tetrachloroethene 0.607 0.574 0.582 0.573 0.478 0.491 0.482 0.541  10.18
61)  Ethyl methacrylat 0.379 0.381 0.395 0.367 0.334 0.326 0.320 0.358   8.43
62)  1,1,2-Trichloroet 0.261 0.258 0.245 0.237 0.208 0.210 0.205 0.232  10.37
63)  Dibromochlorometh 0.448 0.460 0.458 0.471 0.439 0.432 0.423 0.447   3.80
64)  1,3-Dichloropropa 0.468 0.470 0.470 0.464 0.438 0.435 0.430 0.454   4.03
65)  1,2-Dibromoethane 0.311 0.324 0.311 0.300 0.310 0.304 0.305 0.309   2.52
66)  2-hexanone        0.179 0.178 0.161 0.144 0.135 0.130 0.126 0.150  14.94
67)  1-Chlorohexane    0.639 0.577 0.581 0.587 0.470 0.476 0.458 0.541  13.21
68)C Ethylbenzene      2.062 1.989 1.966 1.855 1.400 1.340 1.211 1.689  21.18
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9961
              Response Ratio = 0.00000 + 1.78967 *A + -0.14750 *A^2

69)P Chlorobenzene     1.075 1.038 1.041 0.997 0.855 0.835 0.787 0.947  12.40
70)  1,1,1,2-Tetrachlo 0.574 0.601 0.588 0.607 0.465 0.476 0.453 0.538  12.93
71)  m,p-Xylene        1.790 1.695 1.594 1.458 1.040 0.963 0.841 1.340  28.72
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9925
              Response Ratio = 0.00000 + 1.56270 *A + -0.09562 *A^2

72)  o-Xylene          2.054 2.061 1.991 1.897 1.392 1.322 1.207 1.704  22.22
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9947
              Response Ratio = 0.00000 + 1.79389 *A + -0.15087 *A^2

73)  Styrene           1.223 1.171 1.165 1.086 0.924 0.891 0.840 1.043  14.85
74)P Bromoform         0.272 0.268 0.274 0.261 0.255 0.256 0.254 0.263   3.19
75)  Isopropylbenzene  2.581 2.519 2.472 2.334 1.679 1.621 1.441 2.093  23.43
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9938
              Response Ratio = 0.00000 + 2.22058 *A + -0.19856 *A^2


76) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
77)S 4-Bromofluorobenz 0.726 0.743 0.756 0.806 0.827 0.861 0.855 0.796   6.91
78)  cis-1,4-Dichloro- 0.165 0.155 0.146 0.130 0.154 0.147 0.147 0.149   7.19
79)  n-Propylbenzene   4.037 3.970 3.829 3.879 2.716 2.657 2.325 3.345  22.17
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9924
              Response Ratio = 0.00000 + 3.64623 *A + -0.33464 *A^2

80)  Bromobenzene      0.875 0.855 0.840 0.840 0.717 0.732 0.685 0.792   9.81
81)P 1,1,2,2-Tetrachlo 0.694 0.734 0.703 0.710 0.600 0.611 0.582 0.662   9.36
82)  1,3,5-Trimethylbe 3.383 3.418 3.270 3.396 2.422 2.400 2.111 2.914  19.73
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9933
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                Response Ratio = 0.00000 + 3.19524 *A + -0.27351 *A^2

 83)  2-Chlorotoluene   3.084 3.078 2.921 2.984 2.201 2.189 1.959 2.631  18.66
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9949
                Response Ratio = 0.00000 + 2.82218 *A + -0.21786 *A^2

 84)  trans-1,4-Dichlor 0.160 0.148 0.147 0.129 0.135 0.131 0.134 0.141   8.12
 85)  1,2,3-Trichloropr 0.244 0.236 0.228 0.217 0.199 0.204 0.195 0.218   8.79
 86)  Cyclohexanone     0.046 0.033 0.028 0.030 0.025 0.027 0.026 0.031  23.47
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
                Response Ratio = 0.00000 + 0.02777 *A + -0.00009 *A^2

 87)  4-Chlorotoluene   2.681 2.464 2.433 2.368 1.896 1.860 1.705 2.201  16.96
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9978
                Response Ratio = 0.00000 + 2.30894 *A + -0.15251 *A^2

 88)  tert-Butylbenzene 1.846 2.040 2.018 2.319 1.752 1.813 1.639 1.918  11.79
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9951
                Response Ratio = 0.00000 + 2.15530 *A + -0.12809 *A^2

 89)  1,2,4-Trimethylbe 3.315 3.326 3.157 3.235 2.364 2.340 2.044 2.826  19.53
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9945
                Response Ratio = 0.00000 + 3.10182 *A + -0.26563 *A^2

 90)  Pentachloroethane 0.564 0.643 0.618 0.719 0.544 0.581 0.538 0.601  10.73
 91)  sec-Butylbenzene  3.992 4.035 3.911 4.202 3.002 2.975 2.548 3.523  18.74
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9934
                Response Ratio = 0.00000 + 4.15150 *A + -0.40811 *A^2

 92)  4-Isopropyltoluen 3.663 3.650 3.580 3.777 2.724 2.676 2.360 3.205  18.47
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9940
                Response Ratio = 0.00000 + 3.56490 *A + -0.30395 *A^2

 93)  1,3-Dichlorobenze 1.793 1.719 1.673 1.644 1.340 1.296 1.218 1.526  15.27
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
                Response Ratio = 0.00000 + 1.58913 *A + -0.09481 *A^2

 94)  1,4-Dichlorobenze 1.564 1.512 1.479 1.474 1.231 1.214 1.145 1.374  12.42
 95)  n-Butylbenzene    1.910 1.882 1.805 1.862 1.393 1.371 1.255 1.640  17.41
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9956
                Response Ratio = 0.00000 + 1.74489 *A + -0.12463 *A^2

 96)  Benzyl Chloride   0.359 0.336 0.320 0.302 0.274 0.266 0.258 0.302  12.58
 97)  1,2-Dichlorobenze 1.866 1.899 1.764 1.774 1.381 1.378 1.263 1.618  16.48
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9968
                Response Ratio = 0.00000 + 1.69535 *A + -0.10929 *A^2

 98)  1,2-Dibromo-3-Chl 0.219 0.221 0.201 0.198 0.177 0.181 0.175 0.196   9.84
 99)  Hexachlorobutadie 0.978 0.870 0.885 0.969 0.814 0.855 0.799 0.881   7.91
100)  1,2,4-Trichlorobe 1.583 1.575 1.497 1.522 1.132 1.122 1.030 1.352  18.07
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9952
                Response Ratio = 0.00000 + 1.41974 *A + -0.09932 *A^2

101)  Naphthalene       3.389 3.417 3.242 3.066 2.309 2.237 1.984 2.806  21.66
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9959
                Response Ratio = 0.00000 + 2.98897 *A + -0.25408 *A^2

102)  1,2,3-Trichlorobe 1.586 1.541 1.495 1.493 1.112 1.101 1.020 1.335  18.34
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9952
                Response Ratio = 0.00000 + 1.38607 *A + -0.09388 *A^2
```

Initial Calibration Summary

Job Number: FA34367 **Sample:** VC4602-ICC4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115811.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
103) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
104)  Ethanol           0.050 0.052 0.051 0.053 0.050 0.052 0.060 0.053   6.45
105)  Acrolein          1.611 1.770 1.751 1.953 1.520 1.713 2.101 1.774  11.13
106)  Tert butyl alcoho 1.285 1.184 1.264 1.367 1.206 1.341 1.763 1.344  14.61
107)  Isobutyl alcohol  0.196 0.185 0.181 0.213 0.187 0.213       0.196   7.15
108)  Tert Amyl Alcohol 0.928 1.013 1.031 1.116 1.000 1.074 1.389 1.079  13.82
109)  1,4-Dioxane       0.128 0.107 0.126 0.154 0.131 0.137 0.174 0.137  15.74
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9909
               Response Ratio = 0.00000 + 0.09713 *A + 0.00447 *A^2

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 (#) = Out of Range

          052316APP9-C-Soil.m        Mon May 23 14:35:10 2016
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6.7.1

6

Initial Calibration Verification

Job Number: FA34367 **Sample:** VC4602-ICV4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115817.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\052316\C0115817.D Vial: 15
Acq On : 23 May 2016 1:10 pm Operator: ericp
Sample : ICV4602-4,BS Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\MET...316APP9-C-Soil.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon May 23 14:36:43 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	109	0.00	6.88
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	50.000	51.619	-3.2	104	0.00	2.22
3	P	Chloromethane	50.000	52.836	-5.7	109	0.00	2.41
4	C	Vinyl Chloride	50.000	52.241	-4.5	105	0.00	2.52
5		Bromomethane	50.000	52.328	-4.7	105	0.00	2.87
6		Chloroethane	50.000	51.604	-3.2	104	0.00	3.01
7		Trichlorofluoromethane	50.000	49.450	1.1	102	0.00	3.16
8		Ethyl Ether	50.000	51.392	-2.8	107	0.00	3.43
9		1,2-Dichlorotrifluoroetha	50.000	57.286	-14.6	115	0.00	3.65
10	C	1,1-Dichloroethene	50.000	54.675	-9.3	108	0.00	3.66
11		Freon 113	50.000	51.926	-3.9	102	0.00	3.71
12		Carbon Disulfide	50.000	52.508	-5.0	103	0.00	3.71
13		Iodomethane	50.000	51.658	-3.3	104	0.00	3.82
14		Allyl chloride	50.000	44.522	11.0	91	0.00	4.14
15		Methylene Chloride	50.000	55.917	-11.8	112	0.00	4.25
16		Acetone	250.000	206.722	17.3	90	0.00	4.30
17		Methyl acetate	250.000	269.273	-7.7	112	0.00	4.41
18		trans-1,2-Dichloroethene	50.000	56.895	-13.8	112	0.00	4.41
19		Hexane	50.000	58.957	-17.9	115	0.00	4.47
20		Methyl Tert Butyl Ether	50.000	50.353	-0.7	106	0.00	4.51
21		Acetonitrile	500.000	475.451	4.9	101	0.00	4.78
22		Di-isopropyl ether	50.000	52.443	-4.9	107	0.00	4.88
23		Chloroprene	50.000	47.935	4.1	97	0.00	5.01
24	P	1,1-Dichloroethane	50.000	54.486	-9.0	110	0.00	5.04
25		Acrylonitrile	250.000	269.825	-7.9	115	0.00	5.10
26		ETBE	50.000	50.331	-0.7	105	0.00	5.25
27		Vinyl acetate	250.000	283.513	-13.4	119	0.00	5.27
28		cis-1,2-Dichloroethene	50.000	52.127	-4.3	104	0.00	5.59
29		2,2-Dichloropropane	50.000	52.985	-6.0	108	0.00	5.70
30		Bromochloromethane	50.000	50.606	-1.2	103	0.00	5.80
31		Cyclohexane	50.000	53.331	-6.7	105	0.00	5.81
32	C	Chloroform	50.000	51.659	-3.3	109	0.00	5.86
			AvgRF	CCRF	%Dev			
33		Ethyl acetate	0.138	0.150	-8.7	127	0.00	5.96
			Amount	Calc.	%Drift			
34		Tetrahydrofuran	50.000	58.908	-17.8	128	0.00	6.04
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FA34367 **Sample:** VC4602-ICV4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115817.D
Project: BMSMC, Building 5 Area, Humacao, PR

35	S	Dibromofluoromethane	0.317	0.305	3.8	105	0.00	6.05
		----------	Amount	Calc.	%Drift		----------	
36		Carbon Tetrachloride	50.000	53.826	-7.7	107	0.00	6.01
37		1,1,1-Trichloroethane	50.000	50.067	-0.1	100	0.00	6.09
		----------	AvgRF	CCRF	%Dev		----------	
38		2-Butanone	0.079	0.070	11.4	107	0.00	6.18
		----------	Amount	Calc.	%Drift		----------	
39		1,1-Dichloropropene	50.000	55.898	-11.8	111	0.00	6.21
40		Propionitrile	500.000	525.164	-5.0	110	0.00	6.50
41		Methacrylonitrile	500.000	522.210	-4.4	114	0.00	6.51
42		Benzene	50.000	53.939	-7.9	110	0.00	6.47
43		TAME	50.000	49.699	0.6	102	0.00	6.56
		----------	AvgRF	CCRF	%Dev		----------	
44	S	1,2-Dichloroethane-d4	0.350	0.332	5.1	105	0.00	6.61
		----------	Amount	Calc.	%Drift		----------	
45		1,2-Dichloroethane	50.000	52.698	-5.4	110	0.00	6.68
		----------	AvgRF	CCRF	%Dev		----------	
46		Trichloroethene	0.339	0.351	-3.5	113	0.00	7.05
		----------	Amount	Calc.	%Drift		----------	
47		Methylcyclohexane	50.000	55.706	-11.4	108	0.00	7.05
		----------	AvgRF	CCRF	%Dev		----------	
48		Dibromomethane	0.200	0.212	-6.0	110	0.00	7.49
49	C	1,2-Dichloropropane	0.263	0.287	-9.1	109	0.00	7.59
50		Bromodichloromethane	0.478	0.517	-8.2	115	0.00	7.64
51		Methyl methacrylate	0.161	0.175	-8.7	122	0.00	7.77
52		2-Chloroethyl vinyl ether	0.102	0.116	-13.7	138	0.00	8.19
53		cis-1,3-Dichloropropene	0.433	0.493	-13.9	127	0.00	8.26
54	I	Chlorobenzene-d5	1.000	1.000	0.0	118	0.00	10.00
55	S	Toluene-d8	1.427	1.390	2.6	111	0.00	8.45
		----------	Amount	Calc.	%Drift		----------	
56	C	Toluene	50.000	54.236	-8.5	114	0.00	8.50
		----------	AvgRF	CCRF	%Dev		----------	
57		2-Nitropropane	0.095	0.089	6.3	111	0.00	8.75
		----------	Amount	Calc.	%Drift		----------	
58		4-Methyl-2-pentanone	250.000	246.324	1.5	107	0.00	8.87
		----------	AvgRF	CCRF	%Dev		----------	
59		trans-1,3-Dichloropropene	0.407	0.485	-19.2	148	0.00	8.92
60		Tetrachloroethene	0.541	0.571	-5.5	118	0.00	8.89
61		Ethyl methacrylate	0.358	0.340	5.0	109	0.00	9.04
62		1,1,2-Trichloroethane	0.232	0.246	-6.0	123	0.00	9.08
63		Dibromochloromethane	0.447	0.501	-12.1	126	0.00	9.26
64		1,3-Dichloropropane	0.454	0.490	-7.9	125	0.00	9.35
65		1,2-Dibromoethane	0.309	0.356	-15.2	141	0.00	9.51
66		2-hexanone	0.150	0.140	6.7	116	0.00	9.69
67		1-Chlorohexane	0.541	0.565	-4.4	114	0.00	9.97
		----------	Amount	Calc.	%Drift		----------	

Initial Calibration Verification

Job Number: FA34367 **Sample:** VC4602-ICV4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0115817.D
Project: BMSMC, Building 5 Area, Humacao, PR

68	C	Ethylbenzene	50.000	54.805	-9.6	114	0.00	10.03
		----------	AvgRF	CCRF	%Dev	----------		
69	P	Chlorobenzene	0.947	1.047	-10.6	124	0.00	10.02
70		1,1,1,2-Tetrachloroethane	0.538	0.560	-4.1	109	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
71		m,p-Xylene	100.000	103.044	-3.0	114	0.00	10.17
72		o-Xylene	50.000	54.753	-9.5	111	0.00	10.61
		----------	AvgRF	CCRF	%Dev	----------		
73		Styrene	1.043	1.120	-7.4	122	0.00	10.66
74	P	Bromoform	0.263	0.286	-8.7	130	0.00	10.71
		----------	Amount	Calc.	%Drift	----------		
75		Isopropylbenzene	50.000	55.082	-10.2	112	0.00	10.92
		----------	AvgRF	CCRF	%Dev	----------		
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	120	0.00	12.37
77	S	4-Bromofluorobenzene	0.796	0.818	-2.8	122	0.00	11.23
78		cis-1,4-Dichloro-2-butene	0.149	0.146	2.0	135	0.00	11.28
		----------	Amount	Calc.	%Drift	----------		
79		n-Propylbenzene	50.000	55.890	-11.8	113	0.00	11.34
		----------	AvgRF	CCRF	%Dev	----------		
80		Bromobenzene	0.792	0.855	-8.0	122	0.00	11.34
81	P	1,1,2,2-Tetrachloroethane	0.662	0.696	-5.1	118	0.00	11.42
		----------	Amount	Calc.	%Drift	----------		
82		1,3,5-Trimethylbenzene	50.000	52.543	-5.1	108	0.00	11.53
83		2-Chlorotoluene	50.000	54.197	-8.4	113	0.00	11.52
		----------	AvgRF	CCRF	%Dev	----------		
84		trans-1,4-Dichloro-2-Bute	0.141	0.146	-3.5	137	0.00	11.60
85		1,2,3-Trichloropropane	0.218	0.225	-3.2	124	0.00	11.57
		----------	Amount	Calc.	%Drift	----------		
86		Cyclohexanone	250.000	215.030	14.0	95	0.00	11.63
87		4-Chlorotoluene	50.000	56.143	-12.3	122	0.00	11.68
88		tert-Butylbenzene	50.000	53.383	-6.8	112	0.00	11.87
89		1,2,4-Trimethylbenzene	50.000	53.723	-7.4	113	0.00	11.93
		----------	AvgRF	CCRF	%Dev	----------		
90		Pentachloroethane	0.601	0.649	-8.0	109	0.00	11.91
		----------	Amount	Calc.	%Drift	----------		
91		sec-Butylbenzene	50.000	53.456	-6.9	114	0.00	12.05
92		4-Isopropyltoluene	50.000	54.530	-9.1	112	0.00	12.19
93		1,3-Dichlorobenzene	50.000	57.132	-14.3	124	0.00	12.30
		----------	AvgRF	CCRF	%Dev	----------		
94		1,4-Dichlorobenzene	1.374	1.532	-11.5	125	0.00	12.39
		----------	Amount	Calc.	%Drift	----------		
95		n-Butylbenzene	50.000	55.387	-10.8	115	0.00	12.63
		----------	AvgRF	CCRF	%Dev	----------		
96		Benzyl Chloride	0.302	0.305	-1.0	122	0.00	12.64

Initial Calibration Verification

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VC4602-ICV4602
Lab FileID: C0115817.D

		Amount	Calc.	%Drift			
97	1,2-Dichlorobenzene	50.000	55.917	-11.8	119	0.00	12.83

		AvgRF	CCRF	%Dev			
98	1,2-Dibromo-3-Chloropropa	0.196	0.192	2.0	117	0.00	13.64
99	Hexachlorobutadiene	0.881	1.008	-14.4	125	0.00	14.22

		Amount	Calc.	%Drift			
100	1,2,4-Trichlorobenzene	50.000	55.416	-10.8	115	0.00	14.26
101	Naphthalene	50.000	58.367	-16.7	123	0.00	14.55
102	1,2,3-Trichlorobenzene	50.000	56.579	-13.2	117	0.00	14.71

		AvgRF	CCRF	%Dev			
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	118	0.00	4.52
104	Ethanol	0.053	0.062	-17.0	139	0.02	3.59
105	Acrolein	1.774	1.800	-1.5	109	0.00	4.01
106	Tert butyl alcohol	1.344	1.318	1.9	114	0.00	4.60
107	Isobutyl alcohol	0.196	0.209	-6.6	116	0.00	6.65
108	Tert Amyl Alcohol	1.079	1.065	1.3	113	0.00	6.75

		Amount	Calc.	%Drift			
109	1,4-Dioxane	1000.000	1199.597	-20.0	109	0.00	7.85

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0115811.D 052316APP9-C-Soil.m Mon May 23 14:37:57 2016

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VC4610-CC4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0116026.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\2\DATA\060116\C0116026.D Vial: 8
Acq On : 1 Jun 2016 10:41 am Operator: ericp
Sample : CC4602-4 Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\MET...316APP9-C-Soil.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon May 23 14:36:43 2016
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00	6.88
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	50.000	55.344	-10.7	103	0.00	2.22
3	P	Chloromethane	50.000	54.194	-8.4	104	0.01	2.41
4	C	Vinyl Chloride	50.000	54.464	-8.9	101	0.02	2.53
5		Bromomethane	50.000	54.889	-9.8	101	0.01	2.88
6		Chloroethane	50.000	55.483	-11.0	103	0.02	3.02
7		Trichlorofluoromethane	50.000	52.117	-4.2	99	0.02	3.18
8		Ethyl Ether	50.000	52.237	-4.5	101	0.00	3.44
9		1,2-Dichlorotrifluoroetha	50.000	53.051	-6.1	99	0.02	3.67
10	C	1,1-Dichloroethene	50.000	53.119	-6.2	98	0.00	3.67
11		Freon 113	50.000	51.094	-2.2	94	0.01	3.72
12		Carbon Disulfide	50.000	49.944	0.1	92	0.00	3.71
13		Iodomethane	50.000	48.425	3.2	91	0.00	3.82
14		Allyl chloride	50.000	47.311	5.4	89	0.00	4.15
15		Methylene Chloride	50.000	52.943	-5.9	99	0.00	4.26
16		Acetone	250.000	283.234	-13.3	113	0.00	4.31
17		Methyl acetate	250.000	257.600	-3.0	100	0.00	4.41
18		trans-1,2-Dichloroethene	50.000	50.655	-1.3	93	0.00	4.42
19		Hexane	50.000	50.781	-1.6	92	0.00	4.48
20		Methyl Tert Butyl Ether	50.000	48.518	3.0	95	0.00	4.51
21		Acetonitrile	500.000	565.592	-13.1	111	0.00	4.80
22		Di-isopropyl ether	50.000	49.573	0.9	95	0.00	4.88
23		Chloroprene	50.000	46.924	6.2	88	0.00	5.02
24	P	1,1-Dichloroethane	50.000	49.756	0.5	94	0.00	5.05
25		Acrylonitrile	250.000	253.072	-1.2	101	0.00	5.11
26		ETBE	50.000	47.763	4.5	93	0.00	5.25
27		Vinyl acetate	250.000	262.272	-4.9	103	0.00	5.27
28		cis-1,2-Dichloroethene	50.000	49.378	1.2	92	0.00	5.59
29		2,2-Dichloropropane	50.000	47.713	4.6	91	0.00	5.70
30		Bromochloromethane	50.000	47.944	4.1	91	0.00	5.80
31		Cyclohexane	50.000	48.783	2.4	90	0.00	5.81
32	C	Chloroform	50.000	48.082	3.8	95	0.00	5.86
			AvgRF	CCRF	%Dev			
33		Ethyl acetate	0.138	0.137	0.7	108	0.00	5.96
			Amount	Calc.	%Drift			
34		Tetrahydrofuran	50.000	50.235	-0.5	102	0.00	6.04
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VC4610-CC4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0116026.D
Project: BMSMC, Building 5 Area, Humacao, PR

35	S	Dibromofluoromethane	0.317	0.301	5.0	97	0.00	6.06
		----------	Amount	Calc.	%Drift		----------	
36		Carbon Tetrachloride	50.000	48.580	2.8	90	0.00	6.02
37		1,1,1-Trichloroethane	50.000	47.797	4.4	89	0.00	6.09
		----------	AvgRF	CCRF	%Dev		----------	
38		2-Butanone	0.079	0.083	-5.1	116	0.00	6.18
		----------	Amount	Calc.	%Drift		----------	
39		1,1-Dichloropropene	50.000	49.376	1.2	92	0.00	6.21
40		Propionitrile	500.000	537.245	-7.4	105	0.00	6.50
41		Methacrylonitrile	500.000	515.643	-3.1	105	0.00	6.52
42		Benzene	50.000	51.374	-2.7	97	0.00	6.47
43		TAME	50.000	46.592	6.8	89	0.00	6.56
		----------	AvgRF	CCRF	%Dev		----------	
44	S	1,2-Dichloroethane-d4	0.350	0.338	3.4	100	0.00	6.61
		----------	Amount	Calc.	%Drift		----------	
45		1,2-Dichloroethane	50.000	50.226	-0.5	98	0.00	6.68
		----------	AvgRF	CCRF	%Dev		----------	
46		Trichloroethene	0.339	0.336	0.9	100	0.00	7.05
		----------	Amount	Calc.	%Drift		----------	
47		Methylcyclohexane	50.000	49.664	0.7	90	0.00	7.05
		----------	AvgRF	CCRF	%Dev		----------	
48		Dibromomethane	0.200	0.191	4.5	92	0.00	7.49
49	C	1,2-Dichloropropane	0.263	0.231	12.2	81	0.00	7.59
50		Bromodichloromethane	0.478	0.472	1.3	97	0.00	7.64
51		Methyl methacrylate	0.161	0.156	3.1	101	0.00	7.77
52		2-Chloroethyl vinyl ether	0.102	0.113	-10.8	124	0.00	8.19
53		cis-1,3-Dichloropropene	0.433	0.460	-6.2	110	0.00	8.27
54	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00	10.00
55	S	Toluene-d8	1.427	1.352	5.3	102	0.00	8.45
		----------	Amount	Calc.	%Drift		----------	
56	C	Toluene	50.000	49.138	1.7	98	0.00	8.50
		----------	AvgRF	CCRF	%Dev		----------	
57		2-Nitropropane	0.095	0.082	13.7	97	0.00	8.75
		----------	Amount	Calc.	%Drift		----------	
58		4-Methyl-2-pentanone	250.000	236.104	5.6	98	0.00	8.87
		----------	AvgRF	CCRF	%Dev		----------	
59		trans-1,3-Dichloropropene	0.407	0.423	-3.9	122	0.00	8.92
60		Tetrachloroethene	0.541	0.467	13.7	92	0.00	8.89
61		Ethyl methacrylate	0.358	0.315	12.0	96	0.00	9.04
62		1,1,2-Trichloroethane	0.232	0.227	2.2	107	0.00	9.08
63		Dibromochloromethane	0.447	0.435	2.7	104	0.00	9.26
64		1,3-Dichloropropane	0.454	0.463	-2.0	112	0.00	9.35
65		1,2-Dibromoethane	0.309	0.315	-1.9	118	0.00	9.51
66		2-hexanone	0.150	0.141	6.0	110	0.00	9.69
67		1-Chlorohexane	0.541	0.475	12.2	91	0.00	9.97
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VC4610-CC4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0116026.D
Project: BMSMC, Building 5 Area, Humacao, PR

68	C	Ethylbenzene	50.000	48.426	3.1	96	0.00	10.03
		----------	AvgRF	CCRF	%Dev	----------		
69	P	Chlorobenzene	0.947	0.934	1.4	105	0.00	10.02
70		1,1,1,2-Tetrachloroethane	0.538	0.483	10.2	89	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
71		m,p-Xylene	100.000	90.636	9.4	97	0.00	10.17
72		o-Xylene	50.000	47.965	4.1	94	0.00	10.61
		----------	AvgRF	CCRF	%Dev	----------		
73		Styrene	1.043	0.963	7.7	99	0.00	10.66
74	P	Bromoform	0.263	0.230	12.5	99	0.00	10.71
		----------	Amount	Calc.	%Drift	----------		
75		Isopropylbenzene	50.000	47.347	5.3	92	0.00	10.92
		----------	AvgRF	CCRF	%Dev	----------		
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	112	0.00	12.37
77	S	4-Bromofluorobenzene	0.796	0.778	2.3	108	0.00	11.23
78		cis-1,4-Dichloro-2-butene	0.149	0.149	0.0	129	0.00	11.28
		----------	Amount	Calc.	%Drift	----------		
79		n-Propylbenzene	50.000	48.499	3.0	93	0.00	11.34
		----------	AvgRF	CCRF	%Dev	----------		
80		Bromobenzene	0.792	0.771	2.7	103	0.00	11.34
81	P	1,1,2,2-Tetrachloroethane	0.662	0.626	5.4	99	0.00	11.42
		----------	Amount	Calc.	%Drift	----------		
82		1,3,5-Trimethylbenzene	50.000	47.739	4.5	92	0.00	11.53
83		2-Chlorotoluene	50.000	48.416	3.2	95	0.00	11.52
		----------	AvgRF	CCRF	%Dev	----------		
84		trans-1,4-Dichloro-2-Bute	0.141	0.139	1.4	121	0.00	11.60
85		1,2,3-Trichloropropane	0.218	0.198	9.2	102	0.00	11.57
		----------	Amount	Calc.	%Drift	----------		
86		Cyclohexanone	250.000	248.619	0.6	102	0.00	11.62
87		4-Chlorotoluene	50.000	49.769	0.5	102	0.00	11.68
88		tert-Butylbenzene	50.000	48.060	3.9	94	0.00	11.87
89		1,2,4-Trimethylbenzene	50.000	47.185	5.6	93	0.00	11.93
		----------	AvgRF	CCRF	%Dev	----------		
90		Pentachloroethane	0.601	0.593	1.3	92	0.00	11.91
		----------	Amount	Calc.	%Drift	----------		
91		sec-Butylbenzene	50.000	46.151	7.7	93	0.00	12.05
92		4-Isopropyltoluene	50.000	47.229	5.5	92	0.00	12.18
93		1,3-Dichlorobenzene	50.000	48.152	3.7	98	0.00	12.30
		----------	AvgRF	CCRF	%Dev	----------		
94		1,4-Dichlorobenzene	1.374	1.324	3.6	101	0.00	12.39
		----------	Amount	Calc.	%Drift	----------		
95		n-Butylbenzene	50.000	45.344	9.3	89	0.00	12.63
		----------	AvgRF	CCRF	%Dev	----------		
96		Benzyl Chloride	0.302	0.274	9.3	102	0.00	12.64

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VC4610-CC4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0116026.D
Project: BMSMC, Building 5 Area, Humacao, PR

		Amount	Calc.	%Drift			
97	1,2-Dichlorobenzene	50.000	47.162	5.7	95	0.00	12.83

		AvgRF	CCRF	%Dev			
98	1,2-Dibromo-3-Chloropropa	0.196	0.170	13.3	96	0.00	13.64
99	Hexachlorobutadiene	0.881	0.723	17.9	84	0.00	14.22

		Amount	Calc.	%Drift			
100	1,2,4-Trichlorobenzene	50.000	41.120	17.8	81	0.00	14.26
101	Naphthalene	50.000	45.281	9.4	91	0.00	14.55
102	1,2,3-Trichlorobenzene	50.000	43.290	13.4	85	0.00	14.71

		AvgRF	CCRF	%Dev			
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	107	0.00	4.52
104	Ethanol	0.053	0.086	-62.3#	175	0.02	3.59
105	Acrolein	1.774	1.703	4.0	94	0.00	4.01
106	Tert butyl alcohol	1.344	1.319	1.9	104	0.00	4.60
107	Isobutyl alcohol	0.196	0.203	-3.6	102	0.00	6.65
108	Tert Amyl Alcohol	1.079	1.006	6.8	97	0.00	6.75

		Amount	Calc.	%Drift			
109	1,4-Dioxane	1000.000	1175.274	-17.5	97	0.00	7.84

(#) = Out of Range SPCC's out = 0 CCC's out = 0
C0115811.D 052316APP9-C-Soil.m Wed Jun 01 13:58:01 2016

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VC4610-ECC4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0116033.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\DATA\060116\C0116033.D          Vial: 15
Acq On    :  1 Jun 2016   2:39 pm                     Operator: ericp
Sample    : ECC4602-4                                 Inst    : MSVOA5
Misc      : ms34045,vc4610,5.00,,,5,,                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\2\MET...316APP9-C-Soil.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Mon May 23 14:36:43 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	87	0.00	6.88
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	50.000	62.246	-24.5	99	0.00	2.22
3	P	Chloromethane	50.000	60.847	-21.7	100	0.01	2.41
4	C	Vinyl Chloride	50.000	61.276	-22.6	98	0.01	2.52
5		Bromomethane	50.000	62.062	-24.1	98	0.00	2.87
6		Chloroethane	50.000	63.148	-26.3	100	0.00	3.01
7		Trichlorofluoromethane	50.000	59.851	-19.7	97	0.02	3.17
8		Ethyl Ether	50.000	56.069	-12.1	93	0.00	3.44
9		1,2-Dichlorotrifluoroetha	50.000	59.407	-18.8	95	0.01	3.66
10	C	1,1-Dichloroethene	50.000	61.146	-22.3#	96	0.00	3.66
11		Freon 113	50.000	58.025	-16.0	91	0.01	3.72
12		Carbon Disulfide	50.000	57.117	-14.2	89	0.00	3.71
13		Iodomethane	50.000	54.024	-8.0	87	0.00	3.82
14		Allyl chloride	50.000	53.279	-6.6	86	0.00	4.14
15		Methylene Chloride	50.000	65.588	-31.2	104	0.00	4.26
16		Acetone	250.000	320.328	-28.1	110	0.00	4.30
17		Methyl acetate	250.000	287.290	-14.9	96	0.00	4.41
18		trans-1,2-Dichloroethene	50.000	57.659	-15.3	91	0.00	4.41
19		Hexane	50.000	59.211	-18.4	92	0.00	4.47
20		Methyl Tert Butyl Ether	50.000	53.000	-6.0	89	0.00	4.51
21		Acetonitrile	500.000	618.129	-23.6	104	0.00	4.79
22		Di-isopropyl ether	50.000	54.347	-8.7	89	0.00	4.88
23		Chloroprene	50.000	51.833	-3.7	83	0.00	5.02
24	P	1,1-Dichloroethane	50.000	55.627	-11.3	90	0.00	5.05
25		Acrylonitrile	250.000	278.708	-11.5	95	0.00	5.10
26		ETBE	50.000	52.991	-6.0	89	0.00	5.25
27		Vinyl acetate	250.000	230.847	7.7	79	0.00	5.27
28		cis-1,2-Dichloroethene	50.000	55.300	-10.6	88	0.00	5.59
29		2,2-Dichloropropane	50.000	51.694	-3.4	85	0.00	5.70
30		Bromochloromethane	50.000	51.327	-2.7	84	0.00	5.80
31		Cyclohexane	50.000	54.692	-9.4	86	0.00	5.81
32	C	Chloroform	50.000	55.262	-10.5	93	0.00	5.86
			AvgRF	CCRF	%Dev			
33		Ethyl acetate	0.138	0.137	0.7	93	0.00	5.96
			Amount	Calc.	%Drift			
34		Tetrahydrofuran	50.000	53.002	-6.0	93	0.00	6.04
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VC4610-ECC4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0116033.D
Project: BMSMC, Building 5 Area, Humacao, PR

35	S	Dibromofluoromethane	0.317	0.313	1.3	87	0.00	6.05
		----------	Amount	Calc.	%Drift		----------	
36		Carbon Tetrachloride	50.000	54.683	-9.4	87	0.00	6.01
37		1,1,1-Trichloroethane	50.000	53.217	-6.4	85	0.00	6.09
		----------	AvgRF	CCRF	%Dev		----------	
38		2-Butanone	0.079	0.088	-11.4	106	0.00	6.18
		----------	Amount	Calc.	%Drift		----------	
39		1,1-Dichloropropene	50.000	53.554	-7.1	85	0.00	6.21
40		Propionitrile	500.000	581.305	-16.3	97	0.00	6.50
41		Methacrylonitrile	500.000	543.020	-8.6	95	0.00	6.51
42		Benzene	50.000	55.279	-10.6	90	0.00	6.47
43		TAME	50.000	49.881	0.2	82	0.00	6.55
		----------	AvgRF	CCRF	%Dev		----------	
44	S	1,2-Dichloroethane-d4	0.350	0.338	3.4	86	0.00	6.61
		----------	Amount	Calc.	%Drift		----------	
45		1,2-Dichloroethane	50.000	53.356	-6.7	90	0.00	6.68
		----------	AvgRF	CCRF	%Dev		----------	
46		Trichloroethene	0.339	0.348	-2.7	89	0.00	7.05
		----------	Amount	Calc.	%Drift		----------	
47		Methylcyclohexane	50.000	54.475	-9.0	84	0.00	7.04
		----------	AvgRF	CCRF	%Dev		----------	
48		Dibromomethane	0.200	0.221	-10.5	92	0.00	7.49
49	C	1,2-Dichloropropane	0.263	0.286	-8.7	87	0.00	7.58
50		Bromodichloromethane	0.478	0.496	-3.8	88	0.00	7.64
51		Methyl methacrylate	0.161	0.162	-0.6	90	0.00	7.77
52		2-Chloroethyl vinyl ether	0.102	0.103	-1.0	98	0.00	8.19
53		cis-1,3-Dichloropropene	0.433	0.443	-2.3	92	0.00	8.26
54	I	Chlorobenzene-d5	1.000	1.000	0.0	96	0.00	10.00
55	S	Toluene-d8	1.427	1.378	3.4	89	0.00	8.45
		----------	Amount	Calc.	%Drift		----------	
56	C	Toluene	50.000	52.144	-4.3	89	0.00	8.50
		----------	AvgRF	CCRF	%Dev		----------	
57		2-Nitropropane	0.095	0.086	9.5	87	0.00	8.74
		----------	Amount	Calc.	%Drift		----------	
58		4-Methyl-2-pentanone	250.000	259.828	-3.9	91	0.00	8.86
		----------	AvgRF	CCRF	%Dev		----------	
59		trans-1,3-Dichloropropene	0.407	0.404	0.7	99	0.00	8.91
60		Tetrachloroethene	0.541	0.492	9.1	82	0.00	8.89
61		Ethyl methacrylate	0.358	0.313	12.6	81	0.00	9.04
62		1,1,2-Trichloroethane	0.232	0.230	0.9	93	0.00	9.07
63		Dibromochloromethane	0.447	0.433	3.1	88	0.00	9.26
64		1,3-Dichloropropane	0.454	0.452	0.4	93	0.00	9.35
65		1,2-Dibromoethane	0.309	0.306	1.0	98	0.00	9.51
66		2-hexanone	0.150	0.145	3.3	97	0.00	9.69
67		1-Chlorohexane	0.541	0.507	6.3	82	0.00	9.97
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VC4610-ECC4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0116033.D
Project: BMSMC, Building 5 Area, Humacao, PR

68	C	Ethylbenzene	50.000	52.709	-5.4	89	0.00	10.03
		----------	AvgRF	CCRF	%Dev	----------		
69	P	Chlorobenzene	0.947	0.958	-1.2	92	0.00	10.02
70		1,1,1,2-Tetrachloroethane	0.538	0.523	2.8	82	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
71		m,p-Xylene	100.000	98.503	1.5	89	0.00	10.17
72		o-Xylene	50.000	52.480	-5.0	86	0.00	10.61
		----------	AvgRF	CCRF	%Dev	----------		
73		Styrene	1.043	0.997	4.4	88	0.00	10.66
74	P	Bromoform	0.263	0.238	9.5	87	0.00	10.71
		----------	Amount	Calc.	%Drift	----------		
75		Isopropylbenzene	50.000	51.692	-3.4	85	0.00	10.92
		----------	AvgRF	CCRF	%Dev	----------		
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	94	0.00	12.37
77	S	4-Bromofluorobenzene	0.796	0.784	1.5	91	0.00	11.23
78		cis-1,4-Dichloro-2-butene	0.149	0.137	8.1	99	0.00	11.28
		----------	Amount	Calc.	%Drift	----------		
79		n-Propylbenzene	50.000	53.346	-6.7	85	0.00	11.34
		----------	AvgRF	CCRF	%Dev	----------		
80		Bromobenzene	0.792	0.800	-1.0	89	0.00	11.34
81	P	1,1,2,2-Tetrachloroethane	0.662	0.674	-1.8	89	0.00	11.42
		----------	Amount	Calc.	%Drift	----------		
82		1,3,5-Trimethylbenzene	50.000	52.436	-4.9	84	0.00	11.53
83		2-Chlorotoluene	50.000	52.885	-5.8	86	0.00	11.51
		----------	AvgRF	CCRF	%Dev	----------		
84		trans-1,4-Dichloro-2-Bute	0.141	0.131	7.1	95	0.00	11.60
85		1,2,3-Trichloropropane	0.218	0.211	3.2	91	0.00	11.57
		----------	Amount	Calc.	%Drift	----------		
86		Cyclohexanone	250.000	254.901	-2.0	87	0.00	11.62
87		4-Chlorotoluene	50.000	52.408	-4.8	89	0.00	11.68
88		tert-Butylbenzene	50.000	53.511	-7.0	87	0.00	11.86
89		1,2,4-Trimethylbenzene	50.000	51.799	-3.6	85	0.00	11.93
		----------	AvgRF	CCRF	%Dev	----------		
90		Pentachloroethane	0.601	0.618	-2.8	80	0.00	11.91
		----------	Amount	Calc.	%Drift	----------		
91		sec-Butylbenzene	50.000	51.480	-3.0	86	0.00	12.04
92		4-Isopropyltoluene	50.000	51.231	-2.5	83	0.00	12.18
93		1,3-Dichlorobenzene	50.000	50.271	-0.5	86	0.00	12.30
		----------	AvgRF	CCRF	%Dev	----------		
94		1,4-Dichlorobenzene	1.374	1.365	0.7	87	0.00	12.39
		----------	Amount	Calc.	%Drift	----------		
95		n-Butylbenzene	50.000	49.018	2.0	80	0.00	12.63
		----------	AvgRF	CCRF	%Dev	----------		
96		Benzyl Chloride	0.302	0.271	10.3	84	0.00	12.64

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VC4610-ECC4602
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** C0116033.D
Project: BMSMC, Building 5 Area, Humacao, PR

		Amount	Calc.	%Drift			
97	1,2-Dichlorobenzene	50.000	50.716	-1.4	85	0.00	12.83

		AvgRF	CCRF	%Dev			
98	1,2-Dibromo-3-Chloropropa	0.196	0.180	8.2	85	0.00	13.64
99	Hexachlorobutadiene	0.881	0.799	9.3	77	0.00	14.22

		Amount	Calc.	%Drift			
100	1,2,4-Trichlorobenzene	50.000	43.420	13.2	71	0.00	14.26
101	Naphthalene	50.000	48.416	3.2	81	0.00	14.55
102	1,2,3-Trichlorobenzene	50.000	46.944	6.1	76	0.00	14.71

		AvgRF	CCRF	%Dev			
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	102	0.00	4.52
104	Ethanol	0.053	0.077	-45.3	147	0.02	3.60
105	Acrolein	1.774	1.732	2.4	90	0.00	4.01
106	Tert butyl alcohol	1.344	1.408	-4.8	105	0.00	4.60
107	Isobutyl alcohol	0.196	0.213	-8.7	102	0.00	6.65
108	Tert Amyl Alcohol	1.079	1.015	5.9	93	0.00	6.75

		Amount	Calc.	%Drift			
109	1,4-Dioxane	1000.000	1189.451	-18.9	93	0.00	7.84

(#) = Out of Range SPCC's out = 0 CCC's out = 1
C0115811.D 052316APP9-C-Soil.m Wed Jun 01 14:58:20 2016

6.7.4

6

Initial Calibration Summary

Job Number: FA34367 **Sample:** VJ5312-ICC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976757.D
Project: BMSMC, Building 5 Area, Humacao, PR

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                         Response Factor Report  MSVOA6

Method        : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title         : SW-846 Method 5030B/8260B & EPA 624
Last Update   : Wed May 25 09:12:25 2016
Response via  : Initial Calibration

Calibration Files
1   =J0976753.D  2   =J0976754.D  3   =J0976755.D  4   =J0976756.D
5   =J0976757.D  6   =J0976758.D  7   =J0976759.D

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

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.286 0.418 0.324 0.302 0.322 0.347 0.342 0.334  12.82
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
             Response Ratio = 0.00000 + 0.31843 *A + 0.01308 *A^2

3)P Chloromethane     0.515 0.469 0.380 0.344 0.366 0.371 0.365 0.402  15.99
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
             Response Ratio = 0.00000 + 0.36664 *A + -0.00015 *A^2

4)C Vinyl Chloride    0.436 0.495 0.393 0.361 0.362 0.364 0.351 0.395  13.48
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
             Response Ratio = 0.00000 + 0.37861 *A + -0.01353 *A^2

5)  1,3-Butadiene     0.199 0.179 0.180 0.162 0.133 0.162 0.152 0.167  12.92
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9939
             Response Ratio = 0.00000 + 0.15347 *A + -0.00004 *A^2

6)  Bromomethane      0.524 0.369 0.277 0.219 0.207 0.180 0.163 0.277  46.55
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
             Response Ratio = 0.00000 + 0.23893 *A + -0.03859 *A^2

7)  Chloroethane      0.242 0.261 0.201 0.169 0.154 0.117       0.191  28.71
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
             Response Ratio = 0.00000 + 0.20555 *A + -0.06380 *A^2

8)  Trichlorofluorome 0.505 0.602 0.488 0.463 0.471 0.486 0.461 0.496   9.87
9)  Ethyl Ether       0.271 0.196 0.198 0.214 0.221 0.220 0.215 0.219  11.37
10)  1,2-Dichlorotrifl 0.392 0.325 0.322 0.336 0.335 0.351 0.337 0.343   6.93
11)C 1,1-Dichloroethen 0.498 0.397 0.406 0.419 0.413 0.442 0.421 0.428   7.94
12)  Freon 113        0.325 0.284 0.287 0.289 0.295 0.311 0.301 0.299   4.99
13)  Carbon Disulfide 1.247 0.897 0.902 0.944 0.964 1.029 0.980 0.995  12.09
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
             Response Ratio = 0.00000 + 0.99016 *A + 0.00017 *A^2

14)  Iodomethane      0.600 0.440 0.435 0.460 0.479 0.499 0.487 0.486  11.41
15)  Allyl chloride   0.346 0.353 0.364 0.382 0.349 0.393 0.383 0.367   5.18
16)  Methylene Chlorid 0.726 0.409 0.377 0.374 0.372 0.361 0.341 0.423  31.96
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
             Response Ratio = 0.00000 + 0.39484 *A + -0.02650 *A^2

17)  Acetone          0.035 0.020 0.017 0.017 0.016 0.017 0.016 0.020  33.66
           ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
             Response Ratio = 0.00000 + 0.01745 *A + -0.00012 *A^2

18)  Methyl acetate   0.028 0.027 0.027 0.030 0.032 0.032 0.032 0.030   7.51
19)  trans-1,2-Dichlor 0.483 0.361 0.352 0.385 0.375 0.390 0.378 0.389  11.22
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            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.38576 *A + -0.00271 *A^2

20)  Hexane            0.274 0.242 0.251 0.257 0.254 0.262 0.250 0.256   4.06
21)  Methyl Tert Butyl 0.825 0.670 0.674 0.744 0.776 0.776 0.760 0.746   7.57
22)  Acetonitrile      0.023 0.012 0.012 0.011 0.011 0.011 0.011 0.013  35.10
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.01153 *A + -0.00005 *A^2

23)  Di-isopropyl ethe 0.921 0.738 0.764 0.837 0.872 0.870 0.849 0.836   7.65
24)  Chloroprene       0.362 0.361 0.368 0.416 0.359 0.453 0.439 0.394  10.37
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9953
              Response Ratio = 0.00000 + 0.38136 *A + 0.03218 *A^2

25)P 1,1-Dichloroethan 0.668 0.486 0.482 0.506 0.506 0.511 0.496 0.522  12.51
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.51749 *A + -0.00992 *A^2

26)  Acrylonitrile     0.047 0.074 0.066 0.068 0.076 0.066 0.067 0.066  14.54
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9973
              Response Ratio = 0.00000 + 0.07316 *A + -0.00071 *A^2

27)  ETBE              0.866 0.761 0.799 0.868 0.904 0.901 0.872 0.853   6.24
28)  Vinyl acetate     0.408 0.457 0.424 0.461 0.482 0.417 0.393 0.435   7.48
29)  cis-1,2-Dichloroe 0.393 0.295 0.297 0.322 0.331 0.339 0.333 0.330   9.88
30)  2,2-Dichloropropa 0.493 0.399 0.384 0.404 0.416 0.429 0.421 0.421   8.40
31)  Bromochloromethan 0.162 0.136 0.134 0.148 0.153 0.153 0.151 0.148   6.66
32)  Cyclohexane       0.434 0.420 0.445 0.494 0.495 0.532 0.506 0.475   8.82
33)C Chloroform        0.731 0.516 0.509 0.552 0.546 0.553 0.537 0.563  13.51
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.55983 *A + -0.01041 *A^2

34)  Ethyl acetate     0.148 0.164 0.147 0.163 0.170 0.152 0.149 0.156   5.91
35)  Tetrahydrofuran   0.071 0.047 0.046 0.045 0.048 0.045 0.045 0.050  19.34
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.04666 *A + -0.00069 *A^2

36)S Dibromofluorometh 0.255 0.254 0.250 0.251 0.254 0.256 0.252 0.253   0.85
37)  Carbon Tetrachlor 0.457 0.394 0.392 0.411 0.414 0.442 0.420 0.418   5.66
38)  1,1,1-Trichloroet 0.585 0.450 0.452 0.487 0.489 0.506 0.495 0.495   9.12
39)  2-Butanone        0.082 0.065 0.064 0.066 0.067 0.067 0.066 0.068   9.15
40)  1,1-Dichloroprope 0.407 0.338 0.358 0.390 0.387 0.407 0.391 0.383   6.63
41)  tert-Butyl Format 0.159 0.142 0.192 0.182 0.194 0.200 0.180 0.179  11.66
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
              Response Ratio = 0.00000 + 0.20694 *A + -0.00119 *A^2

42)  Propionitrile     0.026 0.026 0.025 0.026 0.026 0.024 0.024 0.025   4.29
43)  Methacrylonitrile 0.134 0.125 0.111 0.108 0.100 0.094 0.089 0.109  15.16
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.10943 *A + -0.00106 *A^2

44)  Benzene           1.437 1.102 1.129 1.208 1.193 1.203 1.135 1.201   9.32
45)  TAME              0.796 0.706 0.710 0.782 0.822 0.828 0.806 0.779   6.50
46)S 1,2-Dichloroethan 0.300 0.299 0.292 0.282 0.278 0.278 0.269 0.285   4.11
47)  1,2-Dichloroethan 0.542 0.370 0.356 0.369 0.365 0.355 0.346 0.386  17.93
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.37561 *A + -0.01501 *A^2

48)  Trichloroethene   0.384 0.270 0.281 0.310 0.304 0.312 0.298 0.308  11.87
49)  Methylcyclohexane 0.489 0.474 0.502 0.539 0.550 0.590 0.559 0.529   7.89
```

Initial Calibration Summary

Job Number: FA34367 **Sample:** VJ5312-ICC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976757.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
50)  Dibromomethane    0.177 0.150 0.152 0.158 0.162 0.163 0.158 0.160   5.64
51)C 1,2-Dichloropropa 0.357 0.264 0.263 0.290 0.299 0.294 0.286 0.293  10.65
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.30101 *A + -0.00676 *A^2

52)  Bromodichlorometh 0.425 0.347 0.351 0.386 0.387 0.386 0.379 0.380   6.79
53)  Methyl methacryla 0.097 0.118 0.127 0.149 0.146 0.148 0.148 0.133  15.07
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.14528 *A + 0.00139 *A^2

54)  2-Chloroethyl vin       0.107 0.141 0.141 0.145 0.147 0.142 0.137  11.00
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.14783 *A + -0.00052 *A^2

55)  cis-1,3-Dichlorop 0.384 0.371 0.394 0.451 0.469 0.467 0.454 0.427   9.89

56) I   Chlorobenzene-d5      ----------------ISTD--------------------
57)S Toluene-d8        1.313 1.289 1.275 1.256 1.260 1.234 1.225 1.264   2.43
58)C Toluene           2.395 1.499 1.525 1.572 1.553 1.511 1.426 1.640  20.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 1.64254 *A + -0.10588 *A^2

59)  2-Nitropropane    0.055 0.047 0.047 0.053 0.054 0.052 0.052 0.051   6.73
60)  4-Methyl-2-pentan 0.191 0.172 0.202 0.208 0.200 0.198 0.190 0.194   5.92
61)  trans-1,3-Dichlor 0.438 0.393 0.406 0.460 0.478 0.468 0.464 0.444   7.37
62)  Tetrachloroethene 0.460 0.362 0.357 0.391 0.405 0.431 0.397 0.401   9.08
63)  Ethyl methacrylat 0.189 0.274 0.305 0.359 0.357 0.362 0.364 0.316  20.86
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.35001 *A + 0.00746 *A^2

64)  1,1,2-Trichloroet 0.267 0.236 0.238 0.252 0.257 0.245 0.241 0.248   4.52
65)  Dibromochlorometh 0.353 0.281 0.285 0.325 0.346 0.341 0.337 0.324   9.01
66)  1,3-Dichloropropa 0.605 0.459 0.465 0.501 0.512 0.495 0.485 0.503   9.69
67)  1,2-Dibromoethane 0.316 0.246 0.251 0.277 0.290 0.284 0.283 0.278   8.53
68)  2-hexanone        0.107 0.118 0.135 0.144 0.139 0.140 0.136 0.131  10.38
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.14403 *A + -0.00078 *A^2

69)  1-Chlorohexane    0.401 0.377 0.434 0.497 0.501 0.528 0.508 0.464  12.73
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.50752 *A + 0.00282 *A^2

70)C Ethylbenzene      2.367 1.701 1.733 1.814 1.810 1.727 1.582 1.819  13.94
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 1.95202 *A + -0.18049 *A^2

71)P Chlorobenzene     1.525 0.973 0.991 1.052 1.067 1.041 0.989 1.091  17.82
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 1.10733 *A + -0.05679 *A^2

72)  1,1,1,2-Tetrachlo 0.395 0.311 0.314 0.354 0.361 0.356 0.351 0.349   8.22
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.35347 *A

73)  m,p-Xylene        1.570 1.237 1.337 1.380 1.360 1.245 1.087 1.317  11.39
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 1.52634 *A + -0.10809 *A^2

74)  o-Xylene          1.357 1.156 1.261 1.412 1.437 1.412 1.329 1.338   7.51
75)  Styrene           0.896 0.817 0.940 1.097 1.142 1.146 1.098 1.019  13.00
```

Initial Calibration Summary

Job Number: FA34367 **Sample:** VJ5312-ICC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976757.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 1.15065 *A + -0.02213 *A^2

 76)P Bromoform         0.192 0.173 0.173 0.199 0.217 0.222 0.220 0.199  10.72
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 0.20798 *A + 0.00700 *A^2

 77)  Isopropylbenzene  1.480 1.346 1.524 1.700 1.716 1.684 1.554 1.572   8.68

 78) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
 79)S 4-Bromofluorobenz 0.940 0.941 0.939 0.913 0.900 0.916 0.903 0.922   1.96
 80)  cis-1,4-Dichloro- 0.137 0.107 0.123 0.148 0.144 0.154 0.153 0.138  12.45
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 0.14184 *A + 0.00619 *A^2

 81)  n-Propylbenzene   3.997 3.352 3.494 3.718 3.534 3.512 3.121 3.533   7.78
 82)  Bromobenzene      1.018 0.783 0.776 0.832 0.818 0.842 0.814 0.840   9.74
 83)P 1,1,2,2-Tetrachlo 0.685 0.663 0.630 0.643 0.631 0.626 0.611 0.641   3.91
 84)  1,3,5-Trimethylbe 2.601 2.330 2.509 2.776 2.714 2.724 2.498 2.593   6.11
 85)  2-Chlorotoluene   3.076 2.484 2.499 2.591 2.515 2.527 2.310 2.572   9.27
 86)  trans-1,4-Dichlor 0.081 0.092 0.114 0.135 0.133 0.144 0.140 0.120  20.76
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
                Response Ratio = 0.00000 + 0.13448 *A + 0.00337 *A^2

 87)  1,2,3-Trichloropr 0.153 0.173 0.153 0.173 0.169 0.165 0.165 0.164   5.05
 88)  Cyclohexanone     0.019 0.018 0.016 0.018 0.019 0.019 0.017 0.018   6.21
 89)  4-Chlorotoluene   2.658 2.073 2.173 2.399 2.338 2.353 2.203 2.314   8.24
 90)  a-Methyl Styrene  0.980 1.139 1.299 1.503 1.422 1.549 1.493 1.341  15.88
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
                Response Ratio = 0.00000 + 1.47384 *A + 0.01653 *A^2

 91)  tert-Butylbenzene 1.594 1.390 1.467 1.545 1.492 1.537 1.461 1.498   4.48
 92)  1,2,4-Trimethylbe 2.559 2.418 2.540 2.781 2.709 2.685 2.478 2.596   5.10
 93)  Pentachloroethane 0.525 0.497 0.491 0.531 0.475 0.496 0.524 0.506   4.21
 94)  sec-Butylbenzene  3.100 2.884 3.138 3.367 3.222 3.229 2.932 3.125   5.47
 95)  4-Isopropyltoluen 3.037 2.411 2.618 2.859 2.794 2.812 2.556 2.727   7.72
 96)  1,3-Dichlorobenze 1.664 1.361 1.343 1.473 1.453 1.462 1.409 1.452   7.31
 97)  1,4-Dichlorobenze 2.104 1.456 1.438 1.513 1.493 1.497 1.433 1.562  15.44
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 1.55581 *A + -0.05833 *A^2

 98)  n-Butylbenzene    1.344 1.274 1.432 1.601 1.565 1.632 1.552 1.486   9.24
 99)  Benzyl Chloride   0.177 0.161 0.173 0.214 0.231 0.243 0.248 0.207  17.40
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 0.21388 *A + 0.01759 *A^2

100)  1,2-Dichlorobenze 1.618 1.245 1.245 1.370 1.352 1.352 1.303 1.355   9.36
101)  1,2-Dibromo-3-Chl 0.069 0.075 0.070 0.085 0.090 0.090 0.088 0.081  11.59
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 0.08880 *A + -0.00007 *A^2

102)  Hexachlorobutadie 0.860 0.550 0.536 0.597 0.590 0.640 0.625 0.628  17.27
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 0.59628 *A + 0.01716 *A^2

103)  1,2,4-Trichlorobe 1.010 0.787 0.771 0.890 0.949 0.966 0.935 0.901  10.10
104)  Naphthalene       1.112 0.906 0.994 1.271 1.379 1.426 1.400 1.213  17.28
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
                Response Ratio = 0.00000 + 1.32431 *A + 0.04427 *A^2
```

Initial Calibration Summary

Job Number: FA34367 **Sample:** VJ5312-ICC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976757.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
105)  1,2,3-Trichlorobe 0.909 0.662 0.672 0.757 0.786 0.801 0.795 0.769  10.95
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.76964 *A + 0.01455 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.157 0.150 0.143 0.136 0.133 0.123 0.140   8.61
108)  acrolein          1.897 2.079 2.110 2.277 2.152 2.196 2.022 2.105   5.84
109)  Tert Butyl Alcoho 1.764 1.321 1.262 1.235 1.244 1.229 1.134 1.313  15.74
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
               Response Ratio = 0.00000 + 1.33569 *A + -0.04845 *A^2

110)  tert Amyl alcohol 0.902 0.887 0.894 0.940 0.962 0.953 0.918 0.922   3.23
111)  Isobutyl alcohol  0.375 0.437 0.469 0.441 0.394 0.380 0.359 0.408  10.05
112)  1,4-Dioxane       0.099 0.111 0.141 0.140 0.147 0.141 0.137 0.131  13.83
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.14844 *A + -0.00142 *A^2

113)  3,3-Dimethyl-1-bu 0.715 0.641 0.994 1.019 1.055 1.146 1.001 0.939  19.85
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9948
               Response Ratio = 0.00000 + 1.15610 *A + -0.00661 *A^2

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

          MSJ052316a.M        Wed May 25 09:38:21 2016
```

Initial Calibration Verification

Job Number: FA34367 **Sample:** VJ5312-ICV5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976761.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\052416\J0976761.D          Vial: 9
Acq On    : 24 May 2016   1:36 pm                     Operator: DARSHNAP
Sample    : icv5312-5                                 Inst    : MSVOA6
Misc      : MS33959,VJ5312,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed May 25 09:12:25 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	104	0.00	7.76
		----------	Amount	Calc.	%Drift	----------		
2		Dichlorodifluoromethane	40.000	38.980	2.6	103	0.00	2.69
3	P	Chloromethane	40.000	37.364	6.6	97	0.00	2.91
4	C	Vinyl Chloride	40.000	37.447	6.4	99	0.00	3.05
5		1,3-Butadiene	40.000	2.753	93.1#	8	-0.01	3.03
6		Bromomethane	40.000	37.833	5.4	99	0.00	3.46
7		Chloroethane	40.000	36.380	9.0	98	0.00	3.62
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane	0.496	0.456	8.1	100	0.00	3.84
9		Ethyl Ether	0.219	0.206	5.9	97	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.343	0.346	-0.9	107	0.00	4.36
11	C	1,1-Dichloroethene	0.428	0.433	-1.2	109	0.00	4.40
12		Freon 113	0.299	0.261	12.7	92	0.00	4.47
		----------	Amount	Calc.	%Drift	----------		
13		Carbon Disulfide	40.000	35.809	10.5	95	0.00	4.47
		----------	AvgRF	CCRF	%Dev	----------		
14		Iodomethane	0.486	0.447	8.0	97	0.00	4.59
15		Allyl chloride	0.367	0.326	11.2	97	0.00	4.92
		----------	Amount	Calc.	%Drift	----------		
16		Methylene Chloride	40.000	40.588	-1.5	105	0.00	5.04
17		Acetone	200.000	189.081	5.5	101	0.00	5.07
		----------	AvgRF	CCRF	%Dev	----------		
18		Methyl acetate	0.030	0.032	-6.7	104	0.00	5.19
		----------	Amount	Calc.	%Drift	----------		
19		trans-1,2-Dichloroethene	40.000	43.856	-9.6	116	0.00	5.23
		----------	AvgRF	CCRF	%Dev	----------		
20		Hexane	0.256	0.234	8.6	96	0.00	5.30
21		Methyl Tert Butyl Ether	0.746	0.741	0.7	99	0.00	5.33
		----------	Amount	Calc.	%Drift	----------		
22		Acetonitrile	400.000	350.877	12.3	94	0.00	5.59
		----------	AvgRF	CCRF	%Dev	----------		

Initial Calibration Verification

Job Number: FA34367 **Sample:** VJ5312-ICV5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976761.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	0.836	0.821	1.8	98	0.00	5.71
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	36.089	9.8	105	0.00	5.87
25	P	1,1-Dichloroethane	40.000	41.714	-4.3	109	0.00	5.89
26		Acrylonitrile	200.000	202.337	-1.2	97	0.00	5.92
		----------	AvgRF	CCRF	%Dev		----------	
27		ETBE	0.853	0.830	2.7	95	0.00	6.11
28		Vinyl acetate	0.435	0.389	10.6	84	0.00	6.11
29		cis-1,2-Dichloroethene	0.330	0.322	2.4	101	0.00	6.47
30		2,2-Dichloropropane	0.421	0.445	-5.7	111	0.00	6.61
31		Bromochloromethane	0.148	0.143	3.4	97	0.00	6.69
32		Cyclohexane	0.475	0.470	1.1	98	0.00	6.73
		----------	Amount	Calc.	%Drift		----------	
33	C	Chloroform	40.000	39.786	0.5	104	0.00	6.74
		----------	AvgRF	CCRF	%Dev		----------	
34		Ethyl acetate	0.156	0.155	0.6	95	0.00	6.81
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	39.242	1.9	99	0.00	6.92
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.253	0.252	0.4	103	0.00	6.93
37		Carbon Tetrachloride	0.418	0.427	-2.2	107	0.00	6.93
38		1,1,1-Trichloroethane	0.495	0.469	5.3	100	0.00	7.00
39		2-Butanone	0.068	0.069	-1.5	107	0.00	7.02
40		1,1-Dichloropropene	0.383	0.379	1.0	102	0.00	7.10
		----------	Amount	Calc.	%Drift		----------	
41		tert-Butyl Formate	400.000	399.202	0.2	105	0.00	7.18
		----------	AvgRF	CCRF	%Dev		----------	
42		Propionitrile	0.025	0.025	0.0	100	0.00	7.33
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	397.894	0.5	105	0.00	7.36
		----------	AvgRF	CCRF	%Dev		----------	
44		Benzene	1.201	1.182	1.6	103	0.00	7.36
45		TAME	0.779	0.760	2.4	96	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.285	0.275	3.5	103	0.00	7.48
		----------	Amount	Calc.	%Drift		----------	
47		1,2-Dichloroethane	40.000	41.530	-3.8	107	0.00	7.55
		----------	AvgRF	CCRF	%Dev		----------	
48		Trichloroethene	0.308	0.313	-1.6	107	0.00	7.94
49		Methylcyclohexane	0.529	0.538	-1.7	101	0.00	7.96
50		Dibromomethane	0.160	0.170	-6.3	109	0.00	8.36
		----------	Amount	Calc.	%Drift		----------	
51	C	1,2-Dichloropropane	40.000	40.048	-0.1	103	0.00	8.45
		----------	AvgRF	CCRF	%Dev		----------	
52		Bromodichloromethane	0.380	0.398	-4.7	107	0.00	8.49
		----------	Amount	Calc.	%Drift		----------	

Initial Calibration Verification

Job Number: FA34367 **Sample:** VJ5312-ICV5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976761.D
Project: BMSMC, Building 5 Area, Humacao, PR

53		Methyl methacrylate	40.000	42.278	-5.7	110	0.00	8.59
54		2-Chloroethyl vinyl ether	200.000	207.434	-3.7	108	0.00	9.01
		----------	AvgRF	CCRF	%Dev	----------		
55		cis-1,3-Dichloropropene	0.427	0.485	-13.6	107	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00	10.85
57	S	Toluene-d8	1.264	1.246	1.4	103	0.00	9.30
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	40.156	-0.4	105	0.00	9.36
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.051	0.052	-2.0	100	0.00	9.56
60		4-Methyl-2-pentanone	0.194	0.203	-4.6	106	0.00	9.67
61		trans-1,3-Dichloropropene	0.444	0.525	-18.2	115	0.00	9.73
62		Tetrachloroethene	0.401	0.396	1.2	102	0.00	9.76
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	35.895	10.3	93	0.00	9.84
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.248	0.262	-5.6	106	0.00	9.90
65		Dibromochloromethane	0.324	0.353	-9.0	107	0.00	10.10
66		1,3-Dichloropropane	0.503	0.498	1.0	101	0.00	10.18
67		1,2-Dibromoethane	0.278	0.294	-5.8	106	0.00	10.36
		----------	Amount	Calc.	%Drift	----------		
68		2-hexanone	200.000	200.510	-0.3	106	0.00	10.49
69		1-Chlorohexane	40.000	37.817	5.5	101	0.00	10.80
70	C	Ethylbenzene	40.000	39.661	0.8	104	0.00	10.86
71	P	Chlorobenzene	40.000	40.372	-0.9	105	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	42.596	-6.5	109	0.00	10.91
73		m,p-Xylene	80.000	82.307	-2.9	107	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.338	1.464	-9.4	106	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	40.549	-1.4	105	0.00	11.48
76	P	Bromoform	40.000	42.685	-6.7	110	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.572	1.760	-12.0	107	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	13.20
79	S	4-Bromofluorobenzene	0.922	0.921	0.1	104	0.00	12.05
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	39.625	0.9	103	0.00	12.09
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.533	3.758	-6.4	108	0.00	12.16
82		Bromobenzene	0.840	0.855	-1.8	106	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.641	0.659	-2.8	106	0.00	12.22
84		1,3,5-Trimethylbenzene	2.593	2.742	-5.7	102	0.00	12.34
85		2-Chlorotoluene	2.572	2.626	-2.1	106	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	42.339	-5.8	110	0.00	12.40

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.164	0.177	-7.9	106	0.00	12.38
88	Cyclohexanone	0.018	0.020	-11.1	105	0.00	12.45
89	4-Chlorotoluene	2.314	2.456	-6.1	106	0.00	12.52
		Amount	Calc.	%Drift			
90	a-Methyl Styrene	40.000	0.780	98.0#	2	0.15	12.75
		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.498	1.513	-1.0	103	0.00	12.68
92	1,2,4-Trimethylbenzene	2.596	2.771	-6.7	104	0.00	12.75
93	Pentachloroethane	0.506	0.525	-3.8	112	0.00	12.74
94	sec-Butylbenzene	3.125	3.384	-8.3	106	0.00	12.87
95	4-Isopropyltoluene	2.727	2.890	-6.0	105	0.00	13.00
96	1,3-Dichlorobenzene	1.452	1.521	-4.8	106	0.00	13.13
		Amount	Calc.	%Drift			
97	1,4-Dichlorobenzene	40.000	40.859	-2.1	104	0.00	13.22
		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.486	1.596	-7.4	103	0.00	13.43
		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	43.263	-8.2	108	0.00	13.44
		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.355	1.398	-3.2	105	0.00	13.64
		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	40.459	-1.1	101	0.00	14.38
102	Hexachlorobutadiene	40.000	39.335	1.7	103	0.00	14.93
		AvgRF	CCRF	%Dev			
103	1,2,4-Trichlorobenzene	0.901	0.950	-5.4	101	0.00	14.97
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	44.518	-11.3	111	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	40.210	-0.5	101	0.00	15.43
		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	101	0.00	5.30
107	Ethanol	0.140	0.135	3.6	100	0.00	4.29
108	acrolein	2.105	2.326	-10.5	110	0.00	4.76
		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	375.021	6.2	97	-0.01	5.37
		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	0.922	0.990	-7.4	104	0.00	7.57
111	Isobutyl alcohol	0.408	0.385	5.6	99	0.00	7.46
		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	808.597	-1.1	100	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	1893.924	5.3	101	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Initial Calibration Verification

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5312-ICV5312
Lab FileID: J0976761.D

J0976757.D MSJ052316a.M Wed May 25 09:38:06 2016

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5323-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976942.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\060116\J0976942.D          Vial: 2
Acq On    :  1 Jun 2016   9:42 am                    Operator: darshnap
Sample    : cc5312-5                                 Inst    : MSVOA6
Misc      : MS34031,VJ5323,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jun 01 09:17:29 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	116	0.00	7.76
		----------	Amount	Calc.	%Drift	----------		
2		Dichlorodifluoromethane	40.000	37.662	5.8	111	0.00	2.70
3	P	Chloromethane	40.000	36.425	8.9	106	0.01	2.91
4	C	Vinyl Chloride	40.000	32.946	17.6	98	0.01	3.06
5		1,3-Butadiene	40.000	32.052	19.9	107	0.00	3.05
6		Bromomethane	40.000	33.241	16.9	99	0.00	3.47
7		Chloroethane	40.000	33.714	15.7	103	0.00	3.63
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane	0.496	0.416	16.1	102	0.01	3.85
9		Ethyl Ether	0.219	0.202	7.8	106	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.343	0.288	16.0	100	0.00	4.36
11	C	1,1-Dichloroethene	0.428	0.369	13.8	103	0.00	4.40
12		Freon 113	0.299	0.253	15.4	99	0.01	4.48
		----------	Amount	Calc.	%Drift	----------		
13		Carbon Disulfide	40.000	33.547	16.1	100	0.00	4.48
		----------	AvgRF	CCRF	%Dev	----------		
14		Iodomethane	0.486	0.429	11.7	104	0.00	4.59
15		Allyl chloride	0.367	0.336	8.4	112	0.00	4.92
		----------	Amount	Calc.	%Drift	----------		
16		Methylene Chloride	40.000	36.379	9.1	106	0.00	5.05
17		Acetone	200.000	183.673	8.2	110	0.00	5.07
		----------	AvgRF	CCRF	%Dev	----------		
18		Methyl acetate	0.030	0.030	0.0	110	0.00	5.19
		----------	Amount	Calc.	%Drift	----------		
19		trans-1,2-Dichloroethene	40.000	35.271	11.8	104	0.00	5.23
		----------	AvgRF	CCRF	%Dev	----------		
20		Hexane	0.256	0.229	10.5	104	0.00	5.30
21		Methyl Tert Butyl Ether	0.746	0.709	5.0	106	0.00	5.33
		----------	Amount	Calc.	%Drift	----------		
22		Acetonitrile	400.000	348.494	12.9	104	0.00	5.58
		----------	AvgRF	CCRF	%Dev	----------		

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5323-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976942.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	0.836	0.785	6.1	104	0.00	5.72
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	34.413	14.0	112	0.00	5.88
25	P	1,1-Dichloroethane	40.000	35.242	11.9	103	0.00	5.89
26		Acrylonitrile	200.000	185.526	7.2	100	0.00	5.92
		----------	AvgRF	CCRF	%Dev		----------	
27		ETBE	0.853	0.812	4.8	104	0.00	6.11
28		Vinyl acetate	0.435	0.400	8.0	96	0.00	6.11
29		cis-1,2-Dichloroethene	0.330	0.307	7.0	107	0.00	6.48
30		2,2-Dichloropropane	0.421	0.376	10.7	105	0.00	6.61
31		Bromochloromethane	0.148	0.142	4.1	108	0.00	6.69
32		Cyclohexane	0.475	0.432	9.1	101	0.00	6.73
		----------	Amount	Calc.	%Drift		----------	
33	C	Chloroform	40.000	35.607	11.0	104	0.00	6.74
		----------	AvgRF	CCRF	%Dev		----------	
34		Ethyl acetate	0.156	0.143	8.3	98	0.00	6.80
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	34.085	14.8	96	0.00	6.91
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.253	0.255	-0.8	116	0.00	6.93
37		Carbon Tetrachloride	0.418	0.365	12.7	102	0.00	6.93
38		1,1,1-Trichloroethane	0.495	0.425	14.1	101	0.00	7.00
39		2-Butanone	0.068	0.061	10.3	105	0.00	7.02
40		1,1-Dichloropropene	0.383	0.343	10.4	103	0.00	7.10
		----------	Amount	Calc.	%Drift		----------	
41		tert-Butyl Formate	400.000	353.654	11.6	105	0.00	7.18
		----------	AvgRF	CCRF	%Dev		----------	
42		Propionitrile	0.025	0.022	12.0	99	0.00	7.33
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	360.812	9.8	107	0.00	7.36
		----------	AvgRF	CCRF	%Dev		----------	
44		Benzene	1.201	1.064	11.4	103	0.00	7.35
45		TAME	0.779	0.747	4.1	105	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.285	0.274	3.9	114	0.00	7.48
		----------	Amount	Calc.	%Drift		----------	
47		1,2-Dichloroethane	40.000	36.698	8.3	106	0.00	7.54
		----------	AvgRF	CCRF	%Dev		----------	
48		Trichloroethene	0.308	0.271	12.0	103	0.00	7.93
49		Methylcyclohexane	0.529	0.482	8.9	101	0.00	7.96
50		Dibromomethane	0.160	0.152	5.0	109	0.00	8.36
		----------	Amount	Calc.	%Drift		----------	
51	C	1,2-Dichloropropane	40.000	36.199	9.5	104	0.00	8.45
		----------	AvgRF	CCRF	%Dev		----------	
52		Bromodichloromethane	0.380	0.353	7.1	106	0.00	8.49
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5323-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976942.D
Project: BMSMC, Building 5 Area, Humacao, PR

53		Methyl methacrylate	40.000	36.871	7.8	107	0.00	8.59
54		2-Chloroethyl vinyl ether	200.000	189.307	5.3	110	0.00	9.00
		----------	AvgRF	CCRF	%Dev	----------		
55		cis-1,3-Dichloropropene	0.427	0.426	0.2	105	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00	10.85
57	S	Toluene-d8	1.264	1.298	-2.7	111	0.00	9.30
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	37.999	5.0	103	0.00	9.35
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.051	0.051	0.0	101	0.00	9.56
60		4-Methyl-2-pentanone	0.194	0.197	-1.5	107	0.00	9.67
61		trans-1,3-Dichloropropene	0.444	0.468	-5.4	106	0.00	9.73
62		Tetrachloroethene	0.401	0.359	10.5	96	0.00	9.76
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	40.489	-1.2	109	0.00	9.84
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.248	0.250	-0.8	105	0.00	9.90
65		Dibromochloromethane	0.324	0.337	-4.0	106	0.00	10.10
66		1,3-Dichloropropane	0.503	0.499	0.8	105	0.00	10.18
67		1,2-Dibromoethane	0.278	0.287	-3.2	107	0.00	10.36
		----------	Amount	Calc.	%Drift	----------		
68		2-hexanone	200.000	196.317	1.8	108	0.00	10.49
69		1-Chlorohexane	40.000	36.810	8.0	101	0.00	10.80
70	C	Ethylbenzene	40.000	36.824	7.9	100	0.00	10.86
71	P	Chlorobenzene	40.000	37.492	6.3	101	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	40.005	-0.0	106	0.00	10.91
73		m,p-Xylene	80.000	75.366	5.8	102	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.338	1.365	-2.0	103	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	38.447	3.9	103	0.00	11.49
76	P	Bromoform	40.000	40.073	-0.2	107	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.572	1.614	-2.7	102	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	13.21
79	S	4-Bromofluorobenzene	0.922	0.918	0.4	107	0.00	12.05
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	40.836	-2.1	109	0.00	12.09
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.533	3.444	2.5	102	0.00	12.16
82		Bromobenzene	0.840	0.814	3.1	104	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.641	0.628	2.0	104	0.00	12.22
84		1,3,5-Trimethylbenzene	2.593	2.630	-1.4	101	0.00	12.34
85		2-Chlorotoluene	2.572	2.454	4.6	102	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	39.814	0.5	107	0.00	12.40

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5323-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976942.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.164	0.170	-3.7	105	0.00	12.39
88	Cyclohexanone	0.018	0.015	16.7	82	0.00	12.45
89	4-Chlorotoluene	2.314	2.296	0.8	103	0.00	12.52
		Amount	Calc.	%Drift			
90	a-Methyl Styrene	40.000	38.237	4.4	104	0.00	12.60
		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.498	1.439	3.9	101	0.00	12.68
92	1,2,4-Trimethylbenzene	2.596	2.646	-1.9	102	0.00	12.75
93	Pentachloroethane	0.506	0.515	-1.8	113	0.00	12.74
94	sec-Butylbenzene	3.125	3.136	-0.4	102	0.00	12.87
95	4-Isopropyltoluene	2.727	2.704	0.8	101	0.00	13.00
96	1,3-Dichlorobenzene	1.452	1.425	1.9	102	0.00	13.13
		Amount	Calc.	%Drift			
97	1,4-Dichlorobenzene	40.000	38.985	2.5	103	0.00	13.22
		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.486	1.532	-3.1	102	0.00	13.43
		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	43.329	-8.3	112	0.00	13.44
		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.355	1.336	1.4	103	0.00	13.64
		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	37.756	5.6	97	0.00	14.38
102	Hexachlorobutadiene	40.000	37.015	7.5	100	0.00	14.93
		AvgRF	CCRF	%Dev			
103	1,2,4-Trichlorobenzene	0.901	0.938	-4.1	103	0.00	14.97
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	40.977	-2.4	106	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	40.667	-1.7	106	0.00	15.43
		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	89	0.00	5.30
107	Ethanol	0.140	0.123	12.1	80	0.00	4.28
108	acrolein	2.105	2.920	-38.7#	120	0.00	4.76
		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	400.700	-0.2	90	0.00	5.38
		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	0.922	1.000	-8.5	92	0.00	7.57
111	Isobutyl alcohol	0.408	0.434	-6.4	98	0.00	7.45
		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	737.657	7.8	80	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	2042.472	-2.1	95	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0

6.7.7

6

Continuing Calibration Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5323-CC5312
Lab FileID: J0976942.D

J0976757.D MSJ052316a.M Thu Jun 02 08:36:44 2016

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5323-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976967.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\060116\J0976967.D          Vial: 20
Acq On    :  1 Jun 2016   7:46 pm                     Operator: darshnap
Sample    : ecc5312-5                                 Inst    : MSVOA6
Misc      : MS34048,VJ5323,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jun 01 09:17:29 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	110	0.00	7.76
		----------	Amount	Calc.	%Drift	----------		
2		Dichlorodifluoromethane	40.000	37.866	5.3	106	0.00	2.70
3	P	Chloromethane	40.000	37.228	6.9	103	0.00	2.90
4	C	Vinyl Chloride	40.000	36.290	9.3	102	0.00	3.05
5		1,3-Butadiene	40.000	40.529	-1.3	129	0.00	3.04
6		Bromomethane	40.000	34.701	13.2	98	0.00	3.46
7		Chloroethane	40.000	35.854	10.4	103	0.00	3.61
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane	0.496	0.437	11.9	102	0.00	3.84
9		Ethyl Ether	0.219	0.193	11.9	96	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.343	0.298	13.1	98	0.00	4.36
11	C	1,1-Dichloroethene	0.428	0.376	12.1	100	0.00	4.40
12		Freon 113	0.299	0.263	12.0	98	0.00	4.47
		----------	Amount	Calc.	%Drift	----------		
13		Carbon Disulfide	40.000	34.209	14.5	97	0.00	4.48
		----------	AvgRF	CCRF	%Dev	----------		
14		Iodomethane	0.486	0.422	13.2	97	0.00	4.59
15		Allyl chloride	0.367	0.337	8.2	107	0.00	4.92
		----------	Amount	Calc.	%Drift	----------		
16		Methylene Chloride	40.000	33.487	16.3	93	0.00	5.04
17		Acetone	200.000	164.537	17.7	94	0.00	5.07
		----------	AvgRF	CCRF	%Dev	----------		
18		Methyl acetate	0.030	0.028	6.7	97	0.00	5.19
		----------	Amount	Calc.	%Drift	----------		
19		trans-1,2-Dichloroethene	40.000	35.138	12.2	99	0.00	5.23
		----------	AvgRF	CCRF	%Dev	----------		
20		Hexane	0.256	0.224	12.5	97	0.00	5.30
21		Methyl Tert Butyl Ether	0.746	0.669	10.3	95	0.00	5.33
		----------	Amount	Calc.	%Drift	----------		
22		Acetonitrile	400.000	358.869	10.3	102	0.00	5.59
		----------	AvgRF	CCRF	%Dev	----------		

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5323-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976967.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	0.836	0.747	10.6	94	0.00	5.72
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	37.647	5.9	117	0.00	5.88
25	P	1,1-Dichloroethane	40.000	35.557	11.1	99	0.00	5.90
26		Acrylonitrile	200.000	184.473	7.8	94	0.00	5.92
		----------	AvgRF	CCRF	%Dev	----------		
27		ETBE	0.853	0.784	8.1	95	0.00	6.12
28		Vinyl acetate	0.435	0.394	9.4	90	0.00	6.11
29		cis-1,2-Dichloroethene	0.330	0.292	11.5	97	0.00	6.48
30		2,2-Dichloropropane	0.421	0.356	15.4	94	0.00	6.61
31		Bromochloromethane	0.148	0.132	10.8	95	0.00	6.69
32		Cyclohexane	0.475	0.450	5.3	100	0.00	6.73
		----------	Amount	Calc.	%Drift	----------		
33	C	Chloroform	40.000	35.346	11.6	98	0.00	6.74
		----------	AvgRF	CCRF	%Dev	----------		
34		Ethyl acetate	0.156	0.143	8.3	93	0.00	6.80
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	34.525	13.7	92	0.00	6.91
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.253	0.249	1.6	108	0.00	6.92
37		Carbon Tetrachloride	0.418	0.379	9.3	101	0.00	6.93
38		1,1,1-Trichloroethane	0.495	0.432	12.7	97	0.00	7.00
39		2-Butanone	0.068	0.058	14.7	95	0.00	7.02
40		1,1-Dichloropropene	0.383	0.349	8.9	99	0.00	7.10
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	342.330	14.4	96	0.00	7.18
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.025	0.023	8.0	97	0.00	7.33
		----------	Amount	Calc.	%Drift	----------		
43		Methacrylonitrile	400.000	352.969	11.8	100	0.00	7.35
		----------	AvgRF	CCRF	%Dev	----------		
44		Benzene	1.201	1.062	11.6	98	0.00	7.35
45		TAME	0.779	0.718	7.8	96	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.285	0.275	3.5	109	0.00	7.48
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	35.433	11.4	98	0.00	7.55
		----------	AvgRF	CCRF	%Dev	----------		
48		Trichloroethene	0.308	0.267	13.3	97	0.00	7.93
49		Methylcyclohexane	0.529	0.496	6.2	99	0.00	7.96
50		Dibromomethane	0.160	0.142	11.3	97	0.00	8.36
		----------	Amount	Calc.	%Drift	----------		
51	C	1,2-Dichloropropane	40.000	34.573	13.6	94	0.00	8.45
		----------	AvgRF	CCRF	%Dev	----------		
52		Bromodichloromethane	0.380	0.332	12.6	94	0.00	8.49
		----------	Amount	Calc.	%Drift	----------		

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5323-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976967.D
Project: BMSMC, Building 5 Area, Humacao, PR

53		Methyl methacrylate	40.000	35.913	10.2	99	0.00	8.59
54		2-Chloroethyl vinyl ether	200.000	183.167	8.4	101	0.00	9.00
		----------	AvgRF	CCRF	%Dev	----------		
55		cis-1,3-Dichloropropene	0.427	0.400	6.3	94	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	104	0.00	10.85
57	S	Toluene-d8	1.264	1.280	-1.3	106	0.00	9.30
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	37.537	6.2	98	0.00	9.35
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.051	0.049	3.9	93	0.00	9.56
60		4-Methyl-2-pentanone	0.194	0.193	0.5	100	0.00	9.67
61		trans-1,3-Dichloropropene	0.444	0.439	1.1	95	0.00	9.73
62		Tetrachloroethene	0.401	0.370	7.7	95	0.00	9.76
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	39.128	2.2	101	0.00	9.84
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.248	0.234	5.6	95	0.00	9.90
65		Dibromochloromethane	0.324	0.309	4.6	93	0.00	10.10
66		1,3-Dichloropropane	0.503	0.466	7.4	95	0.00	10.18
67		1,2-Dibromoethane	0.278	0.262	5.8	94	0.00	10.36
		----------	Amount	Calc.	%Drift	----------		
68		2-hexanone	200.000	190.176	4.9	100	0.00	10.49
69		1-Chlorohexane	40.000	37.164	7.1	98	0.00	10.79
70	C	Ethylbenzene	40.000	37.370	6.6	98	0.00	10.86
71	P	Chlorobenzene	40.000	37.044	7.4	96	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	37.848	5.4	96	0.00	10.91
73		m,p-Xylene	80.000	75.588	5.5	98	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.338	1.355	-1.3	98	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	37.435	6.4	97	0.00	11.48
76	P	Bromoform	40.000	36.791	8.0	94	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.572	1.634	-3.9	99	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	13.21
79	S	4-Bromofluorobenzene	0.922	0.910	1.3	102	0.00	12.05
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	32.356	19.1	83	0.00	12.09
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.533	3.471	1.8	99	0.00	12.16
82		Bromobenzene	0.840	0.782	6.9	96	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.641	0.601	6.2	96	0.00	12.22
84		1,3,5-Trimethylbenzene	2.593	2.649	-2.2	98	0.00	12.34
85		2-Chlorotoluene	2.572	2.439	5.2	98	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	31.572	21.1	81	0.00	12.40

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5323-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976967.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.164	0.158	3.7	94	0.00	12.38
88	Cyclohexanone	0.018	0.012	33.3	64	0.00	12.45
89	4-Chlorotoluene	2.314	2.263	2.2	97	0.00	12.51

		Amount	Calc.	%Drift			
90	a-Methyl Styrene	40.000	39.481	1.3	104	0.00	12.60

		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.498	1.478	1.3	100	0.00	12.68
92	1,2,4-Trimethylbenzene	2.596	2.630	-1.3	98	0.00	12.75
93	Pentachloroethane	0.506	0.500	1.2	106	0.00	12.74
94	sec-Butylbenzene	3.125	3.192	-2.1	100	0.00	12.87
95	4-Isopropyltoluene	2.727	2.746	-0.7	99	0.00	13.00
96	1,3-Dichlorobenzene	1.452	1.384	4.7	96	0.00	13.13

		Amount	Calc.	%Drift			
97	1,4-Dichlorobenzene	40.000	37.676	5.8	96	0.00	13.22

		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.486	1.536	-3.4	99	0.00	13.43

		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	37.109	7.2	92	0.00	13.44

		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.355	1.287	5.0	96	0.00	13.64

		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	35.443	11.4	88	0.00	14.38
102	Hexachlorobutadiene	40.000	37.791	5.5	98	0.00	14.93

		AvgRF	CCRF	%Dev			
103	1,2,4-Trichlorobenzene	0.901	0.889	1.3	94	0.00	14.97

		Amount	Calc.	%Drift			
104	Naphthalene	40.000	39.001	2.5	97	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	38.333	4.2	96	0.00	15.43

		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	97	-0.01	5.30
107	Ethanol	0.140	0.133	5.0	95	0.00	4.28
108	acrolein	2.105	2.386	-13.3	108	0.00	4.76

		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	369.030	7.7	91	0.00	5.38

		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	0.922	0.914	0.9	93	0.00	7.57
111	Isobutyl alcohol	0.408	0.395	3.2	98	0.00	7.45

		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	775.859	3.0	93	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	1870.186	6.5	95	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Continuing Calibration Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5323-ECC5312
Lab FileID: J0976967.D

J0976757.D MSJ052316a.M Thu Jun 02 08:40:42 2016

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5325-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976971.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\160602\j0976971.d          Vial: 1
Acq On    :  2 Jun 2016   9:44 am                     Operator: darshnap
Sample    : cc5312-5                                  Inst    : MSVOA6
Misc      : MS34048,VJ5325,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ052316a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri Jun 03 16:08:45 2016
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	118	0.00	7.76
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	37.175	7.1	111	0.00	2.69
3	P	Chloromethane	40.000	36.007	10.0	106	0.00	2.91
4	C	Vinyl Chloride	40.000	33.705	15.7	101	0.00	3.05
5		1,3-Butadiene	40.000	32.322	19.2	110	0.00	3.04
6		Bromomethane	40.000	34.448	13.9	104	0.00	3.47
7		Chloroethane	40.000	31.763	20.6#	100	0.00	3.62
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.496	0.413	16.7	103	0.00	3.84
9		Ethyl Ether	0.219	0.206	5.9	109	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.343	0.296	13.7	104	0.00	4.36
11	C	1,1-Dichloroethene	0.428	0.384	10.3	109	0.00	4.40
12		Freon 113	0.299	0.264	11.7	105	0.00	4.46
			Amount	Calc.	%Drift			
13		Carbon Disulfide	40.000	34.785	13.0	105	0.00	4.48
			AvgRF	CCRF	%Dev			
14		Iodomethane	0.486	0.445	8.4	109	0.00	4.59
15		Allyl chloride	0.367	0.343	6.5	116	0.00	4.92
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	36.482	8.8	108	0.00	5.04
17		Acetone	200.000	185.484	7.3	112	0.00	5.07
			AvgRF	CCRF	%Dev			
18		Methyl acetate	0.030	0.030	0.0	112	0.00	5.19
			Amount	Calc.	%Drift			
19		trans-1,2-Dichloroethene	40.000	36.841	7.9	111	0.00	5.23
			AvgRF	CCRF	%Dev			
20		Hexane	0.256	0.230	10.2	106	0.00	5.30
21		Methyl Tert Butyl Ether	0.746	0.703	5.8	106	0.00	5.33
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	353.708	11.6	107	0.00	5.59
			AvgRF	CCRF	%Dev			

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5325-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976971.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	0.836	0.771	7.8	104	0.00	5.72
		----------	Amount	Calc.	%Drift		----------	
24		Chloroprene	40.000	36.282	9.3	120	0.00	5.87
25	P	1,1-Dichloroethane	40.000	36.455	8.9	108	0.00	5.89
26		Acrylonitrile	200.000	181.921	9.0	99	0.00	5.92
		----------	AvgRF	CCRF	%Dev		----------	
27		ETBE	0.853	0.811	4.9	105	0.00	6.12
28		Vinyl acetate	0.435	0.393	9.7	96	0.00	6.10
29		cis-1,2-Dichloroethene	0.330	0.307	7.0	109	0.00	6.47
30		2,2-Dichloropropane	0.421	0.383	9.0	108	0.00	6.61
31		Bromochloromethane	0.148	0.140	5.4	108	0.00	6.69
32		Cyclohexane	0.475	0.439	7.6	104	0.00	6.73
		----------	Amount	Calc.	%Drift		----------	
33	C	Chloroform	40.000	36.208	9.5	108	0.00	6.73
		----------	AvgRF	CCRF	%Dev		----------	
34		Ethyl acetate	0.156	0.143	8.3	99	0.00	6.80
		----------	Amount	Calc.	%Drift		----------	
35		Tetrahydrofuran	40.000	37.012	7.5	106	0.00	6.92
		----------	AvgRF	CCRF	%Dev		----------	
36	S	Dibromofluoromethane	0.253	0.252	0.4	117	0.00	6.92
37		Carbon Tetrachloride	0.418	0.382	8.6	108	0.00	6.93
38		1,1,1-Trichloroethane	0.495	0.434	12.3	104	0.00	7.00
39		2-Butanone	0.068	0.061	10.3	108	0.00	7.02
40		1,1-Dichloropropene	0.383	0.349	8.9	106	0.00	7.10
		----------	Amount	Calc.	%Drift		----------	
41		tert-Butyl Formate	400.000	356.132	11.0	107	0.00	7.18
		----------	AvgRF	CCRF	%Dev		----------	
42		Propionitrile	0.025	0.023	8.0	103	0.00	7.33
		----------	Amount	Calc.	%Drift		----------	
43		Methacrylonitrile	400.000	358.531	10.4	108	0.00	7.35
		----------	AvgRF	CCRF	%Dev		----------	
44		Benzene	1.201	1.071	10.8	106	0.00	7.35
45		TAME	0.779	0.740	5.0	106	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.285	0.276	3.2	117	0.00	7.48
		----------	Amount	Calc.	%Drift		----------	
47		1,2-Dichloroethane	40.000	36.383	9.0	107	0.00	7.54
		----------	AvgRF	CCRF	%Dev		----------	
48		Trichloroethene	0.308	0.265	14.0	103	0.00	7.93
49		Methylcyclohexane	0.529	0.493	6.8	105	0.00	7.96
50		Dibromomethane	0.160	0.149	6.9	109	0.00	8.36
		----------	Amount	Calc.	%Drift		----------	
51	C	1,2-Dichloropropane	40.000	35.502	11.2	103	0.00	8.44
		----------	AvgRF	CCRF	%Dev		----------	
52		Bromodichloromethane	0.380	0.336	11.6	102	0.00	8.49
		----------	Amount	Calc.	%Drift		----------	

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5325-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976971.D
Project: BMSMC, Building 5 Area, Humacao, PR

53		Methyl methacrylate	40.000	36.683	8.3	108	0.00	8.59
54		2-Chloroethyl vinyl ether	200.000	185.653	7.2	110	0.00	9.00
		----------	AvgRF	CCRF	%Dev	----------		
55		cis-1,3-Dichloropropene	0.427	0.417	2.3	105	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00	10.85
57	S	Toluene-d8	1.264	1.302	-3.0	112	0.00	9.29
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	38.059	4.9	104	0.00	9.35
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.051	0.051	0.0	102	0.00	9.55
60		4-Methyl-2-pentanone	0.194	0.195	-0.5	106	0.00	9.67
61		trans-1,3-Dichloropropene	0.444	0.471	-6.1	107	0.00	9.73
62		Tetrachloroethene	0.401	0.375	6.5	101	0.00	9.76
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	39.485	1.3	107	0.00	9.84
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.248	0.242	2.4	102	0.00	9.90
65		Dibromochloromethane	0.324	0.333	-2.8	105	0.00	10.10
66		1,3-Dichloropropane	0.503	0.492	2.2	104	0.00	10.18
67		1,2-Dibromoethane	0.278	0.279	-0.4	105	0.00	10.36
		----------	Amount	Calc.	%Drift	----------		
68		2-hexanone	200.000	194.745	2.6	107	0.00	10.49
69		1-Chlorohexane	40.000	37.572	6.1	104	0.00	10.79
70	C	Ethylbenzene	40.000	37.824	5.4	103	0.00	10.86
71	P	Chlorobenzene	40.000	37.642	5.9	102	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	39.213	2.0	105	0.00	10.91
73		m,p-Xylene	80.000	76.168	4.8	104	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.338	1.377	-2.9	104	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	38.468	3.8	104	0.00	11.49
76	P	Bromoform	40.000	39.014	2.5	104	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.572	1.645	-4.6	104	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	13.21
79	S	4-Bromofluorobenzene	0.922	0.912	1.1	106	0.00	12.05
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	42.742	-6.9	114	0.00	12.09
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.533	3.504	0.8	103	0.00	12.16
82		Bromobenzene	0.840	0.819	2.5	104	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.641	0.630	1.7	104	0.00	12.22
84		1,3,5-Trimethylbenzene	2.593	2.667	-2.9	103	0.00	12.34
85		2-Chlorotoluene	2.572	2.491	3.1	103	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	42.504	-6.3	114	0.00	12.40

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5325-CC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976971.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.164	0.165	-0.6	102	0.00	12.38
88	Cyclohexanone	0.018	0.018	0.0	98	0.00	12.45
89	4-Chlorotoluene	2.314	2.321	-0.3	104	0.00	12.52
		Amount	Calc.	%Drift			
90	a-Methyl Styrene	40.000	38.759	3.1	106	0.00	12.60
		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.498	1.482	1.1	104	0.00	12.68
92	1,2,4-Trimethylbenzene	2.596	2.659	-2.4	102	0.00	12.75
93	Pentachloroethane	0.506	0.516	-2.0	113	0.00	12.74
94	sec-Butylbenzene	3.125	3.181	-1.8	103	0.00	12.87
95	4-Isopropyltoluene	2.727	2.754	-1.0	103	0.00	13.00
96	1,3-Dichlorobenzene	1.452	1.415	2.5	102	0.00	13.13
		Amount	Calc.	%Drift			
97	1,4-Dichlorobenzene	40.000	38.998	2.5	103	0.00	13.22
		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.486	1.550	-4.3	103	0.00	13.43
		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	43.540	-8.8	112	0.00	13.45
		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.355	1.325	2.2	102	0.00	13.64
		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	38.000	5.0	98	0.00	14.38
102	Hexachlorobutadiene	40.000	38.736	3.2	104	0.00	14.93
		AvgRF	CCRF	%Dev			
103	1,2,4-Trichlorobenzene	0.901	0.928	-3.0	102	0.00	14.97
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	40.493	-1.2	104	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	40.080	-0.2	104	0.00	15.43
		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	107	0.00	5.30
107	Ethanol	0.140	0.111	20.7#	87	-0.01	4.27
108	acrolein	2.105	2.438	-15.8	121	0.00	4.76
		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	377.799	5.6	103	0.00	5.38
		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	0.922	0.935	-1.4	104	0.00	7.57
111	Isobutyl alcohol	0.408	0.392	3.9	106	0.00	7.45
		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	780.008	2.5	102	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	1843.690	7.8	103	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Continuing Calibration Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5325-CC5312
Lab FileID: J0976971.D

j0976757.d MSJ052316a.M Mon Jun 06 11:02:21 2016

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5325-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976996.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\160602\j0976996.d          Vial: 21
Acq On    :  2 Jun 2016   7:25 pm                    Operator: darshnap
Sample    : ecc5312-5                                Inst    : MSVOA6
Misc      : MS34057,VJ5325,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ052316a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Fri Jun 03 16:08:45 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	108	0.00	7.76
		----------	Amount	Calc.	%Drift	----------		
2		Dichlorodifluoromethane	40.000	35.134	12.2	96	0.00	2.69
3	P	Chloromethane	40.000	36.214	9.5	98	0.00	2.90
4	C	Vinyl Chloride	40.000	35.051	12.4	96	0.00	3.05
5		1,3-Butadiene	40.000	49.824	-24.6	155	0.00	3.04
6		Bromomethane	40.000	32.972	17.6	92	0.00	3.47
7		Chloroethane	40.000	33.729	15.7	96	0.00	3.62
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane	0.496	0.423	14.7	97	0.00	3.84
9		Ethyl Ether	0.219	0.192	12.3	93	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.343	0.302	12.0	97	0.00	4.36
11	C	1,1-Dichloroethene	0.428	0.386	9.8	101	0.00	4.40
12		Freon 113	0.299	0.257	14.0	94	0.00	4.47
		----------	Amount	Calc.	%Drift	----------		
13		Carbon Disulfide	40.000	35.349	11.6	98	0.00	4.48
		----------	AvgRF	CCRF	%Dev	----------		
14		Iodomethane	0.486	0.423	13.0	95	0.00	4.59
15		Allyl chloride	0.367	0.333	9.3	103	0.00	4.93
		----------	Amount	Calc.	%Drift	----------		
16		Methylene Chloride	40.000	34.475	13.8	94	0.00	5.05
17		Acetone	200.000	167.606	16.2	93	0.00	5.07
		----------	AvgRF	CCRF	%Dev	----------		
18		Methyl acetate	0.030	0.029	3.3	97	0.00	5.19
		----------	Amount	Calc.	%Drift	----------		
19		trans-1,2-Dichloroethene	40.000	35.784	10.5	99	0.00	5.23
		----------	AvgRF	CCRF	%Dev	----------		
20		Hexane	0.256	0.228	10.9	96	0.00	5.30
21		Methyl Tert Butyl Ether	0.746	0.675	9.5	94	0.00	5.33
		----------	Amount	Calc.	%Drift	----------		
22		Acetonitrile	400.000	342.504	14.4	95	0.00	5.59
		----------	AvgRF	CCRF	%Dev	----------		

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5325-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976996.D
Project: BMSMC, Building 5 Area, Humacao, PR

23		Di-isopropyl ether	0.836	0.758	9.3	94	0.00	5.72
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	39.460	1.3	120	0.00	5.88
25	P	1,1-Dichloroethane	40.000	35.574	11.1	97	0.00	5.90
26		Acrylonitrile	200.000	170.936	14.5	86	0.00	5.92
		----------	AvgRF	CCRF	%Dev	----------		
27		ETBE	0.853	0.793	7.0	94	0.00	6.12
28		Vinyl acetate	0.435	0.396	9.0	89	0.00	6.11
29		cis-1,2-Dichloroethene	0.330	0.299	9.4	97	0.00	6.47
30		2,2-Dichloropropane	0.421	0.368	12.6	95	0.00	6.61
31		Bromochloromethane	0.148	0.137	7.4	97	0.00	6.69
32		Cyclohexane	0.475	0.447	5.9	97	0.00	6.73
		----------	Amount	Calc.	%Drift	----------		
33	C	Chloroform	40.000	35.166	12.1	96	0.00	6.74
		----------	AvgRF	CCRF	%Dev	----------		
34		Ethyl acetate	0.156	0.142	9.0	90	0.00	6.81
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	34.399	14.0	90	0.00	6.92
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.253	0.248	2.0	105	0.00	6.93
37		Carbon Tetrachloride	0.418	0.385	7.9	100	0.00	6.93
38		1,1,1-Trichloroethane	0.495	0.443	10.5	98	0.00	7.00
39		2-Butanone	0.068	0.059	13.2	96	0.00	7.03
40		1,1-Dichloropropene	0.383	0.354	7.6	99	0.00	7.10
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	328.687	17.8	91	0.00	7.19
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.025	0.022	12.0	91	0.00	7.33
		----------	Amount	Calc.	%Drift	----------		
43		Methacrylonitrile	400.000	355.163	11.2	98	0.00	7.36
		----------	AvgRF	CCRF	%Dev	----------		
44		Benzene	1.201	1.088	9.4	98	0.00	7.36
45		TAME	0.779	0.712	8.6	93	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.285	0.277	2.8	108	0.00	7.48
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	35.626	10.9	96	0.00	7.55
		----------	AvgRF	CCRF	%Dev	----------		
48		Trichloroethene	0.308	0.277	10.1	98	0.00	7.94
49		Methylcyclohexane	0.529	0.490	7.4	96	0.00	7.96
50		Dibromomethane	0.160	0.147	8.1	98	0.00	8.36
		----------	Amount	Calc.	%Drift	----------		
51	C	1,2-Dichloropropane	40.000	35.119	12.2	94	0.00	8.45
		----------	AvgRF	CCRF	%Dev	----------		
52		Bromodichloromethane	0.380	0.334	12.1	93	0.00	8.50
		----------	Amount	Calc.	%Drift	----------		

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5325-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976996.D
Project: BMSMC, Building 5 Area, Humacao, PR

53		Methyl methacrylate	40.000	35.411	11.5	95	0.00	8.60
54		2-Chloroethyl vinyl ether	200.000	193.591	3.2	105	0.00	9.01
		----------	AvgRF	CCRF	%Dev	----------		
55		cis-1,3-Dichloropropene	0.427	0.399	6.6	92	0.00	9.11
56	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	10.85
57	S	Toluene-d8	1.264	1.283	-1.5	104	0.00	9.30
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	37.926	5.2	97	0.00	9.35
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.051	0.050	2.0	94	0.00	9.56
60		4-Methyl-2-pentanone	0.194	0.194	0.0	98	0.00	9.67
61		trans-1,3-Dichloropropene	0.444	0.435	2.0	93	0.00	9.73
62		Tetrachloroethene	0.401	0.368	8.2	92	0.00	9.76
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	38.665	3.3	98	0.00	9.84
		----------	AvgRF	CCRF	%Dev	----------		
64		1,1,2-Trichloroethane	0.248	0.236	4.8	93	0.00	9.90
65		Dibromochloromethane	0.324	0.316	2.5	93	0.00	10.10
66		1,3-Dichloropropane	0.503	0.483	4.0	96	0.00	10.18
67		1,2-Dibromoethane	0.278	0.265	4.7	93	0.00	10.36
		----------	Amount	Calc.	%Drift	----------		
68		2-hexanone	200.000	191.711	4.1	99	0.00	10.49
69		1-Chlorohexane	40.000	37.201	7.0	96	0.00	10.80
70	C	Ethylbenzene	40.000	37.953	5.1	97	0.00	10.86
71	P	Chlorobenzene	40.000	37.639	5.9	95	0.00	10.86
72		1,1,1,2-Tetrachloroethane	40.000	37.594	6.0	95	0.00	10.91
73		m,p-Xylene	80.000	76.711	4.1	98	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.338	1.368	-2.2	97	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	38.058	4.9	96	0.00	11.48
76	P	Bromoform	40.000	37.341	6.6	93	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.572	1.646	-4.7	98	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	13.20
79	S	4-Bromofluorobenzene	0.922	0.903	2.1	100	0.00	12.05
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	19.332	51.7#	48	0.00	12.09
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.533	3.487	1.3	98	0.00	12.16
82		Bromobenzene	0.840	0.780	7.1	95	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.641	0.603	5.9	95	0.00	12.22
84		1,3,5-Trimethylbenzene	2.593	2.645	-2.0	97	0.00	12.34
85		2-Chlorotoluene	2.572	2.416	6.1	96	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	21.292	46.8	54	0.00	12.40

Continuing Calibration Summary

Job Number: FA34367 **Sample:** VJ5325-ECC5312
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976996.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
87	1,2,3-Trichloropropane	0.164	0.158	3.7	93	0.00	12.38
88	Cyclohexanone	0.018	0.012	33.3	62	0.00	12.45
89	4-Chlorotoluene	2.314	2.266	2.1	96	0.00	12.51
		Amount	Calc.	%Drift			
90	a-Methyl Styrene	40.000	38.845	2.9	101	0.00	12.60
		AvgRF	CCRF	%Dev			
91	tert-Butylbenzene	1.498	1.462	2.4	97	0.00	12.68
92	1,2,4-Trimethylbenzene	2.596	2.618	-0.8	96	0.00	12.75
93	Pentachloroethane	0.506	0.498	1.6	104	0.00	12.74
94	sec-Butylbenzene	3.125	3.182	-1.8	98	0.00	12.87
95	4-Isopropyltoluene	2.727	2.693	1.2	96	0.00	13.00
96	1,3-Dichlorobenzene	1.452	1.387	4.5	95	0.00	13.13
		Amount	Calc.	%Drift			
97	1,4-Dichlorobenzene	40.000	37.636	5.9	95	0.00	13.22
		AvgRF	CCRF	%Dev			
98	n-Butylbenzene	1.486	1.512	-1.7	96	0.00	13.43
		Amount	Calc.	%Drift			
99	Benzyl Chloride	40.000	36.597	8.5	89	0.00	13.44
		AvgRF	CCRF	%Dev			
100	1,2-Dichlorobenzene	1.355	1.280	5.5	94	0.00	13.64
		Amount	Calc.	%Drift			
101	1,2-Dibromo-3-Chloropropa	40.000	36.558	8.6	90	0.00	14.38
102	Hexachlorobutadiene	40.000	37.598	6.0	97	0.00	14.93
		AvgRF	CCRF	%Dev			
103	1,2,4-Trichlorobenzene	0.901	0.872	3.2	91	0.00	14.97
		Amount	Calc.	%Drift			
104	Naphthalene	40.000	38.069	4.8	93	0.00	15.26
105	1,2,3-Trichlorobenzene	40.000	37.840	5.4	93	0.00	15.43
		AvgRF	CCRF	%Dev			
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	98	0.00	5.30
107	Ethanol	0.140	0.111	20.7	80	0.00	4.28
108	acrolein	2.105	2.472	-17.4	113	0.00	4.76
		Amount	Calc.	%Drift			
109	Tert Butyl Alcohol	400.000	363.878	9.0	91	0.00	5.38
		AvgRF	CCRF	%Dev			
110	tert Amyl alcohol	0.922	0.878	4.8	90	0.00	7.57
111	Isobutyl alcohol	0.408	0.389	4.7	97	0.00	7.45
		Amount	Calc.	%Drift			
112	1,4-Dioxane	800.000	714.448	10.7	86	0.00	8.67
113	3,3-Dimethyl-1-butanol	2000.000	1681.618	15.9	87	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Continuing Calibration Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5325-ECC5312
Lab FileID: J0976996.D

j0976757.d MSJ052316a.M Mon Jun 06 11:02:42 2016

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976946.D
Acq On : 1 Jun 2016 11:44 am
Operator : darshnap
Sample : fa34367-1 ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 01 13:56:28 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

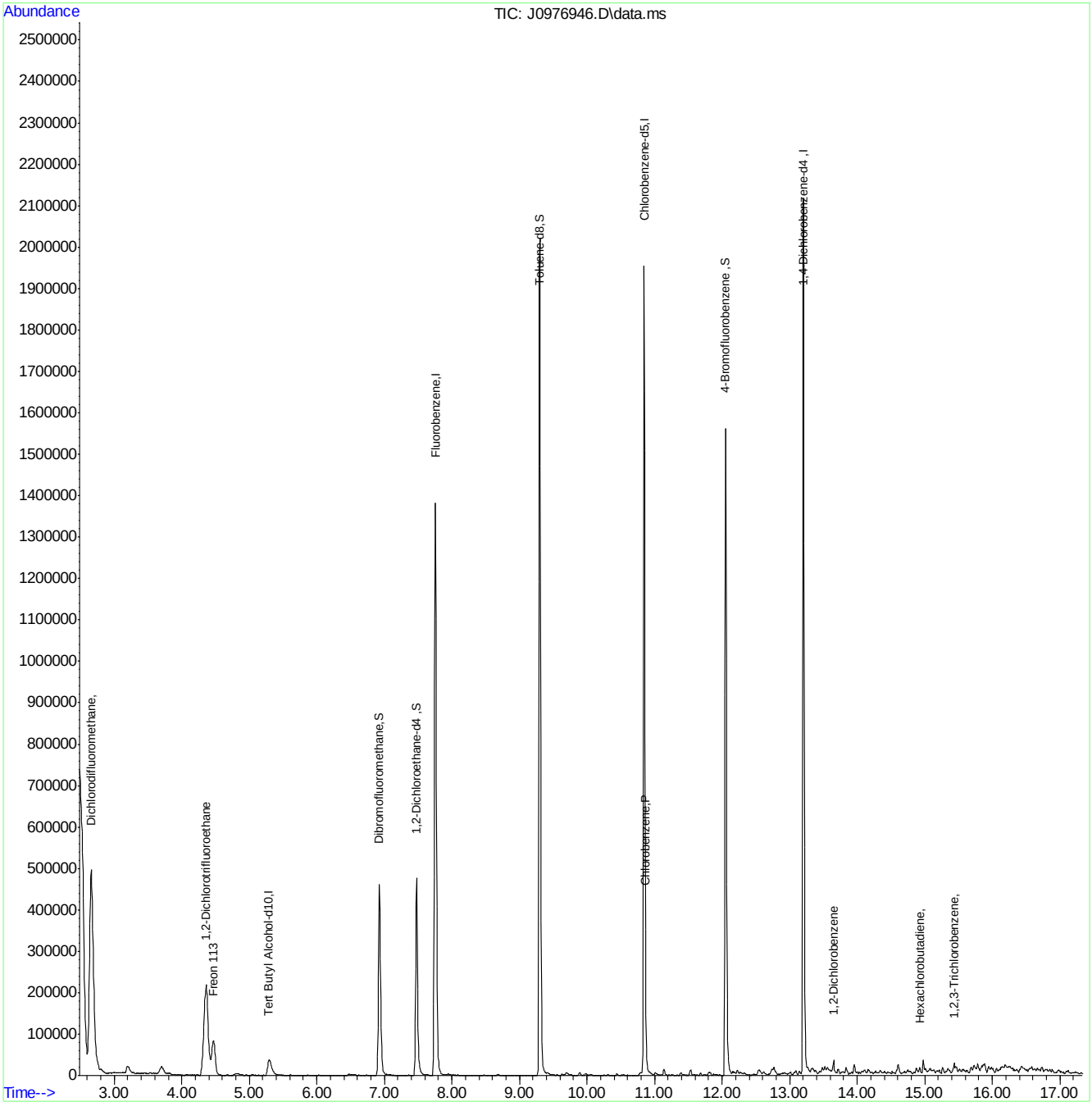
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1262319	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	948808	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	501145	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.286	65	77941	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	325368	50.92	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.84%			
46) 1,2-Dichloroethane-d4	7.476	65	364847	50.64	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.28%			
57) Toluene-d8	9.301	98	1256738	52.38	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.76%			
79) 4-Bromofluorobenzene	12.051	95	480525	52.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.658	85	209559	25.53	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.361	67	262170	30.32	ug/L	94
12) Freon 113	4.471	101	67392	8.93	ug/L	90
71) Chlorobenzene	10.864	112	4448	0.21	ug/L	76
100) 1,2-Dichlorobenzene	13.651	146	11273	0.83	ug/L	88
102) Hexachlorobutadiene	14.928	225	1468	0.25	ug/L	81
105) 1,2,3-Trichlorobenzene	15.433	180	5700	0.74	ug/L	94

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

Quantitation Report (QT Reviewed)

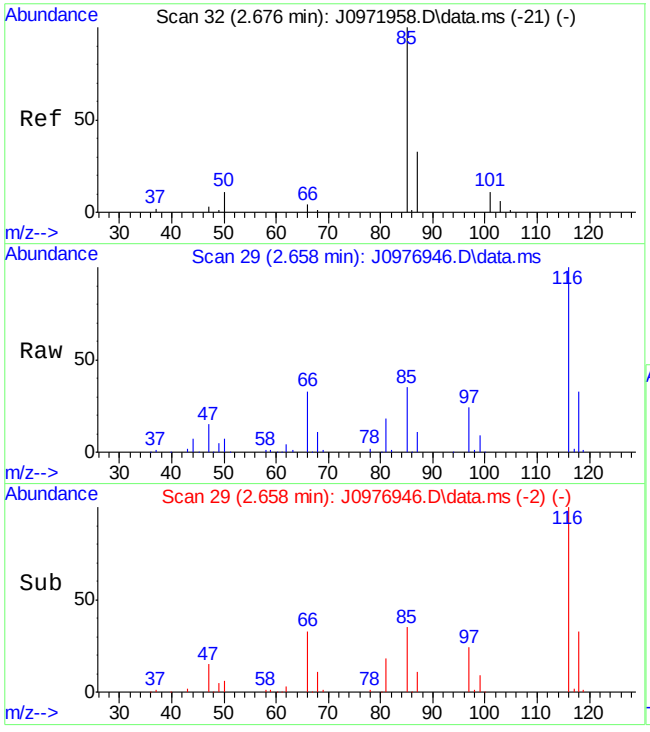
Data Path : C:\msdchem\2\data\060116\
Data File : J0976946.D
Acq On : 1 Jun 2016 11:44 am
Operator : darshnap
Sample : fa34367-1 ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 01 13:56:28 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



MSJ052316a.M Thu Jun 02 08:35:47 2016 Page: 2

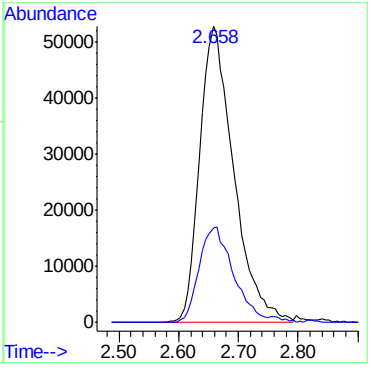
SGS ACCUTEST FA34367

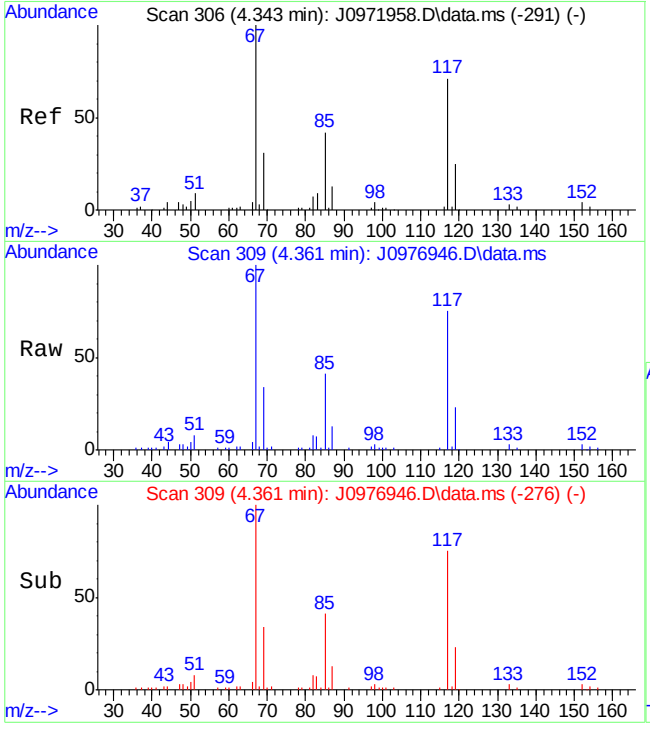


#2
Dichlorodifluoromethane
Concen: 25.53 ug/L
RT: 2.658 min Scan# 29
Delta R.T. -0.036 min
Lab File: J0976946.D
Acq: 1 Jun 2016 11:44 am

Tgt Ion: 85 Resp: 209559

Ion	Ratio	Lower	Upper
85	100		
87	31.8	0.5	60.5

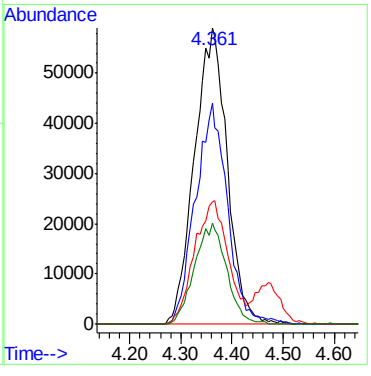


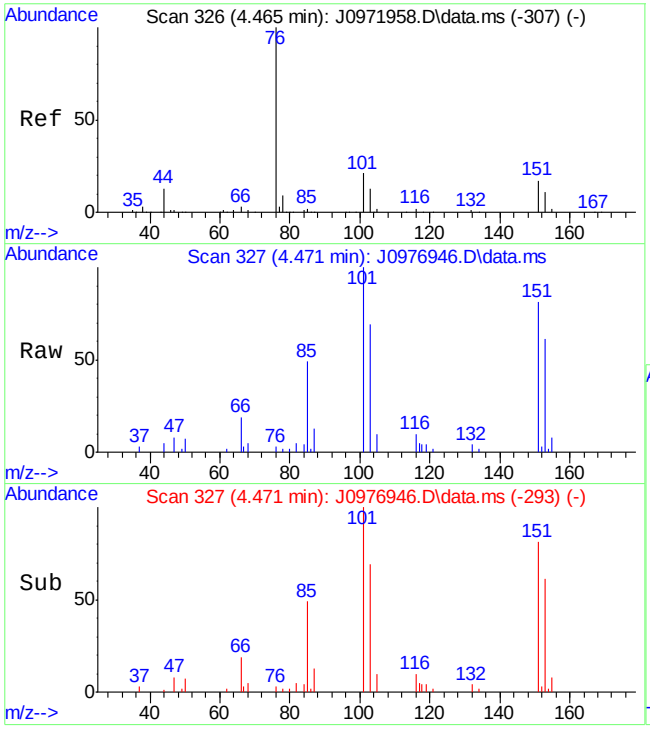


#10
1,2-Dichlorotrifluoroethane
Concen: 30.32 ug/L
RT: 4.361 min Scan# 309
Delta R.T. 0.000 min
Lab File: J0976946.D
Acq: 1 Jun 2016 11:44 am

Tgt Ion: 67 Resp: 262170

Ion	Ratio	Lower	Upper
67	100		
117	74.6	48.4	88.4
85	41.1	19.5	59.5
69	34.2	11.8	51.8

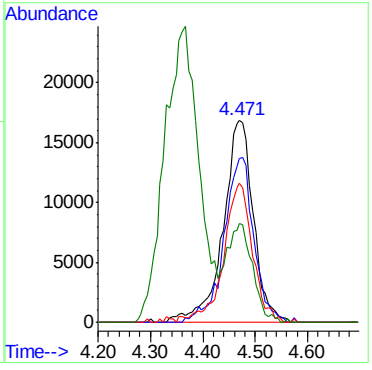


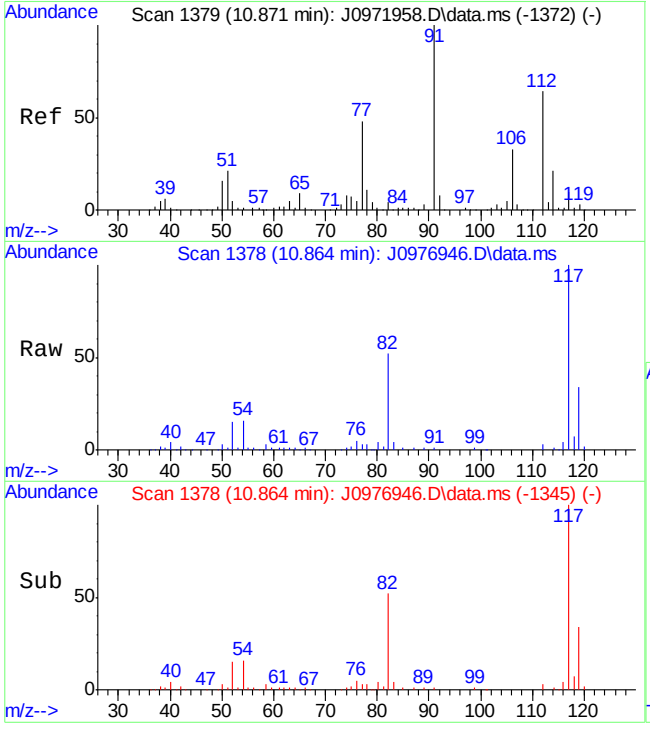


#12
Freon 113
Concen: 8.93 ug/L
RT: 4.471 min Scan# 327
Delta R.T. 0.007 min
Lab File: J0976946.D
Acq: 1 Jun 2016 11:44 am

Tgt Ion:101 Resp: 67392

Ion	Ratio	Lower	Upper
101	100		
151	81.2	56.6	96.6
103	69.0	37.7	77.7
85	49.1	21.7	61.7

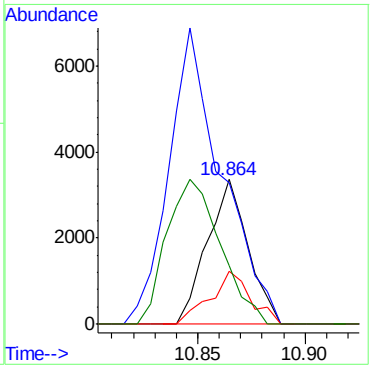


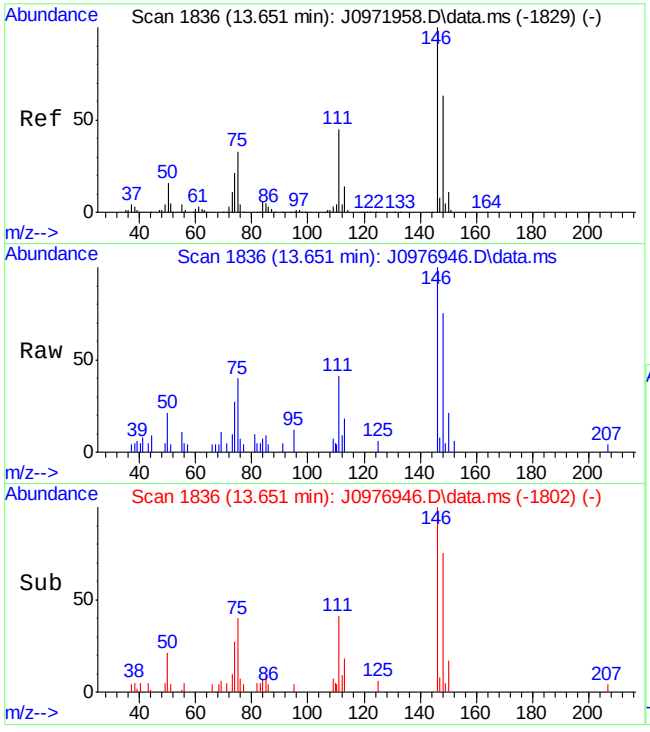


#71
Chlorobenzene
Concen: 0.21 ug/L
RT: 10.864 min Scan# 1378
Delta R.T. 0.000 min
Lab File: J0976946.D
Acq: 1 Jun 2016 11:44 am

Tgt Ion:112 Resp: 4448

Ion	Ratio	Lower	Upper
112	100		
77	97.8	40.0	100.0
114	36.4	2.7	62.7
51	40.4	0.0	59.3

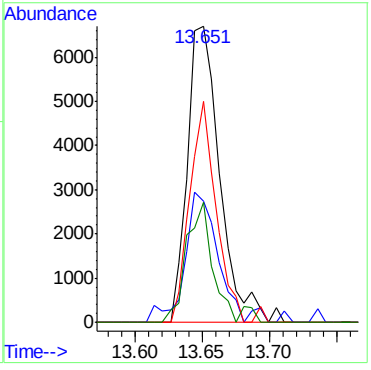


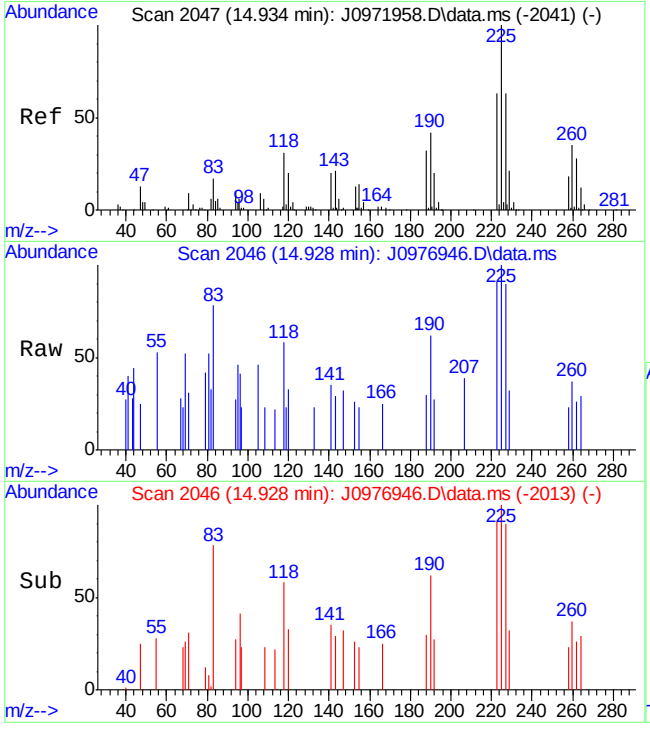


#100
1,2-Dichlorobenzene
Concen: 0.83 ug/L
RT: 13.651 min Scan# 1836
Delta R.T. 0.006 min
Lab File: J0976946.D
Acq: 1 Jun 2016 11:44 am

Tgt Ion:146 Resp: 11273

Ion	Ratio	Lower	Upper
146	100		
111	41.0	13.0	73.0
148	74.5	33.8	93.8
75	40.4	0.1	60.1

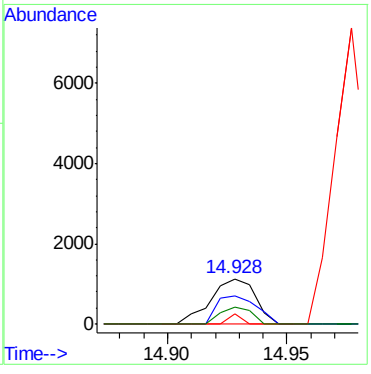


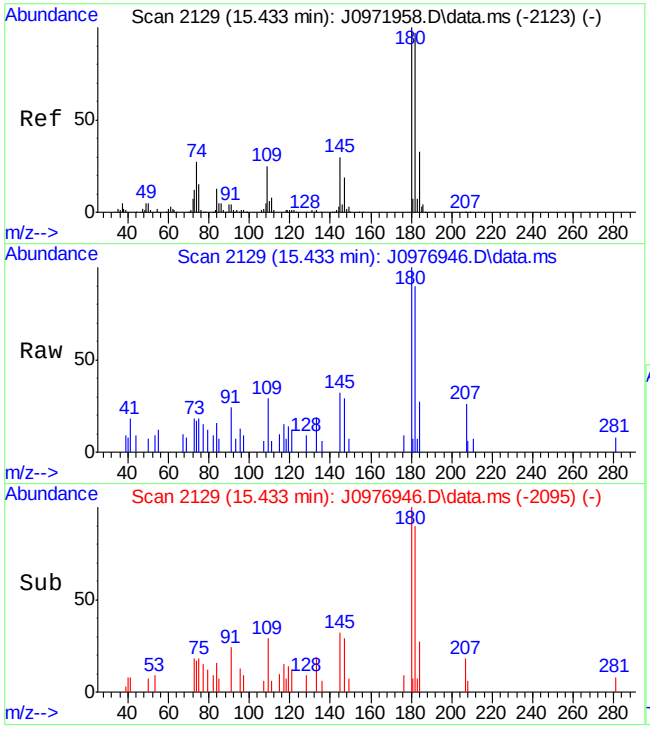


#102
Hexachlorobutadiene
Concen: 0.25 ug/L
RT: 14.928 min Scan# 2046
Delta R.T. 0.000 min
Lab File: J0976946.D
Acq: 1 Jun 2016 11:44 am

Tgt Ion:225 Resp: 1468

Ion	Ratio	Lower	Upper
225	100		
190	62.4	13.0	73.0
119	22.9	0.0	33.5
260	36.6	6.2	66.2

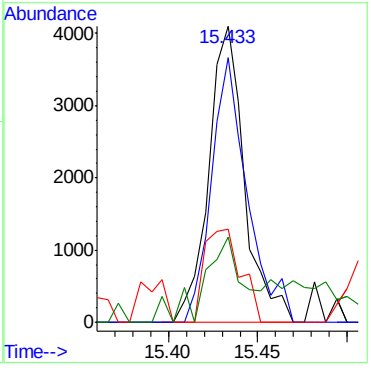




#105
1,2,3-Trichlorobenzene
Concen: 0.74 ug/L
RT: 15.433 min Scan# 2129
Delta R.T. 0.006 min
Lab File: J0976946.D
Acq: 1 Jun 2016 11:44 am

Tgt Ion:180 Resp: 5700

Ion	Ratio	Lower	Upper
180	100		
182	89.6	65.1	125.1
145	31.6	0.0	59.9
109	19.9	0.0	56.0



7.1.1

7

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116029.D
Acq On : 1 Jun 2016 12:06 pm
Operator : ericp
Sample : FA34367-2 MA Inst : MSVOA5
Misc : ms34045,vc4610,5.31,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 01 13:02:34 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.883	96	1068801	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	777705	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	481783	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.517	65	131877	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.050	113	382582	56.42	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 112.84%			
44) 1,2-Dichloroethane-d4	6.610	65	416011	55.68	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 111.36%			
55) Toluene-d8	8.447	98	1045120	47.09	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 94.18%			
77) 4-Bromofluorobenzene	11.227	174	334258	43.56	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 87.12%			
Target Compounds						Qvalue
15) Methylene Chloride	4.249	49	56358	7.59	ug/Kg	90
16) Acetone	4.304	43	21610	15.37	ug/Kg	87
20) Methyl Tert Butyl Ether	4.511	73	50938	2.65	ug/Kg	94
21) Acetonitrile	4.791	41	5106	17.62	ug/Kg#	50
38) 2-Butanone	6.184	43	12351	7.30	ug/Kg	94
106) Tert butyl alcohol	4.596	59	40394	56.97	ug/Kg	90

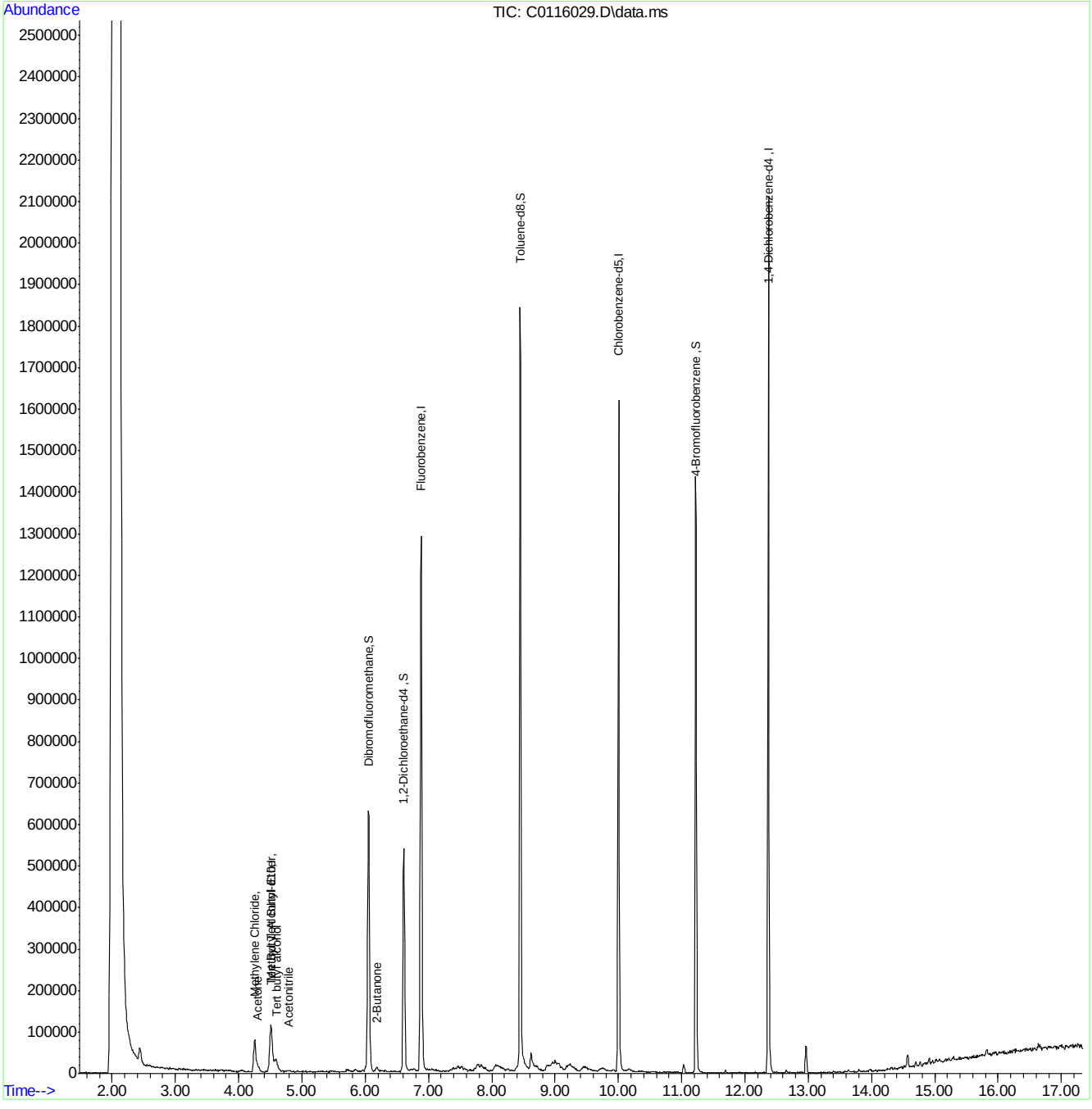
(#) = qualifier out of range (m) = manual integration (+) = signals summed

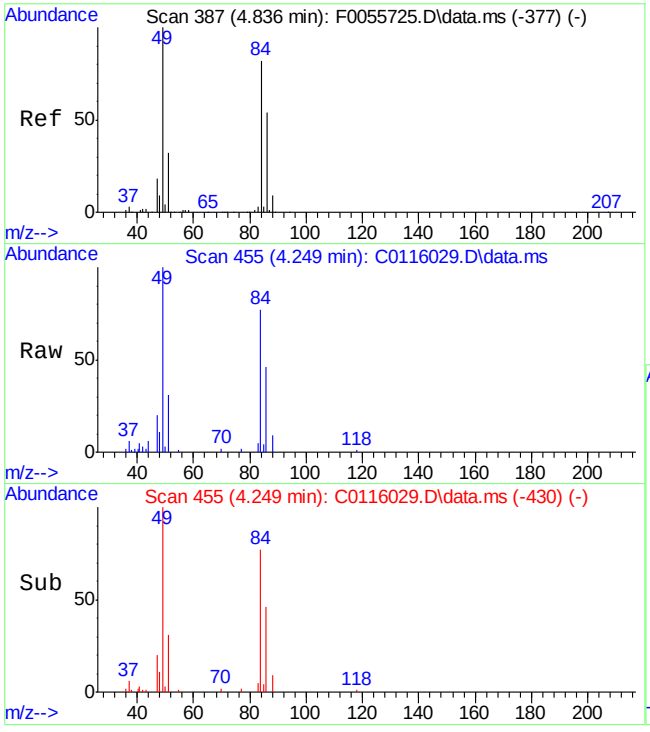
SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116029.D
Acq On : 1 Jun 2016 12:06 pm
Operator : ericp
Sample : FA34367-2 MA Inst : MSVOA5
Misc : ms34045,vc4610,5.31,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 01 13:02:34 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

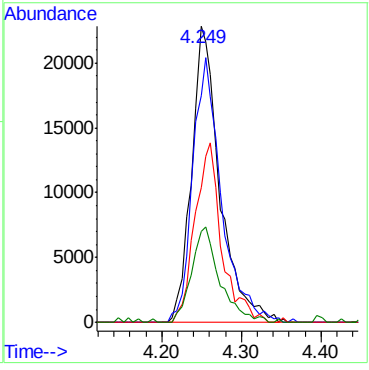


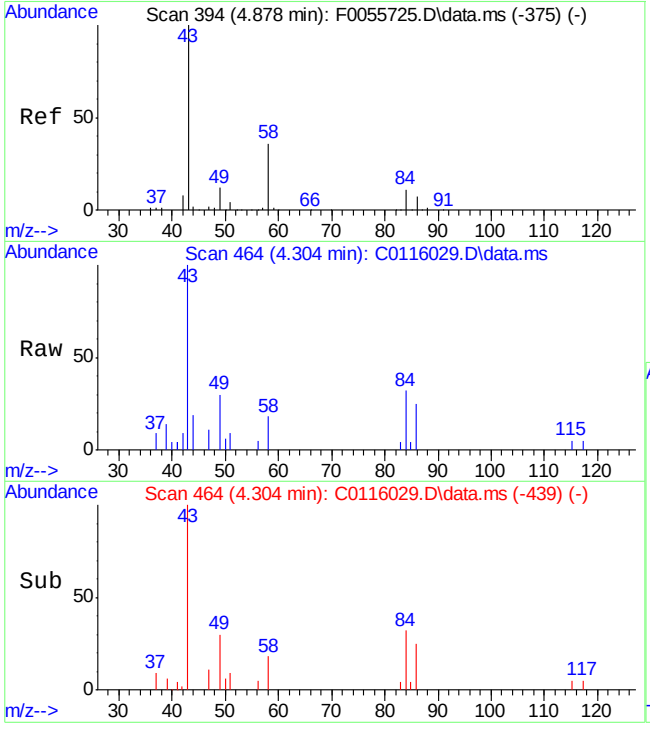


#15
Methylene Chloride
Concen: 7.59 ug/Kg
RT: 4.249 min Scan# 455
Delta R.T. 0.000 min
Lab File: C0116029.D
Acq: 1 Jun 2016 12:06 pm

Tgt Ion: 49 Resp: 56358

Ion	Ratio	Lower	Upper
49	100		
84	76.6	56.3	116.3
86	45.6	25.6	85.6
51	30.9	1.6	61.6

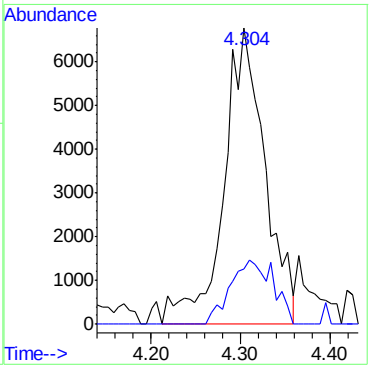


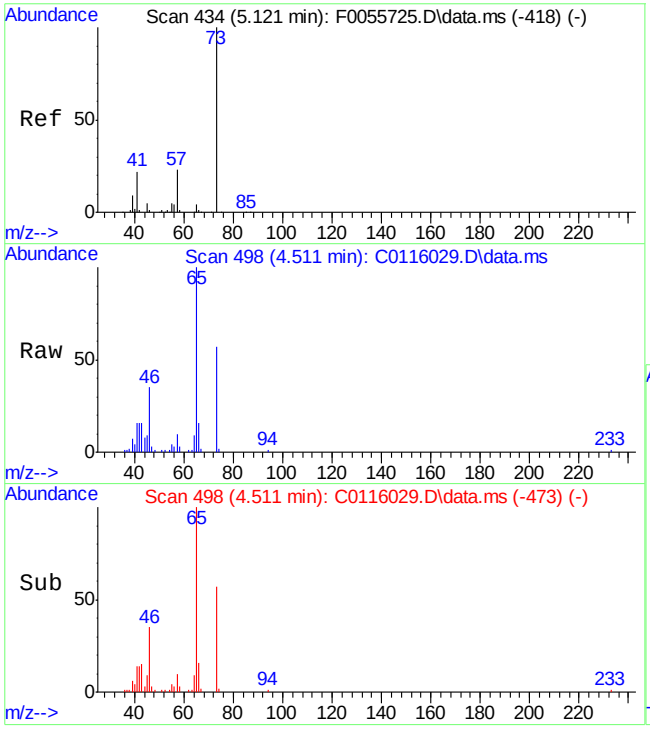


#16
Acetone
Concen: 15.37 ug/Kg
RT: 4.304 min Scan# 464
Delta R.T. 0.000 min
Lab File: C0116029.D
Acq: 1 Jun 2016 12:06 pm

Tgt Ion: 43 Resp: 21610

Ion	Ratio	Lower	Upper
43	100		
58	18.5	4.8	44.8

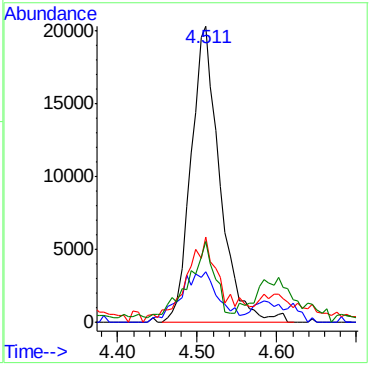


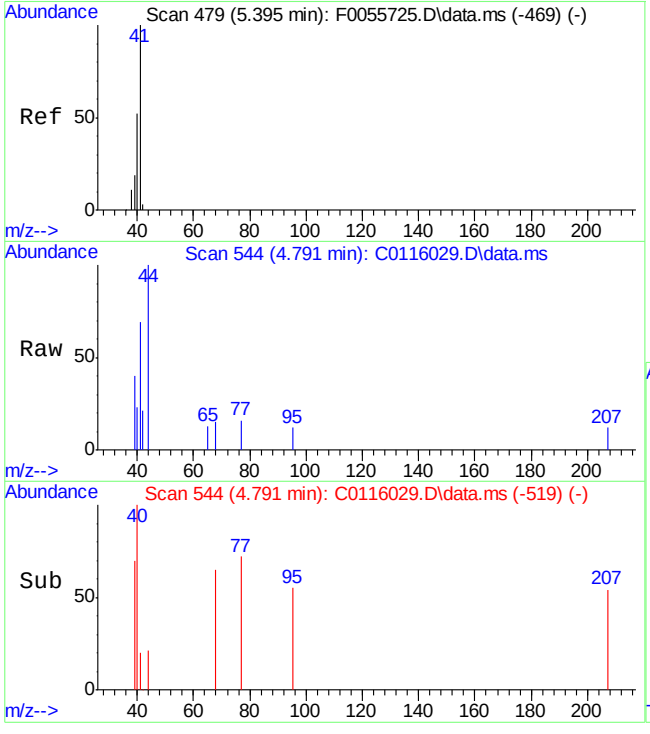


#20
Methyl Tert Butyl Ether
Concen: 2.65 ug/Kg
RT: 4.511 min Scan# 498
Delta R.T. -0.000 min
Lab File: C0116029.D
Acq: 1 Jun 2016 12:06 pm

Tgt Ion: 73 Resp: 50938

Ion	Ratio	Lower	Upper
73	100		
57	15.4	0.0	50.2
43	24.5	0.0	56.1
41	24.8	0.0	52.7

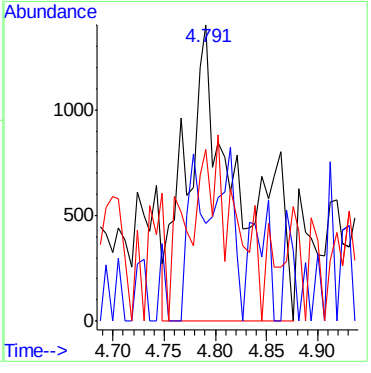


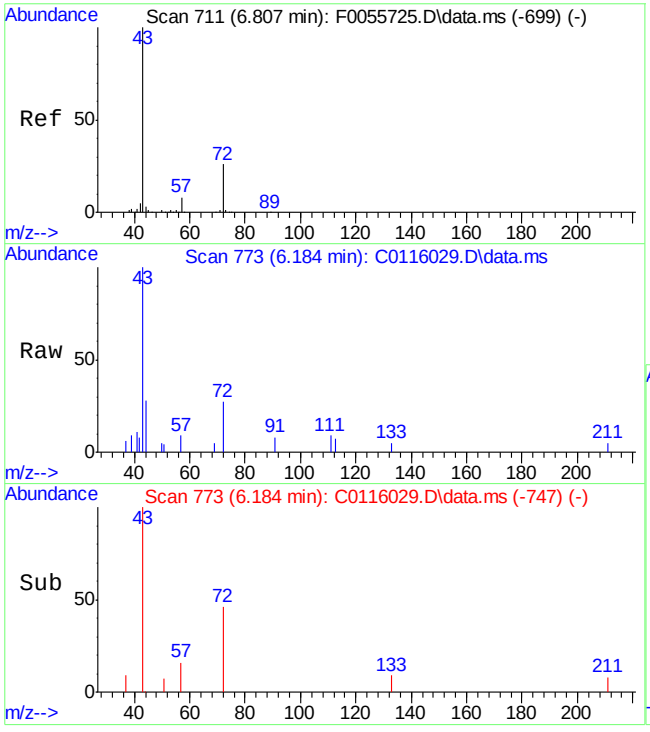


#21
Acetonitrile
Concen: 17.62 ug/Kg
RT: 4.791 min Scan# 544
Delta R.T. -0.000 min
Lab File: C0116029.D
Acq: 1 Jun 2016 12:06 pm

Tgt Ion: 41 Resp: 5106

Ion	Ratio	Lower	Upper
41	100		
40	9.0	28.5	88.5#
39	19.1	0.0	53.5

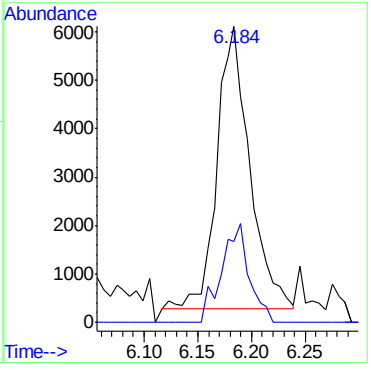


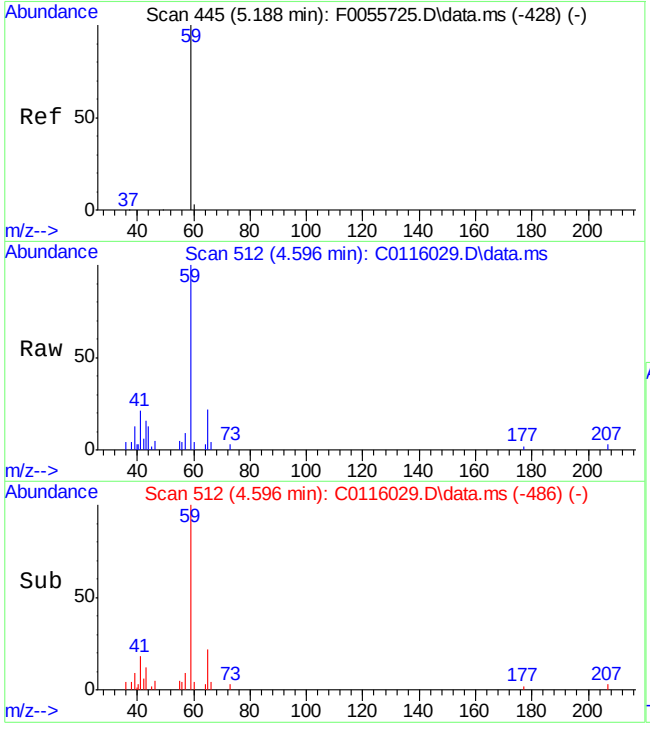


#38
2-Butanone
Concen: 7.30 ug/Kg
RT: 6.184 min Scan# 773
Delta R.T. 0.006 min
Lab File: C0116029.D
Acq: 1 Jun 2016 12:06 pm

Tgt Ion: 43 Resp: 12351

Ion	Ratio	Lower	Upper
43	100		
72	28.7	0.0	55.9

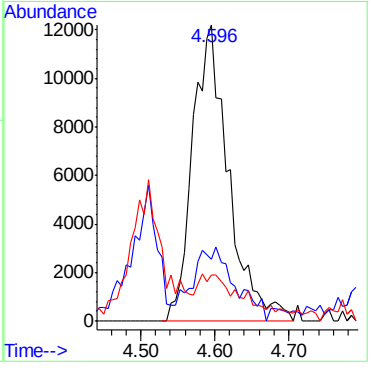




#106
Tert butyl alcohol
Concen: 56.97 ug/Kg
RT: 4.596 min Scan# 512
Delta R.T. 0.006 min
Lab File: C0116029.D
Acq: 1 Jun 2016 12:06 pm

Tgt Ion: 59 Resp: 40394

Ion	Ratio	Lower	Upper
59	100		
41	17.5	0.0	50.3
43	12.7	0.0	49.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116030.D
Acq On : 1 Jun 2016 12:32 pm
Operator : ericp
Sample : FA34367-3 MA Inst : MSVOA5
Misc : ms34045,vc4610,5.16,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 01 13:03:22 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	922989	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	656739	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	417475	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.517	65	121464	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	346323	59.14	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 118.28%			
44) 1,2-Dichloroethane-d4	6.610	65	362585	56.19	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 112.38%			
55) Toluene-d8	8.453	98	884269	47.18	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 94.36%			
77) 4-Bromofluorobenzene	11.227	174	285667	42.96	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 85.92%			
Target Compounds						Qvalue
15) Methylene Chloride	4.255	49	25534	3.96	ug/Kg	85
20) Methyl Tert Butyl Ether	4.511	73	38530	2.32	ug/Kg	92
38) 2-Butanone	6.184	43	9150	6.26	ug/Kg	96
106) Tert butyl alcohol	4.596	59	32257	49.39	ug/Kg	88

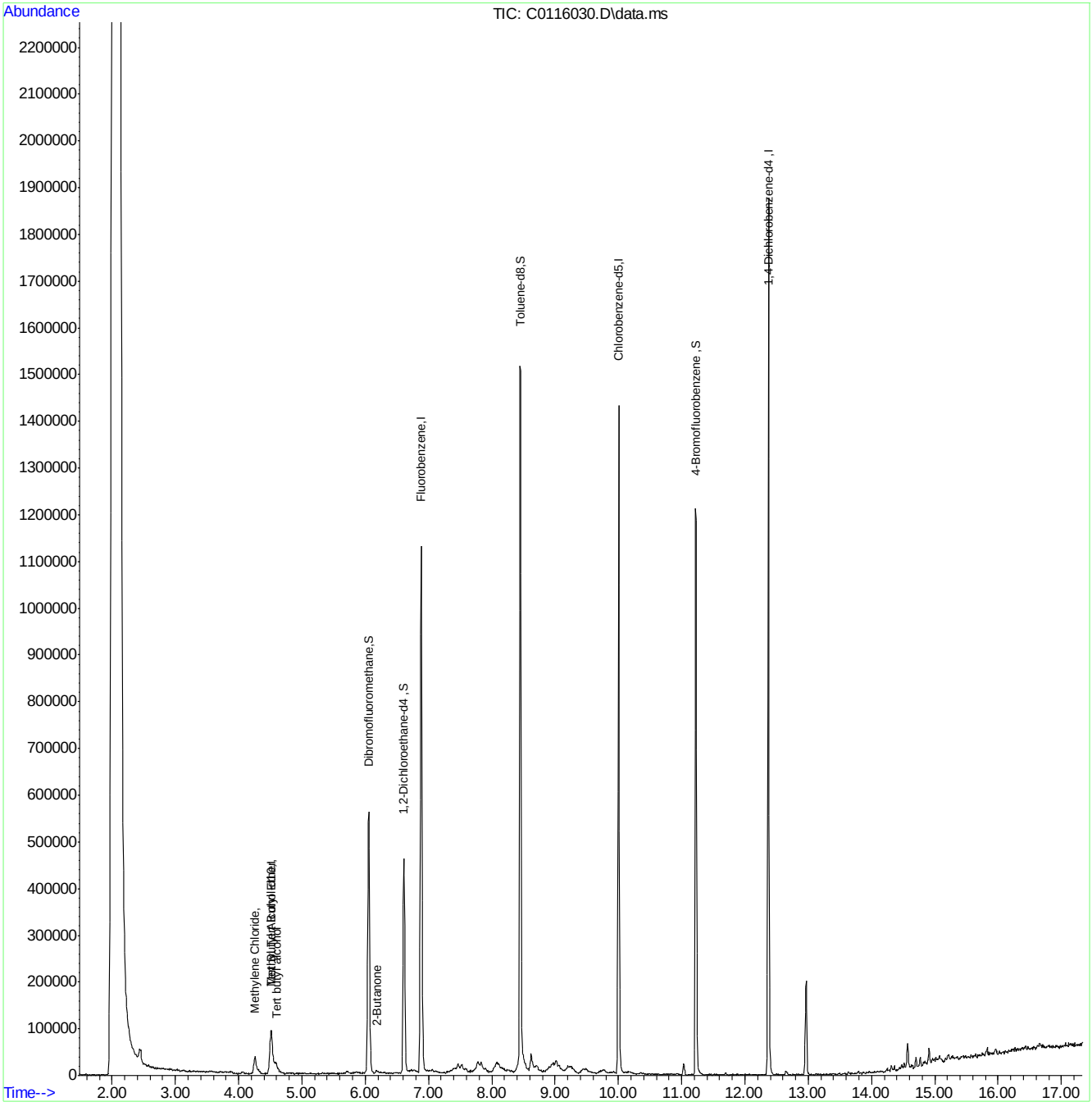
(#) = qualifier out of range (m) = manual integration (+) = signals summed

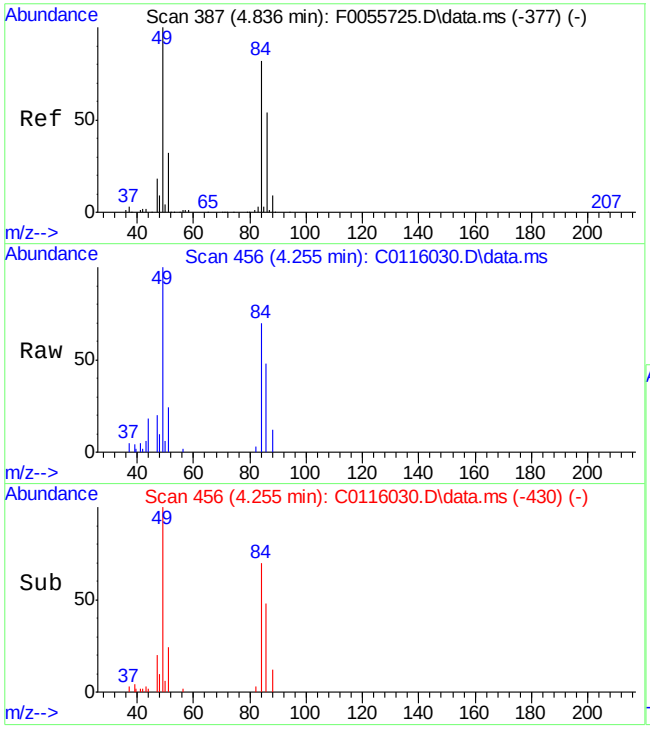
SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116030.D
Acq On : 1 Jun 2016 12:32 pm
Operator : ericp
Sample : FA34367-3 MA Inst : MSVOA5
Misc : ms34045,vc4610,5.16,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 01 13:03:22 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

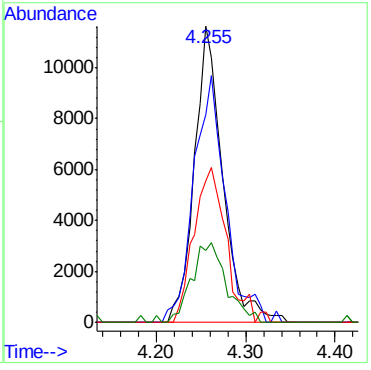


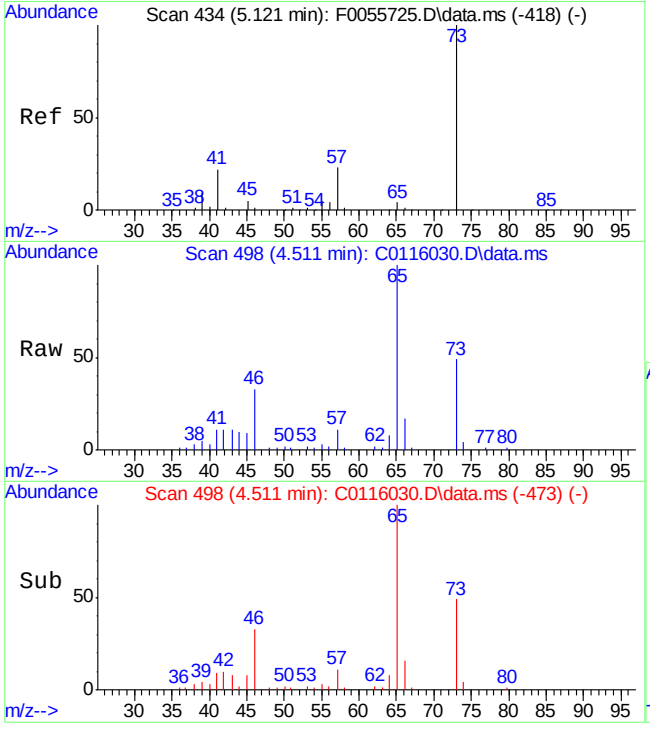


#15
Methylene Chloride
Concen: 3.96 ug/Kg
RT: 4.255 min Scan# 456
Delta R.T. 0.006 min
Lab File: C0116030.D
Acq: 1 Jun 2016 12:32 pm

Tgt Ion: 49 Resp: 25534

Ion	Ratio	Lower	Upper
49	100		
84	70.0	56.3	116.3
86	47.8	25.6	85.6
51	24.2	1.6	61.6

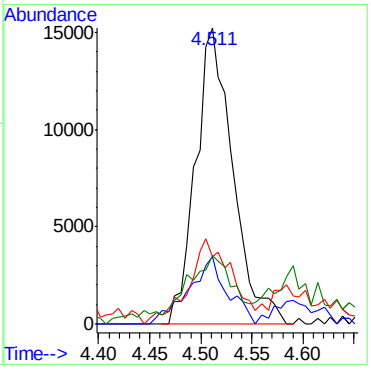


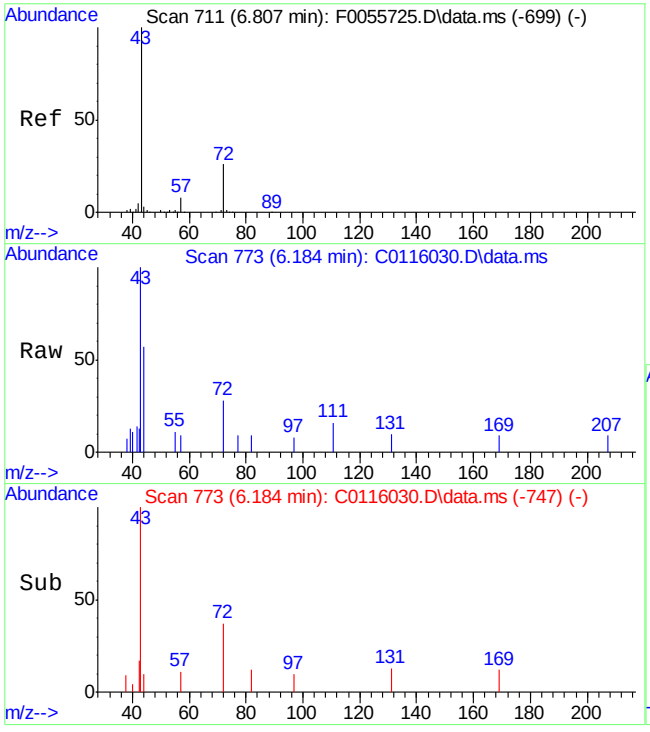


#20
Methyl Tert Butyl Ether
Concen: 2.32 ug/Kg
RT: 4.511 min Scan# 498
Delta R.T. -0.000 min
Lab File: C0116030.D
Acq: 1 Jun 2016 12:32 pm

Tgt Ion: 73 Resp: 38530

Ion	Ratio	Lower	Upper
73	100		
57	18.2	0.0	50.2
43	19.7	0.0	56.1
41	20.2	0.0	52.7

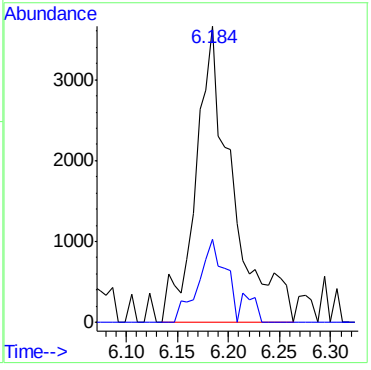


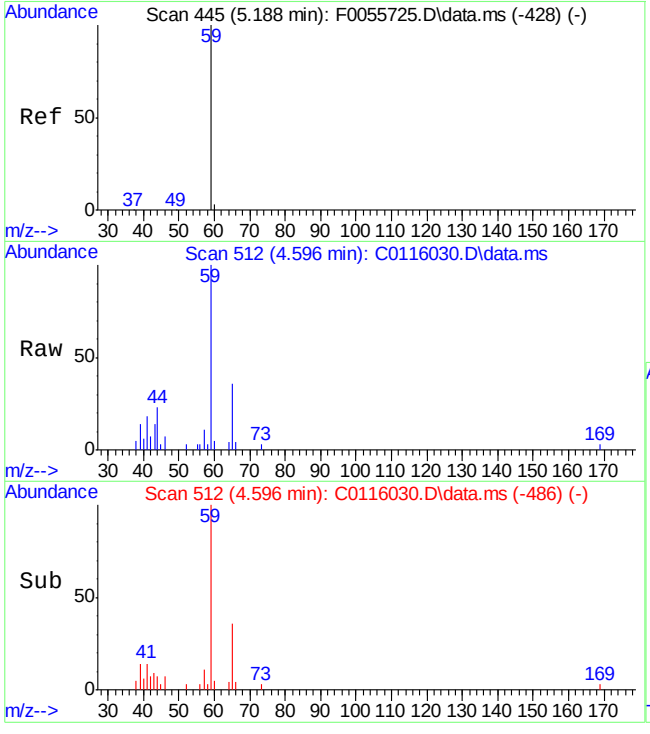


#38
2-Butanone
Concen: 6.26 ug/Kg
RT: 6.184 min Scan# 773
Delta R.T. 0.006 min
Lab File: C0116030.D
Acq: 1 Jun 2016 12:32 pm

Tgt Ion: 43 Resp: 9150

Ion	Ratio	Lower	Upper
43	100		
72	28.2	0.0	55.9

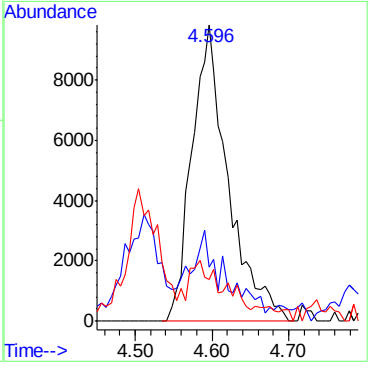




#106
Tert butyl alcohol
Concen: 49.39 ug/Kg
RT: 4.596 min Scan# 512
Delta R.T. 0.006 min
Lab File: C0116030.D
Acq: 1 Jun 2016 12:32 pm

Tgt Ion: 59 Resp: 32257

Ion	Ratio	Lower	Upper
59	100		
41	14.2	0.0	50.3
43	14.0	0.0	49.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976947.D
Acq On : 1 Jun 2016 12:07 pm
Operator : darshnap
Sample : fa34367-4 ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 13:57:18 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1239981	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	943610	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	479427	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.286	65	77710	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	309522	49.31	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.62%			
46) 1,2-Dichloroethane-d4	7.476	65	353980	50.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.04%			
57) Toluene-d8	9.301	98	1237676	51.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.74%			
79) 4-Bromofluorobenzene	12.051	95	467796	52.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.88%			
Target Compounds						Qvalue
13) Carbon Disulfide	4.471	76	16366	0.67	ug/L	99
21) Methyl Tert Butyl Ether	5.328	73	1583562	85.54	ug/L	85
32) Cyclohexane	6.734	56	5767	0.49	ug/L #	86
35) Tetrahydrofuran	6.916	42	12785	11.09	ug/L	93
66) 1,3-Dichloropropane	10.189	76	5429	0.57	ug/L	87
73) m,p-Xylene	11.004	91	15769	0.55	ug/L	92
77) Isopropylbenzene	11.747	105	49977	1.68	ug/L	96
81) n-Propylbenzene	12.166	91	15493	0.46	ug/L	93
109) Tert Butyl Alcohol	5.371	59	562579	1853.33	ug/L	90

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

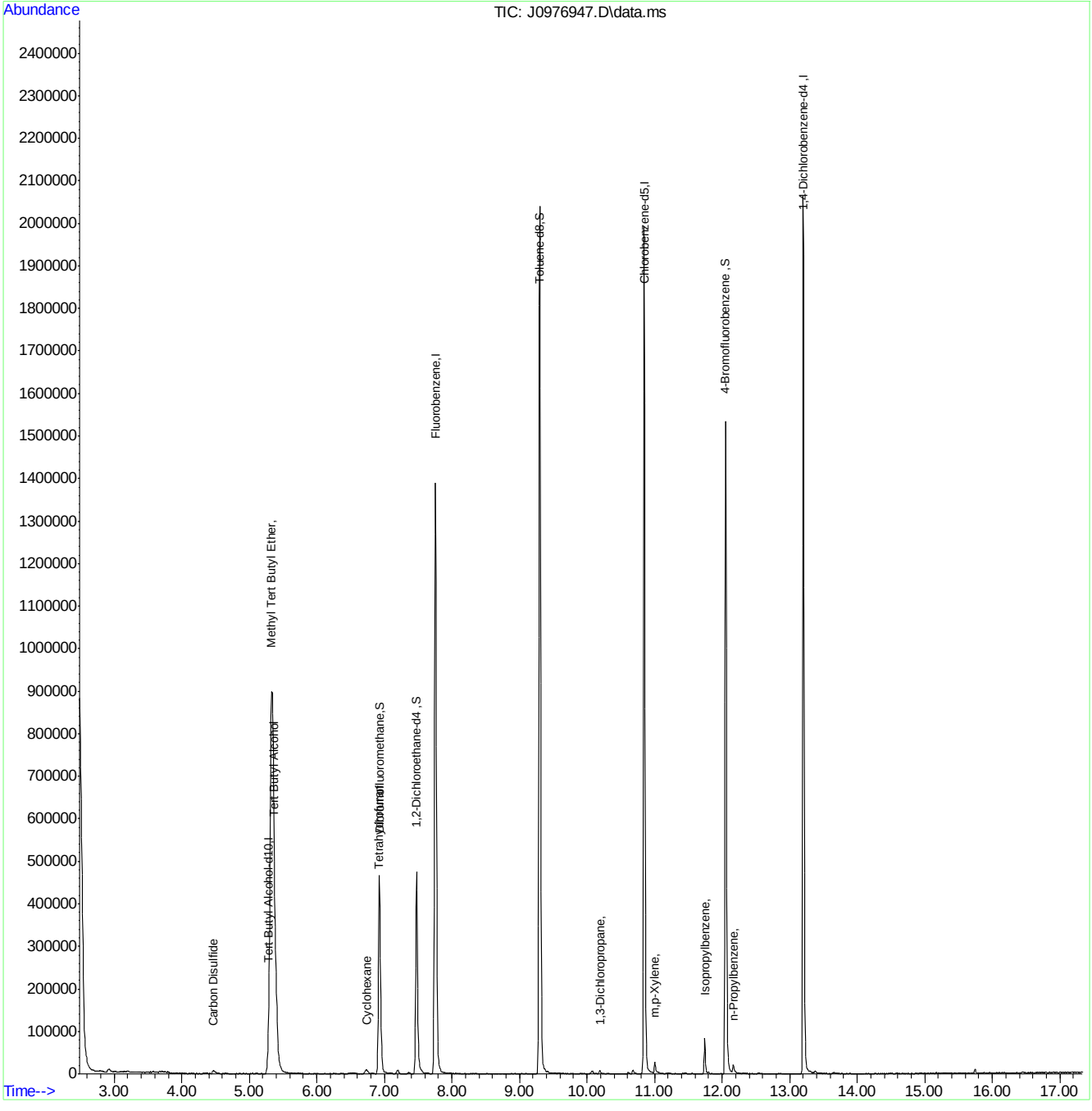
7.1.4

7

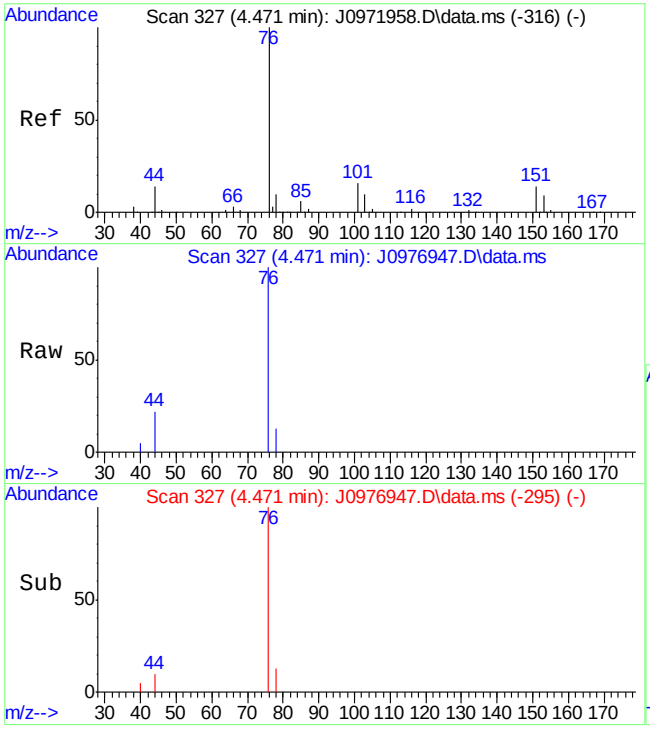
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976947.D
Acq On : 1 Jun 2016 12:07 pm
Operator : darshnap
Sample : fa34367-4 ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 13:57:18 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



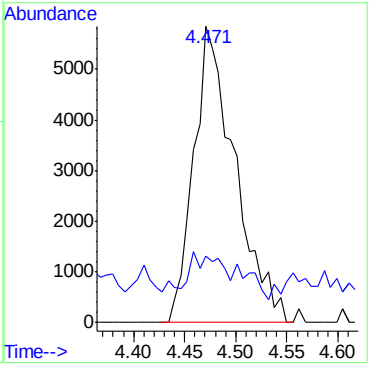
MSJ052316a.M Thu Jun 02 08:35:50 2016 Page: 2

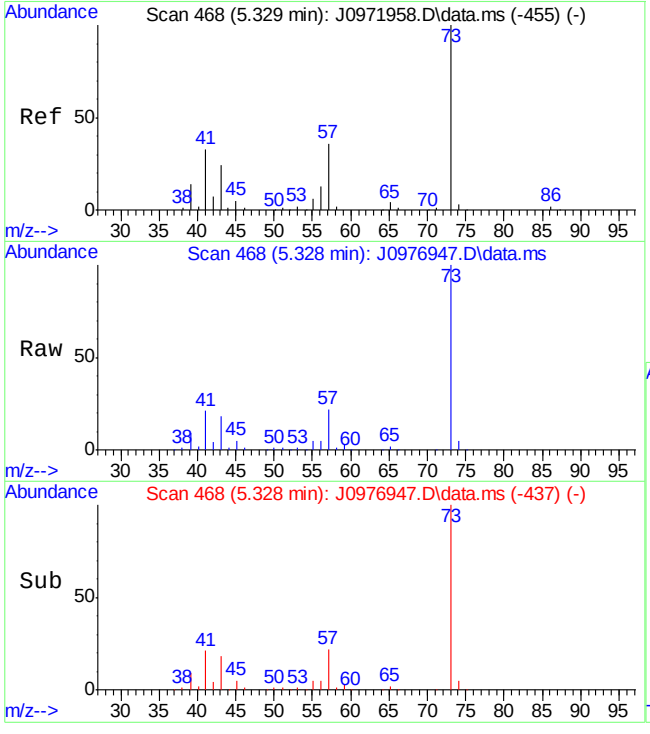


#13
Carbon Disulfide
Concen: 0.67 ug/L
RT: 4.471 min Scan# 327
Delta R.T. -0.006 min
Lab File: J0976947.D
Acq: 1 Jun 2016 12:07 pm

Tgt Ion: 76 Resp: 16366

Ion	Ratio	Lower	Upper
76	100		
44	12.2	0.0	41.7

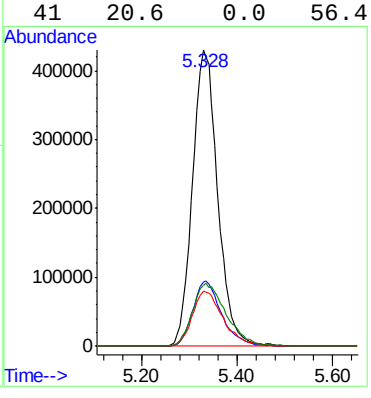




#21
Methyl Tert Butyl Ether
Concen: 85.54 ug/L
RT: 5.328 min Scan# 468
Delta R.T. -0.013 min
Lab File: J0976947.D
Acq: 1 Jun 2016 12:07 pm

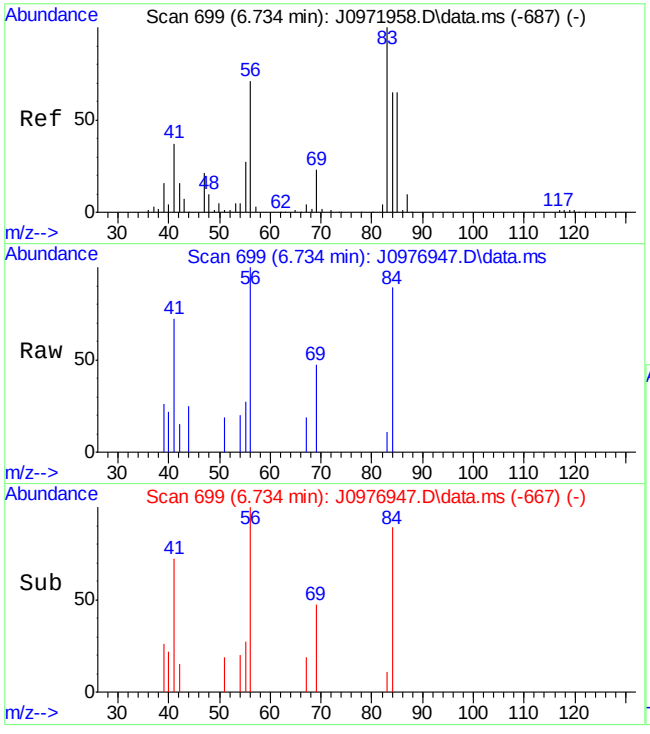
Tgt Ion: 73 Resp: 1583562

Ion	Ratio	Lower	Upper
73	100		
57	21.7	2.4	62.4
43	18.5	0.0	55.1
41	20.6	0.0	56.4



7.1.4

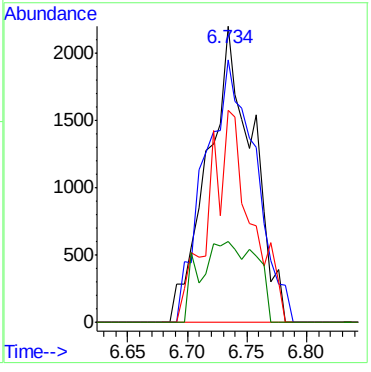
7

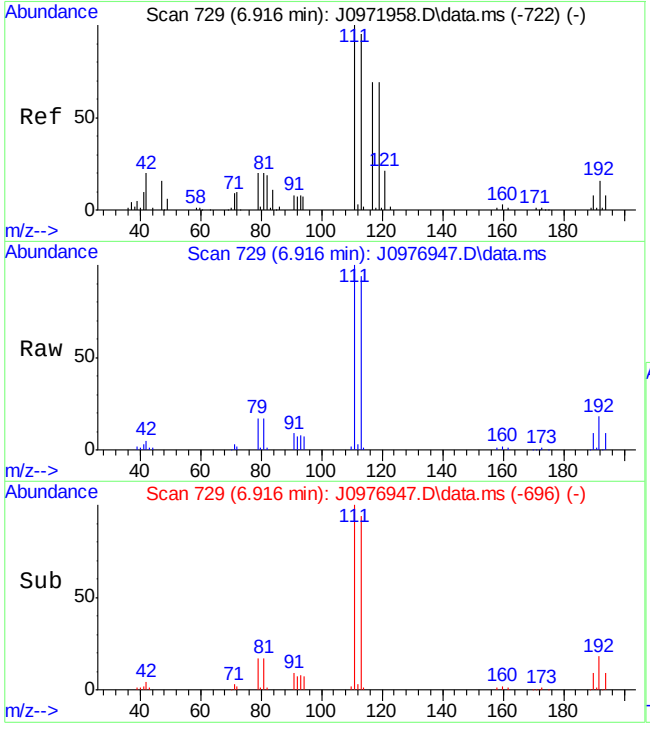


#32
Cyclohexane
Concen: 0.49 ug/L
RT: 6.734 min Scan# 699
Delta R.T. -0.006 min
Lab File: J0976947.D
Acq: 1 Jun 2016 12:07 pm

Tgt Ion: 56 Resp: 5767

Ion	Ratio	Lower	Upper
56	100		
84	88.8	71.5	111.5
41	71.7	27.1	67.1#
55	27.2	14.2	54.2

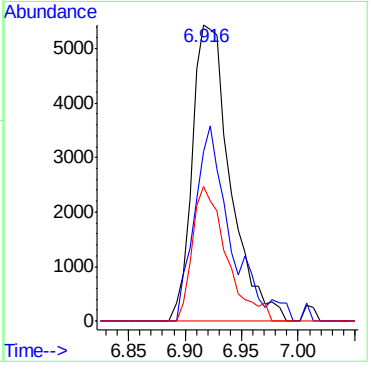




#35
Tetrahydrofuran
Concen: 11.09 ug/L
RT: 6.916 min Scan# 729
Delta R.T. 0.000 min
Lab File: J0976947.D
Acq: 1 Jun 2016 12:07 pm

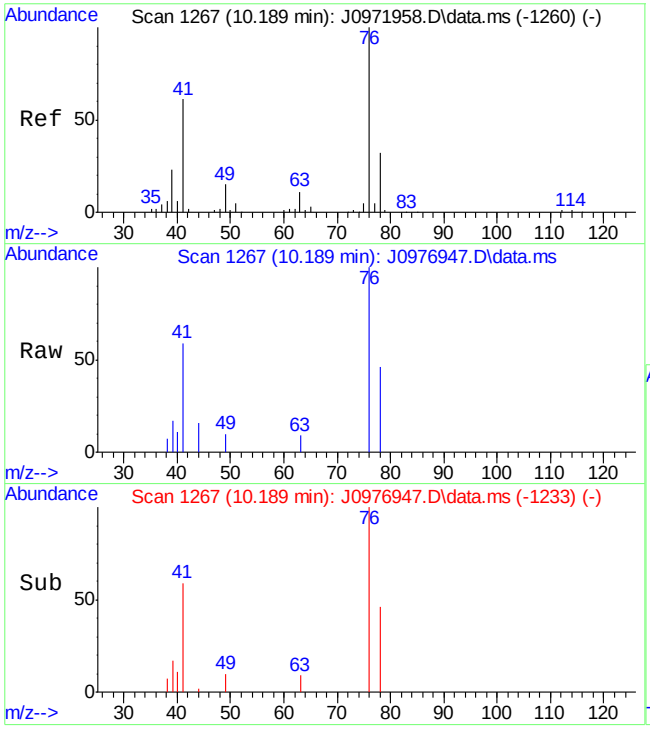
Tgt Ion: 42 Resp: 12785

Ion	Ratio	Lower	Upper
42	100		
41	57.1	43.0	83.0
72	45.7	30.4	70.4



7.1.4

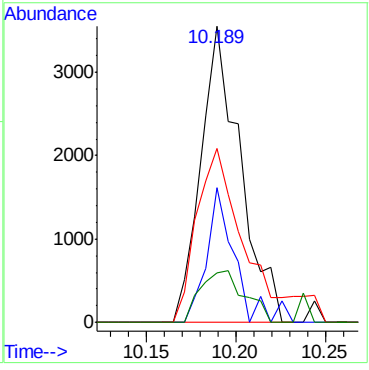
7

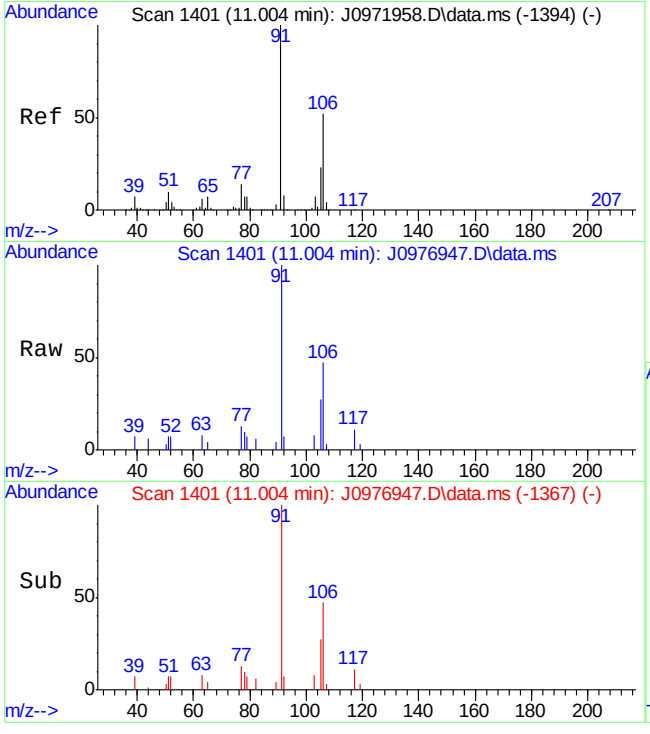


#66
1,3-Dichloropropane
Concen: 0.57 ug/L
RT: 10.189 min Scan# 1267
Delta R.T. 0.006 min
Lab File: J0976947.D
Acq: 1 Jun 2016 12:07 pm

Tgt Ion: 76 Resp: 5429

Ion	Ratio	Lower	Upper
76	100		
78	45.6	2.9	62.9
41	58.8	21.9	81.9
39	16.6	0.0	48.3

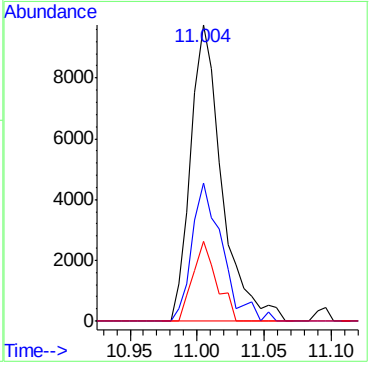


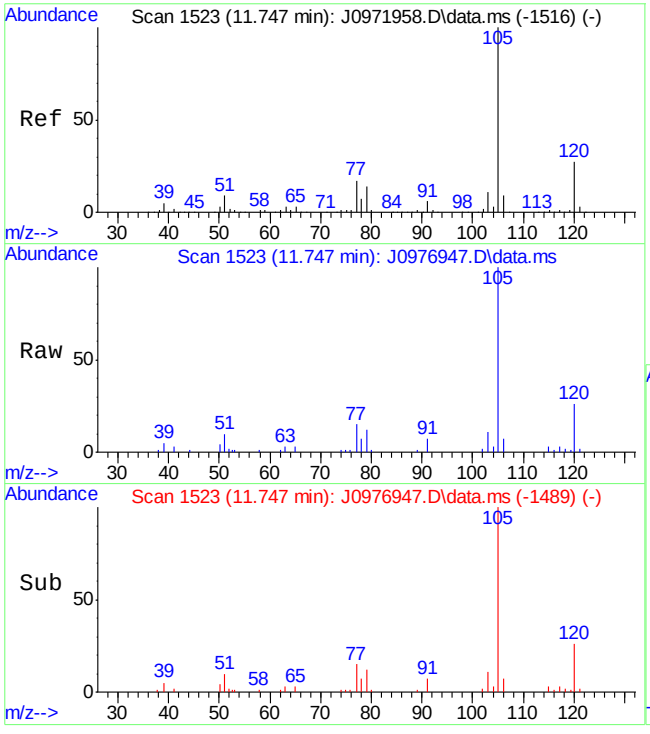


#73
m,p-Xylene
Concen: 0.55 ug/L
RT: 11.004 min Scan# 1401
Delta R.T. 0.006 min
Lab File: J0976947.D
Acq: 1 Jun 2016 12:07 pm

Tgt Ion: 91 Resp: 15769

Ion	Ratio	Lower	Upper
91	100		
106	46.8	23.8	83.8
105	26.8	0.0	54.2

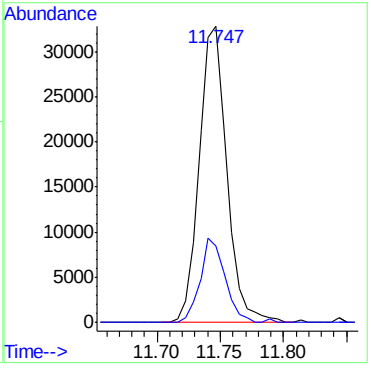


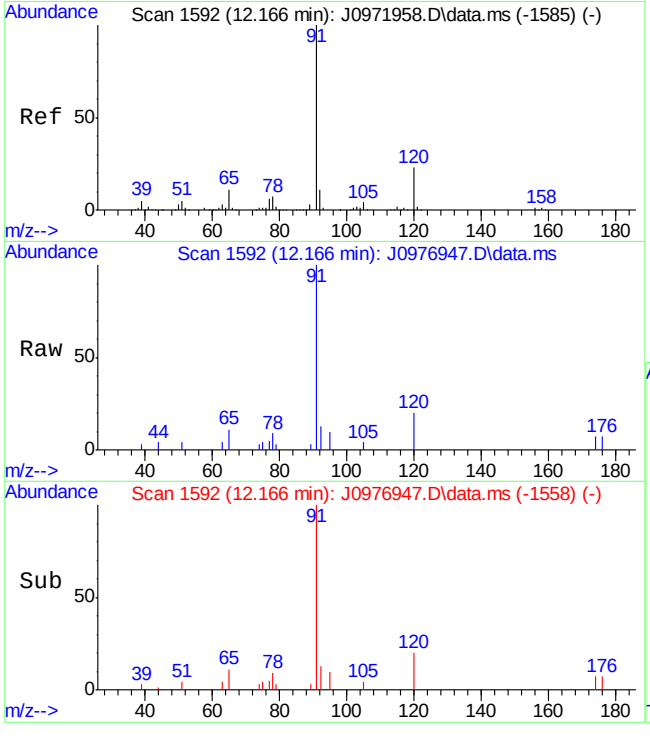


#77
Isopropylbenzene
Concen: 1.68 ug/L
RT: 11.747 min Scan# 1523
Delta R.T. 0.007 min
Lab File: J0976947.D
Acq: 1 Jun 2016 12:07 pm

Tgt Ion:105 Resp: 49977

Ion	Ratio	Lower	Upper
105	100		
120	26.0	0.0	58.1

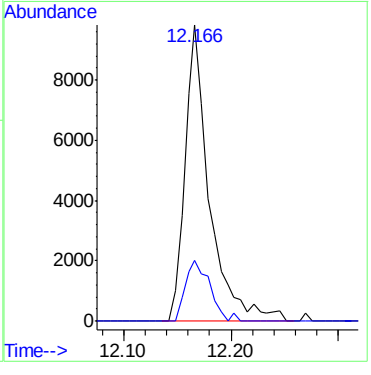


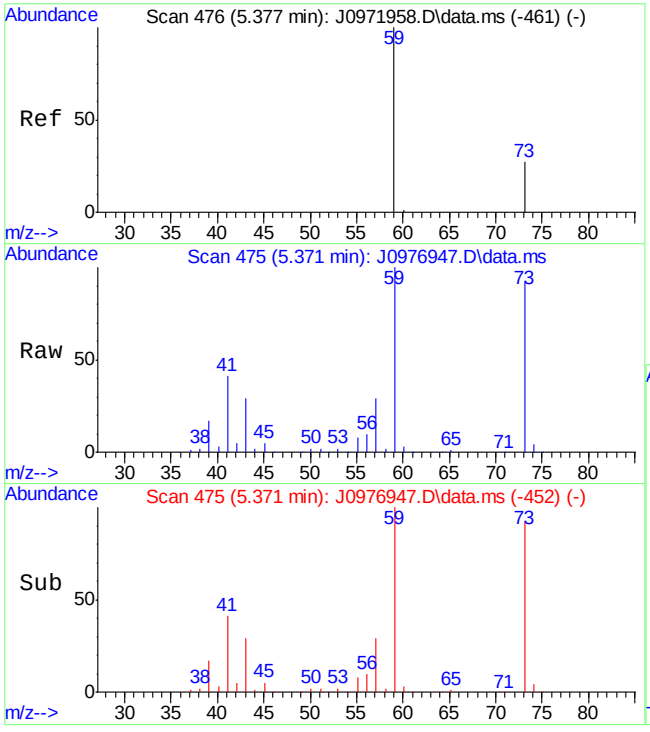


#81
n-Propylbenzene
Concen: 0.46 ug/L
RT: 12.166 min Scan# 1592
Delta R.T. 0.006 min
Lab File: J0976947.D
Acq: 1 Jun 2016 12:07 pm

Tgt Ion: 91 Resp: 15493

Ion	Ratio	Lower	Upper
91	100		
120	20.5	0.0	54.0

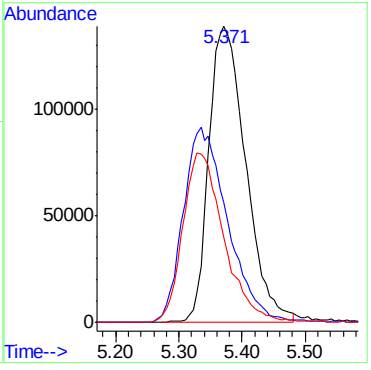




#109
Tert Butyl Alcohol
Concen: 1853.33 ug/L
RT: 5.371 min Scan# 475
Delta R.T. -0.012 min
Lab File: J0976947.D
Acq: 1 Jun 2016 12:07 pm

Tgt Ion: 59 Resp: 562579

Ion	Ratio	Lower	Upper
59	100		
41	39.9	26.6	66.6
43	28.4	13.9	53.9

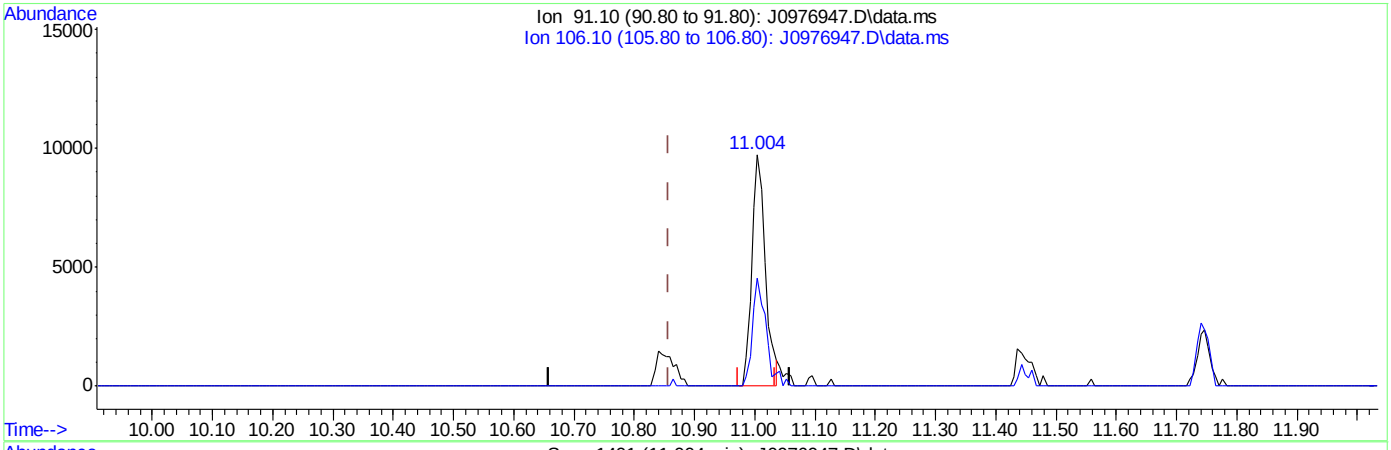


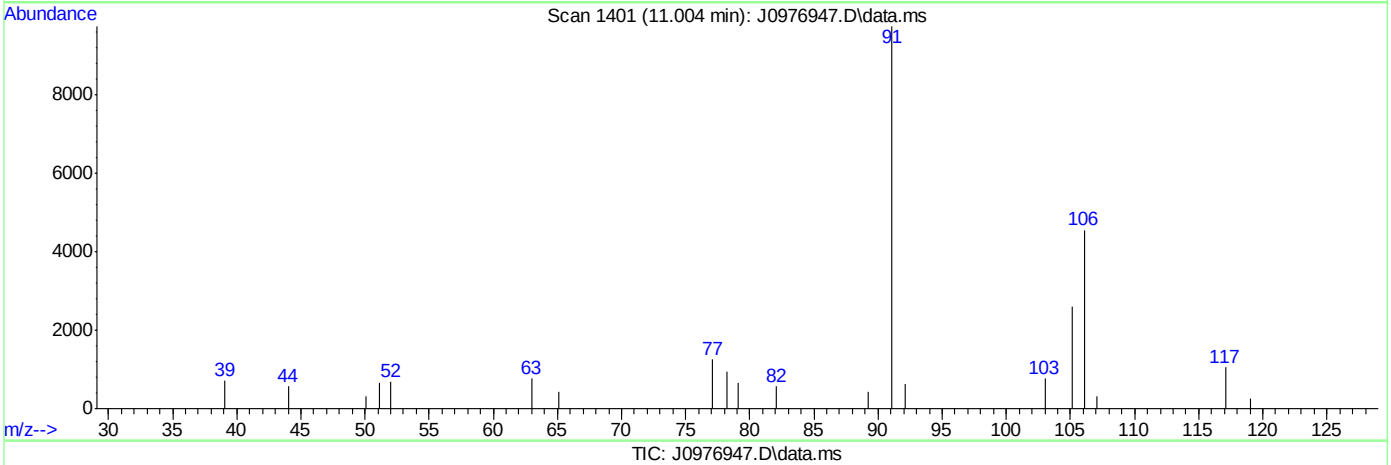
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976947.D
Acq On : 1 Jun 2016 12:07 pm
Operator : darshnap
Sample : fa34367-4 ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 13:52:43 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976947.D\data.ms

(70) Ethylbenzene (C)

11.004min (+0.146) 0.41ug/L

response 14968

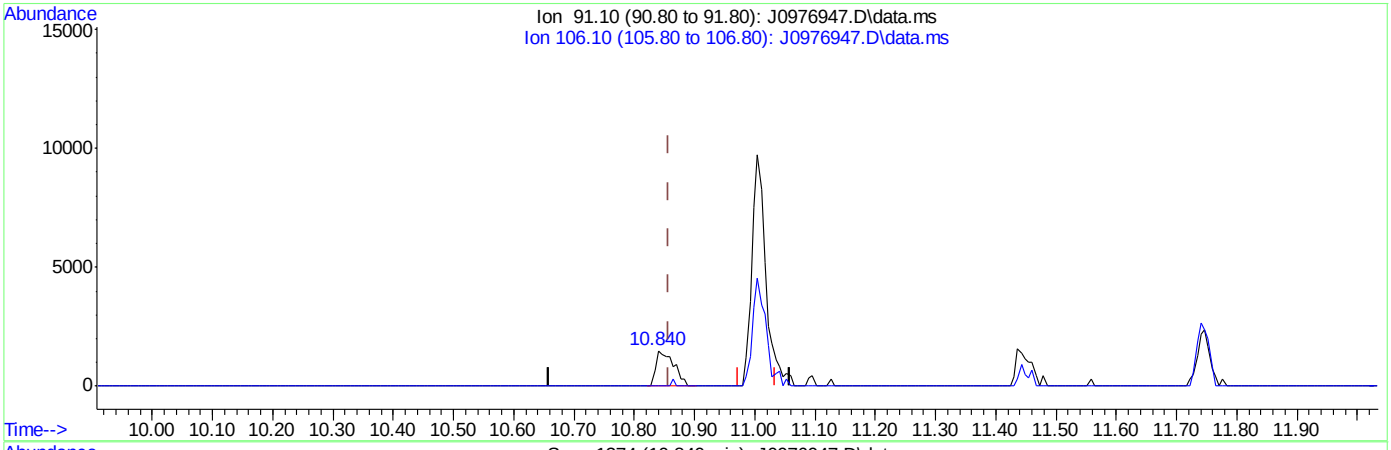
Ion	Exp%	Act%
91.10	100	100
106.10	32.80	46.76
0.00	0.00	0.00
0.00	0.00	0.00

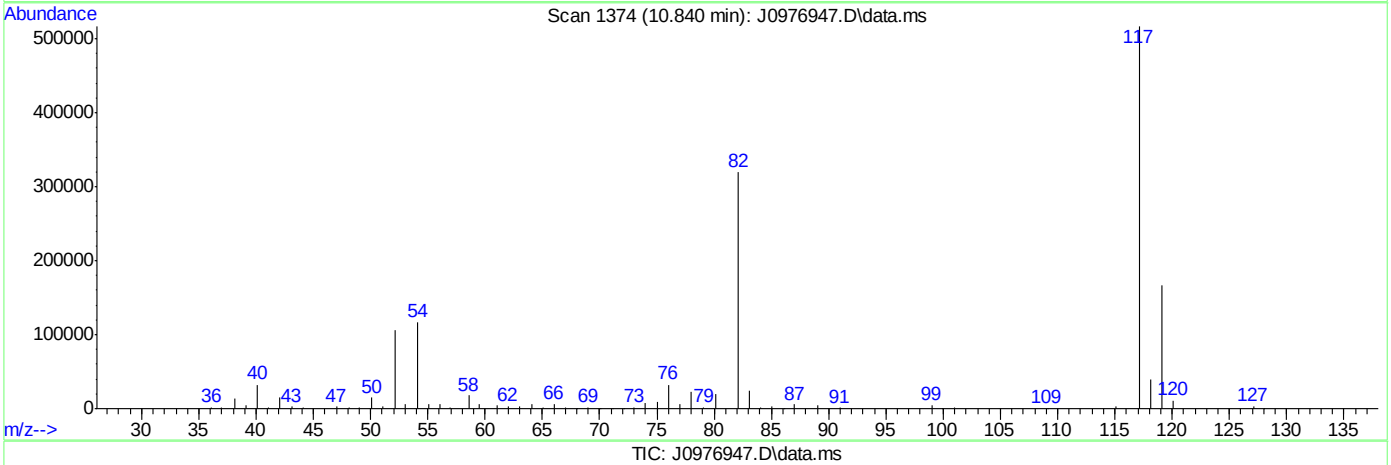
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976947.D
Acq On : 1 Jun 2016 12:07 pm
Operator : darshnap
Sample : fa34367-4 ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 13:52:43 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976947.D\data.ms

(70) Ethylbenzene (C)

10.840min (-0.018) 0.08ug/L m

response 3021

Ion	Exp%	Act%
91.10	100	100
106.10	32.80	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976974.D
Acq On : 2 Jun 2016 11:01 am
Operator : darshnap
Sample : fa34367-4 ma Inst : MSVOA6
Misc : MS34051,VJ5326,,,,,10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 12:34:21 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

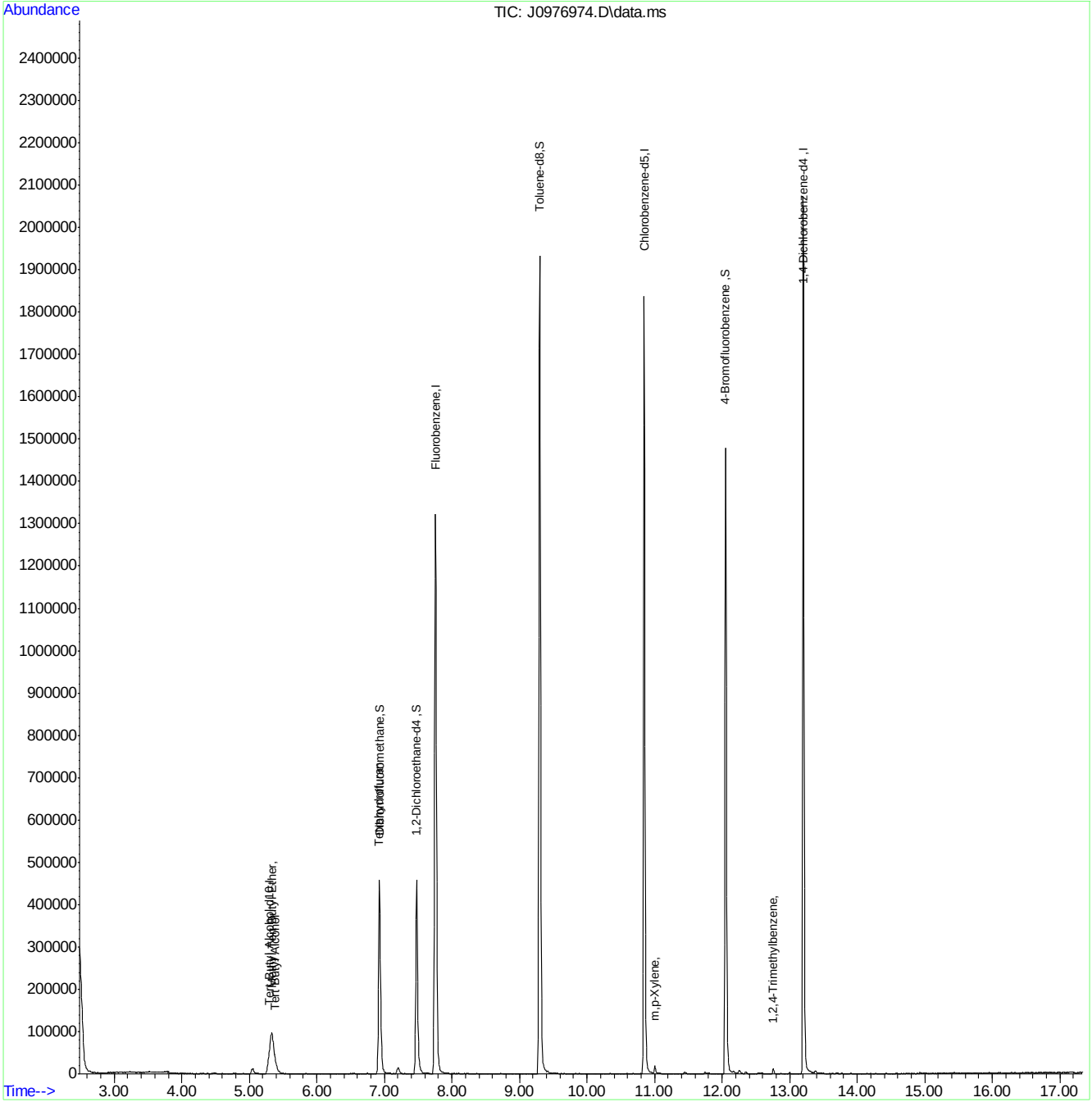
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1182119	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	889071	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.200	152	468779	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	68492	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	296854	49.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.22%			
46) 1,2-Dichloroethane-d4	7.476	65	346001	51.29	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.58%			
57) Toluene-d8	9.301	98	1200461	53.40	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.80%			
79) 4-Bromofluorobenzene	12.051	95	448962	51.96	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.92%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.334	73	137131	7.77	ug/L	85
35) Tetrahydrofuran	6.922	42	1037	0.94	ug/L	91
73) m,p-Xylene	11.004	91	11278	0.42	ug/L	88
92) 1,2,4-Trimethylbenzene	12.756	105	7853	0.32	ug/L	87
109) Tert Butyl Alcohol	5.377	59	47723	132.98	ug/L	80

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

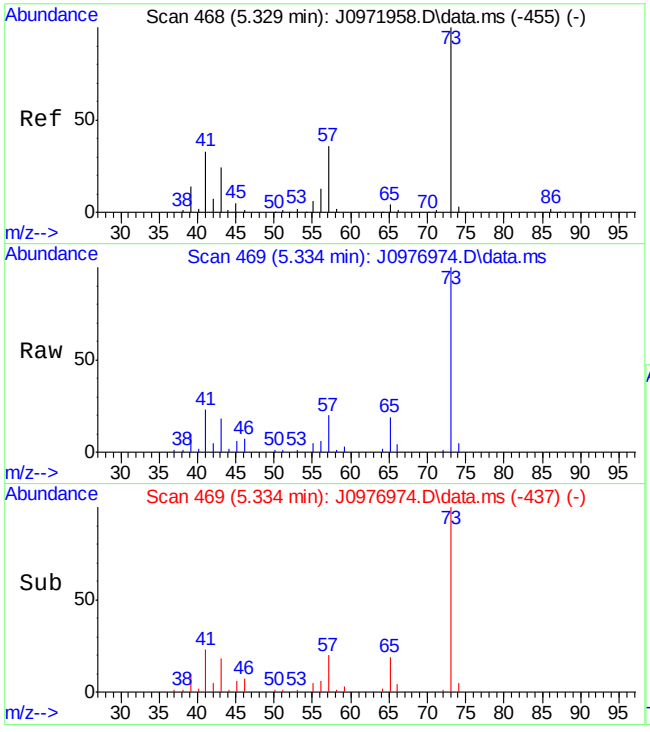
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976974.D
Acq On : 2 Jun 2016 11:01 am
Operator : darshnap
Sample : fa34367-4 ma Inst : MSVOA6
Misc : MS34051,VJ5326,,,,,10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 12:34:21 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



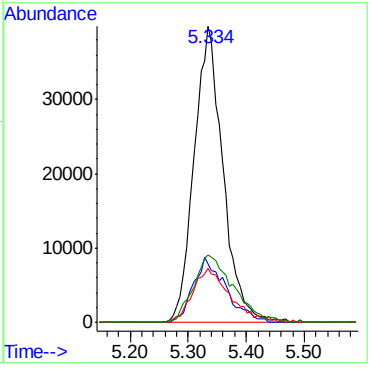
MSJ052316a.M Thu Jun 02 12:36:23 2016 Page: 2

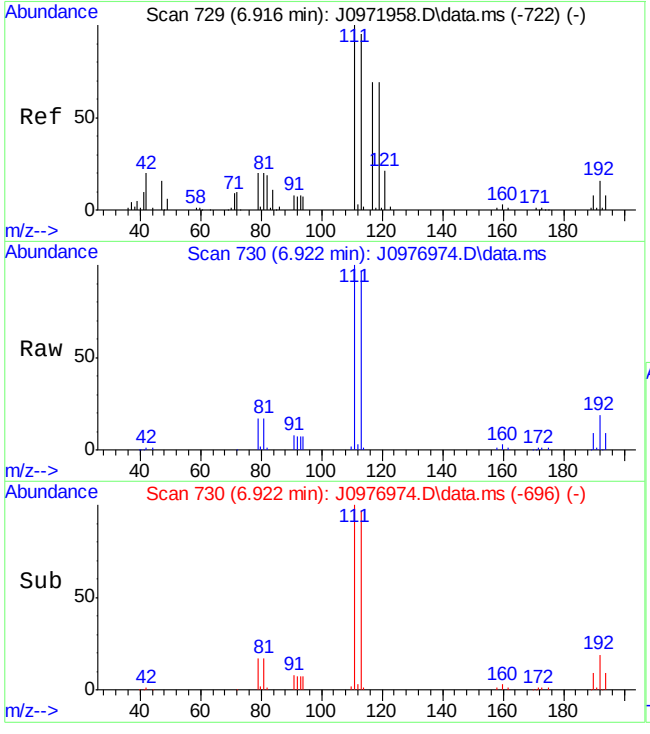


#21
Methyl Tert Butyl Ether
Concen: 7.77 ug/L
RT: 5.334 min Scan# 469
Delta R.T. -0.007 min
Lab File: J0976974.D
Acq: 2 Jun 2016 11:01 am

Tgt Ion: 73 Resp: 137131

Ion	Ratio	Lower	Upper
73	100		
57	19.6	2.4	62.4
43	18.1	0.0	55.1
41	22.7	0.0	56.4

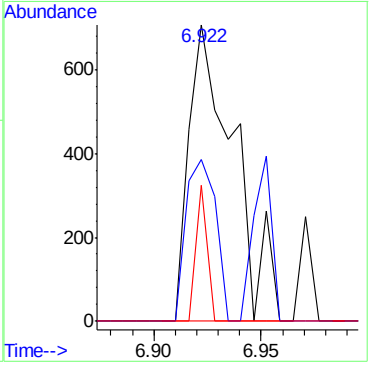




#35
Tetrahydrofuran
Concen: 0.94 ug/L
RT: 6.922 min Scan# 730
Delta R.T. 0.006 min
Lab File: J0976974.D
Acq: 2 Jun 2016 11:01 am

Tgt Ion: 42 Resp: 1037

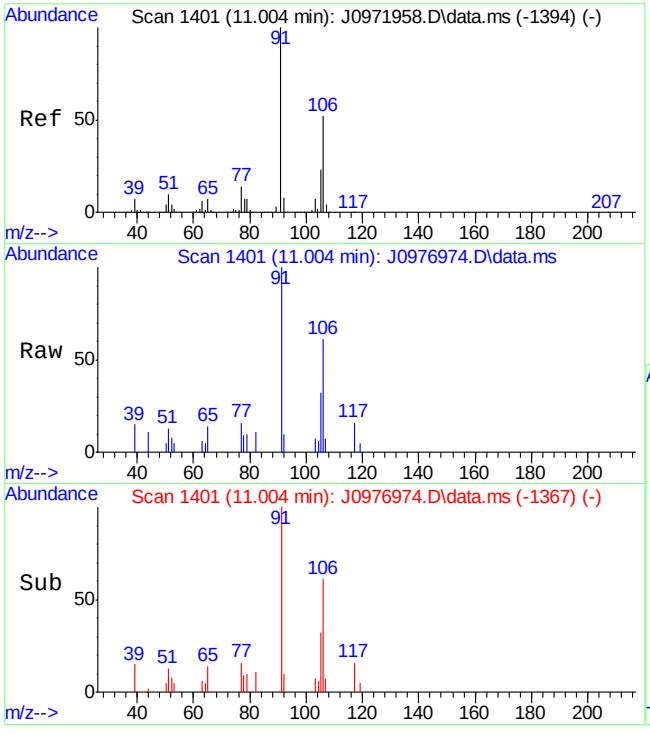
Ion	Ratio	Lower	Upper
42	100		
41	54.5	43.0	83.0
72	45.8	30.4	70.4



7.1.5

7

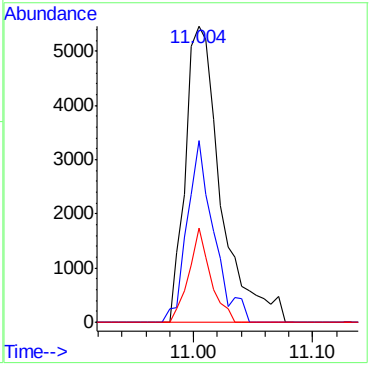
SGS ACCUTEST FA34367

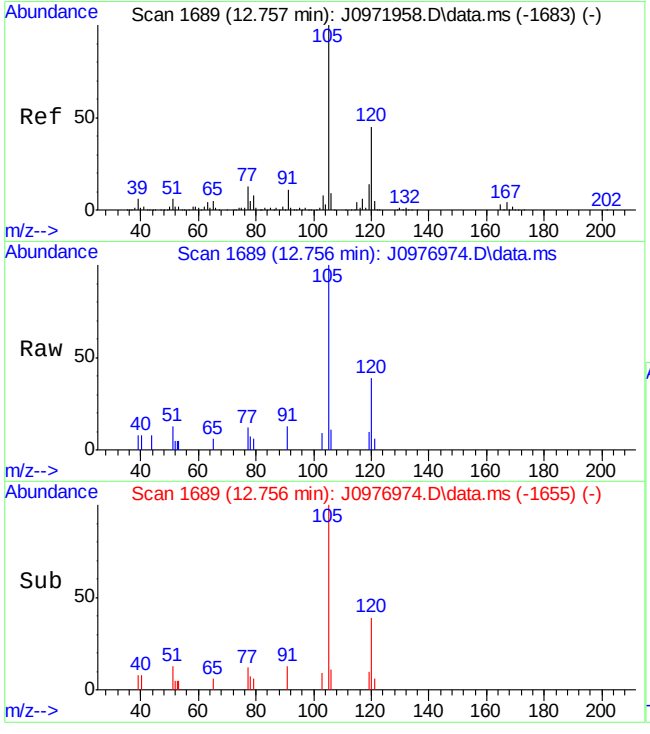


#73
m,p-Xylene
Concen: 0.42 ug/L
RT: 11.004 min Scan# 1401
Delta R.T. 0.006 min
Lab File: J0976974.D
Acq: 2 Jun 2016 11:01 am

Tgt Ion: 91 Resp: 11278

Ion	Ratio	Lower	Upper
91	100		
106	61.3	23.8	83.8
105	32.0	0.0	54.2

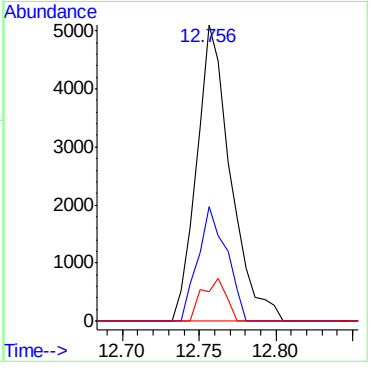


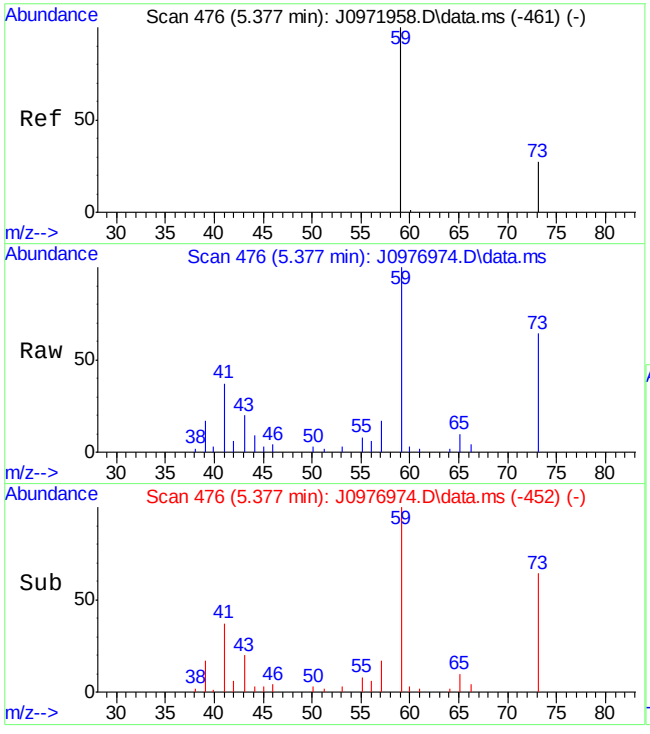


#92
1,2,4-Trimethylbenzene
Concen: 0.32 ug/L
RT: 12.756 min Scan# 1689
Delta R.T. 0.006 min
Lab File: J0976974.D
Acq: 2 Jun 2016 11:01 am

Tgt Ion:105 Resp: 7853

Ion	Ratio	Lower	Upper
105	100		
120	38.6	16.8	76.8
119	10.0	0.0	45.4

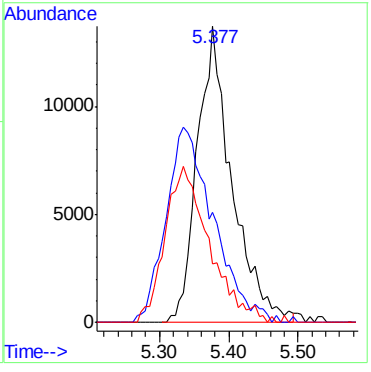




#109
Tert Butyl Alcohol
Concen: 132.98 ug/L
RT: 5.377 min Scan# 476
Delta R.T. -0.006 min
Lab File: J0976974.D
Acq: 2 Jun 2016 11:01 am

Tgt Ion: 59 Resp: 47723

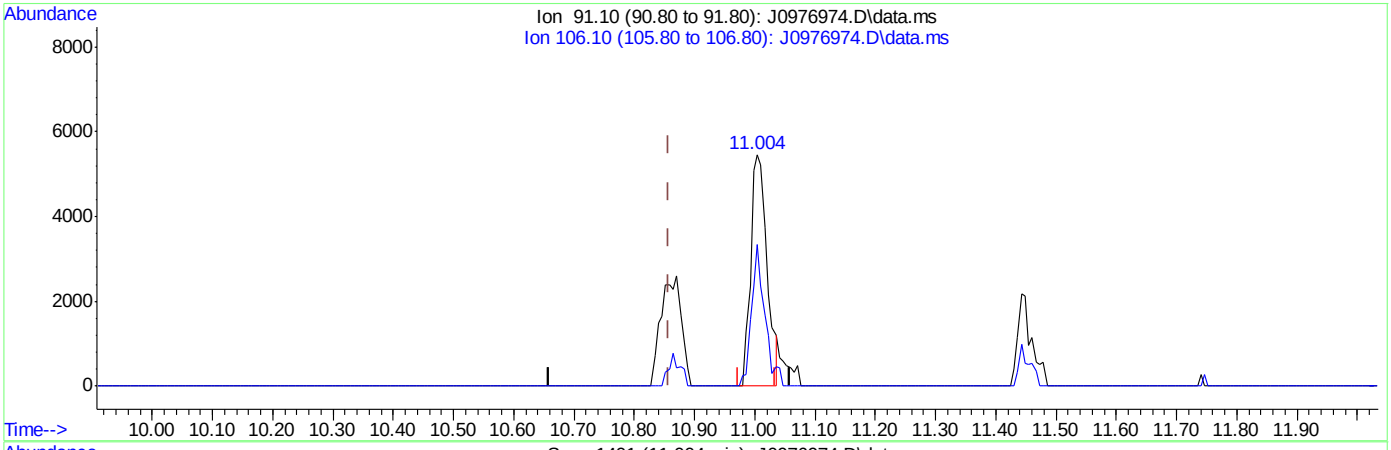
Ion	Ratio	Lower	Upper
59	100		
41	35.2	26.6	66.6
43	19.7	13.9	53.9

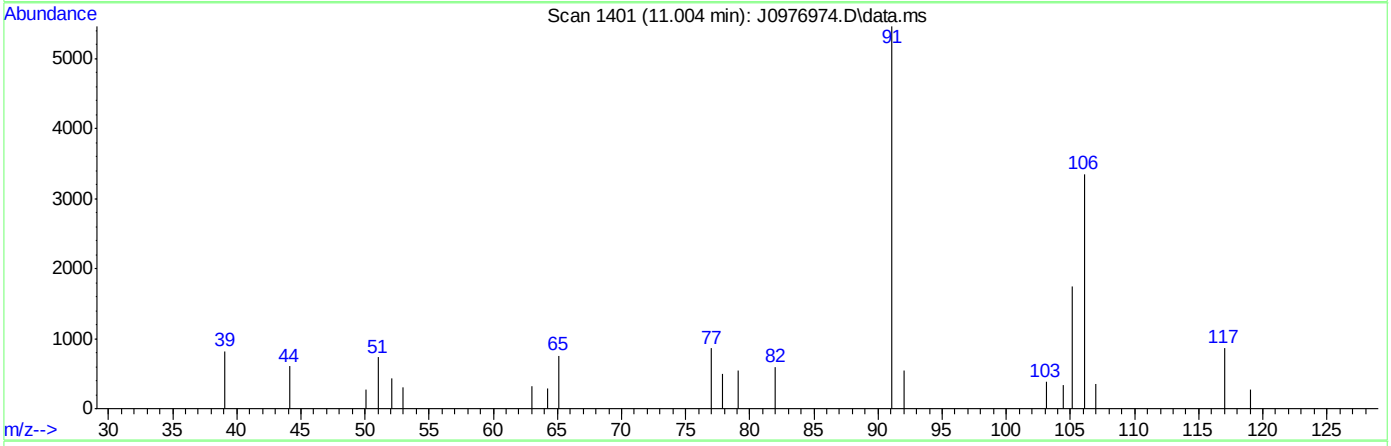


Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976974.D
Acq On : 2 Jun 2016 11:01 am
Operator : darshnap
Sample : fa34367-4 ma Inst : MSVOA6
Misc : MS34051,VJ5326,,,,,10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 12:32:50 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976974.D\data.ms

(70) Ethylbenzene (C)

11.004min (+0.146) 0.29ug/L

response 10186

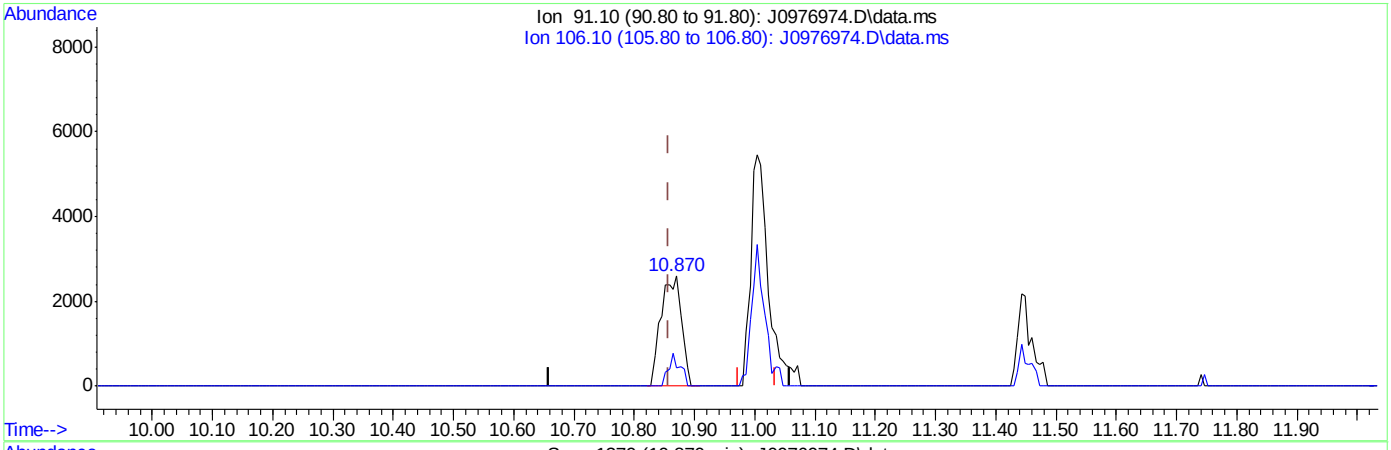
Ion	Exp%	Act%
91.10	100	100
106.10	32.80	61.32
0.00	0.00	0.00
0.00	0.00	0.00

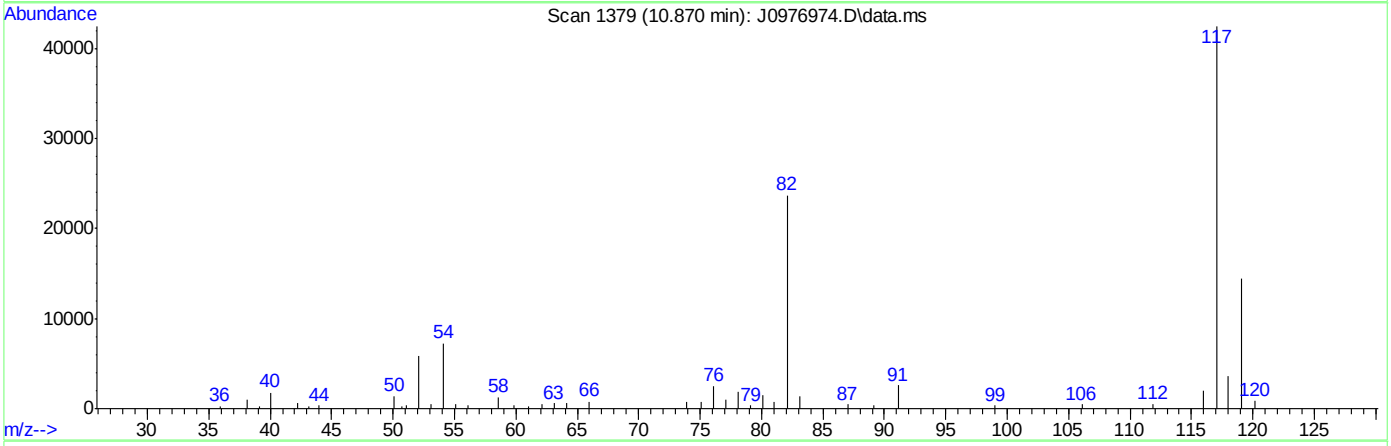
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976974.D
Acq On : 2 Jun 2016 11:01 am
Operator : darshnap
Sample : fa34367-4 ma Inst : MSVOA6
Misc : MS34051,VJ5326,,,,,10
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 02 12:32:50 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976974.D\data.ms

(70) Ethylbenzene (C)

10.870min (+0.012) 0.18ug/L m

response 6074

Ion	Exp%	Act%
91.10	100	100
106.10	32.80	17.21
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976948.D
Acq On : 1 Jun 2016 12:30 pm
Operator : darshnap
Sample : fa34367-5 ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 13:58:28 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1178872	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	893355	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	465055	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	68539	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	297039	49.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.54%			
46) 1,2-Dichloroethane-d4	7.476	65	337818	50.21	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.42%			
57) Toluene-d8	9.301	98	1186849	52.54	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.08%			
79) 4-Bromofluorobenzene	12.051	95	450348	52.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.08%			

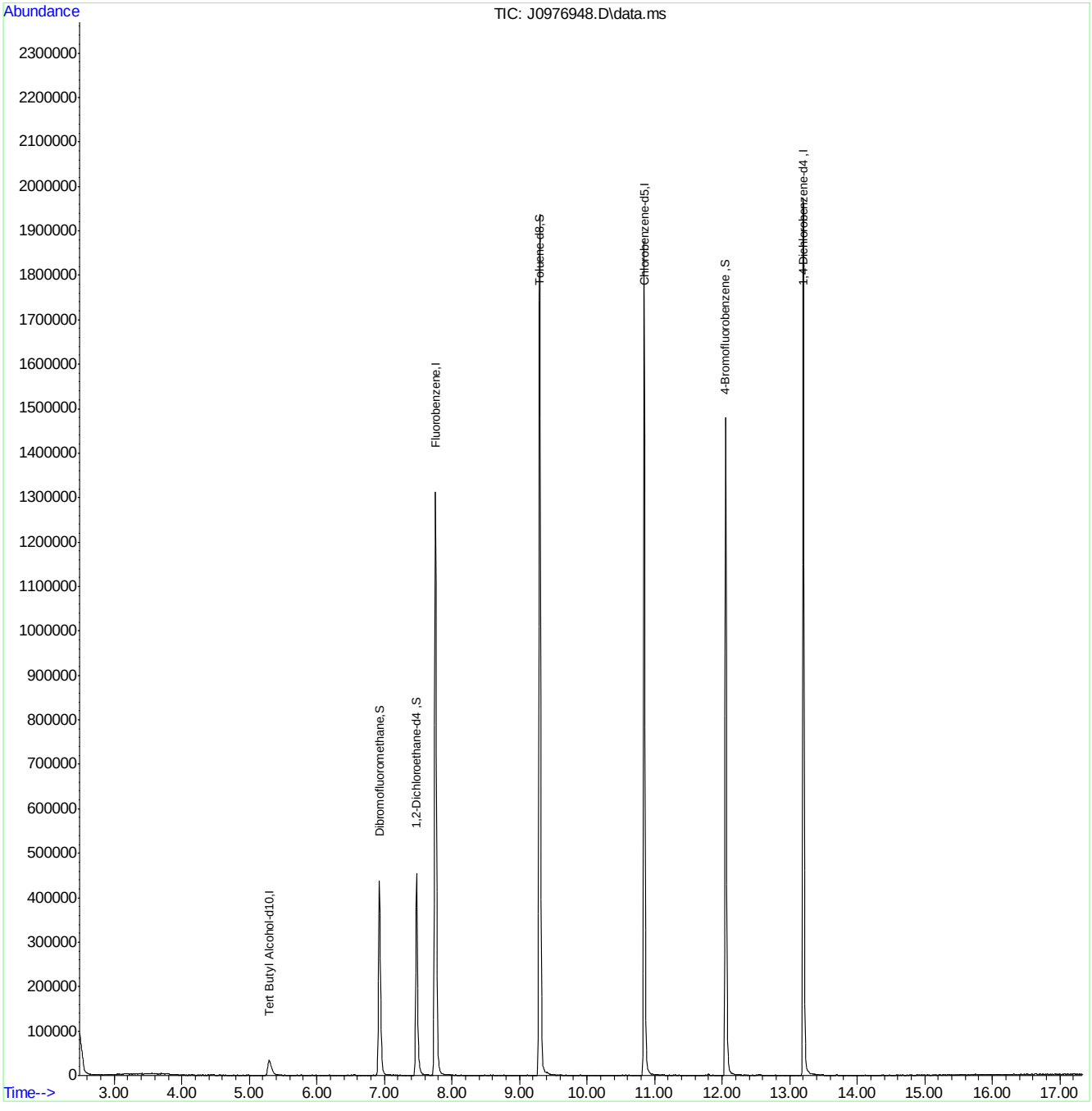
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976948.D
Acq On : 1 Jun 2016 12:30 pm
Operator : darshnap
Sample : fa34367-5 ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 13:58:28 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976949.D
Acq On : 1 Jun 2016 12:52 pm
Operator : darshnap
Sample : fa34367-6 ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 01 13:58:46 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1151670	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	866154	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	455651	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	67579	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	287838	49.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.74%			
46) 1,2-Dichloroethane-d4	7.476	65	334353	50.87	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.74%			
57) Toluene-d8	9.301	98	1170434	53.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.88%			
79) 4-Bromofluorobenzene	12.057	95	438983	52.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.54%			

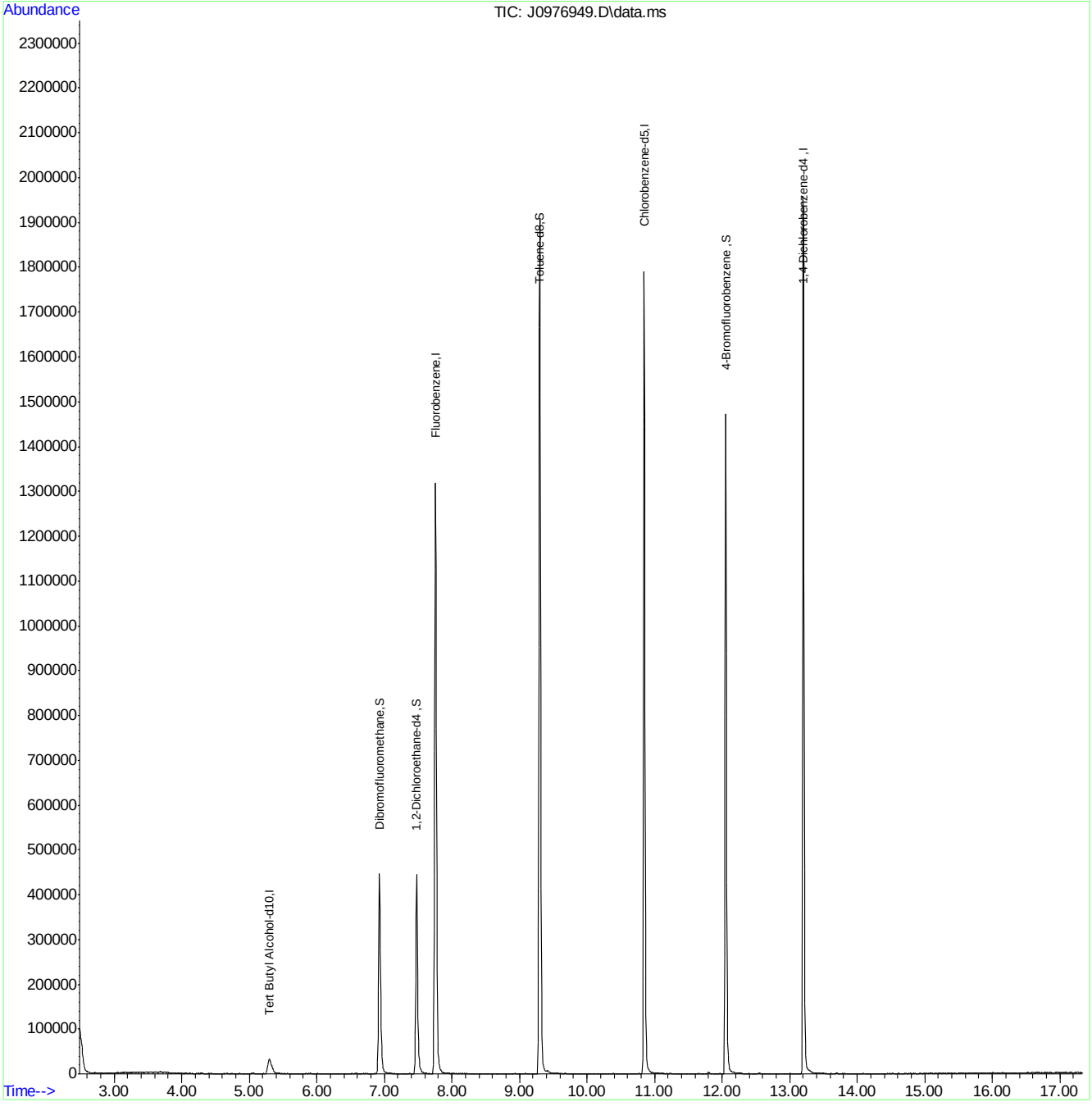
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976949.D
Acq On : 1 Jun 2016 12:52 pm
Operator : darshnap
Sample : fa34367-6 ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 01 13:58:46 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976944.D
Acq On : 1 Jun 2016 10:31 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 13:53:48 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1253463	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	942391	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	500335	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	71718	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	312860	49.30	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.60%			
46) 1,2-Dichloroethane-d4	7.476	65	359523	50.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.52%			
57) Toluene-d8	9.301	98	1271305	53.35	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.70%			
79) 4-Bromofluorobenzene	12.051	95	482827	52.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.72%			

Target Compounds Qvalue

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

7.2.1

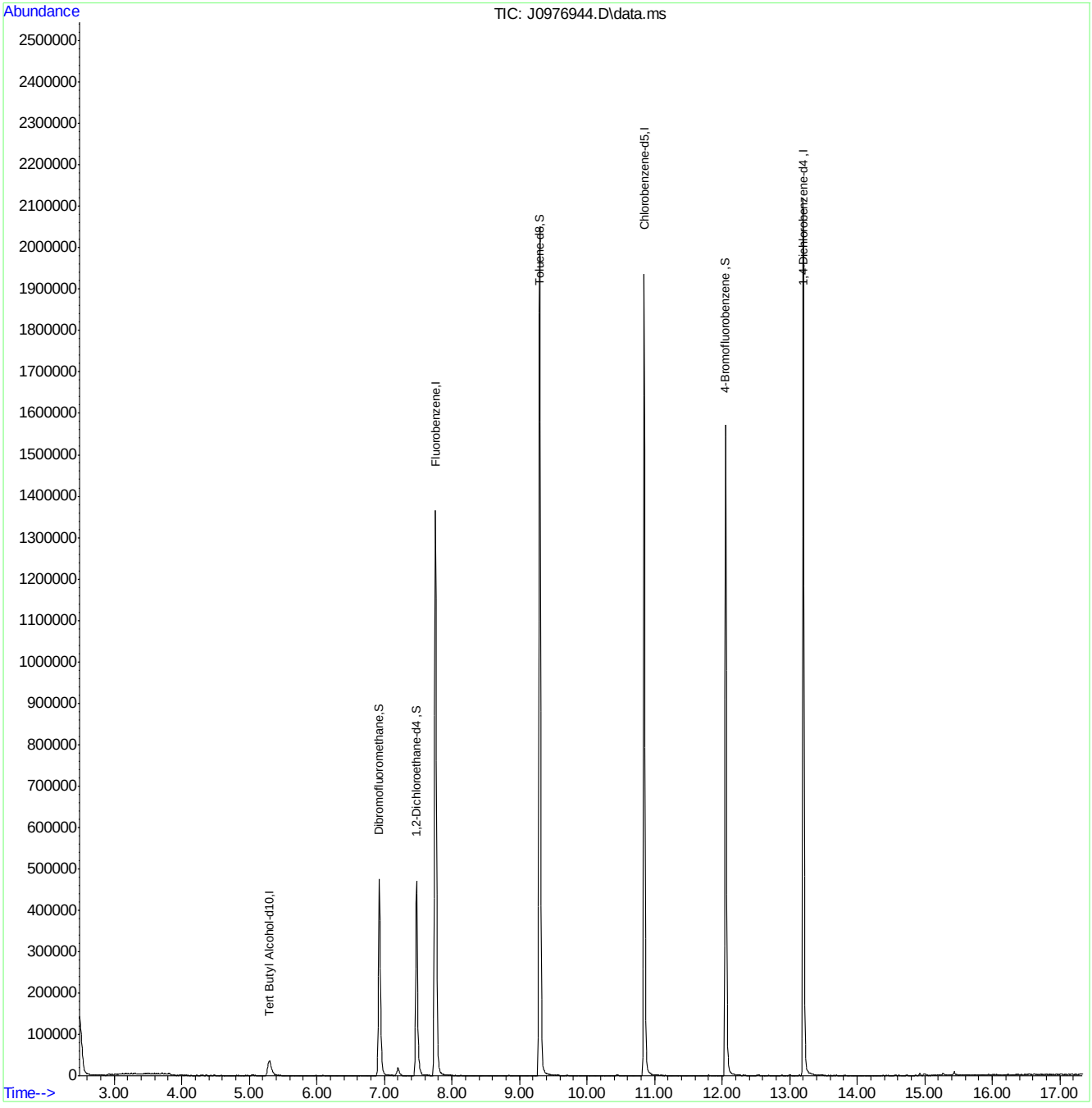
7

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976944.D
Acq On : 1 Jun 2016 10:31 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 13:53:48 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116028.D
Acq On : 1 Jun 2016 11:40 am
Operator : ericp
Sample : MB MA Inst : MSVOA5
Misc : ms34045,vc4610,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 01 13:01:55 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

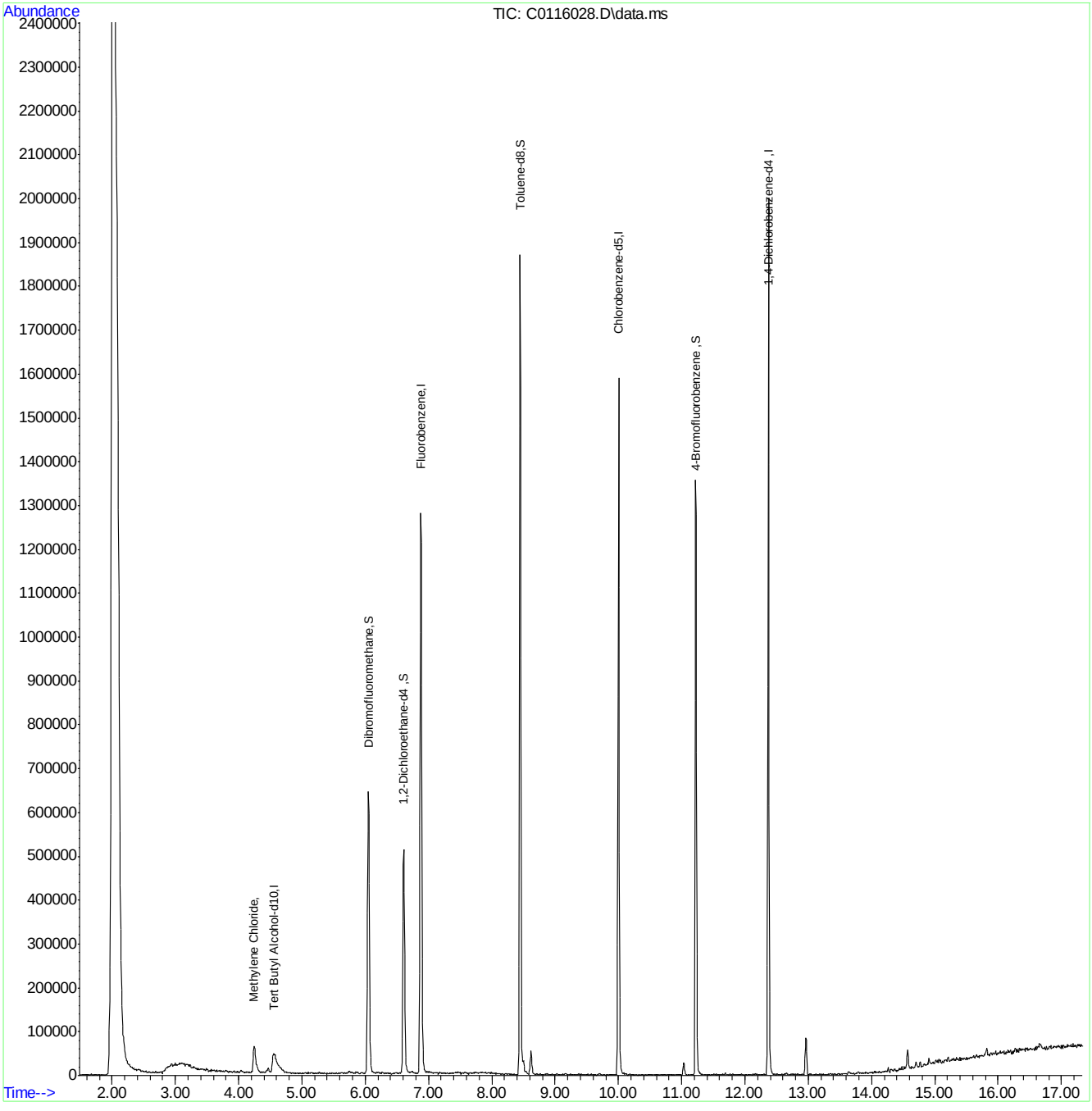
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.877	96	1075800	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	785698	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	454759	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.566	65	120156	250.00	ug/Kg	0.04
System Monitoring Compounds						
35) Dibromofluoromethane	6.050	113	388919	56.98	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.96%			
44) 1,2-Dichloroethane-d4	6.610	65	410176	54.54	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 109.08%			
55) Toluene-d8	8.447	98	1069368	47.69	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 95.38%			
77) 4-Bromofluorobenzene	11.227	174	319079	44.05	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 88.10%			
Target Compounds						Qvalue
15) Methylene Chloride	4.243	49	48802	6.52	ug/Kg	97

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

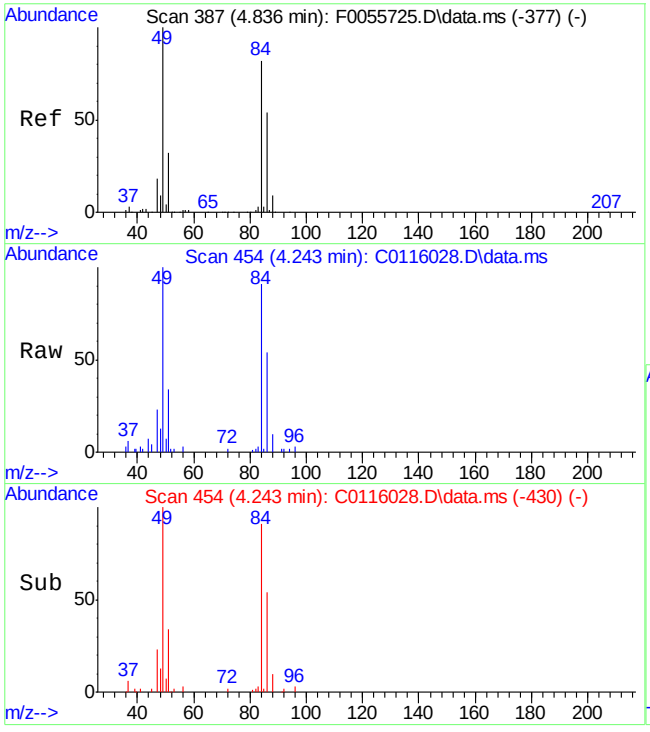
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116028.D
Acq On : 1 Jun 2016 11:40 am
Operator : ericp
Sample : MB MA Inst : MSVOA5
Misc : ms34045,vc4610,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 01 13:01:55 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration



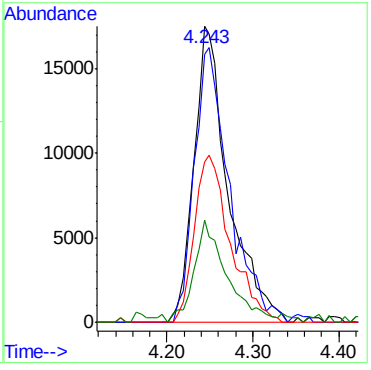
052316APP9-C-Soil.m Thu Jun 02 09:35:36 2016 Page: 2



#15
Methylene Chloride
Concen: 6.52 ug/Kg
RT: 4.243 min Scan# 454
Delta R.T. -0.006 min
Lab File: C0116028.D
Acq: 1 Jun 2016 11:40 am

Tgt Ion: 49 Resp: 48802

Ion	Ratio	Lower	Upper
49	100		
84	90.6	56.3	116.3
86	54.1	25.6	85.6
51	32.9	1.6	61.6



7.2.2

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976973.D
Acq On : 2 Jun 2016 10:38 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34051,VJ5326,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 12:33:31 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1252420	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	937568	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	495038	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	75320	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.929	113	315170	49.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.42%			
46) 1,2-Dichloroethane-d4	7.476	65	365891	51.19	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.38%			
57) Toluene-d8	9.301	98	1261640	53.21	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.42%			
79) 4-Bromofluorobenzene	12.051	95	479264	52.53	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.06%			
Target Compounds						Qvalue
105) 1,2,3-Trichlorobenzene	15.433	180	4935	0.65	ug/L	86

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

7.2.3

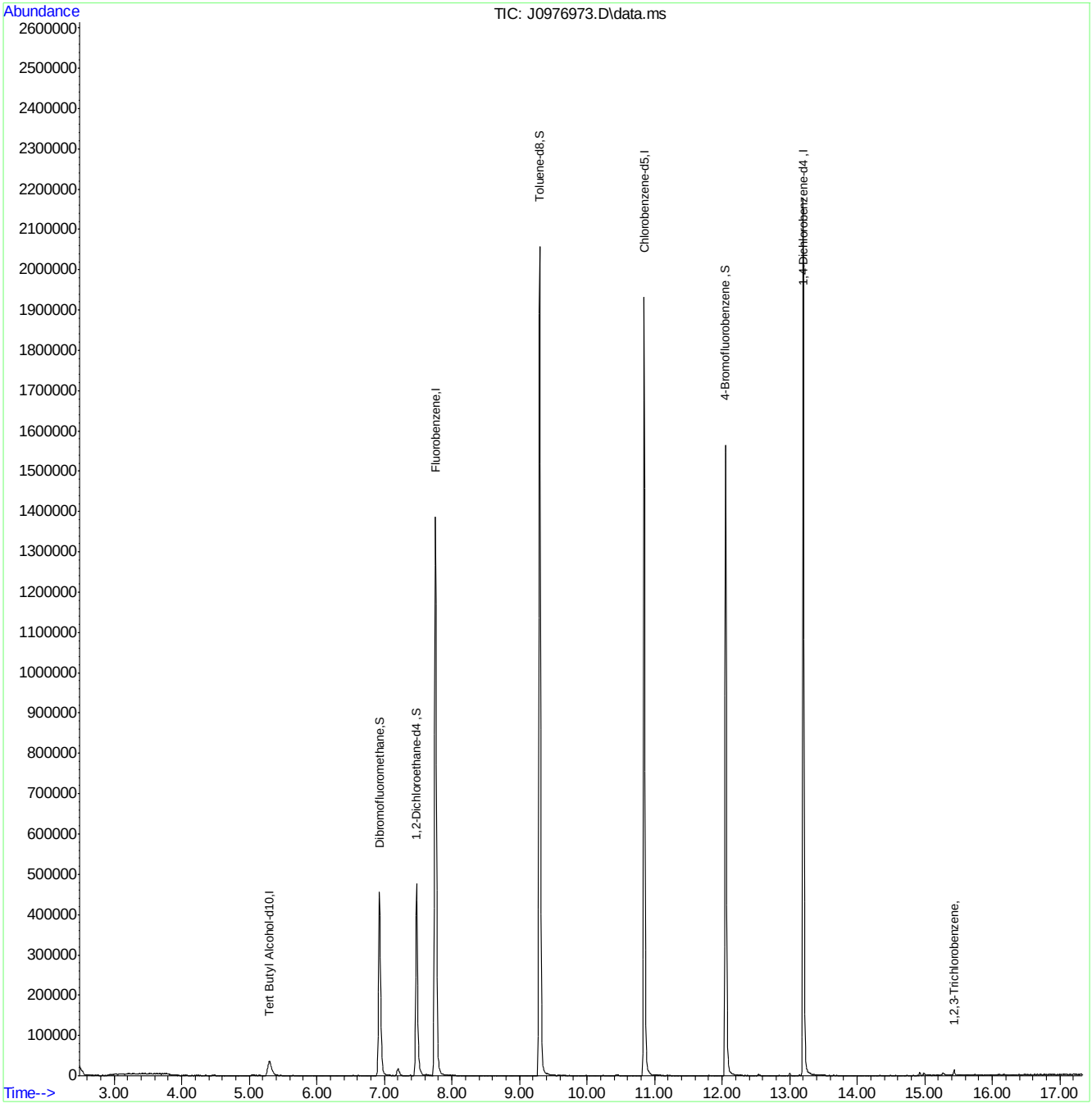
7

SGS ACCUTEST FA34367

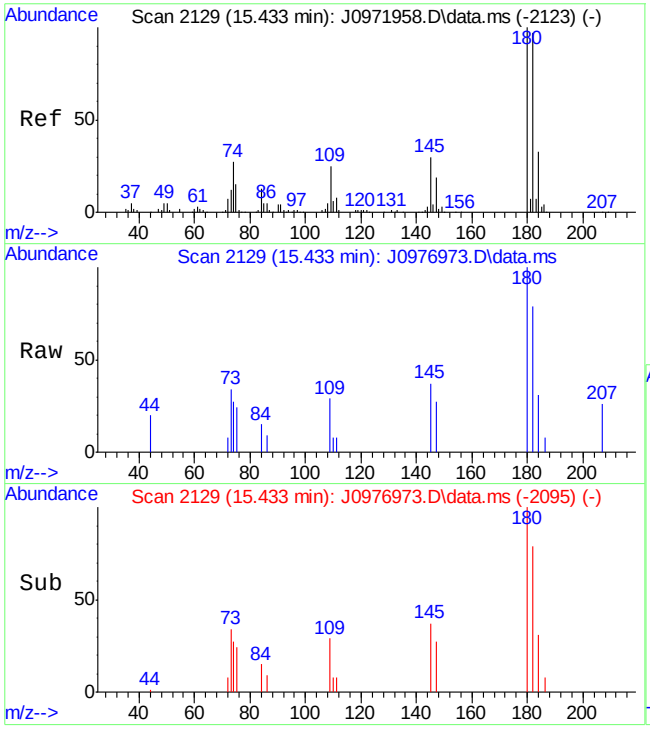
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976973.D
Acq On : 2 Jun 2016 10:38 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34051,VJ5326,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 02 12:33:31 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



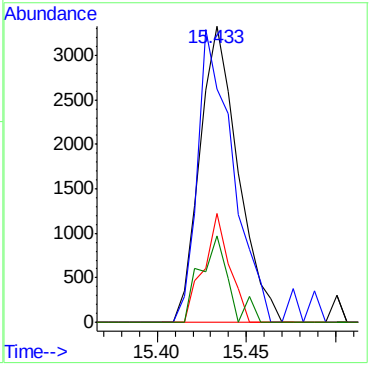
MSJ052316a.M Thu Jun 02 12:40:55 2016 Page: 2



#105
1,2,3-Trichlorobenzene
Concen: 0.65 ug/L
RT: 15.433 min Scan# 2129
Delta R.T. 0.006 min
Lab File: J0976973.D
Acq: 2 Jun 2016 10:38 am

Tgt Ion:180 Resp: 4935

Ion	Ratio	Lower	Upper
180	100		
182	78.8	65.1	125.1
145	36.9	0.0	59.9
109	29.3	0.0	56.0



7.2.3

7

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/02/16 10:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976945.D
Acq On : 1 Jun 2016 11:00 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 11:21:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1308719	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1014070	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	577923	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	81619	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	323610	48.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.70%			
46) 1,2-Dichloroethane-d4	7.476	65	368215	49.30	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.60%			
57) Toluene-d8	9.301	98	1322406	51.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.14%			
79) 4-Bromofluorobenzene	12.051	95	517034	48.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	193814	22.83	ug/L	98
3) Chloromethane	2.895	50	219122	22.84	ug/L	100
4) Vinyl Chloride	3.047	62	218353	22.39	ug/L	96
5) 1,3-Butadiene	3.029	54	9451	2.35	ug/L	92
6) Bromomethane	3.461	94	120437	20.63	ug/L	96
7) Chloroethane	3.613	64	98909	21.16	ug/L	98
8) Trichlorofluoromethane	3.838	101	293532m	22.59	ug/L	
9) Ethyl Ether	4.112	59	104888	18.26	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.355	67	213668	23.83	ug/L	98
11) 1,1-Dichloroethene	4.398	61	239206	21.36	ug/L	98
12) Freon 113	4.465	101	152314	19.47	ug/L	93
13) Carbon Disulfide	4.471	76	458344	17.68	ug/L	99
14) Iodomethane	4.586	142	235111	18.49	ug/L	99
15) Allyl chloride	4.921	41	196637	20.47	ug/L	97
16) Methylene Chloride	5.043	49	206224	20.52	ug/L	99
17) Acetone	5.073	58	45409	100.76	ug/L	97
18) Methyl acetate	5.189	74	82975	106.53	ug/L	96
19) trans-1,2-Dichloroethene	5.225	61	239466	23.80	ug/L	98
20) Hexane	5.292	56	132150	19.74	ug/L	94
21) Methyl Tert Butyl Ether	5.329	73	391318	20.03	ug/L	92
22) Acetonitrile	5.596	40	55125	185.54	ug/L	91
23) Di-isopropyl ether	5.712	45	444678	20.33	ug/L	98
24) Chloroprene	5.870	53	226525	21.89	ug/L	97
25) 1,1-Dichloroethane	5.894	63	303114	22.57	ug/L	98
26) Acrylonitrile	5.925	53	193968	103.38	ug/L	99
27) ETBE	6.113	59	459910	20.60	ug/L	98
28) Vinyl acetate	6.107	43	1099414	96.66	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	179850	20.81	ug/L	96
30) 2,2-Dichloropropane	6.606	77	255237	23.18	ug/L	98
31) Bromochloromethane	6.685	128	77703	20.07	ug/L	92
32) Cyclohexane	6.734	56	265947	21.38	ug/L	95
33) Chloroform	6.734	83	317588	21.85	ug/L	97
34) Ethyl acetate	6.807	43	422225	103.27	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976945.D
Acq On : 1 Jun 2016 11:00 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 11:21:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	23765	19.57 ug/L	97
37) Carbon Tetrachloride	6.935	117	256693m	23.44 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	276237	21.33 ug/L	99
39) 2-Butanone	7.020	43	185636	104.13 ug/L	99
40) 1,1-Dichloropropene	7.105	75	222211	22.19 ug/L	97
41) tert-Butyl Formate	7.184	59	1271050	241.36 ug/L	99
42) Propionitrile	7.330	54	137610	207.96 ug/L #	76
43) Methacrylonitrile	7.354	41	578317	210.45 ug/L	99
44) Benzene	7.354	78	701686	22.32 ug/L	100
45) TAME	7.433	73	404469	19.85 ug/L	99
47) 1,2-Dichloroethane	7.549	62	210544	21.80 ug/L	99
48) Trichloroethene	7.932	95	185225	22.95 ug/L	94
49) Methylcyclohexane	7.957	83	324557	23.44 ug/L	98
50) Dibromomethane	8.358	93	94303	22.52 ug/L	97
51) 1,2-Dichloropropane	8.449	63	164901	21.13 ug/L	97
52) Bromodichloromethane	8.492	83	221446	22.25 ug/L	94
53) Methyl methacrylate	8.589	41	80003	20.96 ug/L	96
54) 2-Chloroethyl vinyl ether	9.003	63	433219	112.85 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	258802	23.15 ug/L	98
58) Toluene	9.350	91	764568	23.67 ug/L	100
59) 2-Nitropropane	9.557	41	113764	109.09 ug/L	96
60) 4-Methyl-2-pentanone	9.672	43	457594	116.09 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	238830	26.53 ug/L	98
62) Tetrachloroethene	9.757	166	197437	24.30 ug/L	99
63) Ethyl methacrylate	9.836	69	135497	18.93 ug/L	98
64) 1,1,2-Trichloroethane	9.903	83	119517	23.74 ug/L	98
65) Dibromochloromethane	10.098	129	158894	24.19 ug/L	95
66) 1,3-Dichloropropane	10.183	76	226692	22.21 ug/L	99
67) 1,2-Dibromoethane	10.360	107	131058	23.24 ug/L	97
68) 2-hexanone	10.487	43	314071	108.80 ug/L	100
69) 1-Chlorohexane	10.792	91	240090	23.27 ug/L	94
70) Ethylbenzene	10.858	91	912820	24.13 ug/L	99
71) Chlorobenzene	10.865	112	521384	23.80 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	176865	24.67 ug/L	98
73) m,p-Xylene	10.998	91	1408653	48.89 ug/L	97
74) o-Xylene	11.436	91	697848	25.72 ug/L	100
75) Styrene	11.485	104	531292	22.97 ug/L	98
76) Bromoform	11.546	173	96993	22.65 ug/L	99
77) Isopropylbenzene	11.741	105	885644	27.78 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.087	53	33577	20.13 ug/L	91
81) n-Propylbenzene	12.160	91	1082746	26.52 ug/L	100
82) Bromobenzene	12.185	156	224627	23.13 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	168765	22.76 ug/L	100
84) 1,3,5-Trimethylbenzene	12.343	105	780564	26.04 ug/L	100
85) 2-Chlorotoluene	12.349	91	745418	25.08 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	32693	20.82 ug/L	97
87) 1,2,3-Trichloropropane	12.379	110	45814	24.11 ug/L	97
88) Cyclohexanone	12.446	55	31990	155.16 ug/L	90
89) 4-Chlorotoluene	12.519	91	674632	25.23 ug/L	100
90) a-Methyl Styrene	12.750	118	7309	0.43 ug/L #	1

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976945.D
Acq On : 1 Jun 2016 11:00 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 11:21:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.684	91	438794	25.34	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	782367	26.08	ug/L	97
93) Pentachloroethane	12.738	167	141102	24.14	ug/L	96
94) sec-Butylbenzene	12.866	105	1003311	27.78	ug/L	99
95) 4-Isopropyltoluene	13.000	119	840939	26.68	ug/L	100
96) 1,3-Dichlorobenzene	13.134	146	417533	24.88	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	421717	23.88	ug/L	96
98) n-Butylbenzene	13.432	92	466812	27.18	ug/L	99
99) Benzyl Chloride	13.444	126	61049	23.77	ug/L #	89
100) 1,2-Dichlorobenzene	13.645	146	380456	24.29	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	22629	22.06	ug/L	95
102) Hexachlorobutadiene	14.928	225	179024	25.60	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	255497	24.53	ug/L	97
104) Naphthalene	15.257	128	384085	24.68	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	210718	23.48	ug/L	100
107) Ethanol	4.270	45	19762m	431.81	ug/L	
108) acrolein	4.757	56	78584	114.36	ug/L	95
109) Tert Butyl Alcohol	5.377	59	91992	217.84	ug/L	93
110) tert Amyl alcohol	7.567	59	76137	252.84	ug/L	86
111) Isobutyl alcohol	7.452	42	59733	448.62	ug/L	92
112) 1,4-Dioxane	8.668	88	20783	436.15	ug/L	94
113) 3,3-Dimethyl-1-butanol	10.433	57	435747	1186.67	ug/L	98

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

7.3.1

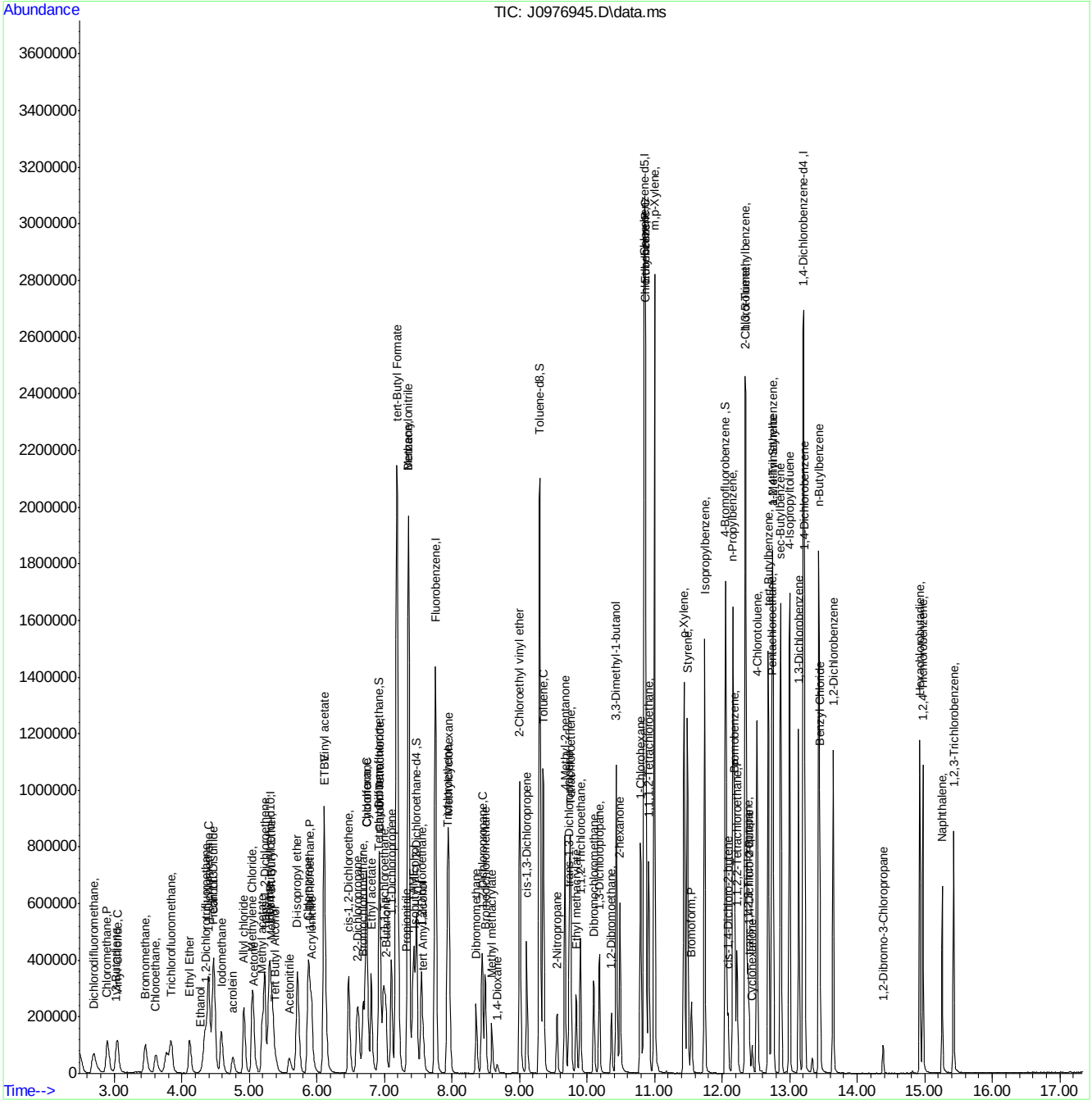
7

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976945.D
Acq On : 1 Jun 2016 11:00 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 11:21:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

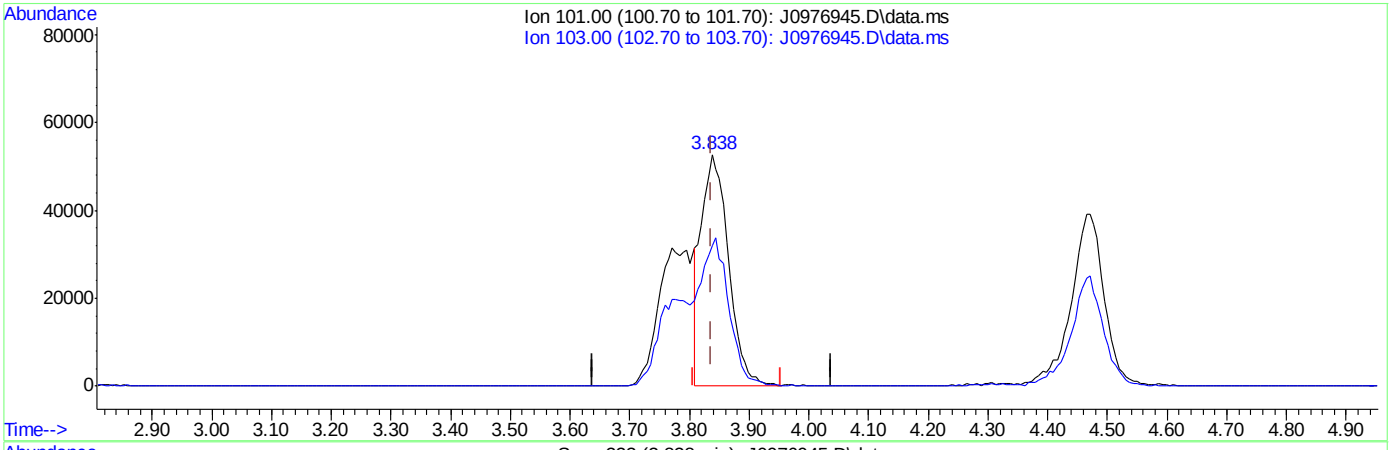
Sample Number:	VJ5324-BS	**Method:**	SW846 8260C
Lab FileID:	J0976945.D	**Analyst approved:**	06/02/16 09:54 Darshna Patel
Injection Time:	06/01/16 11:00	**Supervisor approved:**	06/02/16 10:26 Juan Garcia

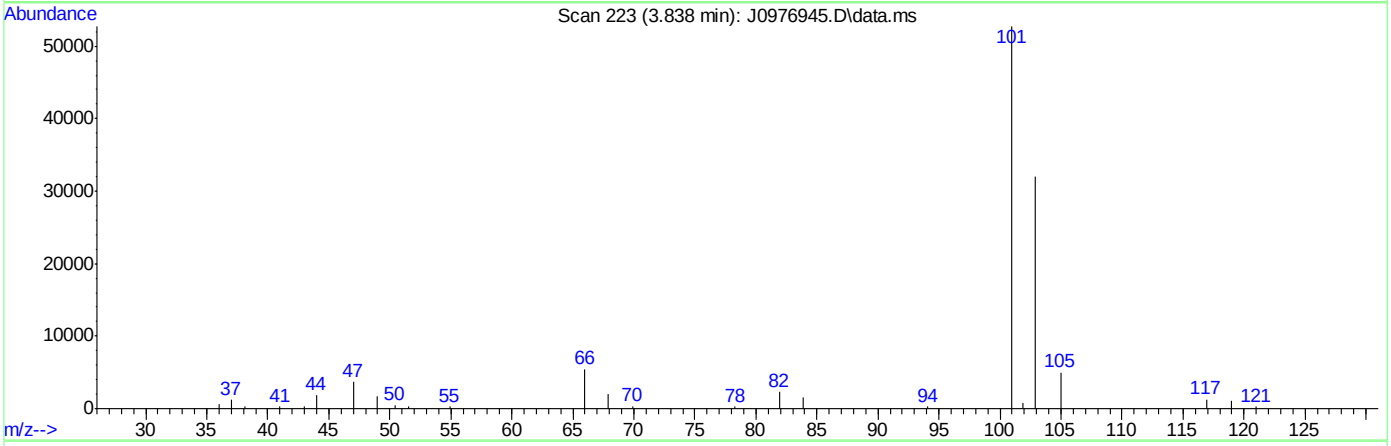
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976945.D
Acq On : 1 Jun 2016 11:00 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 11:21:27 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976945.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.000) 12.93ug/L

response 168000

Ion	Exp%	Act%
101.00	100	100
103.00	62.30	60.72
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976945.D
Acq On : 1 Jun 2016 11:00 am
Operator : darshnap
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Misc : MS34031,VJ5323,,,,,
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QLast Update : Wed Jun 01 09:17:29 2016
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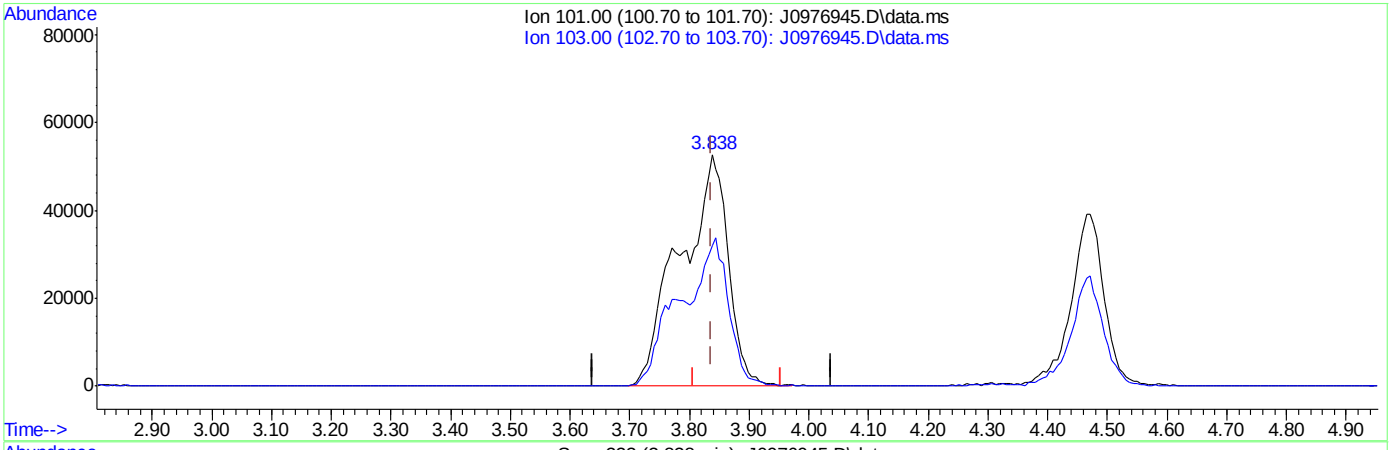
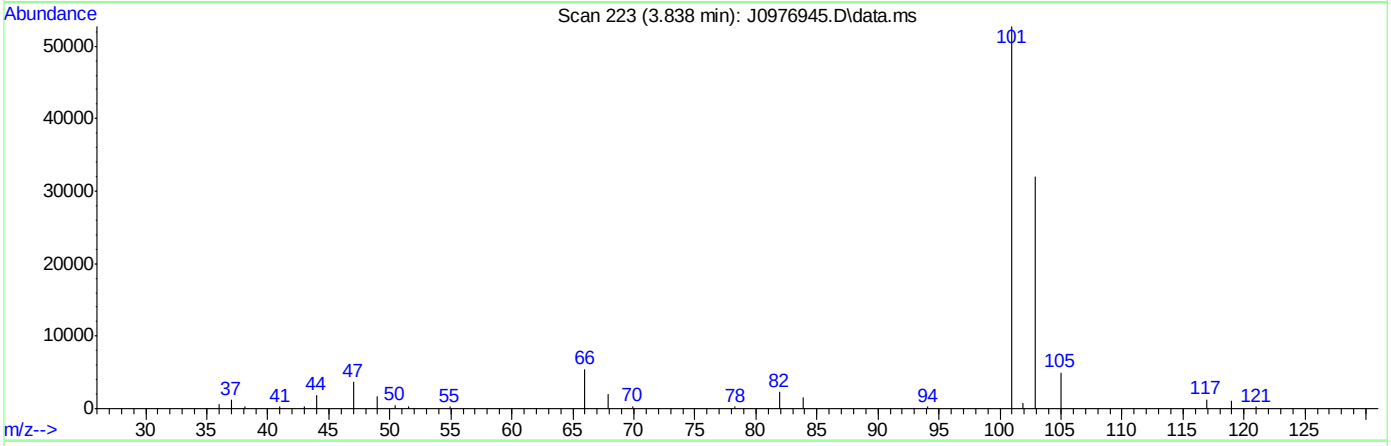




TIC: J0976945.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.000) 22.59ug/L m

response 293532

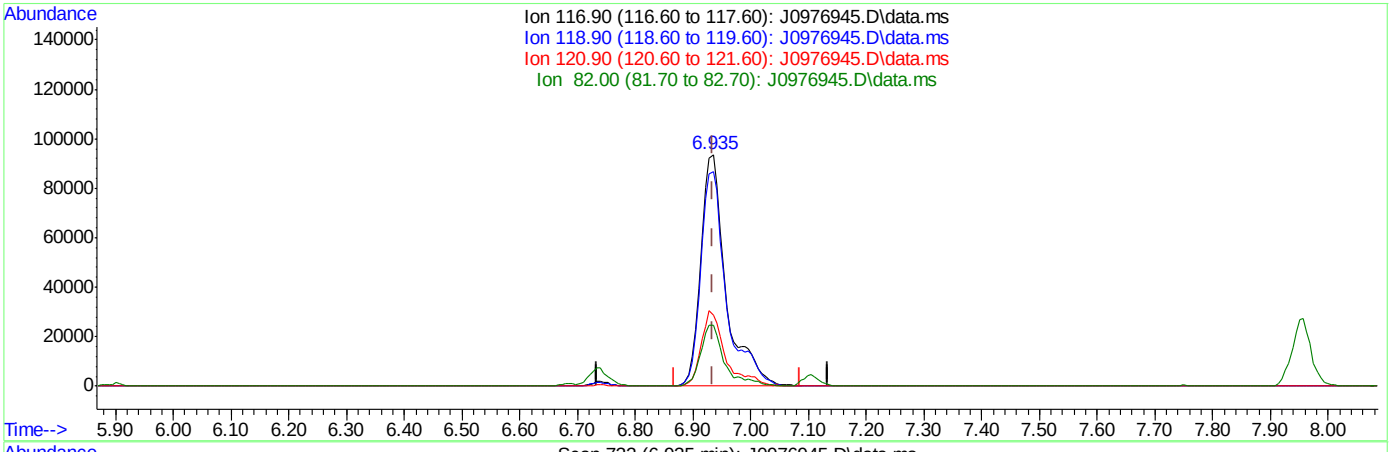
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	60.72
0.00	0.00	0.00
0.00	0.00	0.00

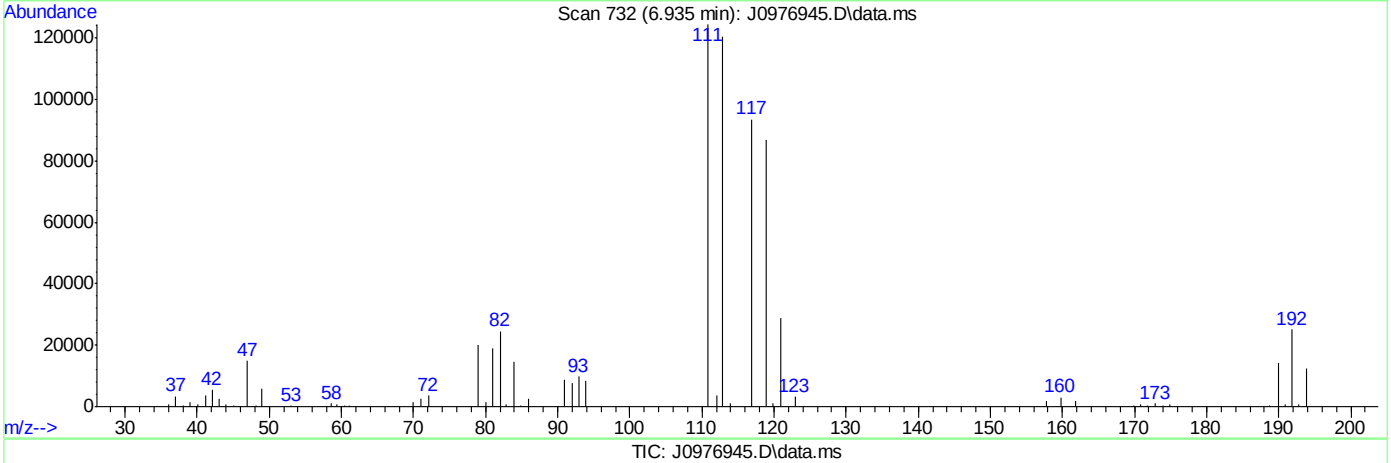
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976945.D
Acq On : 1 Jun 2016 11:00 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 11:21:27 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976945.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 26.03ug/L

response 285086

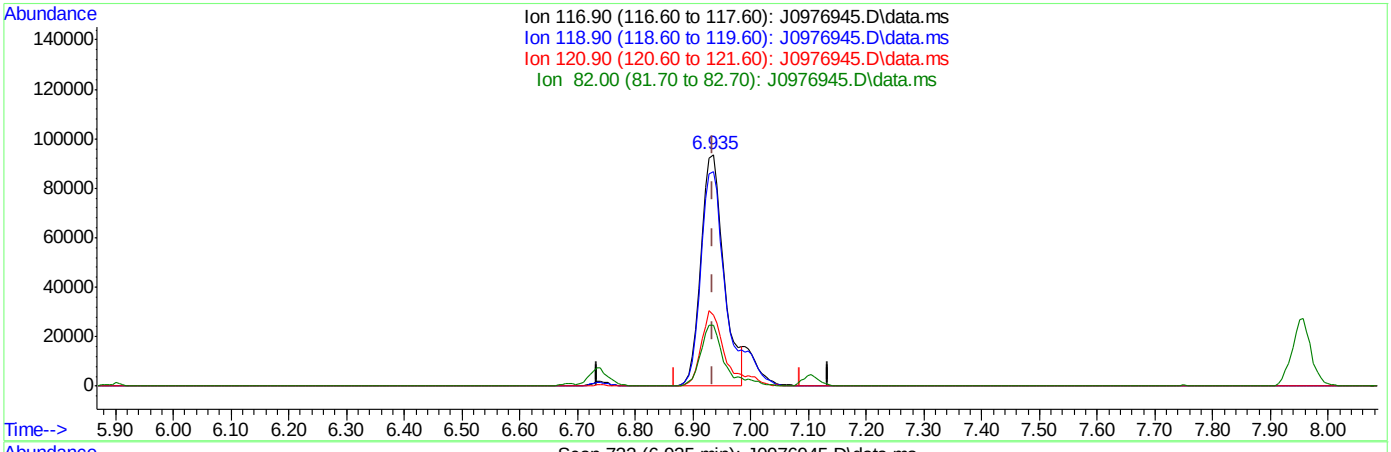
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	92.64
120.90	32.20	30.78
82.00	25.20	26.26

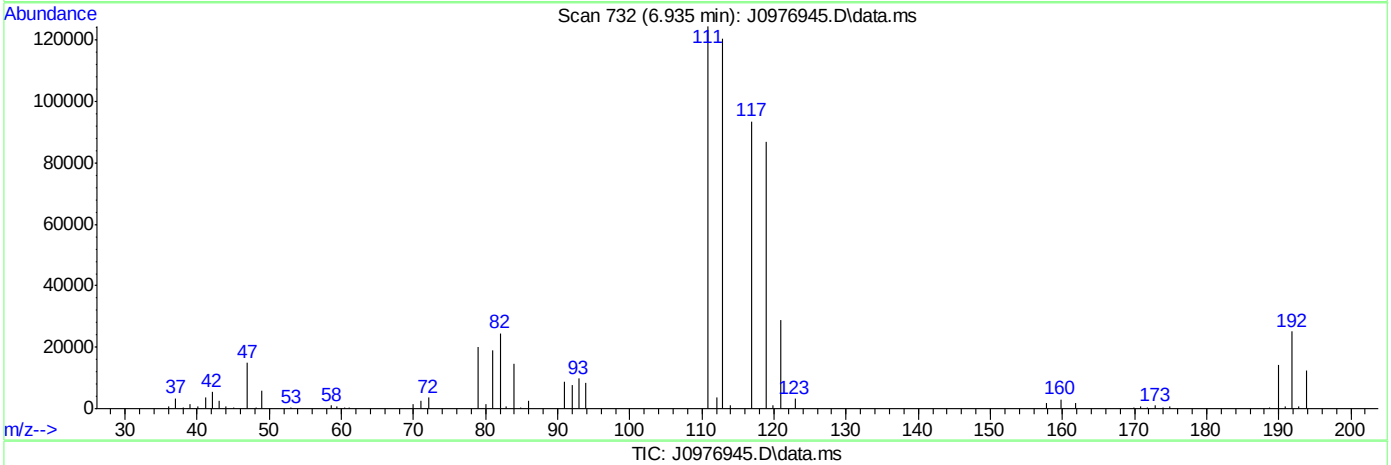
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976945.D
Acq On : 1 Jun 2016 11:00 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 11:21:27 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976945.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 23.44ug/L m

response 256693

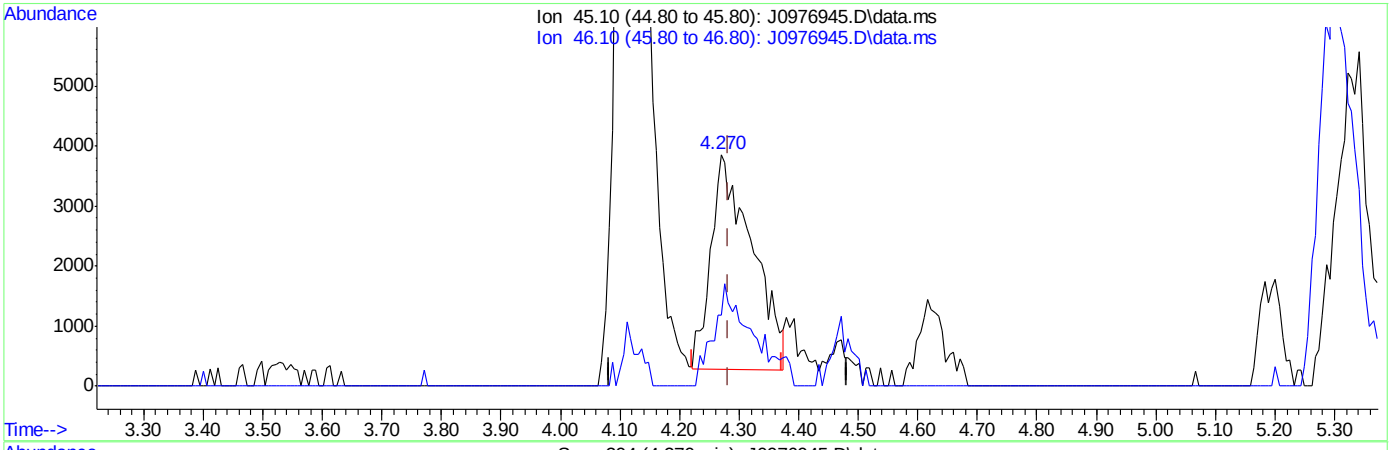
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	92.64
120.90	32.20	30.78
82.00	25.20	26.26

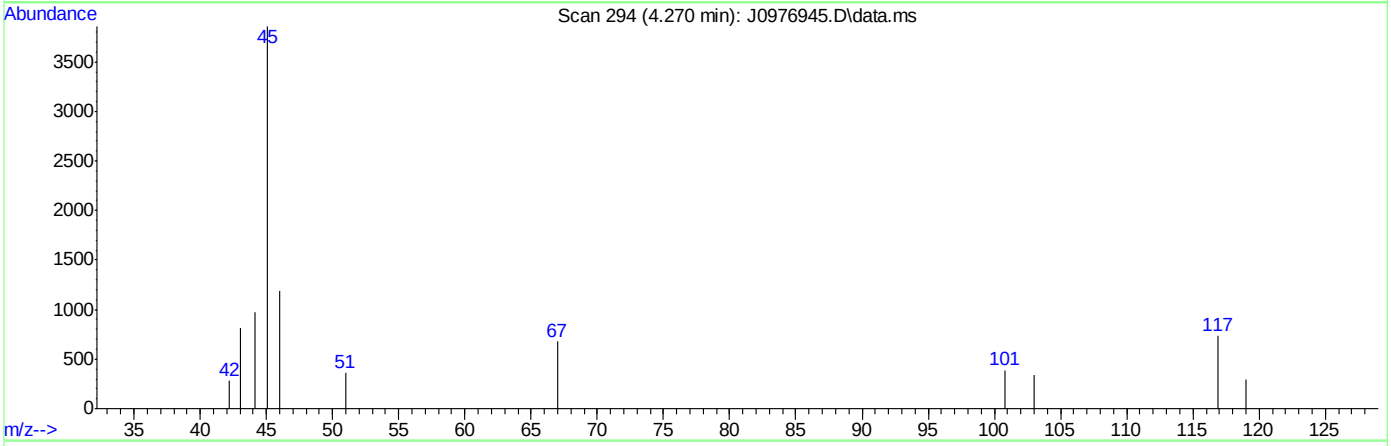
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976945.D
Acq On : 1 Jun 2016 11:00 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 11:21:27 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976945.D\data.ms

(107) Ethanol

4.270min (-0.012) 376.18ug/L

response 17216

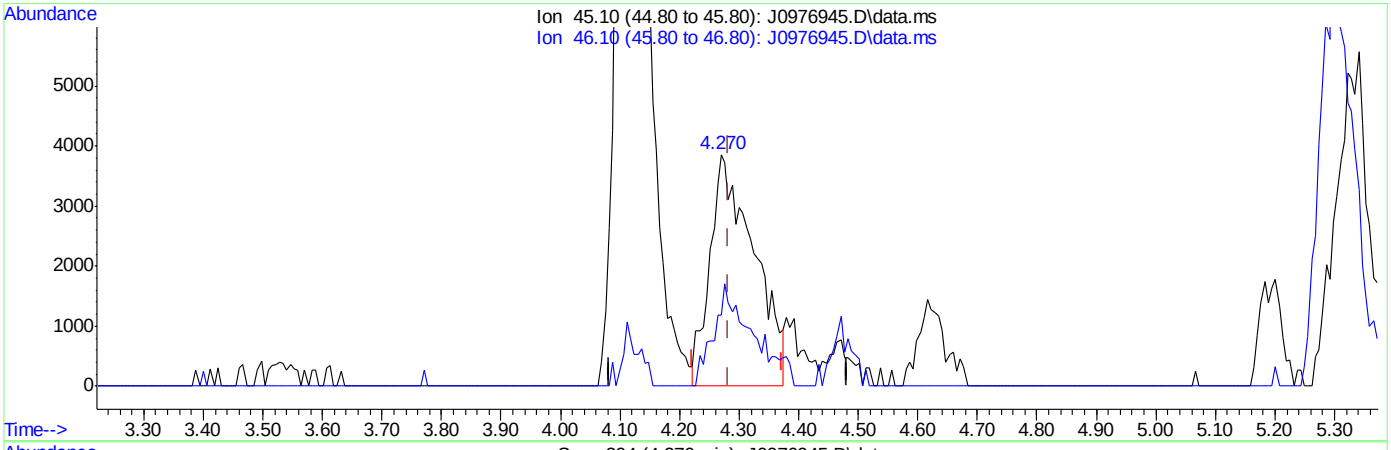
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	33.68
0.00	0.00	0.00
0.00	0.00	0.00

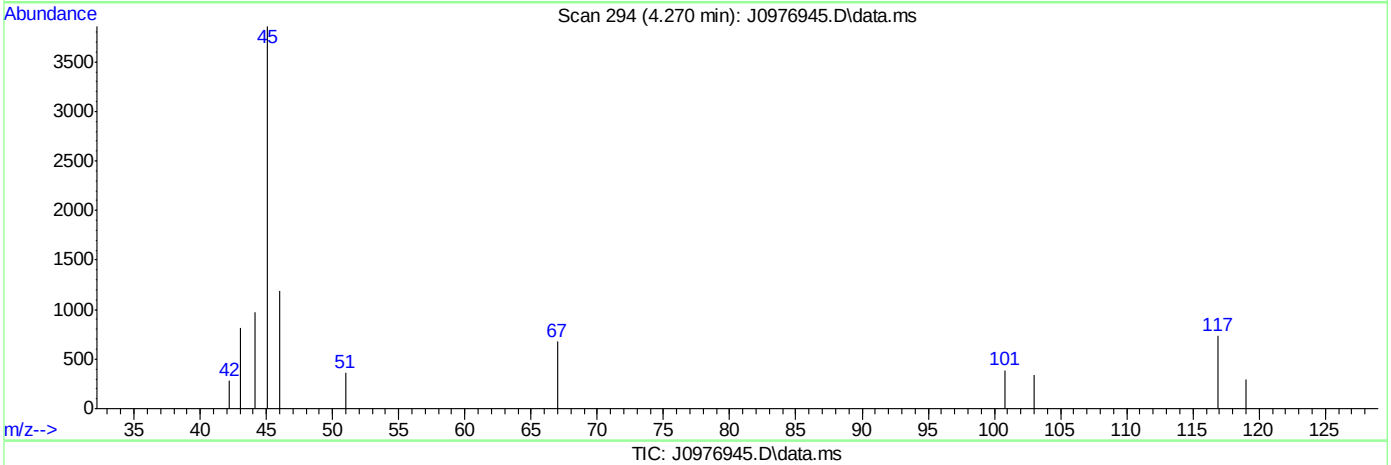
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976945.D
Acq On : 1 Jun 2016 11:00 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 01 11:21:27 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976945.D\data.ms

(107) Ethanol

4.270min (-0.012) 431.81ug/L m

response 19762

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	30.87
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116027.D
Acq On : 1 Jun 2016 11:15 am
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 01 11:49:38 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	1051778	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	775776	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	423191	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.529	65	135683	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.050	113	332066	49.76	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.52%			
44) 1,2-Dichloroethane-d4	6.610	65	367766	50.02	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 100.04%			
55) Toluene-d8	8.447	98	1097531	49.58	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.16%			
77) 4-Bromofluorobenzene	11.227	174	327036	48.52	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	701701	58.71	ug/Kg	94
3) Chloromethane	2.406	50	463471	58.13	ug/Kg	98
4) Vinyl Chloride	2.522	62	420476	56.26	ug/Kg	99
5) Bromomethane	2.874	94	241121	57.26	ug/Kg	91
6) Chloroethane	3.008	64	172548	56.84	ug/Kg	97
7) Trichlorofluoromethane	3.167	101	718415	53.46	ug/Kg	94
8) Ethyl Ether	3.434	59	201059	49.47	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.665	67	347381	52.22	ug/Kg	95
10) 1,1-Dichloroethene	3.659	61	514137	50.29	ug/Kg	92
11) Freon 113	3.720	101	307870	44.61	ug/Kg	93
12) Carbon Disulfide	3.708	76	839936	46.07	ug/Kg	92
13) Iodomethane	3.817	142	624955	44.43	ug/Kg	93
14) Allyl chloride	4.140	41	401385	47.16	ug/Kg	91
15) Methylene Chloride	4.249	49	360865	52.62	ug/Kg	94
16) Acetone	4.304	43	353875	264.26	ug/Kg	99
17) Methyl acetate	4.414	43	589317	268.30	ug/Kg	97
18) trans-1,2-Dichloroethene	4.414	61	443172	52.58	ug/Kg	97
19) Hexane	4.474	56	177512	44.40	ug/Kg	92
20) Methyl Tert Butyl Ether	4.511	73	841757	46.94	ug/Kg	96
21) Acetonitrile	4.797	41	159741	572.60	ug/Kg	93
22) Di-isopropyl ether	4.876	45	704182	47.06	ug/Kg	96
23) Chloroprene	5.010	53	613365	49.07	ug/Kg	94
24) 1,1-Dichloroethane	5.040	63	527349	49.58	ug/Kg	99
25) Acrylonitrile	5.095	52	305329	307.37	ug/Kg	95
26) ETBE	5.247	59	830425	44.66	ug/Kg	96
27) Vinyl acetate	5.271	43	2029262	304.98	ug/Kg	97
28) cis-1,2-Dichloroethene	5.588	96	357553	44.99	ug/Kg	98
29) 2,2-Dichloropropane	5.703	77	376658	45.04	ug/Kg	96
30) Bromochloromethane	5.795	128	168794	44.09	ug/Kg	98
31) Cyclohexane	5.807	84	438205	43.40	ug/Kg	98
32) Chloroform	5.862	83	613246	45.13	ug/Kg	98
33) Ethyl acetate	5.959	43	851115	293.22	ug/Kg	100
34) Tetrahydrofuran	6.044	42	44439	56.51	ug/Kg	97

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116027.D
Acq On : 1 Jun 2016 11:15 am
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 01 11:49:38 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.014	117	653942	44.42	ug/Kg	99
37)	1,1,1-Trichloroethane	6.087	97	557411	41.60	ug/Kg	94
38)	2-Butanone	6.178	43	437536	262.63	ug/Kg	91
39)	1,1-Dichloropropene	6.208	75	405204	43.86	ug/Kg	95
40)	Propionitrile	6.500	54	270561	640.58	ug/Kg	86
41)	Methacrylonitrile	6.512	41	1141667	588.37	ug/Kg	98
42)	Benzene	6.470	78	1063380	46.94	ug/Kg	96
43)	TAME	6.555	73	749583	43.88	ug/Kg	96
45)	1,2-Dichloroethane	6.677	62	436353	47.20	ug/Kg	97
46)	Trichloroethene	7.054	95	314441	44.08	ug/Kg	93
47)	Methylcyclohexane	7.042	83	496272	45.24	ug/Kg	97
48)	Dibromomethane	7.492	93	183536	43.64	ug/Kg	98
49)	1,2-Dichloropropane	7.583	63	230921	41.67	ug/Kg	87
50)	Bromodichloromethane	7.638	83	445757	44.38	ug/Kg	99
51)	Methyl methacrylate	7.766	41	174988	51.77	ug/Kg	92
52)	2-Chloroethyl vinyl ether	8.185	63	543035	253.91	ug/Kg	97
53)	cis-1,3-Dichloropropene	8.265	75	397020	43.54	ug/Kg	93
56)	Toluene	8.502	91	1109684	45.36	ug/Kg	96
57)	2-Nitropropane	8.739	41	309300	209.12	ug/Kg	93
58)	4-Methyl-2-pentanone	8.861	43	1040742	293.48	ug/Kg	97
59)	trans-1,3-Dichloropropene	8.909	75	288000	45.66	ug/Kg	94
60)	Tetrachloroethene	8.891	166	339401	40.44	ug/Kg	95
61)	Ethyl methacrylate	9.037	69	253353	45.67	ug/Kg	96
62)	1,1,2-Trichloroethane	9.074	83	165325	45.90	ug/Kg	91
63)	Dibromochloromethane	9.262	129	308442	44.45	ug/Kg	94
64)	1,3-Dichloropropane	9.354	76	304533	43.27	ug/Kg	96
65)	1,2-Dibromoethane	9.512	107	209152	43.59	ug/Kg	97
66)	2-hexanone	9.688	43	553915	237.42	ug/Kg	95
67)	1-Chlorohexane	9.974	91	327715	39.02	ug/Kg	94
68)	Ethylbenzene	10.029	91	1164114	45.31	ug/Kg	97
69)	Chlorobenzene	10.023	112	652372	44.41	ug/Kg	95
70)	1,1,1,2-Tetrachloroethane	10.077	131	386047	46.27	ug/Kg	94
71)	m,p-Xylene	10.169	91	1859674	85.68	ug/Kg	98
72)	o-Xylene	10.607	91	1184947	46.16	ug/Kg	96
73)	Styrene	10.661	104	659743	40.77	ug/Kg	97
74)	Bromoform	10.710	173	167144	41.00	ug/Kg	96
75)	Isopropylbenzene	10.917	105	1457317	46.10	ug/Kg	100
78)	cis-1,4-Dichloro-2-butene	11.282	53	58602	46.47	ug/Kg	95
79)	n-Propylbenzene	11.337	91	1355594	48.19	ug/Kg	97
80)	Bromobenzene	11.337	156	300649	44.85	ug/Kg	93
81)	1,1,2,2-Tetrachloroethane	11.416	83	279300	49.84	ug/Kg	98
82)	1,3,5-Trimethylbenzene	11.531	105	1140026	45.74	ug/Kg	98
83)	2-Chlorotoluene	11.513	91	1057587	47.80	ug/Kg	99
84)	trans-1,4-Dichloro-2-B...	11.598	53	51088	42.93	ug/Kg	90
85)	1,2,3-Trichloropropane	11.568	110	84155	45.67	ug/Kg	94
86)	Cyclohexanone	11.629	55	51464	222.25	ug/Kg	86
87)	4-Chlorotoluene	11.684	91	829135	45.12	ug/Kg	100
88)	tert-Butylbenzene	11.866	91	811428	47.12	ug/Kg	94
89)	1,2,4-Trimethylbenzene	11.933	105	1105095	45.67	ug/Kg	96
90)	Pentachloroethane	11.909	167	284506	55.93	ug/Kg	93

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116027.D
Acq On : 1 Jun 2016 11:15 am
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 01 11:49:38 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.042	105	1462453	45.73	ug/Kg	99
92)	4-Isopropyltoluene	12.182	119	1231565	44.14	ug/Kg	99
93)	1,3-Dichlorobenzene	12.298	146	574045	45.11	ug/Kg	95
94)	1,4-Dichlorobenzene	12.389	146	505311	43.44	ug/Kg	94
95)	n-Butylbenzene	12.626	92	591462	42.65	ug/Kg	90
96)	Benzyl Chloride	12.639	126	110049	43.04	ug/Kg#	68
97)	1,2-Dichlorobenzene	12.827	146	629986	46.72	ug/Kg	98
98)	1,2-Dibromo-3-Chloropr...	13.642	75	73845	44.47	ug/Kg	86
99)	Hexachlorobutadiene	14.220	225	264684	35.48	ug/Kg	94
100)	1,2,4-Trichlorobenzene	14.263	180	454822	40.10	ug/Kg	97
101)	Naphthalene	14.549	128	1194772	51.79	ug/Kg	98
102)	1,2,3-Trichlorobenzene	14.707	180	482917	43.76	ug/Kg	96
104)	Ethanol	3.598	45	33857	1188.16	ug/Kg	80
105)	Acrolein	4.012	56	219022	227.47	ug/Kg	94
106)	Tert butyl alcohol	4.596	59	294875	404.20	ug/Kg	95
107)	Isobutyl alcohol	6.646	42	108553	1021.48	ug/Kg	87
108)	Tert Amyl Alcohol	6.750	59	226689	387.18	ug/Kg	95
109)	1,4-Dioxane	7.845	88	55576	903.85	ug/Kg	79

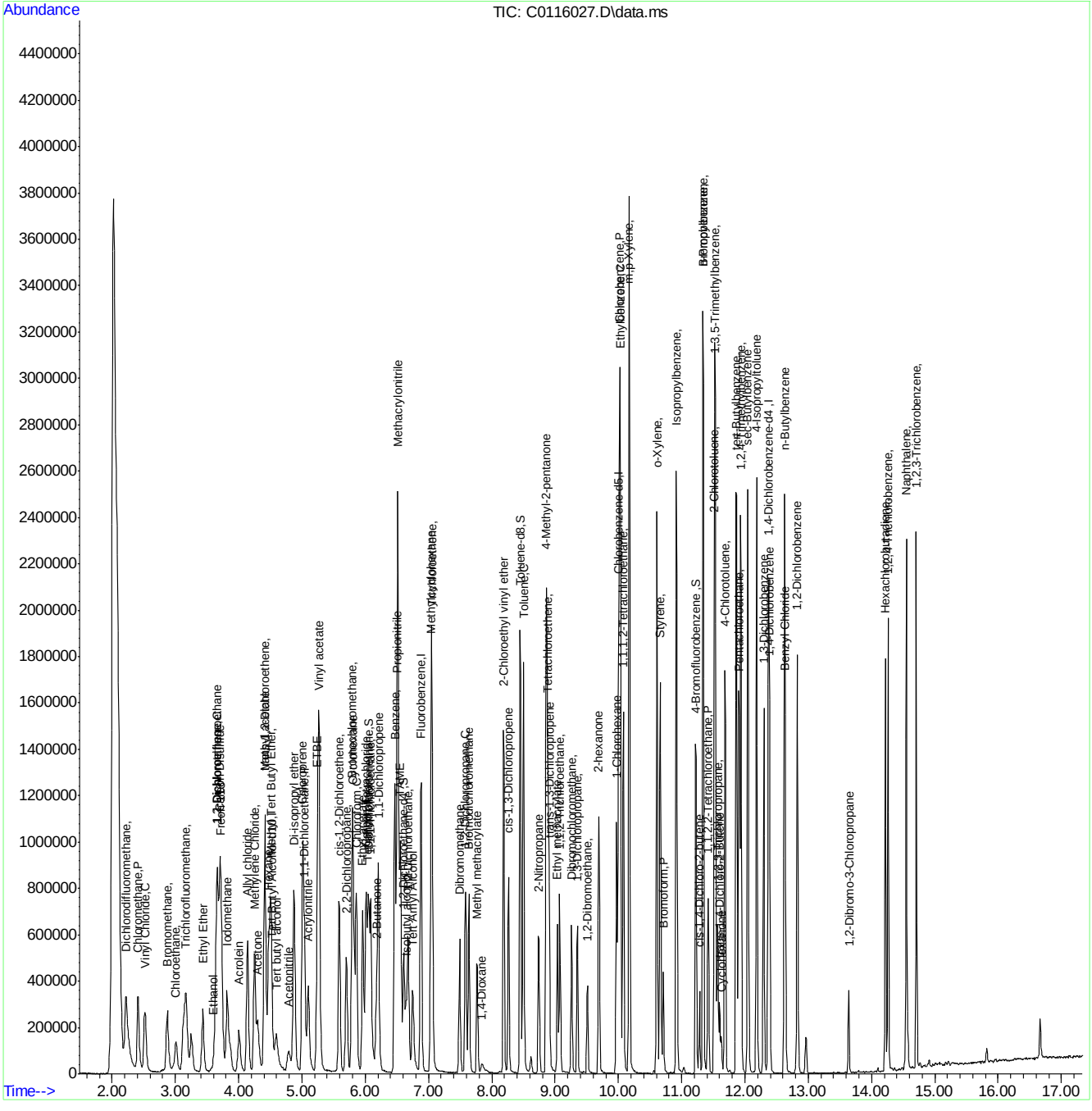
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116027.D
Acq On : 1 Jun 2016 11:15 am
Operator : ericp
Sample : BS MA Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jun 01 11:49:38 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 06/07/16 09:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34051,VJ5326,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 12:35:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1405243	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1056465	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	600070	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	89911	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	356325	50.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.18%			
46) 1,2-Dichloroethane-d4	7.476	65	400545	49.94	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.88%			
57) Toluene-d8	9.301	98	1389350	52.01	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.02%			
79) 4-Bromofluorobenzene	12.051	95	544280	49.21	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	206579	22.66	ug/L	97
3) Chloromethane	2.901	50	231461	22.47	ug/L	99
4) Vinyl Chloride	3.047	62	218097	20.81	ug/L	97
5) 1,3-Butadiene	3.023	54	6478	1.50	ug/L #	79
6) Bromomethane	3.461	94	126888	20.22	ug/L	99
7) Chloroethane	3.619	64	100232	19.78	ug/L	95
8) Trichlorofluoromethane	3.844	101	295328m	21.17	ug/L	
9) Ethyl Ether	4.118	59	140495	22.78	ug/L	90
10) 1,2-Dichlorotrifluoroe...	4.361	67	276330	28.70	ug/L	96
11) 1,1-Dichloroethene	4.398	61	327359	27.22	ug/L	98
12) Freon 113	4.465	101	208680	24.84	ug/L	95
13) Carbon Disulfide	4.471	76	699348	25.13	ug/L	99
14) Iodomethane	4.586	142	333487	24.43	ug/L	99
15) Allyl chloride	4.921	41	209696	20.33	ug/L	96
16) Methylene Chloride	5.042	49	259469	24.17	ug/L	97
17) Acetone	5.067	58	46725	96.50	ug/L	89
18) Methyl acetate	5.188	74	102519	122.58	ug/L	96
19) trans-1,2-Dichloroethene	5.231	61	308554	28.57	ug/L	98
20) Hexane	5.298	56	185135	25.75	ug/L	98
21) Methyl Tert Butyl Ether	5.341	73	488018	23.26	ug/L	99
22) Acetonitrile	5.596	40	58023	181.82	ug/L	99
23) Di-isopropyl ether	5.712	45	555900	23.67	ug/L	98
24) Chloroprene	5.870	53	237885	21.42	ug/L	98
25) 1,1-Dichloroethane	5.894	63	380838	26.45	ug/L	100
26) Acrylonitrile	5.925	53	190202	94.24	ug/L	94
27) ETBE	6.113	59	554100	23.11	ug/L	99
28) Vinyl acetate	6.107	43	994622	81.44	ug/L	100
29) cis-1,2-Dichloroethene	6.472	96	228306	24.61	ug/L	98
30) 2,2-Dichloropropane	6.606	77	309797	26.20	ug/L	96
31) Bromochloromethane	6.685	128	98032	23.58	ug/L	95
32) Cyclohexane	6.734	56	350518	26.25	ug/L	94
33) Chloroform	6.734	83	381429	24.47	ug/L	97
34) Ethyl acetate	6.807	43	402348	91.65	ug/L	96

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34051,VJ5326,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 12:35:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	29594	22.72 ug/L	97
37) Carbon Tetrachloride	6.934	117	316445m	26.91 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	340448	24.48 ug/L	97
39) 2-Butanone	7.020	43	193175	100.92 ug/L	95
40) 1,1-Dichloropropene	7.105	75	281147	26.15 ug/L	97
41) tert-Butyl Formate	7.184	59	1173500	206.68 ug/L	99
42) Propionitrile	7.330	54	142299	200.28 ug/L	82
43) Methacrylonitrile	7.354	41	591004	199.87 ug/L	98
44) Benzene	7.354	78	845431	25.05 ug/L	95
45) TAME	7.427	73	488666	22.33 ug/L	97
47) 1,2-Dichloroethane	7.549	62	254074	24.55 ug/L	98
48) Trichloroethene	7.932	95	224700	25.93 ug/L	97
49) Methylcyclohexane	7.957	83	398797	26.82 ug/L	99
50) Dibromomethane	8.358	93	112555	25.04 ug/L	96
51) 1,2-Dichloropropane	8.449	63	200908	24.01 ug/L	97
52) Bromodichloromethane	8.492	83	264381	24.74 ug/L	98
53) Methyl methacrylate	8.589	41	85852	20.94 ug/L	96
54) 2-Chloroethyl vinyl ether	9.003	63	455090	110.39 ug/L	96
55) cis-1,3-Dichloropropene	9.106	75	313633	26.12 ug/L	99
58) Toluene	9.350	91	894120	26.68 ug/L	99
59) 2-Nitropropane	9.556	41	131464	121.00 ug/L	96
60) 4-Methyl-2-pentanone	9.672	43	460941	112.24 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	282040	30.07 ug/L	98
62) Tetrachloroethene	9.757	166	278306	32.88 ug/L	97
63) Ethyl methacrylate	9.836	69	140924	18.90 ug/L	99
64) 1,1,2-Trichloroethane	9.903	83	135552	25.85 ug/L	97
65) Dibromochloromethane	10.098	129	185502	27.10 ug/L	98
66) 1,3-Dichloropropane	10.183	76	269907	25.38 ug/L	98
67) 1,2-Dibromoethane	10.360	107	159336	27.12 ug/L	97
68) 2-hexanone	10.487	43	314754	104.61 ug/L	99
69) 1-Chlorohexane	10.798	91	291286	27.08 ug/L	95
70) Ethylbenzene	10.858	91	1042467	26.58 ug/L	99
71) Chlorobenzene	10.864	112	599805	26.35 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	203373	27.23 ug/L	99
73) m,p-Xylene	10.998	91	1618082	54.36 ug/L	98
74) o-Xylene	11.436	91	810726	28.68 ug/L	99
75) Styrene	11.485	104	612710	25.45 ug/L	99
76) Bromoform	11.546	173	113283	25.35 ug/L	98
77) Isopropylbenzene	11.740	105	1013211	30.50 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.087	53	35266	20.36 ug/L	93
81) n-Propylbenzene	12.160	91	1222105	28.83 ug/L	99
82) Bromobenzene	12.185	156	254090	25.20 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.221	83	191987	24.94 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	879552	28.26 ug/L	100
85) 2-Chlorotoluene	12.349	91	839454	27.20 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	39975	24.47 ug/L	92
87) 1,2,3-Trichloropropane	12.385	110	50346	25.52 ug/L	94
88) Cyclohexanone	12.446	55	31605	147.63 ug/L	96
89) 4-Chlorotoluene	12.519	91	769282	27.70 ug/L	99
90) a-Methyl Styrene	12.750	118	8496	0.48 ug/L #	1

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34051,VJ5326,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 12:35:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	496914	27.64	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	880140	28.25	ug/L	97
93) Pentachloroethane	12.738	167	97936	16.14	ug/L	97
94) sec-Butylbenzene	12.866	105	1120033	29.87	ug/L	98
95) 4-Isopropyltoluene	13.000	119	951277	29.07	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	470269	26.99	ug/L	100
97) 1,4-Dichlorobenzene	13.219	146	468490	25.58	ug/L	99
98) n-Butylbenzene	13.432	92	521119	29.22	ug/L	98
99) Benzyl Chloride	13.450	126	64995	24.35	ug/L #	44
100) 1,2-Dichlorobenzene	13.645	146	423488	26.04	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	25127	23.59	ug/L	89
102) Hexachlorobutadiene	14.928	225	203588	28.00	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	292719	27.07	ug/L	99
104) Naphthalene	15.257	128	455157	28.11	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	246444	26.42	ug/L	99
107) Ethanol	4.282	45	22179	439.92	ug/L	100
108) acrolein	4.757	56	73754	97.43	ug/L	88
109) Tert Butyl Alcohol	5.377	59	106053	228.34	ug/L	99
110) tert Amyl alcohol	7.573	59	88059	265.47	ug/L	97
111) Isobutyl alcohol	7.452	42	60405	411.83	ug/L	93
112) 1,4-Dioxane	8.674	88	24499	467.28	ug/L	96
113) 3,3-Dimethyl-1-butanol	10.433	57	422363	1040.57	ug/L	98

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

7.3.3

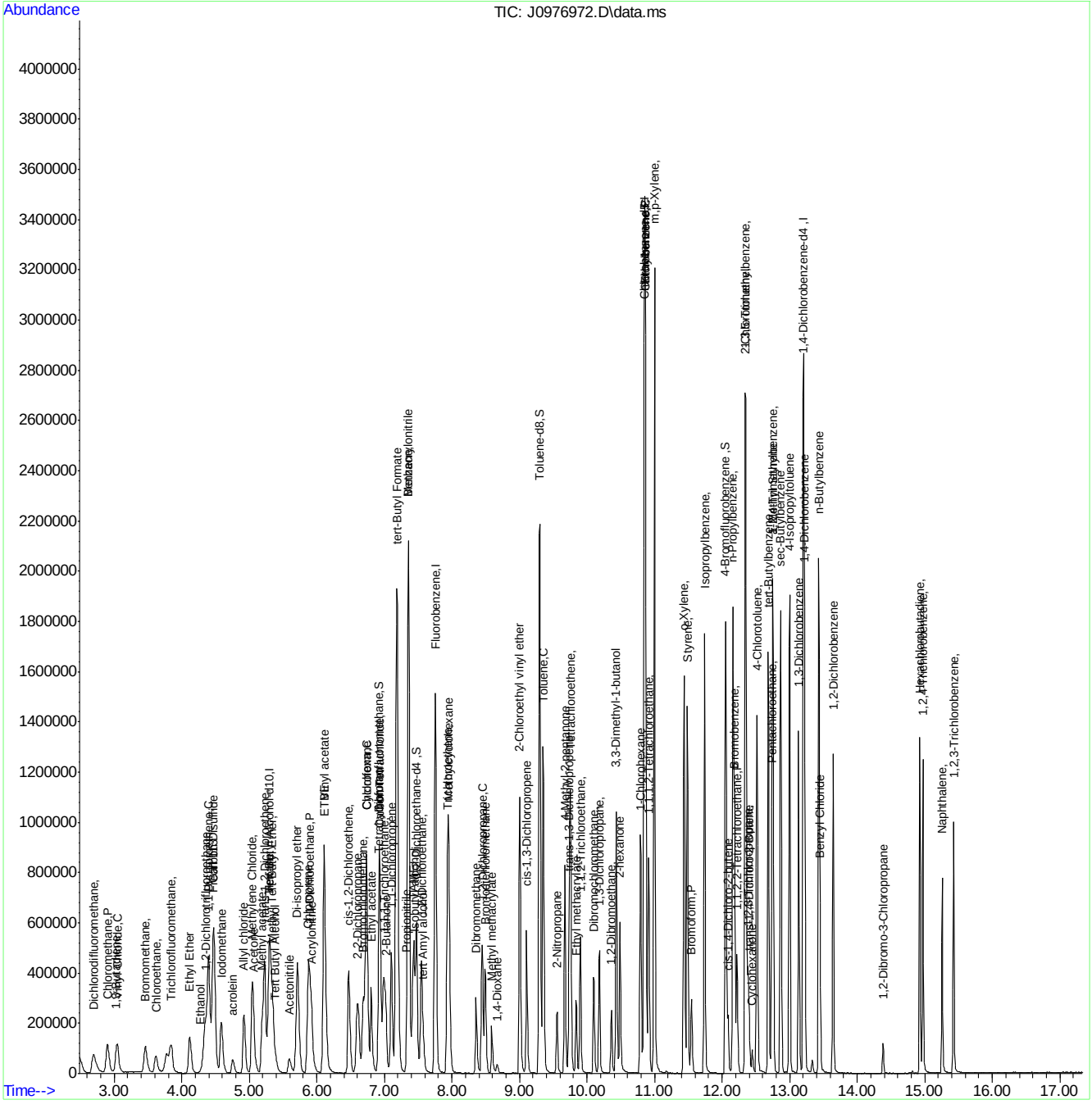
7

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34051,VJ5326,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 12:35:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

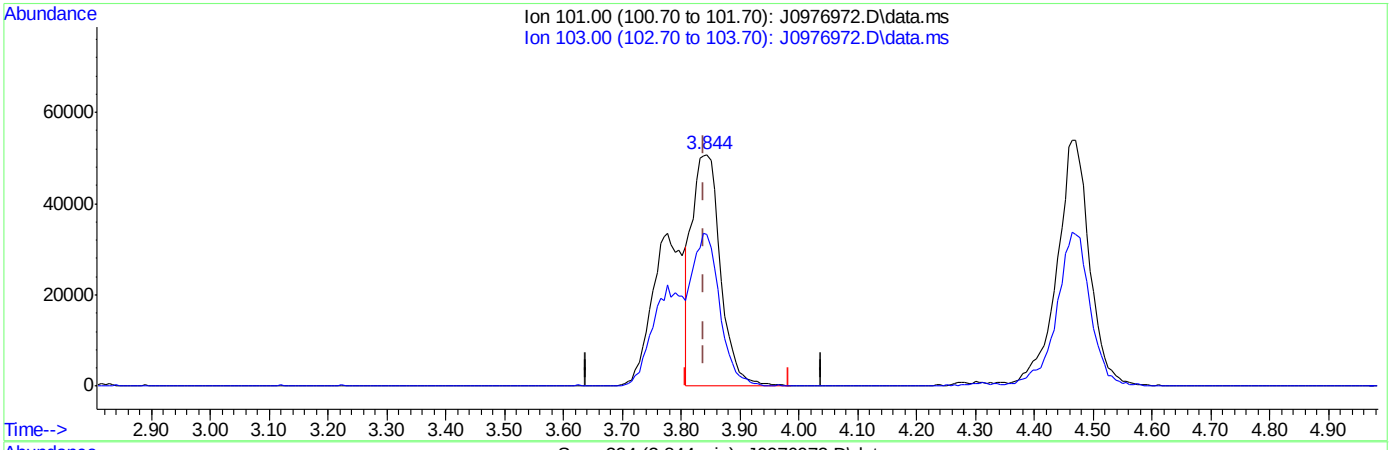
Sample Number:	VJ5326-BS	**Method:**	SW846 8260C
Lab FileID:	J0976972.D	**Analyst approved:**	06/07/16 08:32 Darshna Patel
Injection Time:	06/02/16 10:15	**Supervisor approved:**	06/07/16 09:58 Melissa Mangual

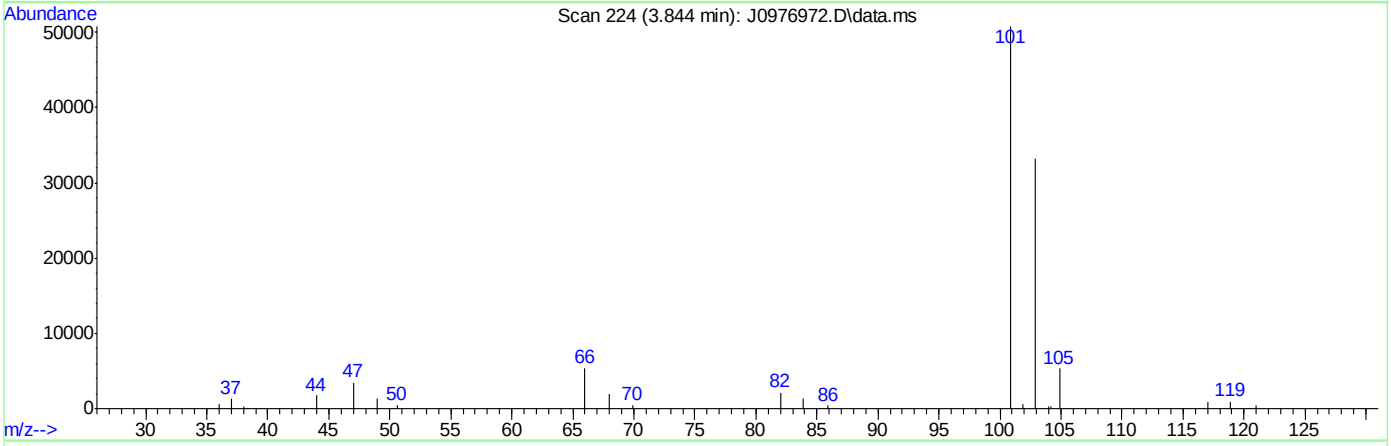
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34048,VJ5325,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 10:36:17 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976972.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 12.22ug/L

response 170439

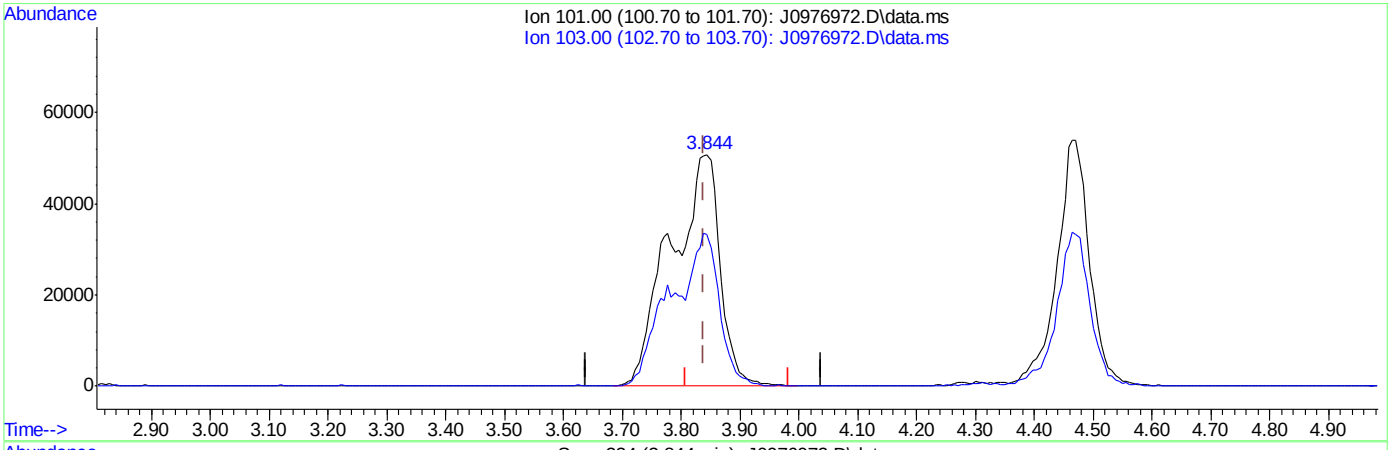
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	65.55
0.00	0.00	0.00
0.00	0.00	0.00

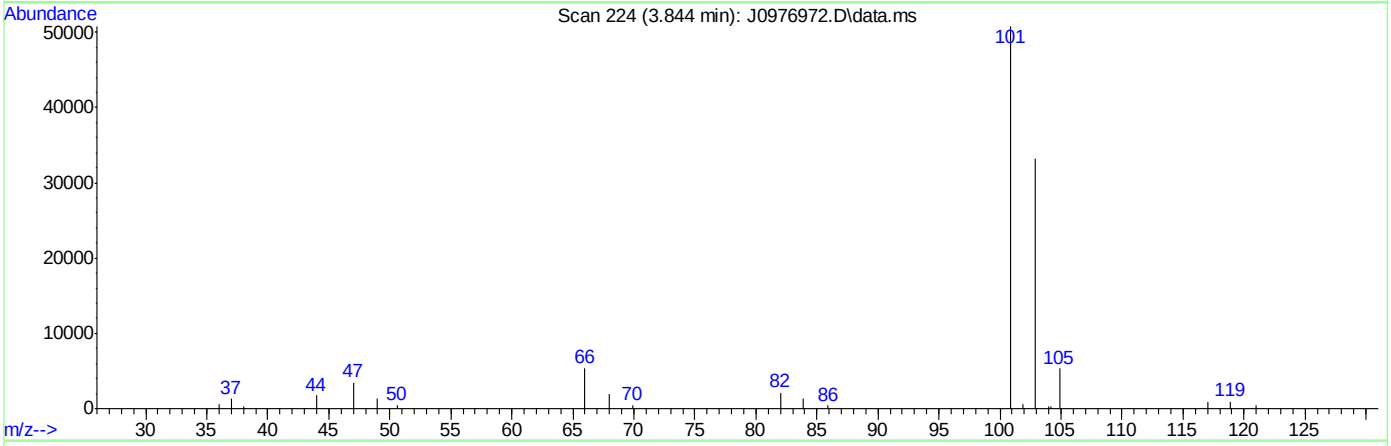
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34048,VJ5325,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 10:36:17 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976972.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 21.18ug/L m

response 295423

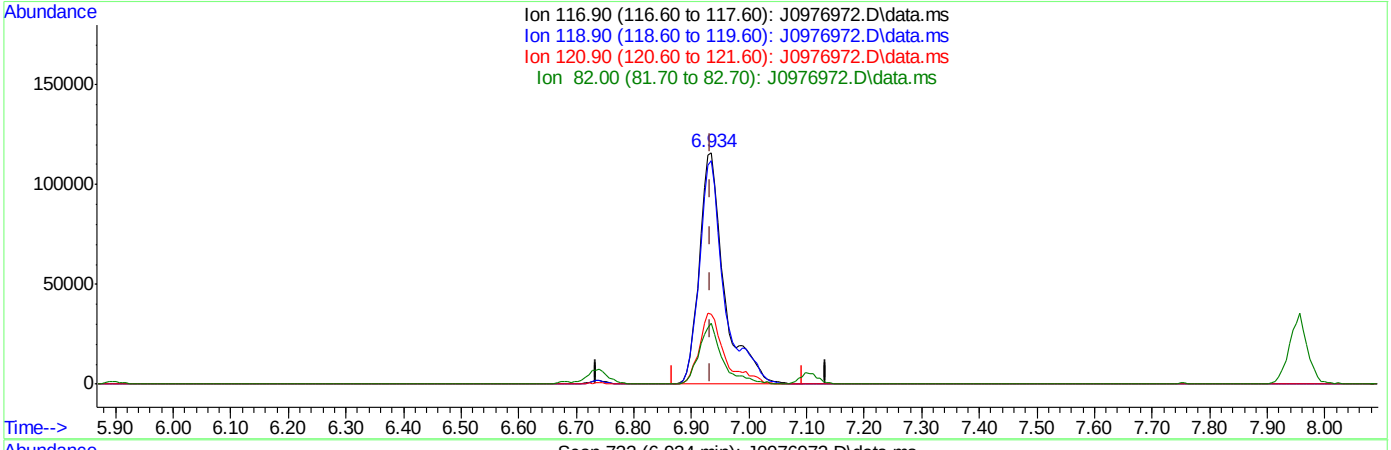
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	65.55
0.00	0.00	0.00
0.00	0.00	0.00

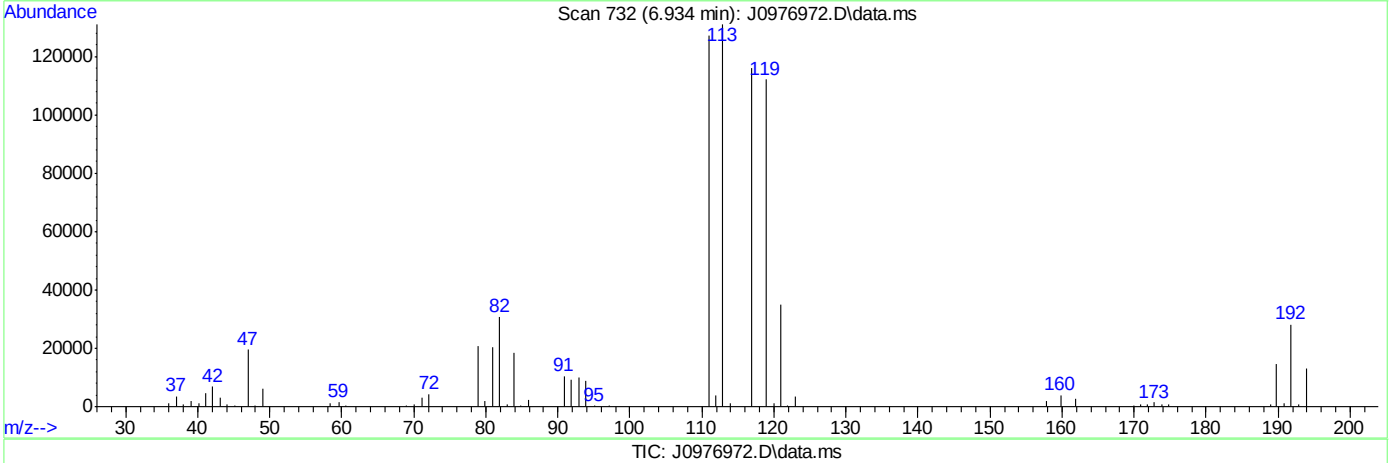
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34048,VJ5325,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 10:36:17 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976972.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 29.79ug/L

response 350306

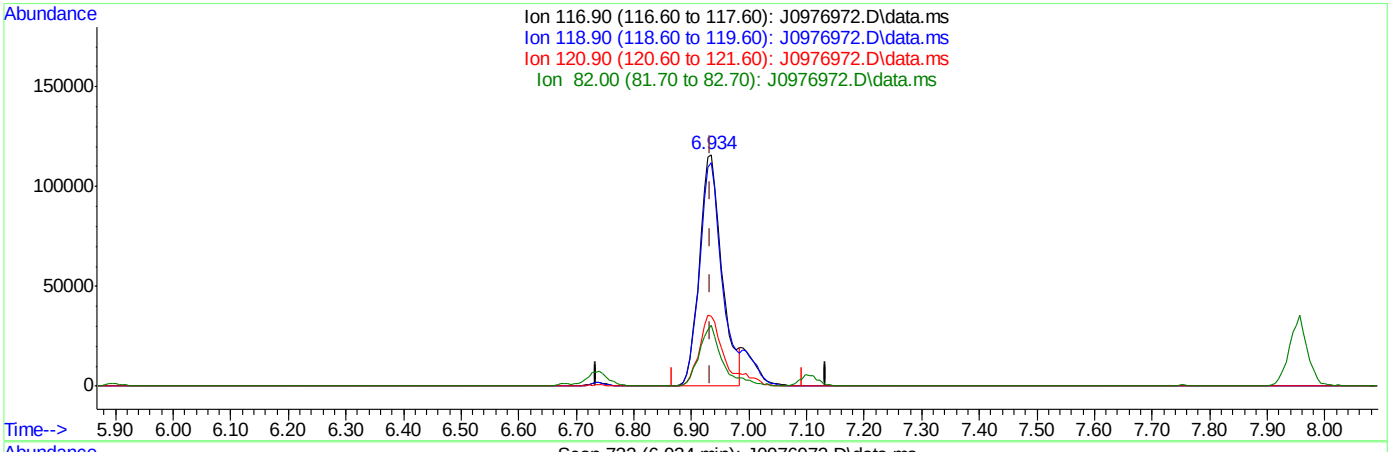
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	96.62
120.90	32.20	30.11
82.00	25.20	26.45

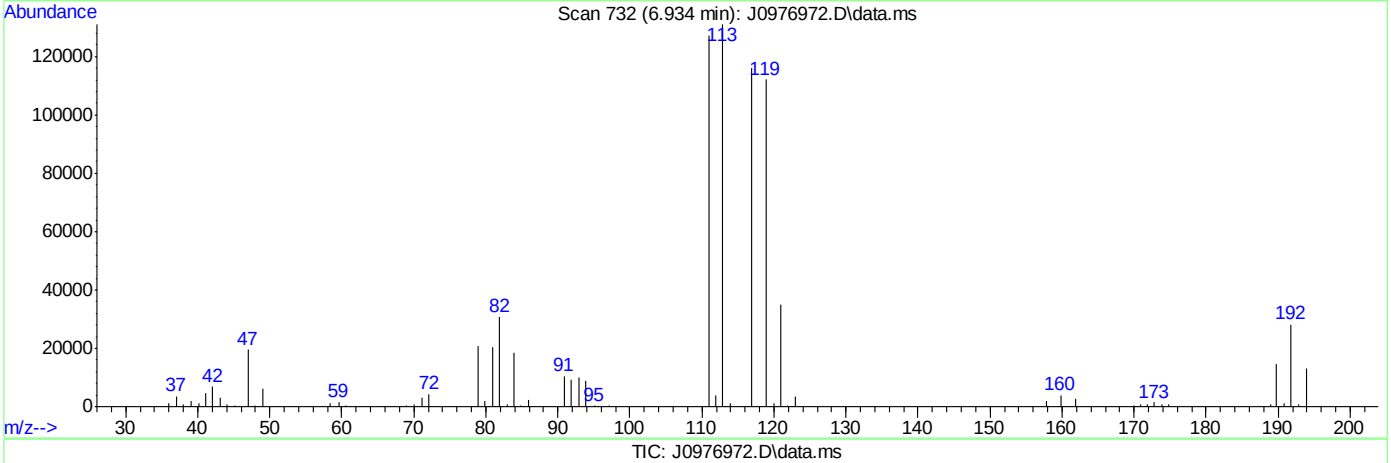
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34048,VJ5325,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 10:36:17 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976972.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 26.91ug/L m

response 316445

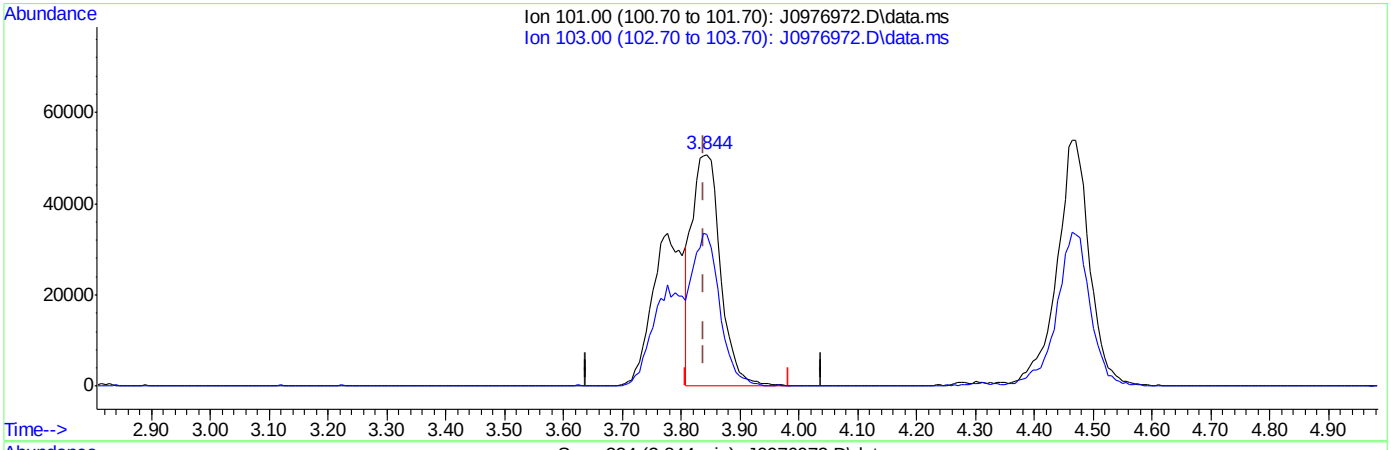
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	96.62
120.90	32.20	30.11
82.00	25.20	26.45

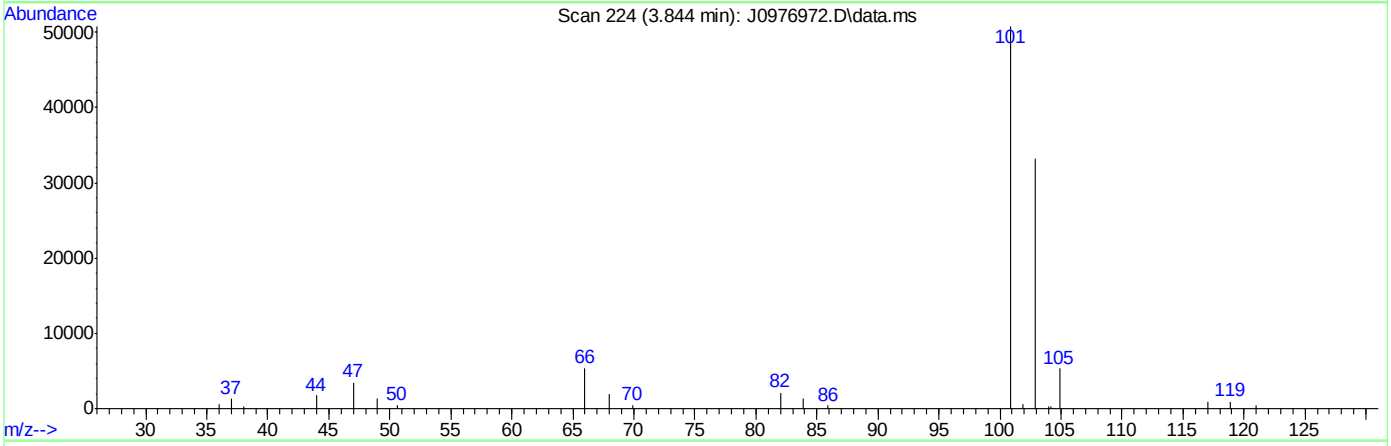
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34048,VJ5325,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 12:34:46 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976972.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 12.22ug/L

response 170439

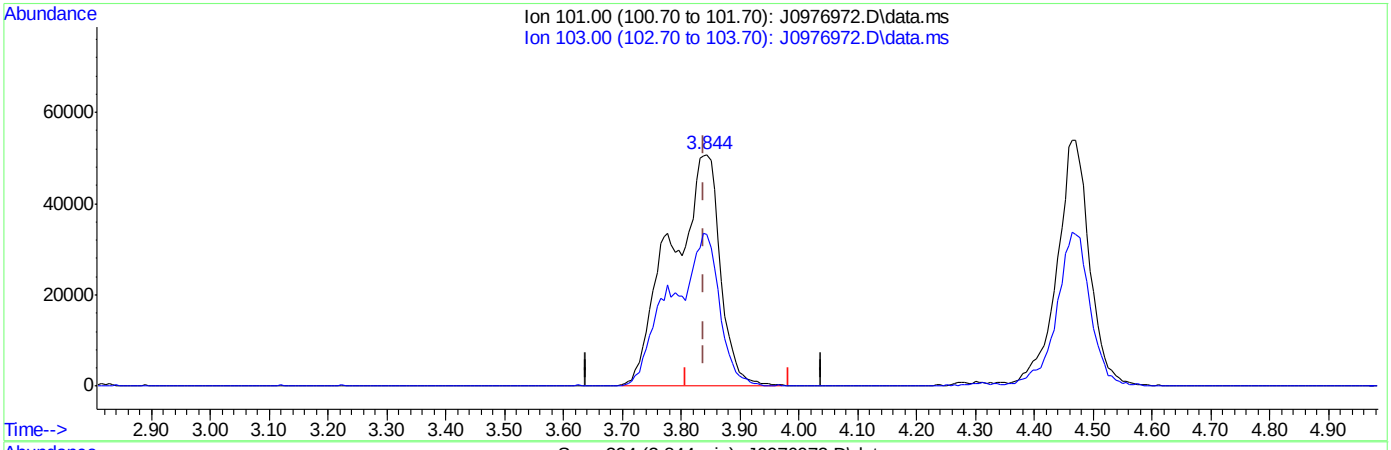
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	65.55
0.00	0.00	0.00
0.00	0.00	0.00

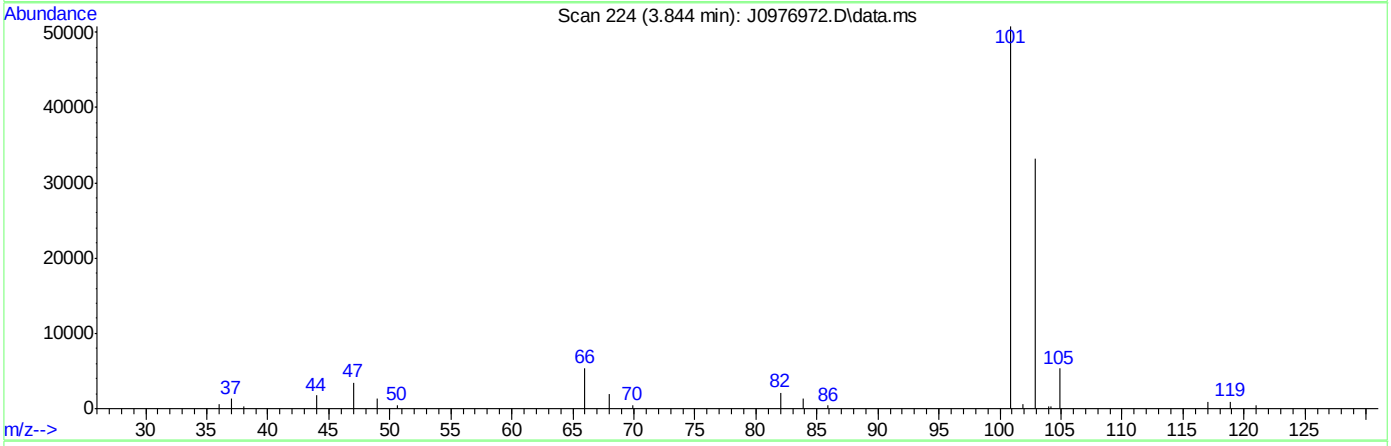
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34048,VJ5325,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 12:34:46 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976972.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 21.17ug/L m

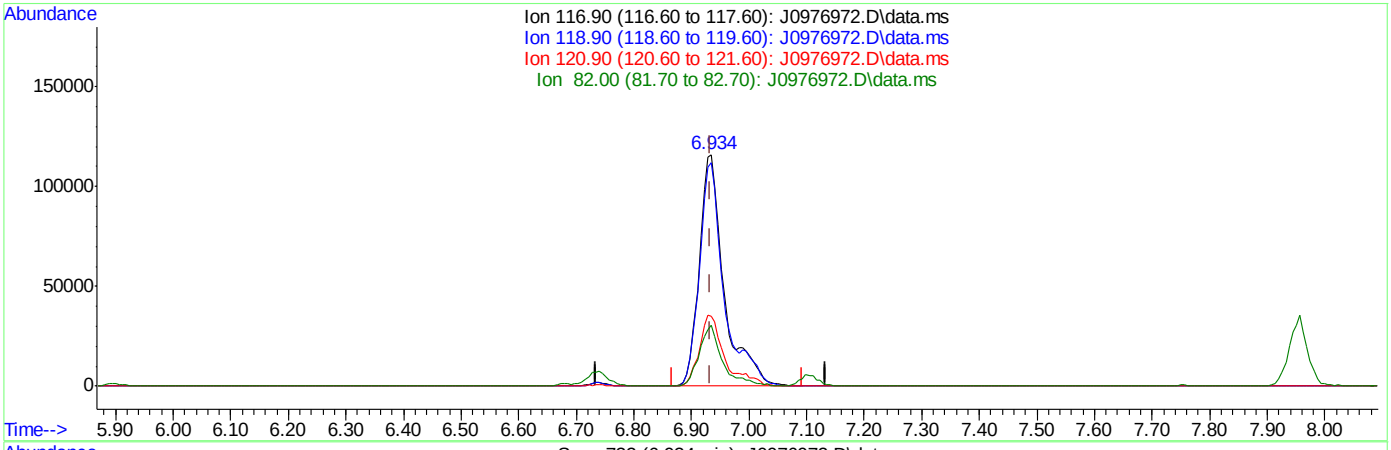
response 295328

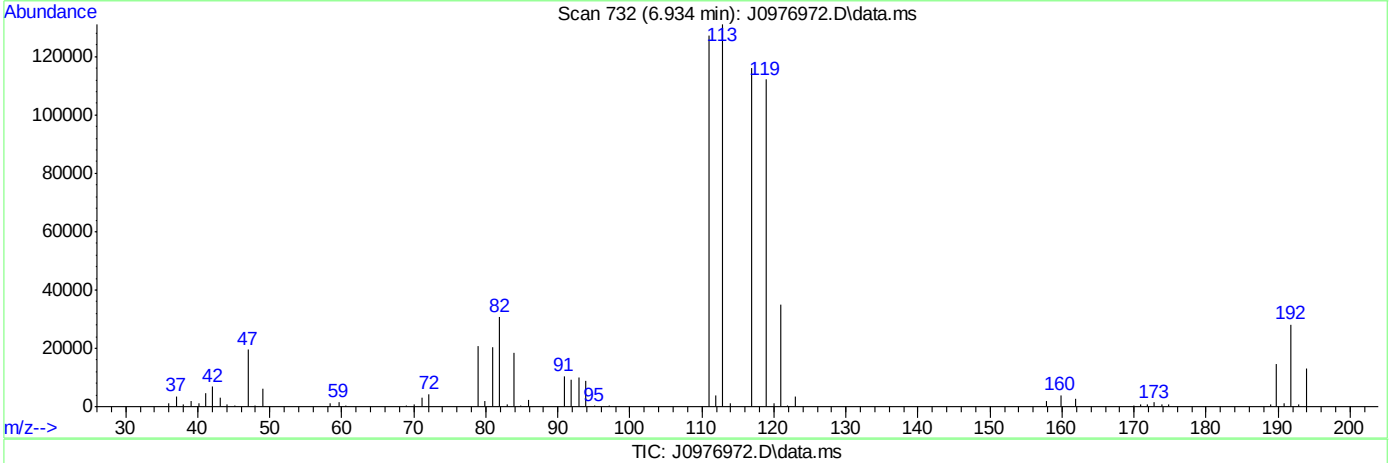
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	65.55
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34048,VJ5325,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 12:34:46 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976972.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 29.79ug/L

response 350306

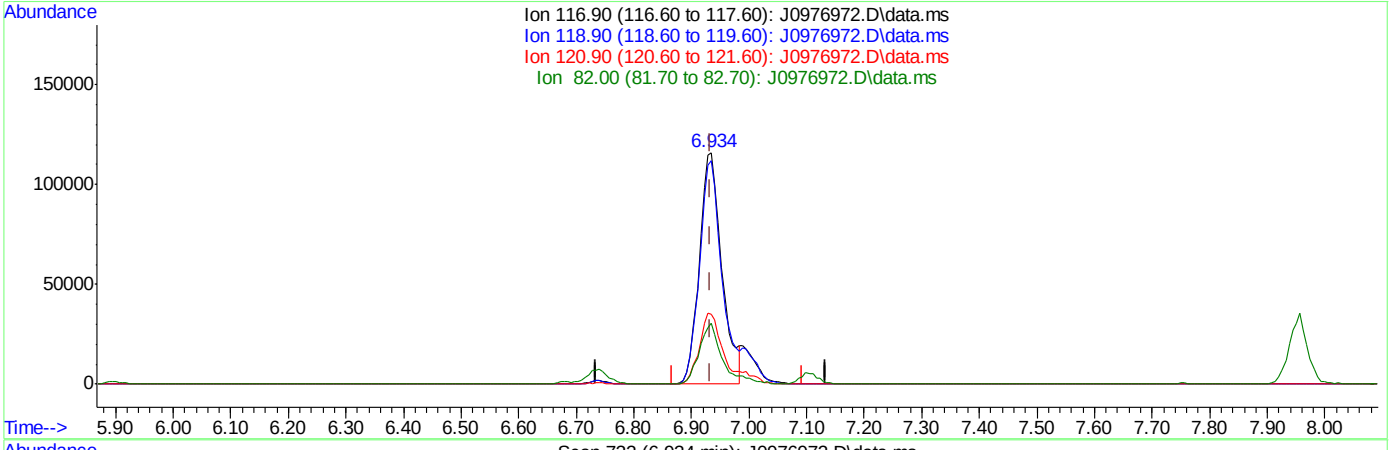
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	96.62
120.90	32.20	30.11
82.00	25.20	26.45

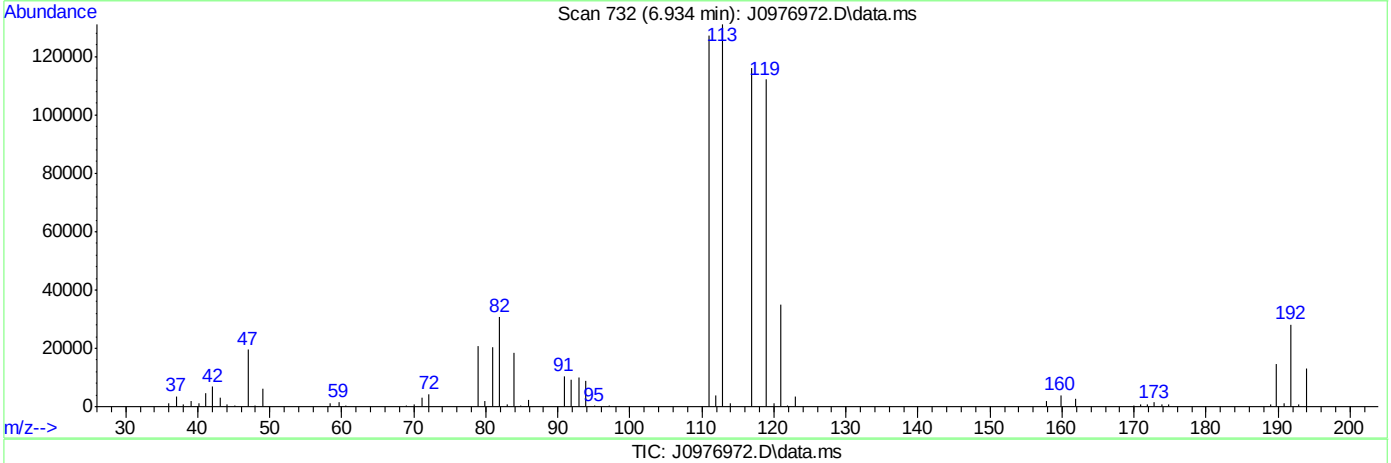
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060216\
Data File : J0976972.D
Acq On : 2 Jun 2016 10:15 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34048,VJ5325,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 02 12:34:46 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976972.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 26.91ug/L m

response 316445

Ion	Exp%	Act%
116.90	100	100
118.90	99.10	96.62
120.90	32.20	30.11
82.00	25.20	26.45

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/02/16 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116031.D
Acq On : 1 Jun 2016 12:58 pm
Operator : ericp
Sample : FA34367-3MS MA Inst : MSVOA5
Misc : ms34045,vc4610,4.86,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 01 13:17:29 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.883	96	1024400	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	790143	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	451518	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.523	65	99170	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.050	113	320336	49.29	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.58%			
44) 1,2-Dichloroethane-d4	6.610	65	356509	49.78	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 99.56%			
55) Toluene-d8	8.447	98	1089642	48.33	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 96.66%			
77) 4-Bromofluorobenzene	11.227	174	339982	47.27	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 94.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	512706	43.39	ug/Kg	96
3) Chloromethane	2.406	50	378158	48.26	ug/Kg	97
4) Vinyl Chloride	2.515	62	328627	44.89	ug/Kg	98
5) Bromomethane	2.868	94	186523	44.49	ug/Kg	95
6) Chloroethane	3.008	64	133847	43.93	ug/Kg	96
7) Trichlorofluoromethane	3.166	101	575407	42.94	ug/Kg	98
8) Ethyl Ether	3.434	59	181938	45.72	ug/Kg	97
9) 1,2-Dichlorotrifluoroe...	3.665	67	290500	44.31	ug/Kg	97
10) 1,1-Dichloroethene	3.659	61	453052	45.19	ug/Kg	96
11) Freon 113	3.720	101	262447	38.73	ug/Kg	95
12) Carbon Disulfide	3.708	76	731119	40.84	ug/Kg	95
13) Iodomethane	3.823	142	556952	40.46	ug/Kg	92
14) Allyl chloride	4.140	41	324924	38.73	ug/Kg	93
15) Methylene Chloride	4.249	49	318575	47.33	ug/Kg	96
16) Acetone	4.304	43	342382	262.45	ug/Kg	95
17) Methyl acetate	4.414	43	508271	236.31	ug/Kg	95
18) trans-1,2-Dichloroethene	4.414	61	384853	46.48	ug/Kg	99
19) Hexane	4.474	56	160004	40.97	ug/Kg	91
20) Methyl Tert Butyl Ether	4.511	73	808148	46.24	ug/Kg	97
21) Acetonitrile	4.791	41	153864	566.13	ug/Kg	92
22) Di-isopropyl ether	4.876	45	648468	44.35	ug/Kg	98
23) Chloroprene	5.016	53	495949	40.28	ug/Kg	93
24) 1,1-Dichloroethane	5.040	63	466418	44.77	ug/Kg	98
25) Acrylonitrile	5.101	52	244648	251.73	ug/Kg	96
26) ETBE	5.247	59	798621	44.06	ug/Kg	95
27) Vinyl acetate	5.271	43	1361354	203.81	ug/Kg	97
28) cis-1,2-Dichloroethene	5.588	96	327837	42.22	ug/Kg	97
29) 2,2-Dichloropropane	5.703	77	332219	40.42	ug/Kg	99
30) Bromochloromethane	5.801	128	160442	42.98	ug/Kg	94
31) Cyclohexane	5.807	84	363933	36.76	ug/Kg	97
32) Chloroform	5.861	83	585151	44.17	ug/Kg	98
33) Ethyl acetate	5.959	43	683767	241.86	ug/Kg	99
34) Tetrahydrofuran	6.038	42	40206	52.50	ug/Kg	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116031.D
Acq On : 1 Jun 2016 12:58 pm
Operator : ericp
Sample : FA34367-3MS MA Inst : MSVOA5
Misc : ms34045,vc4610,4.86,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 01 13:17:29 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.014	117	582943	40.47	ug/Kg	95
37)	1,1,1-Trichloroethane	6.087	97	528409	40.41	ug/Kg	94
38)	2-Butanone	6.178	43	391504	241.28	ug/Kg	97
39)	1,1-Dichloropropene	6.208	75	367532	40.71	ug/Kg	96
40)	Propionitrile	6.500	54	216719	523.95	ug/Kg	88
41)	Methacrylonitrile	6.512	41	917232	480.02	ug/Kg	98
42)	Benzene	6.470	78	967008	43.67	ug/Kg	98
43)	TAME	6.555	73	698741	41.92	ug/Kg	96
45)	1,2-Dichloroethane	6.677	62	404469	44.80	ug/Kg	98
46)	Trichloroethene	7.054	95	299272	43.08	ug/Kg	95
47)	Methylcyclohexane	7.048	83	392621	36.37	ug/Kg	94
48)	Dibromomethane	7.492	93	167699	40.94	ug/Kg	96
49)	1,2-Dichloropropane	7.583	63	201510	37.33	ug/Kg	90
50)	Bromodichloromethane	7.638	83	375555	38.39	ug/Kg	96
51)	Methyl methacrylate	7.766	41	131367	39.90	ug/Kg	94
52)	2-Chloroethyl vinyl ether	8.185	63	473851	227.48	ug/Kg	98
53)	cis-1,3-Dichloropropene	8.264	75	381024	42.90	ug/Kg	93
56)	Toluene	8.502	91	1058707	42.32	ug/Kg	97
57)	2-Nitropropane	8.739	41	260821	173.14	ug/Kg	95
58)	4-Methyl-2-pentanone	8.867	43	865741	235.27	ug/Kg	98
59)	trans-1,3-Dichloropropene	8.909	75	278007	43.27	ug/Kg	95
60)	Tetrachloroethene	8.891	166	409564	47.91	ug/Kg	96
61)	Ethyl methacrylate	9.037	69	226733	40.12	ug/Kg	96
62)	1,1,2-Trichloroethane	9.074	83	155371	42.35	ug/Kg	95
63)	Dibromochloromethane	9.262	129	281751	39.87	ug/Kg	91
64)	1,3-Dichloropropane	9.353	76	298974	41.71	ug/Kg	98
65)	1,2-Dibromoethane	9.512	107	207795	42.52	ug/Kg	99
66)	2-hexanone	9.694	43	495989	208.72	ug/Kg	95
67)	1-Chlorohexane	9.974	91	314382	36.75	ug/Kg	93
68)	Ethylbenzene	10.029	91	1126692	42.87	ug/Kg	99
69)	Chlorobenzene	10.023	112	643044	42.98	ug/Kg	95
70)	1,1,1,2-Tetrachloroethane	10.077	131	345659	40.67	ug/Kg	93
71)	m,p-Xylene	10.169	91	1807452	81.27	ug/Kg	99
72)	o-Xylene	10.607	91	1140759	43.41	ug/Kg	97
73)	Styrene	10.661	104	664743	40.34	ug/Kg	98
74)	Bromoform	10.710	173	150076	36.14	ug/Kg	93
75)	Isopropylbenzene	10.917	105	1356418	41.77	ug/Kg	100
78)	cis-1,4-Dichloro-2-butene	11.282	53	43808	32.56	ug/Kg	90
79)	n-Propylbenzene	11.337	91	1337695	44.21	ug/Kg	97
80)	Bromobenzene	11.343	156	301566	42.16	ug/Kg	96
81)	1,1,2,2-Tetrachloroethane	11.416	83	252481	42.23	ug/Kg	100
82)	1,3,5-Trimethylbenzene	11.531	105	1143302	42.75	ug/Kg	98
83)	2-Chlorotoluene	11.519	91	1050408	44.24	ug/Kg	99
84)	trans-1,4-Dichloro-2-B...	11.598	53	44328	34.91	ug/Kg	96
85)	1,2,3-Trichloropropane	11.568	110	80054	40.72	ug/Kg	96
86)	Cyclohexanone	11.629	55	48333	195.28	ug/Kg	94
87)	4-Chlorotoluene	11.683	91	878218	44.77	ug/Kg	100
88)	tert-Butylbenzene	11.866	91	759593	41.03	ug/Kg	92
89)	1,2,4-Trimethylbenzene	11.933	105	1138695	43.96	ug/Kg	100
90)	Pentachloroethane	11.909	167	168305	31.01	ug/Kg	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116031.D
Acq On : 1 Jun 2016 12:58 pm
Operator : ericp
Sample : FA34367-3MS MA Inst : MSVOA5
Misc : ms34045,vc4610,4.86,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 01 13:17:29 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

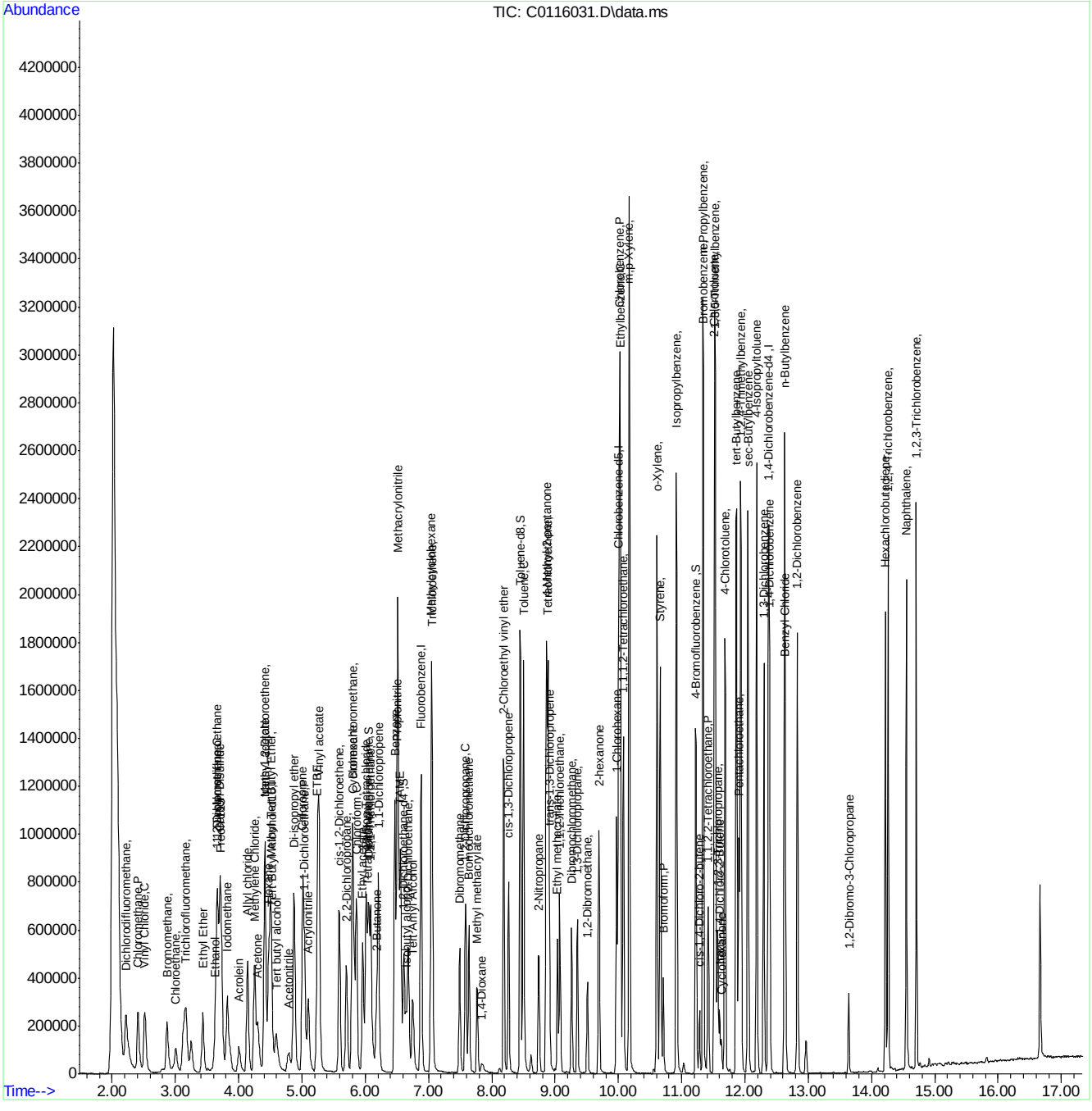
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.048	105	1387076	40.17	ug/Kg	97
92)	4-Isopropyltoluene	12.182	119	1257164	42.07	ug/Kg	99
93)	1,3-Dichlorobenzene	12.298	146	593672	43.64	ug/Kg	95
94)	1,4-Dichlorobenzene	12.389	146	546119	44.01	ug/Kg	94
95)	n-Butylbenzene	12.626	92	625509	42.25	ug/Kg	95
96)	Benzyl Chloride	12.639	126	95141	34.87	ug/Kg	96
97)	1,2-Dichlorobenzene	12.827	146	631821	43.74	ug/Kg	99
98)	1,2-Dibromo-3-Chloropr...	13.642	75	68569	38.70	ug/Kg	92
99)	Hexachlorobutadiene	14.220	225	284463	35.74	ug/Kg	94
100)	1,2,4-Trichlorobenzene	14.263	180	494290	40.89	ug/Kg	98
101)	Naphthalene	14.549	128	1086884	43.48	ug/Kg	97
102)	1,2,3-Trichlorobenzene	14.707	180	498848	42.28	ug/Kg	98
104)	Ethanol	3.623	45	27018m	1297.25	ug/Kg	
105)	Acrolein	4.006	56	119508	169.82	ug/Kg	96
106)	Tert butyl alcohol	4.596	59	280687	526.41	ug/Kg	95
107)	Isobutyl alcohol	6.646	42	81826	1053.48	ug/Kg	94
108)	Tert Amyl Alcohol	6.750	59	191969	448.60	ug/Kg	93
109)	1,4-Dioxane	7.845	88	48147	1047.57	ug/Kg	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116031.D
Acq On : 1 Jun 2016 12:58 pm
Operator : ericp
Sample : FA34367-3MS MA Inst : MSVOA5
Misc : ms34045,vc4610,4.86,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 01 13:17:29 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

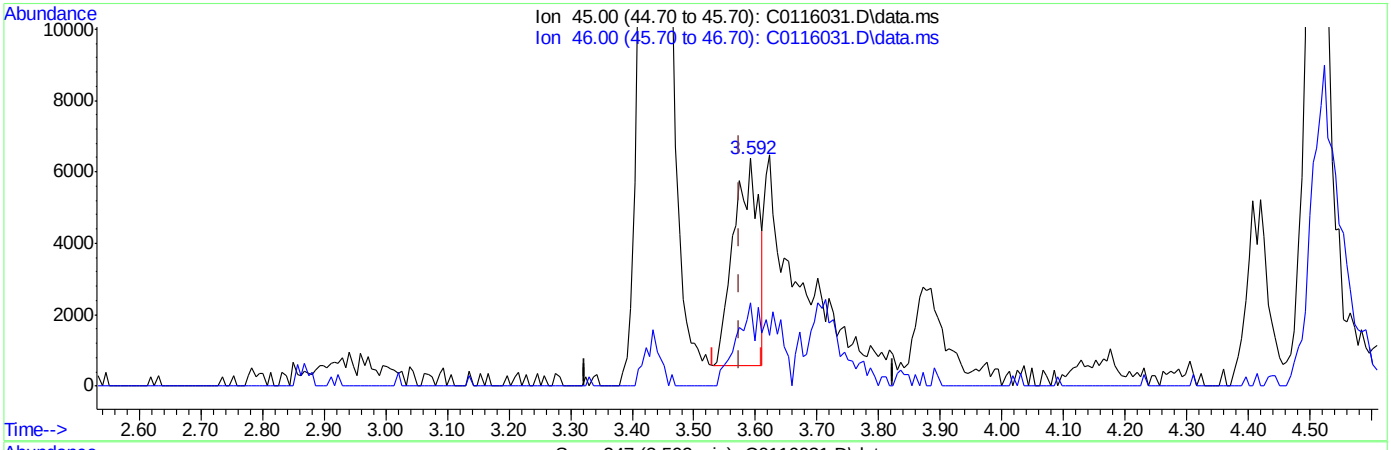
Sample Number:	FA34367-3MS	**Method:**	SW846 8260C
Lab FileID:	C0116031.D	**Analyst approved:**	06/02/16 09:27 Eric Parrish
Injection Time:	06/01/16 12:58	**Supervisor approved:**	06/02/16 10:49 Juan Garcia

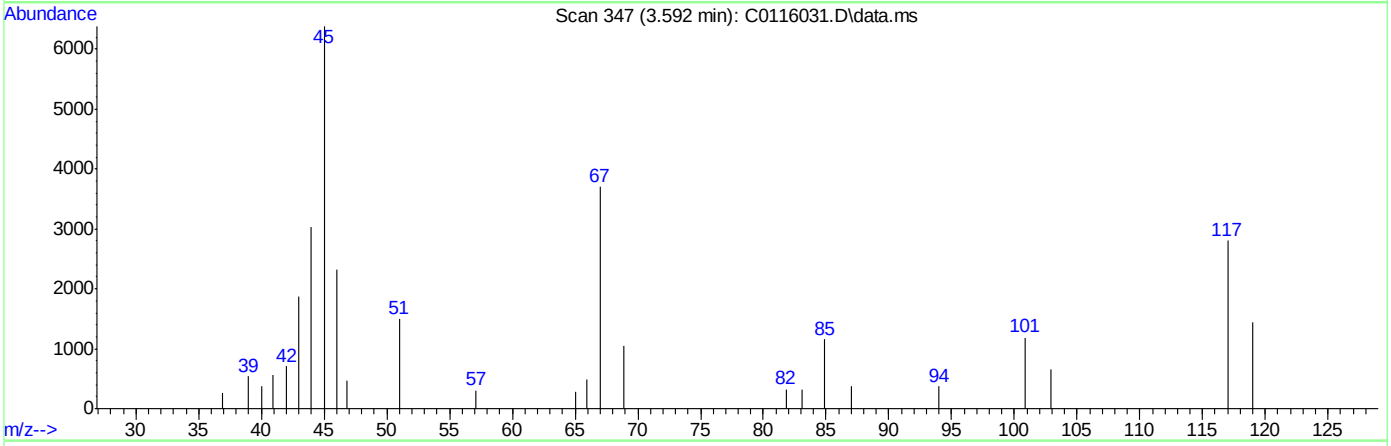
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.62	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116031.D
Acq On : 1 Jun 2016 12:58 pm
Operator : ericp
Sample : FA34367-3MS MA Inst : MSVOA5
Misc : ms34045,vc4610,4.86,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 01 13:17:07 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration





TIC: C0116031.D\data.ms

(104) Ethanol

3.592min (+0.018) 787.39ug/Kg

response 16399

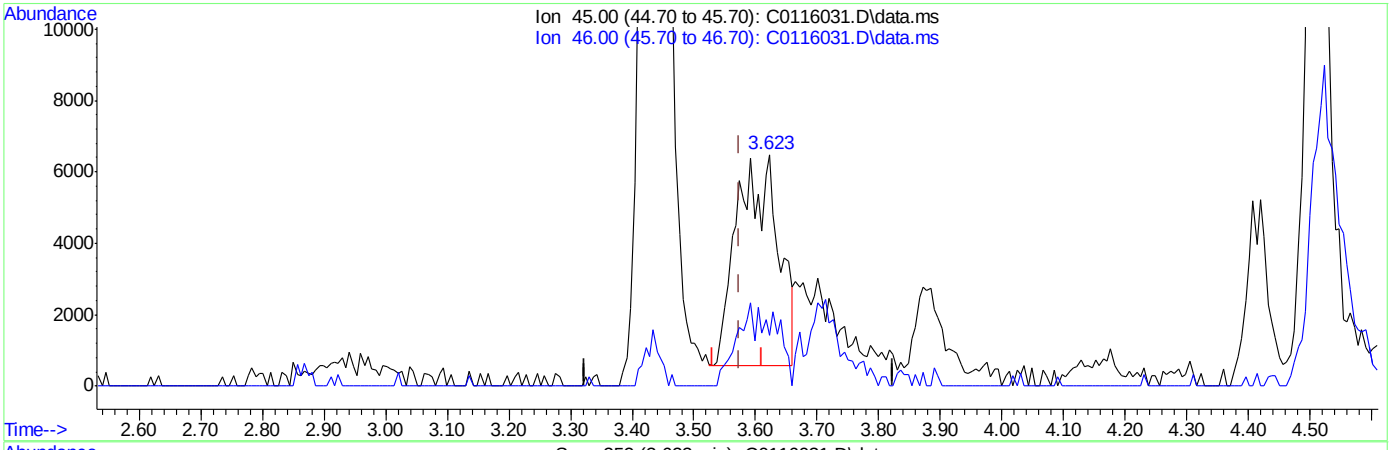
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	40.08
0.00	0.00	0.00
0.00	0.00	0.00

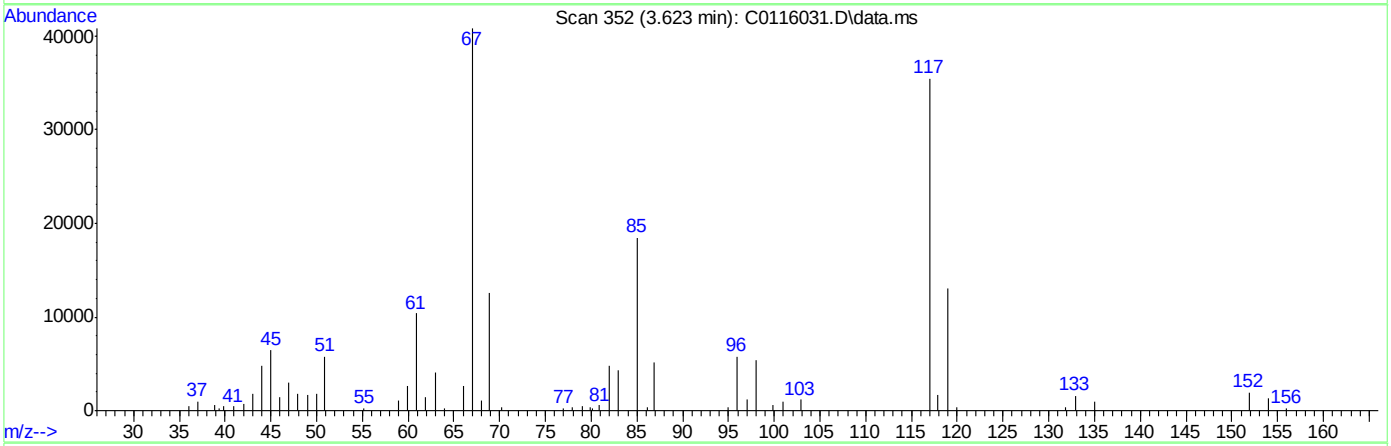
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116031.D
Acq On : 1 Jun 2016 12:58 pm
Operator : ericp
Sample : FA34367-3MS MA Inst : MSVOA5
Misc : ms34045,vc4610,4.86,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jun 01 13:17:07 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration





TIC: C0116031.D\data.ms

(104) Ethanol

3.623min (+0.049) 1297.25ug/Kg m

response 27018

Ion	Exp%	Act%
45.00	100	100
46.00	30.00	21.90
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/02/16 10:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116032.D
Acq On : 1 Jun 2016 1:23 pm
Operator : ericp
Sample : FA34367-3MSD MA Inst : MSVOA5
Misc : ms34045,vc4610,4.60,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 13:42:40 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	996173	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	729637	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	410430	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.517	65	103510	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.050	113	325991	51.58	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.16%			
44) 1,2-Dichloroethane-d4	6.610	65	342523	49.19	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 98.38%			
55) Toluene-d8	8.447	98	1052986	50.57	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.14%			
77) 4-Bromofluorobenzene	11.227	174	317558	48.58	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	559005	48.91	ug/Kg	92
3) Chloromethane	2.412	50	388216	51.08	ug/Kg	95
4) Vinyl Chloride	2.528	62	359978	50.71	ug/Kg	100
5) Bromomethane	2.868	94	207728	51.58	ug/Kg	94
6) Chloroethane	3.008	64	156609	54.12	ug/Kg	98
7) Trichlorofluoromethane	3.166	101	631926	49.17	ug/Kg	100
8) Ethyl Ether	3.434	59	204169	53.34	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.665	67	318077	50.34	ug/Kg	94
10) 1,1-Dichloroethene	3.665	61	481219	49.66	ug/Kg	98
11) Freon 113	3.720	101	284242	43.41	ug/Kg	94
12) Carbon Disulfide	3.708	76	793090	45.92	ug/Kg	91
13) Iodomethane	3.823	142	611729	46.01	ug/Kg	89
14) Allyl chloride	4.140	41	328185	40.32	ug/Kg	91
15) Methylene Chloride	4.249	49	354234	54.70	ug/Kg	94
16) Acetone	4.304	43	341314	269.29	ug/Kg	98
17) Methyl acetate	4.414	43	546662	262.52	ug/Kg	97
18) trans-1,2-Dichloroethene	4.414	61	413256	51.70	ug/Kg	99
19) Hexane	4.481	56	169461	44.77	ug/Kg	90
20) Methyl Tert Butyl Ether	4.511	73	866368	51.28	ug/Kg	96
21) Acetonitrile	4.791	41	143192	541.24	ug/Kg	94
22) Di-isopropyl ether	4.876	45	690489	48.82	ug/Kg	99
23) Chloroprene	5.016	53	525234	44.08	ug/Kg	94
24) 1,1-Dichloroethane	5.040	63	495830	49.20	ug/Kg	99
25) Acrylonitrile	5.101	52	266669	282.88	ug/Kg	94
26) ETBE	5.247	59	835423	47.63	ug/Kg	98
27) Vinyl acetate	5.271	43	1581368	246.56	ug/Kg	97
28) cis-1,2-Dichloroethene	5.594	96	356366	47.48	ug/Kg	97
29) 2,2-Dichloropropane	5.703	77	349896	44.09	ug/Kg	97
30) Bromochloromethane	5.801	128	171131	47.35	ug/Kg	96
31) Cyclohexane	5.807	84	388827	40.54	ug/Kg	97
32) Chloroform	5.861	83	622530	48.58	ug/Kg	98
33) Ethyl acetate	5.959	43	687587	250.11	ug/Kg	100
34) Tetrahydrofuran	6.044	42	39616	53.19	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116032.D
Acq On : 1 Jun 2016 1:23 pm
Operator : ericp
Sample : FA34367-3MSD MA Inst : MSVOA5
Misc : ms34045,vc4610,4.60,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 13:42:40 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon Tetrachloride	6.014	117	515095	36.61	ug/Kg	98
37) 1,1,1-Trichloroethane	6.087	97	561362	44.44	ug/Kg	93
38) 2-Butanone	6.178	43	387983	245.88	ug/Kg	94
39) 1,1-Dichloropropene	6.208	75	387667	44.32	ug/Kg	94
40) Propionitrile	6.500	54	231127	576.02	ug/Kg	94
41) Methacrylonitrile	6.519	41	963213	520.49	ug/Kg	98
42) Benzene	6.470	78	1002867	46.73	ug/Kg	97
43) TAME	6.555	73	761303	47.19	ug/Kg	96
45) 1,2-Dichloroethane	6.677	62	425522	48.68	ug/Kg	98
46) Trichloroethene	7.054	95	307540	45.52	ug/Kg	94
47) Methylcyclohexane	7.042	83	425465	40.74	ug/Kg	97
48) Dibromomethane	7.492	93	178241	44.74	ug/Kg	95
49) 1,2-Dichloropropane	7.589	63	240984	45.91	ug/Kg	90
50) Bromodichloromethane	7.638	83	428459	45.03	ug/Kg	97
51) Methyl methacrylate	7.766	41	135453	42.31	ug/Kg	91
52) 2-Chloroethyl vinyl ether	8.185	63	428909	211.74	ug/Kg	97
53) cis-1,3-Dichloropropene	8.265	75	351421	40.69	ug/Kg	95
56) Toluene	8.502	91	1069646	46.57	ug/Kg	97
57) 2-Nitropropane	8.745	41	261068	187.67	ug/Kg	93
58) 4-Methyl-2-pentanone	8.867	43	907454	270.03	ug/Kg	98
59) trans-1,3-Dichloropropene	8.909	75	253429	42.72	ug/Kg	96
60) Tetrachloroethene	8.891	166	346220	43.86	ug/Kg	97
61) Ethyl methacrylate	9.037	69	228609	43.81	ug/Kg	99
62) 1,1,2-Trichloroethane	9.074	83	154235	45.53	ug/Kg	94
63) Dibromochloromethane	9.262	129	285832	43.80	ug/Kg	94
64) 1,3-Dichloropropane	9.353	76	290337	43.86	ug/Kg	96
65) 1,2-Dibromoethane	9.512	107	190691	42.26	ug/Kg	99
66) 2-hexanone	9.694	43	470762	214.53	ug/Kg	94
67) 1-Chlorohexane	9.974	91	320336	40.56	ug/Kg	93
68) Ethylbenzene	10.029	91	1146001	47.62	ug/Kg	97
69) Chlorobenzene	10.023	112	632446	45.78	ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.077	131	370241	47.18	ug/Kg	95
71) m,p-Xylene	10.175	91	1853734	91.55	ug/Kg	97
72) o-Xylene	10.607	91	1178786	49.08	ug/Kg	98
73) Styrene	10.661	104	661636	43.48	ug/Kg	98
74) Bromoform	10.710	173	141476	36.89	ug/Kg	94
75) Isopropylbenzene	10.917	105	1434045	48.45	ug/Kg	100
78) cis-1,4-Dichloro-2-butene	11.282	53	30695	25.10	ug/Kg	85
79) n-Propylbenzene	11.337	91	1387402	51.16	ug/Kg	99
80) Bromobenzene	11.343	156	302149	46.47	ug/Kg	93
81) 1,1,2,2-Tetrachloroethane	11.416	83	265679	48.88	ug/Kg	98
82) 1,3,5-Trimethylbenzene	11.531	105	1189951	49.58	ug/Kg	98
83) 2-Chlorotoluene	11.519	91	1085031	50.83	ug/Kg	99
84) trans-1,4-Dichloro-2-B...	11.598	53	34032	29.48	ug/Kg	75
85) 1,2,3-Trichloropropane	11.568	110	83167	46.53	ug/Kg	95
86) Cyclohexanone	11.629	55	47522	211.46	ug/Kg	87
87) 4-Chlorotoluene	11.683	91	868084	48.97	ug/Kg	99
88) tert-Butylbenzene	11.866	91	788804	47.24	ug/Kg	94
89) 1,2,4-Trimethylbenzene	11.933	105	1161867	49.90	ug/Kg	97
90) Pentachloroethane	11.909	167	243325	49.32	ug/Kg	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116032.D
Acq On : 1 Jun 2016 1:23 pm
Operator : ericp
Sample : FA34367-3MSD MA Inst : MSVOA5
Misc : ms34045,vc4610,4.60,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 13:42:40 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

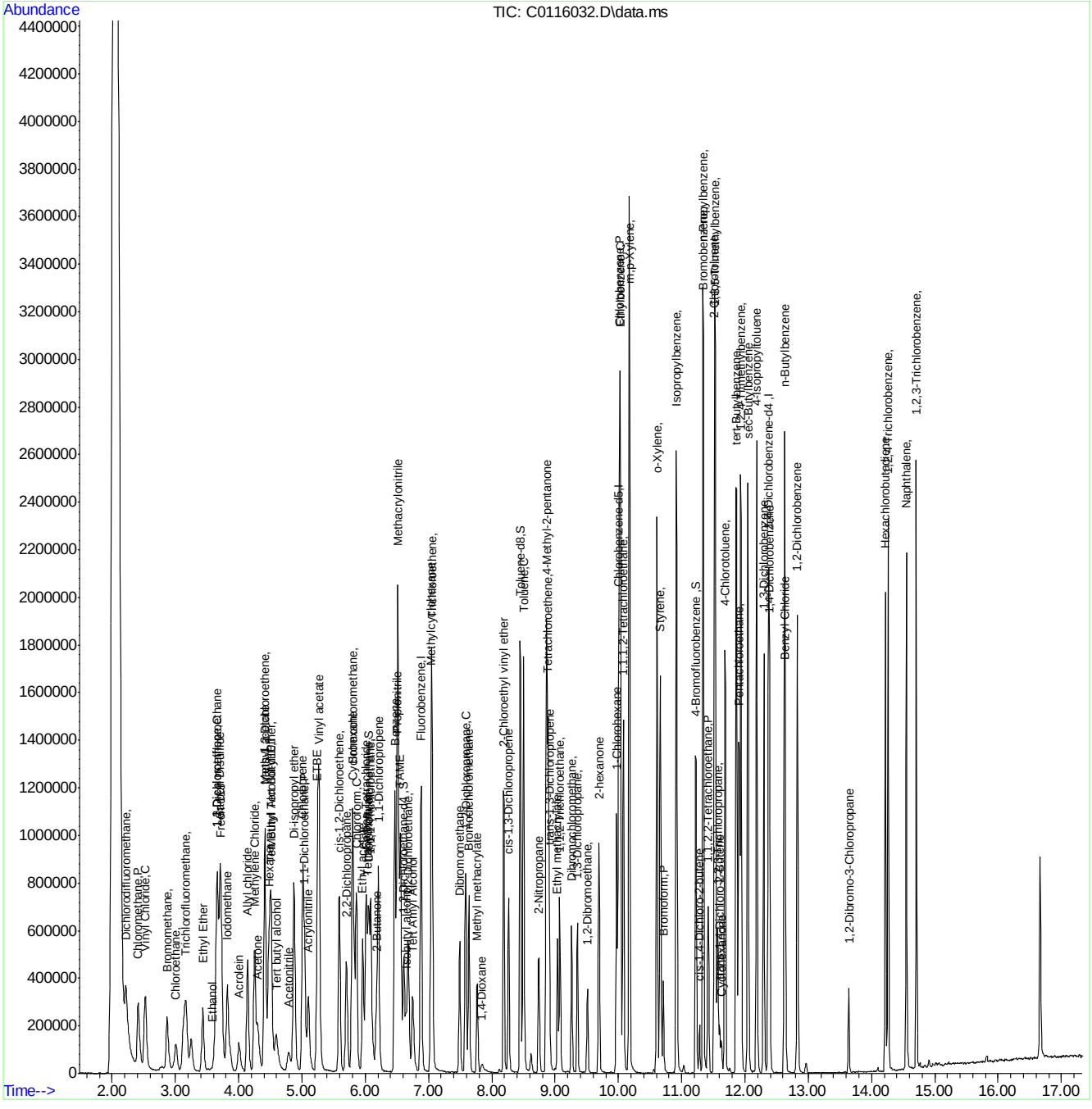
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.048	105	1461481	47.28	ug/Kg	97
92)	4-Isopropyltoluene	12.188	119	1301355	48.48	ug/Kg	98
93)	1,3-Dichlorobenzene	12.298	146	610812	49.78	ug/Kg	95
94)	1,4-Dichlorobenzene	12.389	146	551264	48.87	ug/Kg	94
95)	n-Butylbenzene	12.626	92	634917	47.56	ug/Kg	97
96)	Benzyl Chloride	12.639	126	93984	37.90	ug/Kg#	80
97)	1,2-Dichlorobenzene	12.827	146	647245	49.69	ug/Kg	99
98)	1,2-Dibromo-3-Chloropr...	13.642	75	68710	42.67	ug/Kg	90
99)	Hexachlorobutadiene	14.220	225	292006	40.36	ug/Kg	95
100)	1,2,4-Trichlorobenzene	14.263	180	517850	47.61	ug/Kg	99
101)	Naphthalene	14.549	128	1137059	50.72	ug/Kg	97
102)	1,2,3-Trichlorobenzene	14.707	180	530191	49.98	ug/Kg	98
104)	Ethanol	3.586	45	28355m	1304.36	ug/Kg	
105)	Acrolein	4.012	56	143808	195.78	ug/Kg	95
106)	Tert butyl alcohol	4.596	59	287391	516.38	ug/Kg	100
107)	Isobutyl alcohol	6.646	42	84540	1042.78	ug/Kg	96
108)	Tert Amyl Alcohol	6.750	59	195621	437.97	ug/Kg	95
109)	1,4-Dioxane	7.845	88	47210	992.54	ug/Kg	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116032.D
Acq On : 1 Jun 2016 1:23 pm
Operator : ericp
Sample : FA34367-3MSD MA Inst : MSVOA5
Misc : ms34045,vc4610,4.60,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 13:42:40 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

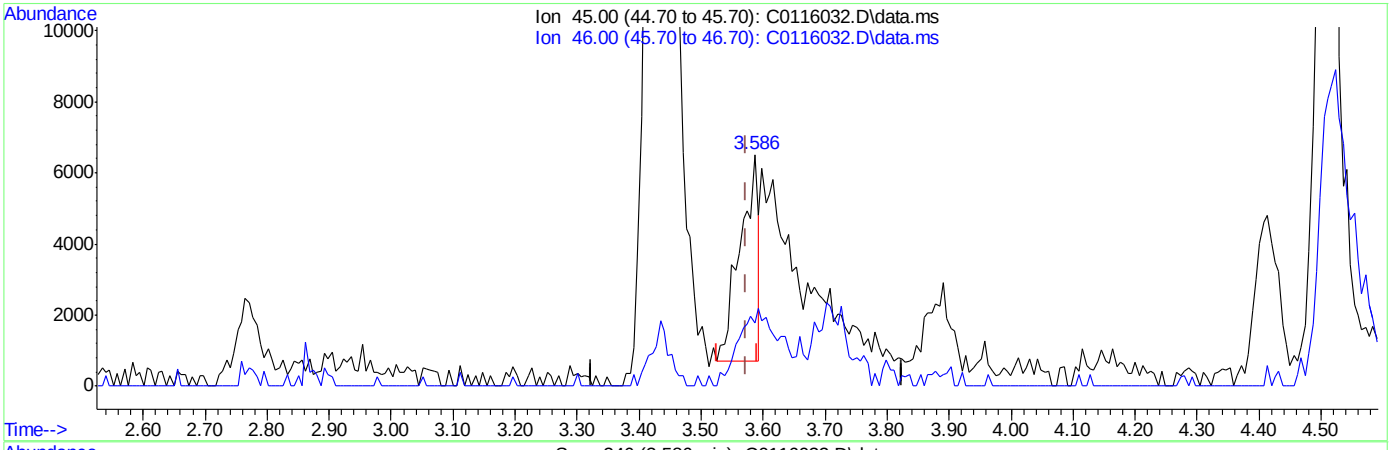
Sample Number:	FA34367-3MSD	**Method:**	SW846 8260C
Lab FileID:	C0116032.D	**Analyst approved:**	06/02/16 09:27 Eric Parrish
Injection Time:	06/01/16 13:23	**Supervisor approved:**	06/02/16 10:49 Juan Garcia

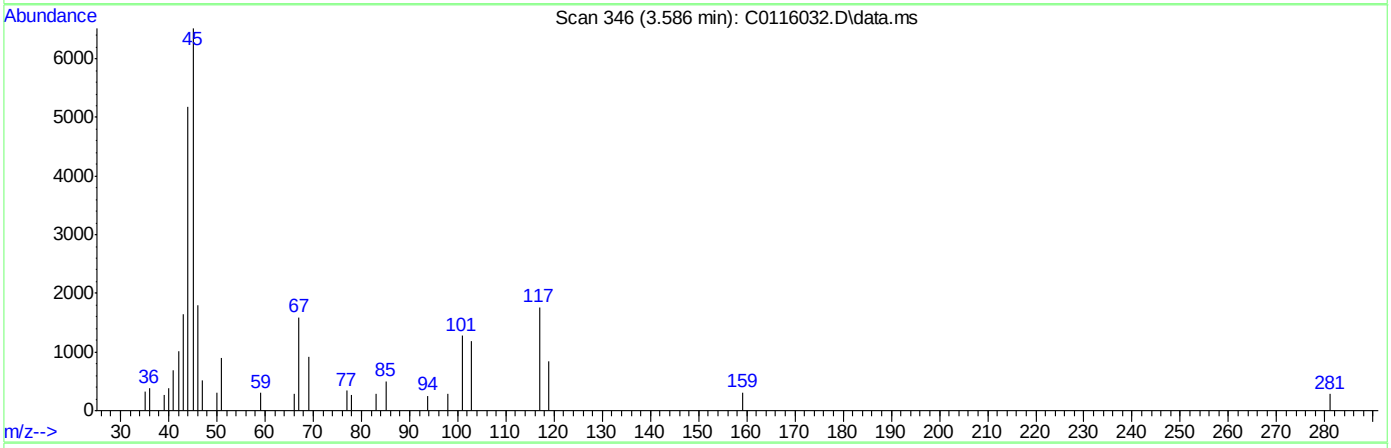
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.59	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116032.D
Acq On : 1 Jun 2016 1:23 pm
Operator : ericp
Sample : FA34367-3MSD MA Inst : MSVOA5
Misc : ms34045,vc4610,4.60,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 13:42:19 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration





TIC: C0116032.D\data.ms

(104) Ethanol

3.586min (+0.012) 542.77ug/Kg

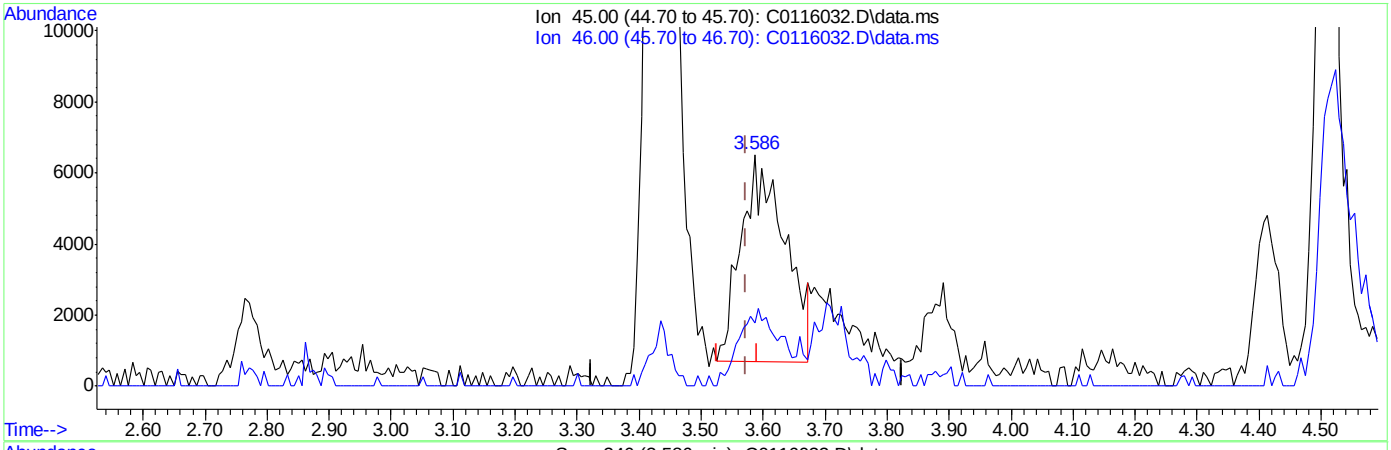
response 11799

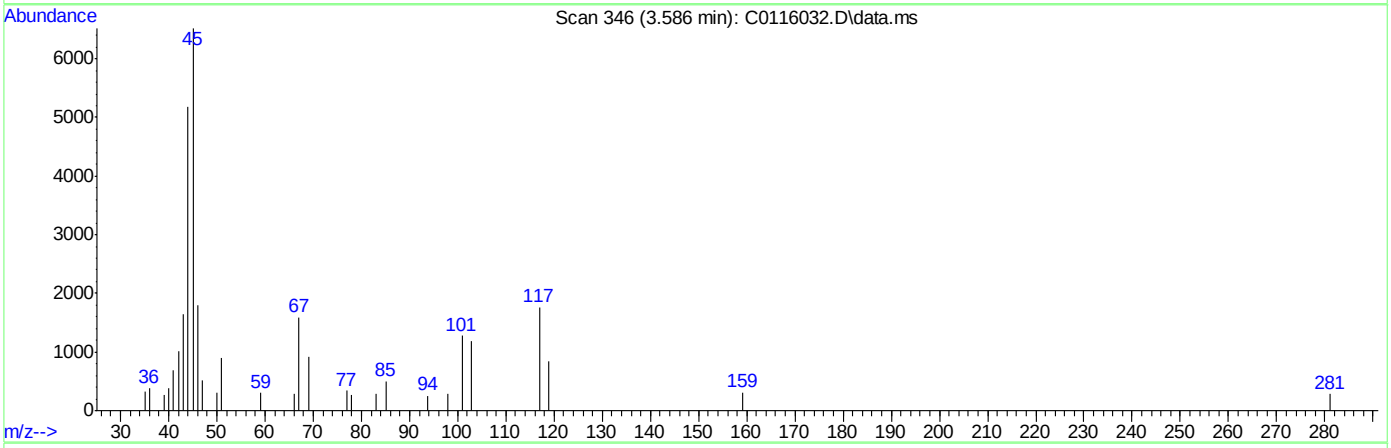
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	30.78
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116032.D
Acq On : 1 Jun 2016 1:23 pm
Operator : ericp
Sample : FA34367-3MSD MA Inst : MSVOA5
Misc : ms34045,vc4610,4.60,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jun 01 13:42:19 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration





TIC: C0116032.D\data.ms

(104) Ethanol

3.586min (+0.012) 1304.36ug/Kg m

response 28355

Ion	Exp%	Act%
45.00	100	100
46.00	30.00	27.51
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/02/16 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976963.D
Acq On : 1 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34367-1ms ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:50:10 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1182070	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	935894	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	535242	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	81252	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	298268	49.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.68%			
46) 1,2-Dichloroethane-d4	7.476	65	345787	51.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.52%			
57) Toluene-d8	9.301	98	1177715	49.76	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.52%			
79) 4-Bromofluorobenzene	12.051	95	480287	48.69	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.38%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.664	85	330613	42.44	ug/L	96
3) Chloromethane	2.895	50	191060	22.05	ug/L	99
4) Vinyl Chloride	3.041	62	192445	21.84	ug/L	98
5) 1,3-Butadiene	3.029	54	39147	10.79	ug/L	96
6) Bromomethane	3.455	94	115130	21.94	ug/L	92
7) Chloroethane	3.607	64	97151	23.39	ug/L	98
8) Trichlorofluoromethane	3.838	101	266908m	22.74	ug/L	
9) Ethyl Ether	4.118	59	109527	21.11	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.355	67	453056	55.94	ug/L	98
11) 1,1-Dichloroethene	4.398	61	256506	25.36	ug/L	99
12) Freon 113	4.465	101	217336	30.76	ug/L	96
13) Carbon Disulfide	4.471	76	466984	19.95	ug/L	97
14) Iodomethane	4.586	142	248993	21.68	ug/L	100
15) Allyl chloride	4.921	41	153311	17.67	ug/L	98
16) Methylene Chloride	5.043	49	201896	22.30	ug/L	98
17) Acetone	5.067	58	39775	97.67	ug/L	85
18) Methyl acetate	5.189	74	78313	111.32	ug/L	92
19) trans-1,2-Dichloroethene	5.225	61	239956	26.41	ug/L	99
20) Hexane	5.292	56	143846	23.79	ug/L	95
21) Methyl Tert Butyl Ether	5.328	73	382648	21.68	ug/L	91
22) Acetonitrile	5.584	40	47366	176.37	ug/L	96
23) Di-isopropyl ether	5.712	45	420187	21.27	ug/L	96
24) Chloroprene	5.870	53	192963	20.68	ug/L	98
25) 1,1-Dichloroethane	5.894	63	294735	24.32	ug/L	100
26) Acrylonitrile	5.925	53	175833	103.77	ug/L	91
27) ETBE	6.113	59	430740	21.36	ug/L	99
28) Vinyl acetate	6.101	43	951813	92.65	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	171168	21.93	ug/L	97
30) 2,2-Dichloropropane	6.606	77	214164	21.53	ug/L	99
31) Bromochloromethane	6.685	128	72198	20.64	ug/L	91
32) Cyclohexane	6.728	56	266610	23.73	ug/L	97
33) Chloroform	6.734	83	297851	22.70	ug/L	98
34) Ethyl acetate	6.801	43	384075	104.00	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976963.D
Acq On : 1 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34367-1ms ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:50:10 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	23374	21.32 ug/L	88
37) Carbon Tetrachloride	6.928	117	238824m	24.14 ug/L	
38) 1,1,1-Trichloroethane	6.989	97	262004	22.40 ug/L	98
39) 2-Butanone	7.020	43	170737	106.04 ug/L	94
40) 1,1-Dichloropropene	7.099	75	208664	23.07 ug/L	99
41) tert-Butyl Formate	7.190	59	68743	14.07 ug/L #	86
42) Propionitrile	7.330	54	118190	197.75 ug/L	78
43) Methacrylonitrile	7.354	41	512289	206.22 ug/L	98
44) Benzene	7.354	78	656464	23.12 ug/L	97
45) TAME	7.427	73	377897	20.53 ug/L	96
47) 1,2-Dichloroethane	7.543	62	197951	22.70 ug/L	98
48) Trichloroethene	7.932	95	169802	23.29 ug/L	97
49) Methylcyclohexane	7.957	83	297331	23.77 ug/L	99
50) Dibromomethane	8.358	93	85021	22.48 ug/L	95
51) 1,2-Dichloropropane	8.443	63	151638	21.52 ug/L	95
52) Bromodichloromethane	8.492	83	193360	21.51 ug/L	94
53) Methyl methacrylate	8.595	41	72192	20.94 ug/L	96
55) cis-1,3-Dichloropropene	9.106	75	216296	21.42 ug/L	95
58) Toluene	9.350	91	691597	23.19 ug/L	100
59) 2-Nitropropane	9.557	41	107315	111.50 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	429866	118.16 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	200654	24.15 ug/L	99
62) Tetrachloroethene	9.757	166	172257	22.97 ug/L	97
63) Ethyl methacrylate	9.836	69	119237	18.06 ug/L	99
64) 1,1,2-Trichloroethane	9.903	83	112947	24.31 ug/L	98
65) Dibromochloromethane	10.098	129	127749	21.07 ug/L	100
66) 1,3-Dichloropropane	10.183	76	208611	22.15 ug/L	97
67) 1,2-Dibromoethane	10.360	107	121045	23.25 ug/L	100
68) 2-hexanone	10.487	43	296492	111.32 ug/L	96
69) 1-Chlorohexane	10.792	91	210838	22.14 ug/L	92
70) Ethylbenzene	10.858	91	830393	23.77 ug/L	100
71) Chlorobenzene	10.865	112	479242	23.70 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	160098	24.20 ug/L	97
73) m,p-Xylene	10.998	91	1275338	47.89 ug/L	97
74) o-Xylene	11.436	91	630136	25.17 ug/L	98
75) Styrene	11.485	104	461991	21.63 ug/L	98
76) Bromoform	11.546	173	70781	17.96 ug/L	96
77) Isopropylbenzene	11.741	105	782894	26.61 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.087	53	18278	11.91 ug/L	95
81) n-Propylbenzene	12.160	91	979339	25.90 ug/L	99
82) Bromobenzene	12.185	156	205715	22.87 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.215	83	166453	24.24 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	680810	24.53 ug/L	100
85) 2-Chlorotoluene	12.349	91	674223	24.49 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.398	53	21908	15.10 ug/L	87
87) 1,2,3-Trichloropropane	12.379	110	42513	24.16 ug/L	96
88) Cyclohexanone	12.446	55	13791	72.22 ug/L	86
89) 4-Chlorotoluene	12.519	91	608298	24.56 ug/L	100
90) a-Methyl Styrene	12.750	118	6148	0.39 ug/L #	1
91) tert-Butylbenzene	12.684	91	387821	24.19 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976963.D
Acq On : 1 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34367-1ms ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:50:10 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.750	105	691212	24.88	ug/L	98
93) Pentachloroethane	12.738	167	112870	20.85	ug/L	95
94) sec-Butylbenzene	12.866	105	880522	26.32	ug/L	98
95) 4-Isopropyltoluene	13.000	119	720875	24.70	ug/L	100
96) 1,3-Dichlorobenzene	13.134	146	376284	24.21	ug/L	99
97) 1,4-Dichlorobenzene	13.219	146	385418	23.56	ug/L	98
98) n-Butylbenzene	13.432	92	394874	24.83	ug/L	96
99) Benzyl Chloride	13.450	126	44255	18.75	ug/L #	47
100) 1,2-Dichlorobenzene	13.645	146	350599	24.17	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	21734	22.87	ug/L	90
102) Hexachlorobutadiene	14.928	225	137428	21.27	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	219541	22.76	ug/L	97
104) Naphthalene	15.257	128	356519	24.74	ug/L	100
105) 1,2,3-Trichlorobenzene	15.427	180	182759	22.00	ug/L	97
107) Ethanol	4.264	45	17181m	377.11	ug/L	
108) acrolein	4.757	56	72220	105.58	ug/L	96
109) Tert Butyl Alcohol	5.377	59	137801	333.58	ug/L	88
110) tert Amyl alcohol	7.573	59	61817	206.22	ug/L	91
111) Isobutyl alcohol	7.452	42	54273	409.45	ug/L #	91
112) 1,4-Dioxane	8.668	88	21867	461.42	ug/L	95
113) 3,3-Dimethyl-1-butanol	10.433	57	390897	1066.32	ug/L	96

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

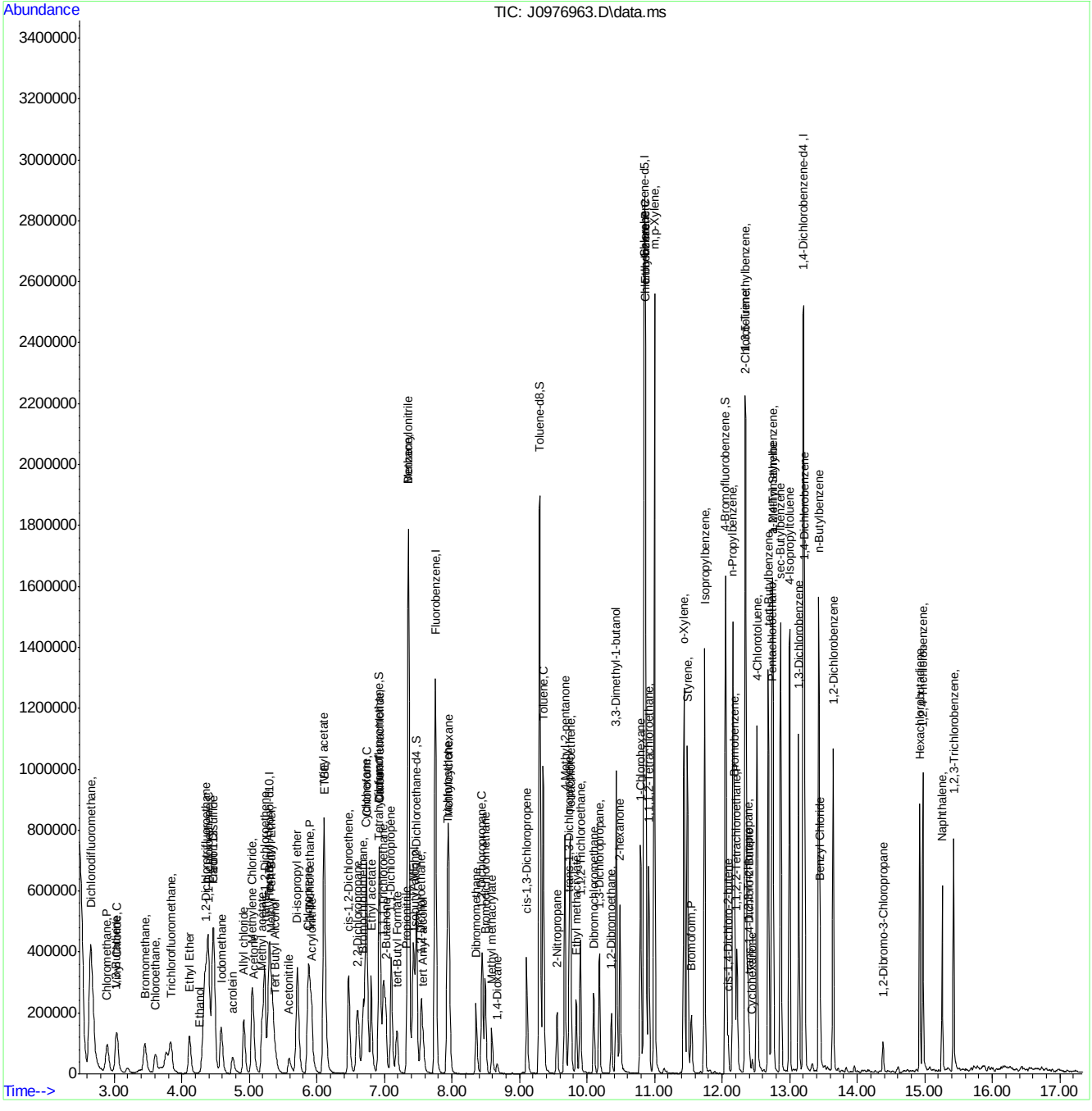
7.4.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976963.D
Acq On : 1 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34367-1ms ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:50:10 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



MSJ052316a.M Thu Jun 02 08:35:17 2016 Page: 4

Manual Integration Approval Summary

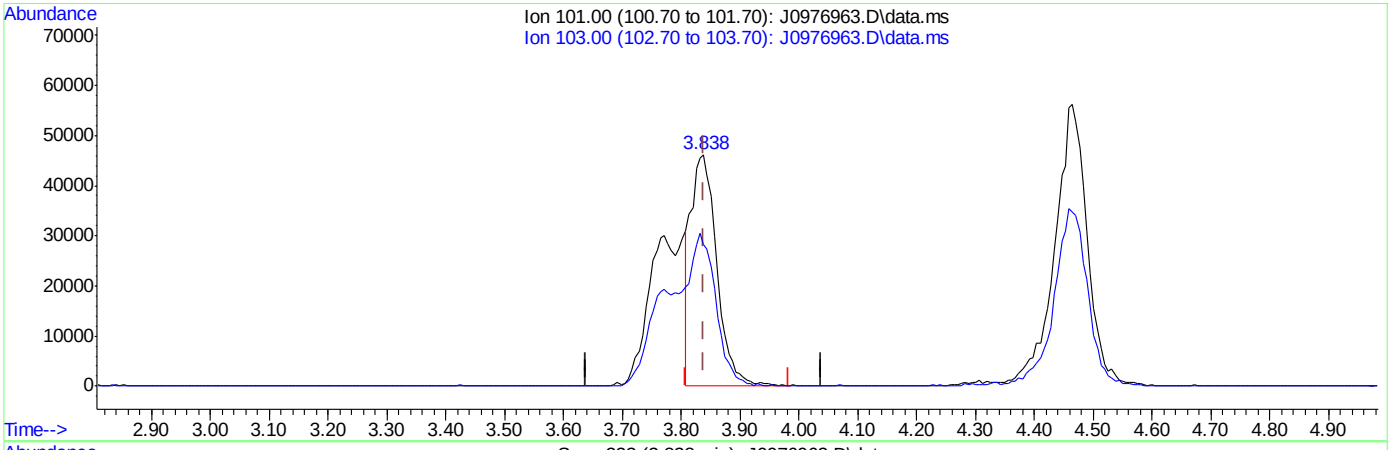
Sample Number:	FA34367-1MS	**Method:**	SW846 8260C
Lab FileID:	J0976963.D	**Analyst approved:**	06/02/16 09:54 Darshna Patel
Injection Time:	06/01/16 18:16	**Supervisor approved:**	06/02/16 10:29 Juan Garcia

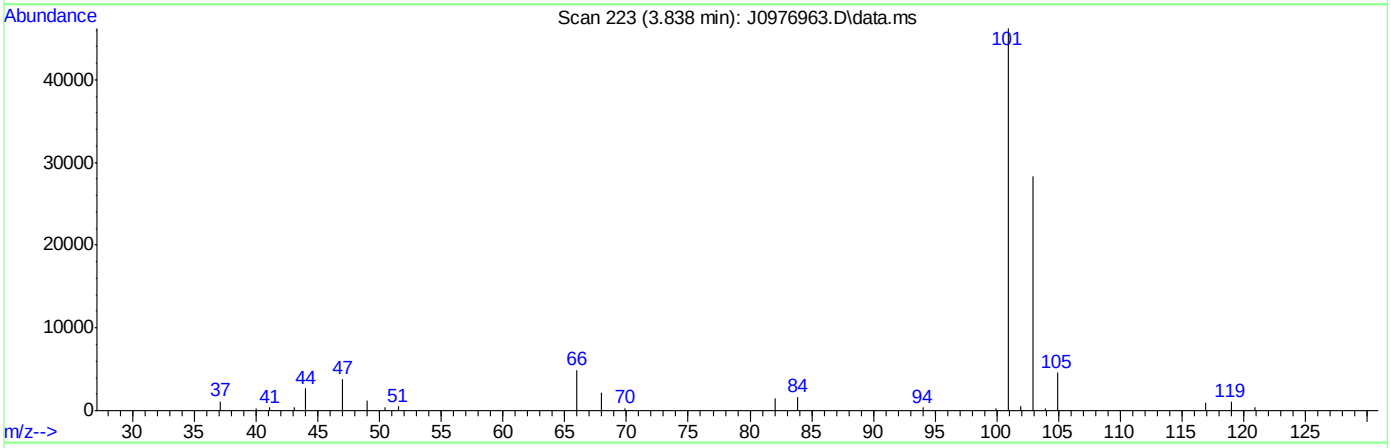
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976963.D
Acq On : 1 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34367-1ms ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976963.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 11.98ug/L

response 140606

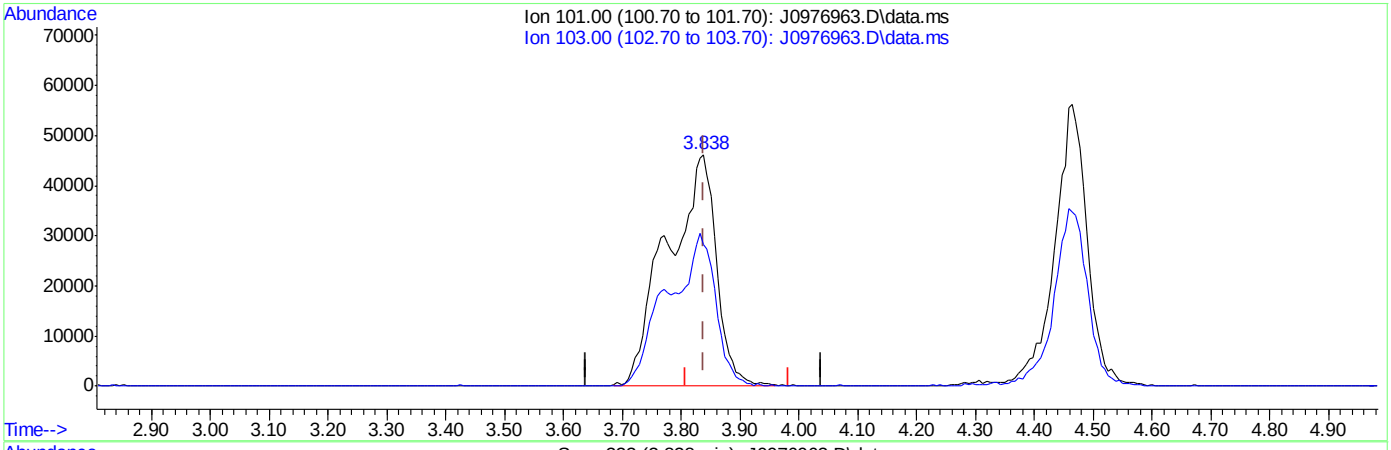
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	61.31
0.00	0.00	0.00
0.00	0.00	0.00

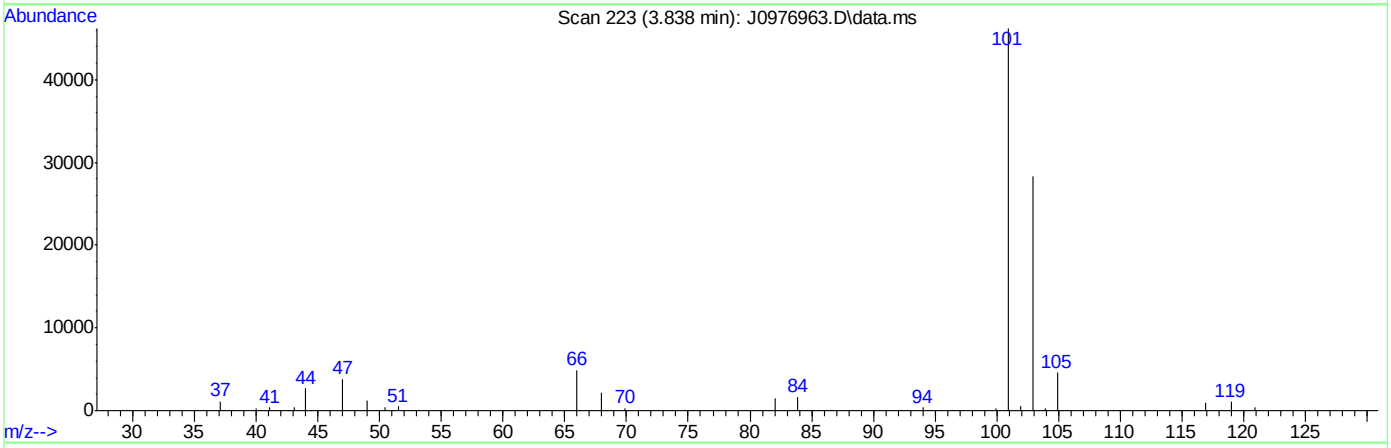
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976963.D
Acq On : 1 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34367-1ms ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.838min (-0.000) 22.74ug/L m

response 266908

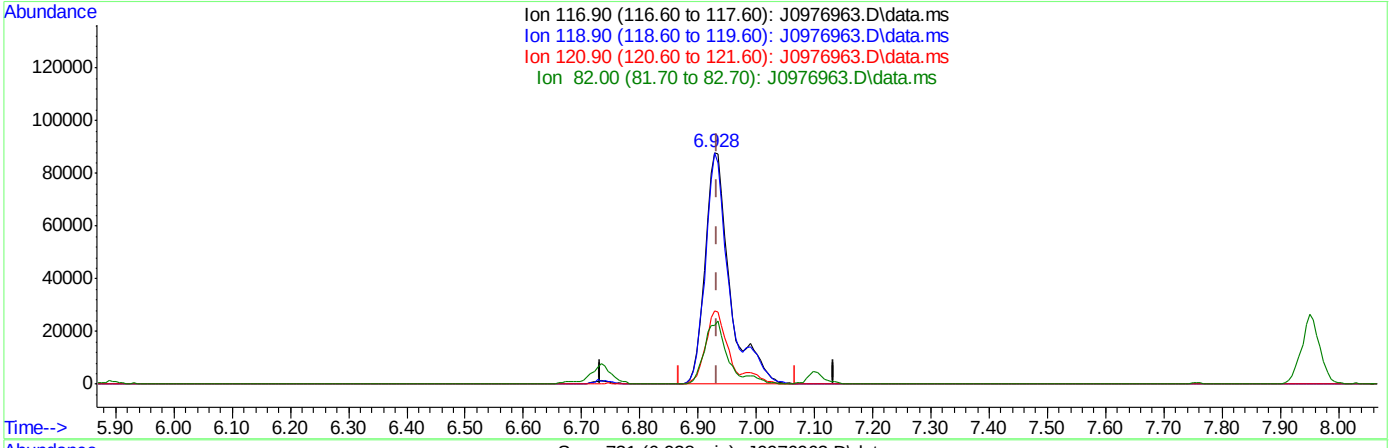
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	61.31
0.00	0.00	0.00
0.00	0.00	0.00

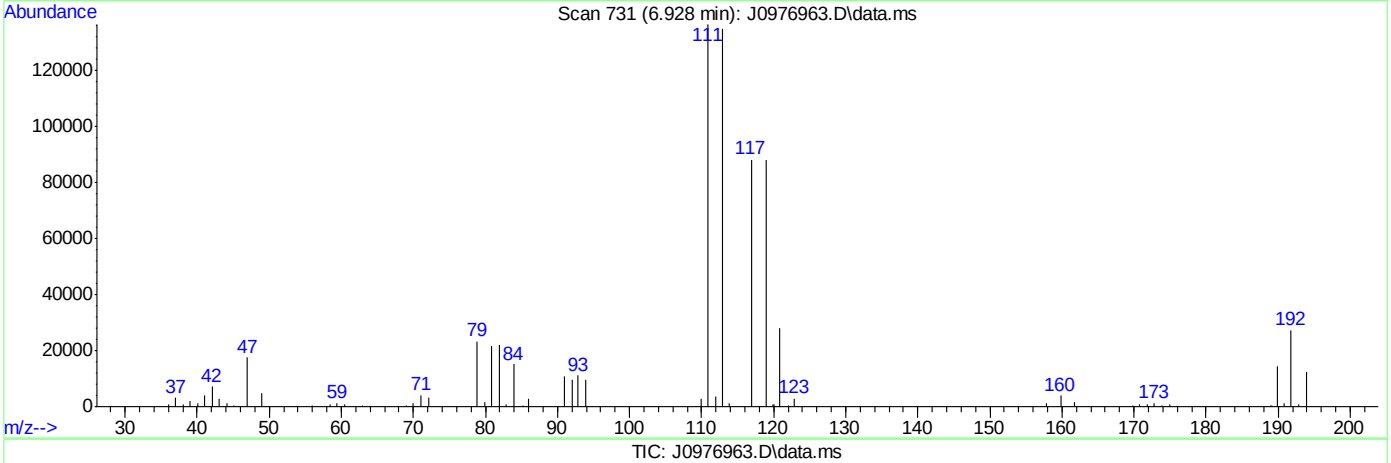
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976963.D
Acq On : 1 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34367-1ms ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976963.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.006) 26.57ug/L

response 262823

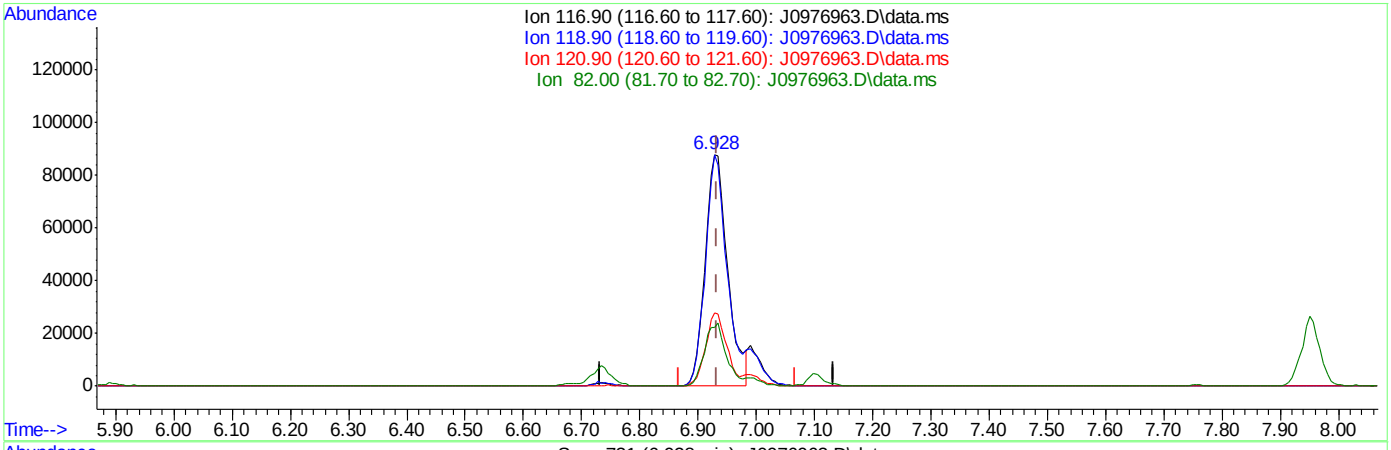
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	99.90
120.90	32.20	31.76
82.00	25.20	25.21

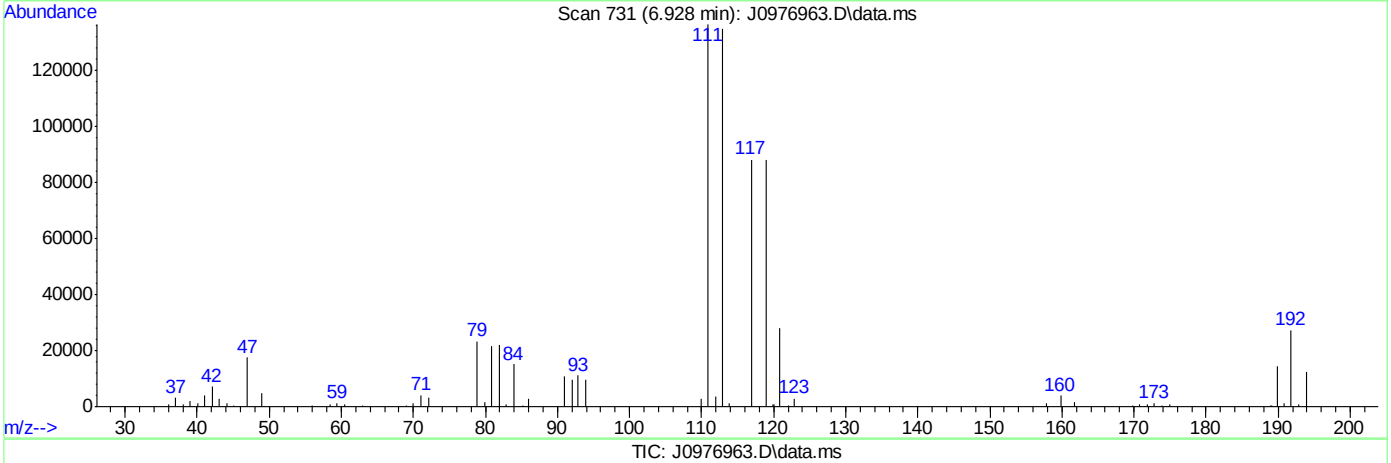
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976963.D
Acq On : 1 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34367-1ms ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976963.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.006) 24.14ug/L m

response 238824

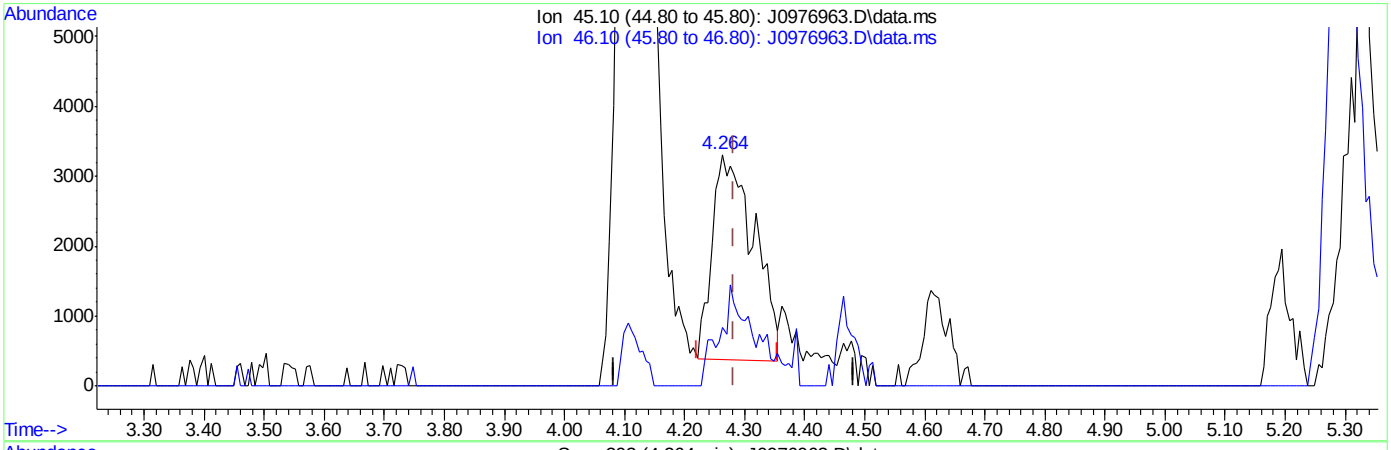
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	99.90
120.90	32.20	31.76
82.00	25.20	25.21

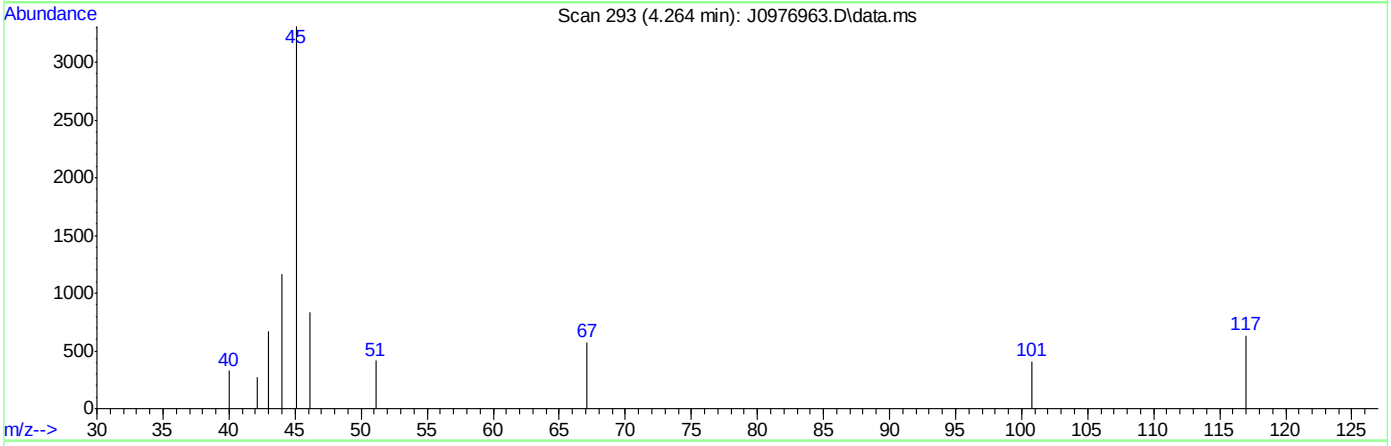
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976963.D
Acq On : 1 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34367-1ms ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976963.D\data.ms

(107) Ethanol

4.264min (-0.018) 310.84ug/L

response 14162

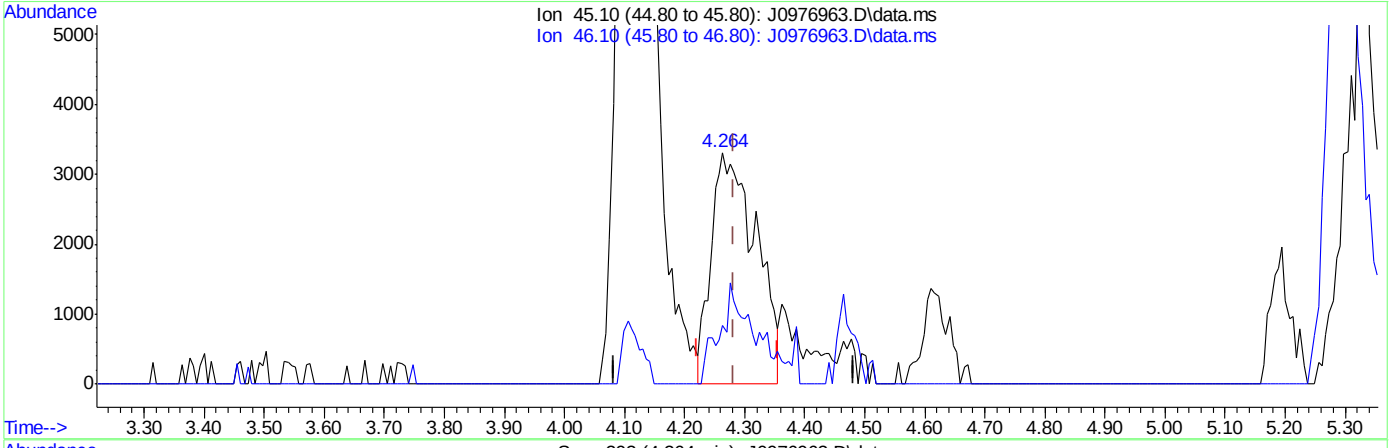
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	28.78
0.00	0.00	0.00
0.00	0.00	0.00

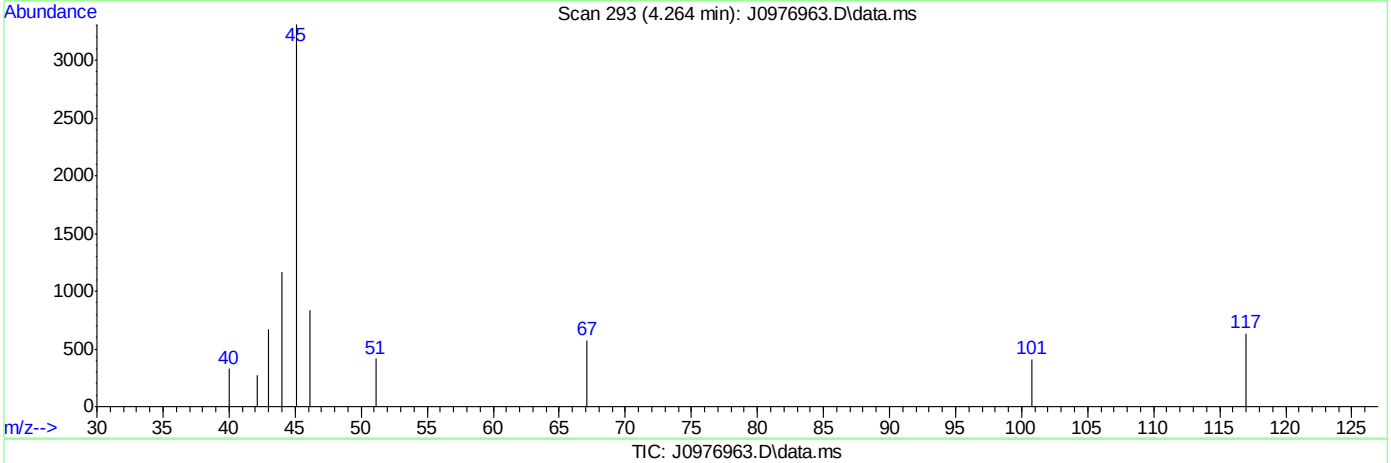
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976963.D
Acq On : 1 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34367-1ms ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976963.D\data.ms

(107) Ethanol

4.264min (-0.018) 377.11ug/L m

response 17181

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	25.25
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/02/16 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976964.D
Acq On : 1 Jun 2016 6:38 pm
Operator : darshnap
Sample : fa34367-1msd ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:51:01 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1266862	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1001376	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	562489	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	88002	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	320663	50.00	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.00%			
46) 1,2-Dichloroethane-d4	7.476	65	366436	50.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.36%			
57) Toluene-d8	9.301	98	1271501	50.21	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.42%			
79) 4-Bromofluorobenzene	12.051	95	510057	49.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.40%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.682	85	371567	44.43	ug/L	99
3) Chloromethane	2.907	50	211892	22.81	ug/L	90
4) Vinyl Chloride	3.059	62	202752	21.46	ug/L	96
5) 1,3-Butadiene	3.041	54	46847	12.05	ug/L	97
6) Bromomethane	3.467	94	125293	22.30	ug/L	95
7) Chloroethane	3.625	64	99559	22.17	ug/L	96
8) Trichlorofluoromethane	3.850	101	285200m	22.68	ug/L	
9) Ethyl Ether	4.124	59	128158	23.05	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.367	67	481971	55.53	ug/L	98
11) 1,1-Dichloroethene	4.404	61	282525	26.06	ug/L	98
12) Freon 113	4.477	101	231698	30.59	ug/L	95
13) Carbon Disulfide	4.483	76	495716	19.76	ug/L	100
14) Iodomethane	4.592	142	270626	21.99	ug/L	99
15) Allyl chloride	4.927	41	157772	16.97	ug/L	98
16) Methylene Chloride	5.055	49	223164	23.02	ug/L	97
17) Acetone	5.073	58	45156	103.55	ug/L	100
18) Methyl acetate	5.201	74	93079	123.45	ug/L	95
19) trans-1,2-Dichloroethene	5.231	61	262934	27.00	ug/L	98
20) Hexane	5.304	56	154580	23.85	ug/L	97
21) Methyl Tert Butyl Ether	5.341	73	437765	23.14	ug/L	97
22) Acetonitrile	5.608	40	56375	196.20	ug/L	97
23) Di-isopropyl ether	5.718	45	482496	22.79	ug/L	97
24) Chloroprene	5.876	53	198326	19.86	ug/L	99
25) 1,1-Dichloroethane	5.900	63	330183	25.43	ug/L	99
26) Acrylonitrile	5.931	53	194371	107.10	ug/L	97
27) ETBE	6.119	59	496864	22.99	ug/L	97
28) Vinyl acetate	6.107	43	1065811	96.80	ug/L	99
29) cis-1,2-Dichloroethene	6.478	96	197184	23.57	ug/L	96
30) 2,2-Dichloropropane	6.606	77	237615	22.29	ug/L	100
31) Bromochloromethane	6.691	128	84102	22.44	ug/L	100
32) Cyclohexane	6.734	56	290814	24.15	ug/L	98
33) Chloroform	6.740	83	337768	24.03	ug/L	99
34) Ethyl acetate	6.807	43	437839	110.63	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976964.D
Acq On : 1 Jun 2016 6:38 pm
Operator : darshnap
Sample : fa34367-1msd ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:51:01 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.916	42	29570	25.20	ug/L		95
37)	Carbon Tetrachloride	6.934	117	240733m	22.71	ug/L		
38)	1,1,1-Trichloroethane	6.995	97	288076	22.98	ug/L		99
39)	2-Butanone	7.026	43	189167	109.62	ug/L		93
40)	1,1-Dichloropropene	7.105	75	228852	23.61	ug/L		99
41)	tert-Butyl Formate	7.190	59	55030	10.51	ug/L	#	85
42)	Propionitrile	7.336	54	140930	220.02	ug/L		93
43)	Methacrylonitrile	7.360	41	584173	220.03	ug/L		98
44)	Benzene	7.360	78	732553	24.07	ug/L		99
45)	TAME	7.433	73	437551	22.18	ug/L		98
47)	1,2-Dichloroethane	7.549	62	225252	24.13	ug/L		98
48)	Trichloroethene	7.938	95	194111	24.84	ug/L		98
49)	Methylcyclohexane	7.957	83	323306	24.12	ug/L		98
50)	Dibromomethane	8.358	93	98549	24.31	ug/L		97
51)	1,2-Dichloropropane	8.449	63	174590	23.13	ug/L		96
52)	Bromodichloromethane	8.498	83	203664	21.14	ug/L		92
53)	Methyl methacrylate	8.595	41	83540	22.60	ug/L		96
55)	cis-1,3-Dichloropropene	9.112	75	232518	21.48	ug/L		98
58)	Toluene	9.356	91	771707	24.21	ug/L		99
59)	2-Nitropropane	9.557	41	123689	120.11	ug/L		97
60)	4-Methyl-2-pentanone	9.672	43	483832	124.30	ug/L		98
61)	trans-1,3-Dichloropropene	9.739	75	220279	24.78	ug/L		97
62)	Tetrachloroethene	9.757	166	194882	24.29	ug/L		97
63)	Ethyl methacrylate	9.842	69	139907	19.79	ug/L		96
64)	1,1,2-Trichloroethane	9.903	83	125859	25.32	ug/L		99
65)	Dibromochloromethane	10.098	129	136512	21.04	ug/L		99
66)	1,3-Dichloropropane	10.183	76	237811	23.60	ug/L		97
67)	1,2-Dibromoethane	10.360	107	140260	25.18	ug/L		98
68)	2-hexanone	10.487	43	332016	116.57	ug/L		95
69)	1-Chlorohexane	10.798	91	238195	23.37	ug/L		99
70)	Ethylbenzene	10.858	91	923580	24.76	ug/L		99
71)	Chlorobenzene	10.864	112	540384	25.01	ug/L		96
72)	1,1,1,2-Tetrachloroethane	10.913	131	174163	24.60	ug/L		99
73)	m,p-Xylene	10.998	91	1409881	49.61	ug/L		97
74)	o-Xylene	11.436	91	698845	26.09	ug/L		98
75)	Styrene	11.485	104	511991	22.41	ug/L		97
76)	Bromoform	11.546	173	79459	18.84	ug/L		95
77)	Isopropylbenzene	11.741	105	874493	27.78	ug/L		98
80)	cis-1,4-Dichloro-2-butene	12.087	53	17946	11.14	ug/L		93
81)	n-Propylbenzene	12.160	91	1068490	26.89	ug/L		98
82)	Bromobenzene	12.185	156	231060	24.44	ug/L		98
83)	1,1,2,2-Tetrachloroethane	12.221	83	186861	25.90	ug/L		98
84)	1,3,5-Trimethylbenzene	12.343	105	751660	25.77	ug/L		98
85)	2-Chlorotoluene	12.349	91	734993	25.40	ug/L		100
86)	trans-1,4-Dichloro-2-B...	12.404	53	22012	14.45	ug/L	#	68
87)	1,2,3-Trichloropropane	12.379	110	49851	26.95	ug/L		96
88)	Cyclohexanone	12.446	55	16810	83.77	ug/L		96
89)	4-Chlorotoluene	12.519	91	671049	25.78	ug/L		98
90)	a-Methyl Styrene	12.750	118	6302	0.38	ug/L	#	1
91)	tert-Butylbenzene	12.683	91	425443	25.25	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976964.D
Acq On : 1 Jun 2016 6:38 pm
Operator : darshnap
Sample : fa34367-1msd ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:51:01 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.750	105	760377	26.04	ug/L		97
93)	Pentachloroethane	12.738	167	118710	20.87	ug/L		94
94)	sec-Butylbenzene	12.866	105	963856	27.42	ug/L		98
95)	4-Isopropyltoluene	13.000	119	797556	26.00	ug/L		99
96)	1,3-Dichlorobenzene	13.134	146	413214	25.30	ug/L		99
97)	1,4-Dichlorobenzene	13.219	146	425758	24.79	ug/L		98
98)	n-Butylbenzene	13.432	92	433619	25.94	ug/L		98
99)	Benzyl Chloride	13.450	126	48370	19.48	ug/L	#	55
100)	1,2-Dichlorobenzene	13.645	146	388761	25.51	ug/L		99
101)	1,2-Dibromo-3-Chloropr...	14.381	75	23759	23.79	ug/L		91
102)	Hexachlorobutadiene	14.928	225	154187	22.69	ug/L		98
103)	1,2,4-Trichlorobenzene	14.971	180	253807	25.04	ug/L		99
104)	Naphthalene	15.257	128	432527	28.49	ug/L		98
105)	1,2,3-Trichlorobenzene	15.427	180	216353	24.76	ug/L		99
107)	Ethanol	4.300	45	22598m	457.96	ug/L		
108)	acrolein	4.763	56	85256	115.07	ug/L		93
109)	Tert Butyl Alcohol	5.383	59	167951	377.93	ug/L		85
110)	tert Amyl alcohol	7.573	59	77774	239.55	ug/L		98
111)	Isobutyl alcohol	7.452	42	62311	434.04	ug/L		90
112)	1,4-Dioxane	8.674	88	27247	532.32	ug/L		90
113)	3,3-Dimethyl-1-butanol	10.433	57	464277	1172.26	ug/L		99

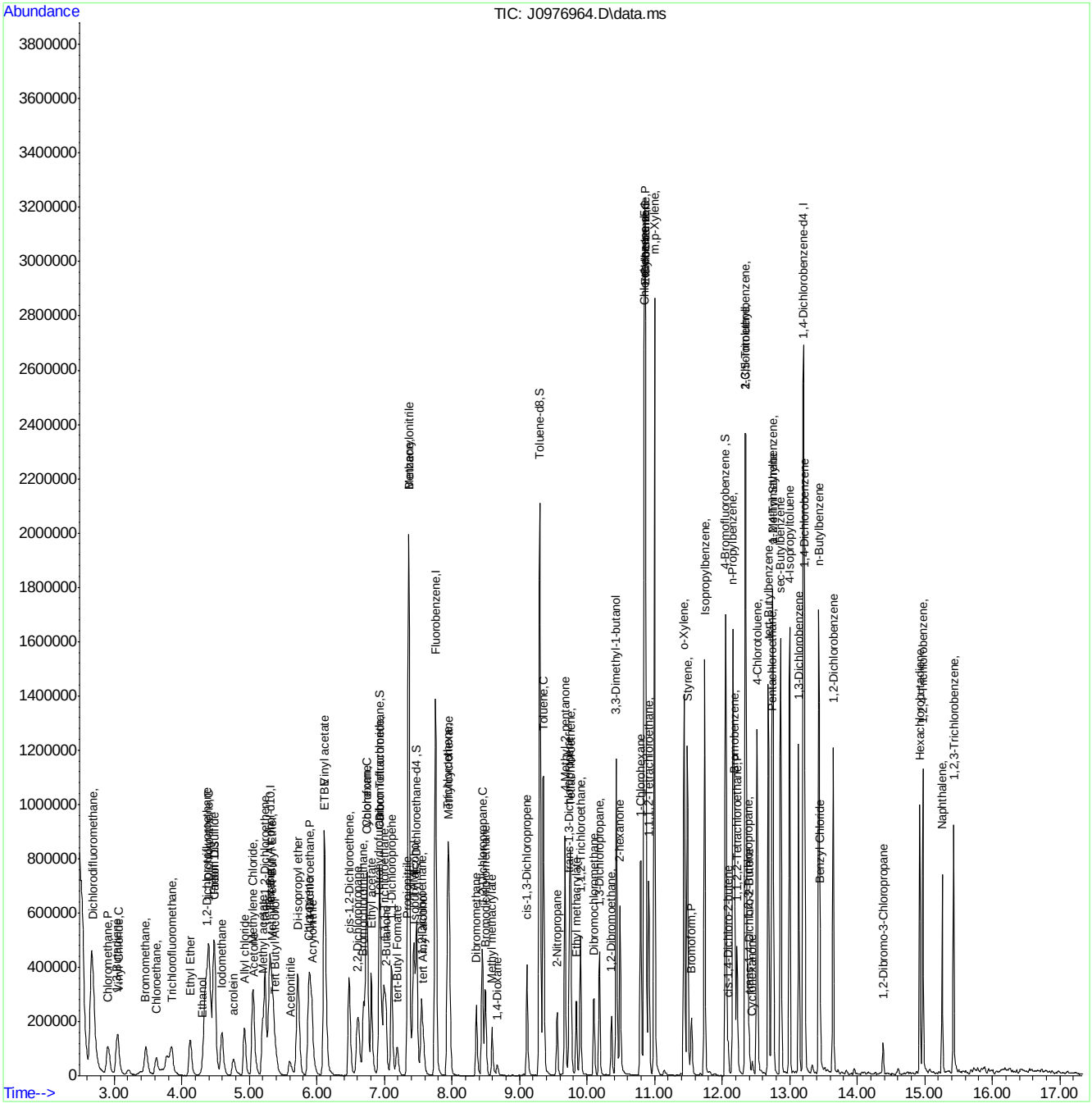
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976964.D
Acq On : 1 Jun 2016 6:38 pm
Operator : darshnap
Sample : fa34367-1msd ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:51:01 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

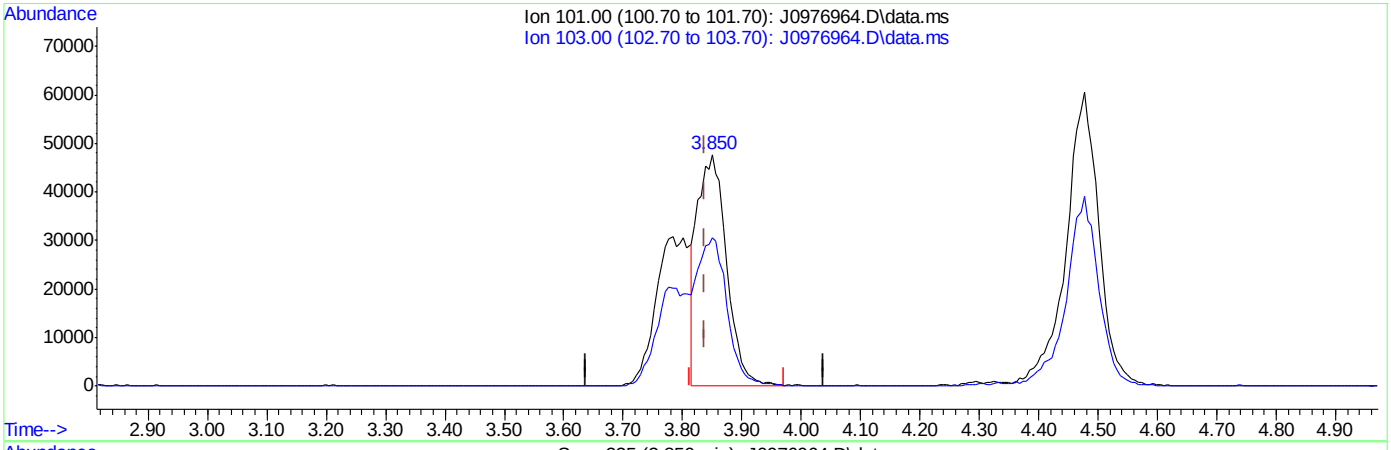
Sample Number:	FA34367-1MSD	**Method:**	SW846 8260C
Lab FileID:	J0976964.D	**Analyst approved:**	06/02/16 09:54 Darshna Patel
Injection Time:	06/01/16 18:38	**Supervisor approved:**	06/02/16 10:29 Juan Garcia

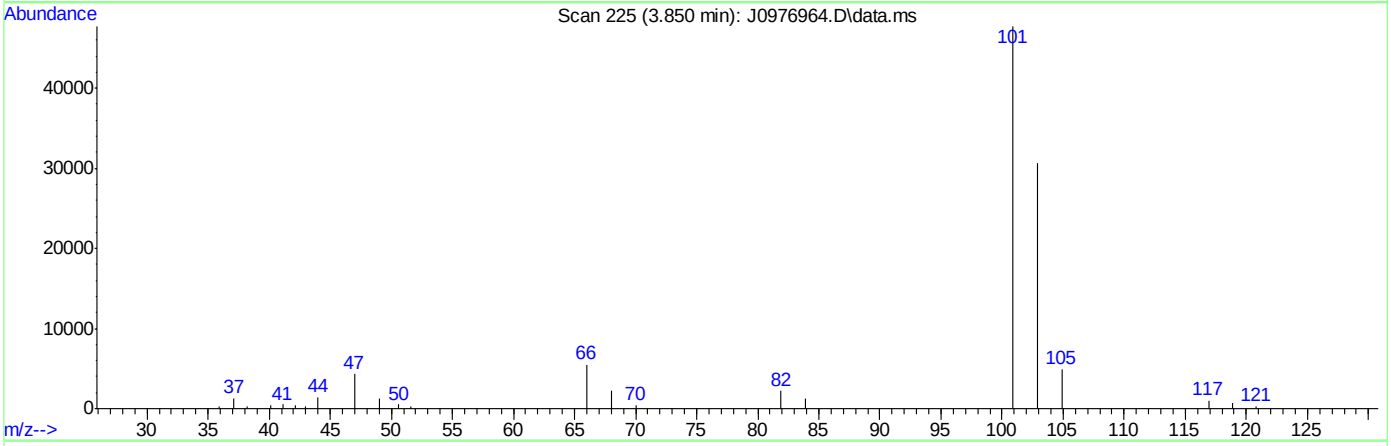
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.85	Split peak
Ethyl Alcohol	64-17-5		4.30	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976964.D
Acq On : 1 Jun 2016 6:38 pm
Operator : darshnap
Sample : fa34367-1msd ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:38 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.850min (+0.012) 13.06ug/L

response 164268

Ion	Exp%	Act%
101.00	100	100
103.00	62.30	64.24
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976964.D
Acq On : 1 Jun 2016 6:38 pm
Operator : darshnap
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ALS Vial : 18 Sample Multiplier: 1

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Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
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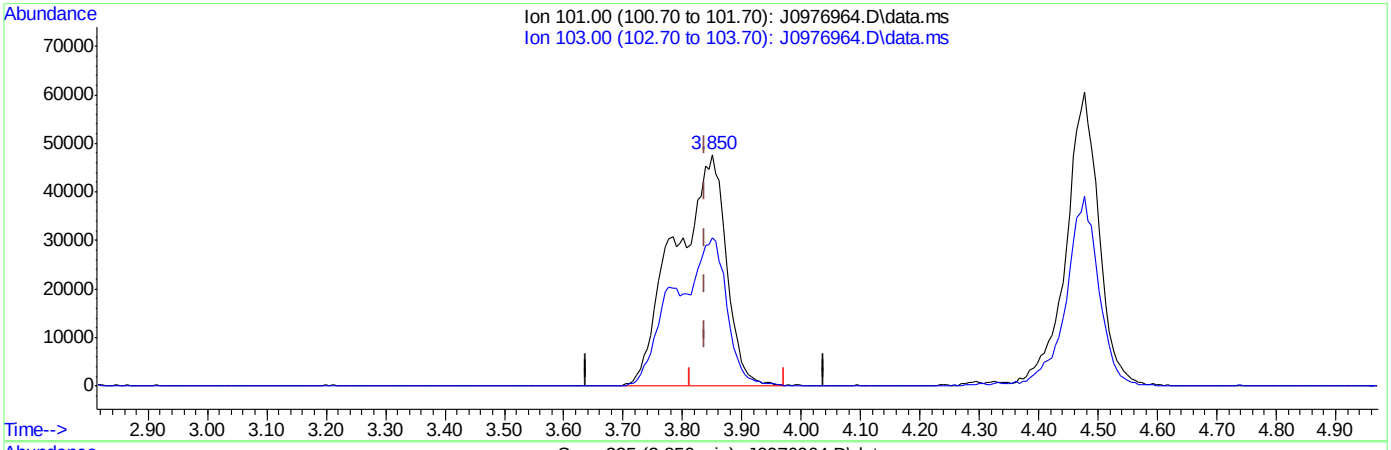
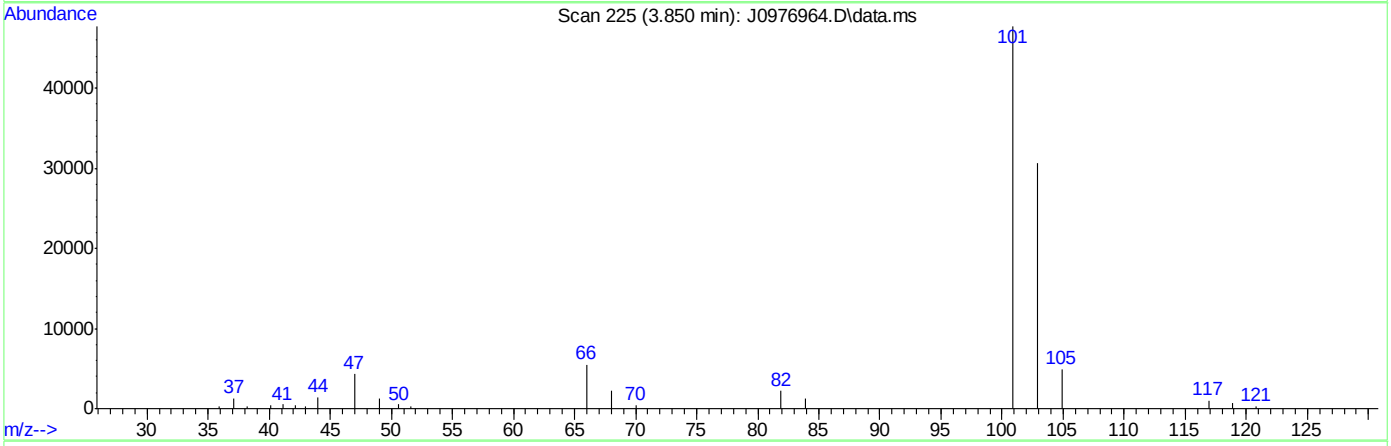




TIC: J0976964.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.012) 22.68ug/L m

response 285200

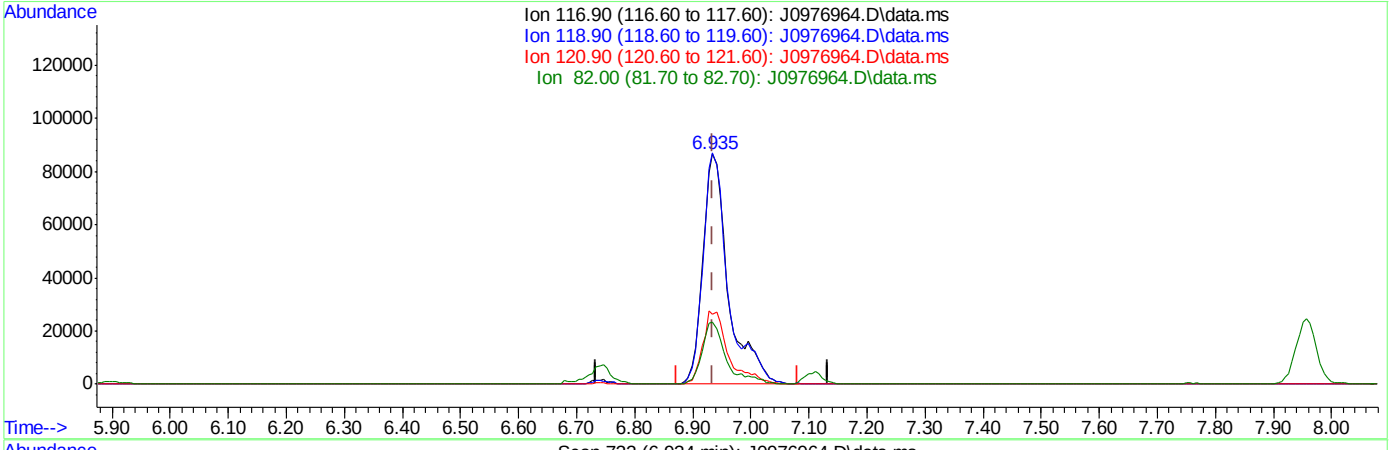
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	64.24
0.00	0.00	0.00
0.00	0.00	0.00

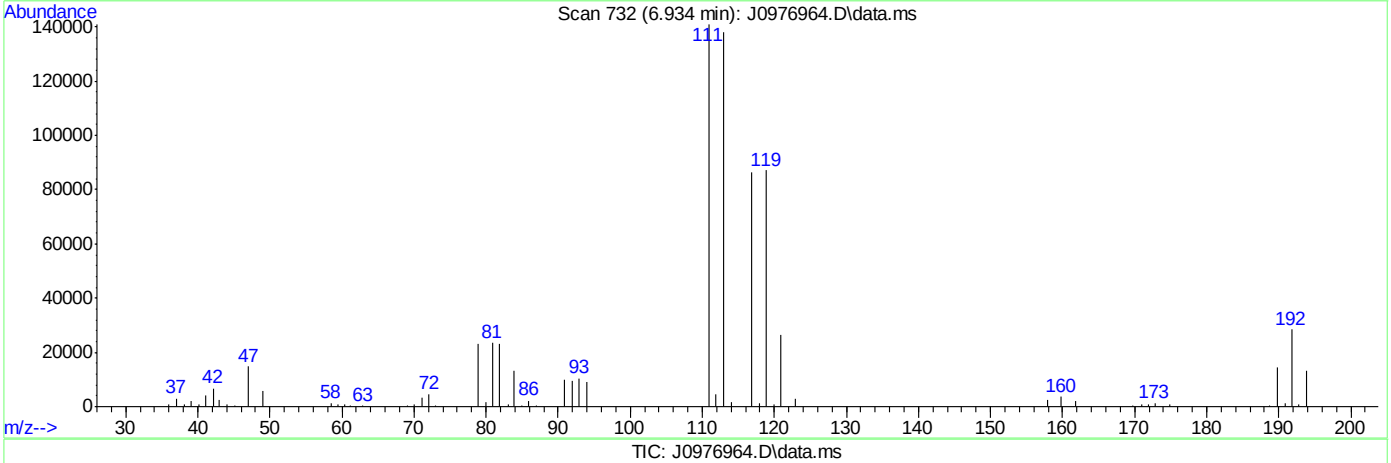
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976964.D
Acq On : 1 Jun 2016 6:38 pm
Operator : darshnap
Sample : fa34367-1msd ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:38 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976964.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 25.05ug/L

response 265634

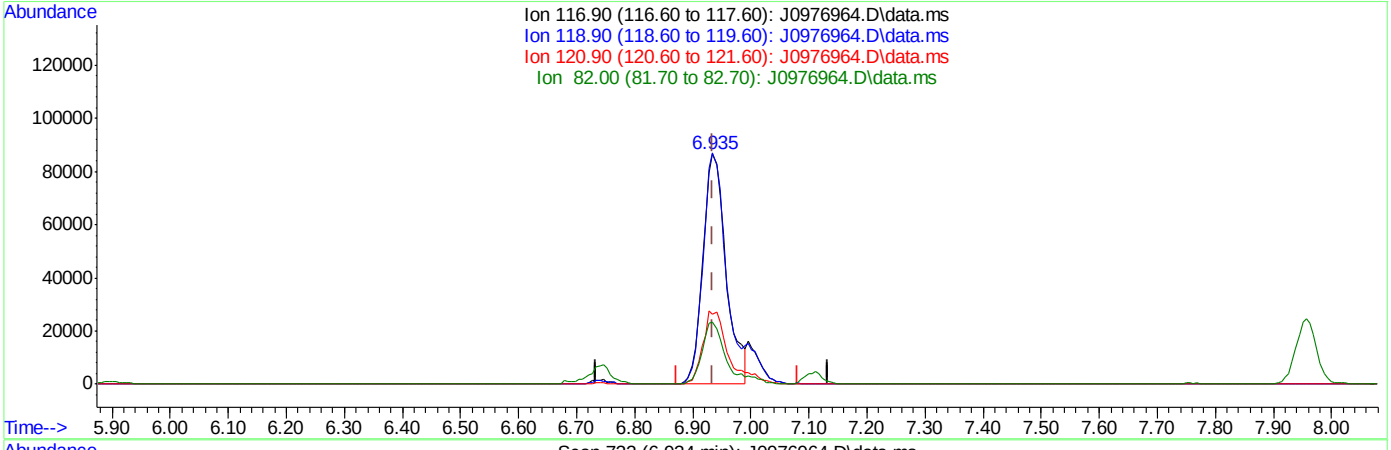
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	100.77
120.90	32.20	30.46
82.00	25.20	26.95

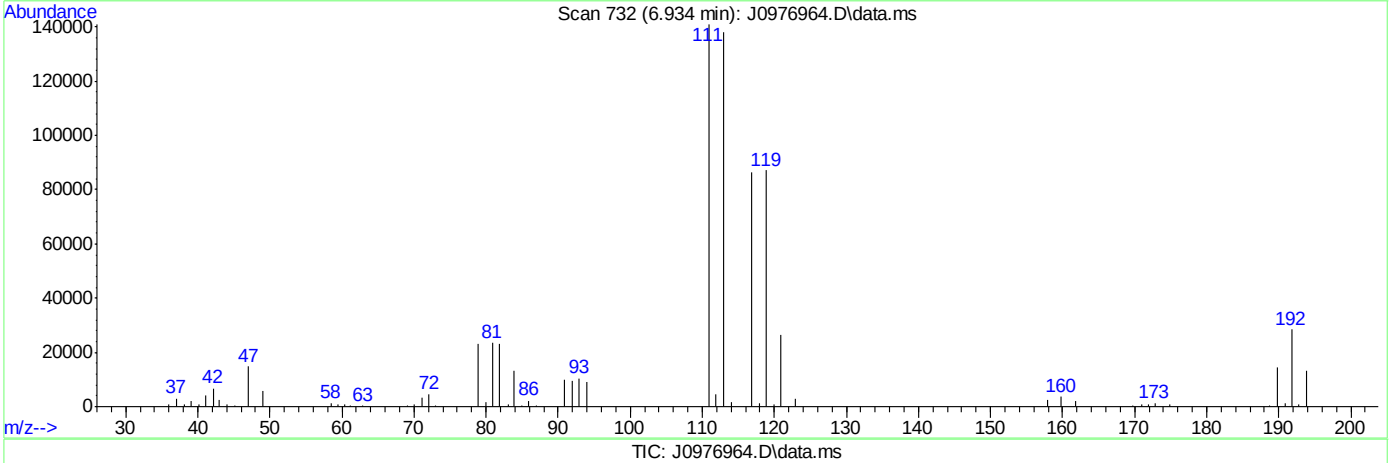
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976964.D
Acq On : 1 Jun 2016 6:38 pm
Operator : darshnap
Sample : fa34367-1msd ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:38 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976964.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 22.71ug/L m

response 240733

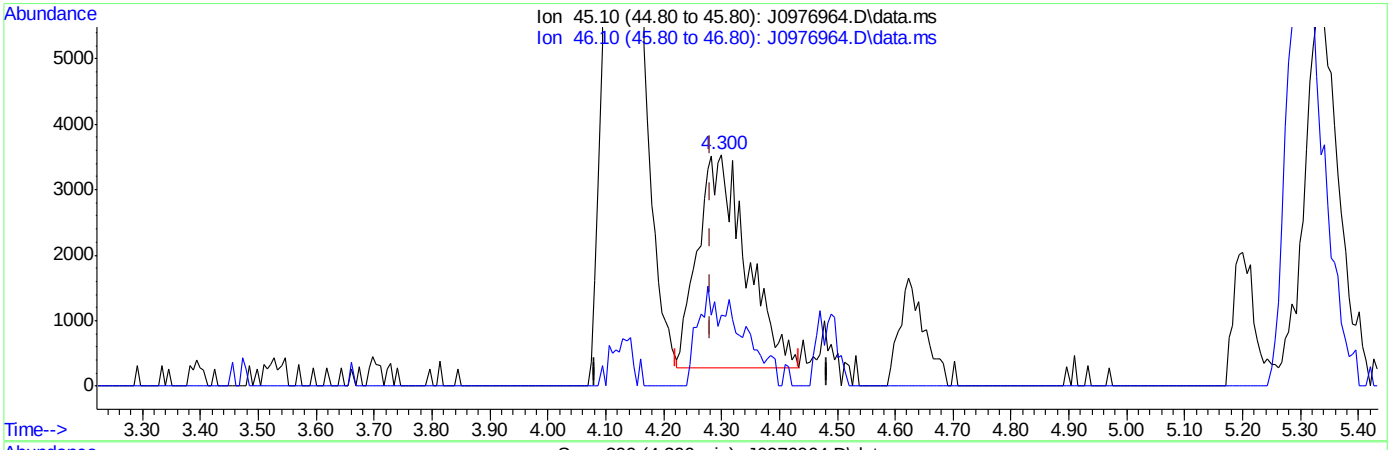
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	100.77
120.90	32.20	30.46
82.00	25.20	26.95

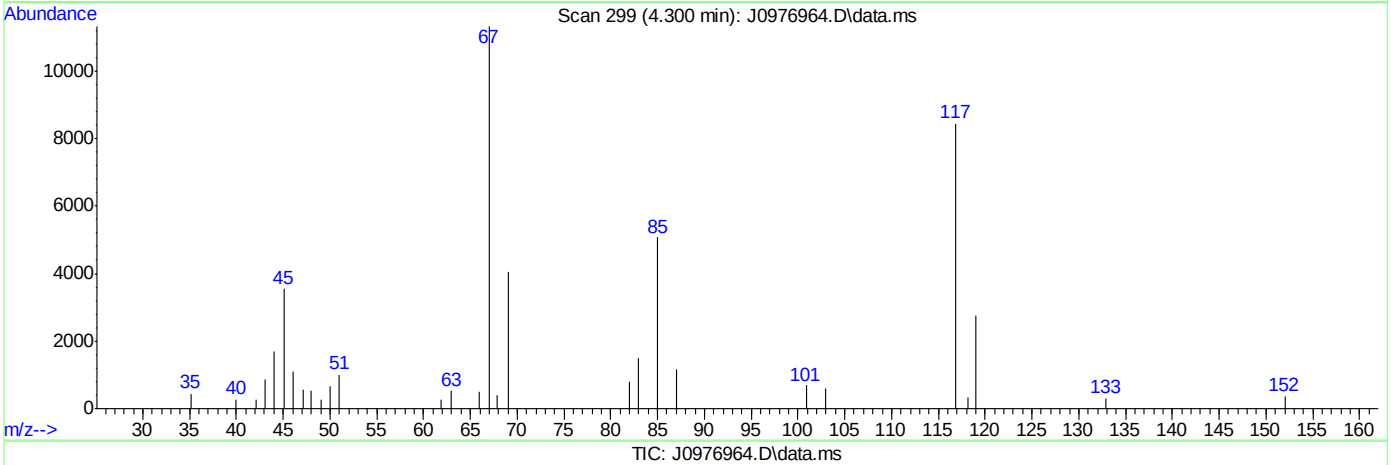
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976964.D
Acq On : 1 Jun 2016 6:38 pm
Operator : darshnap
Sample : fa34367-1msd ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:38 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976964.D\data.ms

(107) Ethanol

4.300min (+0.018) 383.65ug/L

response 18931

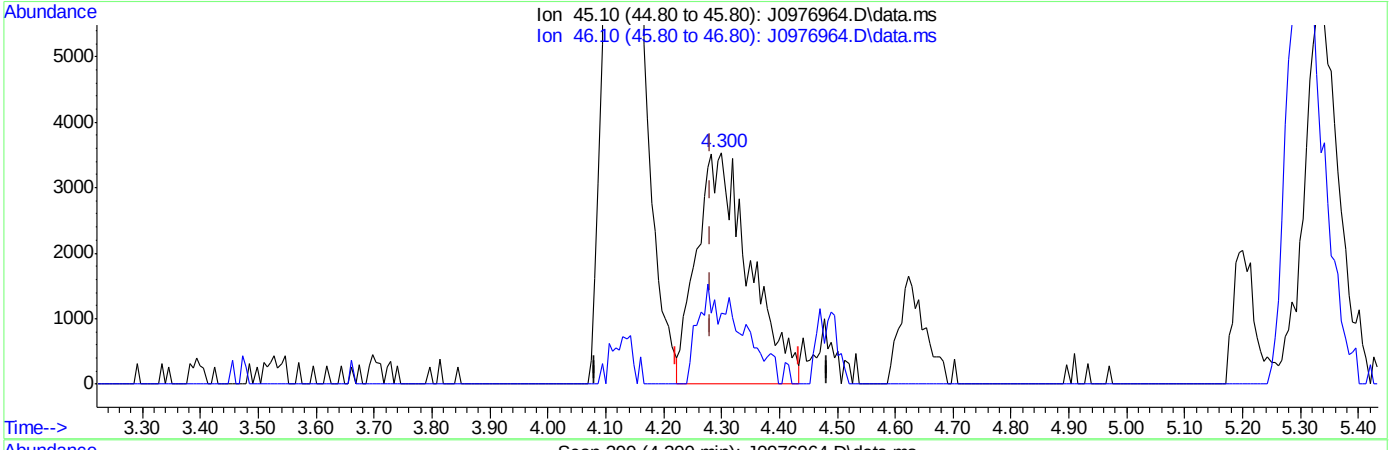
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	33.25
0.00	0.00	0.00
0.00	0.00	0.00

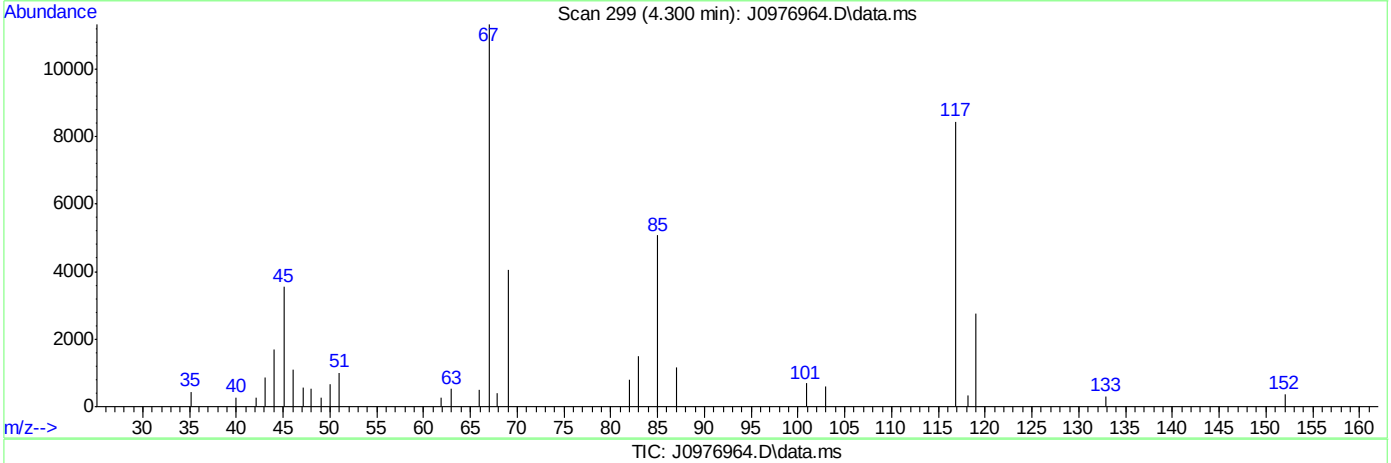
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976964.D
Acq On : 1 Jun 2016 6:38 pm
Operator : darshnap
Sample : fa34367-1msd ma Inst : MSVOA6
Misc : MS34051,VJ5324,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 02 07:42:38 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976964.D\data.ms

(107) Ethanol

4.300min (+0.018) 457.96ug/L m

response 22598

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	30.55
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
06/07/16 09:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976992.d
Acq On : 2 Jun 2016 5:53 pm
Operator : darshnap
Sample : fa34395-1ms ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 07 10:01:18 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1190531	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	926339	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.200	152	524158	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	78814	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	304559	50.53	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.06%			
46) 1,2-Dichloroethane-d4	7.476	65	338264	49.79	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.58%			
57) Toluene-d8	9.301	98	1196082	51.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.12%			
79) 4-Bromofluorobenzene	12.051	95	476972	49.37	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	154401	20.03	ug/L	99
3) Chloromethane	2.907	50	173104	19.83	ug/L	100
4) Vinyl Chloride	3.053	62	182556	20.55	ug/L	98
5) 1,3-Butadiene	3.029	54	34767	9.51	ug/L	90
6) Bromomethane	3.467	94	110848	20.90	ug/L	98
7) Chloroethane	3.625	64	88156	20.66	ug/L	97
8) Trichlorofluoromethane	3.850	101	253910m	21.48	ug/L	
9) Ethyl Ether	4.124	59	110101	21.07	ug/L	90
10) 1,2-Dichlorotrifluoroe...	4.367	67	211796	25.97	ug/L	97
11) 1,1-Dichloroethene	4.404	61	252163	24.75	ug/L	98
12) Freon 113	4.471	101	152814	21.47	ug/L	93
13) Carbon Disulfide	4.477	76	513214	21.77	ug/L	99
14) Iodomethane	4.592	142	239552	20.71	ug/L	98
15) Allyl chloride	4.927	41	170598	19.52	ug/L	97
16) Methylene Chloride	5.048	49	209616	23.01	ug/L	97
17) Acetone	5.067	58	39912	97.31	ug/L	95
18) Methyl acetate	5.194	74	77339	109.15	ug/L #	91
19) trans-1,2-Dichloroethene	5.231	61	236483	25.84	ug/L	98
20) Hexane	5.304	56	186949	30.69	ug/L	87
21) Methyl Tert Butyl Ether	5.334	73	912896	51.36	ug/L	80
22) Acetonitrile	5.596	40	49581	183.41	ug/L	90
23) Di-isopropyl ether	5.718	45	422811	21.25	ug/L	97
24) Chloroprene	5.876	53	202955	21.57	ug/L	98
25) 1,1-Dichloroethane	5.900	63	299815	24.56	ug/L	99
26) Acrylonitrile	5.925	53	167457	98.01	ug/L	93
27) ETBE	6.119	59	426171	20.98	ug/L	99
28) Vinyl acetate	6.107	43	908620	87.82	ug/L	99
29) cis-1,2-Dichloroethene	6.478	96	172689	21.97	ug/L	97
30) 2,2-Dichloropropane	6.606	77	216012	21.56	ug/L	96
31) Bromochloromethane	6.685	128	74296	21.09	ug/L	97
32) Cyclohexane	6.740	56	273040	24.13	ug/L	98
33) Chloroform	6.740	83	300301	22.72	ug/L	99
34) Ethyl acetate	6.807	43	362967	97.59	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976992.d
Acq On : 2 Jun 2016 5:53 pm
Operator : darshnap
Sample : fa34395-1ms ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 07 10:01:18 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.916	42	27057	24.53	ug/L		94
37) Carbon Tetrachloride	6.934	117	233232m	23.41	ug/L		
38) 1,1,1-Trichloroethane	6.995	97	262851	22.31	ug/L		97
39) 2-Butanone	7.026	43	170923	105.40	ug/L		100
40) 1,1-Dichloropropene	7.105	75	212893	23.37	ug/L		97
41) tert-Butyl Formate	7.190	59	58595	11.91	ug/L	#	83
42) Propionitrile	7.336	54	123572	205.29	ug/L		94
43) Methacrylonitrile	7.360	41	520941	208.30	ug/L		95
44) Benzene	7.354	78	653060	22.84	ug/L		95
45) TAME	7.433	73	370122	19.97	ug/L		95
47) 1,2-Dichloroethane	7.549	62	202443	23.06	ug/L		96
48) Trichloroethene	7.938	95	172392	23.48	ug/L		96
49) Methylcyclohexane	7.956	83	303865	24.12	ug/L		99
50) Dibromomethane	8.364	93	87803	23.05	ug/L		94
51) 1,2-Dichloropropane	8.449	63	151966	21.41	ug/L		95
52) Bromodichloromethane	8.492	83	200364	22.13	ug/L		98
53) Methyl methacrylate	8.595	41	77691	22.36	ug/L		96
55) cis-1,3-Dichloropropene	9.112	75	223417	21.97	ug/L		96
58) Toluene	9.356	91	703737	23.86	ug/L		98
59) 2-Nitropropane	9.556	41	107416	112.76	ug/L		98
60) 4-Methyl-2-pentanone	9.672	43	448640	124.60	ug/L		99
61) trans-1,3-Dichloropropene	9.739	75	208981	25.41	ug/L		98
62) Tetrachloroethene	9.757	166	177478	23.91	ug/L		98
63) Ethyl methacrylate	9.836	69	122138	18.69	ug/L		98
64) 1,1,2-Trichloroethane	9.903	83	108382	23.57	ug/L		98
65) Dibromochloromethane	10.098	129	132882	22.14	ug/L		98
66) 1,3-Dichloropropane	10.183	76	208918	22.41	ug/L		97
67) 1,2-Dibromoethane	10.359	107	122467	23.77	ug/L		97
68) 2-hexanone	10.487	43	299440	113.61	ug/L		99
69) 1-Chlorohexane	10.791	91	214820	22.79	ug/L		99
70) Ethylbenzene	10.858	91	825485	23.88	ug/L		99
71) Chlorobenzene	10.864	112	468885	23.42	ug/L		98
72) 1,1,1,2-Tetrachloroethane	10.913	131	156212	23.55	ug/L		98
73) m,p-Xylene	10.998	91	1275924	48.44	ug/L		99
74) o-Xylene	11.436	91	623884	25.17	ug/L		100
75) Styrene	11.485	104	461028	21.81	ug/L		99
76) Bromoform	11.546	173	75466	19.33	ug/L		96
77) Isopropylbenzene	11.740	105	782203	26.86	ug/L		100
80) cis-1,4-Dichloro-2-butene	12.087	53	16836	11.21	ug/L	#	83
81) n-Propylbenzene	12.160	91	969030	26.17	ug/L		99
82) Bromobenzene	12.185	156	200000	22.71	ug/L		100
83) 1,1,2,2-Tetrachloroethane	12.221	83	156584	23.29	ug/L		97
84) 1,3,5-Trimethylbenzene	12.343	105	687431	25.29	ug/L		99
85) 2-Chlorotoluene	12.349	91	668159	24.78	ug/L		99
86) trans-1,4-Dichloro-2-B...	12.397	53	18517	13.05	ug/L	#	54
87) 1,2,3-Trichloropropane	12.379	110	42768	24.81	ug/L		94
88) Cyclohexanone	12.446	55	13147	70.31	ug/L		92
89) 4-Chlorotoluene	12.513	91	603142	24.87	ug/L		97
91) tert-Butylbenzene	12.683	91	390130	24.84	ug/L		99
92) 1,2,4-Trimethylbenzene	12.750	105	687709	25.27	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976992.d
Acq On : 2 Jun 2016 5:53 pm
Operator : darshnap
Sample : fa34395-1ms ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 07 10:01:18 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

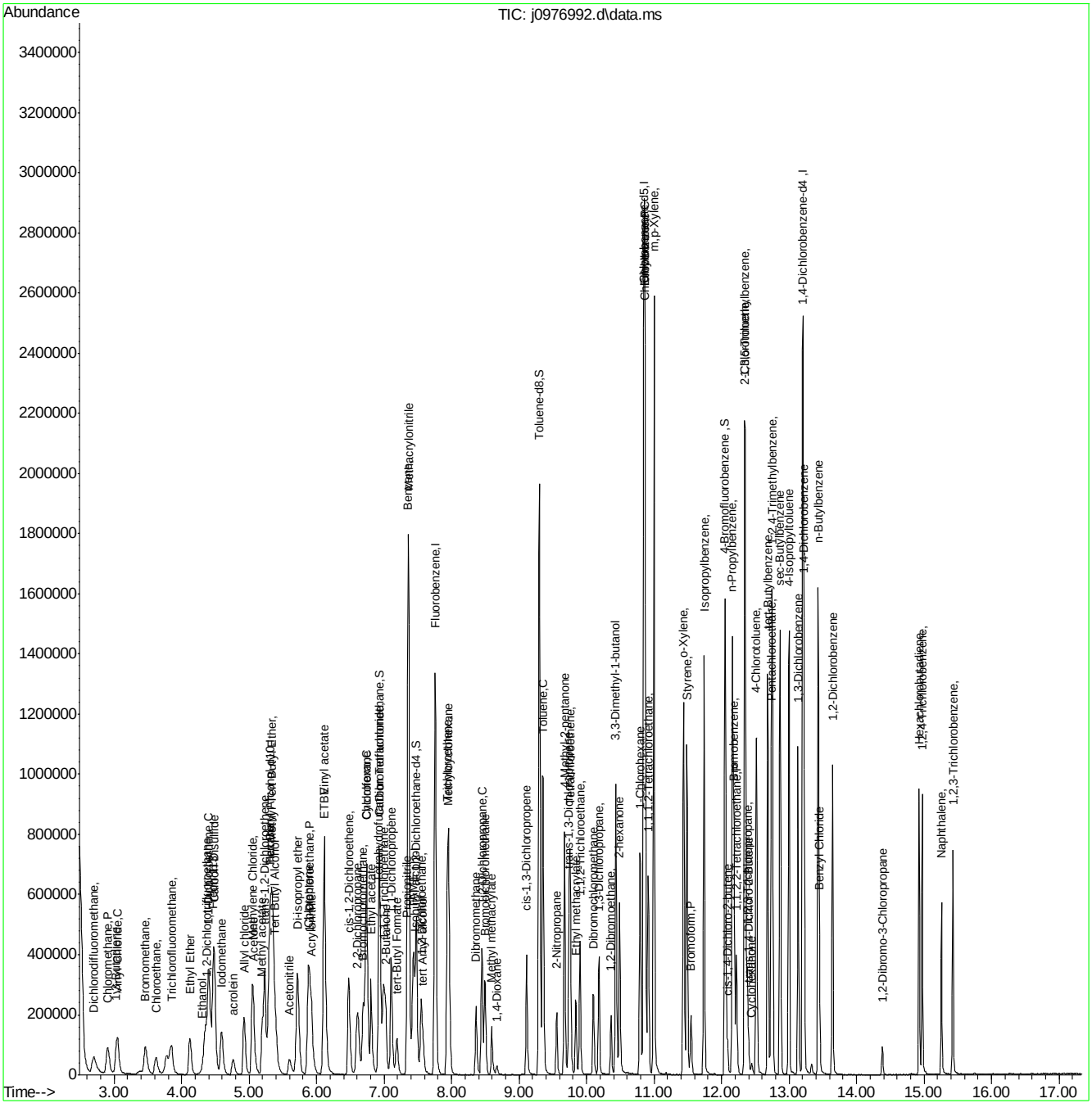
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
93)	Pentachloroethane	12.738	167	119506	22.54	ug/L		96
94)	sec-Butylbenzene	12.866	105	879098	26.84	ug/L		99
95)	4-Isopropyltoluene	13.000	119	729313	25.51	ug/L		99
96)	1,3-Dichlorobenzene	13.134	146	361582	23.75	ug/L		98
97)	1,4-Dichlorobenzene	13.219	146	376439	23.49	ug/L		96
98)	n-Butylbenzene	13.432	92	402214	25.82	ug/L		97
99)	Benzyl Chloride	13.450	126	44940	19.42	ug/L	#	68
100)	1,2-Dichlorobenzene	13.645	146	335946	23.65	ug/L		95
101)	1,2-Dibromo-3-Chloropr...	14.381	75	20333	21.85	ug/L		94
102)	Hexachlorobutadiene	14.928	225	149564	23.61	ug/L		97
103)	1,2,4-Trichlorobenzene	14.971	180	212678	22.52	ug/L		98
104)	Naphthalene	15.257	128	327881	23.26	ug/L		99
105)	1,2,3-Trichlorobenzene	15.427	180	178930	21.99	ug/L		97
107)	Ethanol	4.306	45	19062m	431.33	ug/L		
108)	acrolein	4.763	56	70368	106.05	ug/L		94
109)	Tert Butyl Alcohol	5.377	59	362108	1007.08	ug/L		87
110)	tert Amyl alcohol	7.573	59	62406	214.62	ug/L		97
111)	Isobutyl alcohol	7.458	42	55396	430.86	ug/L	#	87
112)	1,4-Dioxane	8.668	88	19523	424.09	ug/L		95
113)	3,3-Dimethyl-1-butanol	10.432	57	385063	1083.33	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976992.d
Acq On : 2 Jun 2016 5:53 pm
Operator : darshnap
Sample : fa34395-1ms ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 07 10:01:18 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration


Abundance
TIC: j0976992.d\data.ms
Time-->
Toluene-d8,S
Fluorobenzene,I
1,4-Dichlorobenzene-d4 ,I
Styrene,o-Xylene,
Isopropylbenzene,
Bromoform,P
1,2-Dibromo-3-Chloropropane
Naphthalene,
1,2,3-Trichlorobenzene,
Benzyl Chloride
1,2-Dichlorobenzene
n-Butylbenzene
4-Chlorotoluene,
1,3-Dichlorobenzene
4-Isopropyltoluene
sec-Butylbenzene
n-Propylbenzene,
4-Bromofluorobenzene ,S
cis-1,3-Dichloropropene
2-Nitropropane
Toluene,C
3,3-Dimethyl-1-butanol
2-hexanone
1,2-Dibromoethane,
Dibromochloromethane
Ethyl methacrylate
1,4-Dioxane
Dibromomethane
Methyl methacrylate
Methylcyclohexane
Methylcyclopentane
Benzene
Acrylonitrile
Vinyl acetate
ETBE
Acetonitrile
Diisopropyl ether
Allyl chloride
Methylene Chloride,
Iodomethane
acrolein
Ethyl Ether
Bromomethane,
Chloroethane,
Trichlorofluoromethane,
Dichlorodifluoromethane,
Chloromethane,P
Vinylchloride,C
m,p-Xylene,
1,1,1,2-Tetrachloroethane,
1-Chlorohexane
3-Chloropropene
1,1,2-Trichloroethane,
1,1-Dichloroethane,
1,1-Dichloroethene,
1,2-Dichloroethane-d4 ,S
tert-Butyl Formate
2-Butanone
Ethyl acetate
cis-1,2-Dichloroethene,
2,2-Dichloropropane,
Methyl tert-butyl ether,
Acrylonitrile,P
Methyl Acetate
tert-Amyl Methyl Ether
Methyl acetate
Methyl tert-butyl ether
Methylene Chloride,
Methyl acrylate
Methyl tert-butyl ether
Methyl tert-butyl ether
Methyl tert-butyl ether

Manual Integration Approval Summary

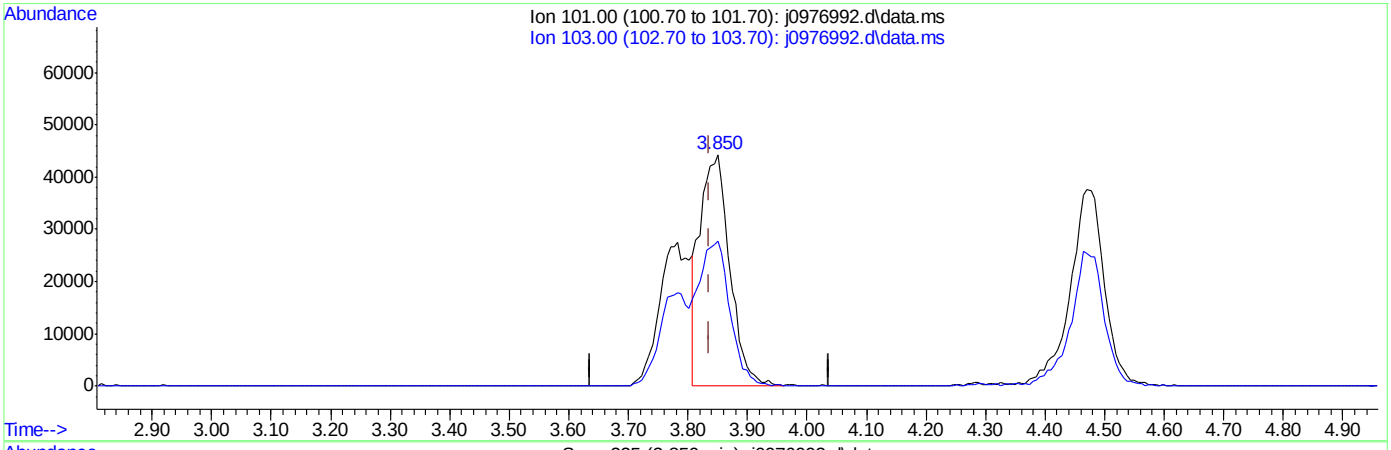
Sample Number:	FA34395-1MS	**Method:**	SW846 8260C
Lab FileID:	J0976992.D	**Analyst approved:**	06/06/16 16:31 Stuti Patel
Injection Time:	06/02/16 17:53	**Supervisor approved:**	06/07/16 09:58 Melissa Mangual

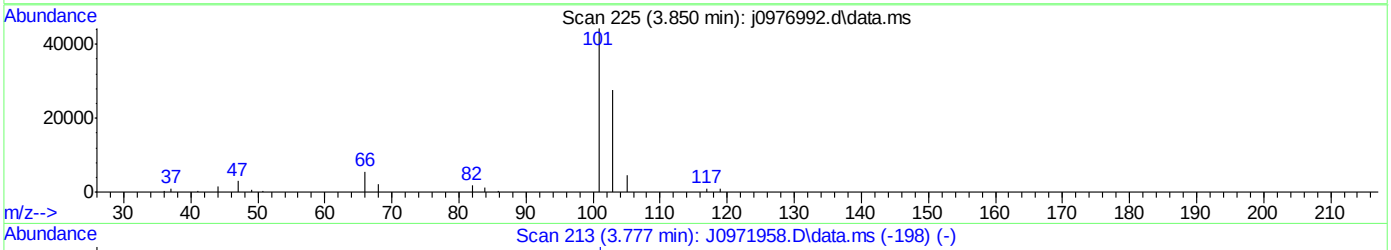
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.85	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

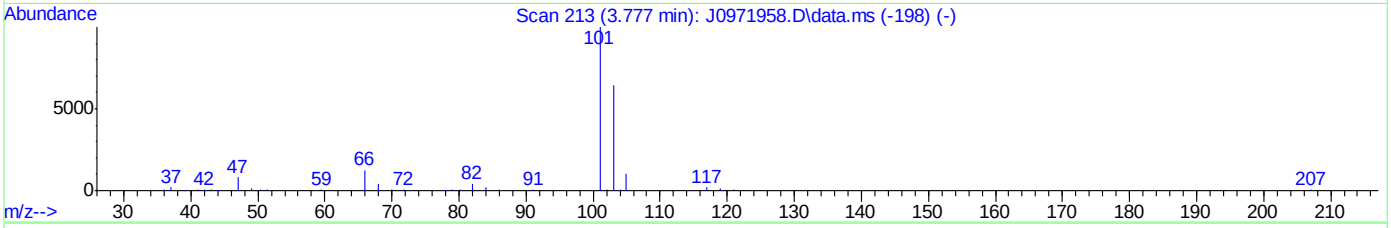
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976992.d
Acq On : 2 Jun 2016 5:53 pm
Operator : darshnap
Sample : fa34395-1ms ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 06 07:48:13 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976992.d\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.013) 13.02ug/L

response 153912

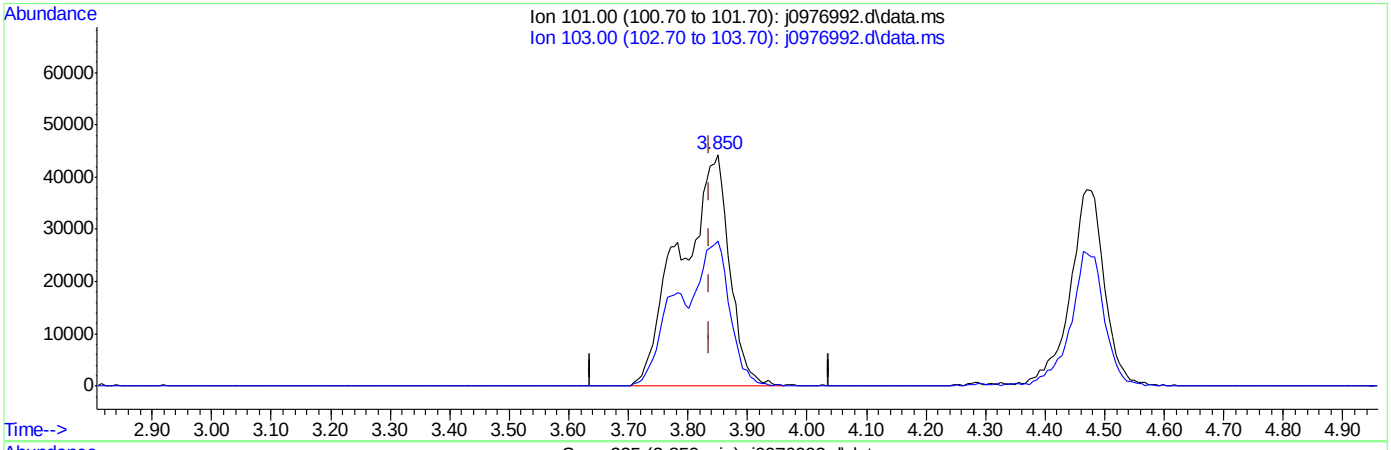
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.37
0.00	0.00	0.00
0.00	0.00	0.00

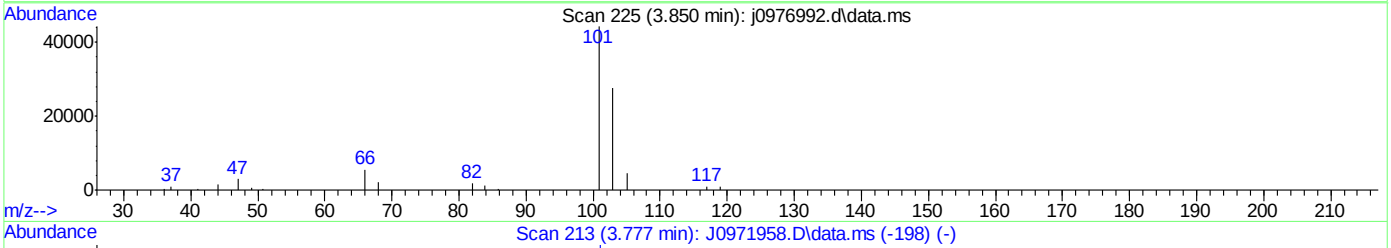
SGS ACCUTEST FA34367

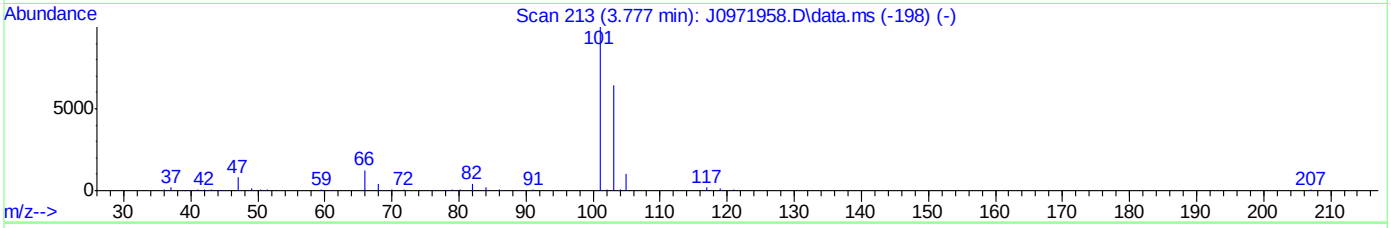
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976992.d
Acq On : 2 Jun 2016 5:53 pm
Operator : darshnap
Sample : fa34395-1ms ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 06 07:48:13 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976992.d\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.013) 21.48ug/L m

response 253910

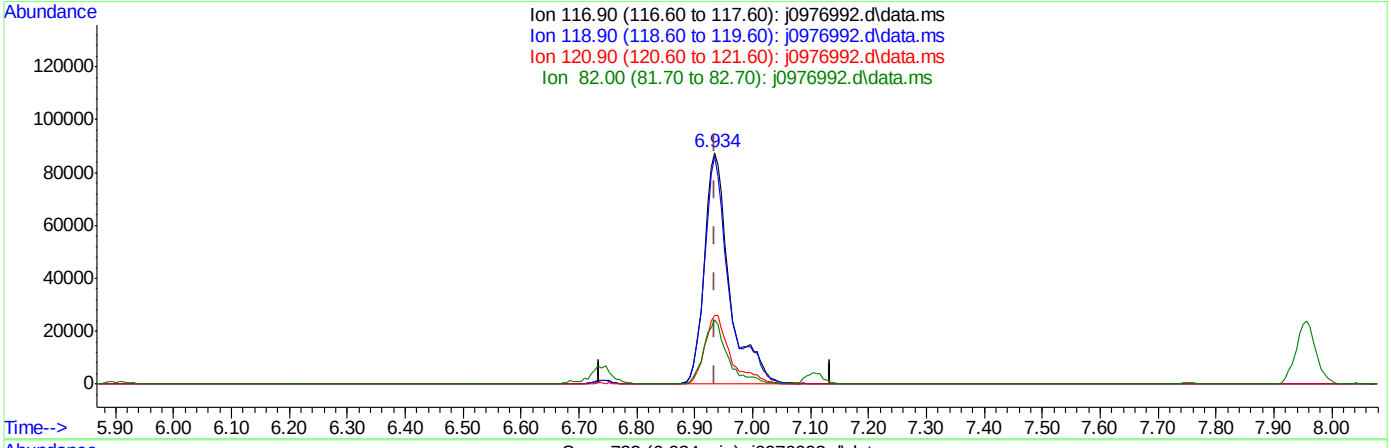
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.37
0.00	0.00	0.00
0.00	0.00	0.00

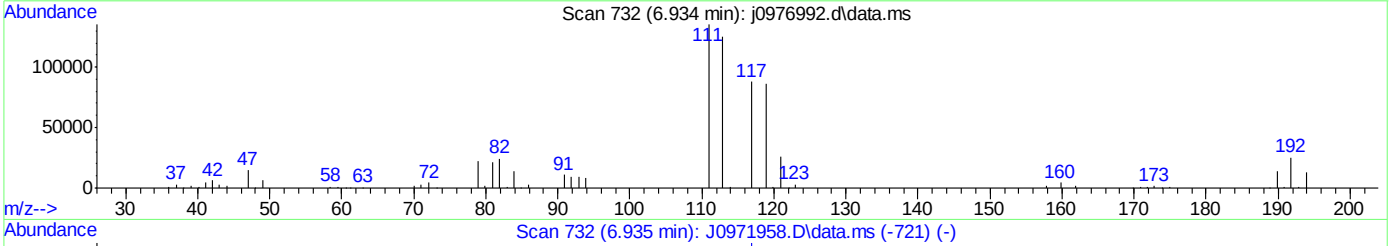
SGS ACCUTEST FA34367

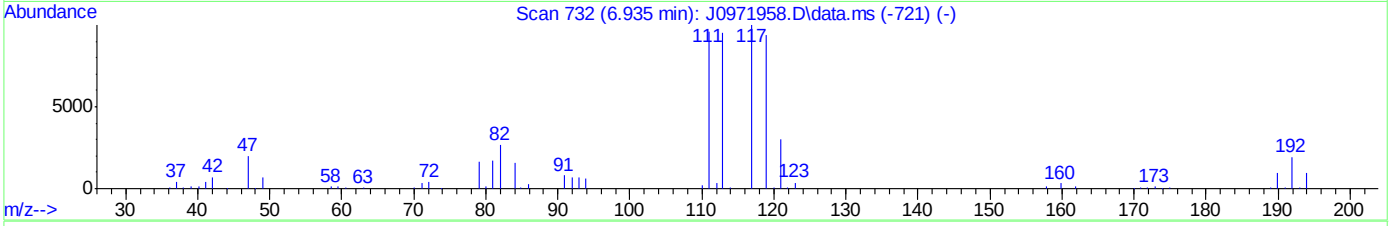
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976992.d
Acq On : 2 Jun 2016 5:53 pm
Operator : darshnap
Sample : fa34395-1ms ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 06 07:48:13 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976992.d\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 26.75ug/L

response 266487

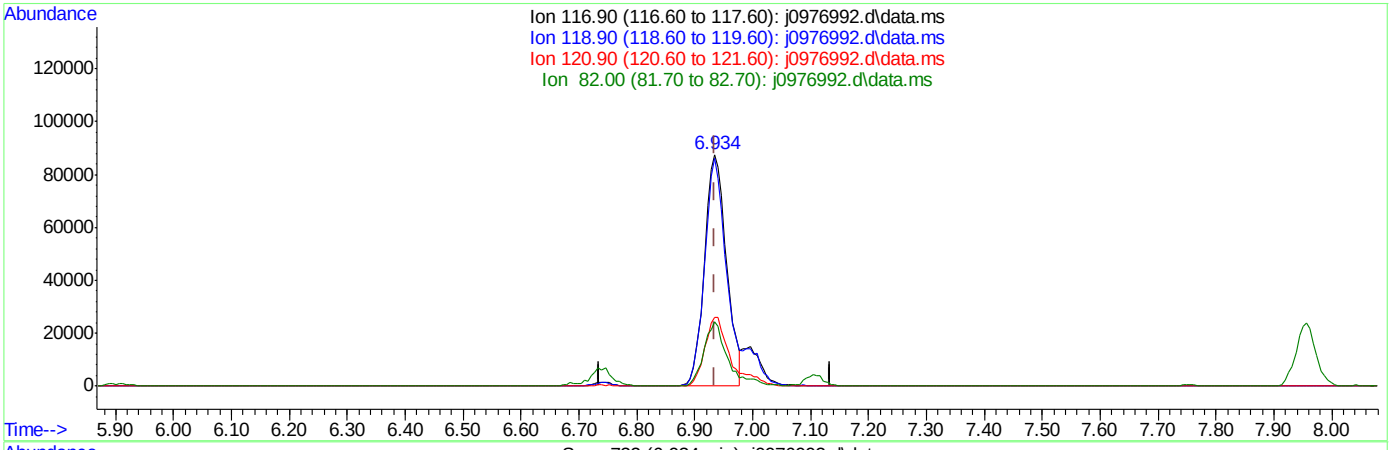
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.61
120.90	31.80	29.84
82.00	25.40	27.83

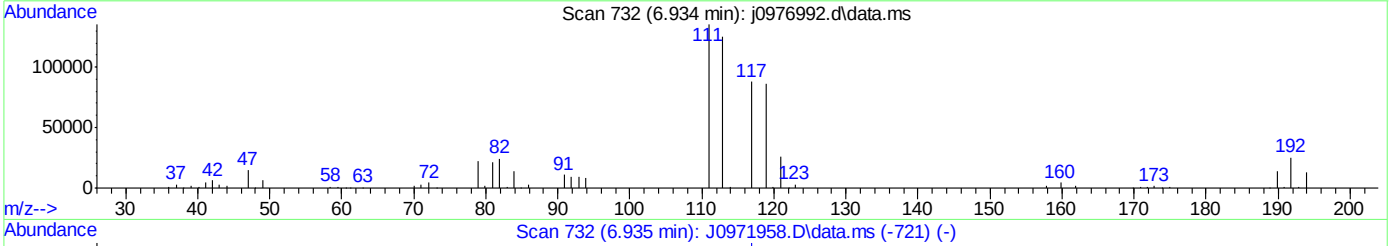
SGS ACCUTEST FA34367

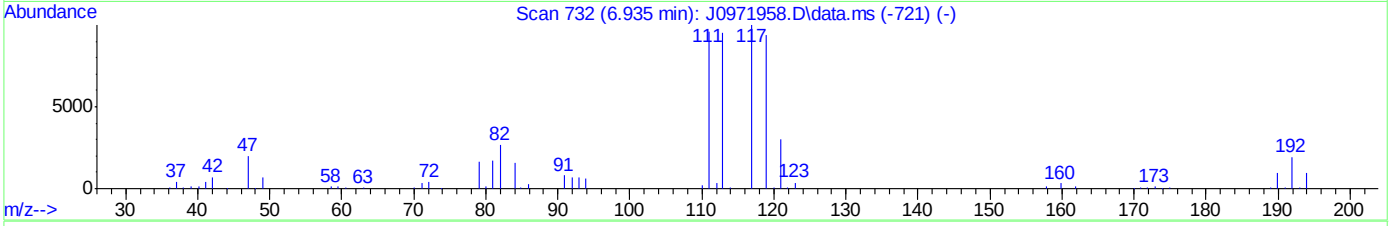
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976992.d
Acq On : 2 Jun 2016 5:53 pm
Operator : darshnap
Sample : fa34395-1ms ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 06 07:48:13 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976992.d\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 23.41ug/L m

response 233232

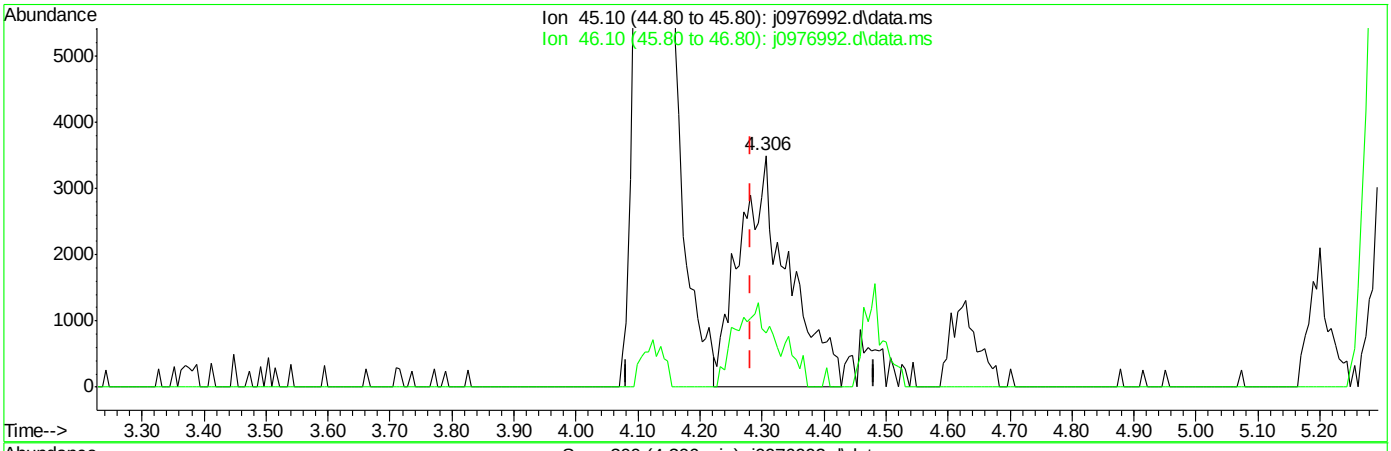
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.61
120.90	31.80	29.84
82.00	25.40	27.83

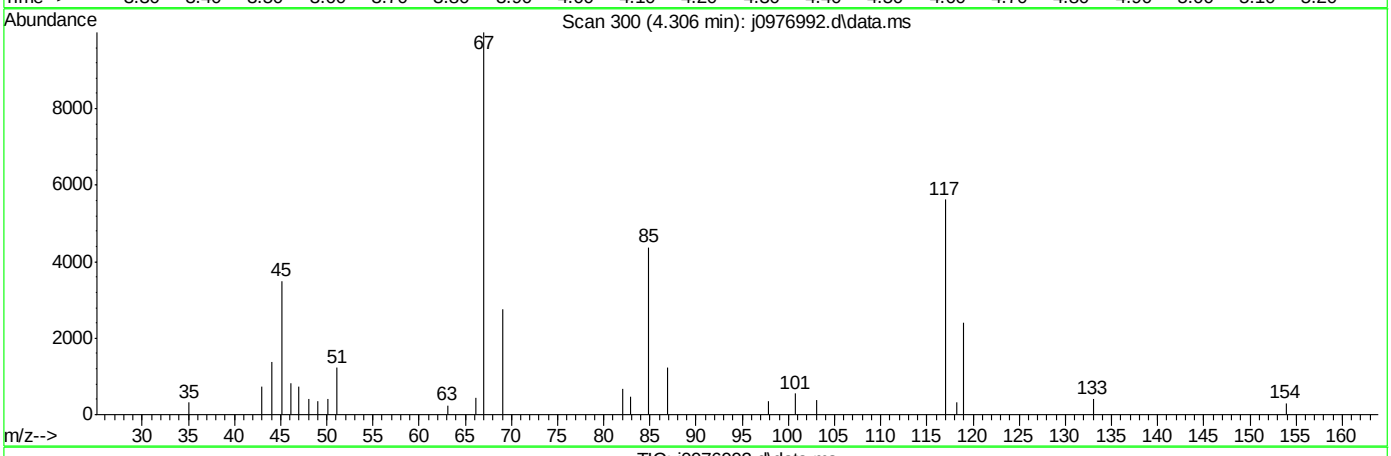
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976992.d
Acq On : 2 Jun 2016 5:53 pm
Operator : darshnap
Sample : fa34395-1ms ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 06 10:40:46 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration





TIC: j0976992.d\data.ms

(107) Ethanol

4.306min (+0.024) 431.33ug/L m

response 19062

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	23.61
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 06/07/16 09:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976993.d
Acq On : 2 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34395-1msd ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 07 10:01:02 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1253471	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	996377	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	555667	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	84878	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	320277	50.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.94%			
46) 1,2-Dichloroethane-d4	7.482	65	354607	49.57	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.14%			
57) Toluene-d8	9.301	98	1262386	50.10	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.20%			
79) 4-Bromofluorobenzene	12.051	95	507933	49.60	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	165621	20.41	ug/L	98
3) Chloromethane	2.901	50	201725	21.95	ug/L	99
4) Vinyl Chloride	3.053	62	189408	20.25	ug/L	96
5) 1,3-Butadiene	3.041	54	70065	18.21	ug/L	94
6) Bromomethane	3.467	94	118354	21.21	ug/L	97
7) Chloroethane	3.619	64	93700	20.89	ug/L	97
8) Trichlorofluoromethane	3.838	101	264623m	21.26	ug/L	
9) Ethyl Ether	4.124	59	127219	23.12	ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.361	67	236727	27.57	ug/L	99
11) 1,1-Dichloroethene	4.404	61	287690	26.82	ug/L	94
12) Freon 113	4.471	101	162972	21.75	ug/L	96
13) Carbon Disulfide	4.477	76	516229	20.80	ug/L	99
14) Iodomethane	4.592	142	275838	22.65	ug/L	97
15) Allyl chloride	4.927	41	155883	16.94	ug/L	95
16) Methylene Chloride	5.049	49	242444	25.36	ug/L	95
17) Acetone	5.073	58	47029	109.08	ug/L	94
18) Methyl acetate	5.195	74	91278	122.36	ug/L #	86
19) trans-1,2-Dichloroethene	5.237	61	264376	27.44	ug/L	98
20) Hexane	5.304	56	195804	30.53	ug/L	90
21) Methyl Tert Butyl Ether	5.341	73	1021327	54.57	ug/L	79
22) Acetonitrile	5.602	40	59271	208.70	ug/L	92
23) Di-isopropyl ether	5.718	45	492663	23.51	ug/L	99
24) Chloroprene	5.876	53	206603	20.87	ug/L	98
25) 1,1-Dichloroethane	5.900	63	334283	26.03	ug/L	98
26) Acrylonitrile	5.931	53	193576	107.82	ug/L	93
27) ETBE	6.119	59	491316	22.98	ug/L	96
28) Vinyl acetate	6.107	43	1024303	94.03	ug/L	99
29) cis-1,2-Dichloroethene	6.478	96	198211	23.95	ug/L	98
30) 2,2-Dichloropropane	6.606	77	235676	22.34	ug/L	95
31) Bromochloromethane	6.691	128	84740	22.85	ug/L	94
32) Cyclohexane	6.740	56	300383	25.22	ug/L	98
33) Chloroform	6.740	83	339714	24.43	ug/L	99
34) Ethyl acetate	6.807	43	416028	106.24	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976993.d
Acq On : 2 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34395-1msd ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 07 10:01:02 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.922	42	28884	24.88	ug/L		95
37)	Carbon Tetrachloride	6.935	117	236693m	22.56	ug/L		
38)	1,1,1-Trichloroethane	6.995	97	295673	23.83	ug/L		95
39)	2-Butanone	7.026	43	199083	116.60	ug/L		99
40)	1,1-Dichloropropene	7.105	75	236387	24.65	ug/L		98
41)	tert-Butyl Formate	7.190	59	48630	9.38	ug/L		82
42)	Propionitrile	7.330	54	148125	233.72	ug/L		77
43)	Methacrylonitrile	7.360	41	589208	224.50	ug/L		95
44)	Benzene	7.360	78	729433	24.23	ug/L		95
45)	TAME	7.433	73	423463	21.70	ug/L		96
47)	1,2-Dichloroethane	7.549	62	219703	23.78	ug/L		99
48)	Trichloroethene	7.932	95	194358	25.14	ug/L		97
49)	Methylcyclohexane	7.957	83	334107	25.19	ug/L		99
50)	Dibromomethane	8.358	93	96299	24.01	ug/L		96
51)	1,2-Dichloropropane	8.449	63	174414	23.36	ug/L		97
52)	Bromodichloromethane	8.498	83	207182	21.74	ug/L		96
53)	Methyl methacrylate	8.595	41	85499	23.37	ug/L		96
55)	cis-1,3-Dichloropropene	9.112	75	228792	21.36	ug/L		98
58)	Toluene	9.356	91	789480	24.92	ug/L		97
59)	2-Nitropropane	9.557	41	121330	118.41	ug/L		94
60)	4-Methyl-2-pentanone	9.672	43	507958	131.15	ug/L		99
61)	trans-1,3-Dichloropropene	9.739	75	217140	24.55	ug/L		96
62)	Tetrachloroethene	9.757	166	192635	24.13	ug/L		99
63)	Ethyl methacrylate	9.842	69	137605	19.57	ug/L		94
64)	1,1,2-Trichloroethane	9.903	83	127166	25.71	ug/L		97
65)	Dibromochloromethane	10.104	129	141024	21.85	ug/L		99
66)	1,3-Dichloropropane	10.183	76	241468	24.08	ug/L		99
67)	1,2-Dibromoethane	10.360	107	139254	25.13	ug/L		99
68)	2-hexanone	10.487	43	343758	121.36	ug/L		99
69)	1-Chlorohexane	10.798	91	239176	23.59	ug/L		93
70)	Ethylbenzene	10.858	91	935048	25.21	ug/L		99
71)	Chlorobenzene	10.865	112	538992	25.07	ug/L		98
72)	1,1,1,2-Tetrachloroethane	10.913	131	175453	24.59	ug/L		98
73)	m,p-Xylene	10.998	91	1436090	50.88	ug/L		99
74)	o-Xylene	11.436	91	718296	26.95	ug/L		99
75)	Styrene	11.485	104	509190	22.40	ug/L		99
76)	Bromoform	11.546	173	79734	19.00	ug/L		97
77)	Isopropylbenzene	11.741	105	884634	28.24	ug/L		100
80)	cis-1,4-Dichloro-2-butene	12.087	53	12178	7.67	ug/L		94
81)	n-Propylbenzene	12.160	91	1081331	27.54	ug/L		100
82)	Bromobenzene	12.185	156	231710	24.81	ug/L		99
83)	1,1,2,2-Tetrachloroethane	12.221	83	180737	25.36	ug/L		96
84)	1,3,5-Trimethylbenzene	12.343	105	760591	26.39	ug/L		99
85)	2-Chlorotoluene	12.349	91	752881	26.34	ug/L		99
86)	trans-1,4-Dichloro-2-B...	12.398	53	13612	9.07	ug/L	#	17
87)	1,2,3-Trichloropropane	12.379	110	47218	25.84	ug/L		98
88)	Cyclohexanone	12.452	55	15470	78.04	ug/L		96
89)	4-Chlorotoluene	12.519	91	679217	26.42	ug/L		99
90)	a-Methyl Styrene	12.750	118	8212	0.50	ug/L	#	1
91)	tert-Butylbenzene	12.684	91	440462	26.46	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976993.d
Acq On : 2 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34395-1msd ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 07 10:01:02 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.750	105	768668	26.65	ug/L		99
93)	Pentachloroethane	12.738	167	122918	21.87	ug/L		97
94)	sec-Butylbenzene	12.866	105	970587	27.95	ug/L		98
95)	4-Isopropyltoluene	13.000	119	811836	26.79	ug/L		99
96)	1,3-Dichlorobenzene	13.134	146	412168	25.54	ug/L		98
97)	1,4-Dichlorobenzene	13.219	146	419161	24.70	ug/L		97
98)	n-Butylbenzene	13.432	92	433674	26.26	ug/L		98
99)	Benzyl Chloride	13.450	126	46829	19.10	ug/L	#	78
100)	1,2-Dichlorobenzene	13.645	146	374137	24.85	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.381	75	22820	23.13	ug/L		96
102)	Hexachlorobutadiene	14.928	225	167251	24.88	ug/L		96
103)	1,2,4-Trichlorobenzene	14.971	180	250420	25.01	ug/L		98
104)	Naphthalene	15.257	128	399892	26.69	ug/L		97
105)	1,2,3-Trichlorobenzene	15.427	180	213642	24.75	ug/L		96
107)	Ethanol	4.288	45	23729m	498.58	ug/L		
108)	acrolein	4.763	56	78777	110.24	ug/L		100
109)	Tert Butyl Alcohol	5.377	59	427916	1128.32	ug/L		87
110)	tert Amyl alcohol	7.573	59	75601	241.42	ug/L		93
111)	Isobutyl alcohol	7.452	42	62190	449.14	ug/L		89
112)	1,4-Dioxane	8.674	88	23322	471.28	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.433	57	455973	1194.29	ug/L		98

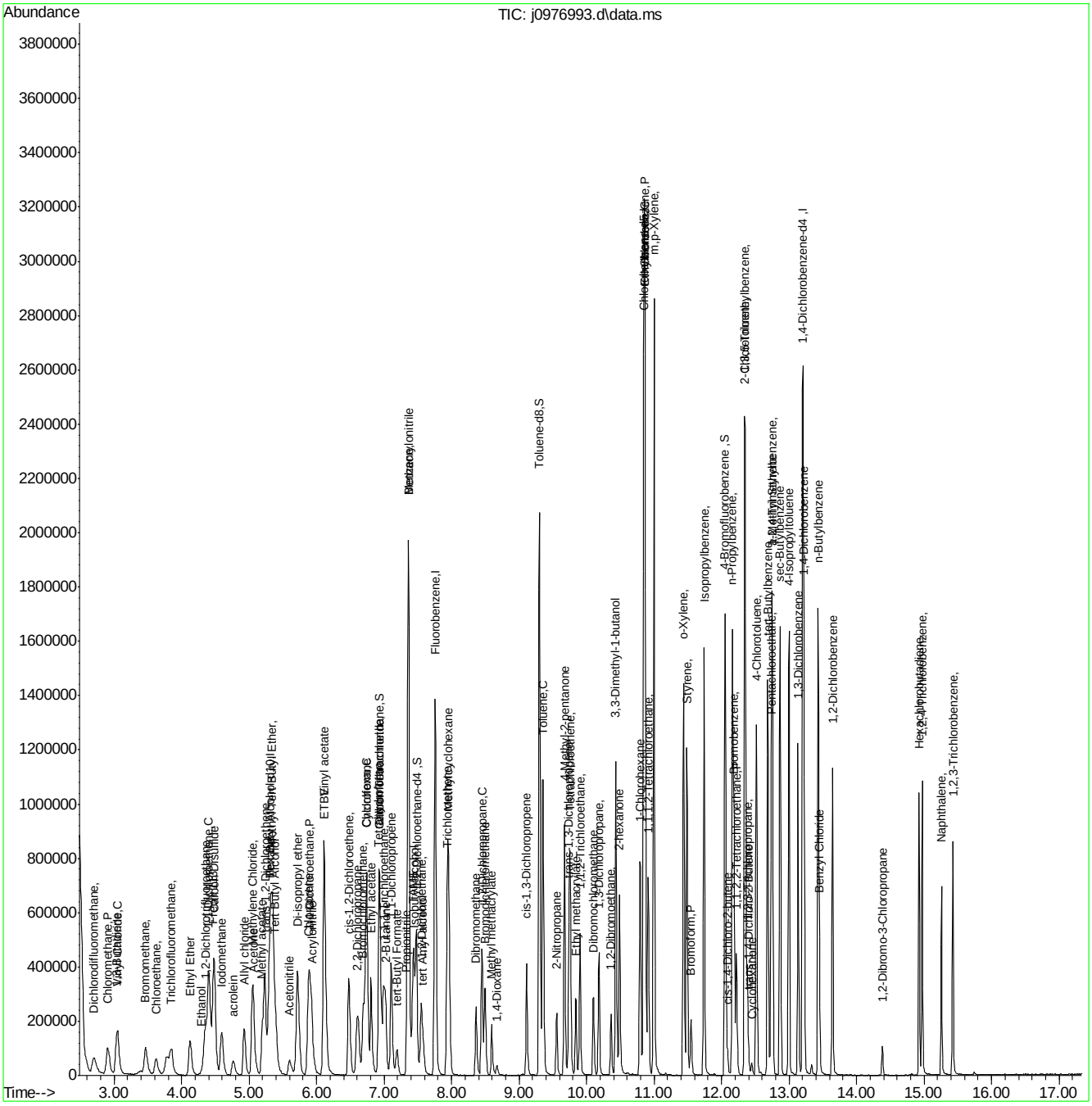
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976993.d
Acq On : 2 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34395-1msd ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 07 10:01:02 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

Sample Number:	FA34395-1MSD	**Method:**	SW846 8260C
Lab FileID:	J0976993.D	**Analyst approved:**	06/06/16 16:31 Stuti Patel
Injection Time:	06/02/16 18:16	**Supervisor approved:**	06/07/16 09:58 Melissa Mangual

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976993.d
Acq On : 2 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34395-1msd ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 06 07:48:16 2016
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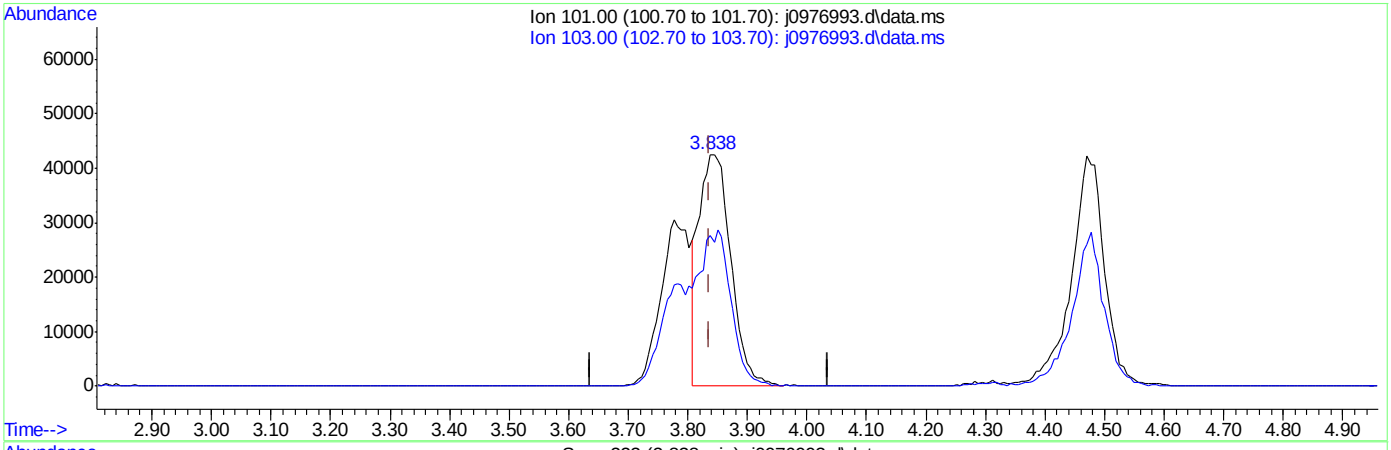
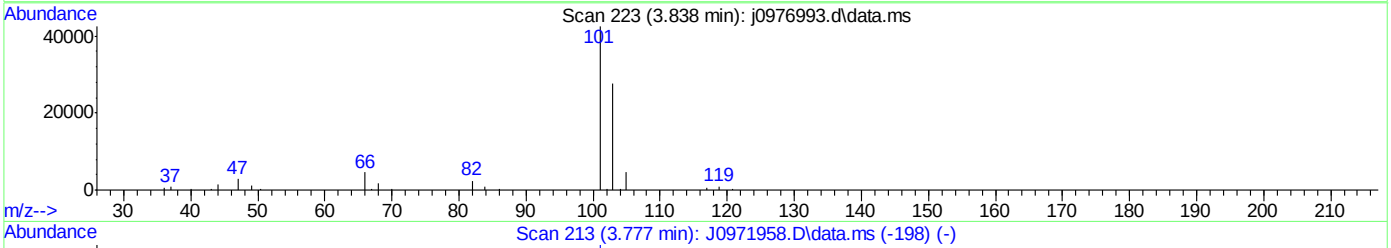
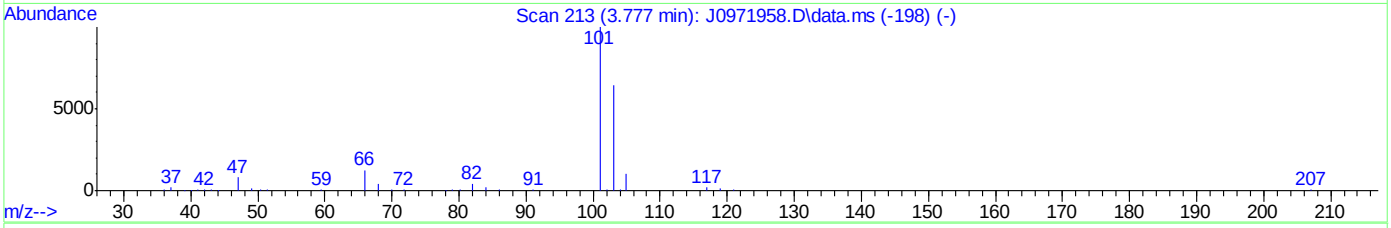
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976993.d\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.001) 12.71ug/L

response 158135

Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.94
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976993.d
Acq On : 2 Jun 2016 6:16 pm
Operator : darshnap
Sample : fa34395-1msd ma
Misc : MS34060,VJ5326,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 06 07:48:16 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
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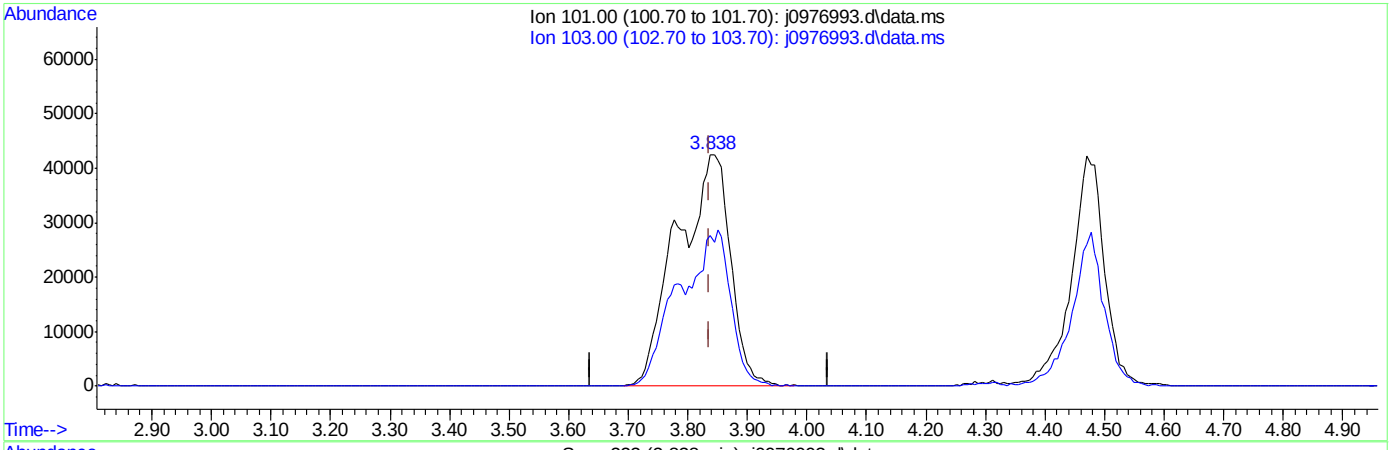
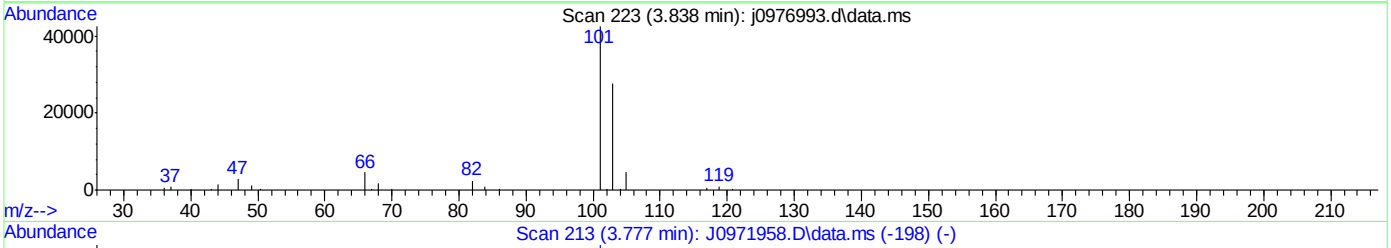
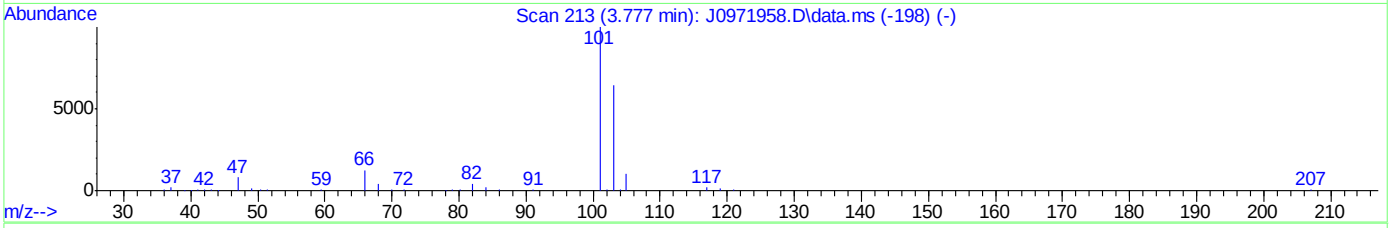






TIC: j0976993.d\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.001) 21.26ug/L m

response 264623

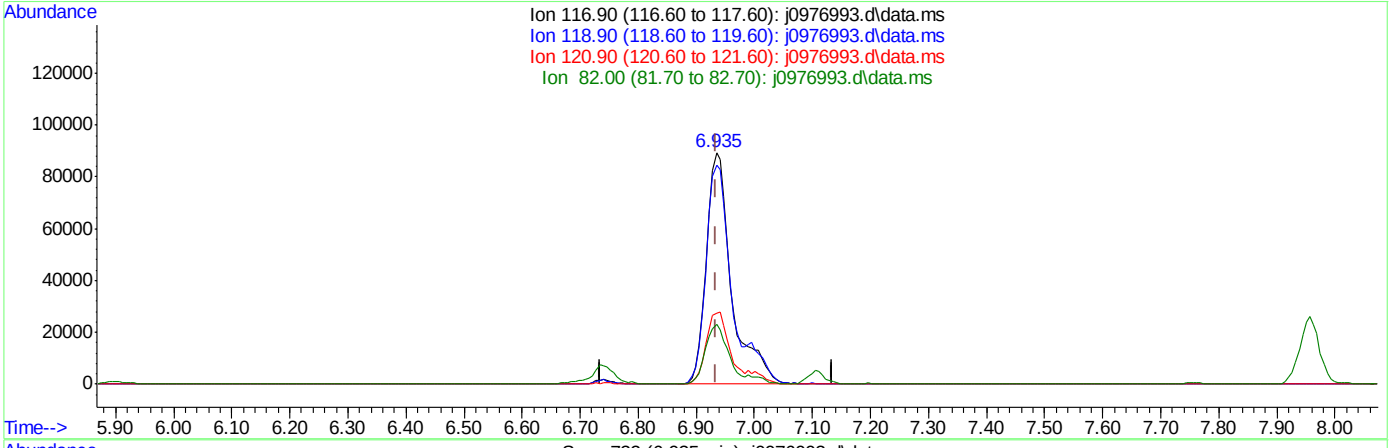
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.94
0.00	0.00	0.00
0.00	0.00	0.00

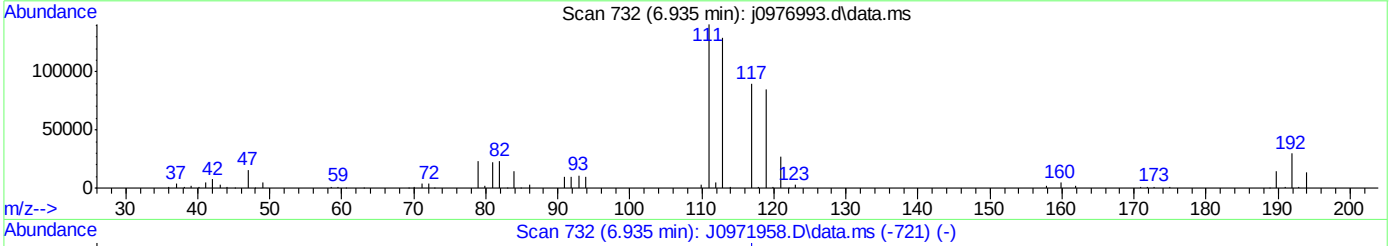
SGS ACCUTEST FA34367

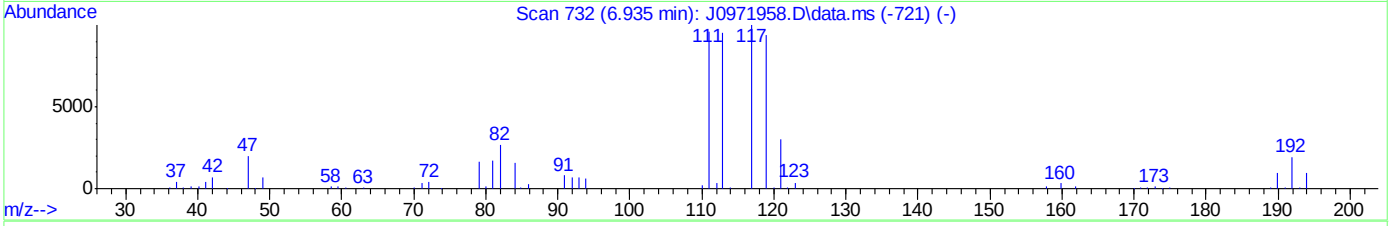
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\160602\
Data File : j0976993.d
Acq On    :  2 Jun 2016   6:16 pm
Operator  : darshnap
Sample    : fa34395-1msd ma
Misc      : MS34060,VJ5326,,,,,
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Jun 06 07:48:16 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title  : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration
```







TIC: j0976993.d\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.000) 25.98ug/L

response 272582

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.70
120.90	31.80	30.74
82.00	25.40	25.94

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\160602\
Data File : j0976993.d
Acq On    :  2 Jun 2016   6:16 pm
Operator  : darshnap
Sample    : fa34395-1msd ma
Misc      : MS34060,VJ5326,,,,,
ALS Vial  : 19   Sample Multiplier: 1

Quant Time: Jun 06 07:48:16 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title  : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration
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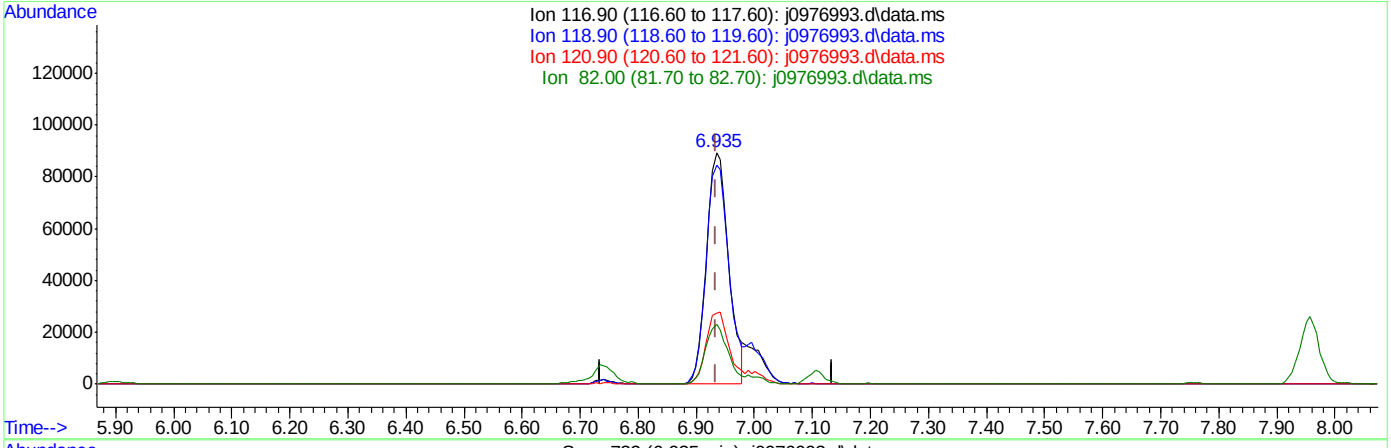
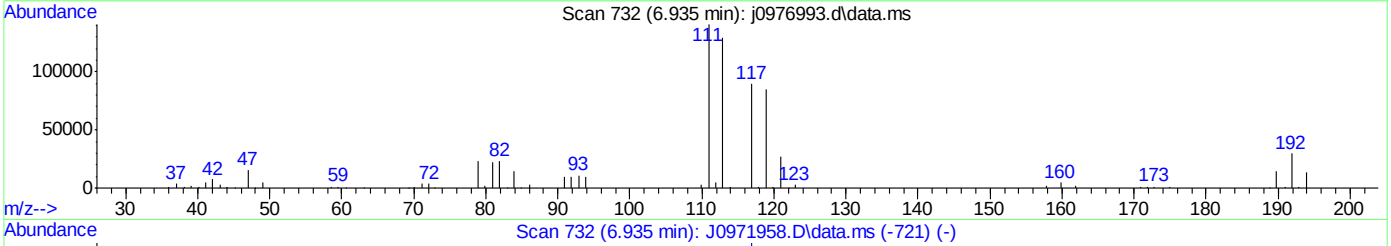
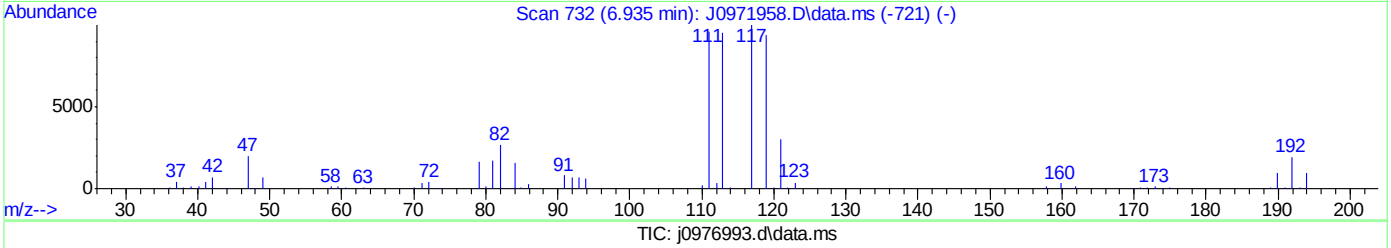






TIC: j0976993.d\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.000) 22.56ug/L m

response 236693

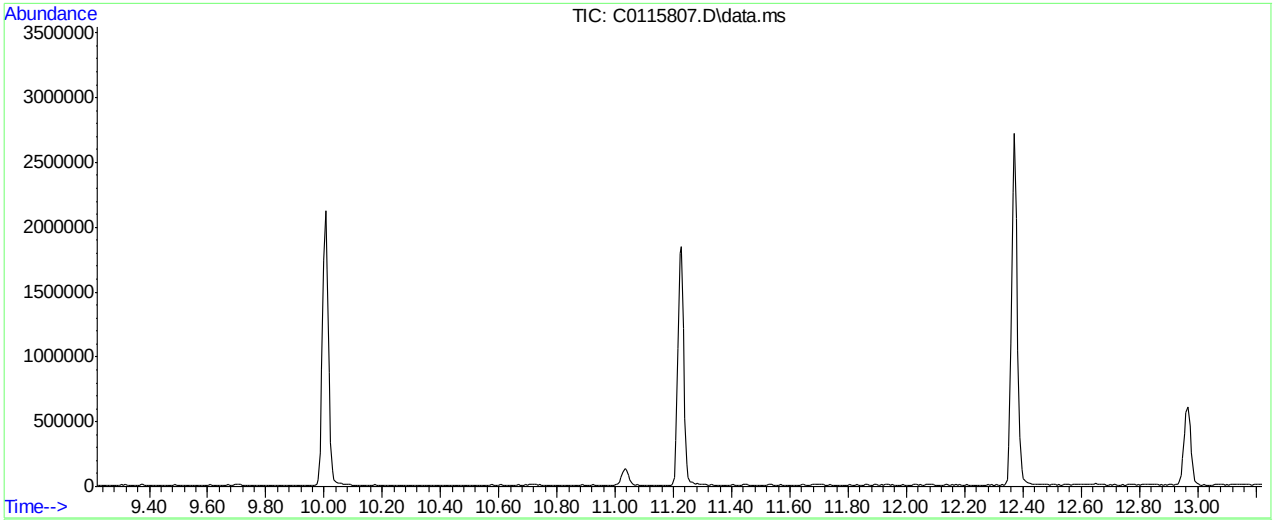
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.70
120.90	31.80	30.74
82.00	25.40	25.94

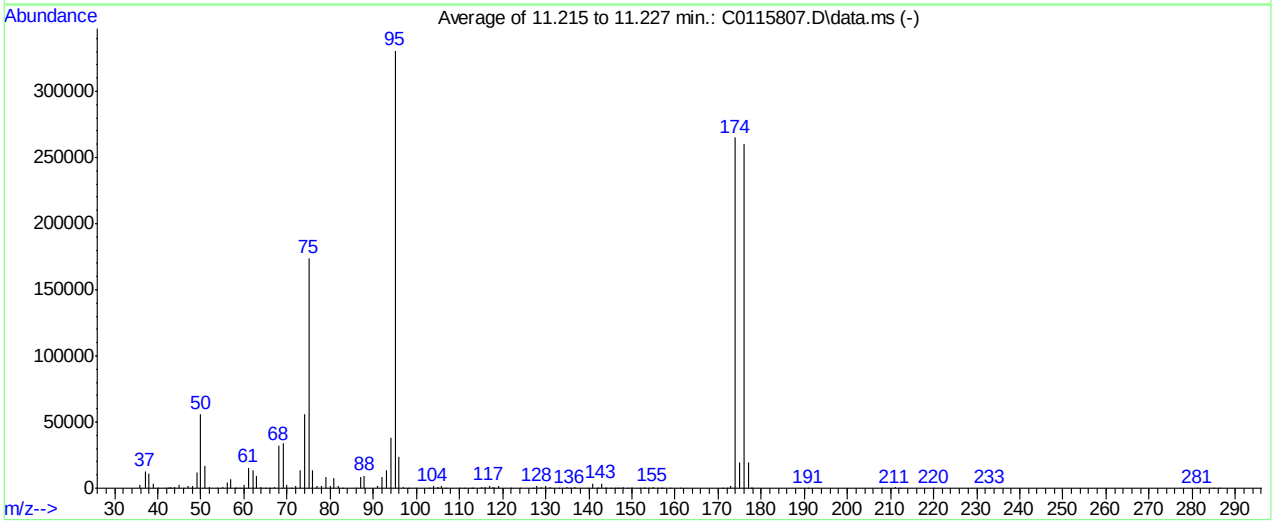
SGS ACCUTEST FA34367

Methods: SW-846 8260B

```
Data File : C:\msdchem\2\DATA\052316\C0115807.D          Vial: 5
Acq On    : 23 May 2016   8:54 am                    Operator: ericp
Sample    : BFB                                      Inst    : MSVOA5
Misc      : ms33941,vc4602,5.00,,,5,,                Multiplr: 1.00
MS Integration Params: rteint.p

Method    : C:\msdchem\2\MET...316APP9-C-Soil.m (RTE Integrator)
Title     : SW-846 Method 5035A/8260B
```





Spectrum Information: Average of 11.215 to 11.227 min.

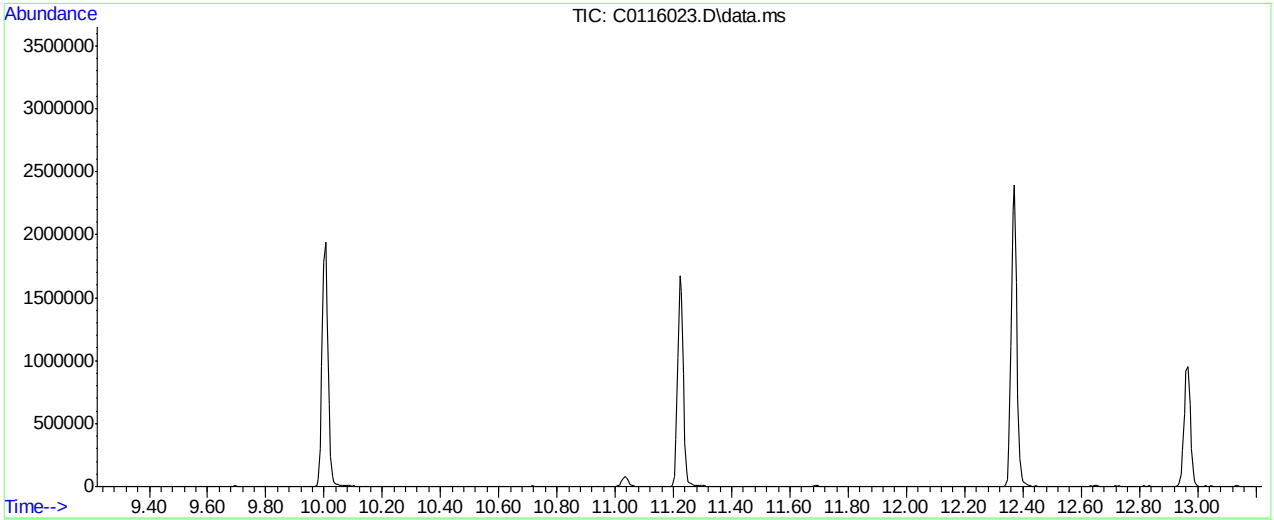
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	56165	PASS
75	95	30	60	52.6	173901	PASS
95	95	100	100	100.0	330837	PASS
96	95	5	9	7.3	24038	PASS
173	174	0.00	2	0.5	1319	PASS
174	95	50	100	80.2	265195	PASS
175	174	5	9	7.4	19526	PASS
176	174	95	101	98.0	259840	PASS
177	176	5	9	7.4	19198	PASS

C0115807.D 052316APP9-C-Soil.m Mon May 23 14:33:16 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\DATA\060116\C0116023.D Vial: 5
Acq On : 1 Jun 2016 9:24 am Operator: ericp
Sample : BFB Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\2\MET...316APP9-C-Soil.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B



Spectrum Information: Average of 11.215 to 11.227 min.

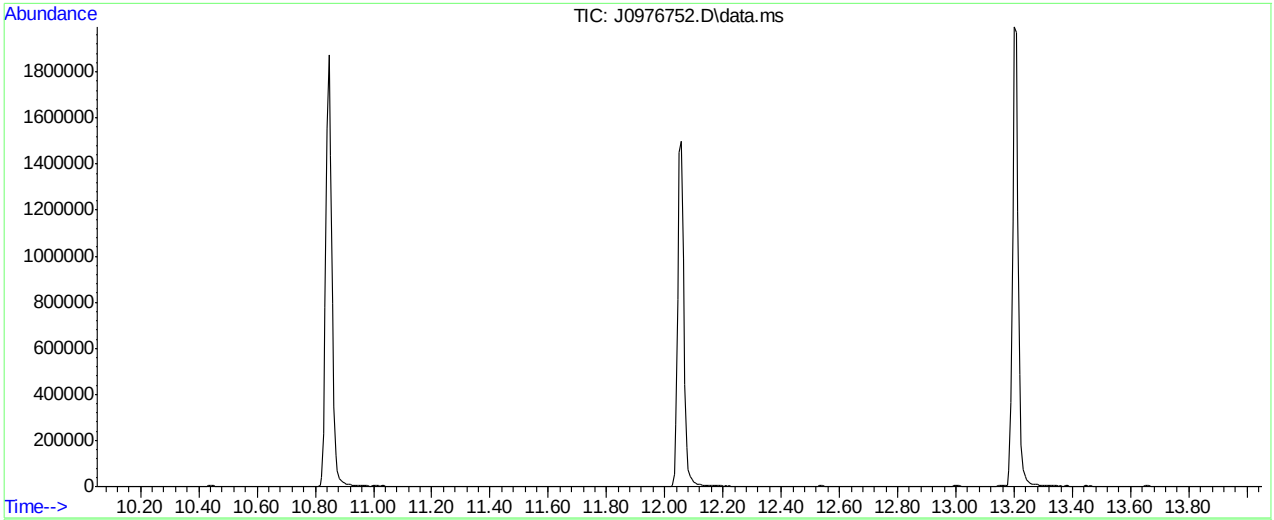
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.5	52555	PASS
75	95	30	60	52.3	157387	PASS
95	95	100	100	100.0	301099	PASS
96	95	5	9	7.0	21221	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.7	237013	PASS
175	174	5	9	7.6	17943	PASS
176	174	95	101	95.6	226645	PASS
177	176	5	9	6.8	15380	PASS

C0116023.D 052316APP9-C-Soil.m Wed Jun 01 13:56:49 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\data\052416\J0976752.D Vial: 1
Acq On : 24 May 2016 9:52 am Operator: DARSHNAP
Sample : bfb Inst : MSVOA6
Misc : MS33959,VJ5312,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 1572, 1573, 1574; Background Corrected with Scan 1566

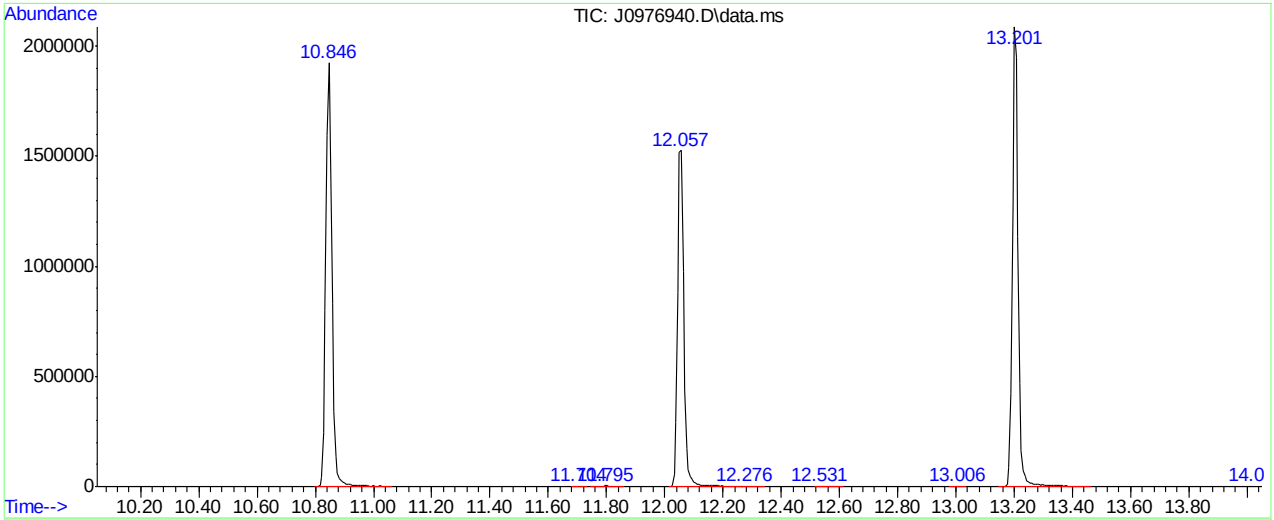
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.0	47293	PASS
75	95	30	60	50.4	132477	PASS
95	95	100	100	100.0	262912	PASS
96	95	5	9	6.8	17827	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.3	208573	PASS
175	174	5	9	7.7	16138	PASS
176	174	95	101	97.3	202843	PASS
177	176	5	9	6.9	13948	PASS

J0976752.D MSJ052316a.M Wed May 25 08:21:03 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\data\060116\J0976940.D Vial: 1
Acq On : 1 Jun 2016 8:19 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34031,VJ5323,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ052316a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 1572, 1573, 1574; Background Corrected with Scan 1566

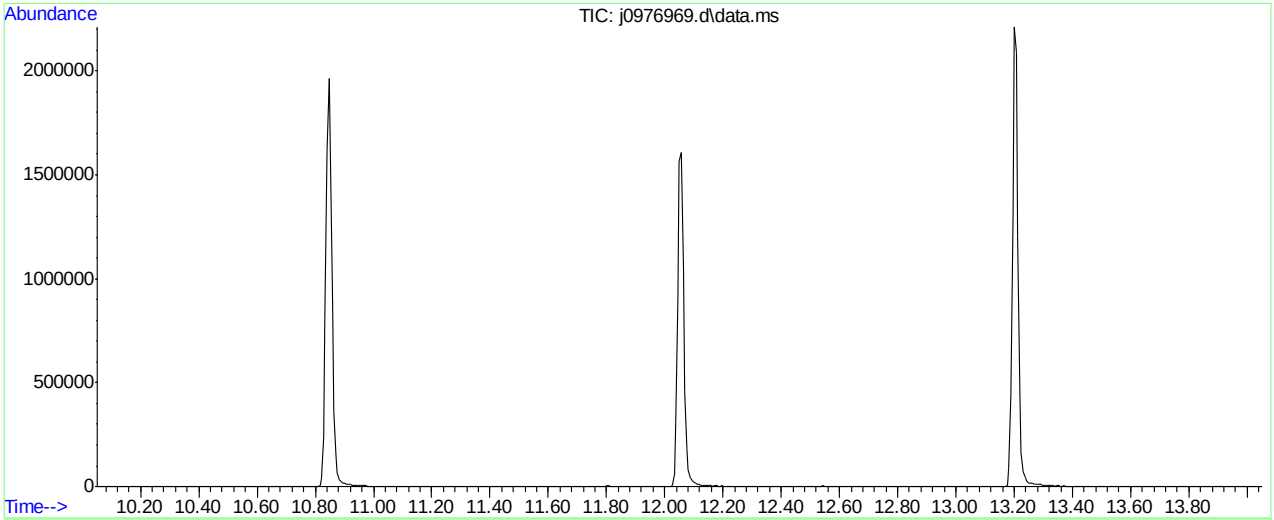
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.6	46443	PASS
75	95	30	60	49.2	137635	PASS
95	95	100	100	100.0	279765	PASS
96	95	5	9	6.9	19295	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.9	220680	PASS
175	174	5	9	8.0	17607	PASS
176	174	95	101	96.1	212131	PASS
177	176	5	9	6.8	14339	PASS

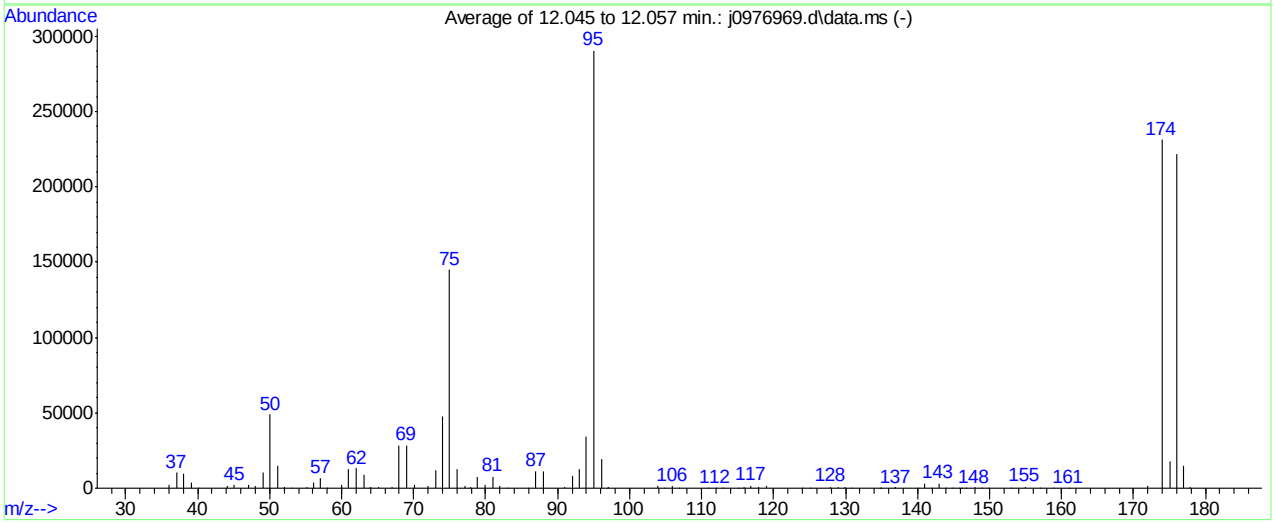
J0976940.D MSJ052316a.M Thu Jun 02 08:37:24 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\160602\j0976969.d Vial: 1
Acq On : 2 Jun 2016 8:00 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34048,VJ5325,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ052316a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1572, 1573, 1574; Background Corrected with Scan 1566

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	48896	PASS
75	95	30	60	49.8	144805	PASS
95	95	100	100	100.0	290496	PASS
96	95	5	9	6.7	19512	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.6	231104	PASS
175	174	5	9	7.9	18162	PASS
176	174	95	101	95.8	221440	PASS
177	176	5	9	6.9	15228	PASS

j0976969.d MSJ052316a.M Mon Jun 06 07:57:04 2016

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/24/16 10:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115808.D
Acq On : 23 May 2016 9:20 am
Operator : ericp
Sample : IC4602-1 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 11:37:52 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:37:12 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.883	96	956891	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	771506	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	496474	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.523	65	146788	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	333633	52.68	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.36%			
44) 1,2-Dichloroethane-d4	6.610	65	362561	52.59	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 105.18%			
55) Toluene-d8	8.453	98	1055330	48.55	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.10%			
77) 4-Bromofluorobenzene	11.227	174	360297	47.02	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 94.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	70245	5.66	ug/Kg	97
3) Chloromethane	2.412	50	48878	5.46	ug/Kg	89
4) Vinyl Chloride	2.509	62	46533	5.86	ug/Kg	99
5) Bromomethane	2.868	94	30601	5.84	ug/Kg	94
6) Chloroethane	3.008	64	20786	5.46	ug/Kg	96
7) Trichlorofluoromethane	3.172	101	84269	5.42	ug/Kg	95
8) Ethyl Ether	3.440	59	22758	5.44	ug/Kg	99
9) 1,2-Dichlorotrifluoroe...	3.653	67	42548	5.46	ug/Kg	94
10) 1,1-Dichloroethene	3.671	61	64944	5.41	ug/Kg	89
11) Freon 113	3.726	101	45424	5.54	ug/Kg	96
12) Carbon Disulfide	3.714	76	121485	5.56	ug/Kg	99
13) Iodomethane	3.823	142	82865	5.72	ug/Kg	89
14) Allyl chloride	4.146	41	50317	5.10	ug/Kg	92
15) Methylene Chloride	4.255	49	56961	6.85	ug/Kg	94
16) Acetone	4.310	43	51353	36.70	ug/Kg	89
17) Methyl acetate	4.420	43	72367	29.87	ug/Kg	95
18) trans-1,2-Dichloroethene	4.420	61	55056	5.51	ug/Kg	97
19) Hexane	4.486	56	26022	5.68	ug/Kg	97
20) Methyl Tert Butyl Ether	4.511	73	102678	5.53	ug/Kg	94
21) Acetonitrile	4.791	41	21115	70.95	ug/Kg	77
22) Di-isopropyl ether	4.876	45	81170	5.35	ug/Kg	97
23) Chloroprene	5.016	53	77977	5.42	ug/Kg	91
24) 1,1-Dichloroethane	5.046	63	64744	5.37	ug/Kg	98
25) Acrylonitrile	5.101	52	30378	29.62	ug/Kg	90
26) ETBE	5.253	59	105885	5.57	ug/Kg	97
27) Vinyl acetate	5.271	43	225512	30.85	ug/Kg	98
28) cis-1,2-Dichloroethene	5.594	96	47489	5.73	ug/Kg	94
29) 2,2-Dichloropropane	5.709	77	56629	5.81	ug/Kg	100
30) Bromochloromethane	5.801	128	22942	5.80	ug/Kg	88
31) Cyclohexane	5.813	84	63430	5.44	ug/Kg	91
32) Chloroform	5.861	83	77815	5.56	ug/Kg	88
33) Ethyl acetate	5.965	43	78495	28.59	ug/Kg	95
34) Tetrahydrofuran	6.050	42	6123	7.80	ug/Kg	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115808.D
Acq On : 23 May 2016 9:20 am
Operator : ericp
Sample : IC4602-1 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 11:37:52 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:37:12 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.013	117	89296	5.45	ug/Kg	89
37)	1,1,1-Trichloroethane	6.086	97	79589	5.16	ug/Kg	87
38)	2-Butanone	6.184	43	44008	27.78	ug/Kg	88
39)	1,1-Dichloropropene	6.214	75	53943	5.70	ug/Kg	88
40)	Propionitrile	6.494	54	32784	71.59	ug/Kg#	68
41)	Methacrylonitrile	6.518	41	122798	62.48	ug/Kg	94
42)	Benzene	6.470	78	130664	5.63	ug/Kg	100
43)	TAME	6.561	73	96017	5.45	ug/Kg	93
45)	1,2-Dichloroethane	6.683	62	52212	5.64	ug/Kg	92
46)	Trichloroethene	7.054	95	38671	5.60	ug/Kg	88
47)	Methylcyclohexane	7.048	83	69291	5.33	ug/Kg	95
48)	Dibromomethane	7.492	93	21257	5.27	ug/Kg	91
49)	1,2-Dichloropropane	7.595	63	28972	5.41	ug/Kg	81
50)	Bromodichloromethane	7.644	83	54869	5.65	ug/Kg	93
51)	Methyl methacrylate	7.772	41	19250	6.01	ug/Kg	93
52)	2-Chloroethyl vinyl ether	8.191	63	57763	28.79	ug/Kg	93
53)	cis-1,3-Dichloropropene	8.270	75	46016	5.41	ug/Kg	96
56)	Toluene	8.502	91	146560	5.47	ug/Kg	94
57)	2-Nitropropane	8.745	41	44337	28.98	ug/Kg	98
58)	4-Methyl-2-pentanone	8.867	43	120923	26.19	ug/Kg	94
59)	trans-1,3-Dichloropropene	8.915	75	34327	5.47	ug/Kg	81
60)	Tetrachloroethene	8.891	166	46867	5.40	ug/Kg	93
61)	Ethyl methacrylate	9.043	69	29242	5.10	ug/Kg	92
62)	1,1,2-Trichloroethane	9.080	83	20150	5.40	ug/Kg	85
63)	Dibromochloromethane	9.262	129	34602	4.93	ug/Kg	98
64)	1,3-Dichloropropane	9.353	76	36104	5.07	ug/Kg	85
65)	1,2-Dibromoethane	9.518	107	23980	4.99	ug/Kg	98
66)	2-hexanone	9.694	43	69142	28.11	ug/Kg	99
67)	1-Chlorohexane	9.974	91	49296	5.60	ug/Kg	93
68)	Ethylbenzene	10.029	91	159104	5.56	ug/Kg	95
69)	Chlorobenzene	10.023	112	82901	5.37	ug/Kg	95
70)	1,1,1,2-Tetrachloroethane	10.077	131	44313	5.06	ug/Kg	97
71)	m,p-Xylene	10.175	91	276124	10.18	ug/Kg	98
72)	o-Xylene	10.613	91	158457	5.46	ug/Kg	98
73)	Styrene	10.667	104	94319	5.49	ug/Kg	94
74)	Bromoform	10.716	173	20964	5.11	ug/Kg	96
75)	Isopropylbenzene	10.917	105	199147	4.59	ug/Kg	91
78)	cis-1,4-Dichloro-2-butene	11.288	53	8175	5.50	ug/Kg	94
79)	n-Propylbenzene	11.337	91	200422	5.48	ug/Kg	100
80)	Bromobenzene	11.343	156	43446	5.30	ug/Kg	95
81)	1,1,2,2-Tetrachloroethane	11.422	83	34454	5.04	ug/Kg	98
82)	1,3,5-Trimethylbenzene	11.531	105	167967	5.32	ug/Kg	99
83)	2-Chlorotoluene	11.519	91	153109	5.40	ug/Kg	94
84)	trans-1,4-Dichloro-2-B...	11.598	53	7960	5.57	ug/Kg#	69
85)	1,2,3-Trichloropropane	11.568	110	12120	5.43	ug/Kg	86
86)	Cyclohexanone	11.629	55	11412	35.28	ug/Kg#	73
87)	4-Chlorotoluene	11.689	91	133128	5.66	ug/Kg	96
88)	tert-Butylbenzene	11.866	91	91642	4.63	ug/Kg	93
89)	1,2,4-Trimethylbenzene	11.939	105	164565	5.38	ug/Kg	97
90)	Pentachloroethane	11.908	167	28002	4.57	ug/Kg	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115808.D
Acq On : 23 May 2016 9:20 am
Operator : ericp
Sample : IC4602-1 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 11:37:52 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:37:12 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.048	105	198187	5.21	ug/Kg	98
92)	4-Isopropyltoluene	12.188	119	181878	5.26	ug/Kg	96
93)	1,3-Dichlorobenzene	12.298	146	89007	5.49	ug/Kg	96
94)	1,4-Dichlorobenzene	12.389	146	77658	5.39	ug/Kg	98
95)	n-Butylbenzene	12.626	92	94848	5.40	ug/Kg	92
96)	Benzyl Chloride	12.638	126	17801	5.64	ug/Kg	99
97)	1,2-Dichlorobenzene	12.833	146	92660	5.37	ug/Kg	97
98)	1,2-Dibromo-3-Chloropr...	13.642	75	10897	5.40	ug/Kg	90
99)	Hexachlorobutadiene	14.220	225	48549	5.41	ug/Kg	92
100)	1,2,4-Trichlorobenzene	14.263	180	78580	5.41	ug/Kg	96
101)	Naphthalene	14.555	128	168243	5.49	ug/Kg	99
102)	1,2,3-Trichlorobenzene	14.713	180	78727	5.49	ug/Kg	92
104)	Ethanol	3.592	45	2937m	97.32	ug/Kg	
105)	Acrolein	4.018	56	23648	23.40	ug/Kg	81
106)	Tert butyl alcohol	4.590	59	37716	50.80	ug/Kg	86
107)	Isobutyl alcohol	6.652	42	11516	101.92	ug/Kg#	78
108)	Tert Amyl Alcohol	6.756	59	27247	45.60	ug/Kg	84
109)	1,4-Dioxane	7.845	88	7526	99.04	ug/Kg	72

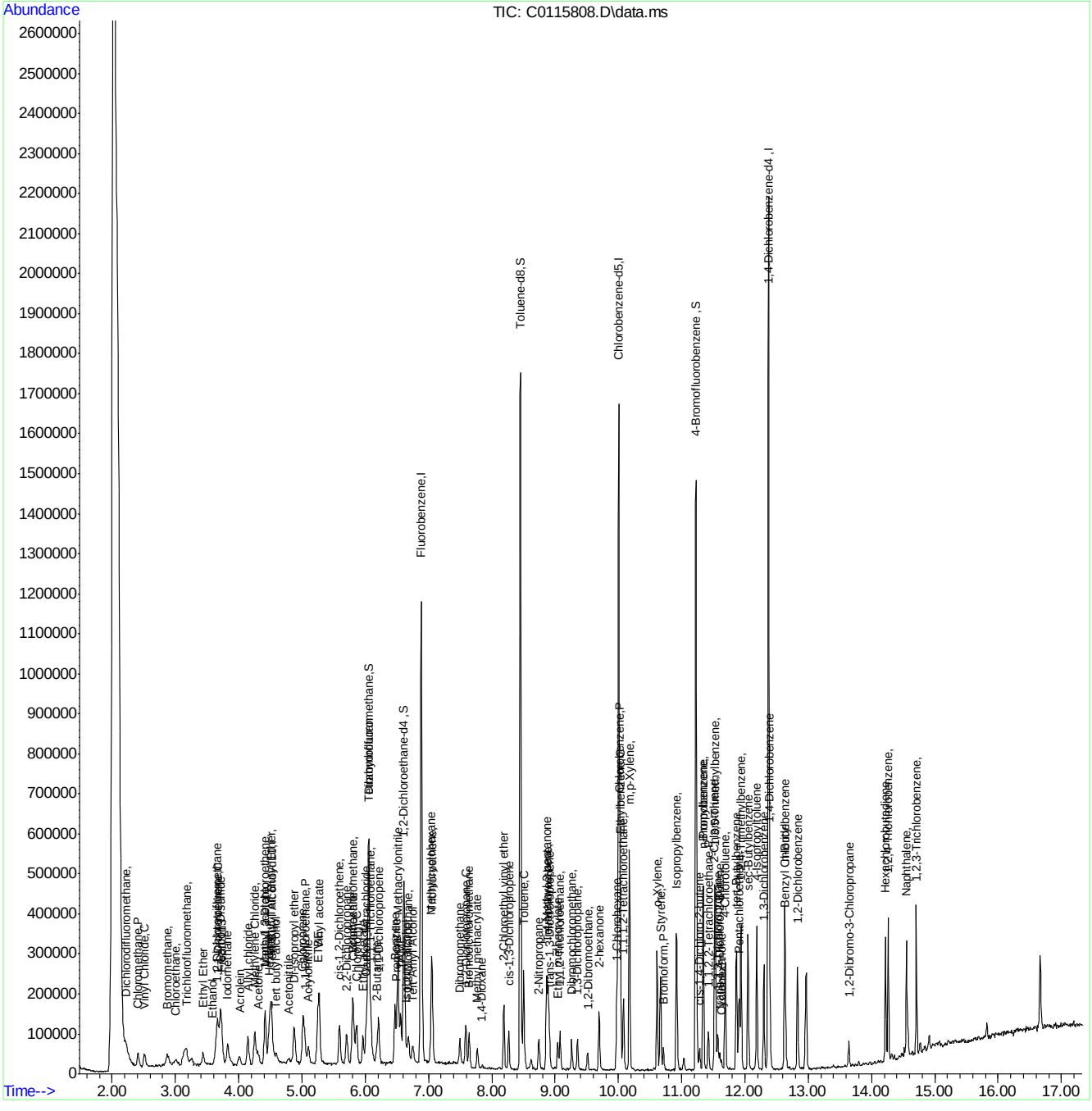
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115808.D
Acq On : 23 May 2016 9:20 am
Operator : ericp
Sample : IC4602-1 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 11:37:52 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:37:12 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

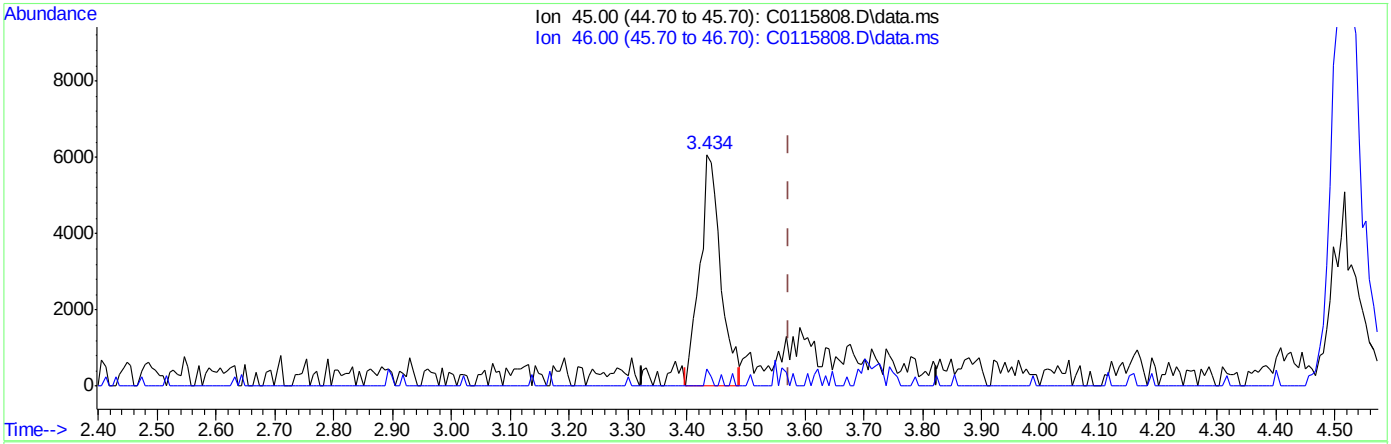
Sample Number:	VC4602-IC4602	**Method:**	SW846 8260B
Lab FileID:	C0115808.D	**Analyst approved:**	05/24/16 07:39 Eric Parrish
Injection Time:	05/23/16 09:20	**Supervisor approved:**	05/24/16 10:46 Juan Garcia

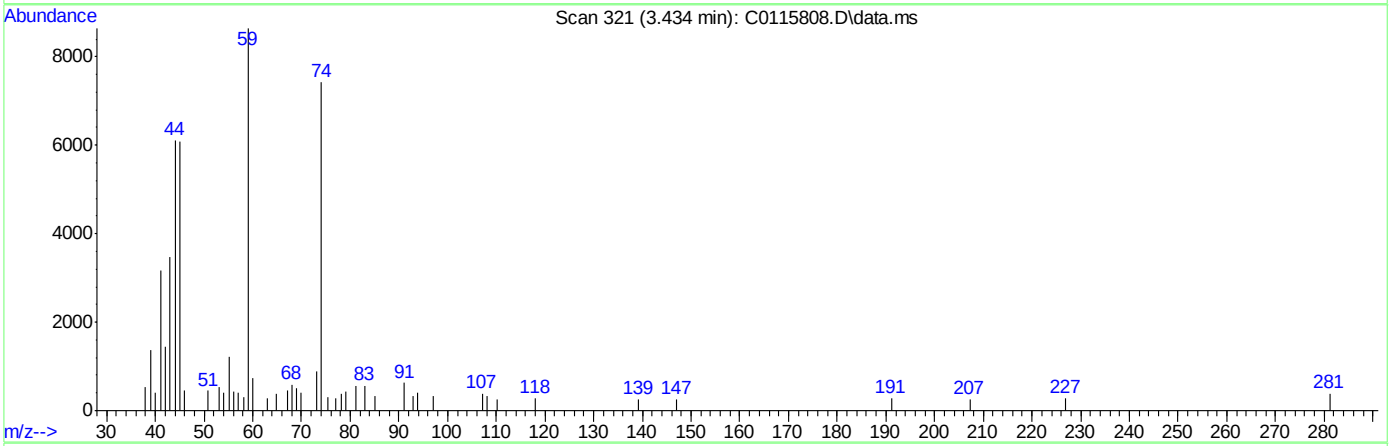
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.59	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115808.D
Acq On : 23 May 2016 9:20 am
Operator : ericp
Sample : IC4602-1 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 11:37:31 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:37:12 2016
Response via : Initial Calibration





TIC: C0115808.D\data.ms

(104) Ethanol

3.434min (-0.140) 492.55ug/Kg

response 14865

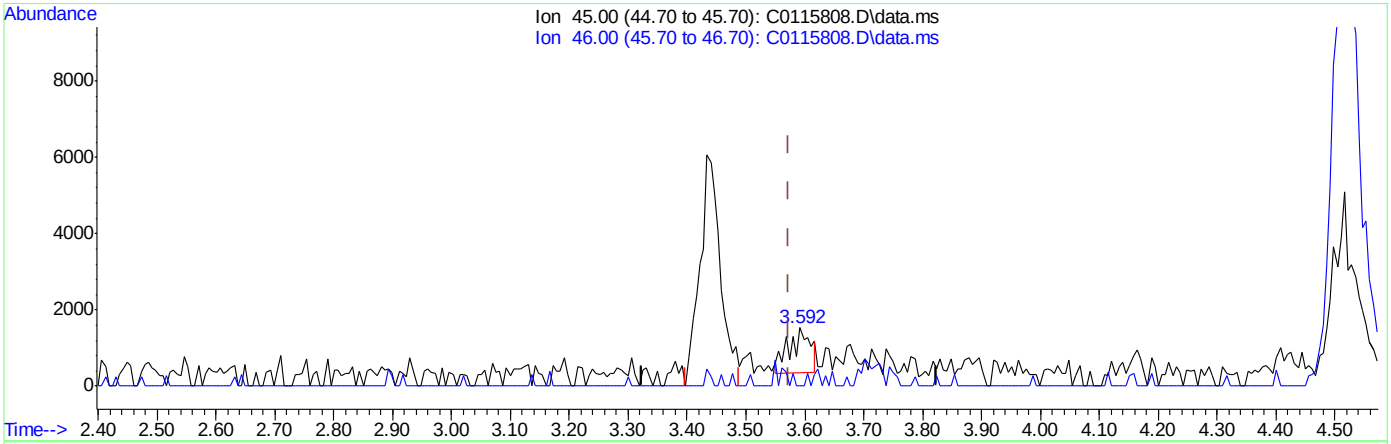
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	7.65
0.00	0.00	0.00
0.00	0.00	0.00

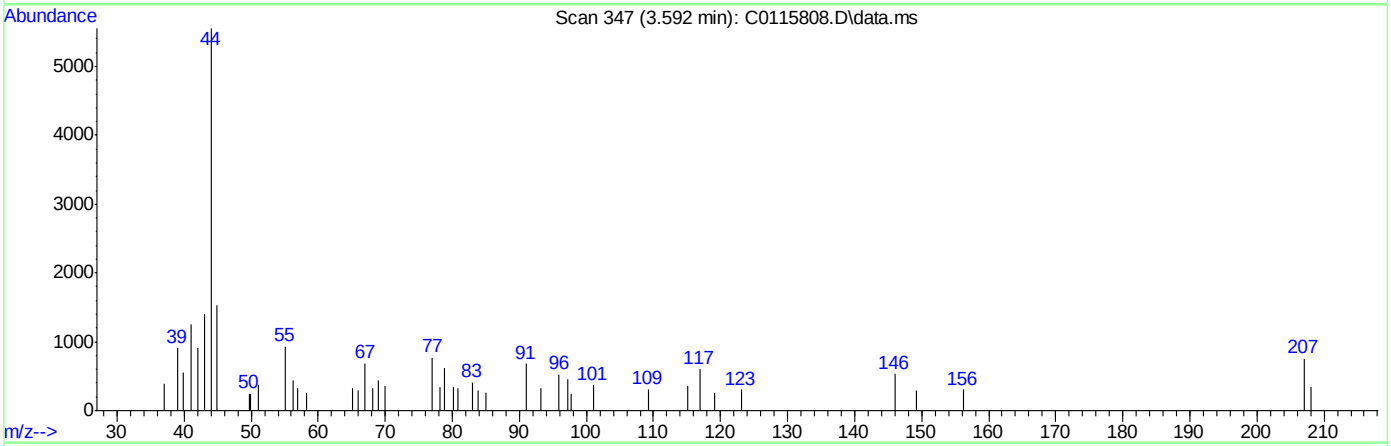
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115808.D
Acq On : 23 May 2016 9:20 am
Operator : ericp
Sample : IC4602-1 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 23 11:37:31 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:37:12 2016
Response via : Initial Calibration





TIC: C0115808.D\data.ms

(104) Ethanol

3.592min (+0.018) 97.32ug/Kg m

response 2937

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

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115809.D
Acq On : 23 May 2016 9:46 am
Operator : ericp
Sample : IC4602-2 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 11:36:54 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:36:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	1055352	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	780628	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	492470	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.511	65	145130	250.00	ug/Kg	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.050	113	373145	53.42	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.84%			
44) 1,2-Dichloroethane-d4	6.610	65	406676	53.47	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 106.94%			
55) Toluene-d8	8.447	98	1090027	49.56	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.12%			
77) 4-Bromofluorobenzene	11.227	174	365936	48.14	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 96.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	145292	10.62	ug/Kg	93
3) Chloromethane	2.406	50	101450	10.42	ug/Kg	96
4) Vinyl Chloride	2.503	62	91627	10.47	ug/Kg	91
5) Bromomethane	2.862	94	58647	10.34	ug/Kg	95
6) Chloroethane	3.002	64	45751	11.17	ug/Kg	87
7) Trichlorofluoromethane	3.160	101	161439	9.56	ug/Kg	95
8) Ethyl Ether	3.434	59	53376	11.57	ug/Kg	98
9) 1,2-Dichlorotrifluoroe...	3.641	67	85793	10.14	ug/Kg	92
10) 1,1-Dichloroethene	3.659	61	133446	10.25	ug/Kg	99
11) Freon 113	3.714	101	85840	9.64	ug/Kg	92
12) Carbon Disulfide	3.714	76	234741	9.90	ug/Kg	94
13) Iodomethane	3.824	142	171534	10.74	ug/Kg	93
14) Allyl chloride	4.140	41	107131	10.01	ug/Kg	93
15) Methylene Chloride	4.255	49	105101	11.68	ug/Kg	91
16) Acetone	4.298	43	95353	62.38	ug/Kg	99
17) Methyl acetate	4.414	43	157755	59.95	ug/Kg	93
18) trans-1,2-Dichloroethene	4.414	61	108694	10.02	ug/Kg	94
19) Hexane	4.481	56	49207	9.86	ug/Kg	94
20) Methyl Tert Butyl Ether	4.505	73	234637	11.46	ug/Kg	95
21) Acetonitrile	4.797	41	39420	121.40	ug/Kg	81
22) Di-isopropyl ether	4.876	45	183706	10.98	ug/Kg	99
23) Chloroprene	5.010	53	157888	10.10	ug/Kg	99
24) 1,1-Dichloroethane	5.040	63	134240	10.24	ug/Kg	98
25) Acrylonitrile	5.101	52	65707	58.73	ug/Kg	92
26) ETBE	5.247	59	235798	11.25	ug/Kg	99
27) Vinyl acetate	5.271	43	423883	53.18	ug/Kg	97
28) cis-1,2-Dichloroethene	5.594	96	98597	10.78	ug/Kg	93
29) 2,2-Dichloropropane	5.703	77	108805	10.29	ug/Kg	92
30) Bromochloromethane	5.801	128	45967	10.53	ug/Kg	95
31) Cyclohexane	5.807	84	130663	10.32	ug/Kg	93
32) Chloroform	5.862	83	173354	11.24	ug/Kg	98
33) Ethyl acetate	5.965	43	161066	53.16	ug/Kg	98
34) Tetrahydrofuran	6.038	42	11045	12.82	ug/Kg	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115809.D
Acq On : 23 May 2016 9:46 am
Operator : ericp
Sample : IC4602-2 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 11:36:54 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:36:37 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.020	117	181859	10.20	ug/Kg	96
37)	1,1,1-Trichloroethane	6.087	97	165800	9.91	ug/Kg	90
38)	2-Butanone	6.178	43	94947	54.34	ug/Kg	94
39)	1,1-Dichloropropene	6.208	75	112807	10.81	ug/Kg	95
40)	Propionitrile	6.500	54	62814	125.84	ug/Kg	92
41)	Methacrylonitrile	6.512	41	256969	119.62	ug/Kg	95
42)	Benzene	6.470	78	277415	10.84	ug/Kg	99
43)	TAME	6.555	73	215586	11.11	ug/Kg	95
45)	1,2-Dichloroethane	6.677	62	109200	10.69	ug/Kg	97
46)	Trichloroethene	7.054	95	80840	10.62	ug/Kg	97
47)	Methylcyclohexane	7.048	83	141882	10.05	ug/Kg	98
48)	Dibromomethane	7.492	93	43273	9.72	ug/Kg	91
49)	1,2-Dichloropropane	7.589	63	52240	8.85	ug/Kg	88
50)	Bromodichloromethane	7.638	83	101046	9.44	ug/Kg	97
51)	Methyl methacrylate	7.772	41	32971	9.34	ug/Kg	95
52)	2-Chloroethyl vinyl ether	8.185	63	106799	48.26	ug/Kg	95
53)	cis-1,3-Dichloropropene	8.271	75	91728	9.78	ug/Kg	93
56)	Toluene	8.502	91	289126	10.67	ug/Kg	99
57)	2-Nitropropane	8.745	41	81018	52.33	ug/Kg	96
58)	4-Methyl-2-pentanone	8.867	43	244179	53.24	ug/Kg	97
59)	trans-1,3-Dichloropropene	8.915	75	61635	9.71	ug/Kg	82
60)	Tetrachloroethene	8.891	166	89652	10.20	ug/Kg	94
61)	Ethyl methacrylate	9.037	69	59416	10.25	ug/Kg	96
62)	1,1,2-Trichloroethane	9.074	83	40330	10.68	ug/Kg	86
63)	Dibromochloromethane	9.262	129	71871	10.11	ug/Kg	95
64)	1,3-Dichloropropane	9.353	76	73381	10.17	ug/Kg	96
65)	1,2-Dibromoethane	9.512	107	50610	10.42	ug/Kg	99
66)	2-hexanone	9.694	43	139122	55.91	ug/Kg	97
67)	1-Chlorohexane	9.974	91	90044	10.10	ug/Kg	91
68)	Ethylbenzene	10.029	91	310579	10.73	ug/Kg	96
69)	Chlorobenzene	10.023	112	162074	10.37	ug/Kg	98
70)	1,1,1,2-Tetrachloroethane	10.077	131	93846	10.60	ug/Kg	91
71)	m,p-Xylene	10.175	91	529217	19.68	ug/Kg	96
72)	o-Xylene	10.613	91	321819	10.97	ug/Kg	97
73)	Styrene	10.661	104	182832	10.51	ug/Kg	98
74)	Bromoform	10.710	173	41849	10.08	ug/Kg	97
75)	Isopropylbenzene	10.917	105	393357	9.14	ug/Kg	100
78)	cis-1,4-Dichloro-2-butene	11.282	53	15265	10.35	ug/Kg	86
79)	n-Propylbenzene	11.337	91	391018	10.77	ug/Kg	100
80)	Bromobenzene	11.343	156	84255	10.36	ug/Kg	97
81)	1,1,2,2-Tetrachloroethane	11.422	83	72343	10.67	ug/Kg	100
82)	1,3,5-Trimethylbenzene	11.531	105	336607	10.75	ug/Kg	99
83)	2-Chlorotoluene	11.519	91	303129	10.79	ug/Kg	97
84)	trans-1,4-Dichloro-2-B...	11.598	53	14578	10.29	ug/Kg	80
85)	1,2,3-Trichloropropane	11.568	110	23260	10.50	ug/Kg	87
86)	Cyclohexanone	11.623	55	16163	50.74	ug/Kg	93
87)	4-Chlorotoluene	11.683	91	242650	10.40	ug/Kg	100
88)	tert-Butylbenzene	11.866	91	200886	10.22	ug/Kg	96
89)	1,2,4-Trimethylbenzene	11.939	105	327567	10.80	ug/Kg	99
90)	Pentachloroethane	11.909	167	63301	10.41	ug/Kg	94

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115809.D
Acq On : 23 May 2016 9:46 am
Operator : ericp
Sample : IC4602-2 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 11:36:54 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:36:37 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.049	105	397398	10.54	ug/Kg	95
92) 4-Isopropyltoluene	12.188	119	359507	10.49	ug/Kg	100
93) 1,3-Dichlorobenzene	12.298	146	169324	10.52	ug/Kg	98
94) 1,4-Dichlorobenzene	12.389	146	148964	10.41	ug/Kg	95
95) n-Butylbenzene	12.626	92	185321	10.63	ug/Kg	94
96) Benzyl Chloride	12.639	126	33119	10.57	ug/Kg#	88
97) 1,2-Dichlorobenzene	12.827	146	187085	10.94	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.642	75	21816	10.89	ug/Kg	85
99) Hexachlorobutadiene	14.220	225	85695	9.63	ug/Kg	93
100) 1,2,4-Trichlorobenzene	14.263	180	155176	10.78	ug/Kg	99
101) Naphthalene	14.549	128	336595	11.08	ug/Kg	97
102) 1,2,3-Trichlorobenzene	14.707	180	151739	10.66	ug/Kg	95
104) Ethanol	3.580	45	6002	201.53	ug/Kg	75
105) Acrolein	4.006	56	51364	51.41	ug/Kg	81
106) Tert butyl alcohol	4.596	59	68720	93.40	ug/Kg	91
107) Isobutyl alcohol	6.640	42	21496	192.43	ug/Kg#	83
108) Tert Amyl Alcohol	6.750	59	58807	99.54	ug/Kg	93
109) 1,4-Dioxane	7.839	88	12437	156.55	ug/Kg	94

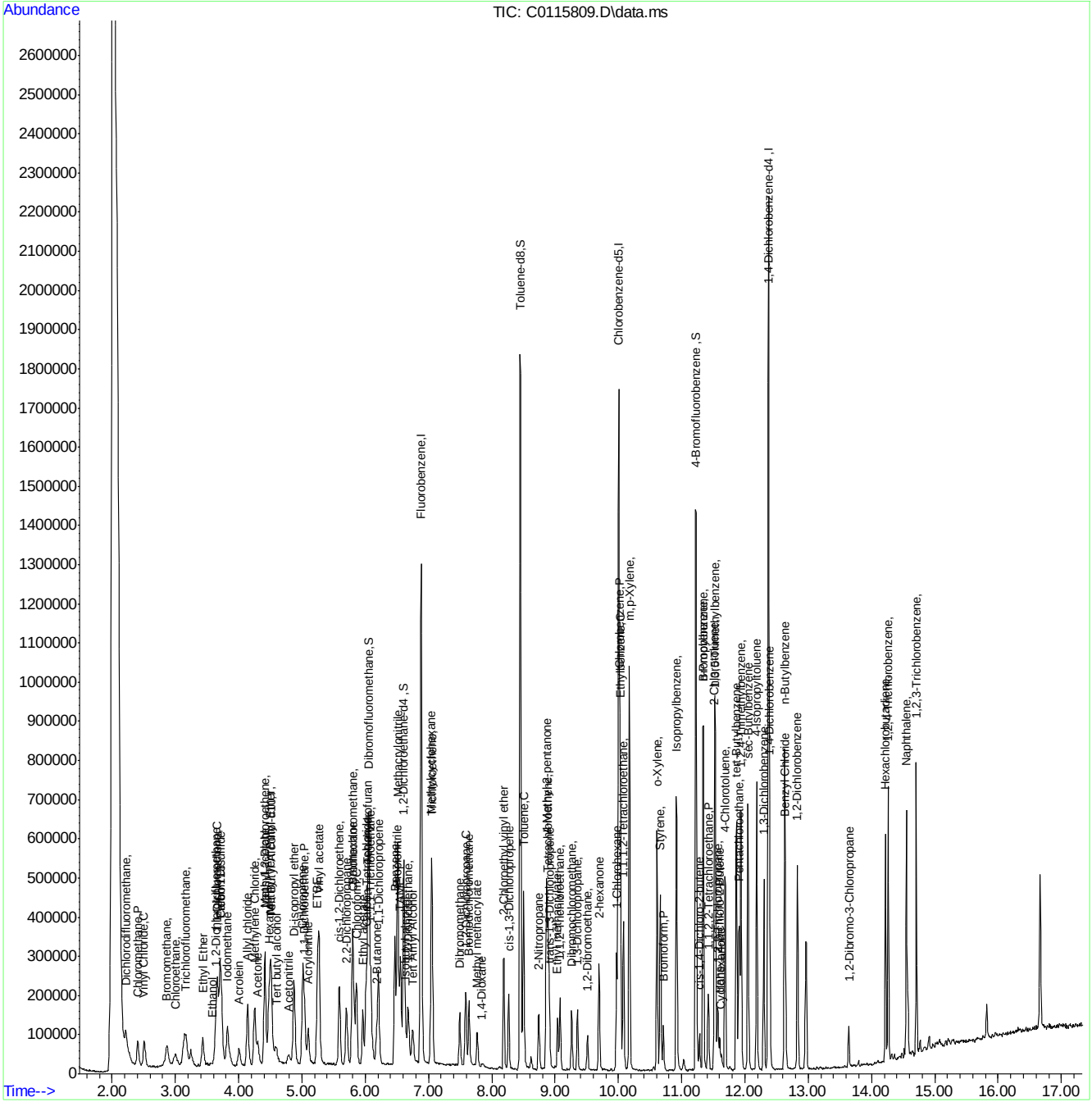
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115809.D
Acq On : 23 May 2016 9:46 am
Operator : ericp
Sample : IC4602-2 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 23 11:36:54 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:36:37 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/24/16 10:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115810.D
Acq On : 23 May 2016 10:11 am
Operator : ericp
Sample : IC4602-3 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 11:36:29 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:35:32 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.883	96	1083143	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	831478	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	519184	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.511	65	125274	250.00	ug/Kg	-0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	364496	50.84	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.68%			
44) 1,2-Dichloroethane-d4	6.610	65	388008	49.71	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 99.42%			
55) Toluene-d8	8.447	98	1177389	50.26	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 100.52%			
77) 4-Bromofluorobenzene	11.227	174	392505	48.98	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	296795	21.14	ug/Kg	95
3) Chloromethane	2.406	50	202603	20.90	ug/Kg	96
4) Vinyl Chloride	2.503	62	189426	21.08	ug/Kg	99
5) Bromomethane	2.868	94	117945	21.20	ug/Kg	94
6) Chloroethane	2.996	64	84276	20.95	ug/Kg	91
7) Trichlorofluoromethane	3.166	101	340147	20.43	ug/Kg	99
8) Ethyl Ether	3.434	59	98344	20.77	ug/Kg	97
9) 1,2-Dichlorotrifluoroe...	3.647	67	172699	20.63	ug/Kg	90
10) 1,1-Dichloroethene	3.665	61	259690	20.10	ug/Kg	98
11) Freon 113	3.714	101	178273	20.30	ug/Kg	94
12) Carbon Disulfide	3.708	76	473222	20.22	ug/Kg	98
13) Iodomethane	3.823	142	345471	21.07	ug/Kg	92
14) Allyl chloride	4.146	41	216872	20.47	ug/Kg	94
15) Methylene Chloride	4.255	49	184195	20.65	ug/Kg	95
16) Acetone	4.298	43	165182	107.08	ug/Kg	97
17) Methyl acetate	4.413	43	275646	104.41	ug/Kg	97
18) trans-1,2-Dichloroethene	4.413	61	213504	19.87	ug/Kg	98
19) Hexane	4.480	56	95195	19.11	ug/Kg	96
20) Methyl Tert Butyl Ether	4.505	73	437979	20.84	ug/Kg	92
21) Acetonitrile	4.797	41	67140	205.15	ug/Kg	82
22) Di-isopropyl ether	4.876	45	367034	21.39	ug/Kg	99
23) Chloroprene	5.016	53	317183	20.43	ug/Kg	94
24) 1,1-Dichloroethane	5.040	63	266823	20.47	ug/Kg	96
25) Acrylonitrile	5.095	52	117975	104.44	ug/Kg	97
26) ETBE	5.247	59	447218	20.78	ug/Kg	98
27) Vinyl acetate	5.271	43	851045	107.03	ug/Kg	97
28) cis-1,2-Dichloroethene	5.594	96	195349	20.80	ug/Kg	97
29) 2,2-Dichloropropane	5.703	77	215673	20.70	ug/Kg	91
30) Bromochloromethane	5.801	128	94178	21.01	ug/Kg	94
31) Cyclohexane	5.807	84	250923	19.90	ug/Kg	95
32) Chloroform	5.861	83	335356	21.18	ug/Kg	99
33) Ethyl acetate	5.965	43	310176	99.71	ug/Kg	98
34) Tetrahydrofuran	6.038	42	18759	21.40	ug/Kg	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115810.D
Acq On : 23 May 2016 10:11 am
Operator : ericp
Sample : IC4602-3 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 11:36:29 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:35:32 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.020	117	325686	18.22	ug/Kg	97
37)	1,1,1-Trichloroethane	6.086	97	325498	19.63	ug/Kg	96
38)	2-Butanone	6.178	43	180125	100.44	ug/Kg	99
39)	1,1-Dichloropropene	6.208	75	218030	20.35	ug/Kg	95
40)	Propionitrile	6.494	54	103350	204.58	ug/Kg	85
41)	Methacrylonitrile	6.512	41	457791	210.65	ug/Kg	97
42)	Benzene	6.470	78	549067	20.90	ug/Kg	97
43)	TAME	6.555	73	415243	20.85	ug/Kg	98
45)	1,2-Dichloroethane	6.683	62	213582	20.38	ug/Kg	96
46)	Trichloroethene	7.054	95	163322	20.90	ug/Kg	95
47)	Methylcyclohexane	7.048	83	268793	19.17	ug/Kg	98
48)	Dibromomethane	7.492	93	101511	22.22	ug/Kg	96
49)	1,2-Dichloropropane	7.589	63	134889	22.26	ug/Kg	85
50)	Bromodichloromethane	7.644	83	236425	21.51	ug/Kg	99
51)	Methyl methacrylate	7.766	41	70258	19.39	ug/Kg	90
52)	2-Chloroethyl vinyl ether	8.191	63	233272	102.71	ug/Kg	95
53)	cis-1,3-Dichloropropene	8.270	75	197867	20.54	ug/Kg	92
56)	Toluene	8.502	91	599926	20.78	ug/Kg	97
57)	2-Nitropropane	8.745	41	160888	97.56	ug/Kg	94
58)	4-Methyl-2-pentanone	8.867	43	471702	99.77	ug/Kg	98
59)	trans-1,3-Dichloropropene	8.915	75	131683	19.48	ug/Kg#	83
60)	Tetrachloroethene	8.891	166	193516	20.68	ug/Kg	96
61)	Ethyl methacrylate	9.037	69	131530	21.29	ug/Kg	97
62)	1,1,2-Trichloroethane	9.073	83	81349	20.23	ug/Kg	95
63)	Dibromochloromethane	9.262	129	152170	20.10	ug/Kg	92
64)	1,3-Dichloropropane	9.353	76	156429	20.36	ug/Kg	98
65)	1,2-Dibromoethane	9.511	107	103306	19.97	ug/Kg	95
66)	2-hexanone	9.694	43	267597	100.96	ug/Kg	94
67)	1-Chlorohexane	9.974	91	193347	20.36	ug/Kg	92
68)	Ethylbenzene	10.029	91	653972	21.21	ug/Kg	100
69)	Chlorobenzene	10.023	112	346220	20.80	ug/Kg	95
70)	1,1,1,2-Tetrachloroethane	10.077	131	195472	20.73	ug/Kg	96
71)	m,p-Xylene	10.175	91	1060192	38.61	ug/Kg	98
72)	o-Xylene	10.613	91	662343	21.19	ug/Kg	96
73)	Styrene	10.661	104	387512	20.92	ug/Kg	96
74)	Bromoform	10.710	173	91154	20.62	ug/Kg	93
75)	Isopropylbenzene	10.917	105	822102	18.71	ug/Kg	98
78)	cis-1,4-Dichloro-2-butene	11.282	53	30263	19.46	ug/Kg	89
79)	n-Propylbenzene	11.337	91	795178	20.77	ug/Kg	98
80)	Bromobenzene	11.343	156	174405	20.35	ug/Kg	92
81)	1,1,2,2-Tetrachloroethane	11.422	83	145929	20.42	ug/Kg	100
82)	1,3,5-Trimethylbenzene	11.531	105	679093	20.58	ug/Kg	97
83)	2-Chlorotoluene	11.519	91	606659	20.48	ug/Kg	96
84)	trans-1,4-Dichloro-2-B...	11.598	53	30501	20.43	ug/Kg	91
85)	1,2,3-Trichloropropane	11.568	110	47376	20.29	ug/Kg	90
86)	Cyclohexanone	11.629	55	29261	88.71	ug/Kg	97
87)	4-Chlorotoluene	11.683	91	505245	20.54	ug/Kg	98
88)	tert-Butylbenzene	11.866	91	419091	20.23	ug/Kg	93
89)	1,2,4-Trimethylbenzene	11.933	105	655670	20.51	ug/Kg	98
90)	Pentachloroethane	11.908	167	128331	20.01	ug/Kg	94

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115810.D
Acq On : 23 May 2016 10:11 am
Operator : ericp
Sample : IC4602-3 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 11:36:29 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:35:32 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.048	105	812212	20.43	ug/Kg	99
92)	4-Isopropyltoluene	12.188	119	743548	20.58	ug/Kg	99
93)	1,3-Dichlorobenzene	12.298	146	347449	20.48	ug/Kg	96
94)	1,4-Dichlorobenzene	12.389	146	307108	20.37	ug/Kg	95
95)	n-Butylbenzene	12.626	92	374781	20.39	ug/Kg	96
96)	Benzyl Chloride	12.638	126	66432	20.12	ug/Kg#	90
97)	1,2-Dichlorobenzene	12.833	146	366266	20.31	ug/Kg	97
98)	1,2-Dibromo-3-Chloropr...	13.642	75	41649	19.72	ug/Kg	83
99)	Hexachlorobutadiene	14.220	225	183693	19.59	ug/Kg	96
100)	1,2,4-Trichlorobenzene	14.263	180	310858	20.48	ug/Kg	99
101)	Naphthalene	14.549	128	673349	21.02	ug/Kg	98
102)	1,2,3-Trichlorobenzene	14.707	180	310470	20.69	ug/Kg	98
104)	Ethanol	3.586	45	10208m	395.65	ug/Kg	
105)	Acrolein	4.012	56	87750	101.61	ug/Kg	99
106)	Tert butyl alcohol	4.584	59	126652	199.43	ug/Kg	93
107)	Isobutyl alcohol	6.646	42	36240	375.83	ug/Kg#	79
108)	Tert Amyl Alcohol	6.750	59	103331	202.50	ug/Kg	93
109)	1,4-Dioxane	7.845	88	25221	353.55	ug/Kg	89

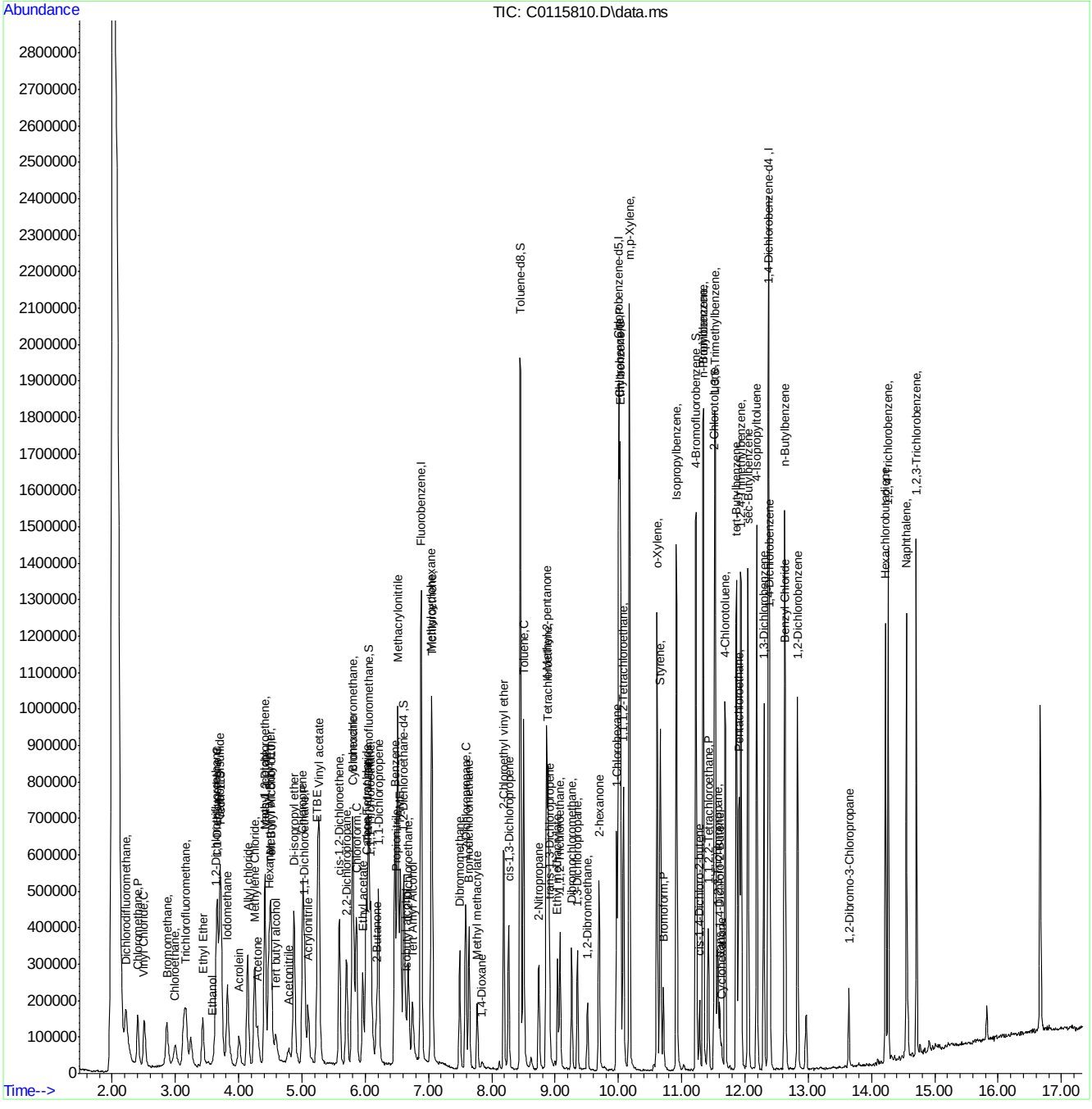
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115810.D
Acq On : 23 May 2016 10:11 am
Operator : ericp
Sample : IC4602-3 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 11:36:29 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:35:32 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

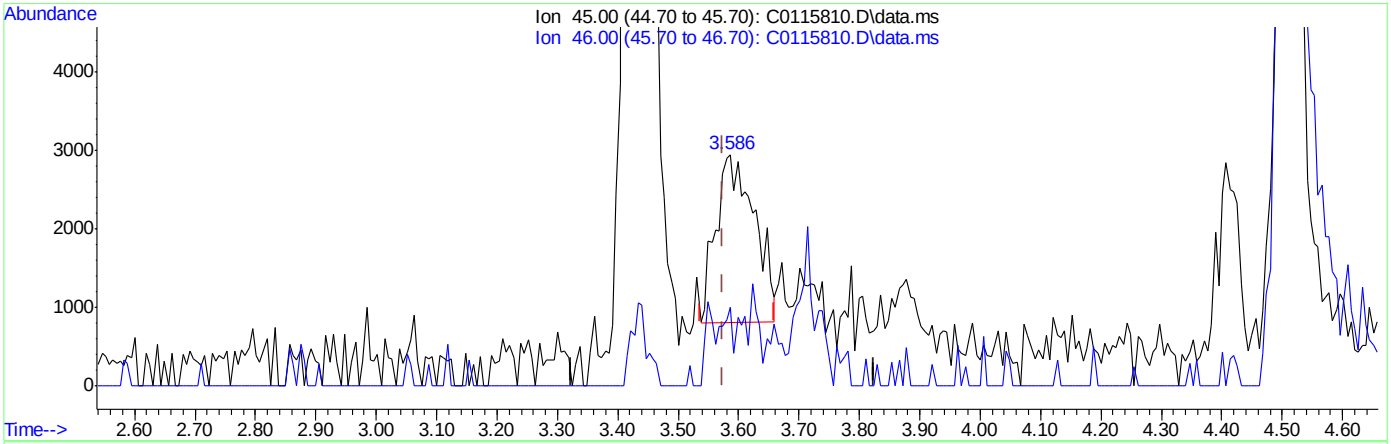
Sample Number:	VC4602-IC4602	**Method:**	SW846 8260B
Lab FileID:	C0115810.D	**Analyst approved:**	05/24/16 07:39 Eric Parrish
Injection Time:	05/23/16 10:11	**Supervisor approved:**	05/24/16 10:46 Juan Garcia

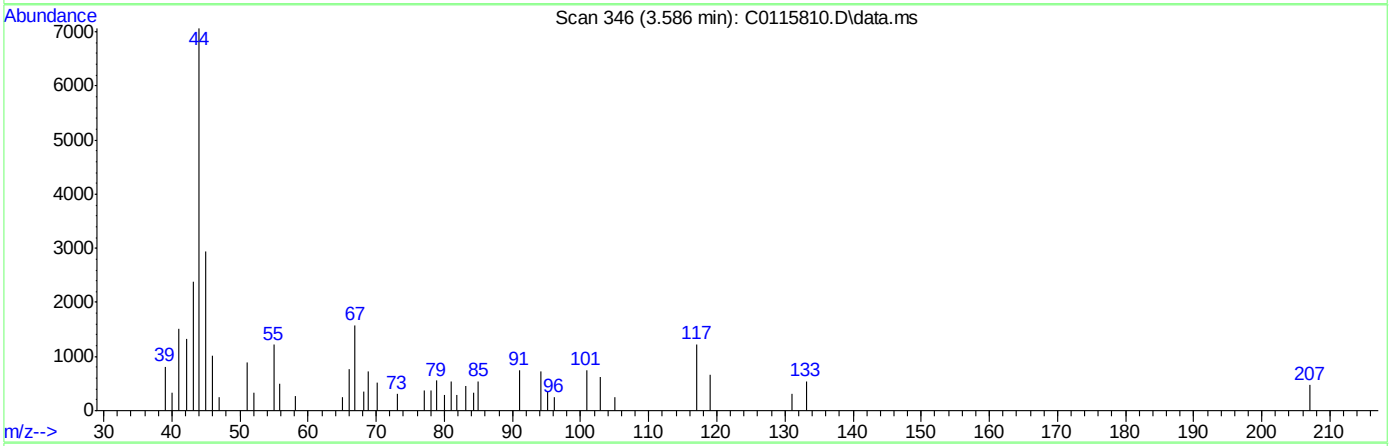
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.59	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115810.D
Acq On : 23 May 2016 10:11 am
Operator : ericp
Sample : IC4602-3 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 11:35:45 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:35:32 2016
Response via : Initial Calibration





TIC: C0115810.D\data.ms

(104) Ethanol

3.586min (+0.012) 366.39ug/Kg

response 9453

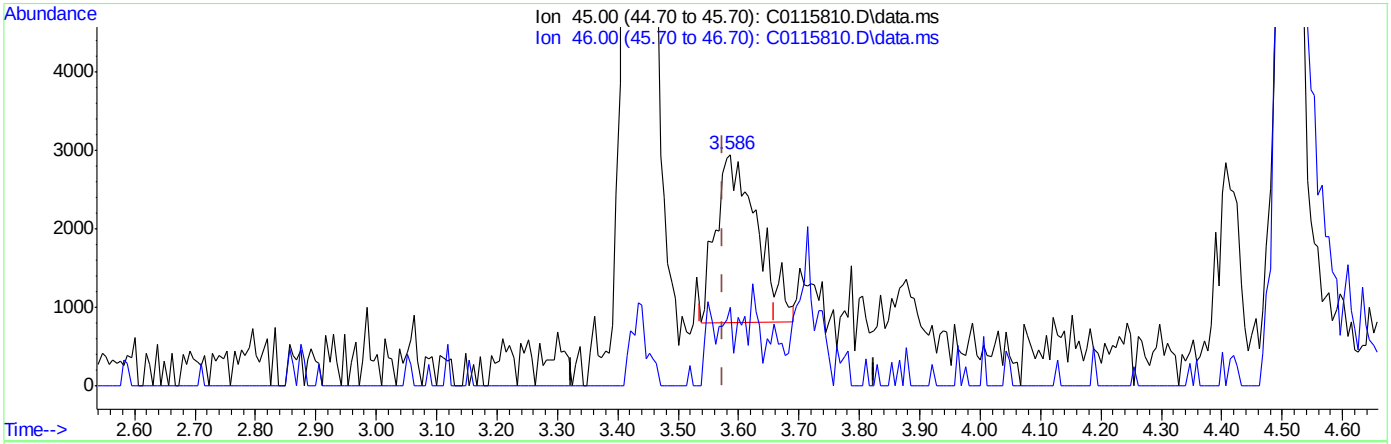
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	47.32
0.00	0.00	0.00
0.00	0.00	0.00

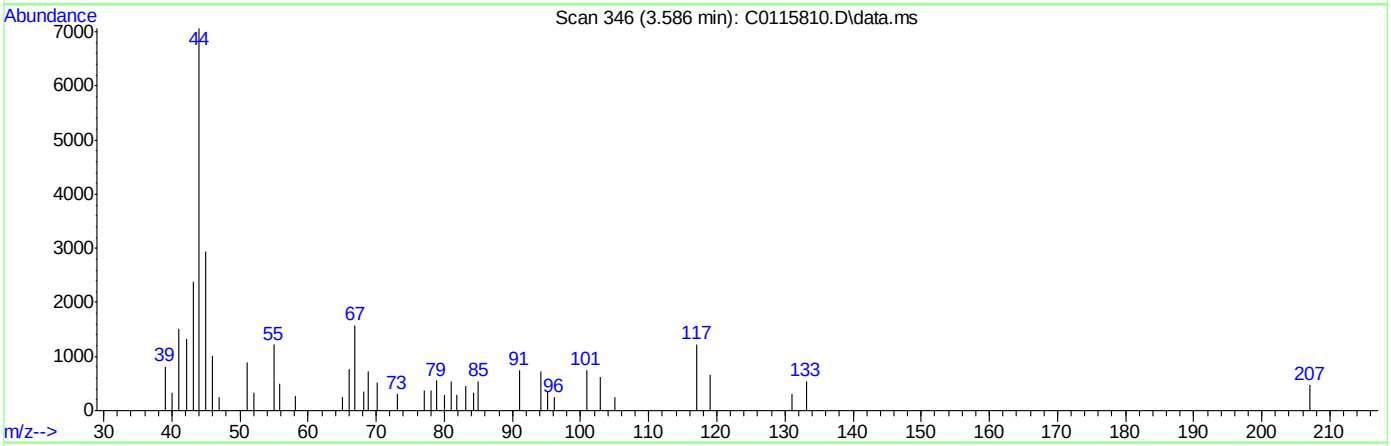
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115810.D
Acq On : 23 May 2016 10:11 am
Operator : ericp
Sample : IC4602-3 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 23 11:35:45 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:35:32 2016
Response via : Initial Calibration





TIC: C0115810.D\data.ms

(104) Ethanol

3.586min (+0.012) 395.65ug/Kg m

response 10208

Ion	Exp%	Act%
45.00	100	100
46.00	30.00	34.15
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/24/16 10:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115811.D
Acq On : 23 May 2016 10:37 am
Operator : ericp
Sample : ICC4602-4 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 11:35:23 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:29:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.883	96	1138966	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	811868	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	464555	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.523	65	104725	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	359359	47.67	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.34%			
44) 1,2-Dichloroethane-d4	6.610	65	390207	47.57	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 95.14%			
55) Toluene-d8	8.453	98	1203758	52.62	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 105.24%			
77) 4-Bromofluorobenzene	11.227	174	374605	52.25	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 104.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.223	85	705606	47.80	ug/Kg	94
3) Chloromethane	2.400	50	458572	49.11	ug/Kg	99
4) Vinyl Chloride	2.509	62	439902	46.53	ug/Kg	97
5) Bromomethane	2.868	94	250632	48.45	ug/Kg	92
6) Chloroethane	3.002	64	178870	48.24	ug/Kg	98
7) Trichlorofluoromethane	3.154	101	774765	49.67	ug/Kg	100
8) Ethyl Ether	3.434	59	229987	46.20	ug/Kg	93
9) 1,2-Dichlorotrifluoroe...	3.647	67	389045	49.25	ug/Kg	99
10) 1,1-Dichloroethene	3.659	61	605047	49.69	ug/Kg	93
11) Freon 113	3.708	101	408123	49.41	ug/Kg	96
12) Carbon Disulfide	3.708	76	1082433	49.67	ug/Kg	96
13) Iodomethane	3.817	142	815321	47.29	ug/Kg	93
14) Allyl chloride	4.140	41	494346	49.55	ug/Kg	92
15) Methylene Chloride	4.249	49	402020	48.08	ug/Kg	97
16) Acetone	4.304	43	365620	237.07	ug/Kg	99
17) Methyl acetate	4.413	43	621548	241.63	ug/Kg	96
18) trans-1,2-Dichloroethene	4.413	61	502491	49.94	ug/Kg	97
19) Hexane	4.474	56	239078	50.61	ug/Kg	96
20) Methyl Tert Butyl Ether	4.511	73	1000057	45.25	ug/Kg	97
21) Acetonitrile	4.791	41	155846	482.07	ug/Kg	90
22) Di-isopropyl ether	4.876	45	856746	47.49	ug/Kg	98
23) Chloroprene	5.010	53	731580	49.49	ug/Kg	96
24) 1,1-Dichloroethane	5.046	63	616469	49.41	ug/Kg	99
25) Acrylonitrile	5.101	52	274465	242.79	ug/Kg	94
26) ETBE	5.247	59	1039300	45.92	ug/Kg	97
27) Vinyl acetate	5.271	43	1875352	241.36	ug/Kg	96
28) cis-1,2-Dichloroethene	5.588	96	466531	47.23	ug/Kg	99
29) 2,2-Dichloropropane	5.703	77	476209	49.01	ug/Kg	91
30) Bromochloromethane	5.801	128	220499	46.79	ug/Kg	94
31) Cyclohexane	5.807	84	596068	49.75	ug/Kg	97
32) Chloroform	5.861	83	753551	45.26	ug/Kg	97
33) Ethyl acetate	5.959	43	732455	223.88	ug/Kg	96
34) Tetrahydrofuran	6.038	42	42523	47.37	ug/Kg	82

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115811.D
Acq On : 23 May 2016 10:37 am
Operator : ericp
Sample : ICC4602-4 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 11:35:23 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:29:21 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.013	117	866790	51.16	ug/Kg	99
37)	1,1,1-Trichloroethane	6.086	97	779756	50.18	ug/Kg	94
38)	2-Butanone	6.178	43	408831	216.79	ug/Kg	93
39)	1,1-Dichloropropene	6.208	75	542586	48.16	ug/Kg	96
40)	Propionitrile	6.500	54	238513	478.61	ug/Kg	90
41)	Methacrylonitrile	6.518	41	1053195	481.69	ug/Kg	96
42)	Benzene	6.470	78	1300083	47.06	ug/Kg	97
43)	TAME	6.555	73	975110	46.53	ug/Kg	96
45)	1,2-Dichloroethane	6.683	62	516794	46.89	ug/Kg	97
46)	Trichloroethene	7.054	95	386596	47.05	ug/Kg	93
47)	Methylcyclohexane	7.048	83	661722	50.58	ug/Kg	96
48)	Dibromomethane	7.492	93	239809	49.91	ug/Kg	89
49)	1,2-Dichloropropane	7.589	63	327654	51.42	ug/Kg	86
50)	Bromodichloromethane	7.644	83	558004	48.28	ug/Kg	99
51)	Methyl methacrylate	7.772	41	178557	46.87	ug/Kg	93
52)	2-Chloroethyl vinyl ether	8.185	63	521977	218.56	ug/Kg	98
53)	cis-1,3-Dichloropropene	8.264	75	480600	47.45	ug/Kg	95
56)	Toluene	8.502	91	1425897	50.57	ug/Kg	94
57)	2-Nitropropane	8.745	41	384776	238.96	ug/Kg	93
58)	4-Methyl-2-pentanone	8.867	43	1024425	248.23	ug/Kg	97
59)	trans-1,3-Dichloropropene	8.915	75	316295	47.91	ug/Kg	92
60)	Tetrachloroethene	8.891	166	464843	50.87	ug/Kg	95
61)	Ethyl methacrylate	9.037	69	298300	49.42	ug/Kg	96
62)	1,1,2-Trichloroethane	9.080	83	192468	49.02	ug/Kg	93
63)	Dibromochloromethane	9.262	129	382102	51.70	ug/Kg	95
64)	1,3-Dichloropropane	9.353	76	376667	50.22	ug/Kg	95
65)	1,2-Dibromoethane	9.511	107	243340	48.17	ug/Kg	87
66)	2-hexanone	9.694	43	583015	225.27	ug/Kg	95
67)	1-Chlorohexane	9.974	91	476694	51.42	ug/Kg	92
68)	Ethylbenzene	10.029	91	1505709	50.00	ug/Kg	95
69)	Chlorobenzene	10.023	112	809600	49.80	ug/Kg	96
70)	1,1,1,2-Tetrachloroethane	10.077	131	493079	53.54	ug/Kg	97
71)	m,p-Xylene	10.175	91	2368077	103.58	ug/Kg	92
72)	o-Xylene	10.613	91	1540304	50.48	ug/Kg	95
73)	Styrene	10.661	104	882013	48.77	ug/Kg	98
74)	Bromoform	10.710	173	211497	48.99	ug/Kg	90
75)	Isopropylbenzene	10.917	105	1895247	51.81	ug/Kg	96
78)	cis-1,4-Dichloro-2-butene	11.282	53	60341	43.35	ug/Kg	87
79)	n-Propylbenzene	11.337	91	1802061	52.61	ug/Kg	95
80)	Bromobenzene	11.343	156	390353	50.90	ug/Kg	96
81)	1,1,2,2-Tetrachloroethane	11.422	83	329976	51.59	ug/Kg	98
82)	1,3,5-Trimethylbenzene	11.531	105	1577639	53.43	ug/Kg	96
83)	2-Chlorotoluene	11.519	91	1386122	52.28	ug/Kg	96
84)	trans-1,4-Dichloro-2-B...	11.598	53	59933	44.86	ug/Kg	77
85)	1,2,3-Trichloropropane	11.568	110	101036	48.35	ug/Kg	97
86)	Cyclohexanone	11.629	55	69474	255.79	ug/Kg	82
87)	4-Chlorotoluene	11.683	91	1100179	49.99	ug/Kg	98
88)	tert-Butylbenzene	11.866	91	1077166	58.12	ug/Kg	91
89)	1,2,4-Trimethylbenzene	11.933	105	1502905	52.53	ug/Kg	95
90)	Pentachloroethane	11.908	167	334074	58.23	ug/Kg	94

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115811.D
Acq On : 23 May 2016 10:37 am
Operator : ericp
Sample : ICC4602-4 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 11:35:23 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:29:21 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.048	105	1951966	54.88	ug/Kg	92
92)	4-Isopropyltoluene	12.188	119	1754831	54.29	ug/Kg	97
93)	1,3-Dichlorobenzene	12.298	146	763862	50.32	ug/Kg	96
94)	1,4-Dichlorobenzene	12.389	146	684757	50.75	ug/Kg	95
95)	n-Butylbenzene	12.626	92	865067	52.59	ug/Kg	96
96)	Benzyl Chloride	12.638	126	140095	47.41	ug/Kg#	84
97)	1,2-Dichlorobenzene	12.827	146	824192	51.07	ug/Kg	98
98)	1,2-Dibromo-3-Chloropr...	13.642	75	92102	48.74	ug/Kg	85
99)	Hexachlorobutadiene	14.220	225	450321	53.67	ug/Kg	95
100)	1,2,4-Trichlorobenzene	14.263	180	707243	52.07	ug/Kg	97
101)	Naphthalene	14.549	128	1424176	49.68	ug/Kg	97
102)	1,2,3-Trichlorobenzene	14.707	180	693739	51.66	ug/Kg	97
104)	Ethanol	3.574	45	22193m	1059.65	ug/Kg	
105)	Acrolein	4.006	56	204478	283.23	ug/Kg	99
106)	Tert butyl alcohol	4.590	59	286370	537.92	ug/Kg	95
107)	Isobutyl alcohol	6.646	42	89112	1105.47	ug/Kg	91
108)	Tert Amyl Alcohol	6.750	59	233805	547.83	ug/Kg	95
109)	1,4-Dioxane	7.845	88	64654	1183.80	ug/Kg	89

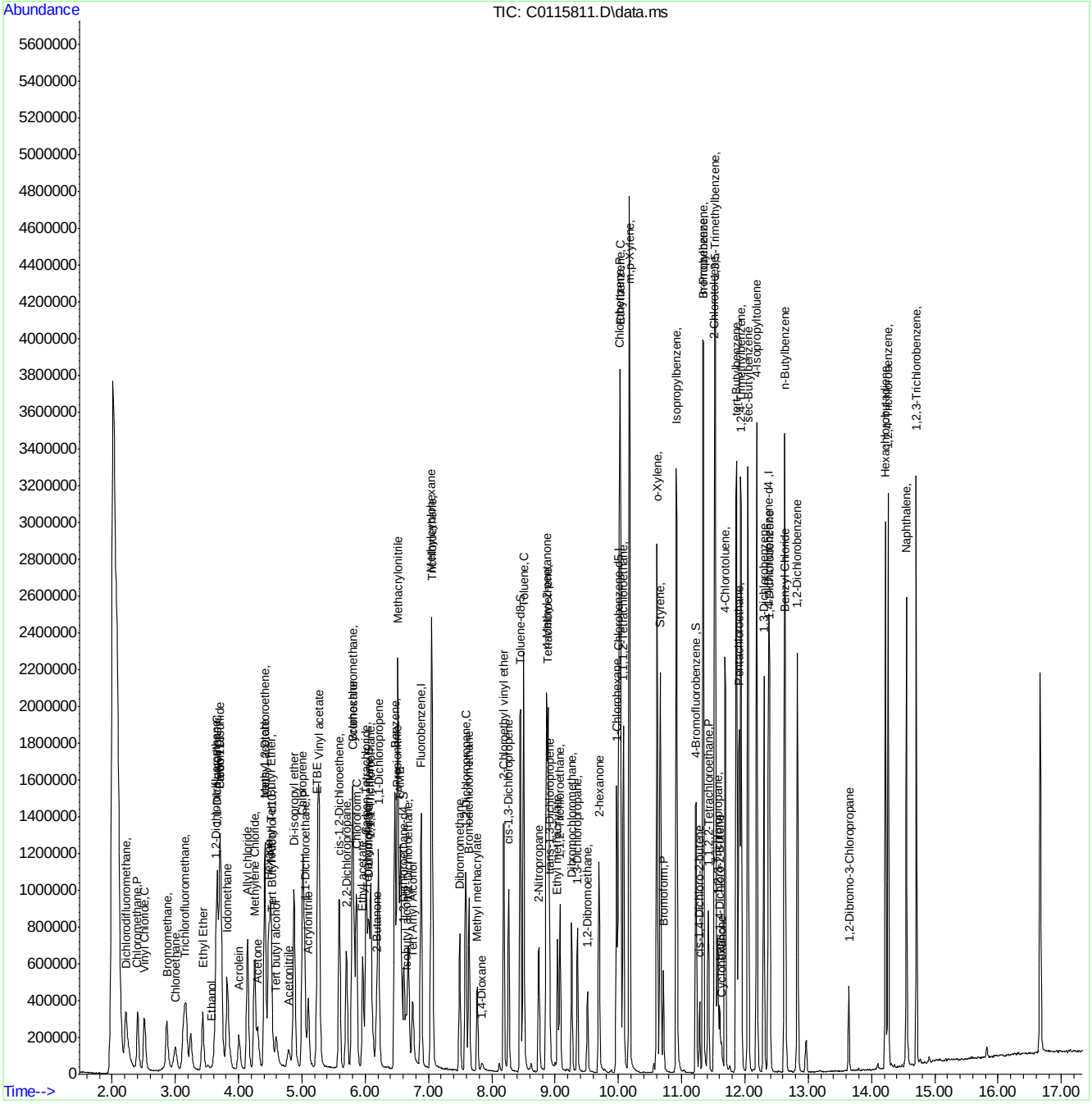
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115811.D
Acq On : 23 May 2016 10:37 am
Operator : ericp
Sample : ICC4602-4 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 11:35:23 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:29:21 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

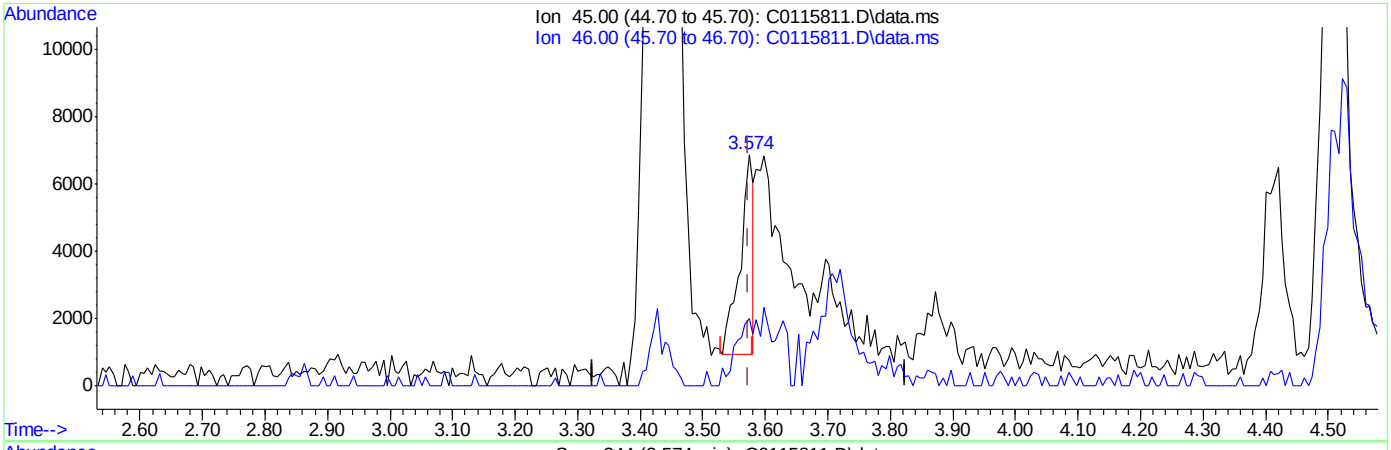
Sample Number:	VC4602-ICC4602	**Method:**	SW846 8260B
Lab FileID:	C0115811.D	**Analyst approved:**	05/24/16 07:39 Eric Parrish
Injection Time:	05/23/16 10:37	**Supervisor approved:**	05/24/16 10:46 Juan Garcia

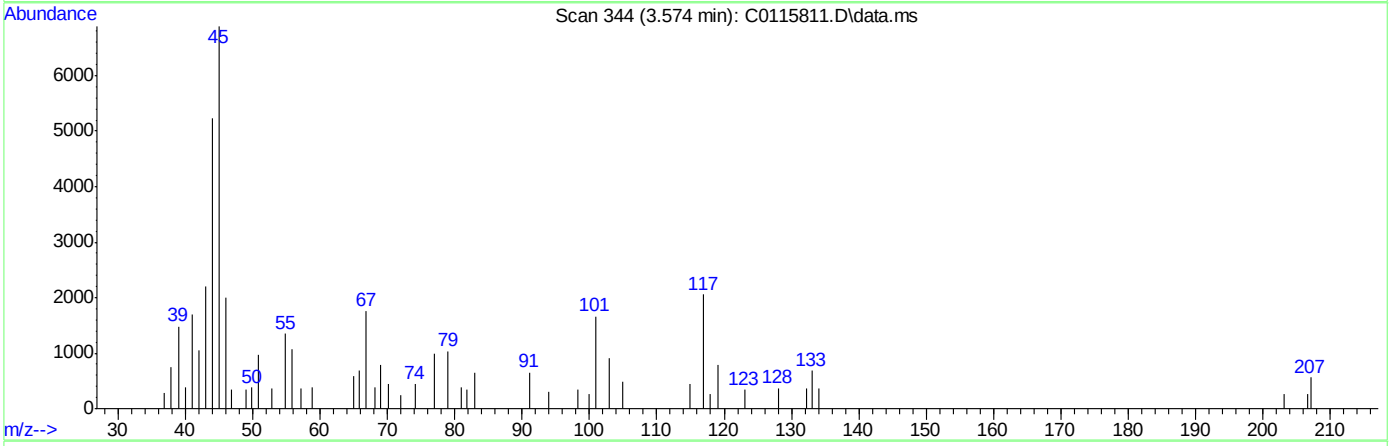
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.57	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115811.D
Acq On : 23 May 2016 10:37 am
Operator : ericp
Sample : ICC4602-4 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 11:34:47 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:29:21 2016
Response via : Initial Calibration





TIC: C0115811.D\data.ms

(104) Ethanol

3.574min (-0.000) 423.71ug/Kg

response 8874

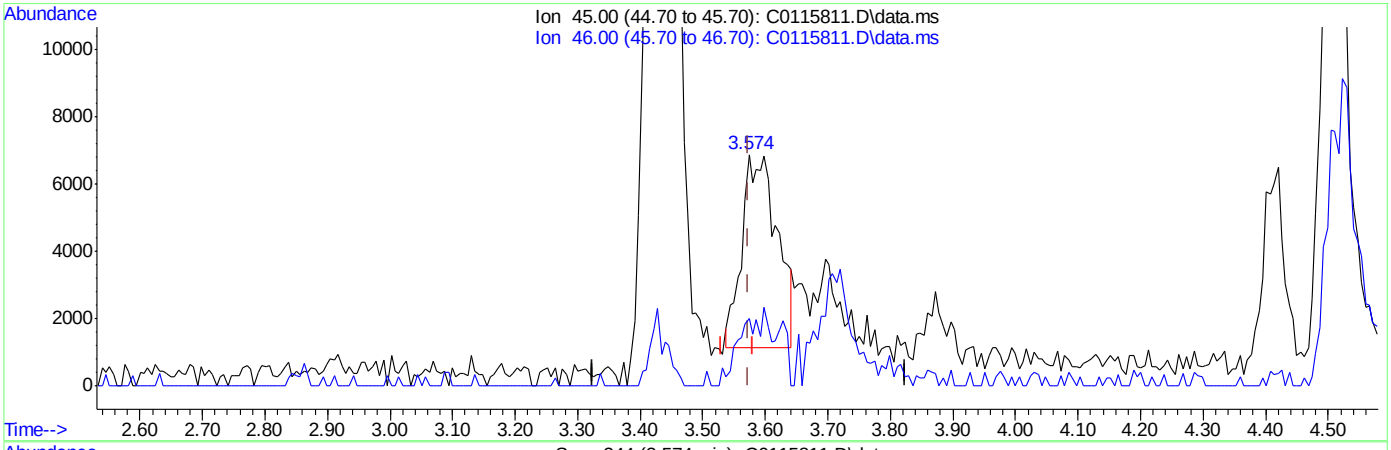
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	24.82
0.00	0.00	0.00
0.00	0.00	0.00

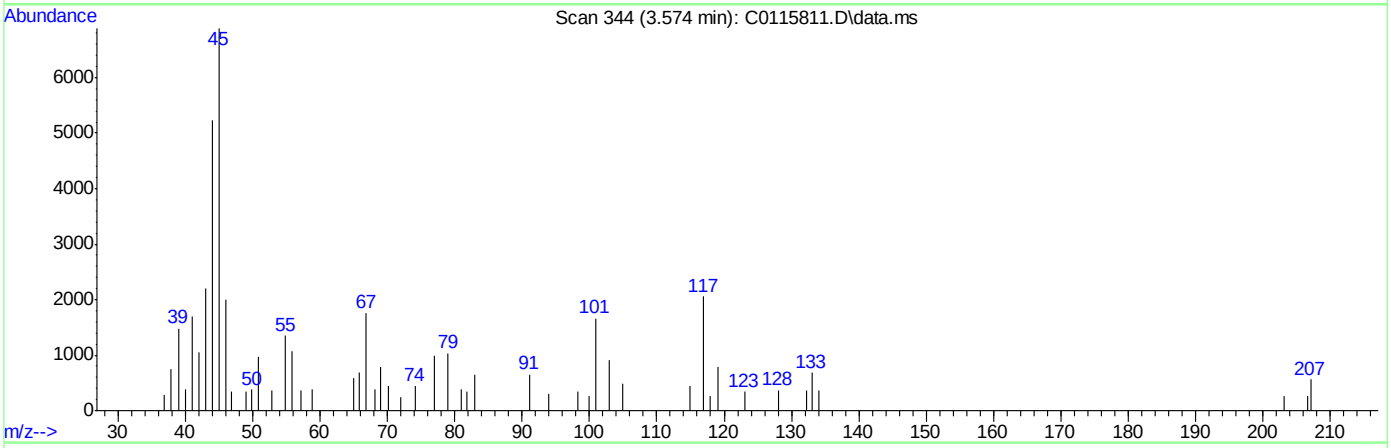
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115811.D
Acq On : 23 May 2016 10:37 am
Operator : ericp
Sample : ICC4602-4 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 23 11:34:47 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:29:21 2016
Response via : Initial Calibration





TIC: C0115811.D\data.ms

(104) Ethanol

3.574min (-0.000) 1059.65ug/Kg m

response 22193

Ion	Exp%	Act%
45.00	100	100
46.00	30.00	29.14
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115812.D
Acq On : 23 May 2016 11:02 am
Operator : ericp
Sample : IC4602-5 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 23 11:49:53 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:49:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	1256672	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	986269	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	578298	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.529	65	127395	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	377554	46.43	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 92.86%			
44) 1,2-Dichloroethane-d4	6.610	65	422284	47.49	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 94.98%			
55) Toluene-d8	8.453	98	1361844	48.70	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.40%			
77) 4-Bromofluorobenzene	11.227	174	478491	52.59	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 105.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	1290395	93.28	ug/Kg	99
3) Chloromethane	2.406	50	868161	94.03	ug/Kg	100
4) Vinyl Chloride	2.522	62	829306	93.98	ug/Kg	96
5) Bromomethane	2.868	94	429233	89.94	ug/Kg	89
6) Chloroethane	3.008	64	298698	89.03	ug/Kg	97
7) Trichlorofluoromethane	3.160	101	1353921	92.61	ug/Kg	97
8) Ethyl Ether	3.434	59	435187	95.48	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.665	67	695817	92.73	ug/Kg	95
10) 1,1-Dichloroethene	3.659	61	1079849	92.90	ug/Kg	94
11) Freon 113	3.714	101	709601	91.45	ug/Kg	92
12) Carbon Disulfide	3.708	76	1874518	91.62	ug/Kg	94
13) Iodomethane	3.817	142	1482801	93.51	ug/Kg	93
14) Allyl chloride	4.140	41	878529	92.14	ug/Kg	91
15) Methylene Chloride	4.255	49	713819	91.45	ug/Kg	93
16) Acetone	4.304	43	765836	490.49	ug/Kg	98
17) Methyl acetate	4.414	43	1221500	479.16	ug/Kg	98
18) trans-1,2-Dichloroethene	4.414	61	881819	92.04	ug/Kg	99
19) Hexane	4.474	56	432002	93.59	ug/Kg	94
20) Methyl Tert Butyl Ether	4.511	73	1953664	96.46	ug/Kg	97
21) Acetonitrile	4.791	41	314917	957.51	ug/Kg	98
22) Di-isopropyl ether	4.876	45	1617738	84.22	ug/Kg	98
23) Chloroprene	5.010	53	1336606	94.05	ug/Kg	94
24) 1,1-Dichloroethane	5.046	63	1140318	94.07	ug/Kg	96
25) Acrylonitrile	5.101	52	569013	485.49	ug/Kg	96
26) ETBE	5.247	59	1999131	96.24	ug/Kg	95
27) Vinyl acetate	5.271	43	3653887	483.57	ug/Kg	97
28) cis-1,2-Dichloroethene	5.594	96	849477	93.84	ug/Kg	96
29) 2,2-Dichloropropane	5.703	77	827788	91.20	ug/Kg	97
30) Bromochloromethane	5.801	128	416149	95.07	ug/Kg	94
31) Cyclohexane	5.807	84	1083198	93.62	ug/Kg	97
32) Chloroform	5.862	83	1469076	96.06	ug/Kg	97
33) Ethyl acetate	5.965	43	1619830	459.56	ug/Kg	99
34) Tetrahydrofuran	6.038	42	94244	99.58	ug/Kg	85

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115812.D
Acq On : 23 May 2016 11:02 am
Operator : ericp
Sample : IC4602-5 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 23 11:49:53 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:49:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36) Carbon Tetrachloride	6.020	117	1560029	93.74 ug/Kg	100
37) 1,1,1-Trichloroethane	6.087	97	1364317	92.35 ug/Kg	95
38) 2-Butanone	6.178	43	968192	477.75 ug/Kg	94
39) 1,1-Dichloropropene	6.208	75	991534	94.10 ug/Kg	95
40) Propionitrile	6.506	54	483075	964.82 ug/Kg#	53
41) Methacrylonitrile	6.519	41	2212531	992.23 ug/Kg	99
42) Benzene	6.470	78	2452073	95.37 ug/Kg	99
43) TAME	6.555	73	1908733	85.74 ug/Kg	97
45) 1,2-Dichloroethane	6.683	62	1029380	87.65 ug/Kg	97
46) Trichloroethene	7.054	95	754518	85.94 ug/Kg	93
47) Methylcyclohexane	7.048	83	1153383	92.01 ug/Kg	98
48) Dibromomethane	7.492	93	458802	88.57 ug/Kg	93
49) 1,2-Dichloropropane	7.589	63	626560	90.98 ug/Kg	90
50) Bromodichloromethane	7.644	83	1128274	90.46 ug/Kg	99
51) Methyl methacrylate	7.766	41	402005	96.93 ug/Kg	92
52) 2-Chloroethyl vinyl ether	8.192	63	1293782	499.14 ug/Kg	95
53) cis-1,3-Dichloropropene	8.271	75	1077695	97.63 ug/Kg	92
56) Toluene	8.502	91	2702864	81.89 ug/Kg	91
57) 2-Nitropropane	8.745	41	843931	440.93 ug/Kg	91
58) 4-Methyl-2-pentanone	8.867	43	2004315	465.97 ug/Kg	96
59) trans-1,3-Dichloropropene	8.915	75	803919	100.74 ug/Kg	95
60) Tetrachloroethene	8.891	166	942038	86.72 ug/Kg	97
61) Ethyl methacrylate	9.037	69	659311	91.87 ug/Kg	96
62) 1,1,2-Trichloroethane	9.080	83	410151	87.89 ug/Kg	87
63) Dibromochloromethane	9.262	129	865543	97.24 ug/Kg	95
64) 1,3-Dichloropropane	9.354	76	863071	95.63 ug/Kg	97
65) 1,2-Dibromoethane	9.512	107	612156	100.12 ug/Kg	94
66) 2-hexanone	9.694	43	1331153	436.91 ug/Kg	93
67) 1-Chlorohexane	9.974	91	927962	84.75 ug/Kg	93
68) Ethylbenzene	10.035	91	2761495	91.06 ug/Kg	89
69) Chlorobenzene	10.023	112	1686044	87.82 ug/Kg	94
70) 1,1,1,2-Tetrachloroethane	10.077	131	917532	84.28 ug/Kg	95
71) m,p-Xylene	10.175	91	4101990	167.61 ug/Kg	87
72) o-Xylene	10.613	91	2746702	89.99 ug/Kg	90
73) Styrene	10.662	104	1823149	85.84 ug/Kg	98
74) Bromoform	10.710	173	503017	96.53 ug/Kg	95
75) Isopropylbenzene	10.917	105	3311518	88.73 ug/Kg	92
78) cis-1,4-Dichloro-2-butene	11.282	53	177815	102.96 ug/Kg	86
79) n-Propylbenzene	11.343	91	3141033	87.98 ug/Kg	88
80) Bromobenzene	11.343	156	829027	88.50 ug/Kg	91
81) 1,1,2,2-Tetrachloroethane	11.422	83	694343	88.88 ug/Kg	98
82) 1,3,5-Trimethylbenzene	11.531	105	2801245	88.88 ug/Kg	91
83) 2-Chlorotoluene	11.519	91	2545090	90.09 ug/Kg	94
84) trans-1,4-Dichloro-2-B...	11.598	53	155900	95.13 ug/Kg	77
85) 1,2,3-Trichloropropane	11.568	110	229788	89.70 ug/Kg	90
86) Cyclohexanone	11.629	55	147357	472.19 ug/Kg	88
87) 4-Chlorotoluene	11.690	91	2193277	83.04 ug/Kg	91
88) tert-Butylbenzene	11.866	91	2026432	89.19 ug/Kg	90
89) 1,2,4-Trimethylbenzene	11.939	105	2734049	89.81 ug/Kg	89
90) Pentachloroethane	11.909	167	628999	88.93 ug/Kg	94

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115812.D
Acq On : 23 May 2016 11:02 am
Operator : ericp
Sample : IC4602-5 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 23 11:49:53 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:49:42 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.049	105	3471825	81.44	ug/Kg	89
92) 4-Isopropyltoluene	12.188	119	3150838	89.69	ug/Kg	91
93) 1,3-Dichlorobenzene	12.298	146	1550327	84.97	ug/Kg	97
94) 1,4-Dichlorobenzene	12.389	146	1424340	87.19	ug/Kg	95
95) n-Butylbenzene	12.626	92	1611706	81.79	ug/Kg	90
96) Benzyl Chloride	12.639	126	316853	88.53	ug/Kg#	66
97) 1,2-Dichlorobenzene	12.833	146	1597046	82.33	ug/Kg	95
98) 1,2-Dibromo-3-Chloropr...	13.642	75	204770	88.68	ug/Kg	81
99) Hexachlorobutadiene	14.220	225	941293	90.91	ug/Kg	93
100) 1,2,4-Trichlorobenzene	14.263	180	1309468	90.46	ug/Kg	99
101) Naphthalene	14.549	128	2670462	90.70	ug/Kg	93
102) 1,2,3-Trichlorobenzene	14.707	180	1286235	90.42	ug/Kg	98
104) Ethanol	3.586	45	50955	1949.50	ug/Kg	98
105) Acrolein	4.012	56	387369	442.07	ug/Kg	99
106) Tert butyl alcohol	4.596	59	614306	946.02	ug/Kg	97
107) Isobutyl alcohol	6.646	42	190942	1913.65	ug/Kg	94
108) Tert Amyl Alcohol	6.756	59	509603	973.75	ug/Kg	95
109) 1,4-Dioxane	7.845	88	134000	2011.80	ug/Kg	97

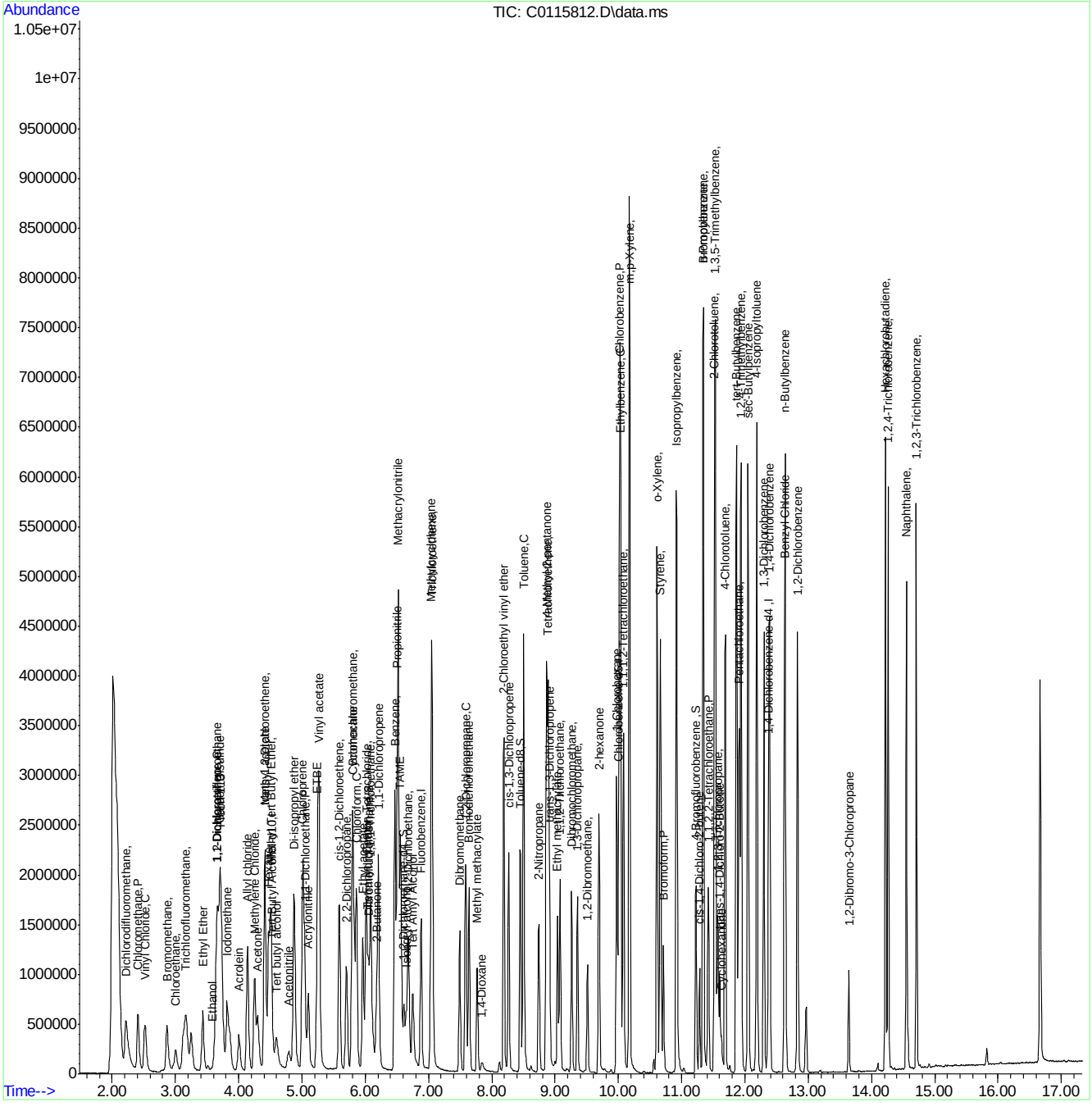
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115812.D
Acq On : 23 May 2016 11:02 am
Operator : ericp
Sample : IC4602-5 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: May 23 11:49:53 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:49:42 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/24/16 10:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115813.D
Acq On : 23 May 2016 11:28 am
Operator : ericp
Sample : IC4602-6 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:49:26 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:45:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.883	96	1237672	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	932675	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	524334	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.529	65	112389	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	354735	44.29	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 88.58%			
44) 1,2-Dichloroethane-d4	6.610	65	398314	45.48	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 90.96%			
55) Toluene-d8	8.453	98	1364233	51.59	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 103.18%			
77) 4-Bromofluorobenzene	11.227	174	451687	54.75	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 109.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	1934753	152.88	ug/Kg	98
3) Chloromethane	2.406	50	1302161	152.59	ug/Kg	97
4) Vinyl Chloride	2.522	62	1253713	152.51	ug/Kg	97
5) Bromomethane	2.862	94	630546	155.46	ug/Kg	93
6) Chloroethane	3.002	64	427400	157.07	ug/Kg	95
7) Trichlorofluoromethane	3.160	101	1886340	154.25	ug/Kg	97
8) Ethyl Ether	3.434	59	615271	152.22	ug/Kg	92
9) 1,2-Dichlorotrifluoroe...	3.653	67	1001268	153.70	ug/Kg	95
10) 1,1-Dichloroethene	3.659	61	1553017	153.55	ug/Kg	94
11) Freon 113	3.708	101	1040053	154.24	ug/Kg	94
12) Carbon Disulfide	3.708	76	2685294	154.50	ug/Kg	96
13) Iodomethane	3.817	142	2166036	152.98	ug/Kg	92
14) Allyl chloride	4.140	41	1297096	153.72	ug/Kg	89
15) Methylene Chloride	4.249	49	1039294	154.58	ug/Kg	95
16) Acetone	4.304	43	1089014	755.31	ug/Kg	100
17) Methyl acetate	4.414	43	1765049	760.00	ug/Kg	97
18) trans-1,2-Dichloroethene	4.414	61	1287557	153.88	ug/Kg	95
19) Hexane	4.474	56	633323	152.84	ug/Kg	92
20) Methyl Tert Butyl Ether	4.511	73	2760762	151.75	ug/Kg	96
21) Acetonitrile	4.791	41	476423	1518.07	ug/Kg	97
22) Di-isopropyl ether	4.876	45	2316924	122.47	ug/Kg	98
23) Chloroprene	5.010	53	1899065	152.98	ug/Kg	93
24) 1,1-Dichloroethane	5.040	63	1654371	152.78	ug/Kg	95
25) Acrylonitrile	5.101	52	847373	756.27	ug/Kg	94
26) ETBE	5.247	59	2807164	151.86	ug/Kg	95
27) Vinyl acetate	5.271	43	5046148	758.99	ug/Kg	95
28) cis-1,2-Dichloroethene	5.594	96	1227986	152.88	ug/Kg	96
29) 2,2-Dichloropropane	5.703	77	1197194	154.74	ug/Kg	94
30) Bromochloromethane	5.801	128	600888	152.25	ug/Kg	92
31) Cyclohexane	5.807	84	1568058	153.02	ug/Kg	98
32) Chloroform	5.861	83	2097398	151.90	ug/Kg	98
33) Ethyl acetate	5.965	43	2303178	663.47	ug/Kg	99
34) Tetrahydrofuran	6.044	42	135589	150.40	ug/Kg	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115813.D
Acq On : 23 May 2016 11:28 am
Operator : ericp
Sample : IC4602-6 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:49:26 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:45:23 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36)	Carbon Tetrachloride	6.014	117	2291643	152.68 ug/Kg	98
37)	1,1,1-Trichloroethane	6.087	97	1967219	153.80 ug/Kg	96
38)	2-Butanone	6.178	43	1297072	649.85 ug/Kg	92
39)	1,1-Dichloropropene	6.208	75	1445137	152.62 ug/Kg	96
40)	Propionitrile	6.506	54	707554	1516.42 ug/Kg#	74
41)	Methacrylonitrile	6.518	41	3080284	1505.25 ug/Kg	97
42)	Benzene	6.470	78	3498647	152.16 ug/Kg	99
43)	TAME	6.561	73	2658077	121.23 ug/Kg	98
45)	1,2-Dichloroethane	6.683	62	1427401	123.40 ug/Kg	97
46)	Trichloroethene	7.054	95	1085176	125.50 ug/Kg	90
47)	Methylcyclohexane	7.048	83	1693579	153.76 ug/Kg	97
48)	Dibromomethane	7.492	93	676236	132.54 ug/Kg	92
49)	1,2-Dichloropropane	7.589	63	911412	134.37 ug/Kg	88
50)	Bromodichloromethane	7.644	83	1636504	133.23 ug/Kg	99
51)	Methyl methacrylate	7.772	41	570983	139.79 ug/Kg	89
52)	2-Chloroethyl vinyl ether	8.191	63	1755532	687.68 ug/Kg	96
53)	cis-1,3-Dichloropropene	8.271	75	1531144	140.83 ug/Kg	94
56)	Toluene	8.502	91	3799651	121.73 ug/Kg	89
57)	2-Nitropropane	8.745	41	1208258	667.55 ug/Kg	91
58)	4-Methyl-2-pentanone	8.867	43	2699587	768.55 ug/Kg	95
59)	trans-1,3-Dichloropropene	8.915	75	1104034	146.30 ug/Kg	97
60)	Tetrachloroethene	8.891	166	1372672	133.62 ug/Kg	96
61)	Ethyl methacrylate	9.037	69	912790	134.50 ug/Kg	96
62)	1,1,2-Trichloroethane	9.080	83	588848	133.43 ug/Kg	91
63)	Dibromochloromethane	9.262	129	1207785	143.49 ug/Kg	96
64)	1,3-Dichloropropane	9.353	76	1218456	142.76 ug/Kg	95
65)	1,2-Dibromoethane	9.512	107	850978	147.18 ug/Kg	92
66)	2-hexanone	9.694	43	1815758	630.21 ug/Kg	93
67)	1-Chlorohexane	9.974	91	1331554	128.60 ug/Kg	93
68)	Ethylbenzene	10.035	91	3750323	154.97 ug/Kg	86
69)	Chlorobenzene	10.023	112	2335096	128.61 ug/Kg	93
70)	1,1,1,2-Tetrachloroethane	10.083	131	1331646	129.34 ug/Kg	94
71)	m,p-Xylene	10.175	91	5386199	Below Cal	80
72)	o-Xylene	10.613	91	3700139	156.14 ug/Kg	85
73)	Styrene	10.667	104	2493530	124.15 ug/Kg	97
74)	Bromoform	10.710	173	715530	145.20 ug/Kg	93
75)	Isopropylbenzene	10.923	105	4535087	156.90 ug/Kg	84
78)	cis-1,4-Dichloro-2-butene	11.282	53	231147	147.61 ug/Kg	86
79)	n-Propylbenzene	11.343	91	4178880	157.02 ug/Kg	82
80)	Bromobenzene	11.343	156	1152094	135.64 ug/Kg	93
81)	1,1,2,2-Tetrachloroethane	11.422	83	960869	135.66 ug/Kg	97
82)	1,3,5-Trimethylbenzene	11.531	105	3775731	155.76 ug/Kg	87
83)	2-Chlorotoluene	11.519	91	3443653	154.80 ug/Kg	92
84)	trans-1,4-Dichloro-2-B...	11.598	53	206320	138.85 ug/Kg	76
85)	1,2,3-Trichloropropane	11.568	110	321538	138.43 ug/Kg	93
86)	Cyclohexanone	11.629	55	208639	760.42 ug/Kg	89
87)	4-Chlorotoluene	11.690	91	2925502	122.16 ug/Kg	88
88)	tert-Butylbenzene	11.866	91	2851706	138.42 ug/Kg	87
89)	1,2,4-Trimethylbenzene	11.939	105	3680183	155.10 ug/Kg	83
90)	Pentachloroethane	11.909	167	914672	142.63 ug/Kg	90

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115813.D
Acq On : 23 May 2016 11:28 am
Operator : ericp
Sample : IC4602-6 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:49:26 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:45:23 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.048	105	4679449	121.06	ug/Kg	83
92) 4-Isopropyltoluene	12.188	119	4209373	155.24	ug/Kg	86
93) 1,3-Dichlorobenzene	12.298	146	2038597	123.22	ug/Kg	96
94) 1,4-Dichlorobenzene	12.389	146	1909112	128.89	ug/Kg	95
95) n-Butylbenzene	12.626	92	2155982	120.67	ug/Kg	87
96) Benzyl Chloride	12.639	126	419140	129.16	ug/Kg#	62
97) 1,2-Dichlorobenzene	12.833	146	2168046	123.27	ug/Kg	96
98) 1,2-Dibromo-3-Chloropr...	13.642	75	284819	136.04	ug/Kg	82
99) Hexachlorobutadiene	14.220	225	1345617	143.34	ug/Kg	93
100) 1,2,4-Trichlorobenzene	14.263	180	1765391	154.61	ug/Kg	98
101) Naphthalene	14.549	128	3518211	155.03	ug/Kg	89
102) 1,2,3-Trichlorobenzene	14.713	180	1731573	154.69	ug/Kg	97
104) Ethanol	3.592	45	70310	3049.17	ug/Kg	83
105) Acrolein	4.006	56	577518	747.07	ug/Kg	98
106) Tert butyl alcohol	4.608	59	904177	1578.32	ug/Kg	92
107) Isobutyl alcohol	6.652	42	286825	3258.42	ug/Kg	89
108) Tert Amyl Alcohol	6.756	59	723923	1567.96	ug/Kg	94
109) 1,4-Dioxane	7.845	88	185182m	3078.05	ug/Kg	

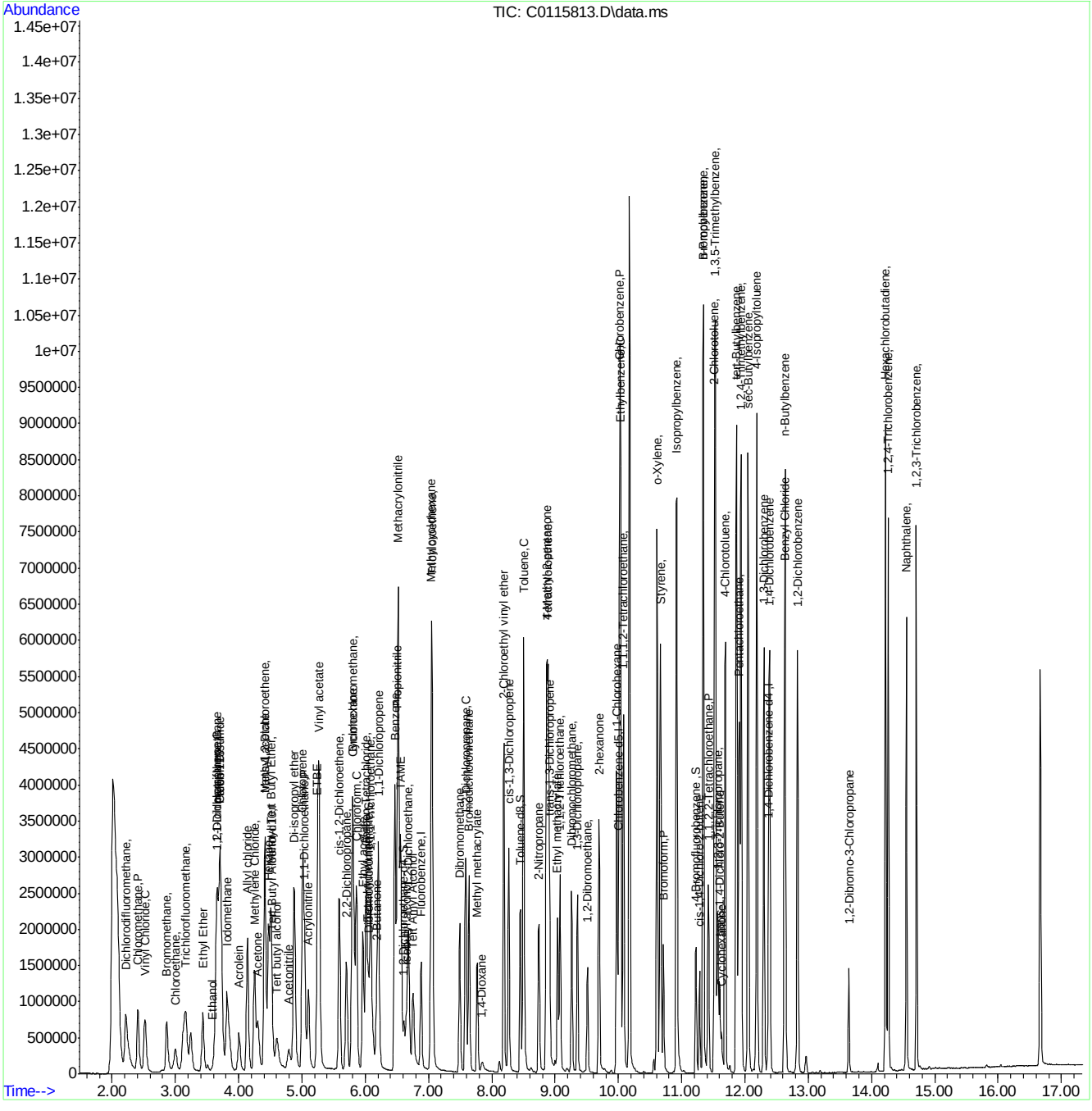
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115813.D
Acq On : 23 May 2016 11:28 am
Operator : ericp
Sample : IC4602-6 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:49:26 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:45:23 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

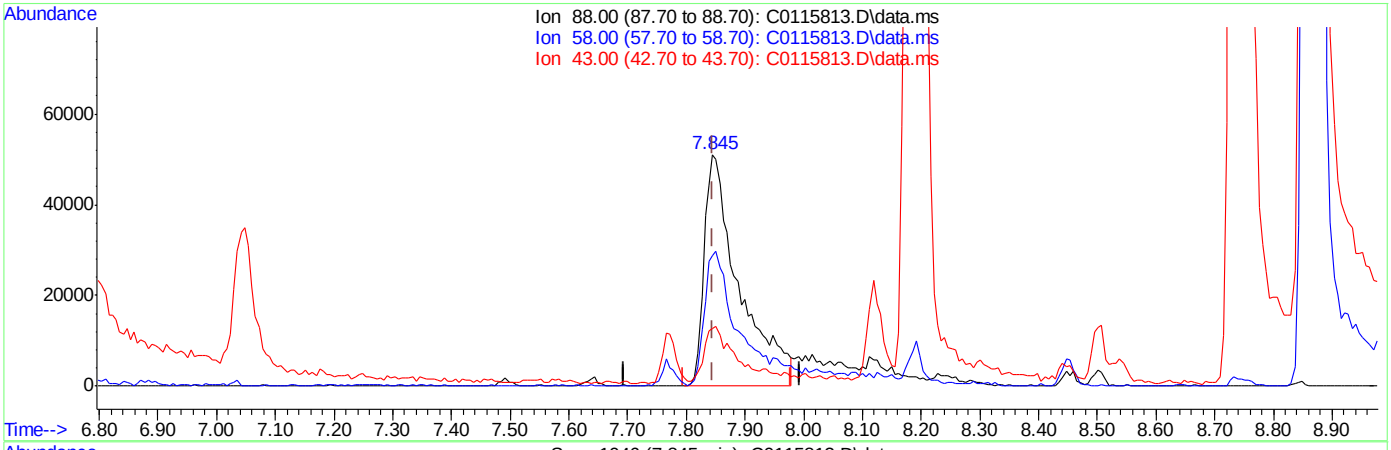
Sample Number:	VC4602-IC4602	**Method:**	SW846 8260B
Lab FileID:	C0115813.D	**Analyst approved:**	05/24/16 07:39 Eric Parrish
Injection Time:	05/23/16 11:28	**Supervisor approved:**	05/24/16 10:46 Juan Garcia

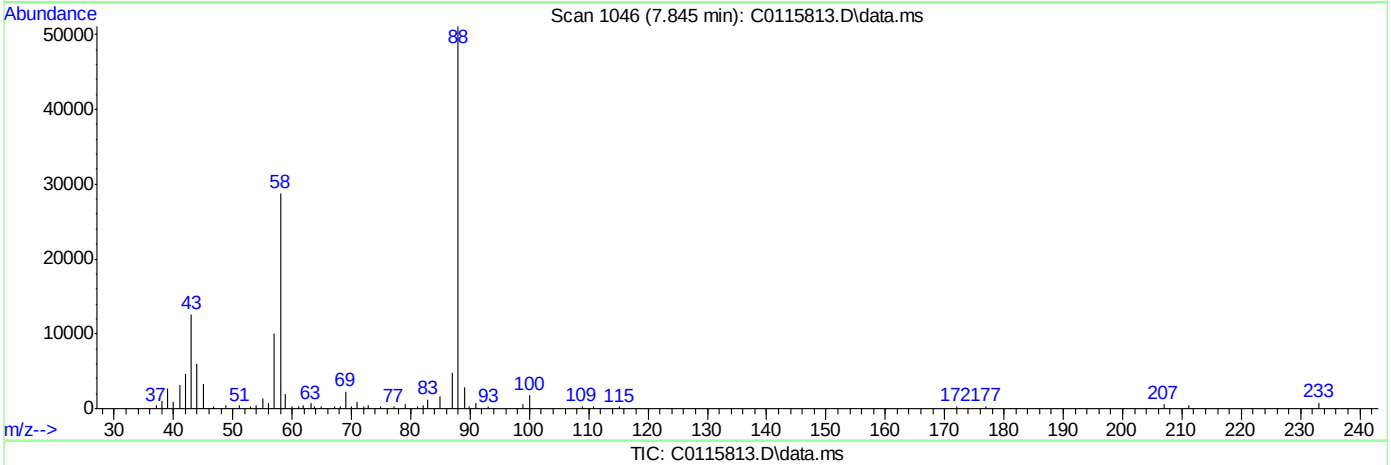
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,4-Dioxane	123-91-1		7.84	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115813.D
Acq On : 23 May 2016 11:28 am
Operator : ericp
Sample : IC4602-6 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:48:51 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:45:23 2016
Response via : Initial Calibration





TIC: C0115813.D\data.ms

(109) 1,4-Dioxane

7.845min (-0.000) 3497.18ug/Kg

response 210398

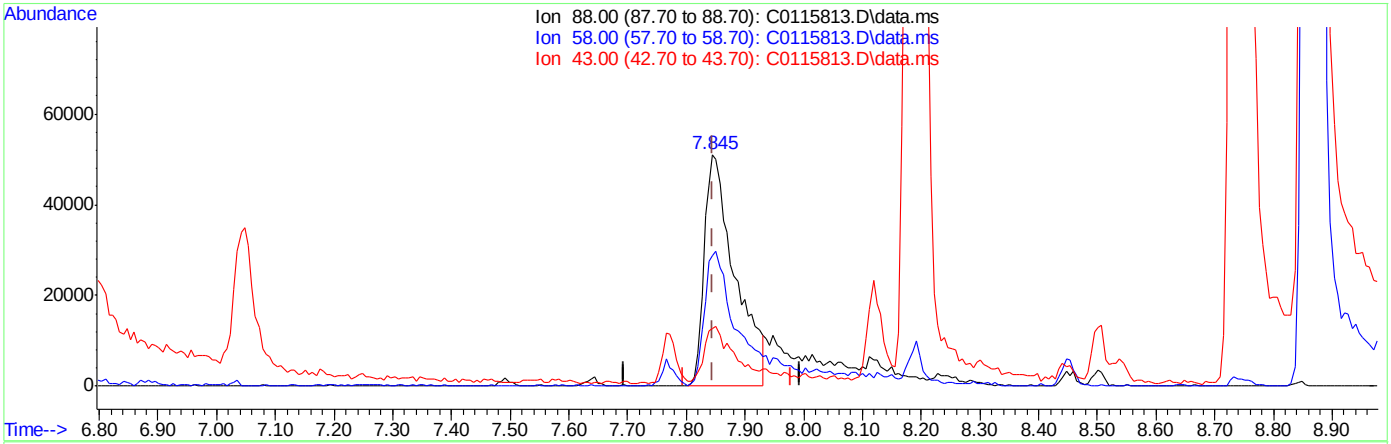
Ion	Exp%	Act%
88.00	100	100
58.00	60.50	55.35
43.00	26.20	21.28
0.00	0.00	0.00

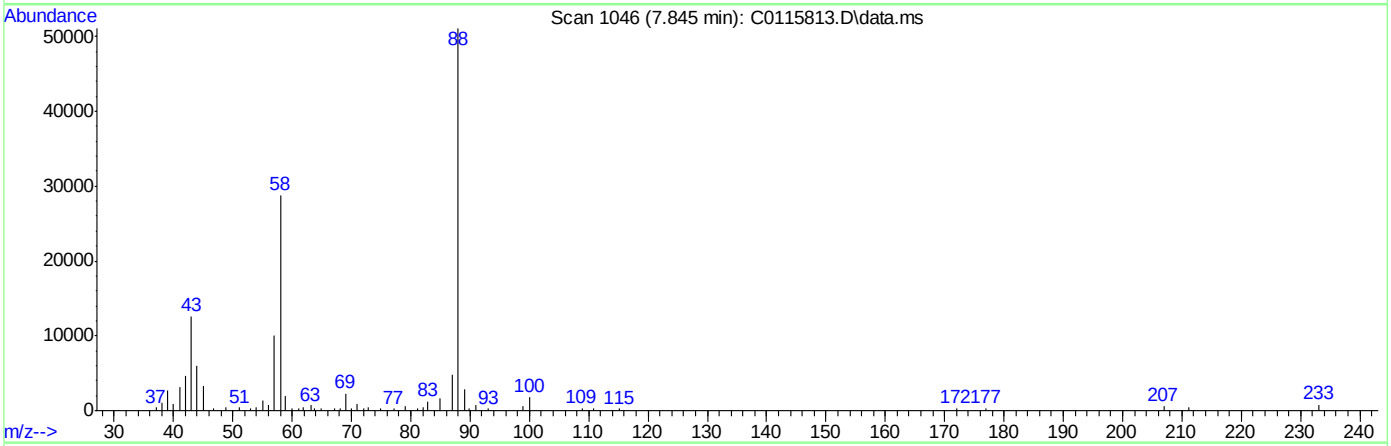
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115813.D
Acq On : 23 May 2016 11:28 am
Operator : ericp
Sample : IC4602-6 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: May 23 11:48:51 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 11:45:23 2016
Response via : Initial Calibration





TIC: C0115813.D\data.ms

(109) 1,4-Dioxane

7.845min (-0.000) 3078.05ug/Kg m

response 185182

Ion	Exp%	Act%
88.00	100	100
58.00	60.50	56.44
43.00	26.20	24.69
0.00	0.00	0.00

SGS ACCUTEST FA34367

C0115814.D

Manual Integrations APPROVED (compounds with "m" flag)

Juan Garcia
05/24/16 10:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115814.D
Acq On : 23 May 2016 11:53 am
Operator : ericp
Sample : IC4602-7 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 12:19:37 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:15:52 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	1313156	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	974586	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	558748	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.541	65	91035	250.00	ug/Kg	0.02
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	366812	44.03	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 88.06%			
44) 1,2-Dichloroethane-d4	6.616	65	425208	46.32	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 92.64%			
55) Toluene-d8	8.453	98	1443735	51.91	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 103.82%			
77) 4-Bromofluorobenzene	11.227	174	477623	53.67	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 107.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	2573539	200.69	ug/Kg	99
3) Chloromethane	2.412	50	1736730	200.43	ug/Kg	95
4) Vinyl Chloride	2.528	62	1742002	201.38	ug/Kg	100
5) Bromomethane	2.868	94	794410	201.70	ug/Kg	90
6) Chloroethane	3.008	64	502492	200.60	ug/Kg	96
7) Trichlorofluoromethane	3.160	101	2239840	199.50	ug/Kg	94
8) Ethyl Ether	3.440	59	802061	201.28	ug/Kg	92
9) 1,2-Dichlorotrifluoroe...	3.665	67	1294425	201.85	ug/Kg	96
10) 1,1-Dichloroethene	3.678	61	2055838	202.54	ug/Kg	94
11) Freon 113	3.714	101	1354425	201.97	ug/Kg	92
12) Carbon Disulfide	3.702	76	3496813	203.11	ug/Kg	98
13) Iodomethane	3.817	142	2847117	201.20	ug/Kg	92
14) Allyl chloride	4.140	41	1662722	200.62	ug/Kg	91
15) Methylene Chloride	4.249	49	1357145	202.48	ug/Kg	93
16) Acetone	4.310	43	1517242	1008.59	ug/Kg	97
17) Methyl acetate	4.420	43	2420175	1008.83	ug/Kg	95
18) trans-1,2-Dichloroethene	4.414	61	1680235	201.85	ug/Kg	95
19) Hexane	4.474	56	868390	202.25	ug/Kg	94
20) Methyl Tert Butyl Ether	4.517	73	3676797	201.48	ug/Kg	94
21) Acetonitrile	4.797	41	657845	2004.62	ug/Kg	96
22) Di-isopropyl ether	4.882	45	3094104	159.37	ug/Kg	97
23) Chloroprene	5.010	53	2538619	202.73	ug/Kg	93
24) 1,1-Dichloroethane	5.046	63	2200951	201.60	ug/Kg	93
25) Acrylonitrile	5.107	52	1173115	1002.10	ug/Kg	93
26) ETBE	5.253	59	3692870	201.48	ug/Kg	92
27) Vinyl acetate	5.277	43	6590230	1009.17	ug/Kg	90
28) cis-1,2-Dichloroethene	5.594	96	1651200	202.19	ug/Kg	95
29) 2,2-Dichloropropane	5.703	77	1450977	199.62	ug/Kg	91
30) Bromochloromethane	5.801	128	815221	201.84	ug/Kg	94
31) Cyclohexane	5.813	84	2137159	202.63	ug/Kg	96
32) Chloroform	5.862	83	2771778	200.98	ug/Kg	96
33) Ethyl acetate	5.965	43	3269002	902.05	ug/Kg	96
34) Tetrahydrofuran	6.044	42	197916	201.78	ug/Kg	88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115814.D
Acq On : 23 May 2016 11:53 am
Operator : ericp
Sample : IC4602-7 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 12:19:37 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:15:52 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
36)	Carbon Tetrachloride	6.020	117	3022264	200.91 ug/Kg	98
37)	1,1,1-Trichloroethane	6.087	97	2506952	201.40 ug/Kg	97
38)	2-Butanone	6.184	43	1854071	891.37 ug/Kg	90
39)	1,1-Dichloropropene	6.208	75	1945275	201.71 ug/Kg	95
40)	Propionitrile	6.506	54	994460	2016.31 ug/Kg	91
41)	Methacrylonitrile	6.525	41	4162805	2010.87 ug/Kg	97
42)	Benzene	6.470	78	4682774	201.78 ug/Kg	98
43)	TAME	6.561	73	3704946	164.03 ug/Kg	97
45)	1,2-Dichloroethane	6.683	62	1932880	162.43 ug/Kg	95
46)	Trichloroethene	7.054	95	1457790	163.70 ug/Kg	91
47)	Methylcyclohexane	7.048	83	2271738	202.44 ug/Kg	98
48)	Dibromomethane	7.492	93	855765	162.97 ug/Kg	92
49)	1,2-Dichloropropane	7.589	63	1051028	151.91 ug/Kg	91
50)	Bromodichloromethane	7.644	83	1918552	152.98 ug/Kg	97
51)	Methyl methacrylate	7.772	41	707782	167.72 ug/Kg	91
52)	2-Chloroethyl vinyl ether	8.192	63	2440222	913.87 ug/Kg	96
53)	cis-1,3-Dichloropropene	8.271	75	2096801	184.17 ug/Kg	93
56)	Toluene	8.502	91	4902298	155.84 ug/Kg	84
57)	2-Nitropropane	8.745	41	1658671	892.68 ug/Kg	90
58)	4-Methyl-2-pentanone	8.867	43	3471593	1016.70 ug/Kg	93
59)	trans-1,3-Dichloropropene	8.915	75	1540218	195.98 ug/Kg	93
60)	Tetrachloroethene	8.891	166	1880656	178.36 ug/Kg	96
61)	Ethyl methacrylate	9.043	69	1247699	179.02 ug/Kg	95
62)	1,1,2-Trichloroethane	9.080	83	800946	177.01 ug/Kg	90
63)	Dibromochloromethane	9.262	129	1648641	189.14 ug/Kg	92
64)	1,3-Dichloropropane	9.353	76	1676662	189.63 ug/Kg	96
65)	1,2-Dibromoethane	9.512	107	1188888	197.23 ug/Kg	95
66)	2-hexanone	9.694	43	2453046	836.93 ug/Kg	90
67)	1-Chlorohexane	9.974	91	1786879	169.37 ug/Kg	94
68)	Ethylbenzene	10.035	91	4720170	203.72 ug/Kg	82
69)	Chlorobenzene	10.023	112	3067227	166.22 ug/Kg	94
70)	1,1,1,2-Tetrachloroethane	10.084	131	1765152	168.40 ug/Kg	94
71)	m,p-Xylene	10.175	91	6554397	Below Cal	73
72)	o-Xylene	10.613	91	4703535	205.67 ug/Kg	82
73)	Styrene	10.668	104	3272945	161.01 ug/Kg	97
74)	Bromoform	10.716	173	991568	193.59 ug/Kg	93
75)	Isopropylbenzene	10.923	105	5617085	204.74 ug/Kg	79
78)	cis-1,4-Dichloro-2-butene	11.282	53	328553	197.33 ug/Kg	84
79)	n-Propylbenzene	11.343	91	5196492	203.68 ug/Kg	77
80)	Bromobenzene	11.343	156	1530594	172.92 ug/Kg	92
81)	1,1,2,2-Tetrachloroethane	11.422	83	1301596	175.90 ug/Kg	96
82)	1,3,5-Trimethylbenzene	11.537	105	4718180	201.98 ug/Kg	80
83)	2-Chlorotoluene	11.519	91	4378629	201.56 ug/Kg	87
84)	trans-1,4-Dichloro-2-B...	11.604	53	299798	190.79 ug/Kg	81
85)	1,2,3-Trichloropropane	11.574	110	436107	179.24 ug/Kg	92
86)	Cyclohexanone	11.629	55	290480	1002.85 ug/Kg	87
87)	4-Chlorotoluene	11.690	91	3811328	154.95 ug/Kg	86
88)	tert-Butylbenzene	11.866	91	3663637	170.93 ug/Kg	85
89)	1,2,4-Trimethylbenzene	11.939	105	4568483	200.98 ug/Kg	79
90)	Pentachloroethane	11.909	167	1202309	179.02 ug/Kg	90

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115814.D
Acq On : 23 May 2016 11:53 am
Operator : ericp
Sample : IC4602-7 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 12:19:37 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:15:52 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.049	105	5694479	144.63	ug/Kg	77
92) 4-Isopropyltoluene	12.188	119	5275245	202.00	ug/Kg	81
93) 1,3-Dichlorobenzene	12.298	146	2723242	159.66	ug/Kg	95
94) 1,4-Dichlorobenzene	12.389	146	2559018	166.64	ug/Kg	95
95) n-Butylbenzene	12.626	92	2805715	153.12	ug/Kg	81
96) Benzyl Chloride	12.645	126	576795	170.85	ug/Kg#	15
97) 1,2-Dichlorobenzene	12.833	146	2821731	156.07	ug/Kg	92
98) 1,2-Dibromo-3-Chloropr...	13.642	75	391926	178.77	ug/Kg	75
99) Hexachlorobutadiene	14.220	225	1786240	181.34	ug/Kg	94
100) 1,2,4-Trichlorobenzene	14.263	180	2302177	202.45	ug/Kg	97
101) Naphthalene	14.555	128	4435066	202.49	ug/Kg	83
102) 1,2,3-Trichlorobenzene	14.713	180	2278641	202.86	ug/Kg	97
104) Ethanol	3.611	45	87061m	4451.27	ug/Kg	
105) Acrolein	4.012	56	765087	1184.32	ug/Kg	98
106) Tert butyl alcohol	4.614	59	1284309	2623.86	ug/Kg	95
107) Isobutyl alcohol	6.658	42	413182	5445.82	ug/Kg	91
108) Tert Amyl Alcohol	6.762	59	1011844	2575.83	ug/Kg	91
109) 1,4-Dioxane	7.851	88	253263m	4950.62	ug/Kg	

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

7.6.7

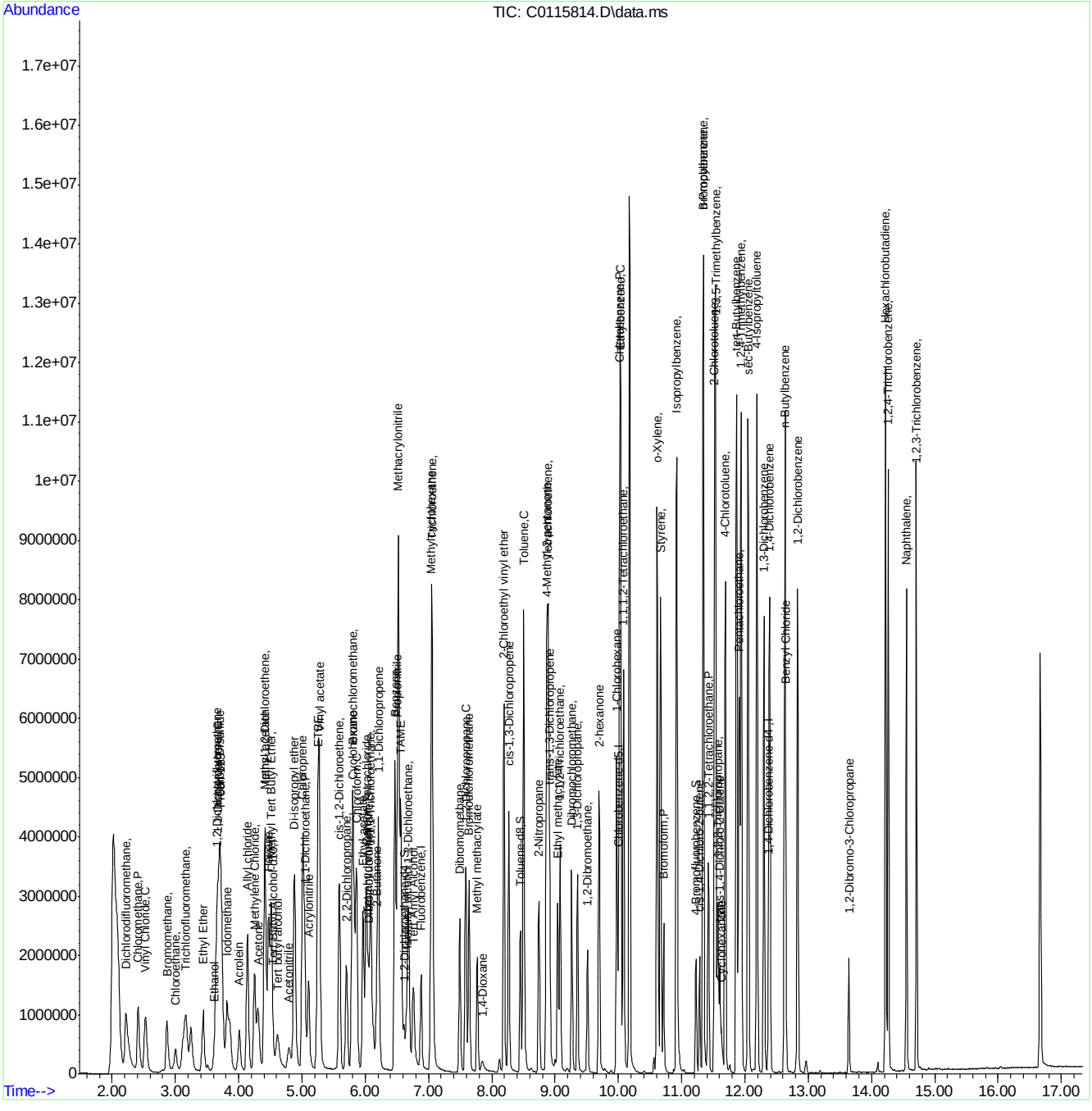
7

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115814.D
Acq On : 23 May 2016 11:53 am
Operator : ericp
Sample : IC4602-7 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 12:19:37 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:15:52 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

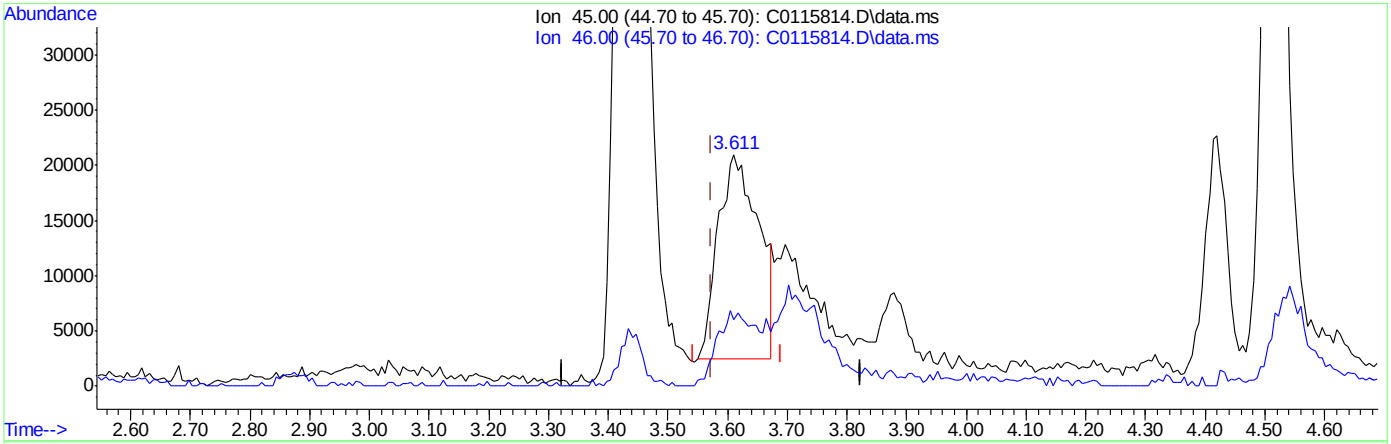
Sample Number:	VC4602-IC4602	**Method:**	SW846 8260B
Lab FileID:	C0115814.D	**Analyst approved:**	05/24/16 07:39 Eric Parrish
Injection Time:	05/23/16 11:53	**Supervisor approved:**	05/24/16 10:46 Juan Garcia

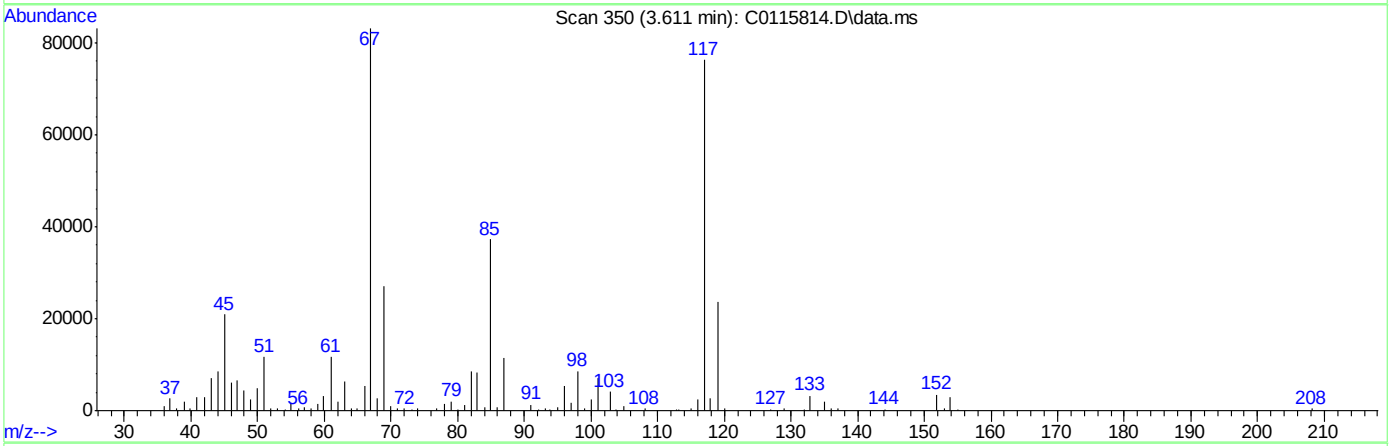
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.61	Poor instrument integration
1,4-Dioxane	123-91-1		7.85	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115814.D
Acq On : 23 May 2016 11:53 am
Operator : ericp
Sample : IC4602-7 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 12:15:57 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:15:52 2016
Response via : Initial Calibration





TIC: C0115814.D\data.ms

(104) Ethanol

3.611min (+0.037) 4451.27ug/Kg m

response 87061

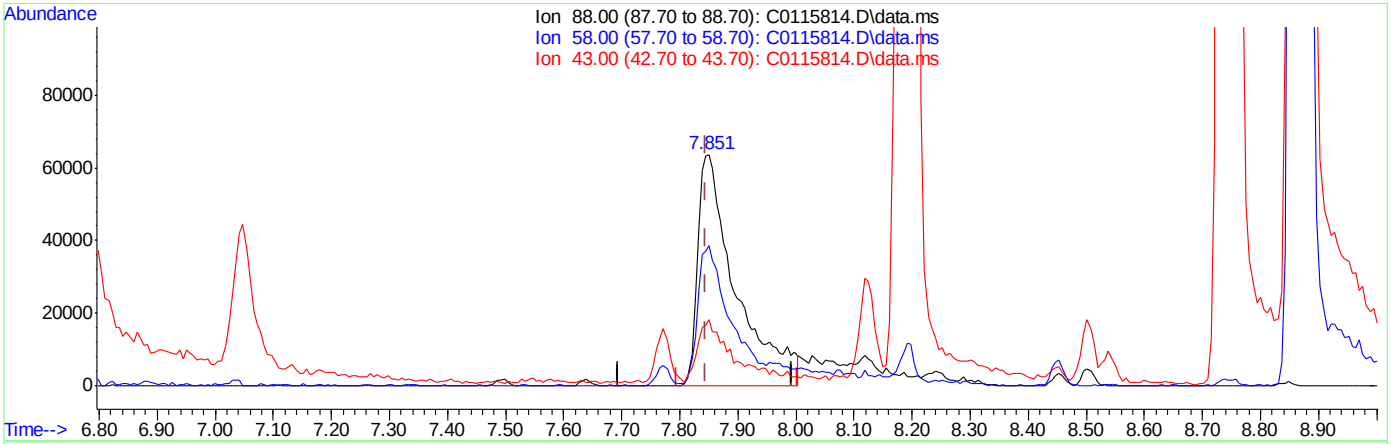
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	28.90
0.00	0.00	0.00
0.00	0.00	0.00

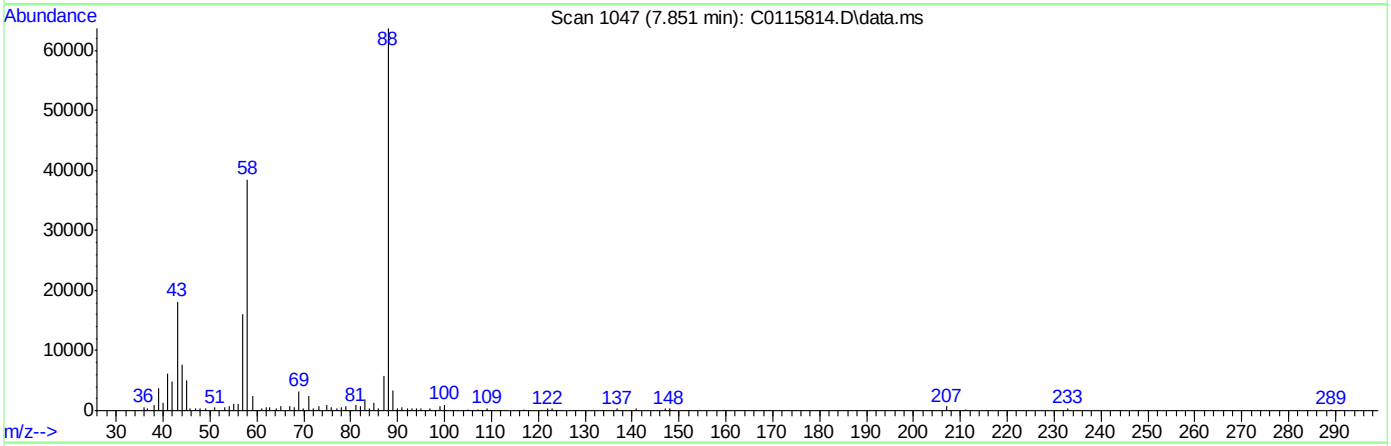
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115814.D
Acq On : 23 May 2016 11:53 am
Operator : ericp
Sample : IC4602-7 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 12:15:57 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:15:52 2016
Response via : Initial Calibration





TIC: C0115814.D\data.ms

(109) 1,4-Dioxane

7.851min (+0.006) 5670.74ug/Kg

response 290103

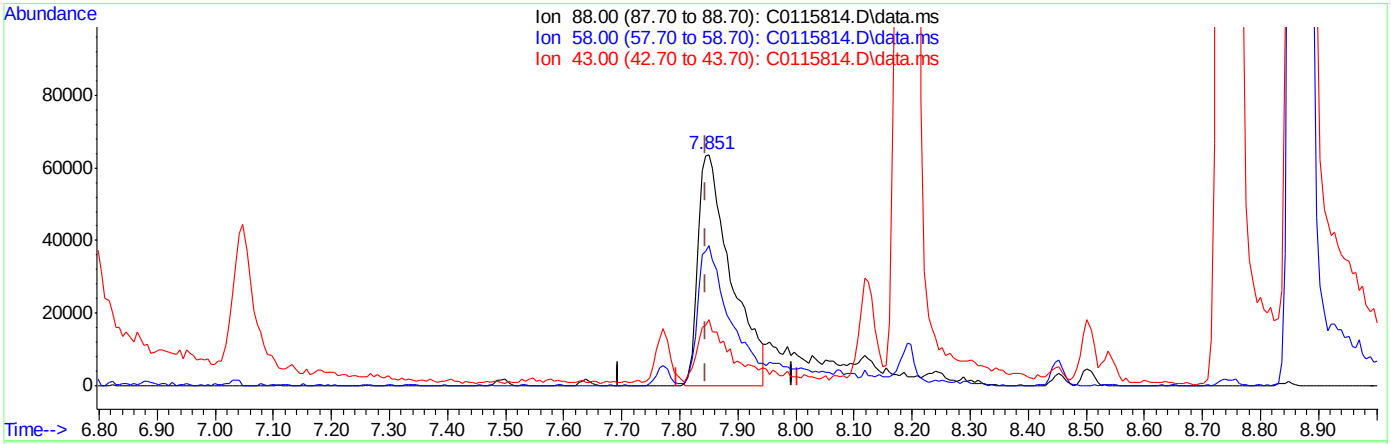
Ion	Exp%	Act%
88.00	100	100
58.00	60.50	59.49
43.00	26.20	24.50
0.00	0.00	0.00

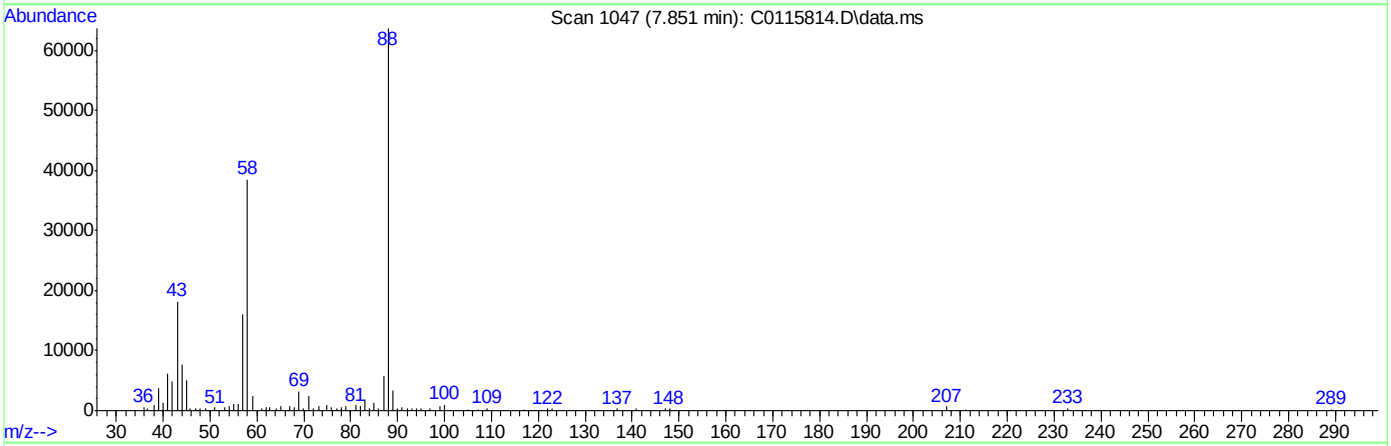
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115814.D
Acq On : 23 May 2016 11:53 am
Operator : ericp
Sample : IC4602-7 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 12:15:57 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:15:52 2016
Response via : Initial Calibration





TIC: C0115814.D\data.ms

(109) 1,4-Dioxane

7.851min (+0.006) 4950.62ug/Kg m

response 253263

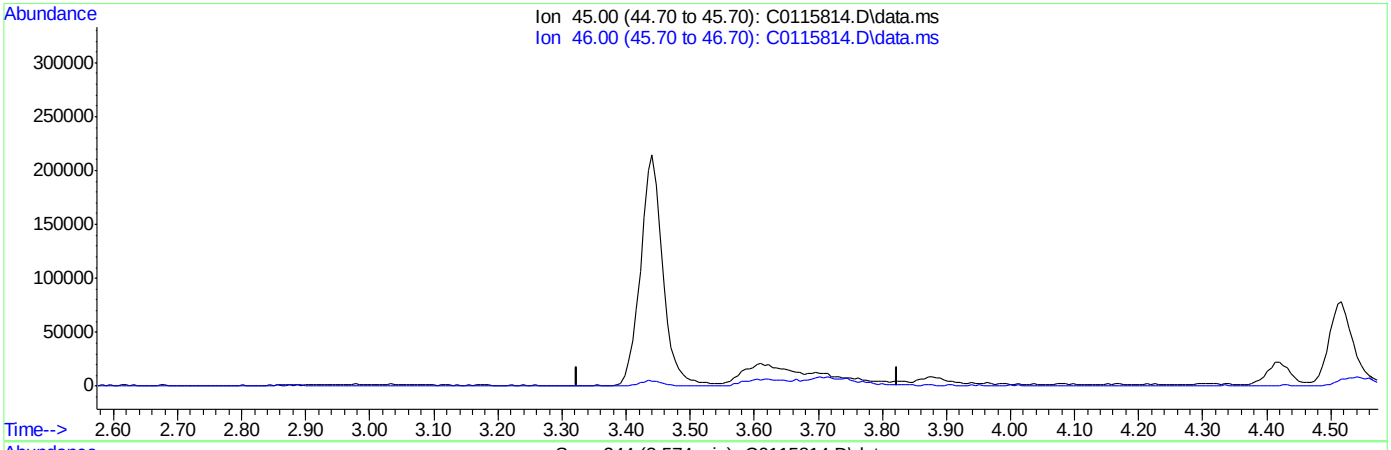
Ion	Exp%	Act%
88.00	100	100
58.00	60.50	60.47
43.00	26.20	28.52
0.00	0.00	0.00

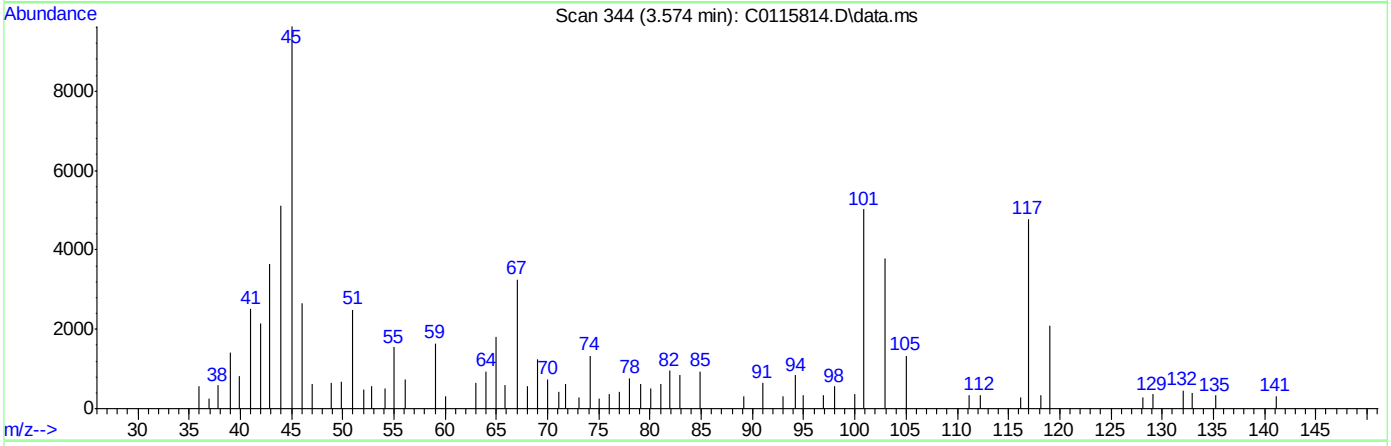
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115814.D
Acq On : 23 May 2016 11:53 am
Operator : ericp
Sample : IC4602-7 Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: May 23 12:19:37 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:15:52 2016
Response via : Initial Calibration





TIC: C0115814.D\data.ms

(104) Ethanol

3.574min 0.00ug/Kg d

response 0

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

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/24/16 10:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115817.D
Acq On : 23 May 2016 1:10 pm
Operator : ericp
Sample : ICV4602-4,BS Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 23 14:37:25 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	1239584	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	961575	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	559069	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.523	65	123738	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.050	113	377833	48.04	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.08%			
44) 1,2-Dichloroethane-d4	6.610	65	410981	47.43	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 94.86%			
55) Toluene-d8	8.453	98	1336388	48.70	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.40%			
77) 4-Bromofluorobenzene	11.227	174	457539	51.38	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 102.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.217	85	732192	51.62	ug/Kg	95
3) Chloromethane	2.406	50	498905	52.84	ug/Kg	97
4) Vinyl Chloride	2.516	62	461098	52.24	ug/Kg	97
5) Bromomethane	2.868	94	261915	52.33	ug/Kg	98
6) Chloroethane	3.008	64	186906	51.60	ug/Kg	95
7) Trichlorofluoromethane	3.160	101	790263	49.45	ug/Kg	99
8) Ethyl Ether	3.434	59	245478	51.39	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.653	67	445626	57.29	ug/Kg	97
10) 1,1-Dichloroethene	3.659	61	654839	54.68	ug/Kg	92
11) Freon 113	3.714	101	417971	51.93	ug/Kg	93
12) Carbon Disulfide	3.708	76	1116907	52.51	ug/Kg	94
13) Iodomethane	3.817	142	848666	51.66	ug/Kg	89
14) Allyl chloride	4.140	41	448269	44.52	ug/Kg	91
15) Methylene Chloride	4.249	49	449812	55.92	ug/Kg	95
16) Acetone	4.304	43	328782	206.72	ug/Kg	98
17) Methyl acetate	4.414	43	696945	269.27	ug/Kg	97
18) trans-1,2-Dichloroethene	4.414	61	561758	56.90	ug/Kg	96
19) Hexane	4.474	56	274191	58.96	ug/Kg	92
20) Methyl Tert Butyl Ether	4.511	73	1059761	50.35	ug/Kg	96
21) Acetonitrile	4.785	41	156936	475.45	ug/Kg	98
22) Di-isopropyl ether	4.876	45	919165	52.44	ug/Kg	97
23) Chloroprene	5.010	53	707252	47.94	ug/Kg	94
24) 1,1-Dichloroethane	5.040	63	679102	54.49	ug/Kg	98
25) Acrylonitrile	5.101	52	316852	269.82	ug/Kg	99
26) ETBE	5.247	59	1094562	50.33	ug/Kg	97
27) Vinyl acetate	5.271	43	2237733	283.51	ug/Kg	97
28) cis-1,2-Dichloroethene	5.588	96	484299	52.13	ug/Kg	96
29) 2,2-Dichloropropane	5.703	77	514058	52.99	ug/Kg	95
30) Bromochloromethane	5.801	128	226868	50.61	ug/Kg	94
31) Cyclohexane	5.807	84	628101	53.33	ug/Kg	96
32) Chloroform	5.862	83	820758	51.66	ug/Kg	98
33) Ethyl acetate	5.959	43	932492	272.58	ug/Kg	99
34) Tetrahydrofuran	6.038	42	54592m	58.91	ug/Kg	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115817.D
Acq On : 23 May 2016 1:10 pm
Operator : ericp
Sample : ICV4602-4,BS Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 23 14:37:25 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.014	117	923643	53.83	ug/Kg	98
37)	1,1,1-Trichloroethane	6.087	97	779909	50.07	ug/Kg	93
38)	2-Butanone	6.178	43	435681	221.89	ug/Kg	93
39)	1,1-Dichloropropene	6.208	75	601030	55.90	ug/Kg	95
40)	Propionitrile	6.500	54	262837	525.16	ug/Kg	88
41)	Methacrylonitrile	6.512	41	1202310	522.21	ug/Kg	97
42)	Benzene	6.470	78	1428323	53.94	ug/Kg	97
43)	TAME	6.555	73	995361	49.70	ug/Kg	98
45)	1,2-Dichloroethane	6.683	62	570709	52.70	ug/Kg	96
46)	Trichloroethene	7.054	95	435101	51.76	ug/Kg	89
47)	Methylcyclohexane	7.048	83	711594	55.71	ug/Kg	99
48)	Dibromomethane	7.492	93	262972	53.05	ug/Kg	92
49)	1,2-Dichloropropane	7.589	63	356163	54.53	ug/Kg	84
50)	Bromodichloromethane	7.638	83	640945	54.14	ug/Kg	100
51)	Methyl methacrylate	7.766	41	217375	54.57	ug/Kg	92
52)	2-Chloroethyl vinyl ether	8.192	63	720775	285.95	ug/Kg	94
53)	cis-1,3-Dichloropropene	8.265	75	610587	56.81	ug/Kg	93
56)	Toluene	8.502	91	1624903	54.24	ug/Kg	96
57)	2-Nitropropane	8.745	41	426842	232.83	ug/Kg	94
58)	4-Methyl-2-pentanone	8.867	43	1099227	246.32	ug/Kg	98
59)	trans-1,3-Dichloropropene	8.915	75	466825	59.71	ug/Kg	95
60)	Tetrachloroethene	8.891	166	548970	52.77	ug/Kg	95
61)	Ethyl methacrylate	9.037	69	326581	47.49	ug/Kg	95
62)	1,1,2-Trichloroethane	9.080	83	236124	52.89	ug/Kg	91
63)	Dibromochloromethane	9.262	129	481421	55.98	ug/Kg	92
64)	1,3-Dichloropropane	9.354	76	471152	54.01	ug/Kg	94
65)	1,2-Dibromoethane	9.512	107	342254	57.55	ug/Kg	97
66)	2-hexanone	9.694	43	673725	232.97	ug/Kg	95
67)	1-Chlorohexane	9.974	91	543681	52.23	ug/Kg	92
68)	Ethylbenzene	10.029	91	1715884	54.81	ug/Kg	95
69)	Chlorobenzene	10.023	112	1007041	55.31	ug/Kg	93
70)	1,1,1,2-Tetrachloroethane	10.077	131	538220	52.04	ug/Kg	94
71)	m,p-Xylene	10.175	91	2706274	103.04	ug/Kg	93
72)	o-Xylene	10.613	91	1714971	54.75	ug/Kg	94
73)	Styrene	10.661	104	1076853	53.69	ug/Kg	97
74)	Bromoform	10.710	173	274871	54.39	ug/Kg	96
75)	Isopropylbenzene	10.917	105	2120578	55.08	ug/Kg	97
78)	cis-1,4-Dichloro-2-butene	11.282	53	81473	48.90	ug/Kg	85
79)	n-Propylbenzene	11.337	91	2044872	55.89	ug/Kg	95
80)	Bromobenzene	11.343	156	478014	53.97	ug/Kg	91
81)	1,1,2,2-Tetrachloroethane	11.416	83	389277	52.58	ug/Kg	95
82)	1,3,5-Trimethylbenzene	11.531	105	1708369	52.54	ug/Kg	92
83)	2-Chlorotoluene	11.519	91	1567118	54.20	ug/Kg	96
84)	trans-1,4-Dichloro-2-B...	11.598	53	81880	52.08	ug/Kg	78
85)	1,2,3-Trichloropropane	11.568	110	125559	51.57	ug/Kg	93
86)	Cyclohexanone	11.629	55	65810	215.03	ug/Kg	90
87)	4-Chlorotoluene	11.684	91	1341947	56.14	ug/Kg	97
88)	tert-Butylbenzene	11.866	91	1204854	53.38	ug/Kg	91
89)	1,2,4-Trimethylbenzene	11.933	105	1691802	53.72	ug/Kg	93
90)	Pentachloroethane	11.909	167	363110	54.03	ug/Kg	90

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115817.D
Acq On : 23 May 2016 1:10 pm
Operator : ericp
Sample : ICV4602-4,BS Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 23 14:37:25 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

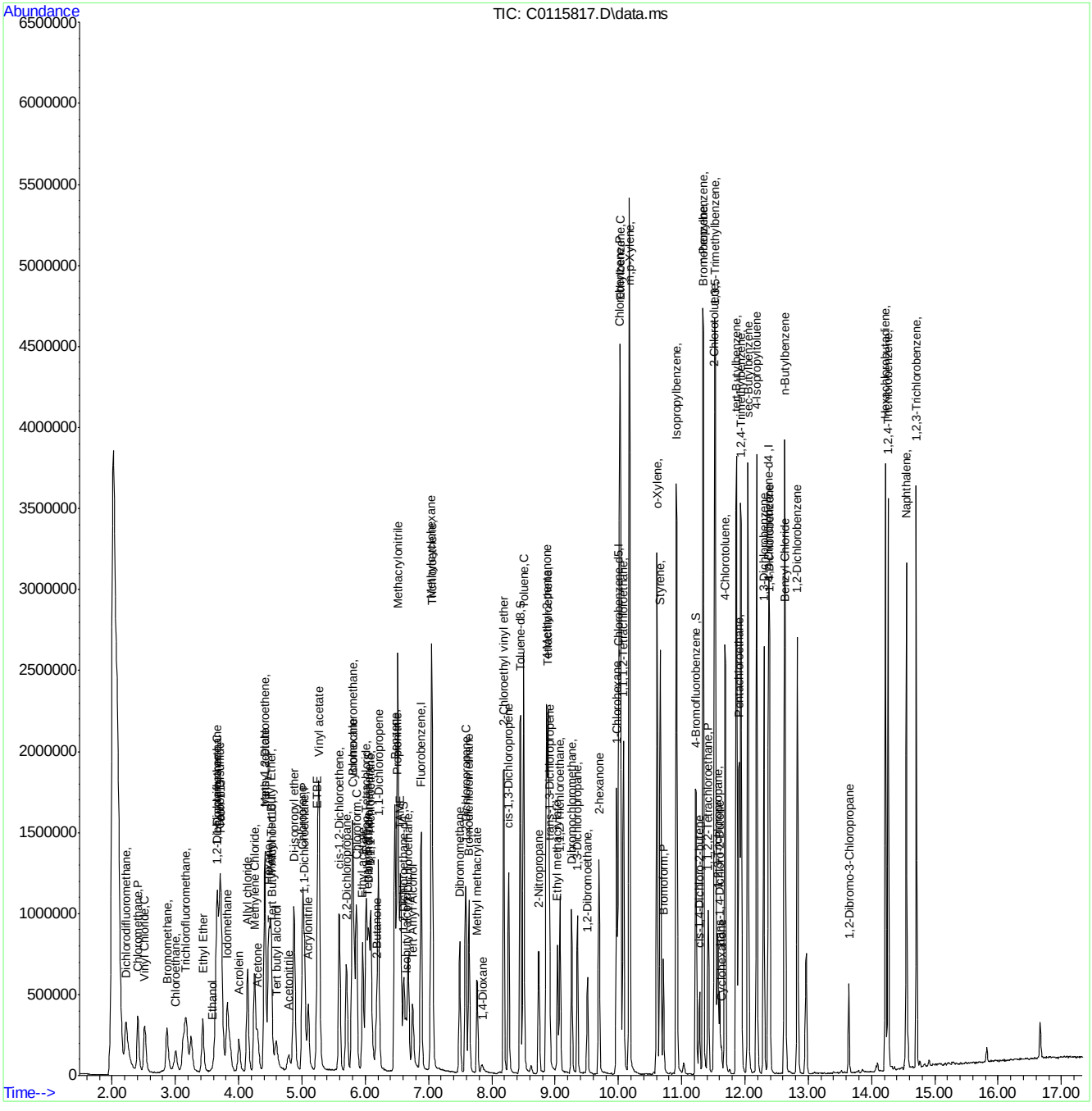
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.049	105	2220609	53.46	ug/Kg	94
92)	4-Isopropyltoluene	12.188	119	1971482	54.53	ug/Kg	96
93)	1,3-Dichlorobenzene	12.298	146	945949	57.13	ug/Kg	94
94)	1,4-Dichlorobenzene	12.389	146	856268	55.73	ug/Kg	93
95)	n-Butylbenzene	12.626	92	995117	55.39	ug/Kg	96
96)	Benzyl Chloride	12.639	126	170783	50.56	ug/Kg#	81
97)	1,2-Dichlorobenzene	12.827	146	983557	55.92	ug/Kg	97
98)	1,2-Dibromo-3-Chloropr...	13.642	75	107428	48.97	ug/Kg	79
99)	Hexachlorobutadiene	14.220	225	563301	57.15	ug/Kg	95
100)	1,2,4-Trichlorobenzene	14.263	180	811506	55.42	ug/Kg	99
101)	Naphthalene	14.549	128	1757097	58.37	ug/Kg	96
102)	1,2,3-Trichlorobenzene	14.707	180	809666	56.58	ug/Kg	96
104)	Ethanol	3.592	45	30916	1189.68	ug/Kg	89
105)	Acrolein	4.006	56	222699	253.62	ug/Kg	98
106)	Tert butyl alcohol	4.596	59	326110	490.16	ug/Kg	98
107)	Isobutyl alcohol	6.646	42	103672	1069.73	ug/Kg	90
108)	Tert Amyl Alcohol	6.750	59	263638	493.76	ug/Kg	96
109)	1,4-Dioxane	7.851	88	70407	1199.60	ug/Kg	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115817.D
Acq On : 23 May 2016 1:10 pm
Operator : ericp
Sample : ICV4602-4,BS Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 23 14:37:25 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration



052316APP9-C-Soil.m Mon May 23 14:39:40 2016 Page: 4

SGS ACCUTEST FA34367

Manual Integration Approval Summary

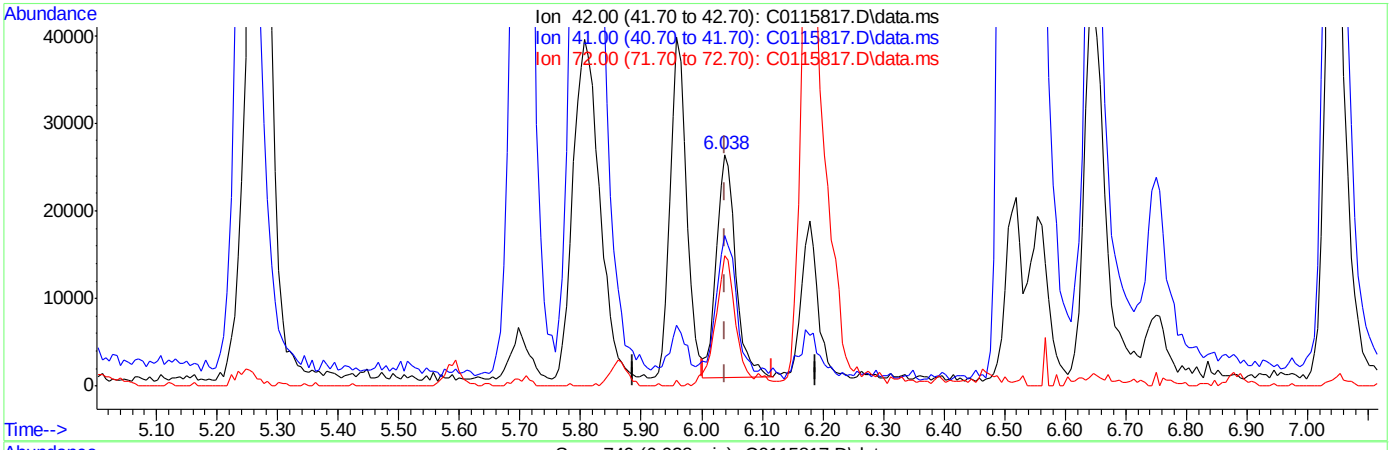
Sample Number:	VC4602-ICV4602	**Method:**	SW846 8260B
Lab FileID:	C0115817.D	**Analyst approved:**	05/24/16 07:39 Eric Parrish
Injection Time:	05/23/16 13:10	**Supervisor approved:**	05/24/16 10:46 Juan Garcia

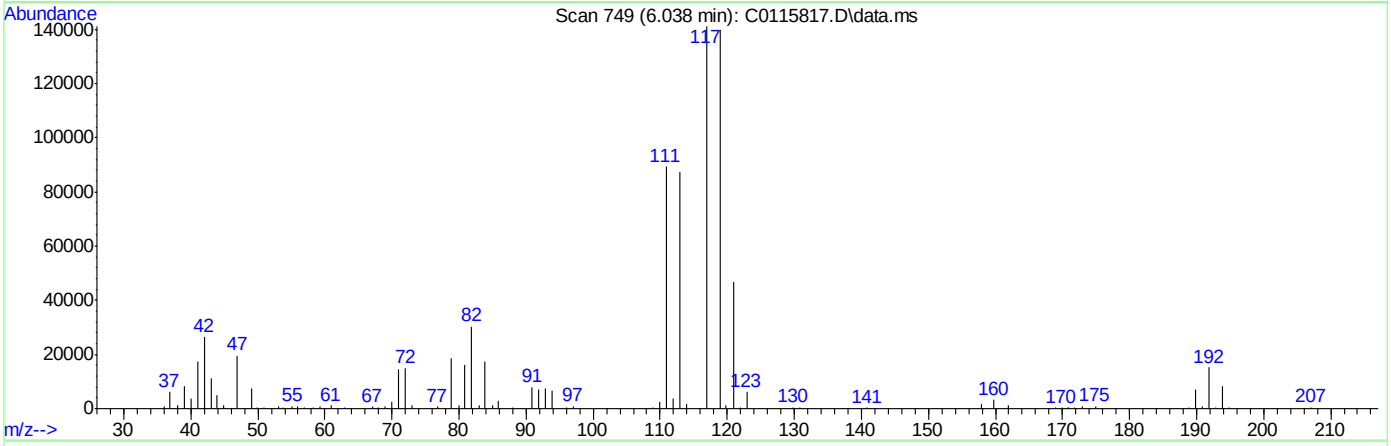
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tetrahydrofuran	109-99-9		6.04	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115817.D
Acq On : 23 May 2016 1:10 pm
Operator : ericp
Sample : ICV4602-4,BS Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 23 14:36:56 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration





TIC: C0115817.D\data.ms

(34) Tetrahydrofuran

6.038min (-0.000) 60.10ug/Kg

response 55695

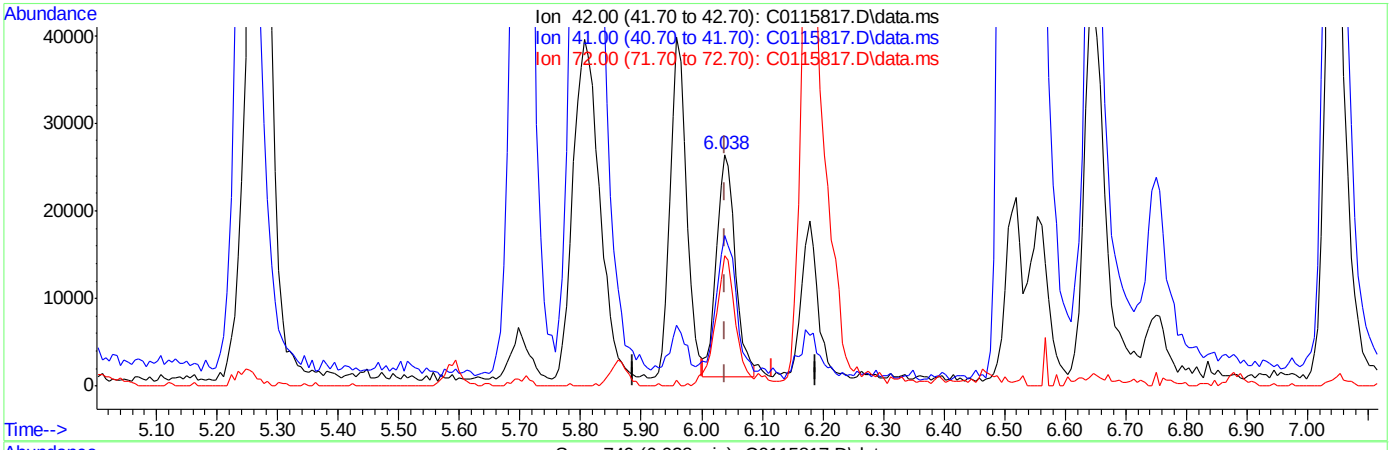
Ion	Exp%	Act%
42.00	100	100
41.00	60.50	59.73
72.00	42.20	56.57
0.00	0.00	0.00

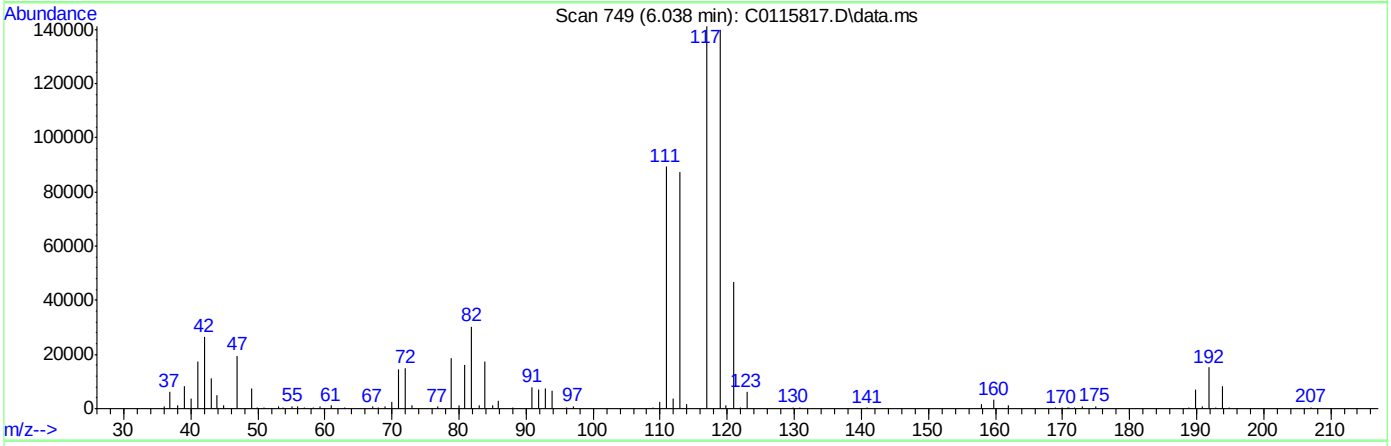
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\052316\
Data File : C0115817.D
Acq On : 23 May 2016 1:10 pm
Operator : ericp
Sample : ICV4602-4,BS Inst : MSVOA5
Misc : ms33941,vc4602,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 23 14:36:56 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration





TIC: C0115817.D\data.ms

(34) Tetrahydrofuran

6.038min (-0.000) 58.91ug/Kg m

response 54592

Ion	Exp%	Act%
42.00	100	100
41.00	60.50	65.13
72.00	42.20	56.42
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/02/16 10:47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116026.D
Acq On : 1 Jun 2016 10:41 am
Operator : ericp
Sample : CC4602-4 Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 01 11:05:58 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.884	96	1151281	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	910366	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	520084	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.517	65	112398	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.056	113	346967	47.50	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.00%			
44) 1,2-Dichloroethane-d4	6.610	65	389433	48.39	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 96.78%			
55) Toluene-d8	8.447	98	1231038	47.39	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 94.78%			
77) 4-Bromofluorobenzene	11.227	174	404877	48.87	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.224	85	726442	55.34	ug/Kg	96
3) Chloromethane	2.412	50	474686	54.19	ug/Kg	98
4) Vinyl Chloride	2.534	62	445973	54.46	ug/Kg	99
5) Bromomethane	2.881	94	254034	54.89	ug/Kg	97
6) Chloroethane	3.020	64	184953	55.48	ug/Kg	90
7) Trichlorofluoromethane	3.179	101	768921	52.12	ug/Kg	97
8) Ethyl Ether	3.440	59	231459	52.24	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.671	67	385779	53.05	ug/Kg	95
10) 1,1-Dichloroethene	3.665	61	592121	53.12	ug/Kg	94
11) Freon 113	3.720	101	382434	51.09	ug/Kg	96
12) Carbon Disulfide	3.714	76	990664	49.94	ug/Kg	94
13) Iodomethane	3.824	142	741873	48.43	ug/Kg	92
14) Allyl chloride	4.146	41	440655	47.31	ug/Kg	90
15) Methylene Chloride	4.255	49	397262	52.94	ug/Kg	94
16) Acetone	4.310	43	414105	283.23	ug/Kg	96
17) Methyl acetate	4.414	43	620460	257.60	ug/Kg	98
18) trans-1,2-Dichloroethene	4.420	61	468597	50.65	ug/Kg	99
19) Hexane	4.481	56	220950	50.78	ug/Kg	93
20) Methyl Tert Butyl Ether	4.511	73	950491	48.52	ug/Kg	97
21) Acetonitrile	4.797	41	172762	565.59	ug/Kg	95
22) Di-isopropyl ether	4.876	45	809657	49.57	ug/Kg	99
23) Chloroprene	5.016	53	643856	46.92	ug/Kg	93
24) 1,1-Dichloroethane	5.046	63	579181	49.76	ug/Kg	97
25) Acrylonitrile	5.107	52	276382	253.07	ug/Kg	97
26) ETBE	5.253	59	968065	47.76	ug/Kg	98
27) Vinyl acetate	5.271	43	1934942	262.27	ug/Kg	97
28) cis-1,2-Dichloroethene	5.594	96	427410	49.38	ug/Kg	99
29) 2,2-Dichloropropane	5.703	77	434455	47.71	ug/Kg	98
30) Bromochloromethane	5.801	128	200149	47.94	ug/Kg	96
31) Cyclohexane	5.807	84	536121	48.78	ug/Kg	98
32) Chloroform	5.861	83	712584	48.08	ug/Kg	97
33) Ethyl acetate	5.959	43	788486	248.17	ug/Kg	98
34) Tetrahydrofuran	6.038	42	43240	50.23	ug/Kg	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116026.D
Acq On : 1 Jun 2016 10:41 am
Operator : ericp
Sample : CC4602-4 Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 01 11:05:58 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36)	Carbon Tetrachloride	6.020	117	778991	48.58	ug/Kg	97
37)	1,1,1-Trichloroethane	6.087	97	694048	47.80	ug/Kg	92
38)	2-Butanone	6.178	43	475935	260.99	ug/Kg	96
39)	1,1-Dichloropropene	6.208	75	496468	49.38	ug/Kg	92
40)	Propionitrile	6.500	54	249588	537.24	ug/Kg	93
41)	Methacrylonitrile	6.519	41	1103356	515.64	ug/Kg	97
42)	Benzene	6.470	78	1267272	51.37	ug/Kg	96
43)	TAME	6.555	73	869111	46.59	ug/Kg	96
45)	1,2-Dichloroethane	6.683	62	506579	50.23	ug/Kg	97
46)	Trichloroethene	7.054	95	386476	49.50	ug/Kg	96
47)	Methylcyclohexane	7.048	83	593358	49.66	ug/Kg	99
48)	Dibromomethane	7.492	93	220392	47.87	ug/Kg	96
49)	1,2-Dichloropropane	7.589	63	266195	43.88	ug/Kg	93
50)	Bromodichloromethane	7.644	83	543200	49.40	ug/Kg	96
51)	Methyl methacrylate	7.772	41	179958	48.64	ug/Kg	87
52)	2-Chloroethyl vinyl ether	8.191	63	648248	276.91	ug/Kg	96
53)	cis-1,3-Dichloropropene	8.271	75	529447	53.04	ug/Kg	92
56)	Toluene	8.502	91	1403386	49.14	ug/Kg	96
57)	2-Nitropropane	8.745	41	371349	213.95	ug/Kg	89
58)	4-Methyl-2-pentanone	8.867	43	1000753	236.10	ug/Kg	98
59)	trans-1,3-Dichloropropene	8.915	75	385288	52.05	ug/Kg	96
60)	Tetrachloroethene	8.891	166	425485	43.20	ug/Kg	97
61)	Ethyl methacrylate	9.037	69	286611	44.02	ug/Kg	95
62)	1,1,2-Trichloroethane	9.080	83	206840	48.94	ug/Kg	94
63)	Dibromochloromethane	9.262	129	395734	48.60	ug/Kg	94
64)	1,3-Dichloropropane	9.353	76	421050	50.98	ug/Kg	94
65)	1,2-Dibromoethane	9.512	107	286424	50.87	ug/Kg	96
66)	2-hexanone	9.694	43	639771	233.67	ug/Kg	98
67)	1-Chlorohexane	9.974	91	432628	43.90	ug/Kg	93
68)	Ethylbenzene	10.029	91	1452005	48.43	ug/Kg	98
69)	Chlorobenzene	10.023	112	850338	49.33	ug/Kg	97
70)	1,1,1,2-Tetrachloroethane	10.077	131	439270	44.86	ug/Kg	98
71)	m,p-Xylene	10.175	91	2292787	90.64	ug/Kg	95
72)	o-Xylene	10.607	91	1440231	47.96	ug/Kg	97
73)	Styrene	10.661	104	876346	46.15	ug/Kg	98
74)	Bromoform	10.710	173	209811	43.85	ug/Kg	96
75)	Isopropylbenzene	10.917	105	1752191	47.35	ug/Kg	98
78)	cis-1,4-Dichloro-2-butene	11.282	53	77701	50.14	ug/Kg	91
79)	n-Propylbenzene	11.337	91	1675673	48.50	ug/Kg	97
80)	Bromobenzene	11.337	156	401108	48.68	ug/Kg	94
81)	1,1,2,2-Tetrachloroethane	11.416	83	325653	47.28	ug/Kg	98
82)	1,3,5-Trimethylbenzene	11.531	105	1456987	47.74	ug/Kg	98
83)	2-Chlorotoluene	11.519	91	1315041	48.42	ug/Kg	98
84)	trans-1,4-Dichloro-2-B...	11.598	53	72339	49.46	ug/Kg	80
85)	1,2,3-Trichloropropane	11.568	110	103214	45.57	ug/Kg	97
86)	Cyclohexanone	11.623	55	70624	248.62	ug/Kg	97
87)	4-Chlorotoluene	11.683	91	1116707	49.77	ug/Kg	99
88)	tert-Butylbenzene	11.866	91	1015899	48.06	ug/Kg	92
89)	1,2,4-Trimethylbenzene	11.933	105	1399350	47.19	ug/Kg	97
90)	Pentachloroethane	11.909	167	308384	49.33	ug/Kg	90

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116026.D
Acq On : 1 Jun 2016 10:41 am
Operator : ericp
Sample : CC4602-4 Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 01 11:05:58 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	sec-Butylbenzene	12.048	105	1812098	46.15	ug/Kg	96
92)	4-Isopropyltoluene	12.182	119	1610243	47.23	ug/Kg	99
93)	1,3-Dichlorobenzene	12.298	146	750203	48.15	ug/Kg	97
94)	1,4-Dichlorobenzene	12.389	146	688647	48.18	ug/Kg	94
95)	n-Butylbenzene	12.626	92	769667	45.34	ug/Kg	92
96)	Benzyl Chloride	12.639	126	142333	45.29	ug/Kg#	68
97)	1,2-Dichlorobenzene	12.827	146	781103	47.16	ug/Kg	97
98)	1,2-Dibromo-3-Chloropr...	13.642	75	88320	43.28	ug/Kg	87
99)	Hexachlorobutadiene	14.220	225	376269	41.04	ug/Kg	97
100)	1,2,4-Trichlorobenzene	14.263	180	572313	41.12	ug/Kg	98
101)	Naphthalene	14.549	128	1299423	45.28	ug/Kg	97
102)	1,2,3-Trichlorobenzene	14.707	180	587527	43.29	ug/Kg	97
104)	Ethanol	3.592	45	38778m	1642.77	ug/Kg	
105)	Acrolein	4.012	56	191380	239.94	ug/Kg	100
106)	Tert butyl alcohol	4.596	59	296531	490.67	ug/Kg	94
107)	Isobutyl alcohol	6.646	42	91207	1036.06	ug/Kg	94
108)	Tert Amyl Alcohol	6.750	59	226068	466.11	ug/Kg	96
109)	1,4-Dioxane	7.839	88	62428	1175.27	ug/Kg	92

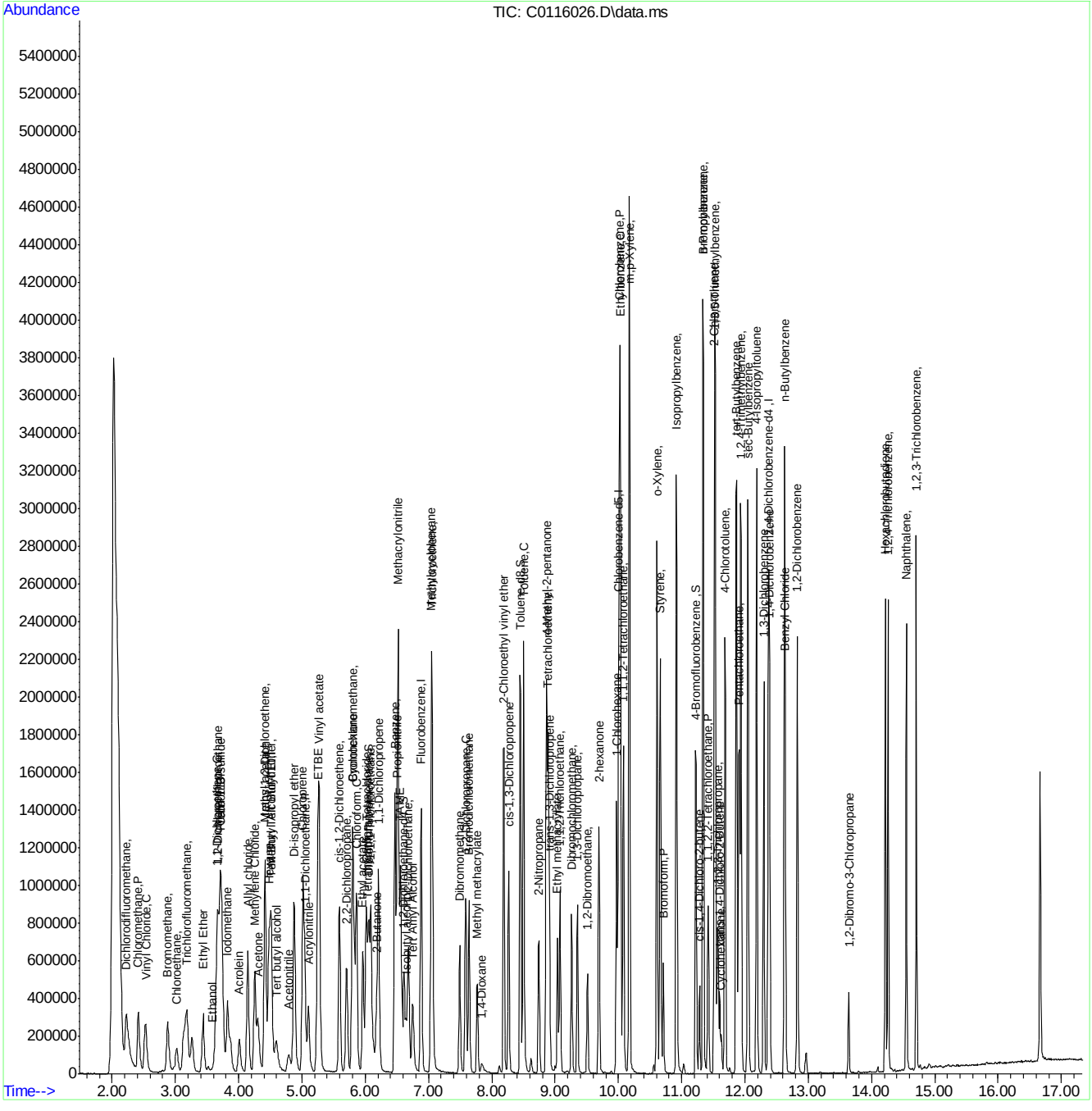
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116026.D
Acq On : 1 Jun 2016 10:41 am
Operator : ericp
Sample : CC4602-4 Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 01 11:05:58 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration



052316APP9-C-Soil.m Thu Jun 02 09:36:19 2016 Page: 4

SGS ACCUTEST FA34367

Manual Integration Approval Summary

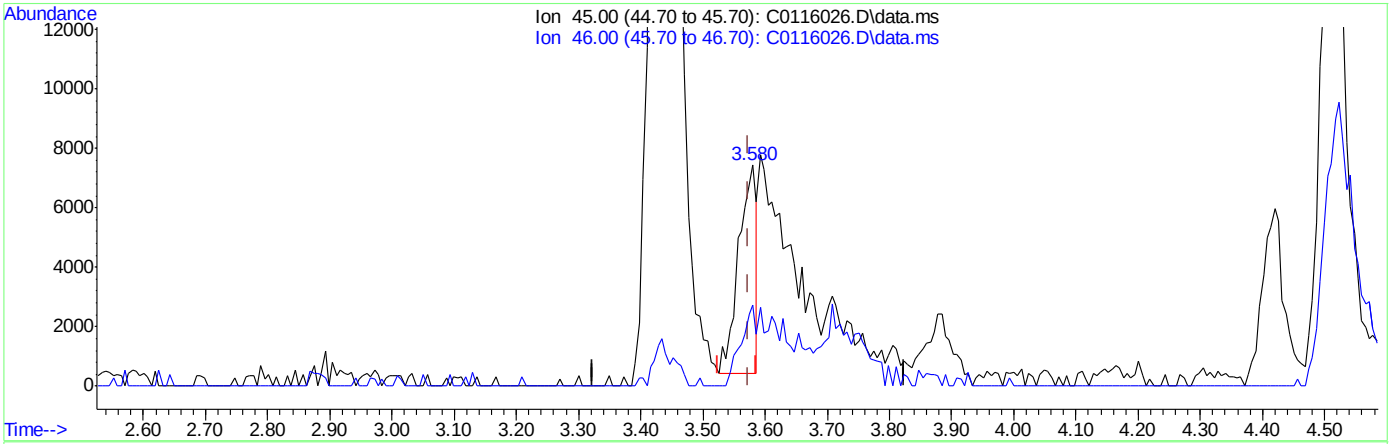
Sample Number:	VC4610-CC4602	**Method:**	SW846 8260B
Lab FileID:	C0116026.D	**Analyst approved:**	06/01/16 14:00 Eric Parrish
Injection Time:	06/01/16 10:41	**Supervisor approved:**	06/02/16 10:47 Juan Garcia

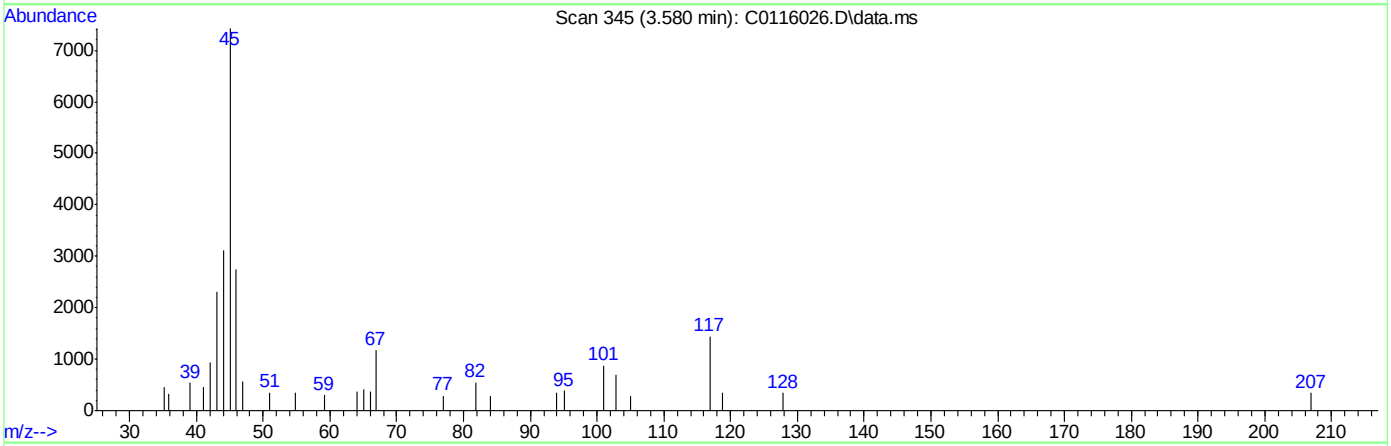
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.59	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116026.D
Acq On : 1 Jun 2016 10:41 am
Operator : ericp
Sample : CC4602-4 Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 01 10:57:39 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration





TIC: C0116026.D\data.ms

(104) Ethanol

3.580min (+0.006) 602.79ug/Kg

response 14229

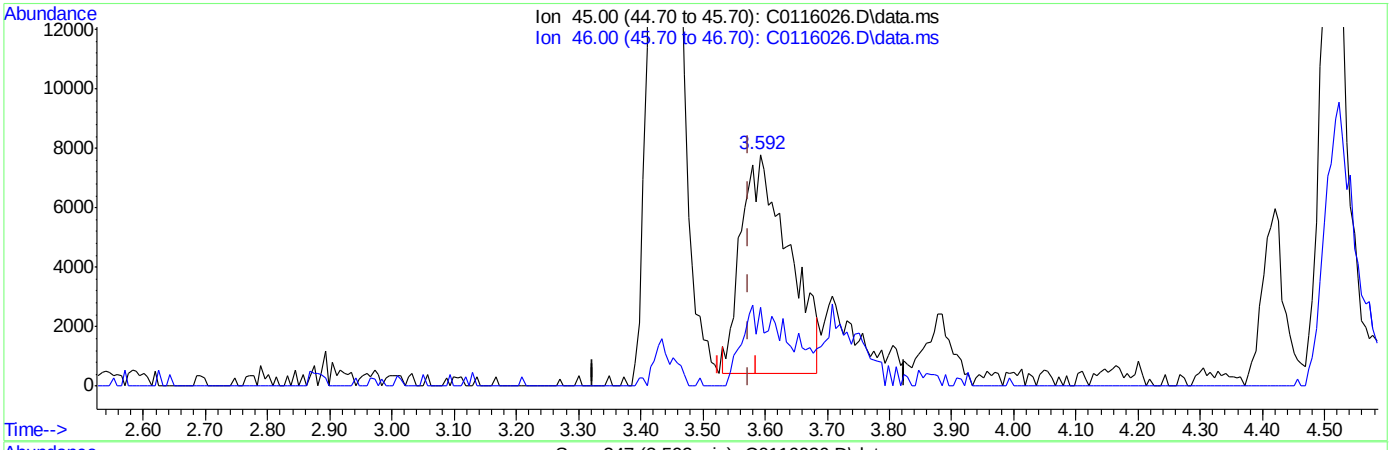
Ion	Exp%	Act%
45.00	100	100
46.00	30.00	39.12
0.00	0.00	0.00
0.00	0.00	0.00

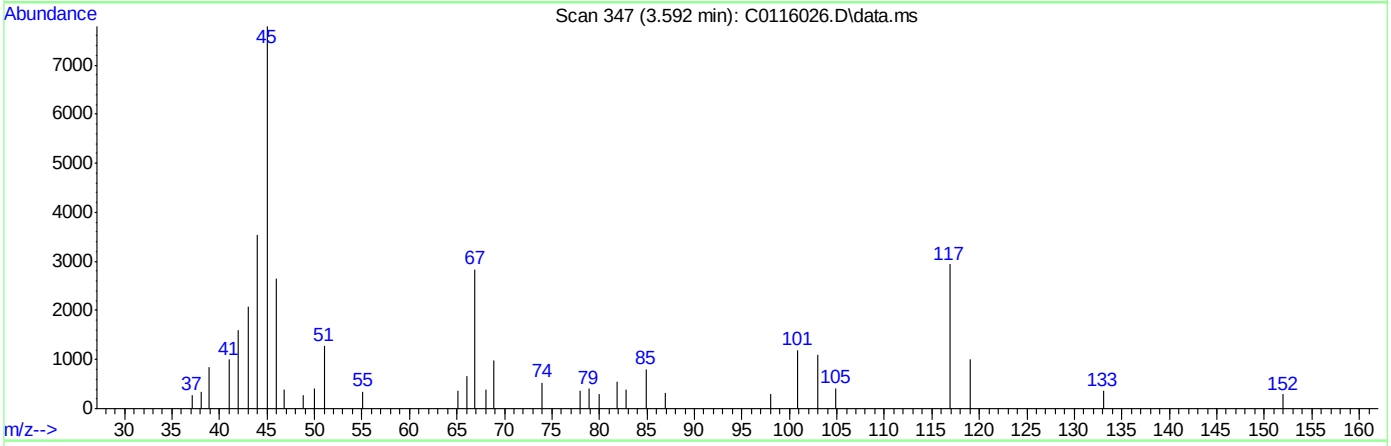
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116026.D
Acq On : 1 Jun 2016 10:41 am
Operator : ericp
Sample : CC4602-4 Inst : MSVOA5
Misc : ms34030,vc4610,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 01 10:57:39 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration





(104) Ethanol

3.592min (+0.018) 1642.77ug/Kg m

response 38778

Ion	Exp%	Act%
45.00	100	100
46.00	30.00	34.08
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116033.D
Acq On : 1 Jun 2016 2:39 pm
Operator : ericp
Sample : ECC4602-4 Inst : MSVOA5
Misc : ms34045,vc4610,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 01 14:57:49 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	6.883	96	993335	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.004	117	775409	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.371	152	434943	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.523	65	106624	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.050	113	311189	49.38	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.76%			
44) 1,2-Dichloroethane-d4	6.610	65	335345	48.29	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 96.58%			
55) Toluene-d8	8.447	98	1068869	48.30	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 96.60%			
77) 4-Bromofluorobenzene	11.227	174	341151	49.24	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 98.48%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.223	85	700135	62.25	ug/Kg	97
3) Chloromethane	2.412	50	457066	60.85	ug/Kg	98
4) Vinyl Chloride	2.522	62	431439	61.28	ug/Kg	98
5) Bromomethane	2.874	94	244754	62.06	ug/Kg	93
6) Chloroethane	3.008	64	178352	63.15	ug/Kg	96
7) Trichlorofluoromethane	3.172	101	748571	59.85	ug/Kg	98
8) Ethyl Ether	3.440	59	213189	56.07	ug/Kg	99
9) 1,2-Dichlorotrifluoroe...	3.659	67	369119	59.41	ug/Kg	93
10) 1,1-Dichloroethene	3.659	61	581724	61.15	ug/Kg	97
11) Freon 113	3.720	101	371030	58.02	ug/Kg	94
12) Carbon Disulfide	3.714	76	966565	57.12	ug/Kg	95
13) Iodomethane	3.823	142	709121	54.02	ug/Kg	91
14) Allyl chloride	4.140	41	424500	53.28	ug/Kg	91
15) Methylene Chloride	4.255	49	416842	65.59	ug/Kg	95
16) Acetone	4.304	43	402062	320.33	ug/Kg	92
17) Methyl acetate	4.414	43	594048	287.29	ug/Kg	97
18) trans-1,2-Dichloroethene	4.414	61	455716	57.66	ug/Kg	98
19) Hexane	4.474	56	220618	59.21	ug/Kg	89
20) Methyl Tert Butyl Ether	4.511	73	891025	53.00	ug/Kg	95
21) Acetonitrile	4.791	41	162561	618.13	ug/Kg	96
22) Di-isopropyl ether	4.876	45	761613	54.35	ug/Kg	99
23) Chloroprene	5.016	53	609776	51.83	ug/Kg	95
24) 1,1-Dichloroethane	5.046	63	554848	55.63	ug/Kg	100
25) Acrylonitrile	5.101	52	262079	278.71	ug/Kg	98
26) ETBE	5.247	59	920153	52.99	ug/Kg	98
27) Vinyl acetate	5.271	43	1483294	230.85	ug/Kg	97
28) cis-1,2-Dichloroethene	5.594	96	410233	55.30	ug/Kg	96
29) 2,2-Dichloropropane	5.703	77	402936	51.69	ug/Kg	96
30) Bromochloromethane	5.801	128	184257	51.33	ug/Kg	97
31) Cyclohexane	5.807	84	515448	54.69	ug/Kg	96
32) Chloroform	5.861	83	700520	55.26	ug/Kg	99
33) Ethyl acetate	5.959	43	679562	247.89	ug/Kg	100
34) Tetrahydrofuran	6.038	42	39362	53.00	ug/Kg	89

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116033.D
Acq On : 1 Jun 2016 2:39 pm
Operator : ericp
Sample : ECC4602-4 Inst : MSVOA5
Misc : ms34045,vc4610,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 01 14:57:49 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
36) Carbon Tetrachloride	6.013	117	751175	54.68	ug/Kg	98
37) 1,1,1-Trichloroethane	6.087	97	660901	53.22	ug/Kg	92
38) 2-Butanone	6.178	43	435377	276.71	ug/Kg	90
39) 1,1-Dichloropropene	6.208	75	462573	53.55	ug/Kg	96
40) Propionitrile	6.500	54	232527	581.31	ug/Kg	84
41) Methacrylonitrile	6.512	41	999742	543.02	ug/Kg	98
42) Benzene	6.470	78	1171169	55.28	ug/Kg	97
43) TAME	6.555	73	800410	49.88	ug/Kg	95
45) 1,2-Dichloroethane	6.677	62	462708	53.36	ug/Kg	97
46) Trichloroethene	7.054	95	345346	51.27	ug/Kg	92
47) Methylcyclohexane	7.042	83	558426	54.47	ug/Kg	99
48) Dibromomethane	7.492	93	219799	55.33	ug/Kg	93
49) 1,2-Dichloropropane	7.583	63	283781	54.22	ug/Kg	89
50) Bromodichloromethane	7.638	83	493015	51.97	ug/Kg	97
51) Methyl methacrylate	7.766	41	161030	50.44	ug/Kg	94
52) 2-Chloroethyl vinyl ether	8.185	63	513785	254.37	ug/Kg	97
53) cis-1,3-Dichloropropene	8.264	75	440028	51.09	ug/Kg	94
56) Toluene	8.502	91	1263349	52.14	ug/Kg	98
57) 2-Nitropropane	8.739	41	333483	225.58	ug/Kg	93
58) 4-Methyl-2-pentanone	8.861	43	930989	259.83	ug/Kg	98
59) trans-1,3-Dichloropropene	8.909	75	313622	49.74	ug/Kg	95
60) Tetrachloroethene	8.891	166	381389	45.46	ug/Kg	97
61) Ethyl methacrylate	9.037	69	242767	43.78	ug/Kg	97
62) 1,1,2-Trichloroethane	9.074	83	178647	49.62	ug/Kg	94
63) Dibromochloromethane	9.262	129	335630	48.40	ug/Kg	91
64) 1,3-Dichloropropane	9.353	76	350409	49.81	ug/Kg	96
65) 1,2-Dibromoethane	9.512	107	237354	49.49	ug/Kg	93
66) 2-hexanone	9.688	43	563703	241.73	ug/Kg	99
67) 1-Chlorohexane	9.968	91	393149	46.84	ug/Kg	95
68) Ethylbenzene	10.029	91	1335811	52.71	ug/Kg	98
69) Chlorobenzene	10.023	112	742688	50.59	ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.077	131	405775	48.65	ug/Kg	95
71) m,p-Xylene	10.169	91	2099431	98.50	ug/Kg	99
72) o-Xylene	10.607	91	1331106	52.48	ug/Kg	97
73) Styrene	10.661	104	773314	47.81	ug/Kg	97
74) Bromoform	10.710	173	184259	45.21	ug/Kg	94
75) Isopropylbenzene	10.917	105	1615562	51.69	ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.282	53	59687	46.05	ug/Kg	80
79) n-Propylbenzene	11.337	91	1526338	53.35	ug/Kg	97
80) Bromobenzene	11.343	156	347861	50.49	ug/Kg	97
81) 1,1,2,2-Tetrachloroethane	11.416	83	293138	50.89	ug/Kg	100
82) 1,3,5-Trimethylbenzene	11.531	105	1326616	52.44	ug/Kg	98
83) 2-Chlorotoluene	11.513	91	1192308	52.89	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.598	53	56888	46.51	ug/Kg	93
85) 1,2,3-Trichloropropane	11.568	110	91867	48.50	ug/Kg	96
86) Cyclohexanone	11.623	55	60529	254.90	ug/Kg	90
87) 4-Chlorotoluene	11.683	91	979740	52.41	ug/Kg	98
88) tert-Butylbenzene	11.860	91	939442	53.51	ug/Kg	96
89) 1,2,4-Trimethylbenzene	11.933	105	1273654	51.80	ug/Kg	96
90) Pentachloroethane	11.908	167	268904	51.43	ug/Kg	93

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116033.D
Acq On : 1 Jun 2016 2:39 pm
Operator : ericp
Sample : ECC4602-4 Inst : MSVOA5
Misc : ms34045,vc4610,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 01 14:57:49 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) sec-Butylbenzene	12.042	105	1670938	51.48	ug/Kg	99
92) 4-Isopropyltoluene	12.182	119	1449923	51.23	ug/Kg	100
93) 1,3-Dichlorobenzene	12.298	146	653239	50.27	ug/Kg	95
94) 1,4-Dichlorobenzene	12.389	146	593626	49.66	ug/Kg	94
95) n-Butylbenzene	12.626	92	691917	49.02	ug/Kg	93
96) Benzyl Chloride	12.639	126	117738	44.80	ug/Kg#	65
97) 1,2-Dichlorobenzene	12.827	146	699035	50.72	ug/Kg	99
98) 1,2-Dibromo-3-Chloropr...	13.642	75	78279	45.87	ug/Kg	86
99) Hexachlorobutadiene	14.220	225	347580	45.33	ug/Kg	95
100) 1,2,4-Trichlorobenzene	14.263	180	503668	43.42	ug/Kg	96
101) Naphthalene	14.549	128	1155227	48.42	ug/Kg	97
102) 1,2,3-Trichlorobenzene	14.707	180	530021	46.94	ug/Kg	98
104) Ethanol	3.598	45	32723	1461.33	ug/Kg	79
105) Acrolein	4.006	56	184632	244.02	ug/Kg	96
106) Tert butyl alcohol	4.596	59	300225	523.69	ug/Kg	100
107) Isobutyl alcohol	6.646	42	90979	1089.43	ug/Kg	92
108) Tert Amyl Alcohol	6.750	59	216372	470.28	ug/Kg	93
109) 1,4-Dioxane	7.845	88	60064	1189.45	ug/Kg	96

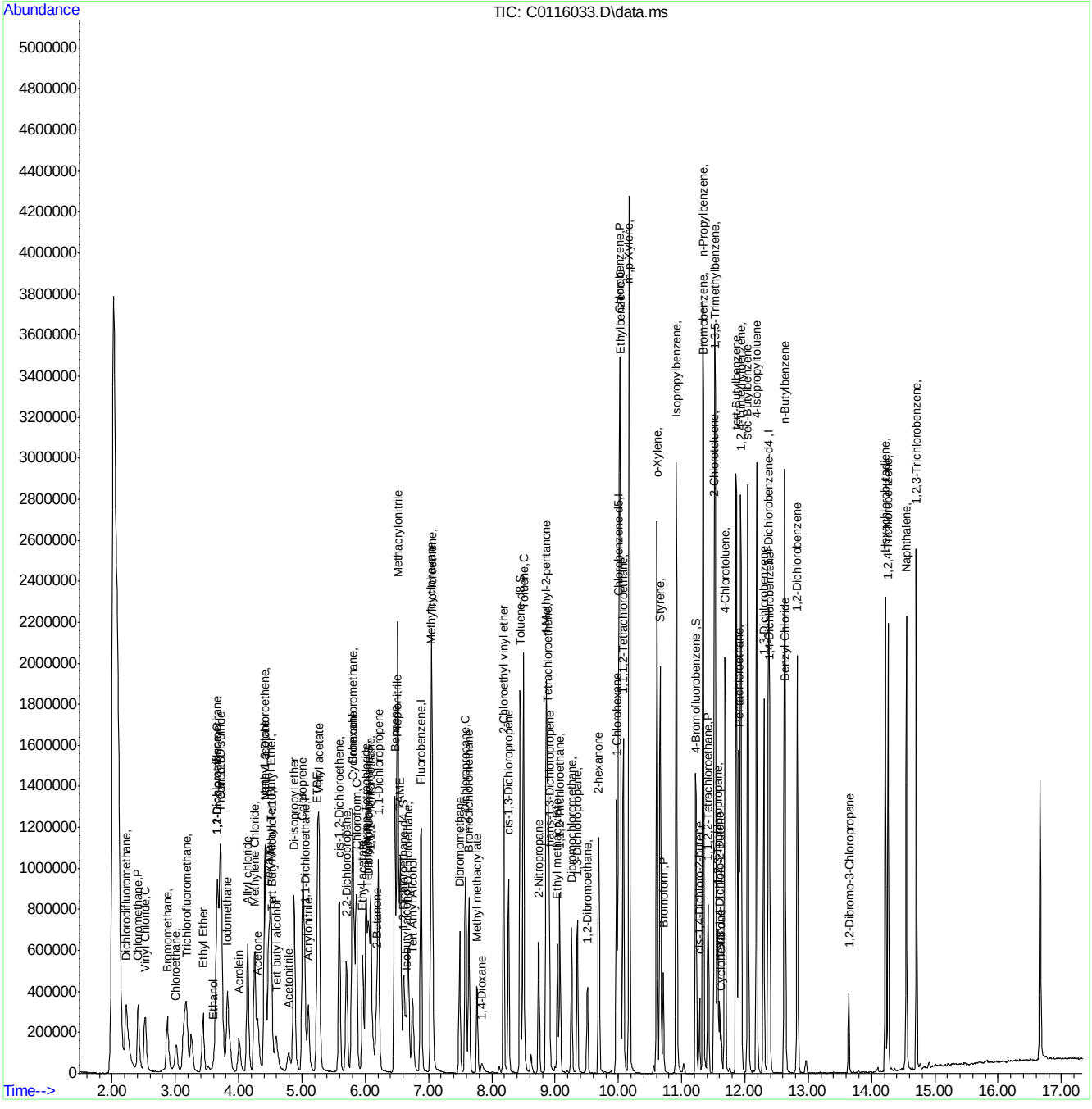
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\DATA\060116\
Data File : C0116033.D
Acq On : 1 Jun 2016 2:39 pm
Operator : ericp
Sample : ECC4602-4 Inst : MSVOA5
Misc : ms34045,vc4610,5.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 01 14:57:49 2016
Quant Method : C:\msdchem\2\METHODS\052316APP9-C-Soil.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon May 23 12:19:56 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:42:05 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1087604	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	856230	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	460823	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	71149	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	276884	50.81	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.62%			
46) 1,2-Dichloroethane-d4	7.476	65	325931	51.16	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.32%			
57) Toluene-d8	9.301	98	1123807	50.96	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.92%			
79) 4-Bromofluorobenzene	12.051	95	433037	51.54	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.08%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	6212	1.52	ug/L	82
3) Chloromethane	2.877	50	11206	2.09	ug/L	93
4) Vinyl Chloride	3.029	62	9492	1.55	ug/L	88
5) 1,3-Butadiene	3.053	54	4333	31.01	ug/L #	59
6) Bromomethane	3.449	94	11394	2.76	ug/L	79
7) Chloroethane	3.625	64	5265	1.57	ug/L	90
8) Trichlorofluoromethane	3.801	101	10984m	1.41	ug/L	
9) Ethyl Ether	4.118	59	5899	1.35	ug/L #	80
10) 1,2-Dichlorotrifluoroe...	4.361	67	8526	1.28	ug/L	94
11) 1,1-Dichloroethene	4.404	61	10834	1.37	ug/L	95
12) Freon 113	4.471	101	7079	1.29	ug/L	91
13) Carbon Disulfide	4.483	76	27124	1.54	ug/L	94
14) Iodomethane	4.586	142	13041	1.49	ug/L	79
15) Allyl chloride	4.921	41	7520	1.14	ug/L	88
16) Methylene Chloride	5.049	49	15788	2.12	ug/L	90
17) Acetone	5.091	58	3771	11.29	ug/L #	82
18) Methyl acetate	5.213	74	3038	4.83	ug/L #	60
19) trans-1,2-Dichloroethene	5.231	61	10516	1.43	ug/L	95
20) Hexane	5.304	56	5969	1.16	ug/L #	70
21) Methyl Tert Butyl Ether	5.341	73	17947	1.13	ug/L	91
22) Acetonitrile	5.614	40	5056	25.07	ug/L	93
23) Di-isopropyl ether	5.712	45	20025	1.13	ug/L	93
24) Chloroprene	5.882	53	7877	1.17	ug/L	85
25) 1,1-Dichloroethane	5.894	63	14535	1.44	ug/L	96
26) Acrylonitrile	5.943	53	5060	3.82	ug/L	90
27) ETBE	6.113	59	18840	1.04	ug/L	92
28) Vinyl acetate	6.119	43	44392	5.46	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	8546	1.35	ug/L	86
30) 2,2-Dichloropropane	6.612	77	10730	1.29	ug/L	90
31) Bromochloromethane	6.679	128	3514	1.17	ug/L #	76
32) Cyclohexane	6.740	56	9448	1.01	ug/L #	82
33) Chloroform	6.740	83	15910	1.43	ug/L	94
34) Ethyl acetate	6.819	43	16106	5.34	ug/L	97

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:42:05 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	1551	1.70 ug/L	82
37) Carbon Tetrachloride	6.935	117	9933m	1.17 ug/L	
38) 1,1,1-Trichloroethane	6.989	97	12727	1.30 ug/L	90
39) 2-Butanone	7.044	43	8918	6.13 ug/L	73
40) 1,1-Dichloropropene	7.105	75	8847	1.16 ug/L	94
41) tert-Butyl Formate	7.184	59	34693	9.61 ug/L #	69
42) Propionitrile	7.342	54	5733	11.84 ug/L #	69
43) Methacrylonitrile	7.366	41	29122	14.43 ug/L	95
44) Benzene	7.360	78	31263	1.25 ug/L	99
45) TAME	7.433	73	17304	1.04 ug/L	79
47) 1,2-Dichloroethane	7.549	62	11782	1.45 ug/L	98
48) Trichloroethene	7.938	95	8346	1.35 ug/L	89
49) Methylcyclohexane	7.957	83	10635	1.01 ug/L	87
50) Dibromomethane	8.364	93	3859	1.13 ug/L	93
51) 1,2-Dichloropropane	8.449	63	7758	1.28 ug/L	90
52) Bromodichloromethane	8.498	83	9238	1.15 ug/L #	91
53) Methyl methacrylate	8.614	41	2108	0.72 ug/L #	67
55) cis-1,3-Dichloropropene	9.112	75	8350	0.92 ug/L	96
58) Toluene	9.356	91	41011	1.54 ug/L	96
59) 2-Nitropropane	9.557	41	4744	4.94 ug/L #	75
60) 4-Methyl-2-pentanone	9.678	43	16386	4.13 ug/L	91
61) trans-1,3-Dichloropropene	9.745	75	7499	0.96 ug/L	86
62) Tetrachloroethene	9.757	166	7883	1.23 ug/L	90
63) Ethyl methacrylate	9.849	69	3238	0.57 ug/L	87
64) 1,1,2-Trichloroethane	9.909	83	4570	1.07 ug/L	83
65) Dibromochloromethane	10.104	129	6042	1.07 ug/L	97
66) 1,3-Dichloropropane	10.189	76	10362	1.18 ug/L	89
67) 1,2-Dibromoethane	10.372	107	5404	1.12 ug/L	85
68) 2-hexanone	10.499	43	9159	3.58 ug/L	77
69) 1-Chlorohexane	10.798	91	6860	0.90 ug/L	86
70) Ethylbenzene	10.865	91	40532	1.26 ug/L	96
71) Chlorobenzene	10.865	112	26110	1.44 ug/L	90
72) 1,1,1,2-Tetrachloroethane	10.913	131	6758	1.16 ug/L #	77
73) m,p-Xylene	10.998	91	53788	2.15 ug/L	96
74) o-Xylene	11.442	91	23243	1.01 ug/L	96
75) Styrene	11.491	104	15345	0.87 ug/L	95
76) Bromoform	11.552	173	3281	0.91 ug/L	92
77) Isopropylbenzene	11.747	105	25346	0.87 ug/L	89
80) cis-1,4-Dichloro-2-butene	12.099	53	1263	0.90 ug/L #	34
81) n-Propylbenzene	12.160	91	36834	1.03 ug/L	98
82) Bromobenzene	12.185	156	9380	1.22 ug/L	88
83) 1,1,2,2-Tetrachloroethane	12.221	83	6314	1.01 ug/L	84
84) 1,3,5-Trimethylbenzene	12.349	105	23975	0.91 ug/L	96
85) 2-Chlorotoluene	12.355	91	28348	1.14 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.416	53	748	0.56 ug/L #	11
87) 1,2,3-Trichloropropane	12.391	110	1413	0.86 ug/L	87
88) Cyclohexanone	12.452	55	861	6.15 ug/L #	59
89) 4-Chlorotoluene	12.525	91	24495	1.08 ug/L	96
90) a-Methyl Styrene	12.610	118	9033	0.72 ug/L #	90
91) tert-Butylbenzene	12.684	91	14689	1.04 ug/L	96

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:42:05 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.757	105	23587	0.90	ug/L	94
93) Pentachloroethane	12.744	167	4839	1.07	ug/L #	67
94) sec-Butylbenzene	12.866	105	28573	0.90	ug/L	99
95) 4-Isopropyltoluene	13.000	119	27991	1.16	ug/L	97
96) 1,3-Dichlorobenzene	13.140	146	15335	1.13	ug/L	91
97) 1,4-Dichlorobenzene	13.225	146	19394	1.37	ug/L	86
98) n-Butylbenzene	13.432	92	12388	0.90	ug/L	92
99) Benzyl Chloride	13.456	126	1631	0.75	ug/L #	70
100) 1,2-Dichlorobenzene	13.651	146	14912	1.18	ug/L	92
101) 1,2-Dibromo-3-Chloropr...	14.387	75	634	0.80	ug/L #	73
102) Hexachlorobutadiene	14.928	225	7922	1.52	ug/L	96
103) 1,2,4-Trichlorobenzene	14.977	180	9305	1.10	ug/L	94
104) Naphthalene	15.269	128	10253	0.83	ug/L	92
105) 1,2,3-Trichlorobenzene	15.433	180	8376	1.19	ug/L	87
108) acrolein	4.769	56	2700	4.02	ug/L	83
109) Tert Butyl Alcohol	5.371	59	5021	13.59	ug/L #	79
110) tert Amyl alcohol	7.579	59	2566	8.68	ug/L #	79
111) Isobutyl alcohol	7.458	42	2135	15.87	ug/L #	67
112) 1,4-Dioxane	8.674	88	565	13.59	ug/L #	27
113) 3,3-Dimethyl-1-butanol	10.439	57	10170	31.47	ug/L	88

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

7.6.11

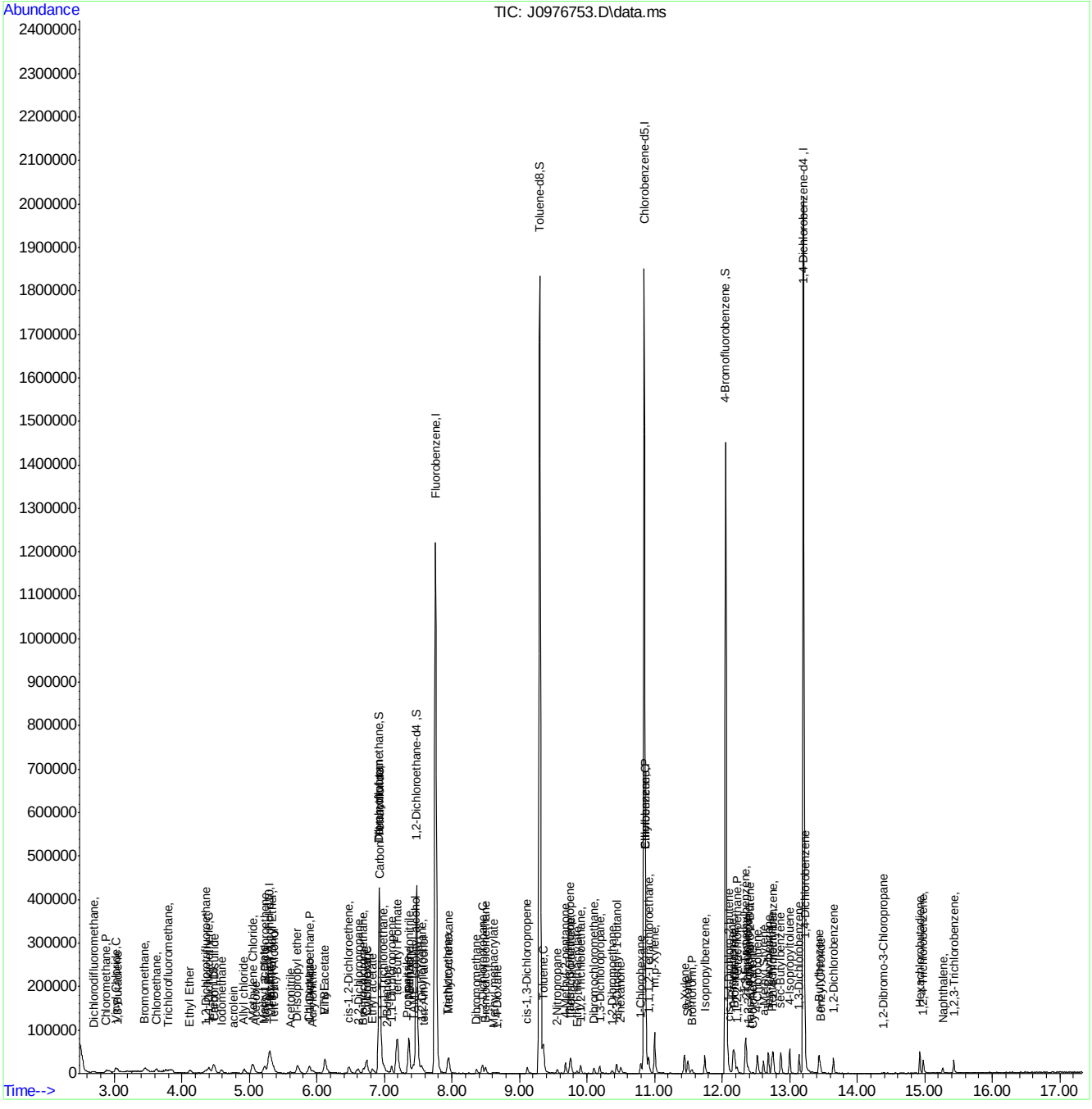
7

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:42:05 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



MSJ052316a.M Wed May 25 08:16:05 2016 Page: 4

SGS ACCUTEST FA34367

Manual Integration Approval Summary

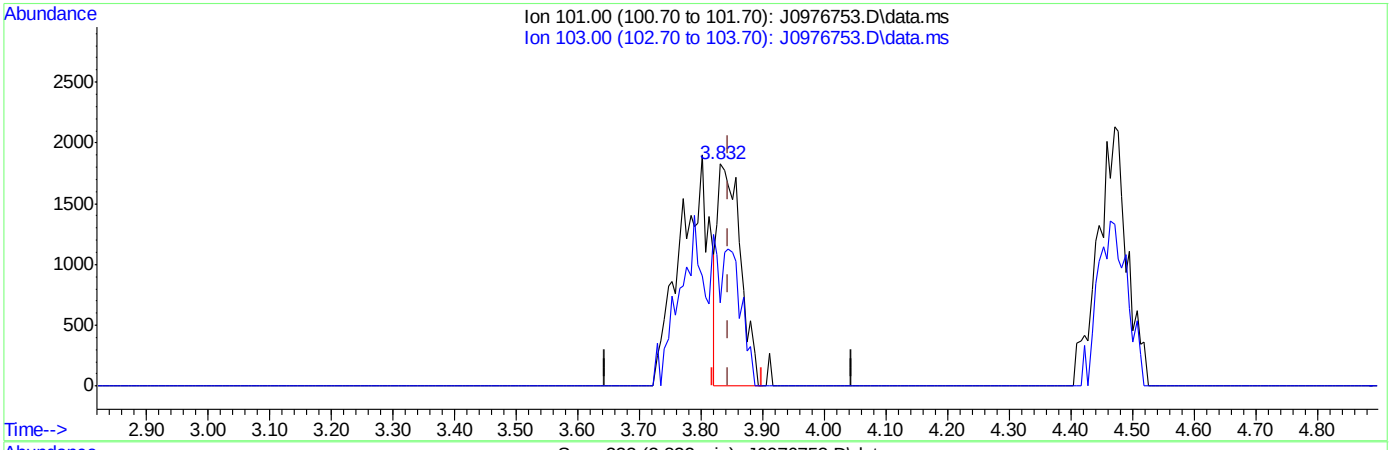
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976753.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 10:33	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

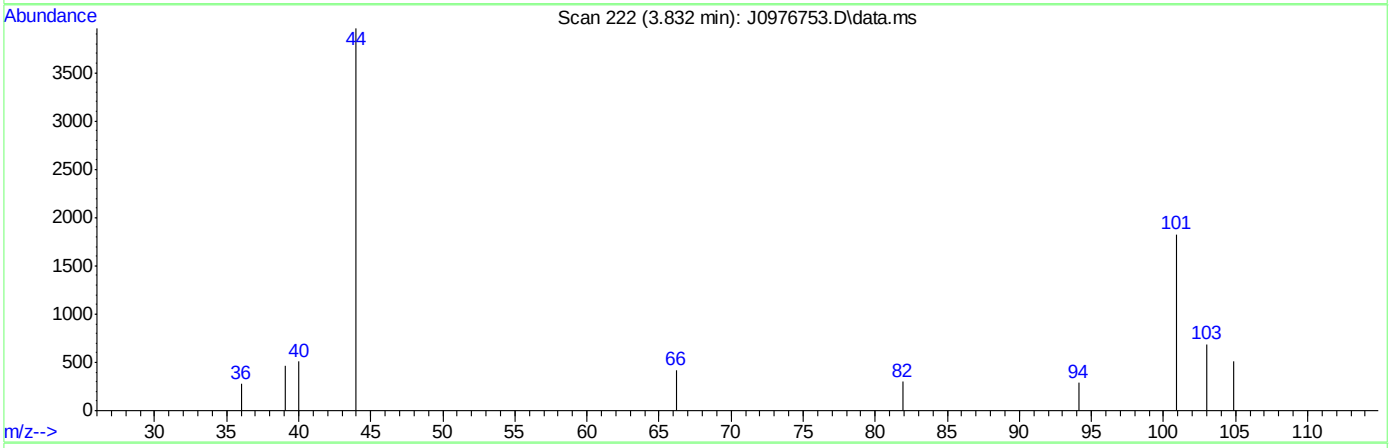
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:40:50 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976753.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.012) 0.61ug/L

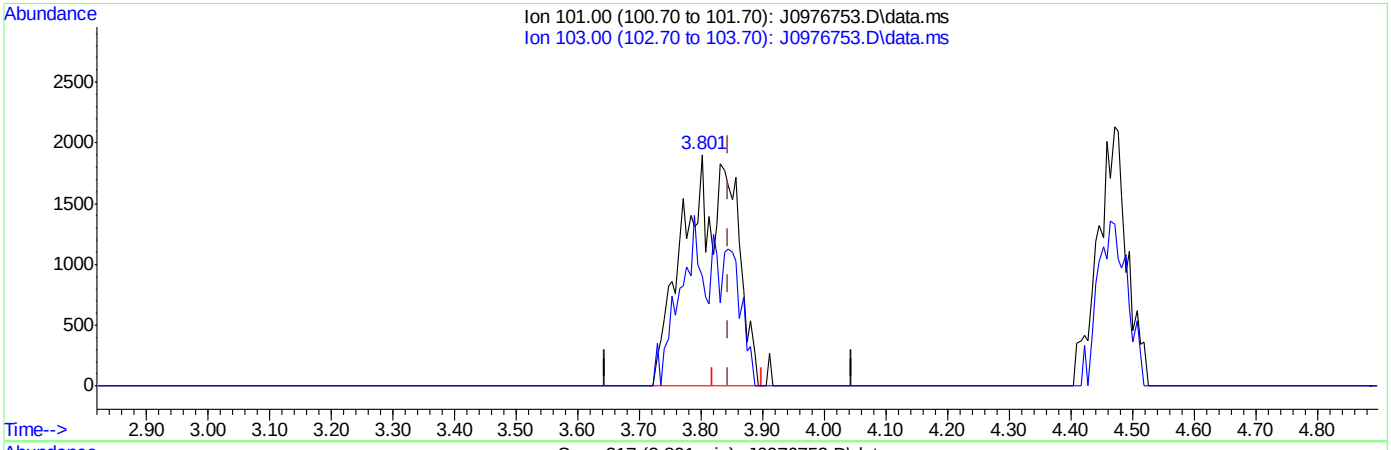
response 4738

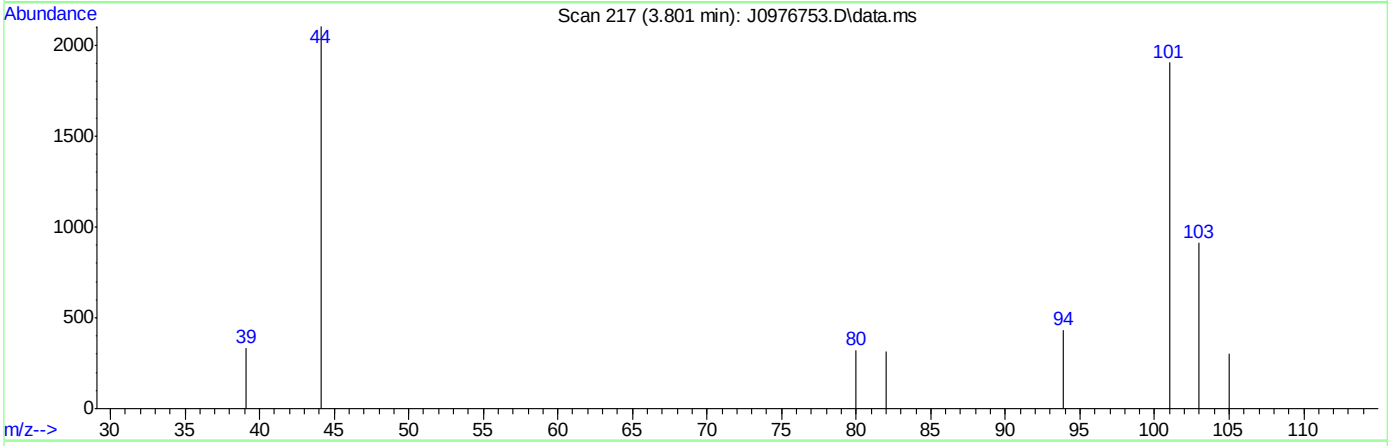
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	37.72
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:40:50 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976753.D\data.ms

(8) Trichlorofluoromethane ( )

3.801min (-0.043) 1.41ug/L m

response 10984

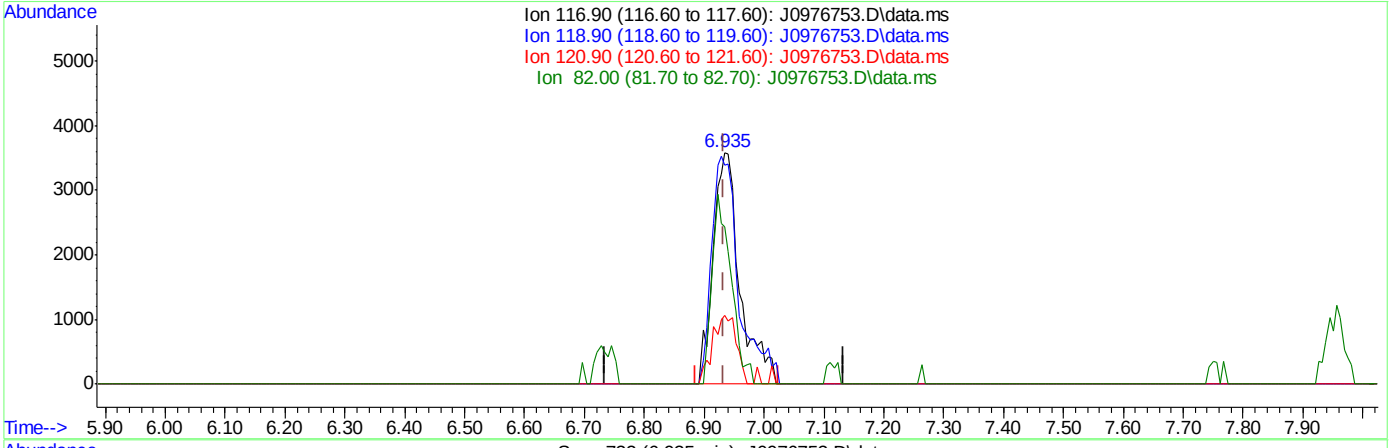
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	47.82
0.00	0.00	0.00
0.00	0.00	0.00

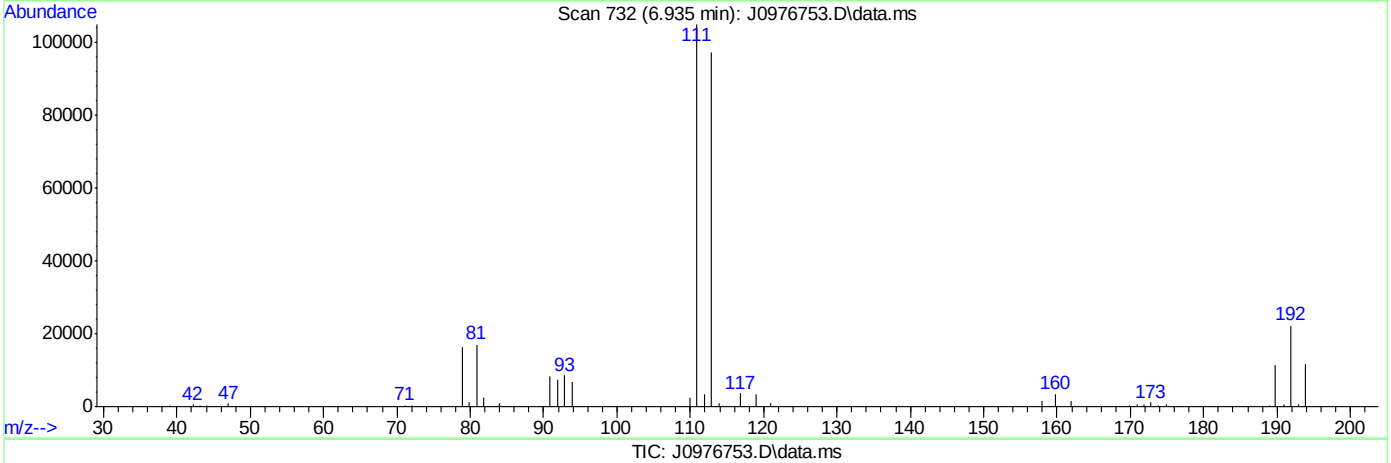
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:40:50 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976753.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 1.30ug/L

response 11069

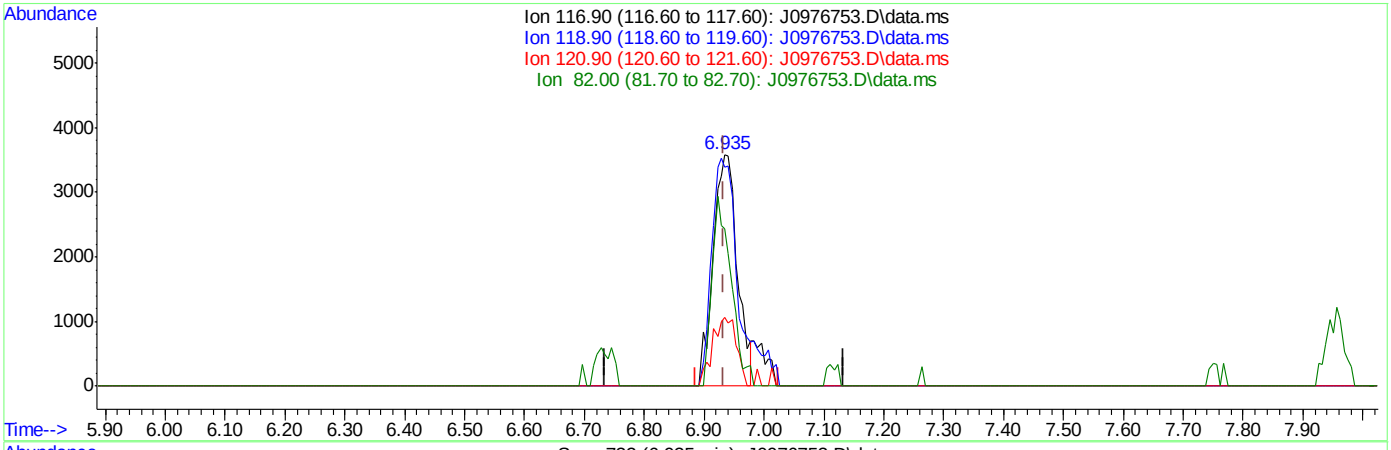
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	94.70
120.90	31.20	29.89
82.00	25.70	67.88#

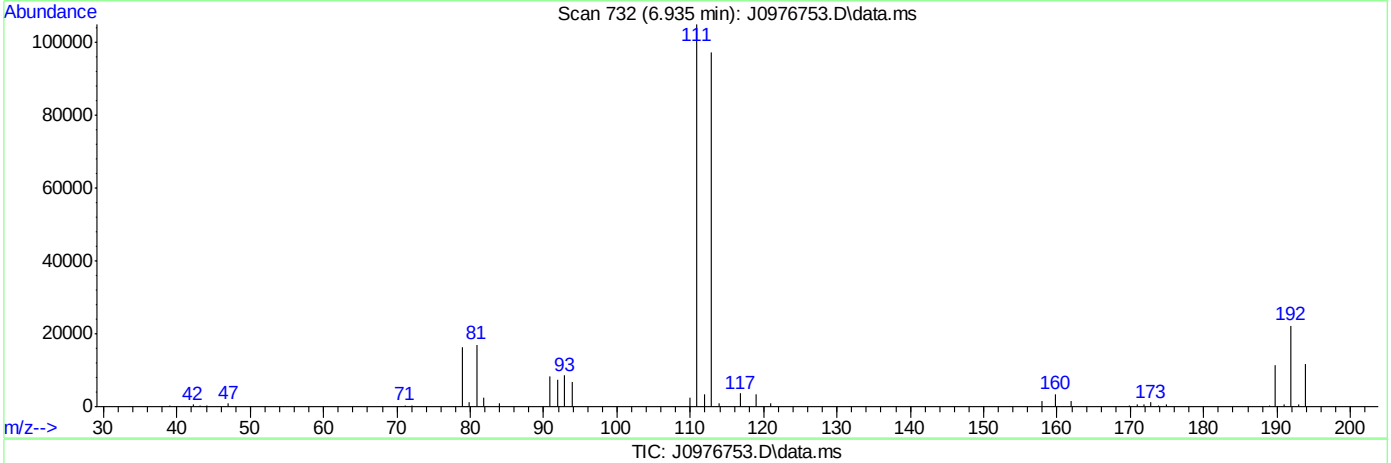
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976753.D
Acq On : 24 May 2016 10:33 am
Operator : DARSHNAP
Sample : ic5312-1 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 24 12:40:50 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976753.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 1.17ug/L m

response 9933

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	94.70
120.90	31.20	29.89
82.00	25.70	67.88#

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:42:41 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1102902	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	898361	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	481043	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	73257	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	280273	50.72	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.44%			
46) 1,2-Dichloroethane-d4	7.482	65	329939	51.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.14%			
57) Toluene-d8	9.301	98	1157951	50.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.10%			
79) 4-Bromofluorobenzene	12.051	95	452777	51.62	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	46151	10.96	ug/L	99
3) Chloromethane	2.883	50	51755	9.43	ug/L	95
4) Vinyl Chloride	3.029	62	54623	8.80	ug/L	88
5) 1,3-Butadiene	3.035	54	19710	Below Cal #		83
6) Bromomethane	3.455	94	40725	9.93	ug/L	94
7) Chloroethane	3.625	64	28757	8.85	ug/L	90
8) Trichlorofluoromethane	3.832	101	66363m	8.41	ug/L	
9) Ethyl Ether	4.118	59	21660	4.91	ug/L	89
10) 1,2-Dichlorotrifluoroe...	4.361	67	35803	5.32	ug/L	89
11) 1,1-Dichloroethene	4.404	61	43738	5.44	ug/L	96
12) Freon 113	4.471	101	31295	5.61	ug/L	96
13) Carbon Disulfide	4.483	76	98896	5.51	ug/L	99
14) Iodomethane	4.586	142	48552	5.46	ug/L	91
15) Allyl chloride	4.927	41	38934	5.76	ug/L	95
16) Methylene Chloride	5.048	49	45086	5.98	ug/L	95
17) Acetone	5.073	58	10976	32.39	ug/L	87
18) Methyl acetate	5.194	74	15055	23.62	ug/L #	80
19) trans-1,2-Dichloroethene	5.237	61	39780	5.32	ug/L	93
20) Hexane	5.304	56	26666	5.10	ug/L	90
21) Methyl Tert Butyl Ether	5.334	73	73931	4.57	ug/L	80
22) Acetonitrile	5.602	40	13260	64.69	ug/L #	57
23) Di-isopropyl ether	5.712	45	81399	4.54	ug/L	91
24) Chloroprene	5.876	53	39776	5.75	ug/L	94
25) 1,1-Dichloroethane	5.900	63	53602	5.23	ug/L	99
26) Acrylonitrile	5.931	53	40951	30.50	ug/L	87
27) ETBE	6.113	59	83931	4.58	ug/L	95
28) Vinyl acetate	6.113	43	251810	30.54	ug/L	98
29) cis-1,2-Dichloroethene	6.478	96	32531	5.06	ug/L	83
30) 2,2-Dichloropropane	6.606	77	43955	5.19	ug/L	96
31) Bromochloromethane	6.685	128	15021	4.93	ug/L	88
32) Cyclohexane	6.734	56	46309	4.88	ug/L	94
33) Chloroform	6.740	83	56886	5.06	ug/L	98
34) Ethyl acetate	6.813	43	90573	29.60	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:42:41 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.922	42	5142	5.56	ug/L		81
37) Carbon Tetrachloride	6.934	117	43509m	5.05	ug/L		
38) 1,1,1-Trichloroethane	6.995	97	49649	5.00	ug/L		92
39) 2-Butanone	7.032	43	36057	24.50	ug/L		93
40) 1,1-Dichloropropene	7.105	75	37329	4.83	ug/L		96
41) tert-Butyl Formate	7.190	59	156701	42.78	ug/L	#	79
42) Propionitrile	7.336	54	28844	58.72	ug/L		87
43) Methacrylonitrile	7.360	41	138341	67.59	ug/L		96
44) Benzene	7.360	78	121494	4.80	ug/L		98
45) TAME	7.433	73	77893	4.60	ug/L		92
47) 1,2-Dichloroethane	7.555	62	40845	4.98	ug/L		98
48) Trichloroethene	7.938	95	29772	4.75	ug/L		97
49) Methylcyclohexane	7.956	83	52321	4.90	ug/L		98
50) Dibromomethane	8.364	93	16493	4.76	ug/L		92
51) 1,2-Dichloropropane	8.449	63	29125	4.77	ug/L		94
52) Bromodichloromethane	8.498	83	38321	4.73	ug/L		97
53) Methyl methacrylate	8.601	41	13065	4.37	ug/L		94
54) 2-Chloroethyl vinyl ether	9.015	63	58925	19.55	ug/L		98
55) cis-1,3-Dichloropropene	9.106	75	40931	4.43	ug/L		90
58) Toluene	9.356	91	134637	4.85	ug/L		100
59) 2-Nitropropane	9.556	41	20956	20.84	ug/L	#	80
60) 4-Methyl-2-pentanone	9.672	43	77426	18.70	ug/L		96
61) trans-1,3-Dichloropropene	9.745	75	35341	4.30	ug/L		97
62) Tetrachloroethene	9.757	166	32545	4.84	ug/L		95
63) Ethyl methacrylate	9.842	69	24596	4.13	ug/L		96
64) 1,1,2-Trichloroethane	9.903	83	21218	4.73	ug/L		95
65) Dibromochloromethane	10.104	129	25225	4.27	ug/L		93
66) 1,3-Dichloropropane	10.183	76	41195	4.50	ug/L		97
67) 1,2-Dibromoethane	10.366	107	22117	4.37	ug/L		97
68) 2-hexanone	10.493	43	52971	19.74	ug/L		96
69) 1-Chlorohexane	10.797	91	33885	4.24	ug/L		85
70) Ethylbenzene	10.864	91	152849	4.57	ug/L		95
71) Chlorobenzene	10.864	112	87374	4.61	ug/L		91
72) 1,1,1,2-Tetrachloroethane	10.913	131	27978	4.59	ug/L		90
73) m,p-Xylene	10.998	91	222309	8.56	ug/L		94
74) o-Xylene	11.436	91	103815	4.31	ug/L		93
75) Styrene	11.491	104	73435	3.95	ug/L		97
76) Bromoform	11.546	173	15526	4.11	ug/L		98
77) Isopropylbenzene	11.740	105	120930	3.95	ug/L		94
80) cis-1,4-Dichloro-2-butene	12.087	53	5155	3.53	ug/L	#	83
81) n-Propylbenzene	12.160	91	161236	4.36	ug/L		92
82) Bromobenzene	12.185	156	37679	4.70	ug/L		94
83) 1,1,2,2-Tetrachloroethane	12.221	83	31899	4.94	ug/L		94
84) 1,3,5-Trimethylbenzene	12.343	105	112083	4.12	ug/L		98
85) 2-Chlorotoluene	12.355	91	119502	4.62	ug/L		98
86) trans-1,4-Dichloro-2-B...	12.410	53	4418	3.18	ug/L	#	49
87) 1,2,3-Trichloropropane	12.385	110	8304	4.88	ug/L		86
88) Cyclohexanone	12.446	55	4261	29.15	ug/L		84
89) 4-Chlorotoluene	12.519	91	99711	4.22	ug/L		95
90) a-Methyl Styrene	12.610	118	54814	4.16	ug/L		97

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:42:41 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	66850	4.53	ug/L	95
92) 1,2,4-Trimethylbenzene	12.750	105	116295	4.27	ug/L	99
93) Pentachloroethane	12.738	167	23909	5.06	ug/L	90
94) sec-Butylbenzene	12.866	105	138725	4.22	ug/L	96
95) 4-Isopropyltoluene	13.000	119	115980	4.61	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	65451	4.63	ug/L	95
97) 1,4-Dichlorobenzene	13.219	146	70021	4.74	ug/L	93
98) n-Butylbenzene	13.432	92	61306	4.25	ug/L	97
99) Benzyl Chloride	13.444	126	7746	3.43	ug/L #	1
100) 1,2-Dichlorobenzene	13.645	146	59870	4.54	ug/L	94
101) 1,2-Dibromo-3-Chloropr...	14.381	75	3627	4.39	ug/L #	66
102) Hexachlorobutadiene	14.928	225	26460	4.86	ug/L	94
103) 1,2,4-Trichlorobenzene	14.977	180	37850	4.27	ug/L	95
104) Naphthalene	15.257	128	43594	3.39	ug/L	100
105) 1,2,3-Trichlorobenzene	15.427	180	31855	4.35	ug/L	98
107) Ethanol	4.288	45	4586m	126.60	ug/L	
108) acrolein	4.763	56	15228	22.05	ug/L	93
109) Tert Butyl Alcohol	5.389	59	19350	51.11	ug/L	83
110) tert Amyl alcohol	7.579	59	12998	42.87	ug/L	92
111) Isobutyl alcohol	7.458	42	12795	93.26	ug/L	94
112) 1,4-Dioxane	8.674	88	3265	76.50	ug/L	84
113) 3,3-Dimethyl-1-butanol	10.439	57	46986	141.55	ug/L	96

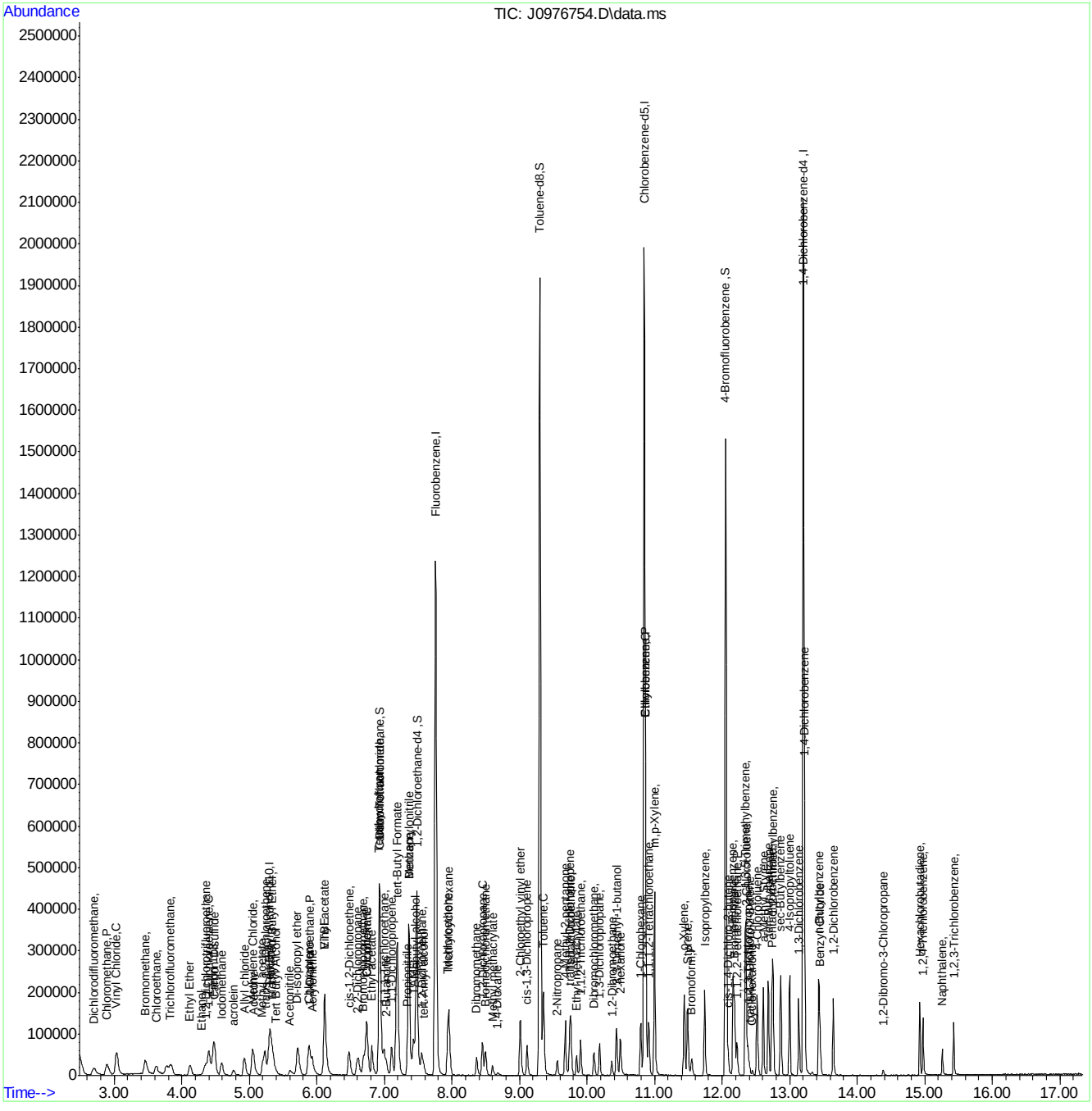
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:42:41 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

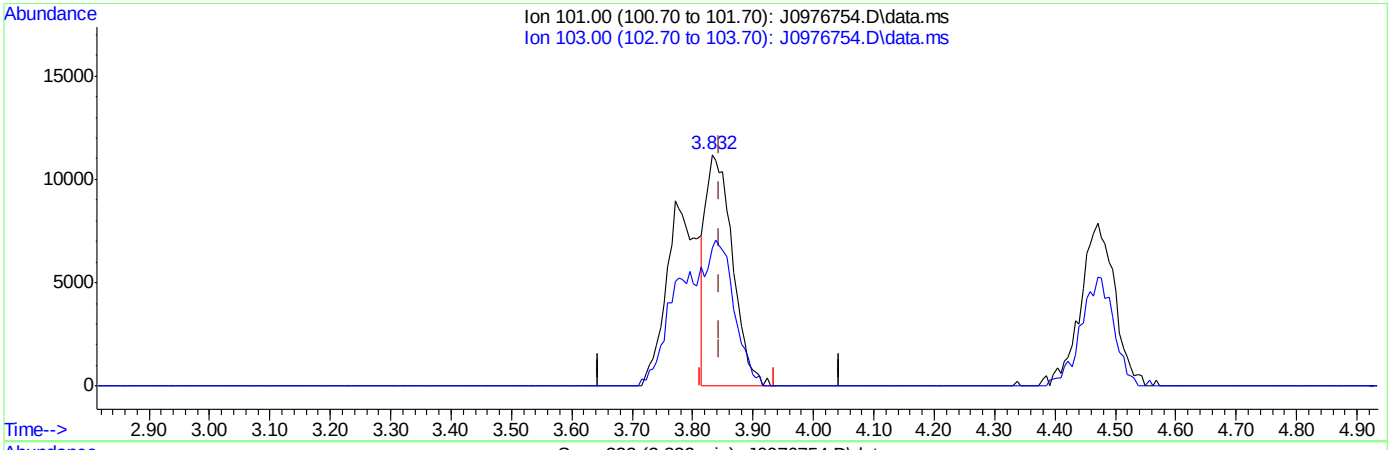
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976754.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 10:56	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

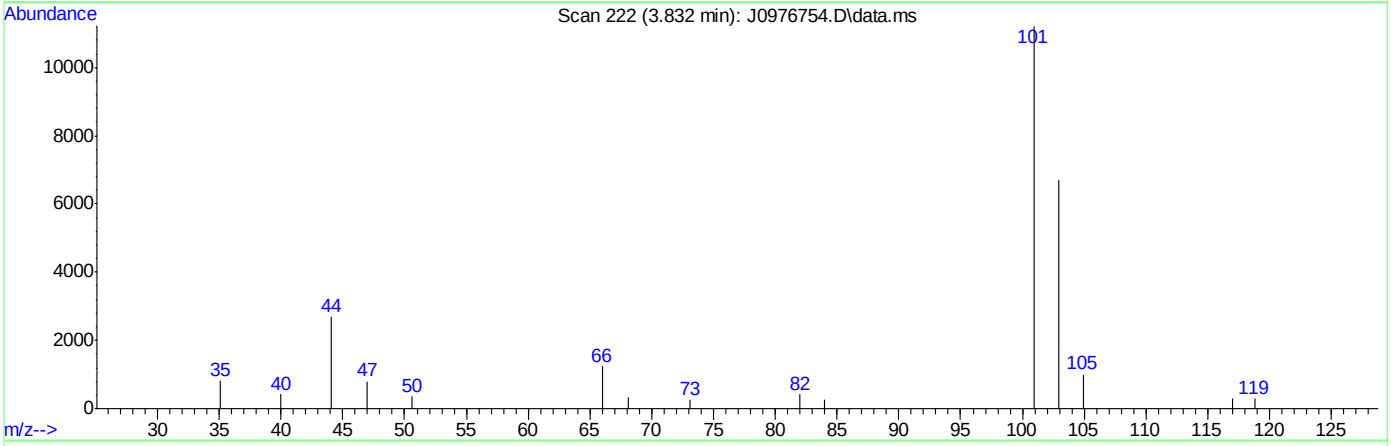
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.012) 4.40ug/L

response 34751

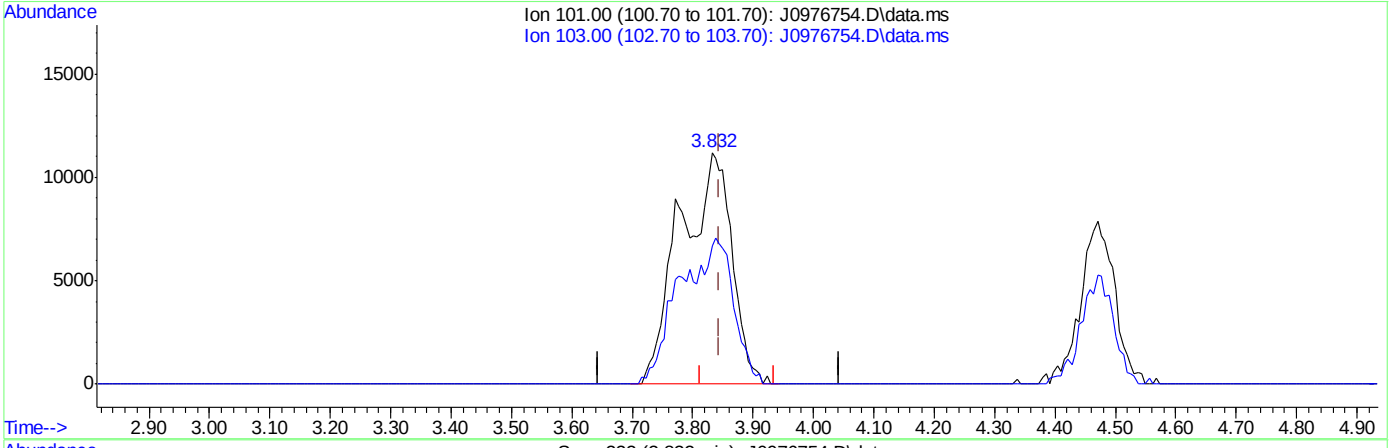
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	59.91
0.00	0.00	0.00
0.00	0.00	0.00

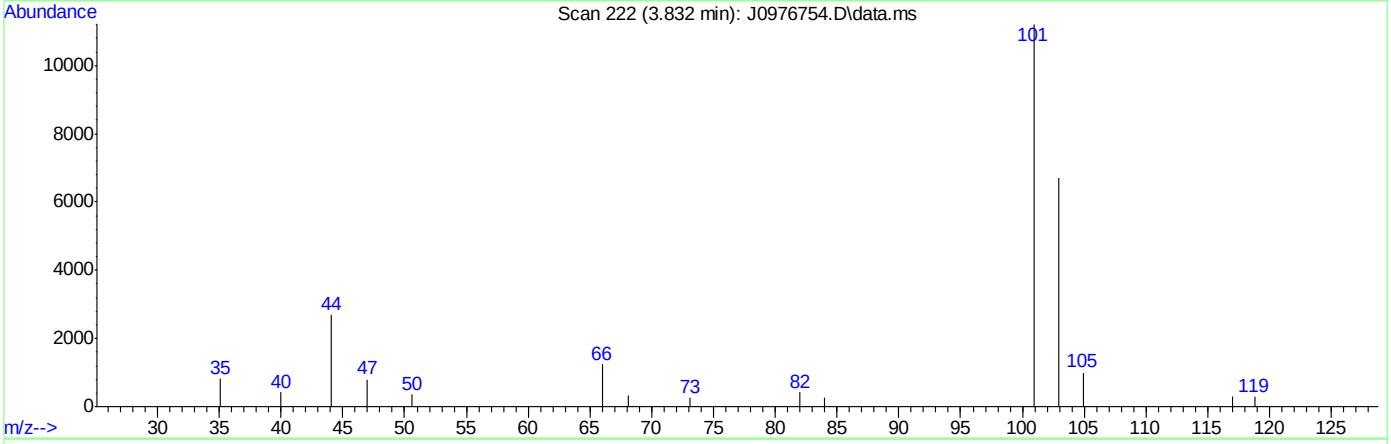
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.012) 8.41ug/L m

response 66363

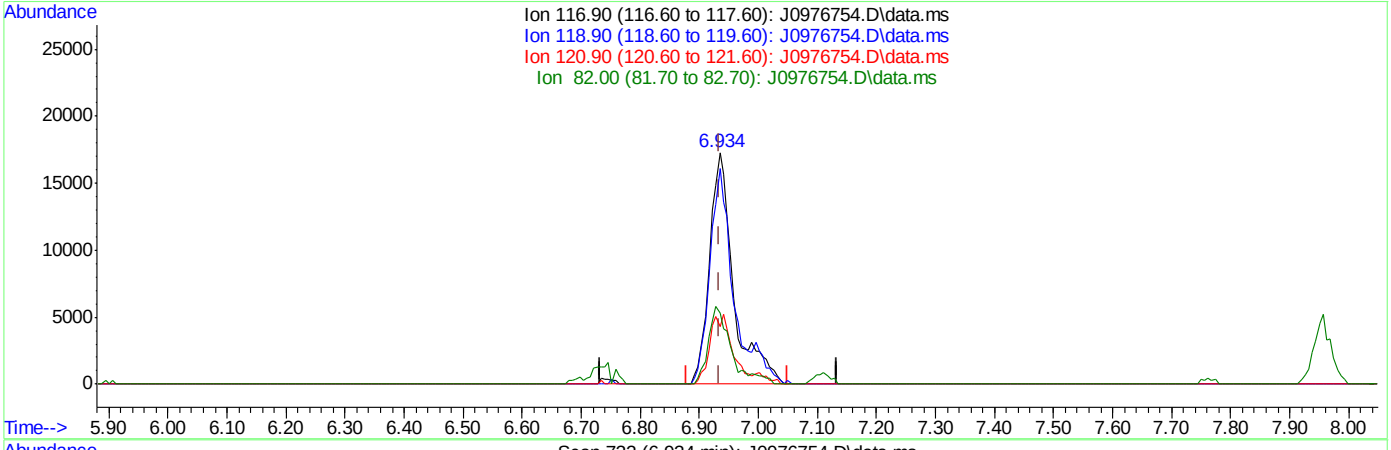
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	59.91
0.00	0.00	0.00
0.00	0.00	0.00

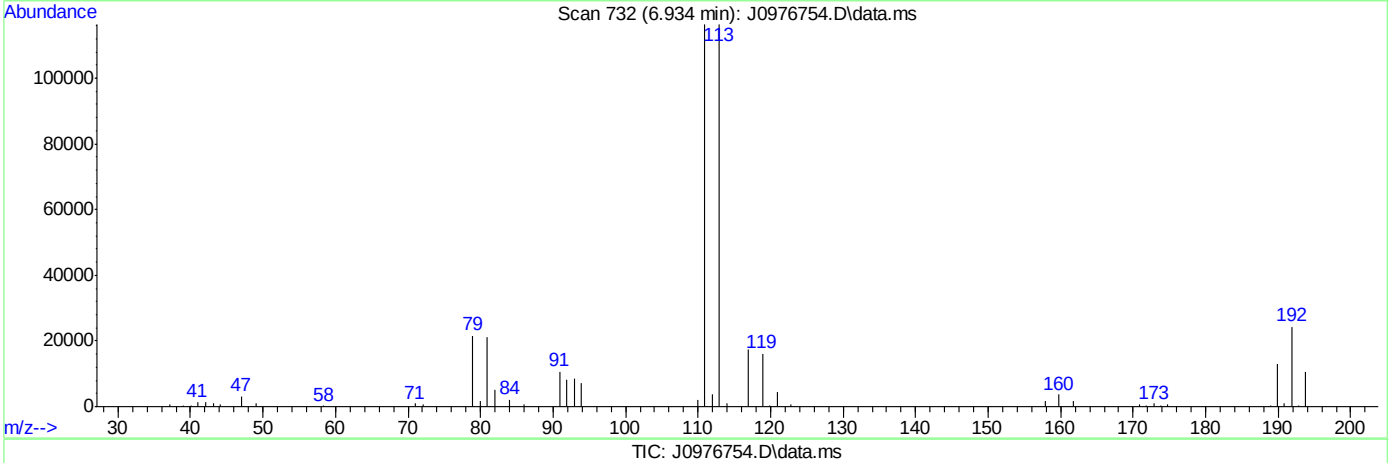
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 5.69ug/L

response 49020

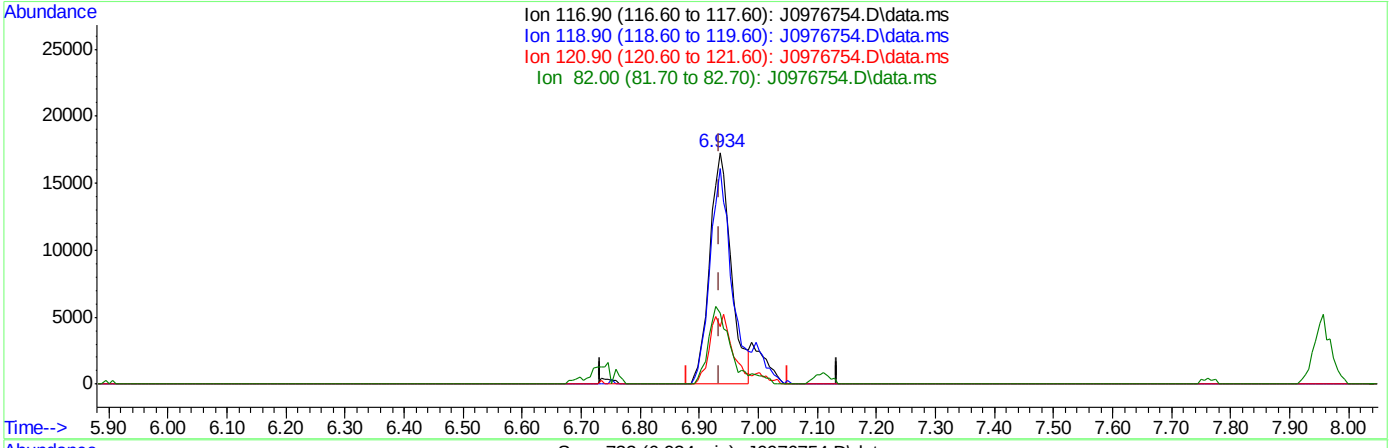
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	92.85
120.90	31.20	24.99
82.00	25.70	30.42

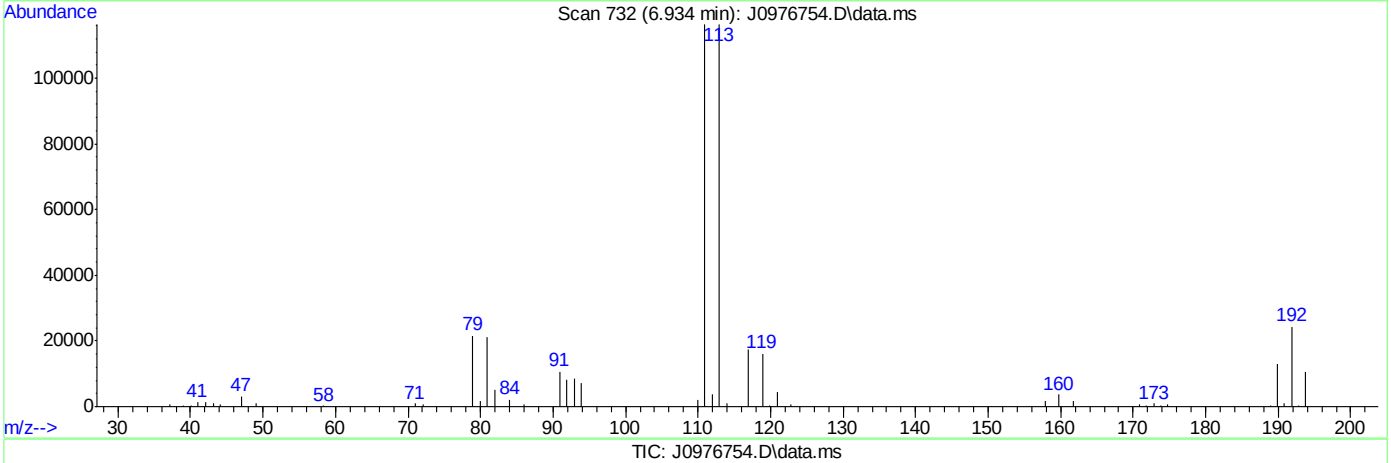
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 5.05ug/L m

response 43509

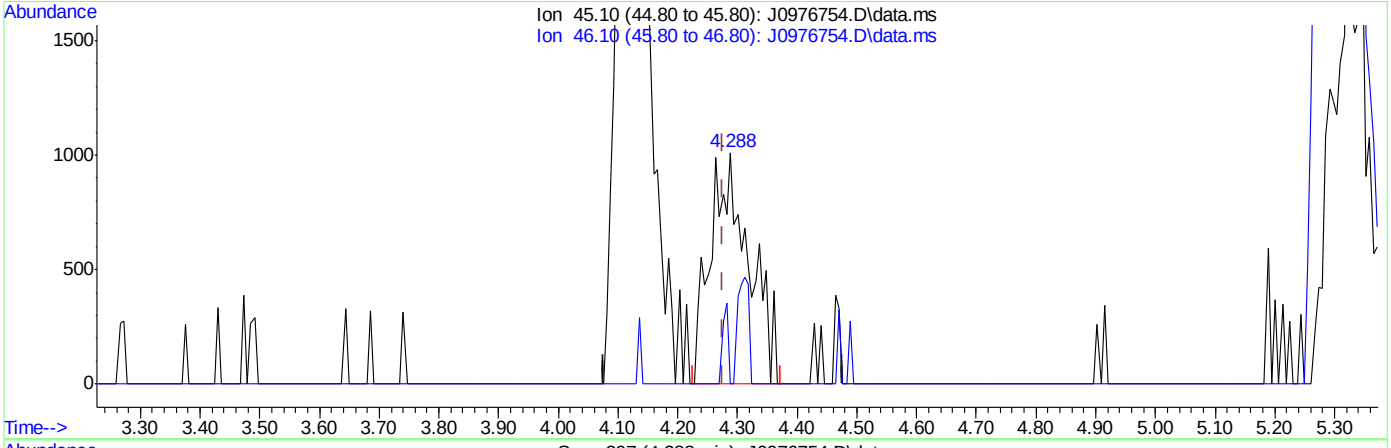
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	92.85
120.90	31.20	24.99
82.00	25.70	30.42

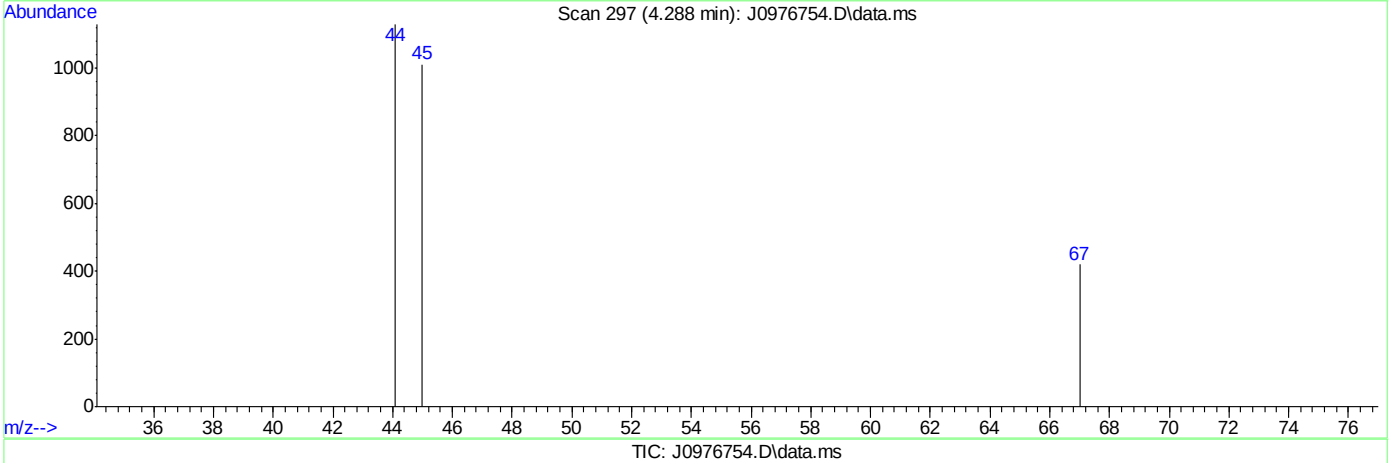
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(107) Ethanol

4.288min (+0.012) 126.60ug/L

response 4586

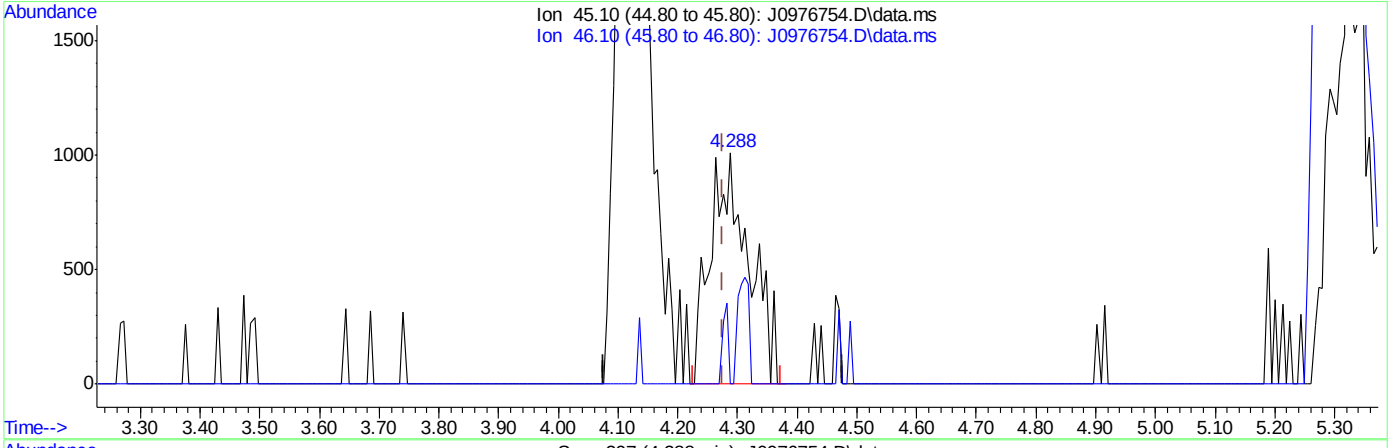
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

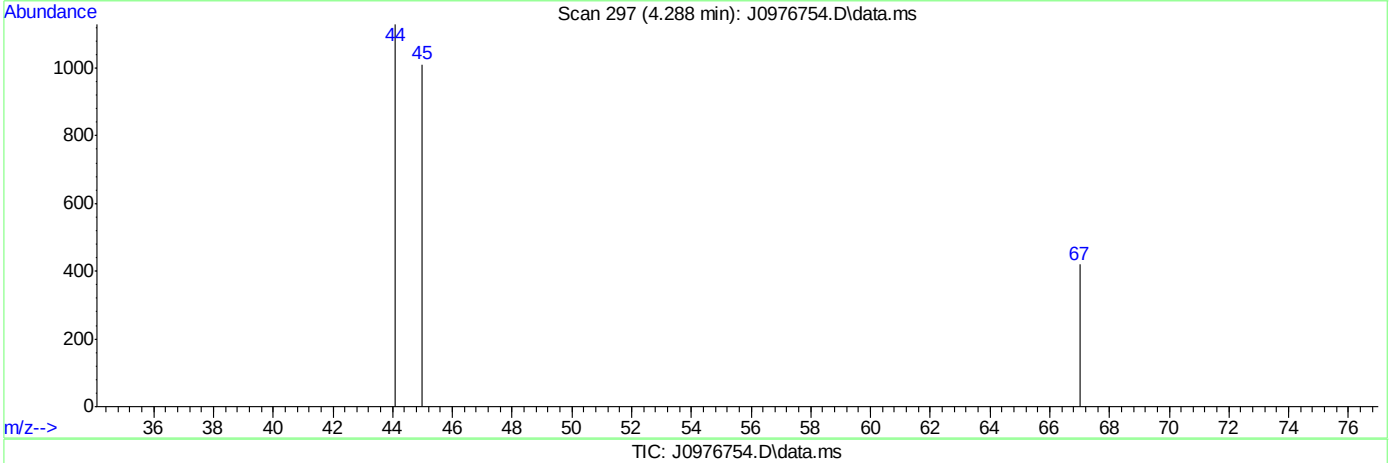
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976754.D
Acq On : 24 May 2016 10:56 am
Operator : DARSHNAP
Sample : ic5312-2 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 24 12:40:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976754.D\data.ms

(107) Ethanol

4.288min (+0.012) 126.60ug/L m

response 4586

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:43:15 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1149224	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	934306	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	517113	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	73648	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	287047	49.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.70%			
46) 1,2-Dichloroethane-d4	7.482	65	335454	49.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.66%			
57) Toluene-d8	9.301	98	1191438	49.51	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.02%			
79) 4-Bromofluorobenzene	12.051	95	485450	51.49	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	74436	16.82	ug/L	92
3) Chloromethane	2.889	50	87387	15.15	ug/L	89
4) Vinyl Chloride	3.035	62	90370	13.98	ug/L	97
5) 1,3-Butadiene	3.035	54	41357	Below Cal #		89
6) Bromomethane	3.461	94	63641	15.13	ug/L	96
7) Chloroethane	3.625	64	46294	14.15	ug/L	98
8) Trichlorofluoromethane	3.844	101	112127m	13.63	ug/L	
9) Ethyl Ether	4.118	59	45406	9.89	ug/L	100
10) 1,2-Dichlorotrifluoroe...	4.361	67	74116	10.56	ug/L	96
11) 1,1-Dichloroethene	4.404	61	93250	11.10	ug/L	97
12) Freon 113	4.471	101	65899	11.30	ug/L	89
13) Carbon Disulfide	4.483	76	207296	11.04	ug/L	99
14) Iodomethane	4.586	142	100045	10.75	ug/L	97
15) Allyl chloride	4.921	41	83568	11.76	ug/L	96
16) Methylene Chloride	5.049	49	86642	11.06	ug/L	95
17) Acetone	5.073	58	20073	56.85	ug/L	99
18) Methyl acetate	5.201	74	31193	46.96	ug/L #	84
19) trans-1,2-Dichloroethene	5.231	61	80833	10.37	ug/L	97
20) Hexane	5.304	56	57736	10.59	ug/L	97
21) Methyl Tert Butyl Ether	5.341	73	154930	9.20	ug/L	92
22) Acetonitrile	5.590	40	27269	127.22	ug/L #	82
23) Di-isopropyl ether	5.718	45	175580	9.40	ug/L	96
24) Chloroprene	5.870	53	84603	11.58	ug/L	95
25) 1,1-Dichloroethane	5.900	63	110846	10.41	ug/L	98
26) Acrylonitrile	5.937	53	75770	54.16	ug/L	92
27) ETBE	6.119	59	183648	9.61	ug/L	98
28) Vinyl acetate	6.113	43	486977	56.67	ug/L	100
29) cis-1,2-Dichloroethene	6.478	96	68375	10.19	ug/L	94
30) 2,2-Dichloropropane	6.606	77	88255	10.01	ug/L	99
31) Bromochloromethane	6.691	128	30731	9.68	ug/L	93
32) Cyclohexane	6.734	56	102331	10.34	ug/L	96
33) Chloroform	6.740	83	116897	10.00	ug/L	99
34) Ethyl acetate	6.813	43	169457	53.14	ug/L	97

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:43:15 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	10667	11.05 ug/L	89
37) Carbon Tetrachloride	6.934	117	90053m	10.04 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	103881	10.05 ug/L	93
39) 2-Butanone	7.026	43	73135	47.86 ug/L	96
40) 1,1-Dichloropropene	7.111	75	82340	10.23 ug/L	96
41) tert-Butyl Formate	7.184	59	441520	115.69 ug/L	93
42) Propionitrile	7.336	54	56968	111.30 ug/L	87
43) Methacrylonitrile	7.360	41	253982	119.09 ug/L	98
44) Benzene	7.360	78	259587	9.89 ug/L	95
45) TAME	7.433	73	163156	9.24 ug/L	95
47) 1,2-Dichloroethane	7.549	62	81859	9.64 ug/L	96
48) Trichloroethene	7.938	95	64555	9.91 ug/L	95
49) Methylcyclohexane	7.957	83	115381	10.38 ug/L	93
50) Dibromomethane	8.364	93	35001	9.70 ug/L	95
51) 1,2-Dichloropropane	8.449	63	60519	9.53 ug/L	94
52) Bromodichloromethane	8.492	83	80721	9.60 ug/L	93
53) Methyl methacrylate	8.595	41	29233	9.37 ug/L	98
54) 2-Chloroethyl vinyl ether	9.009	63	162204	51.83 ug/L	98
55) cis-1,3-Dichloropropene	9.112	75	90612	9.41 ug/L	97
58) Toluene	9.356	91	285056	9.94 ug/L	96
59) 2-Nitropropane	9.556	41	43639	41.88 ug/L	90
60) 4-Methyl-2-pentanone	9.672	43	188444	44.17 ug/L	98
61) trans-1,3-Dichloropropene	9.739	75	75872	8.88 ug/L	96
62) Tetrachloroethene	9.757	166	66794	9.55 ug/L	91
63) Ethyl methacrylate	9.842	69	56970	9.15 ug/L	94
64) 1,1,2-Trichloroethane	9.903	83	44549	9.59 ug/L	93
65) Dibromochloromethane	10.104	129	53344	8.69 ug/L	96
66) 1,3-Dichloropropane	10.183	76	86979	9.18 ug/L	94
67) 1,2-Dibromoethane	10.366	107	46840	8.90 ug/L	94
68) 2-hexanone	10.493	43	126441	45.31 ug/L	98
69) 1-Chlorohexane	10.798	91	81169	9.77 ug/L	97
70) Ethylbenzene	10.858	91	323843	9.41 ug/L	97
71) Chlorobenzene	10.864	112	185266	9.46 ug/L	95
72) 1,1,1,2-Tetrachloroethane	10.913	131	58699	9.26 ug/L	97
73) m,p-Xylene	10.998	91	499595	18.78 ug/L	94
74) o-Xylene	11.436	91	235604	9.39 ug/L	93
75) Styrene	11.485	104	175654	9.08 ug/L	96
76) Bromoform	11.546	173	32320	8.21 ug/L	96
77) Isopropylbenzene	11.741	105	284787	9.01 ug/L	95
80) cis-1,4-Dichloro-2-butene	12.087	53	12753	8.12 ug/L	90
81) n-Propylbenzene	12.160	91	361381	9.21 ug/L	96
82) Bromobenzene	12.185	156	80249	9.35 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.221	83	65204	9.44 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	259445	8.94 ug/L	96
85) 2-Chlorotoluene	12.349	91	258410	9.38 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.398	53	11751	7.86 ug/L #	77
87) 1,2,3-Trichloropropane	12.379	110	15822	8.68 ug/L	92
88) Cyclohexanone	12.446	55	8160	51.90 ug/L	94
89) 4-Chlorotoluene	12.519	91	224709	8.91 ug/L	100
90) a-Methyl Styrene	12.610	118	134335	9.47 ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:43:15 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	151672	9.61	ug/L	97
92) 1,2,4-Trimethylbenzene	12.750	105	262743	9.06	ug/L	100
93) Pentachloroethane	12.738	167	50753	9.96	ug/L	93
94) sec-Butylbenzene	12.866	105	324544	9.28	ug/L	97
95) 4-Isopropyltoluene	13.000	119	270750	10.01	ug/L	95
96) 1,3-Dichlorobenzene	13.134	146	138890	9.17	ug/L	95
97) 1,4-Dichlorobenzene	13.219	146	148671	9.42	ug/L	94
98) n-Butylbenzene	13.432	92	148099	9.55	ug/L	98
99) Benzyl Chloride	13.450	126	17864	7.36	ug/L #	64
100) 1,2-Dichlorobenzene	13.645	146	128756	9.12	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	14.381	75	7270	8.17	ug/L	93
102) Hexachlorobutadiene	14.928	225	55468	9.44	ug/L	99
103) 1,2,4-Trichlorobenzene	14.977	180	79708	8.38	ug/L	97
104) Naphthalene	15.257	128	102752	7.43	ug/L	97
105) 1,2,3-Trichlorobenzene	15.427	180	69473	8.82	ug/L	97
107) Ethanol	4.276	45	8825	242.32	ug/L	94
108) acrolein	4.757	56	31074	44.75	ug/L	91
109) Tert Butyl Alcohol	5.383	59	37181	98.27	ug/L	94
110) tert Amyl alcohol	7.579	59	26335	86.89	ug/L	88
111) Isobutyl alcohol	7.458	42	27629	203.01	ug/L #	74
112) 1,4-Dioxane	8.680	88	8303	194.72	ug/L	84
113) 3,3-Dimethyl-1-butanol	10.433	57	146450	441.99	ug/L	95

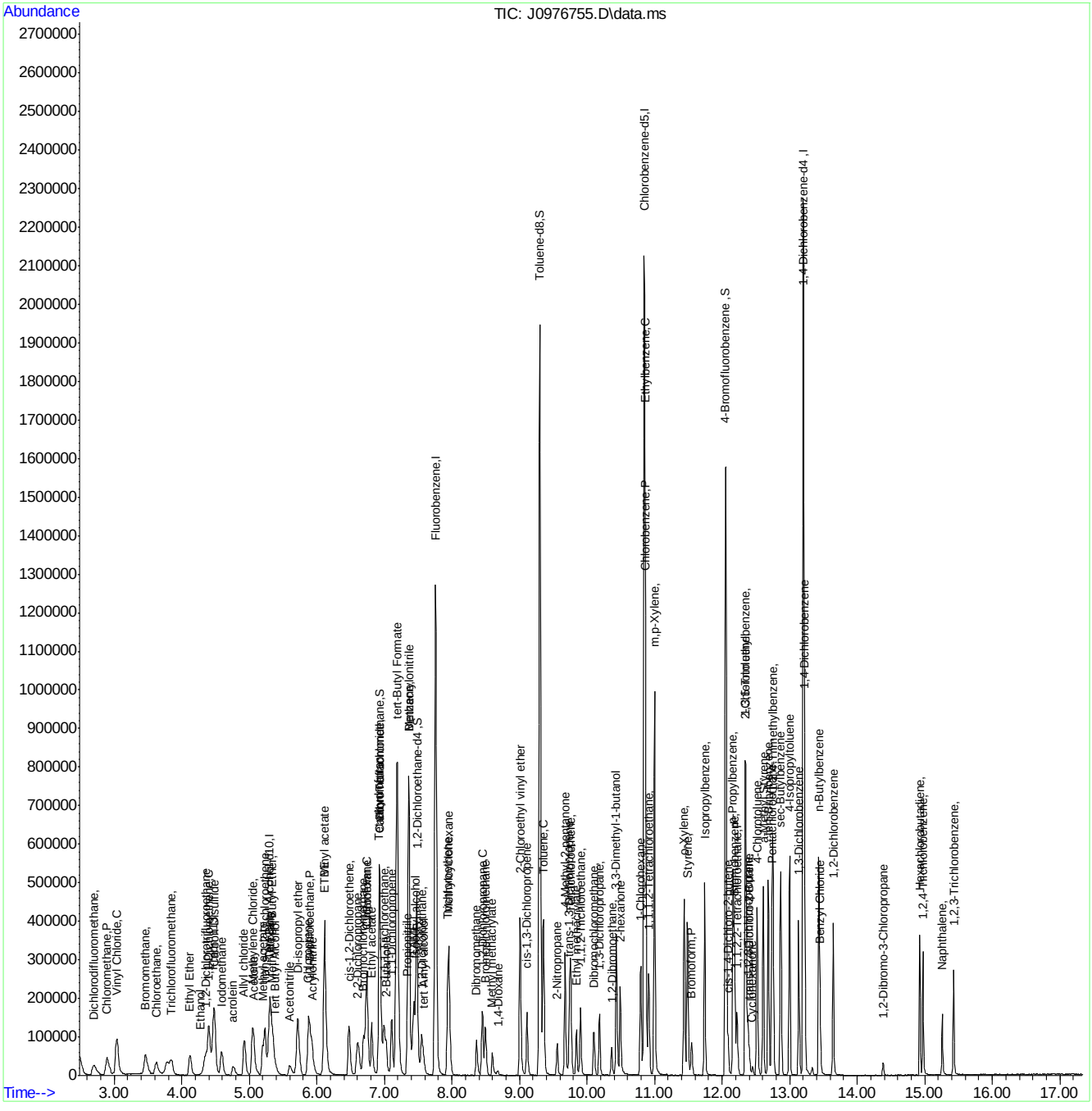
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:43:15 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

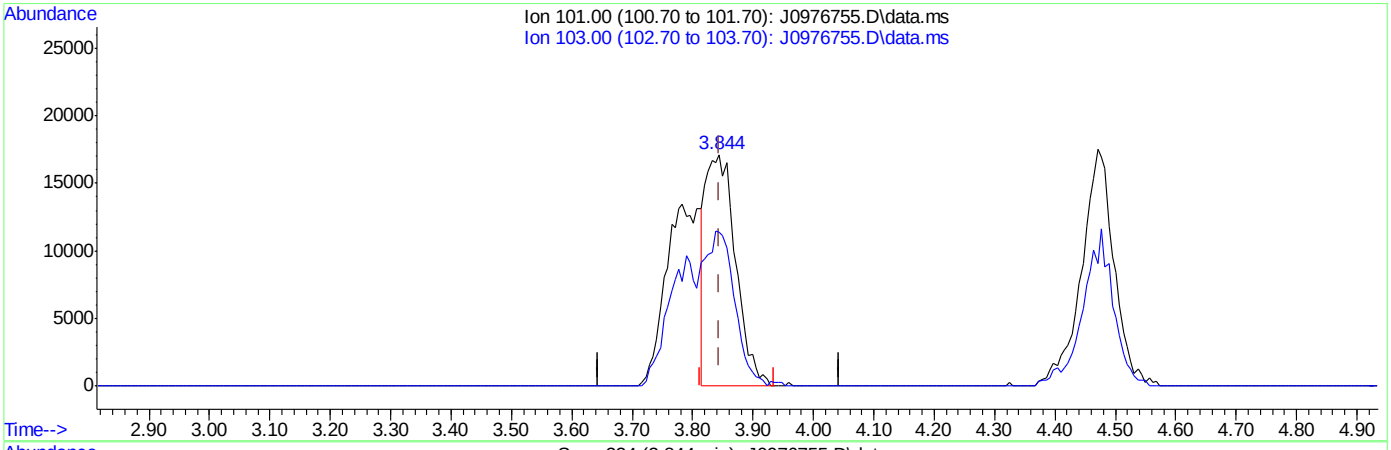
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976755.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 11:18	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

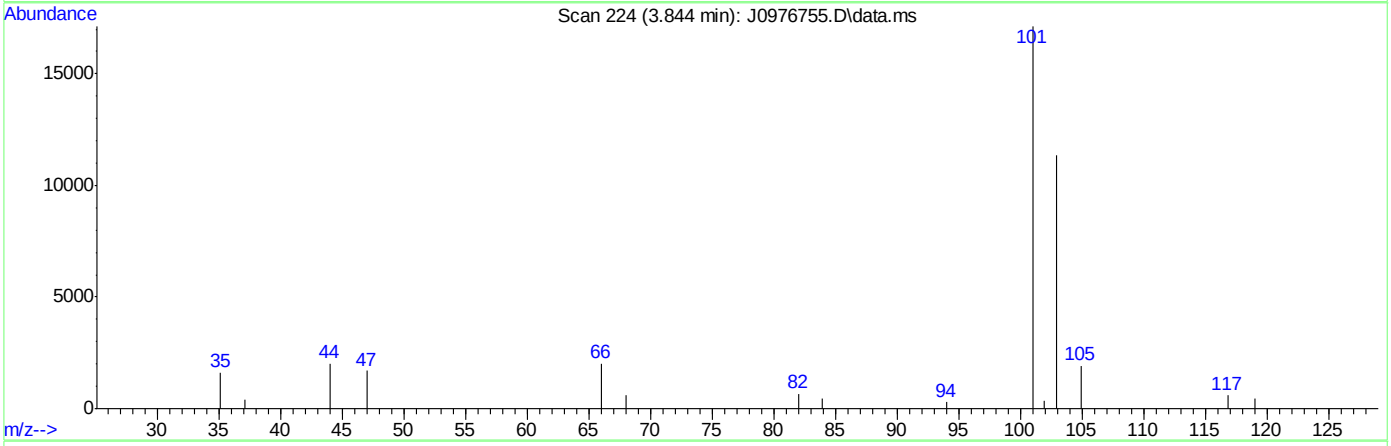
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:40:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976755.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 7.21ug/L

response 59331

Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.61
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
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Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
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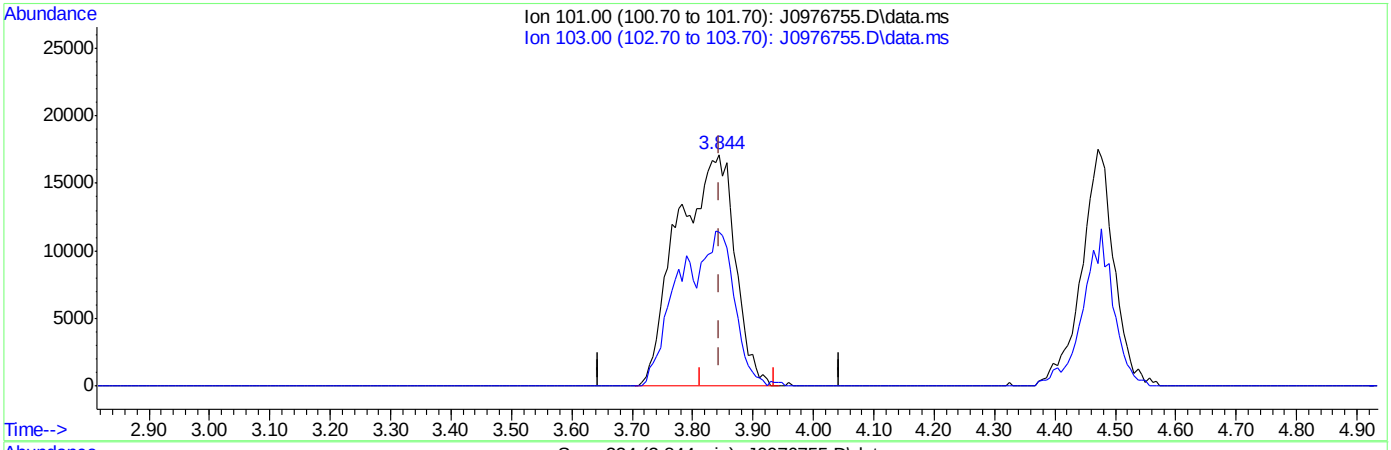

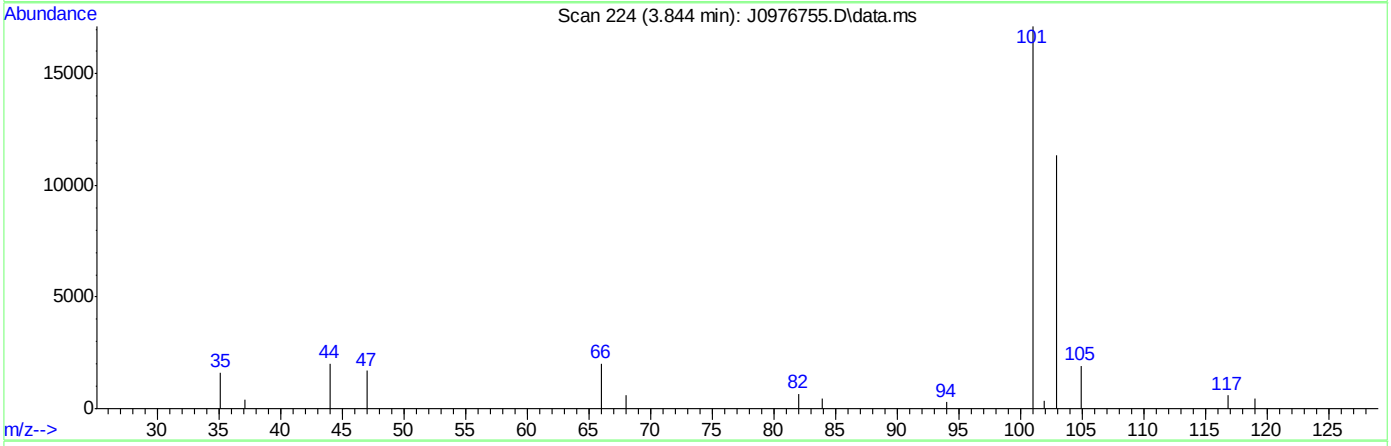

TIC: J0976755.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 13.63ug/L m

response 112127

Ion	Exp%	Act%
101.00	100	100
103.00	59.70	66.35
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:40:56 2016
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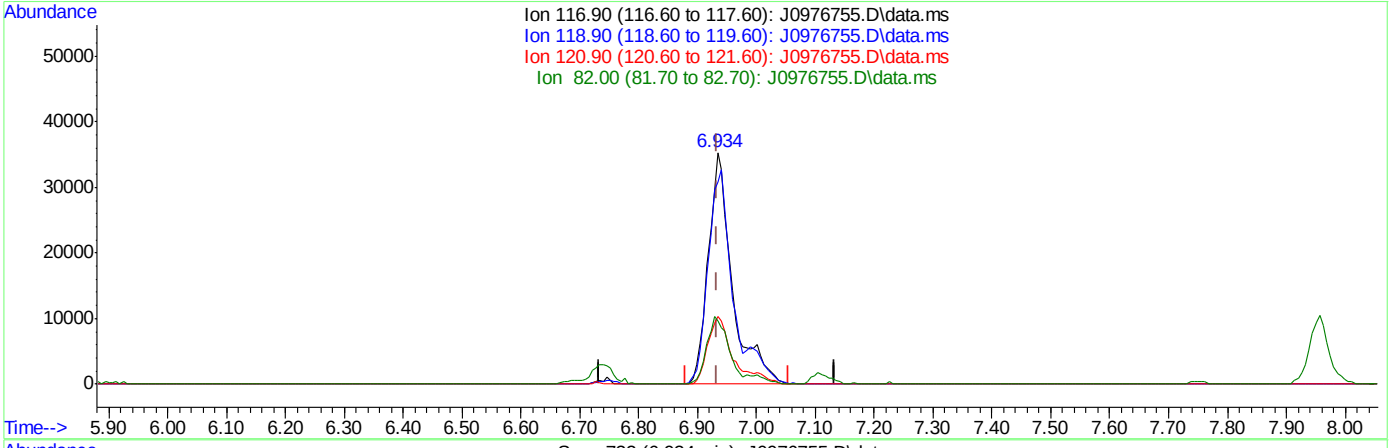
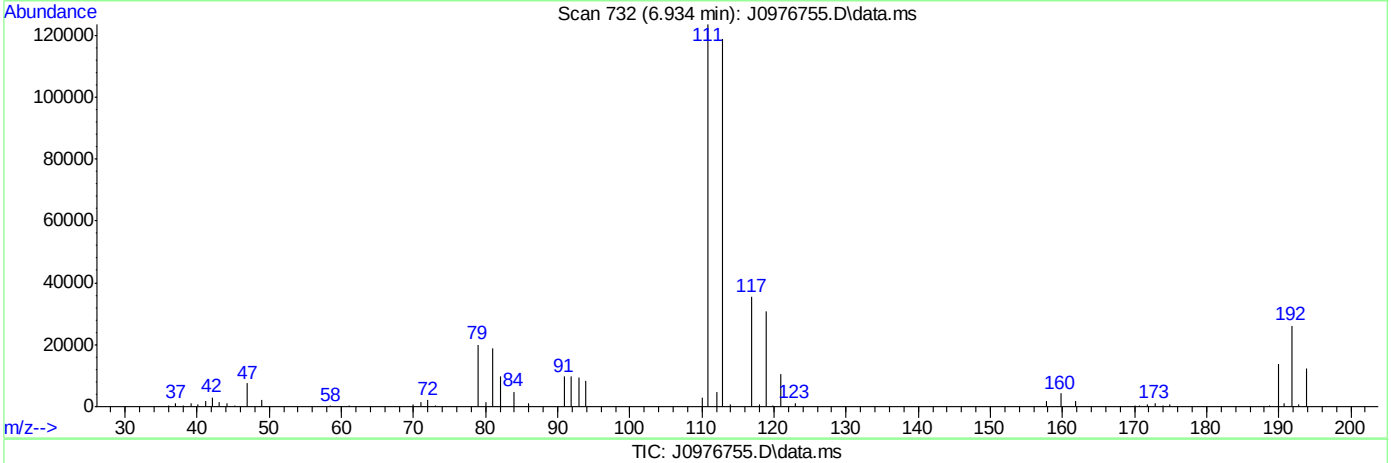
Response via : Initial Calibration





TIC: J0976755.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 11.28ug/L

response 101204

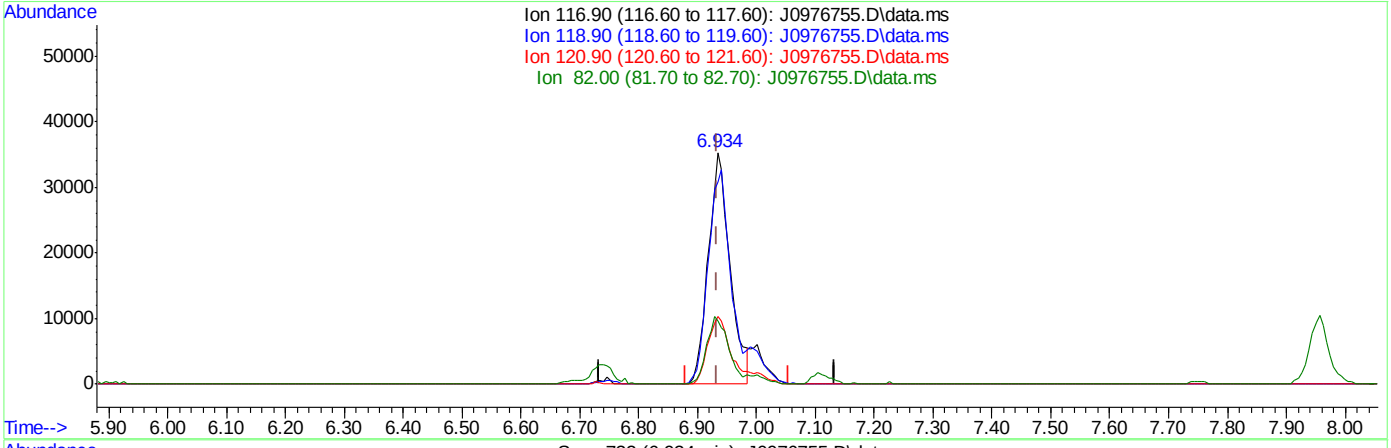
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	87.50
120.90	31.20	29.35
82.00	25.70	27.26

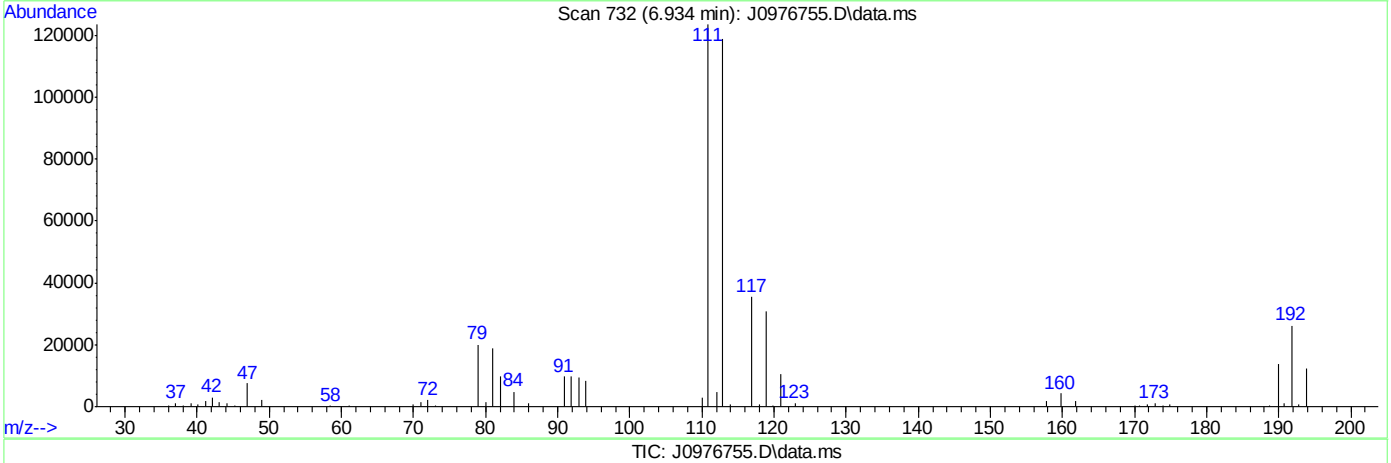
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976755.D
Acq On : 24 May 2016 11:18 am
Operator : DARSHNAP
Sample : ic5312-3 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 24 12:40:56 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976755.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 10.04ug/L m

response 90053

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	87.50
120.90	31.20	29.35
82.00	25.70	27.26

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:44:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1212019	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	987363	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	551283	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	80560	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	304787	50.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.38%			
46) 1,2-Dichloroethane-d4	7.482	65	341659	48.12	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.24%			
57) Toluene-d8	9.301	98	1239655	48.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.50%			
79) 4-Bromofluorobenzene	12.051	95	503413	50.08	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	182784	37.97	ug/L	100
3) Chloromethane	2.907	50	208672	33.40	ug/L	100
4) Vinyl Chloride	3.047	62	218598	32.09	ug/L	98
5) 1,3-Butadiene	3.035	54	98066	Below Cal		88
6) Bromomethane	3.467	94	132948	31.58	ug/L	93
7) Chloroethane	3.613	64	102620	34.33	ug/L	95
8) Trichlorofluoromethane	3.844	101	280378m	32.32	ug/L	
9) Ethyl Ether	4.118	59	129854	26.93	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.361	67	203480	27.50	ug/L	99
11) 1,1-Dichloroethene	4.404	61	253979	28.40	ug/L	97
12) Freon 113	4.471	101	175360	28.33	ug/L	96
13) Carbon Disulfide	4.477	76	572065	28.45	ug/L	100
14) Iodomethane	4.592	142	279052	28.01	ug/L	100
15) Allyl chloride	4.927	41	231749	30.10	ug/L	96
16) Methylene Chloride	5.049	49	226424	27.74	ug/L	98
17) Acetone	5.073	58	51339	137.88	ug/L	87
18) Methyl acetate	5.195	74	91855	131.13	ug/L #	92
19) trans-1,2-Dichloroethene	5.231	61	233364	28.28	ug/L	97
20) Hexane	5.304	56	155582	27.06	ug/L	96
21) Methyl Tert Butyl Ether	5.341	73	450864	25.38	ug/L	94
22) Acetonitrile	5.596	40	68949	302.05	ug/L	89
23) Di-isopropyl ether	5.718	45	507208	25.76	ug/L	98
24) Chloroprene	5.870	53	251869	31.23	ug/L	99
25) 1,1-Dichloroethane	5.900	63	306930	27.51	ug/L	95
26) Acrylonitrile	5.925	53	207403	140.57	ug/L	95
27) ETBE	6.119	59	526077	26.10	ug/L	99
28) Vinyl acetate	6.107	43	1397081	154.17	ug/L	100
29) cis-1,2-Dichloroethene	6.472	96	195380	27.46	ug/L	96
30) 2,2-Dichloropropane	6.606	77	244624	26.30	ug/L	97
31) Bromochloromethane	6.685	128	89442	26.75	ug/L	98
32) Cyclohexane	6.734	56	299313	28.69	ug/L	97
33) Chloroform	6.740	83	334285	27.38	ug/L	99
34) Ethyl acetate	6.807	43	493123	146.64	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:44:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	27252	26.65 ug/L	92
37) Carbon Tetrachloride	6.935	117	248811m	26.30 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	294960	27.05 ug/L	97
39) 2-Butanone	7.026	43	199643	125.29 ug/L	97
40) 1,1-Dichloropropene	7.105	75	236140	27.81 ug/L	97
41) tert-Butyl Formate	7.190	59	1105858	274.74 ug/L	98
42) Propionitrile	7.330	54	158668	293.93 ug/L #	73
43) Methacrylonitrile	7.360	41	651924	289.85 ug/L	98
44) Benzene	7.360	78	731829	26.99 ug/L	97
45) TAME	7.433	73	473767	25.44 ug/L	99
47) 1,2-Dichloroethane	7.549	62	223669	25.62 ug/L	97
48) Trichloroethene	7.938	95	187907	27.59 ug/L	96
49) Methylcyclohexane	7.957	83	326634	27.86 ug/L	96
50) Dibromomethane	8.364	93	95863	25.20 ug/L	95
51) 1,2-Dichloropropane	8.449	63	175981	26.57 ug/L	98
52) Bromodichloromethane	8.492	83	233789	26.65 ug/L	98
53) Methyl methacrylate	8.595	41	90370	27.36 ug/L	97
54) 2-Chloroethyl vinyl ether	9.009	63	427949	130.90 ug/L	99
55) cis-1,3-Dichloropropene	9.113	75	273585	26.95 ug/L	96
58) Toluene	9.356	91	775901	26.16 ug/L	100
59) 2-Nitropropane	9.557	41	129904	119.61 ug/L	92
60) 4-Methyl-2-pentanone	9.672	43	512902	116.91 ug/L	99
61) trans-1,3-Dichloropropene	9.739	75	227129	25.15 ug/L	97
62) Tetrachloroethene	9.757	166	193195	26.14 ug/L	98
63) Ethyl methacrylate	9.836	69	177358	26.59 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	124619	25.68 ug/L	97
65) Dibromochloromethane	10.104	129	160325	24.74 ug/L	94
66) 1,3-Dichloropropane	10.183	76	247480	25.12 ug/L	99
67) 1,2-Dibromoethane	10.360	107	136822	24.61 ug/L	94
68) 2-hexanone	10.487	43	356673	120.94 ug/L	99
69) 1-Chlorohexane	10.798	91	245131	27.92 ug/L	99
70) Ethylbenzene	10.858	91	895764	25.49 ug/L	97
71) Chlorobenzene	10.865	112	519437	25.61 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.913	131	174790	26.08 ug/L	99
73) m,p-Xylene	10.998	91	1362269	51.01 ug/L	96
74) o-Xylene	11.436	91	696953	26.30 ug/L	98
75) Styrene	11.485	104	541465	26.48 ug/L	98
76) Bromoform	11.546	173	98190	23.51 ug/L	98
77) Isopropylbenzene	11.741	105	839040	25.68 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.087	53	40662	24.28 ug/L	93
81) n-Propylbenzene	12.160	91	1024705	25.58 ug/L	97
82) Bromobenzene	12.185	156	229221	25.40 ug/L	94
83) 1,1,2,2-Tetrachloroethane	12.221	83	177270	24.59 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	765060	25.46 ug/L	99
85) 2-Chlorotoluene	12.349	91	714069	25.16 ug/L	100
86) trans-1,4-Dichloro-2-B...	12.398	53	37083	23.26 ug/L	92
87) 1,2,3-Trichloropropane	12.379	110	47630	25.03 ug/L	91
88) Cyclohexanone	12.446	55	24279	144.48 ug/L	91
89) 4-Chlorotoluene	12.519	91	661198	25.28 ug/L	99
90) a-Methyl Styrene	12.604	118	414235	27.20 ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:44:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.684	91	425807	25.72	ug/L	99
92) 1,2,4-Trimethylbenzene	12.750	105	766434	25.55	ug/L	98
93) Pentachloroethane	12.738	167	146469	26.73	ug/L	95
94) sec-Butylbenzene	12.866	105	928152	25.73	ug/L	99
95) 4-Isopropyltoluene	13.000	119	788164	27.33	ug/L	98
96) 1,3-Dichlorobenzene	13.134	146	406045	25.53	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	416926	25.29	ug/L	99
98) n-Butylbenzene	13.432	92	441423	26.69	ug/L	99
99) Benzyl Chloride	13.450	126	58856	22.71	ug/L #	84
100) 1,2-Dichlorobenzene	13.645	146	377763	25.52	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	23464	24.63	ug/L	97
102) Hexachlorobutadiene	14.928	225	164506	25.95	ug/L	97
103) 1,2,4-Trichlorobenzene	14.971	180	245215	24.26	ug/L	96
104) Naphthalene	15.257	128	350442	23.77	ug/L	97
105) 1,2,3-Trichlorobenzene	15.427	180	208712	24.83	ug/L	97
107) Ethanol	4.270	45	23040m	578.37	ug/L	
108) acrolein	4.763	56	91711	120.74	ug/L	98
109) Tert Butyl Alcohol	5.371	59	99521	245.13	ug/L	77
110) tert Amyl alcohol	7.573	59	75718	232.75	ug/L	99
111) Isobutyl alcohol	7.458	42	71040	494.95	ug/L #	82
112) 1,4-Dioxane	8.668	88	22613	492.53	ug/L	95
113) 3,3-Dimethyl-1-butanol	10.433	57	410448	1151.88	ug/L	98

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

7.6.14

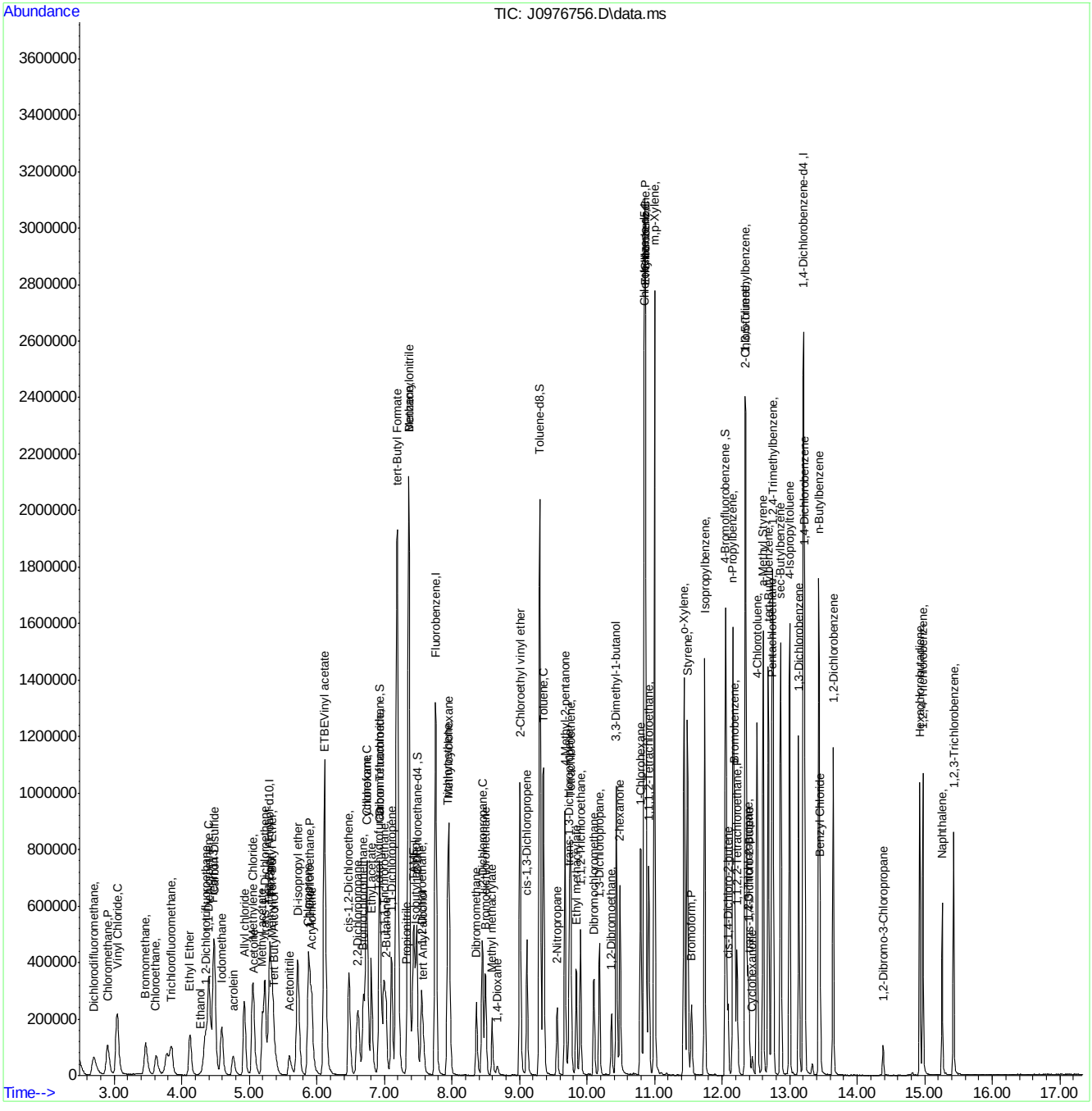
7

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:44:00 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



Manual Integration Approval Summary

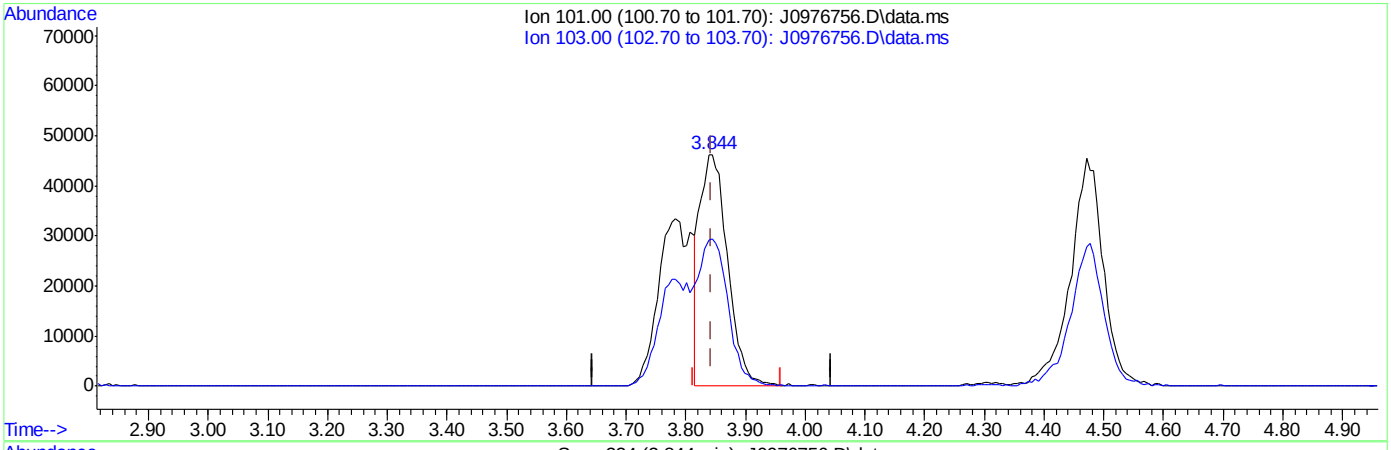
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976756.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 11:41	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

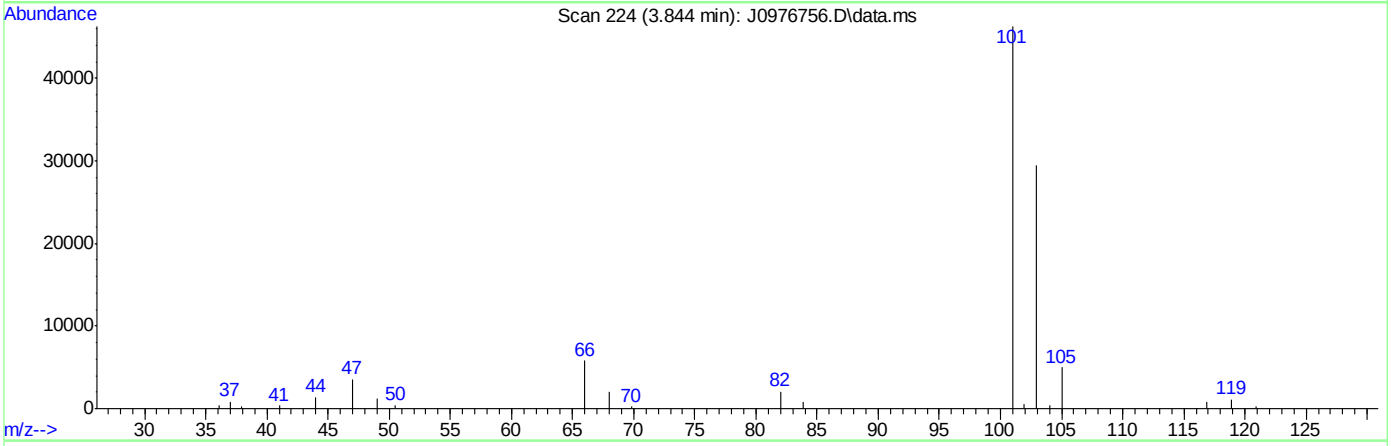
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 17.39ug/L

response 150833

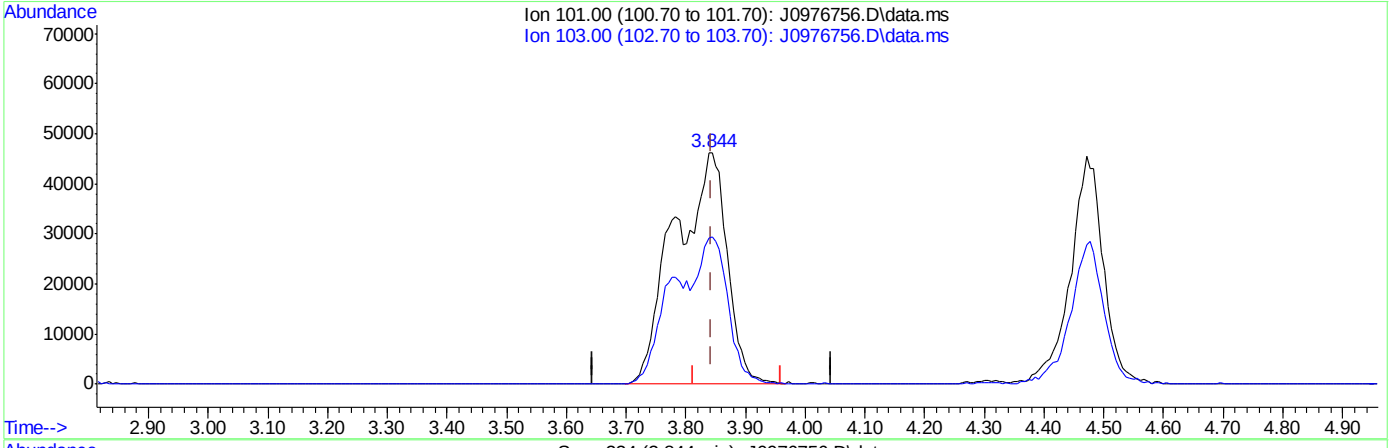
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	63.13
0.00	0.00	0.00
0.00	0.00	0.00

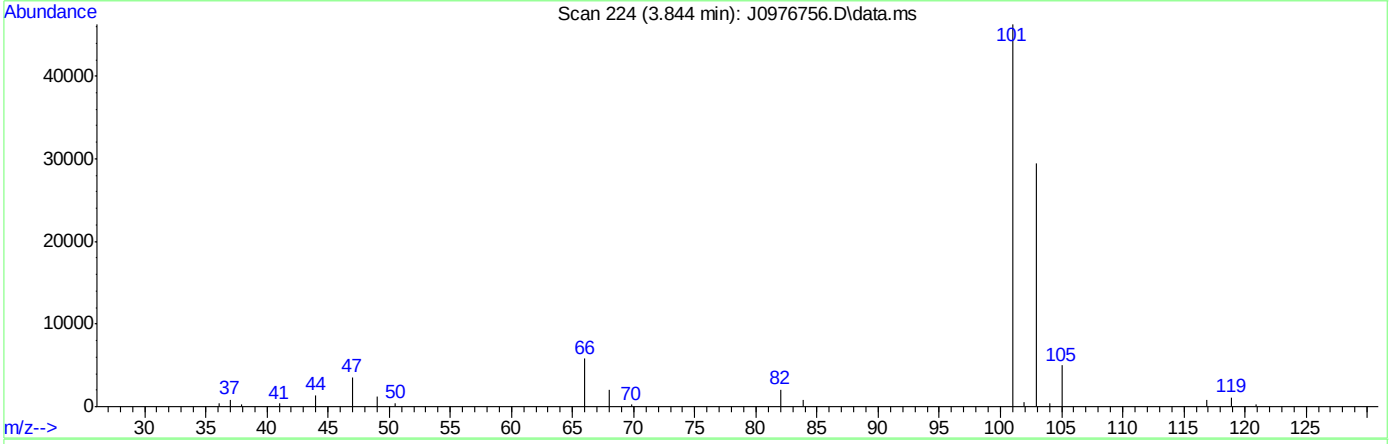
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.000) 32.32ug/L m

response 280378

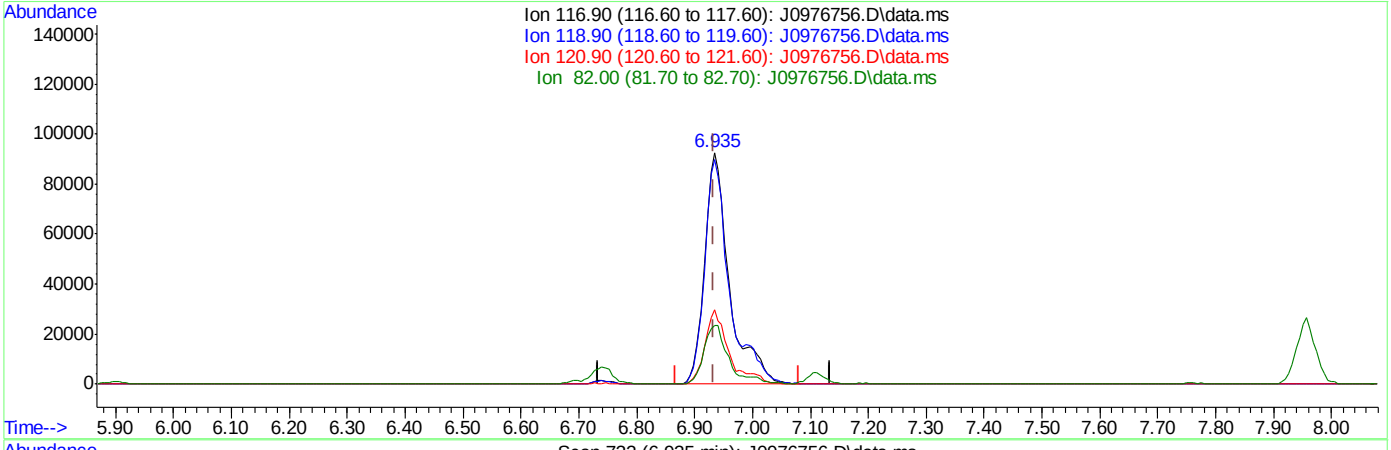
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	63.78
0.00	0.00	0.00
0.00	0.00	0.00

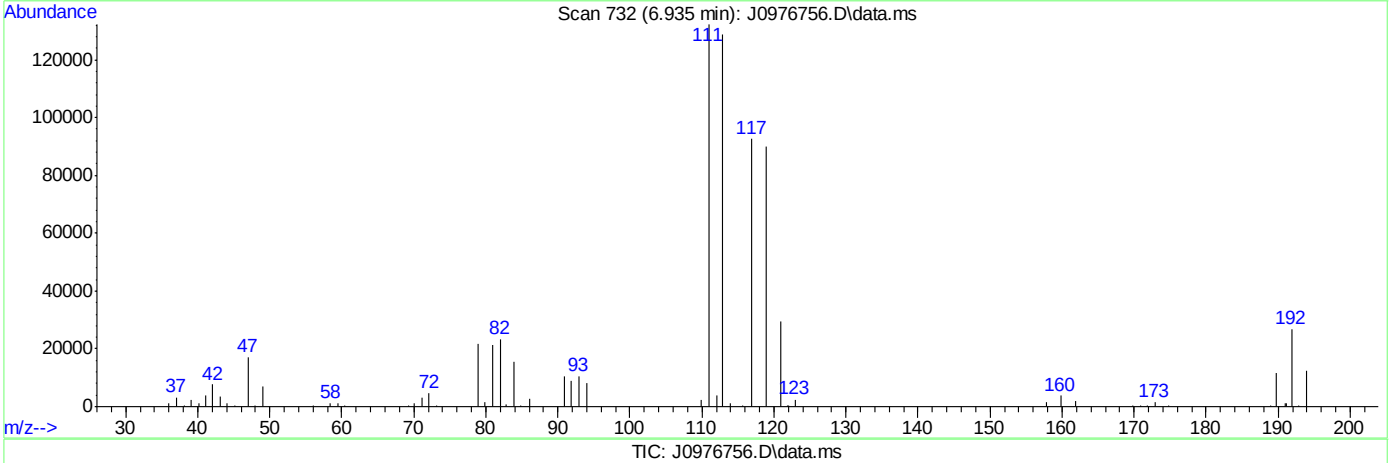
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 29.54ug/L

response 279494

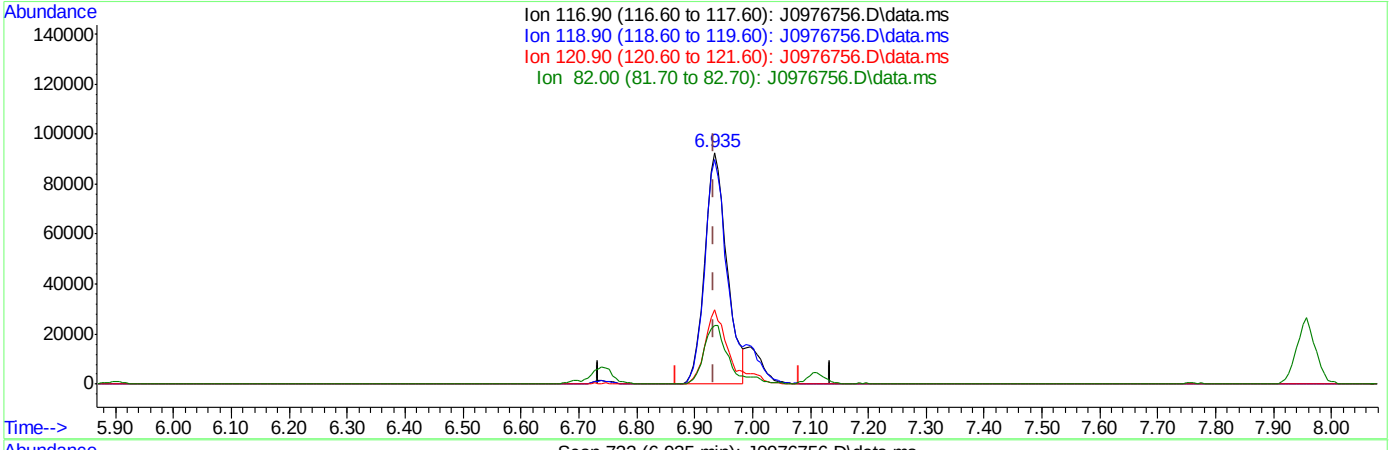
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	97.18
120.90	31.20	32.01
82.00	25.70	25.15

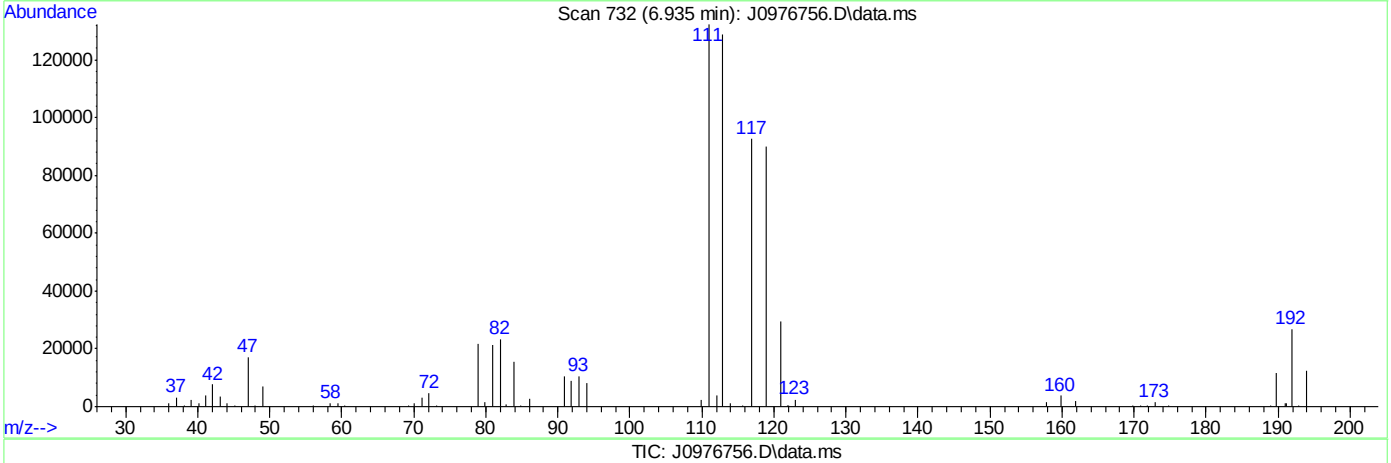
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (+0.001) 26.30ug/L m

response 248811

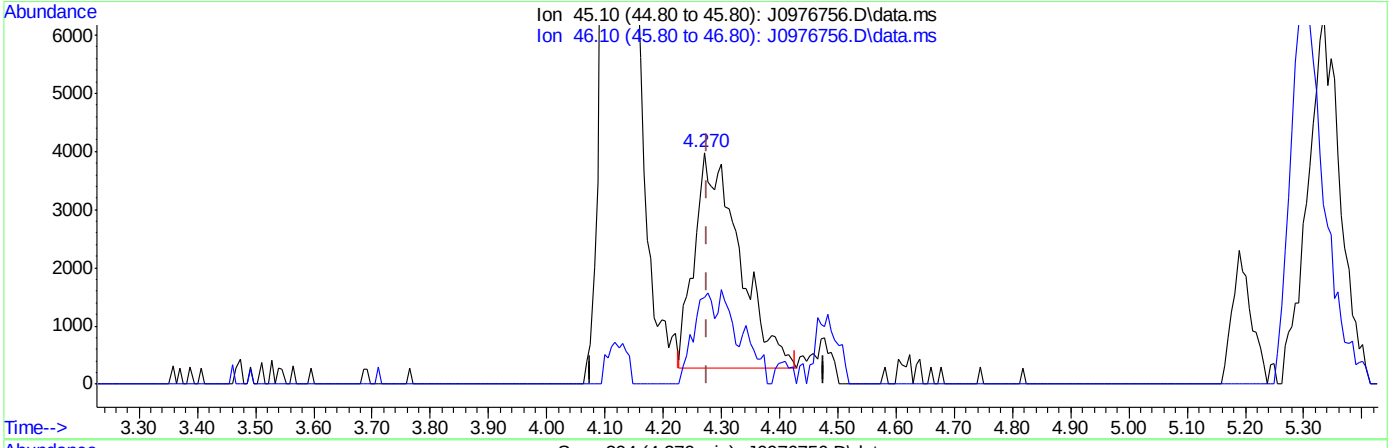
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	97.18
120.90	31.20	32.01
82.00	25.70	25.15

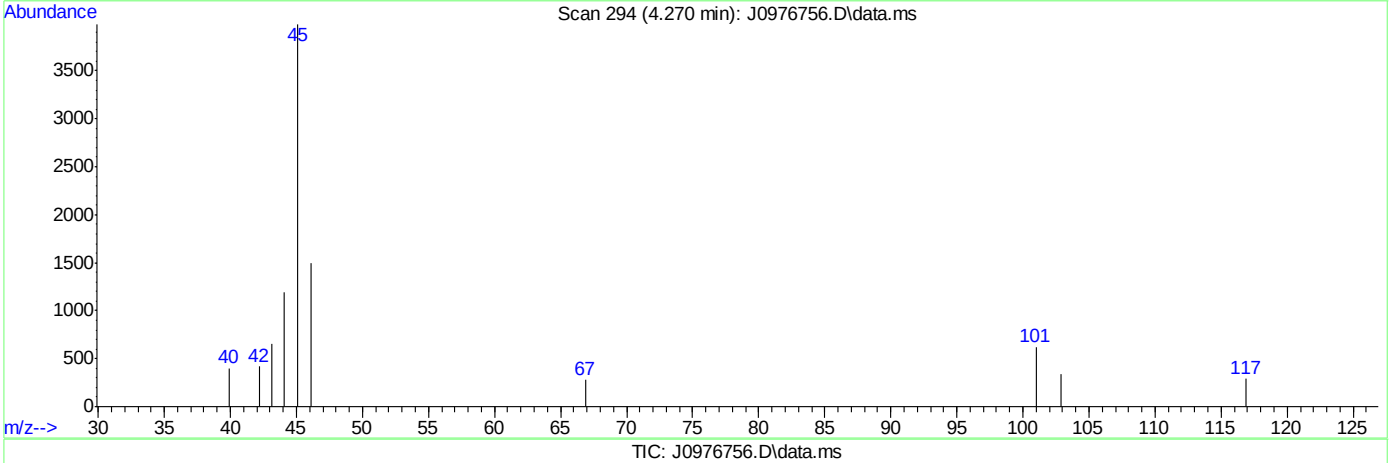
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(107) Ethanol

4.270min (-0.006) 496.73ug/L

response 19788

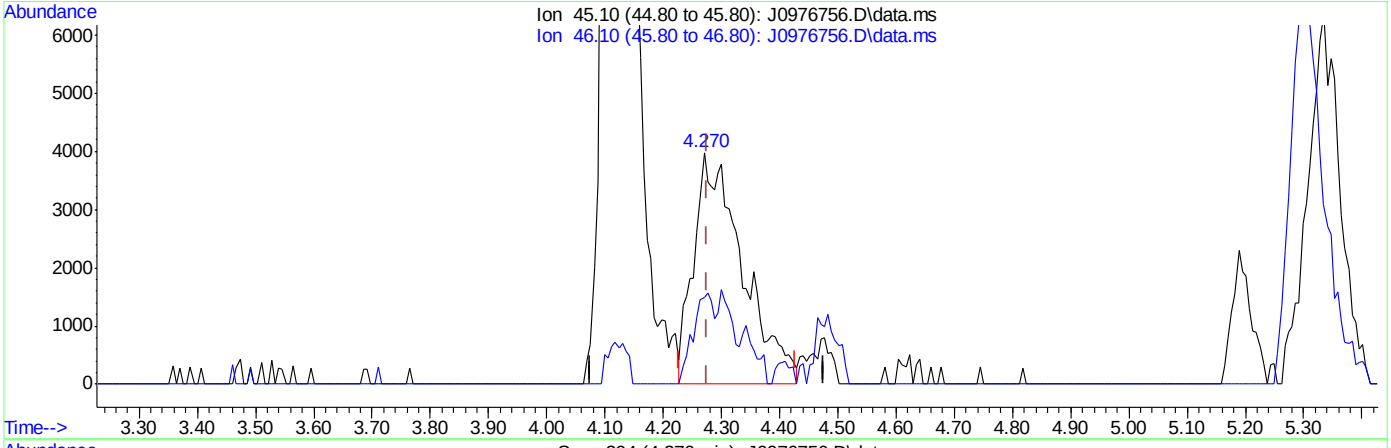
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	40.12
0.00	0.00	0.00
0.00	0.00	0.00

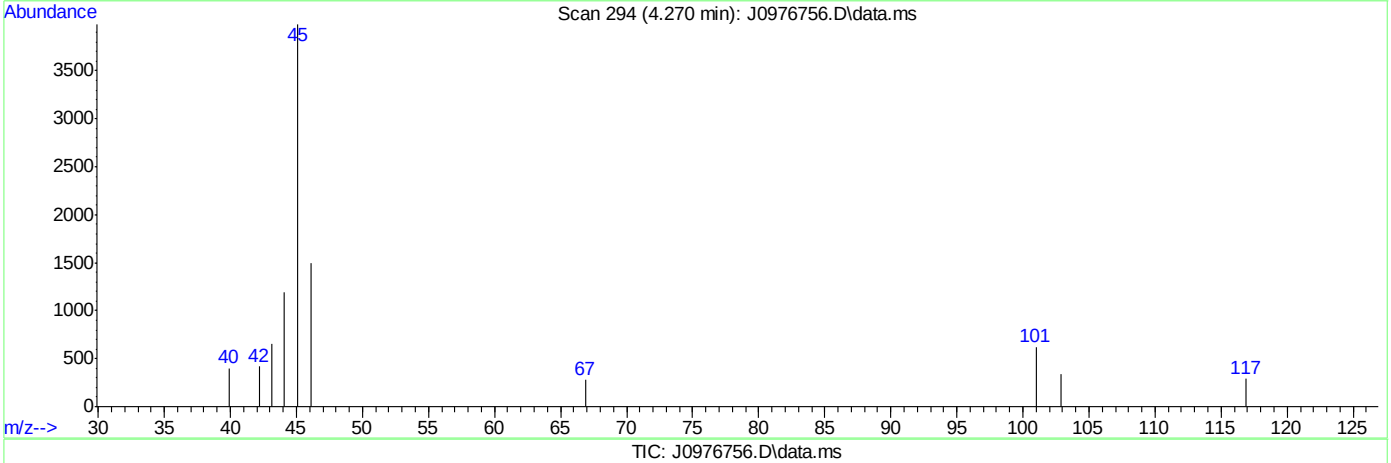
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976756.D
Acq On : 24 May 2016 11:41 am
Operator : DARSHNAP
Sample : ic5312-4 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 24 12:40:59 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976756.D\data.ms

(107) Ethanol

4.270min (-0.006) 578.37ug/L m

response 23040

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	37.40
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:44:30 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1225722	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1002461	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	584836	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.310	65	87450	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	311277	50.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.36%			
46) 1,2-Dichloroethane-d4	7.476	65	340565	47.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.86%			
57) Toluene-d8	9.301	98	1263033	48.92	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.84%			
79) 4-Bromofluorobenzene	12.051	95	526061	49.33	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.66%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	315334	62.56	ug/L	94
3) Chloromethane	2.901	50	358692	55.05	ug/L	99
4) Vinyl Chloride	3.047	62	354542	51.51	ug/L	96
5) 1,3-Butadiene	3.041	54	130479	Below Cal		87
6) Bromomethane	3.467	94	203171	50.94	ug/L	96
7) Chloroethane	3.619	64	150831	65.52	ug/L	92
8) Trichlorofluoromethane	3.838	101	462104m	52.67	ug/L	
9) Ethyl Ether	4.118	59	217182	44.72	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.361	67	328192	43.86	ug/L	97
11) 1,1-Dichloroethene	4.404	61	405177	44.40	ug/L	97
12) Freon 113	4.464	101	289413	45.92	ug/L	92
13) Carbon Disulfide	4.477	76	945255	45.80	ug/L	97
14) Iodomethane	4.586	142	469950	45.94	ug/L	98
15) Allyl chloride	4.927	41	341749	43.09	ug/L	96
16) Methylene Chloride	5.048	49	365226	44.77	ug/L	97
17) Acetone	5.067	58	80895	214.82	ug/L	97
18) Methyl acetate	5.194	74	156085	220.32	ug/L #	91
19) trans-1,2-Dichloroethene	5.231	61	367969	43.94	ug/L	96
20) Hexane	5.298	56	249420	42.90	ug/L	98
21) Methyl Tert Butyl Ether	5.341	73	760795	42.34	ug/L	96
22) Acetonitrile	5.590	40	106600	457.80	ug/L	92
23) Di-isopropyl ether	5.718	45	854962	42.93	ug/L	97
24) Chloroprene	5.876	53	352484	42.18	ug/L	98
25) 1,1-Dichloroethane	5.900	63	495760	44.22	ug/L	98
26) Acrylonitrile	5.925	53	373218	250.13	ug/L	97
27) ETBE	6.119	59	886178	43.47	ug/L	99
28) Vinyl acetate	6.107	43	2365398	258.11	ug/L	99
29) cis-1,2-Dichloroethene	6.478	96	324861	44.88	ug/L	93
30) 2,2-Dichloropropane	6.606	77	407593	43.32	ug/L	98
31) Bromochloromethane	6.691	128	149588	44.30	ug/L	95
32) Cyclohexane	6.740	56	485151	45.98	ug/L	97
33) Chloroform	6.740	83	535807	43.78	ug/L	99
34) Ethyl acetate	6.807	43	833565	245.10	ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:44:30 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	46645	44.89 ug/L	95
37) Carbon Tetrachloride	6.934	117	406273m	42.46 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	479122	43.44 ug/L	99
39) 2-Butanone	7.026	43	327146	205.45 ug/L	97
40) 1,1-Dichloropropene	7.105	75	379013	44.13 ug/L	99
41) tert-Butyl Formate	7.190	59	1906427	468.34 ug/L	99
42) Propionitrile	7.336	54	251514	460.72 ug/L	96
43) Methacrylonitrile	7.360	41	975851	429.02 ug/L	98
44) Benzene	7.360	78	1170009	43.54 ug/L	98
45) TAME	7.433	73	806167	42.81 ug/L	97
47) 1,2-Dichloroethane	7.549	62	357490	41.58 ug/L	99
48) Trichloroethene	7.932	95	297871	43.57 ug/L	98
49) Methylcyclohexane	7.956	83	539697	45.51 ug/L	97
50) Dibromomethane	8.358	93	158522	41.21 ug/L	97
51) 1,2-Dichloropropane	8.449	63	293422	44.31 ug/L	98
52) Bromodichloromethane	8.492	83	379537	43.26 ug/L	96
53) Methyl methacrylate	8.589	41	143264	42.73 ug/L	94
54) 2-Chloroethyl vinyl ether	9.009	63	712741	217.84 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	459449	44.75 ug/L	97
58) Toluene	9.356	91	1245585	42.26 ug/L	99
59) 2-Nitropropane	9.556	41	218006	200.62 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	801784	184.79 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	383312	41.80 ug/L	99
62) Tetrachloroethene	9.757	166	324634	43.26 ug/L	97
63) Ethyl methacrylate	9.836	69	286091	41.73 ug/L	98
64) 1,1,2-Trichloroethane	9.903	83	206416	42.41 ug/L	98
65) Dibromochloromethane	10.098	129	277090	42.16 ug/L	97
66) 1,3-Dichloropropane	10.183	76	410805	41.75 ug/L	98
67) 1,2-Dibromoethane	10.359	107	232359	41.17 ug/L	97
68) 2-hexanone	10.487	43	556685	185.91 ug/L	98
69) 1-Chlorohexane	10.797	91	401578	45.05 ug/L	97
70) Ethylbenzene	10.858	91	1451716	42.21 ug/L	99
71) Chlorobenzene	10.864	112	855946	42.49 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	289477	42.52 ug/L	98
73) m,p-Xylene	10.998	91	2181801	85.22 ug/L	99
74) o-Xylene	11.436	91	1152587	42.84 ug/L	100
75) Styrene	11.485	104	915733	44.11 ug/L	99
76) Bromoform	11.546	173	173937	40.82 ug/L	97
77) Isopropylbenzene	11.740	105	1376053	42.44 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.087	53	67156	37.79 ug/L	91
81) n-Propylbenzene	12.160	91	1653257	40.52 ug/L	99
82) Bromobenzene	12.185	156	382513	40.51 ug/L	94
83) 1,1,2,2-Tetrachloroethane	12.221	83	295214	39.41 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	1269744	40.97 ug/L	100
85) 2-Chlorotoluene	12.349	91	1176883	40.46 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.397	53	62344	36.87 ug/L	87
87) 1,2,3-Trichloropropane	12.379	110	79059	39.92 ug/L	94
88) Cyclohexanone	12.446	55	44310	247.82 ug/L	94
89) 4-Chlorotoluene	12.519	91	1093947	40.50 ug/L	100
90) a-Methyl Styrene	12.604	118	665443	40.96 ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:44:30 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	698270	40.34	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	1267226	41.02	ug/L	99
93) Pentachloroethane	12.738	167	222141	38.00	ug/L	96
94) sec-Butylbenzene	12.866	105	1507448	40.62	ug/L	99
95) 4-Isopropyltoluene	13.000	119	1307019	42.72	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	679957	40.87	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	698744	40.75	ug/L	98
98) n-Butylbenzene	13.432	92	732168	41.73	ug/L	99
99) Benzyl Chloride	13.444	126	108232	39.28	ug/L #	11
100) 1,2-Dichlorobenzene	13.645	146	632441	40.91	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	42091	41.46	ug/L	92
102) Hexachlorobutadiene	14.928	225	275993	40.60	ug/L	99
103) 1,2,4-Trichlorobenzene	14.971	180	444142	41.61	ug/L	99
104) Naphthalene	15.257	128	645119	41.27	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	367673	41.19	ug/L	99
107) Ethanol	4.282	45	38026	879.35	ug/L	98
108) acrolein	4.763	56	150573	182.61	ug/L	99
109) Tert Butyl Alcohol	5.383	59	174060	403.34	ug/L	94
110) tert Amyl alcohol	7.573	59	134666	389.32	ug/L	93
111) Isobutyl alcohol	7.452	42	110337	730.06	ug/L	98
112) 1,4-Dioxane	8.668	88	41153	841.39	ug/L	96
113) 3,3-Dimethyl-1-butanol	10.432	57	738416	1946.33	ug/L	98

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

7.6.15

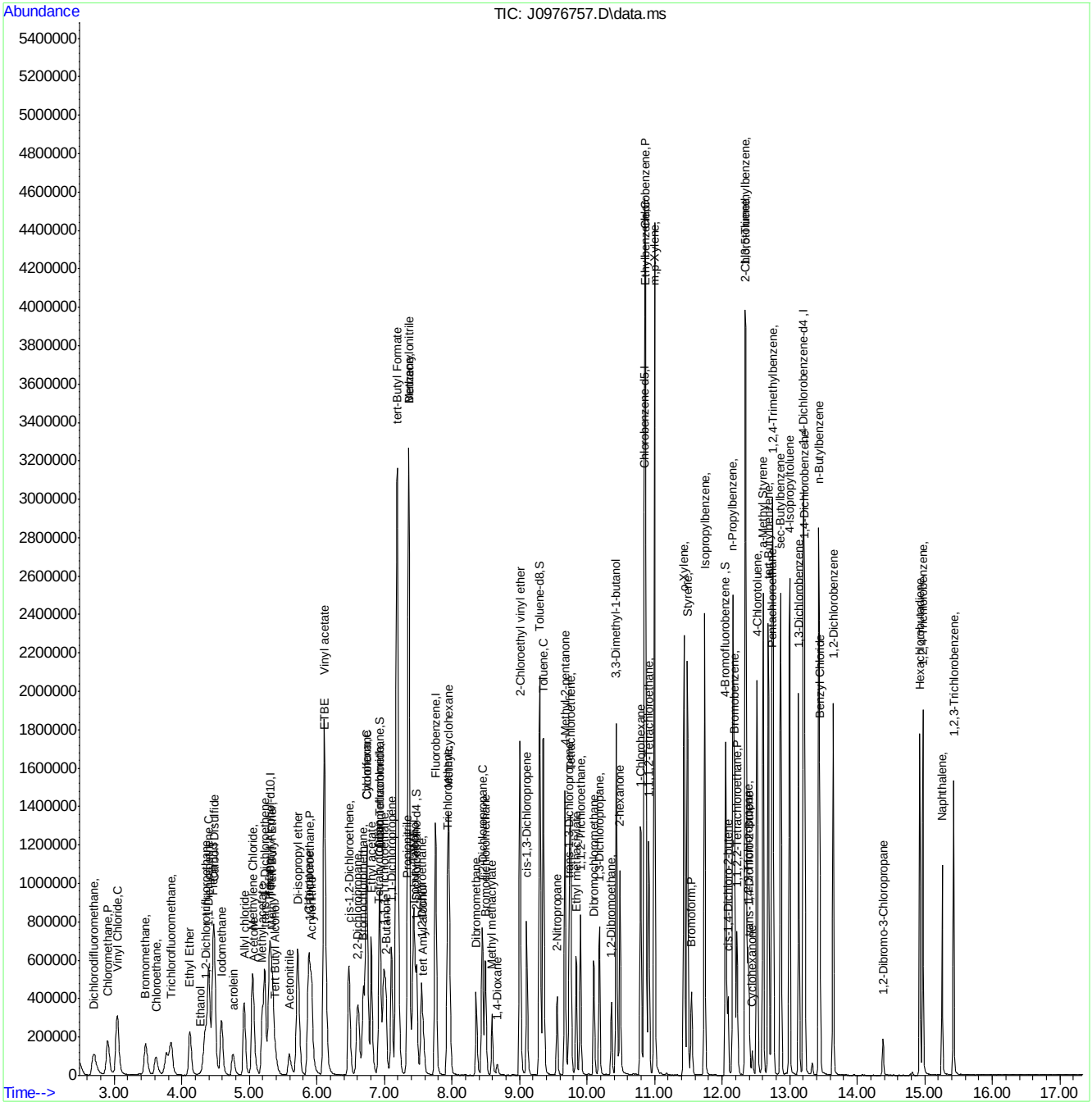
7

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:44:30 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

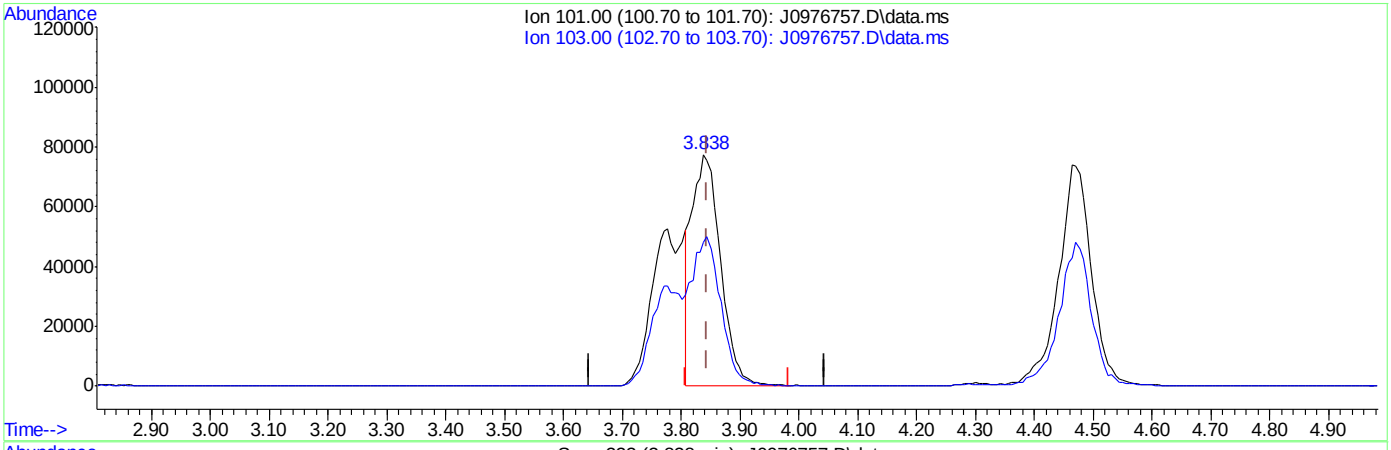
Sample Number:	VJ5312-ICC5312	**Method:**	SW846 8260B
Lab FileID:	J0976757.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 12:04	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

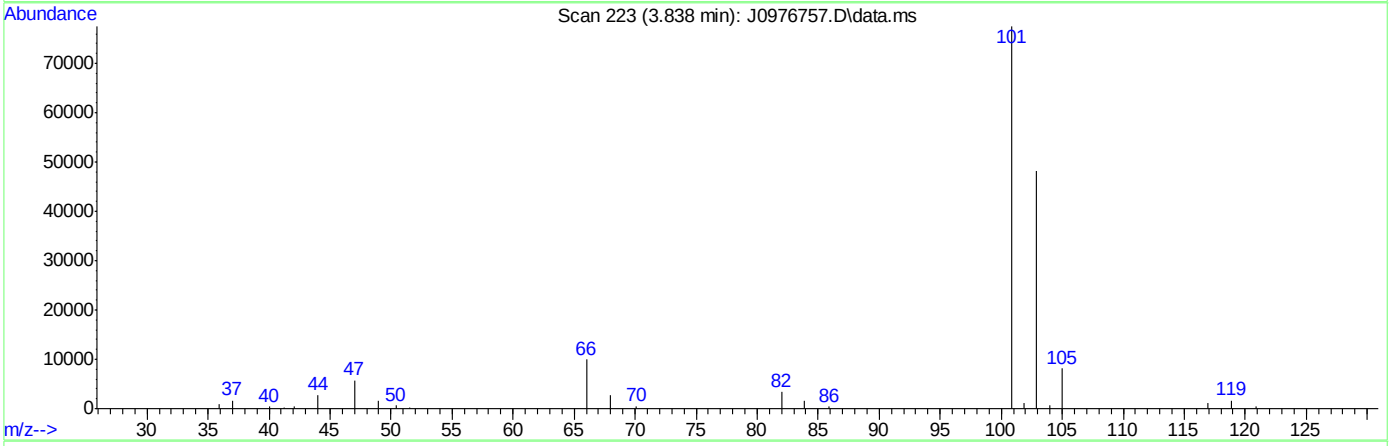
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:41:02 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.838min (-0.006) 29.91ug/L

response 262362

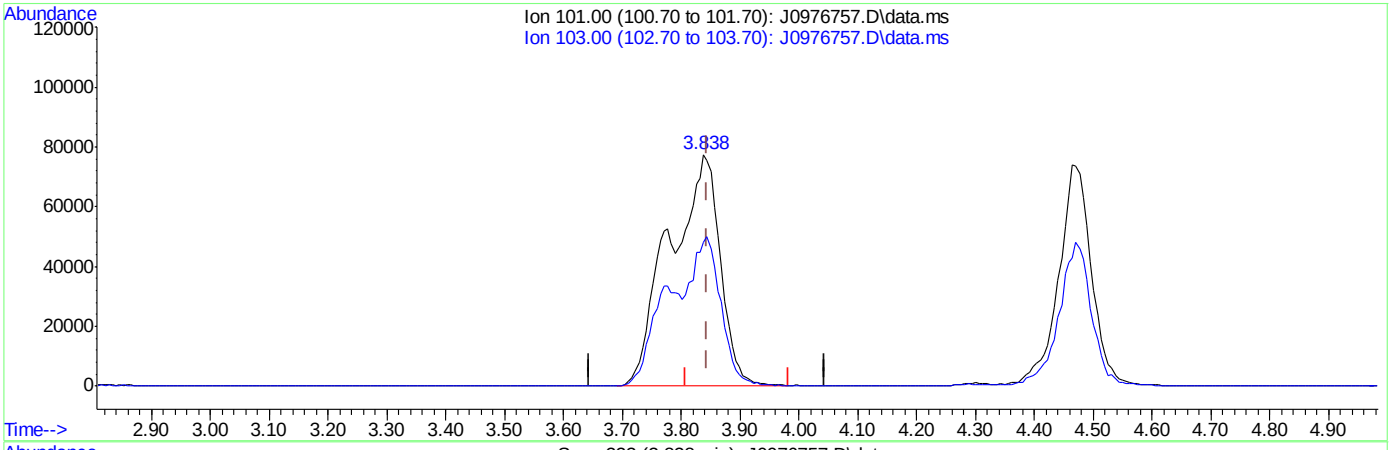
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	62.28
0.00	0.00	0.00
0.00	0.00	0.00

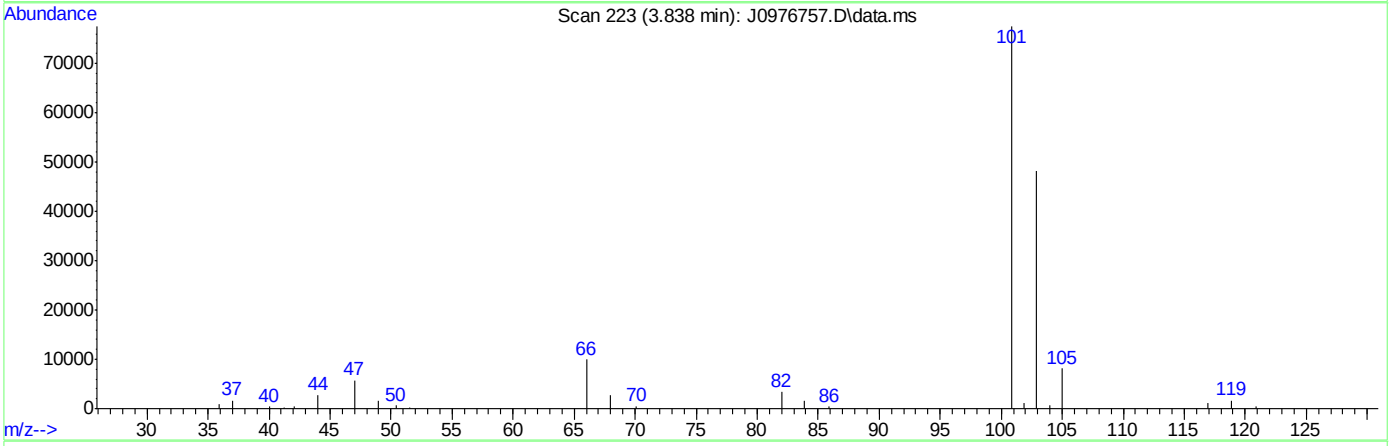
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:41:02 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976757.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.006) 52.67ug/L m

response 462104

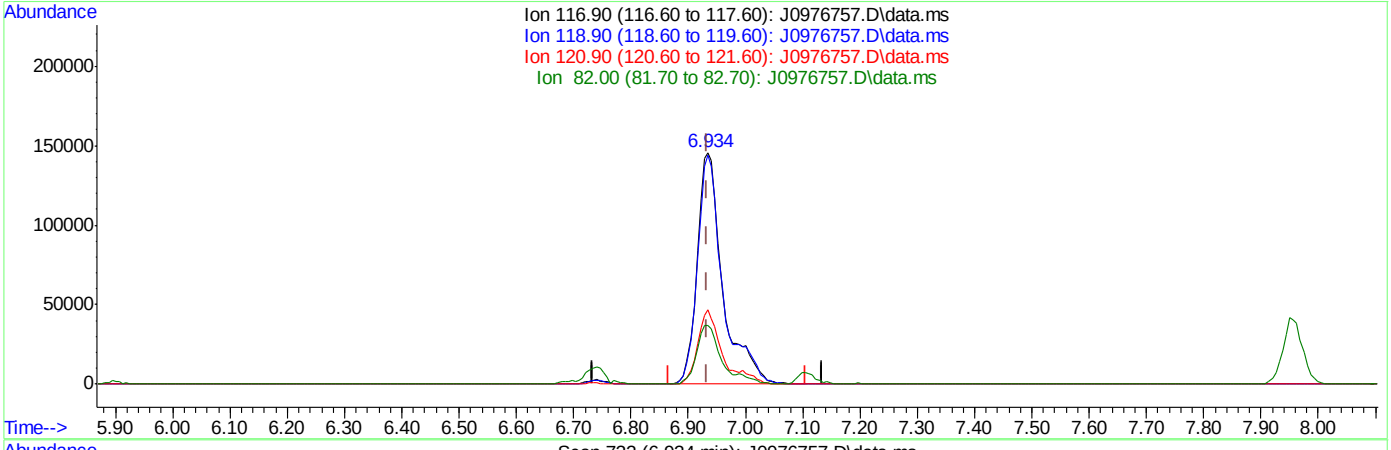
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	62.28
0.00	0.00	0.00
0.00	0.00	0.00

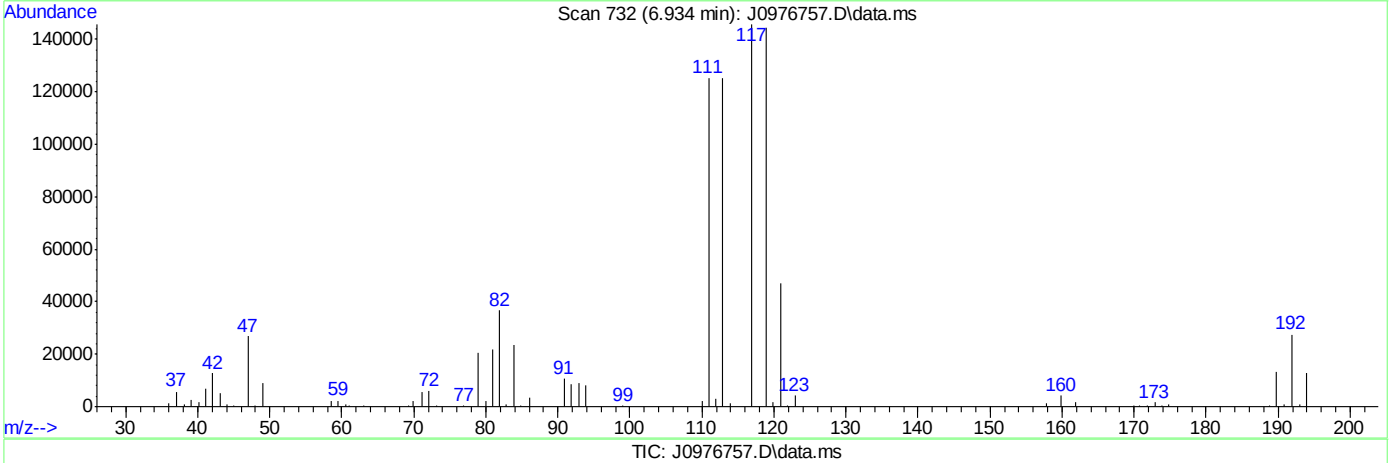
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:41:02 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976757.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 47.76ug/L

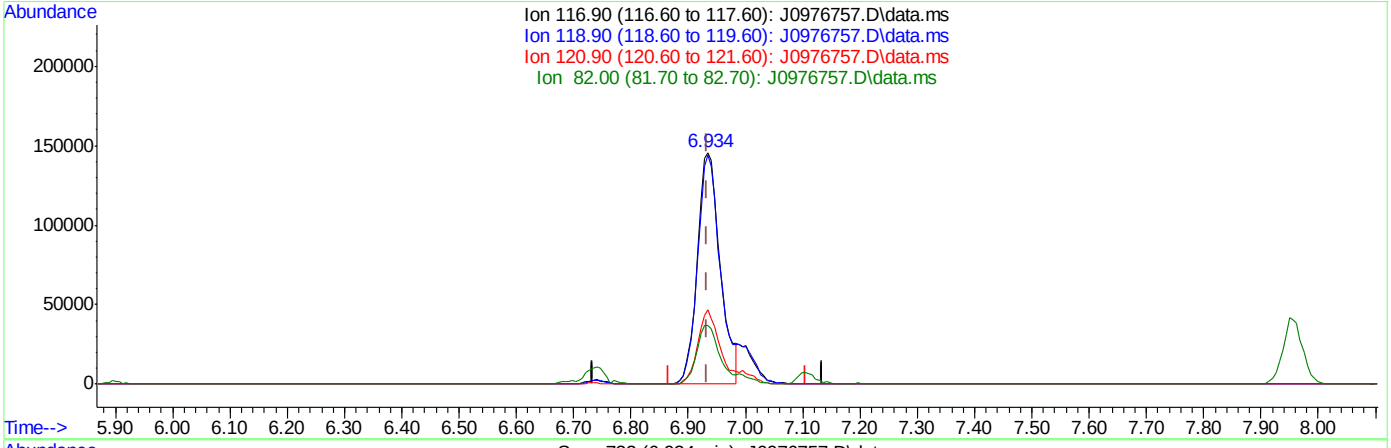
response 457008

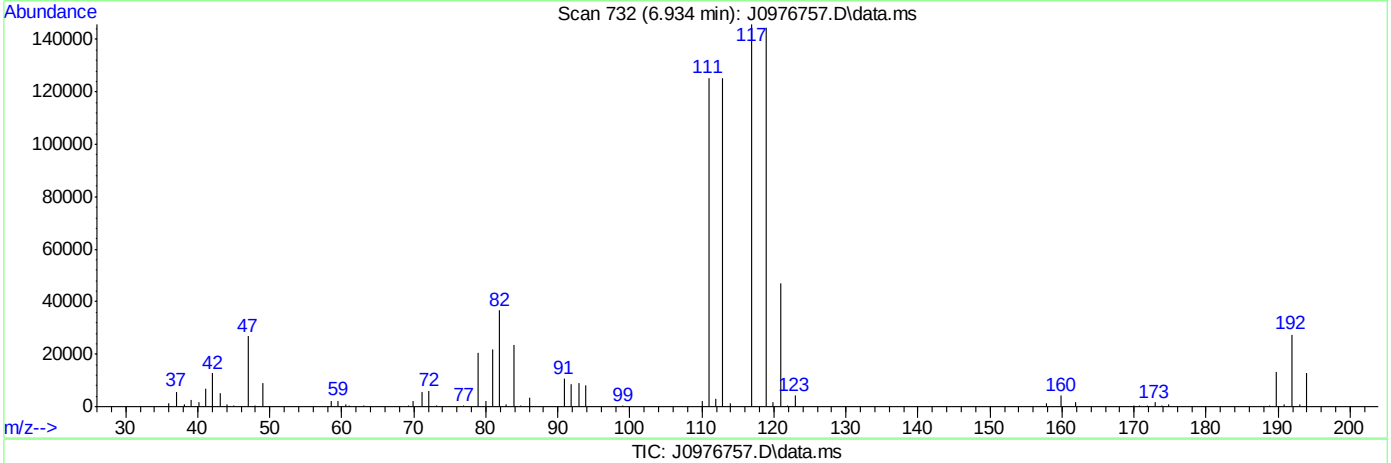
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	99.08
120.90	31.20	32.20
82.00	25.70	25.20

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976757.D
Acq On : 24 May 2016 12:04 pm
Operator : DARSHNAP
Sample : icc5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 24 12:41:02 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976757.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 42.46ug/L m

response 406273

Ion	Exp%	Act%
116.90	100	100
118.90	97.10	99.08
120.90	31.20	32.20
82.00	25.70	25.20

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:45:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1280904	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1065767	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	600882	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	93305	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	327987	51.10	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.20%			
46) 1,2-Dichloroethane-d4	7.482	65	356013	47.45	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.90%			
57) Toluene-d8	9.301	98	1314963	47.91	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.82%			
79) 4-Bromofluorobenzene	12.051	95	550160	50.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	622649	110.81	ug/L	95
3) Chloromethane	2.913	50	665990	92.89	ug/L	99
4) Vinyl Chloride	3.059	62	653261	90.98	ug/L	97
5) 1,3-Butadiene	3.047	54	290472	Below Cal		89
6) Bromomethane	3.473	94	323465	89.77	ug/L	99
7) Chloroethane	3.619	64	208928	Below Cal		94
8) Trichlorofluoromethane	3.844	101	871393m	95.05	ug/L	
9) Ethyl Ether	4.118	59	394714	78.42	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.367	67	629702	80.53	ug/L	95
11) 1,1-Dichloroethene	4.398	61	791855	81.39	ug/L	94
12) Freon 113	4.471	101	557625	83.45	ug/L	96
13) Carbon Disulfide	4.477	76	1845406	82.93	ug/L	97
14) Iodomethane	4.586	142	894383	81.23	ug/L	98
15) Allyl chloride	4.927	41	705084	80.77	ug/L	97
16) Methylene Chloride	5.048	49	647938	77.82	ug/L	93
17) Acetone	5.073	58	152083	386.47	ug/L	100
18) Methyl acetate	5.194	74	287873	388.85	ug/L #	89
19) trans-1,2-Dichloroethene	5.231	61	698629	79.22	ug/L	92
20) Hexane	5.298	56	470650	77.47	ug/L	94
21) Methyl Tert Butyl Ether	5.341	73	1391651	74.11	ug/L	94
22) Acetonitrile	5.590	40	196485	792.83	ug/L	96
23) Di-isopropyl ether	5.718	45	1559800	74.95	ug/L	97
24) Chloroprene	5.876	53	812931	85.04	ug/L	95
25) 1,1-Dichloroethane	5.900	63	915587	79.22	ug/L	94
26) Acrylonitrile	5.925	53	588960	377.72	ug/L	95
27) ETBE	6.119	59	1615249	75.83	ug/L	98
28) Vinyl acetate	6.107	43	3735550	390.05	ug/L	98
29) cis-1,2-Dichloroethene	6.478	96	607557	79.41	ug/L	92
30) 2,2-Dichloropropane	6.612	77	769952	78.32	ug/L	100
31) Bromochloromethane	6.691	128	274584	77.99	ug/L	93
32) Cyclohexane	6.734	56	954159	86.54	ug/L	96
33) Chloroform	6.740	83	991879	79.08	ug/L	98
34) Ethyl acetate	6.807	43	1362592	383.39	ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:45:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	80986	74.03	ug/L	88
37) Carbon Tetrachloride	6.934	117	792008m	79.20	ug/L	
38) 1,1,1-Trichloroethane	6.995	97	907614	78.75	ug/L	97
39) 2-Butanone	7.026	43	603289	371.80	ug/L	100
40) 1,1-Dichloropropene	7.105	75	729786	81.32	ug/L	98
41) tert-Butyl Formate	7.190	59	3586162	843.04	ug/L	96
42) Propionitrile	7.336	54	435213	762.87	ug/L	96
43) Methacrylonitrile	7.360	41	1686249	709.40	ug/L	98
44) Benzene	7.360	78	2157111	80.49	ug/L	99
45) TAME	7.433	73	1484944	75.45	ug/L	99
47) 1,2-Dichloroethane	7.549	62	635915	74.95	ug/L	99
48) Trichloroethene	7.938	95	559244	79.67	ug/L	94
49) Methylcyclohexane	7.956	83	1057346	85.32	ug/L	98
50) Dibromomethane	8.358	93	291451	72.50	ug/L	95
51) 1,2-Dichloropropane	8.449	63	527685	77.95	ug/L	97
52) Bromodichloromethane	8.492	83	691449	77.18	ug/L	99
53) Methyl methacrylate	8.589	41	265411	75.15	ug/L	98
54) 2-Chloroethyl vinyl ether	9.009	63	1319769	394.44	ug/L	98
55) cis-1,3-Dichloropropene	9.112	75	837237	78.03	ug/L	94
58) Toluene	9.356	91	2253925	75.31	ug/L	95
59) 2-Nitropropane	9.556	41	388103	344.94	ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	1475595	340.70	ug/L	96
61) trans-1,3-Dichloropropene	9.733	75	698358	71.64	ug/L	97
62) Tetrachloroethene	9.757	166	643154	80.61	ug/L	99
63) Ethyl methacrylate	9.836	69	540758	72.42	ug/L	96
64) 1,1,2-Trichloroethane	9.903	83	366150	72.34	ug/L	99
65) Dibromochloromethane	10.098	129	509446	73.09	ug/L	98
66) 1,3-Dichloropropane	10.183	76	738285	72.84	ug/L	99
67) 1,2-Dibromoethane	10.359	107	424028	70.66	ug/L	96
68) 2-hexanone	10.487	43	1045178	328.32	ug/L	98
69) 1-Chlorohexane	10.797	91	787816	83.13	ug/L	95
70) Ethylbenzene	10.858	91	2577442	76.34	ug/L	97
71) Chlorobenzene	10.864	112	1553308	75.85	ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	531891	73.42	ug/L	98
73) m,p-Xylene	10.998	91	3714416	155.30	ug/L	92
74) o-Xylene	11.436	91	2107384	73.67	ug/L	97
75) Styrene	11.485	104	1709393	77.45	ug/L	100
76) Bromoform	11.546	173	331907	72.62	ug/L	98
77) Isopropylbenzene	11.740	105	2512932	76.46	ug/L	97
80) cis-1,4-Dichloro-2-butene	12.087	53	129211	70.77	ug/L	92
81) n-Propylbenzene	12.160	91	2954740	78.93	ug/L	96
82) Bromobenzene	12.185	156	707927	75.37	ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.221	83	526638	71.72	ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	2291839	77.14	ug/L	94
85) 2-Chlorotoluene	12.349	91	2126044	77.73	ug/L	97
86) trans-1,4-Dichloro-2-B...	12.397	53	121415	69.88	ug/L	89
87) 1,2,3-Trichloropropane	12.379	110	139140	71.29	ug/L	96
88) Cyclohexanone	12.446	55	78988	427.82	ug/L	94
89) 4-Chlorotoluene	12.519	91	1979230	76.16	ug/L	95
90) a-Methyl Styrene	12.604	118	1303362	76.98	ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:45:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	1293265	75.39	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	2258811	76.44	ug/L	96
93) Pentachloroethane	12.738	167	417515	68.45	ug/L	96
94) sec-Butylbenzene	12.866	105	2716321	77.14	ug/L	96
95) 4-Isopropyltoluene	13.000	119	2365311	75.25	ug/L	96
96) 1,3-Dichlorobenzene	13.134	146	1229713	74.23	ug/L	99
97) 1,4-Dichlorobenzene	13.219	146	1258959	74.77	ug/L	98
98) n-Butylbenzene	13.432	92	1373052	76.16	ug/L	91
99) Benzyl Chloride	13.444	126	204299	71.88	ug/L #	24
100) 1,2-Dichlorobenzene	13.645	146	1137000	74.13	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	76066	72.31	ug/L	95
102) Hexachlorobutadiene	14.928	225	538787	75.26	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	812463	74.69	ug/L	99
104) Naphthalene	15.257	128	1199196	74.70	ug/L	98
105) 1,2,3-Trichlorobenzene	15.427	180	673961	73.33	ug/L	97
107) Ethanol	4.288	45	69337m	1502.80	ug/L	
108) acrolein	4.756	56	286868	326.08	ug/L	100
109) Tert Butyl Alcohol	5.377	59	321071	729.27	ug/L	92
110) tert Amyl alcohol	7.573	59	248936	704.16	ug/L	100
111) Isobutyl alcohol	7.452	42	198629	1338.94	ug/L	95
112) 1,4-Dioxane	8.674	88	73716	1461.95	ug/L	94
113) 3,3-Dimethyl-1-butanol	10.432	57	1496476	3881.83	ug/L	98

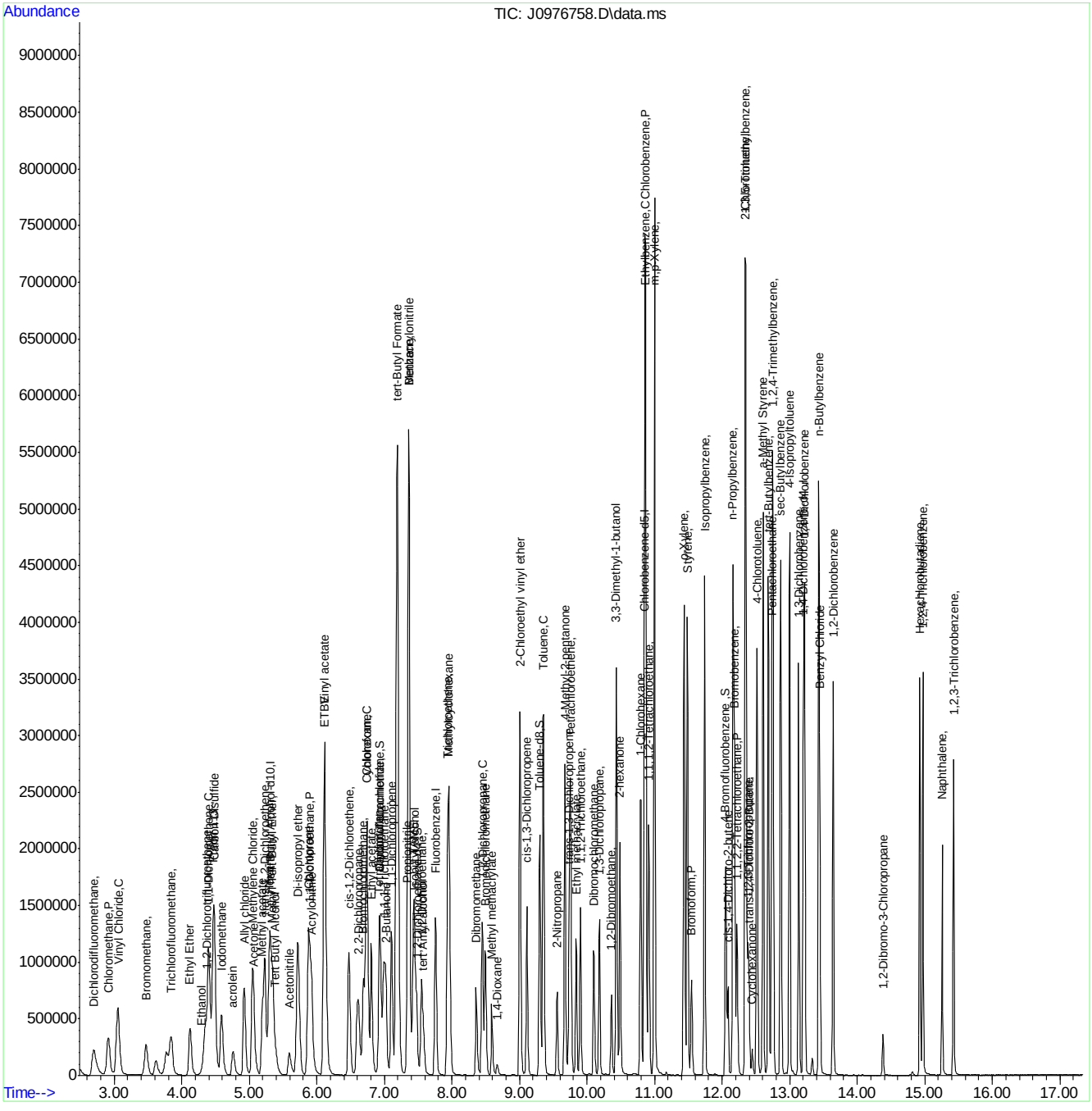
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:45:55 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



MSJ052316a.M Wed May 25 08:16:19 2016 Page: 4

Manual Integration Approval Summary

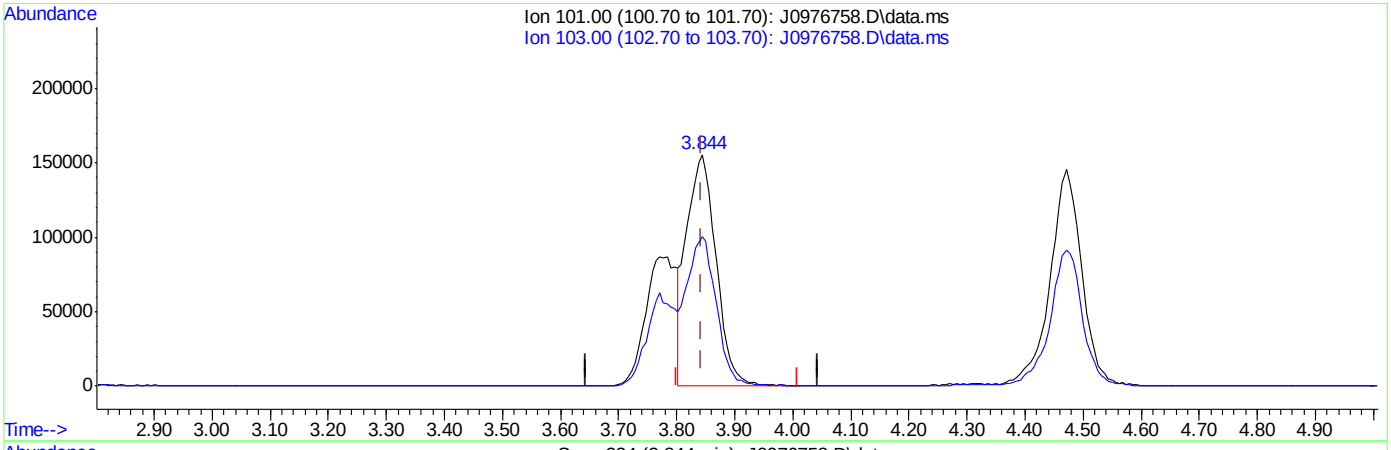
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976758.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 12:27	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

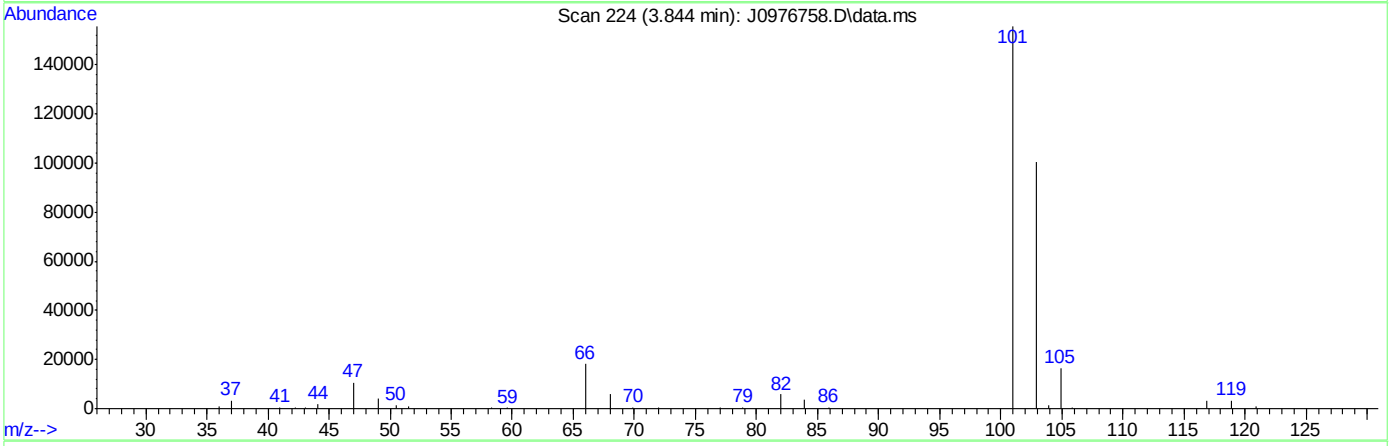
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (-0.000) 60.14ug/L

response 551340

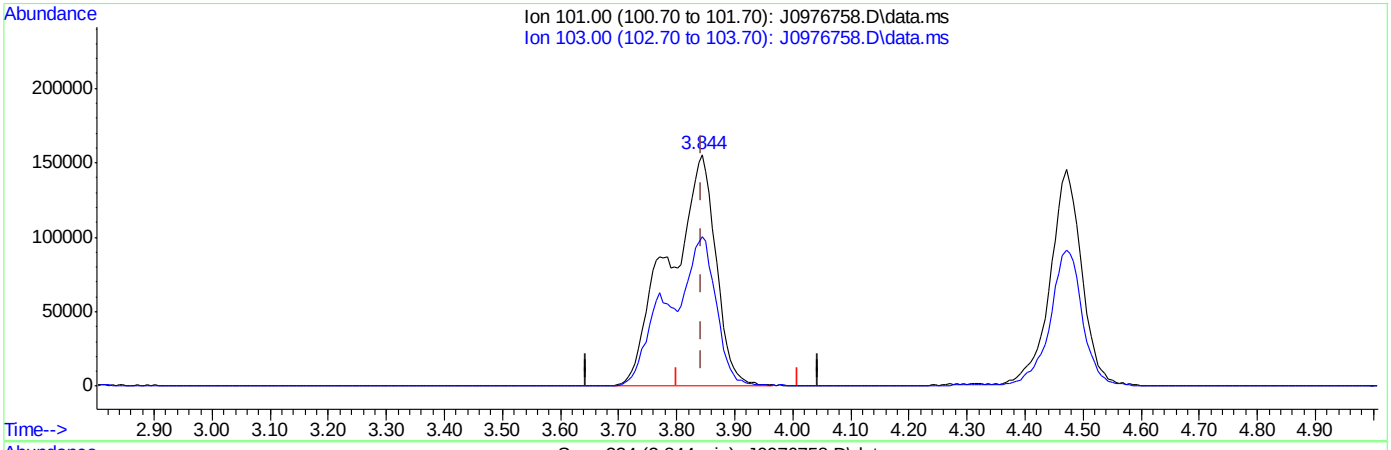
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.47
0.00	0.00	0.00
0.00	0.00	0.00

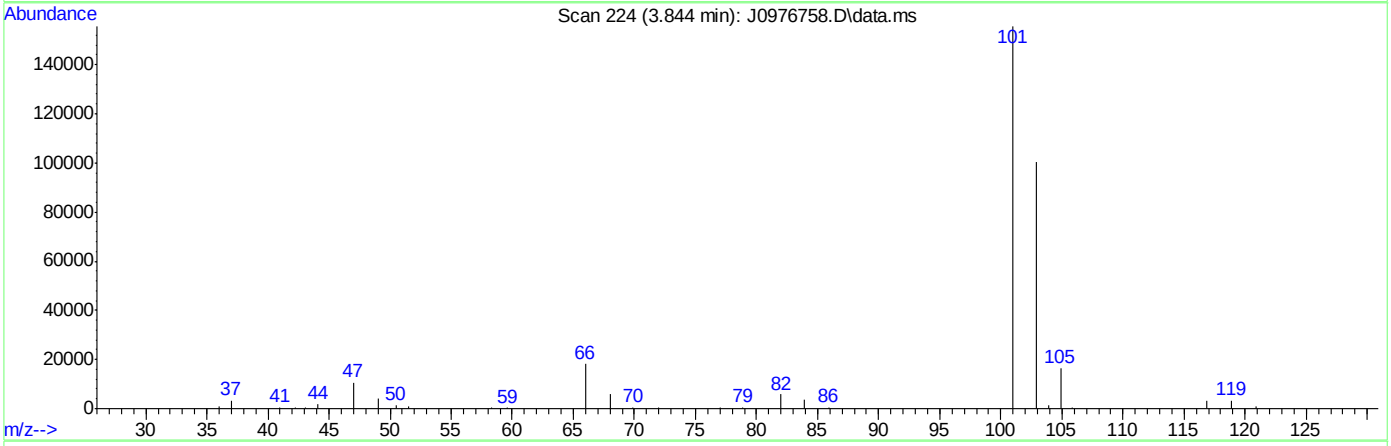
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.844min (-0.000) 95.05ug/L m

response 871393

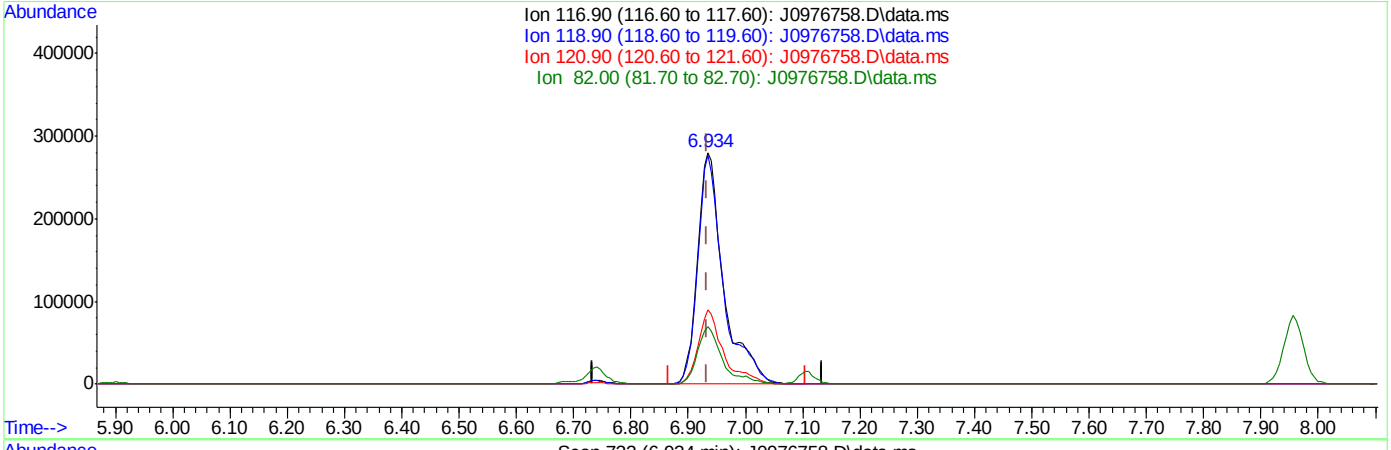
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.53
0.00	0.00	0.00
0.00	0.00	0.00

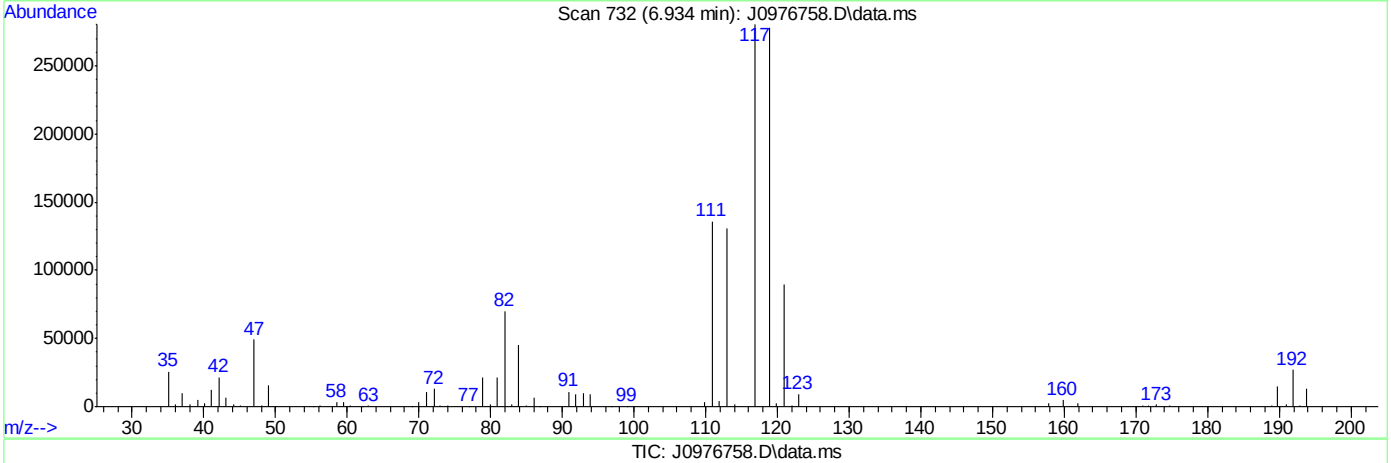
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 89.29ug/L

response 892851

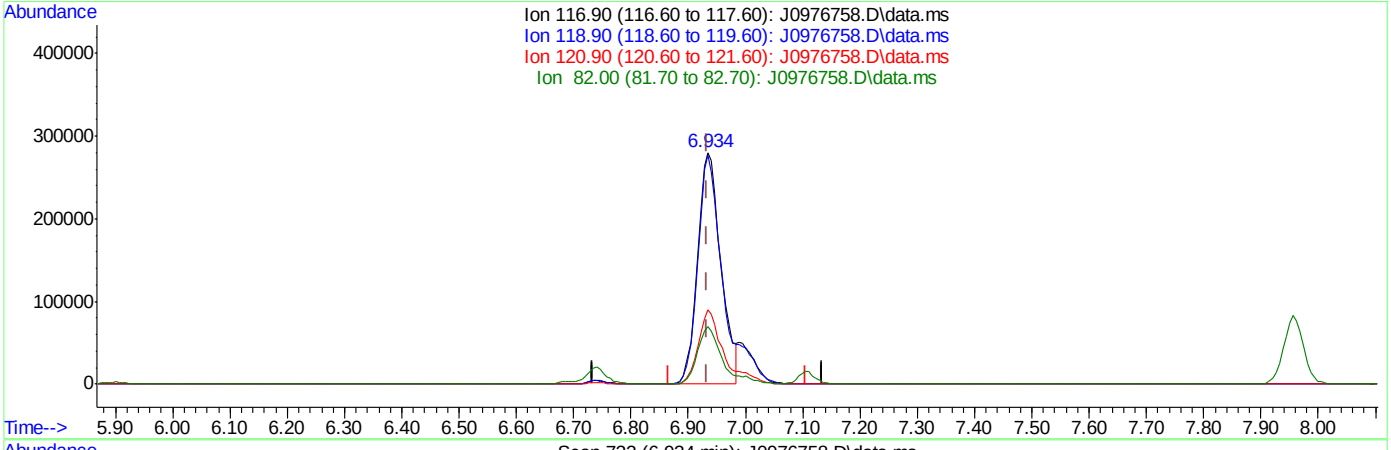
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	99.06
120.90	31.20	31.87
82.00	25.70	24.99

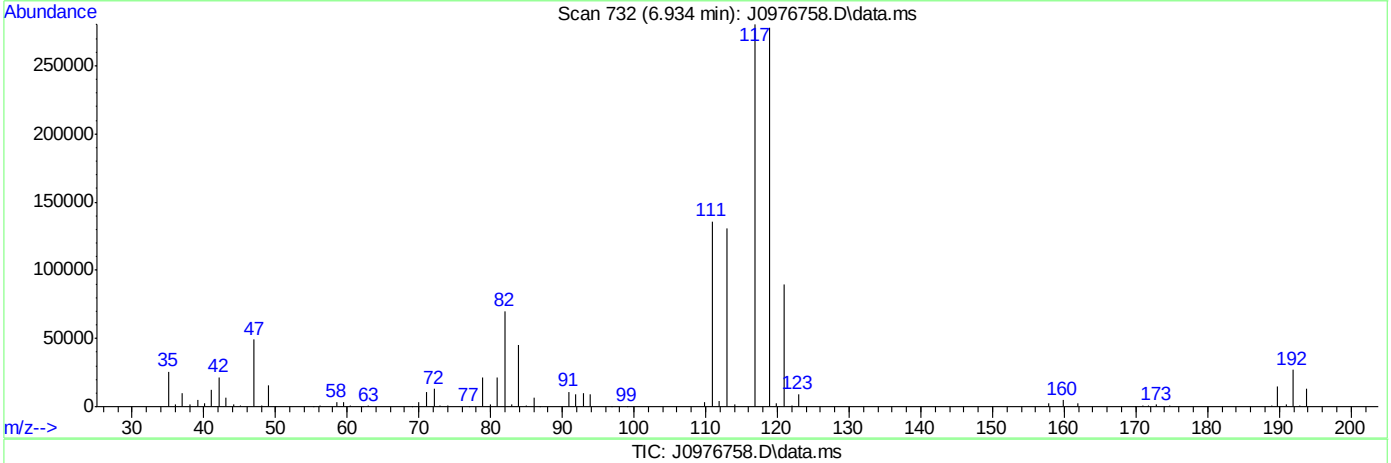
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 79.20ug/L m

response 792008

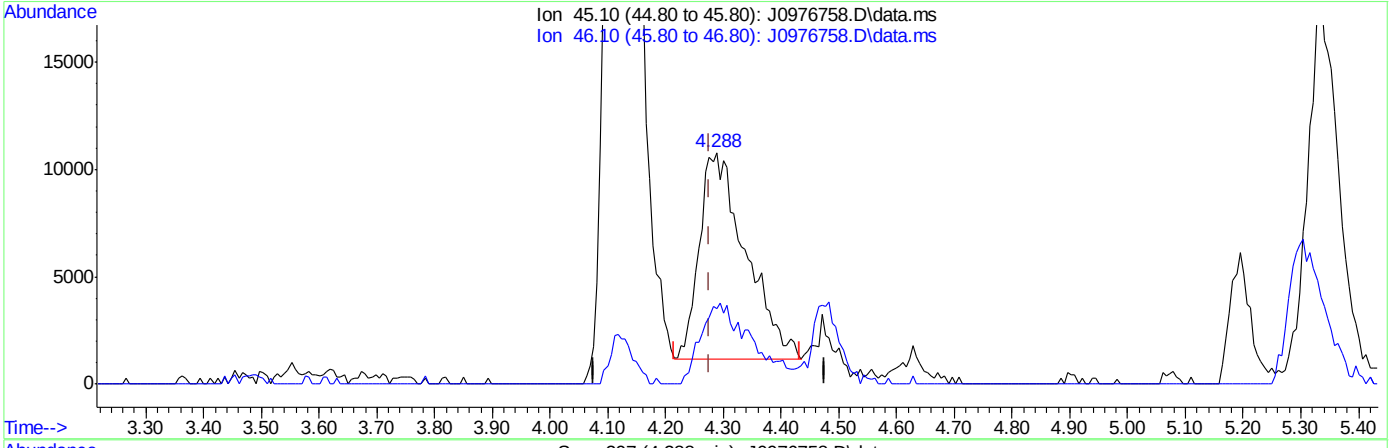
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	99.06
120.90	31.20	31.87
82.00	25.70	24.99

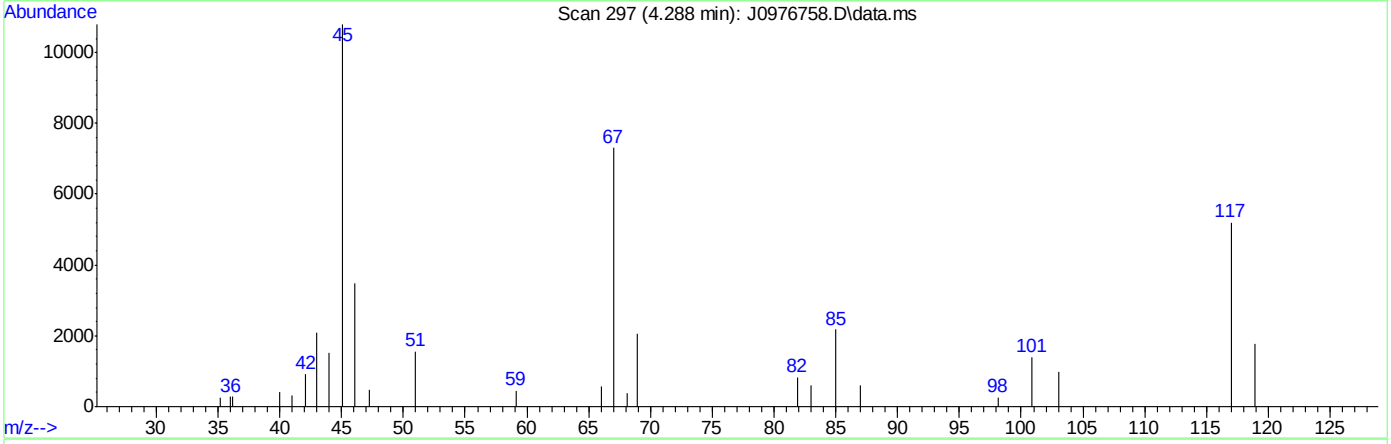
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(107) Ethanol

4.288min (+0.012) 1163.71ug/L

response 53692

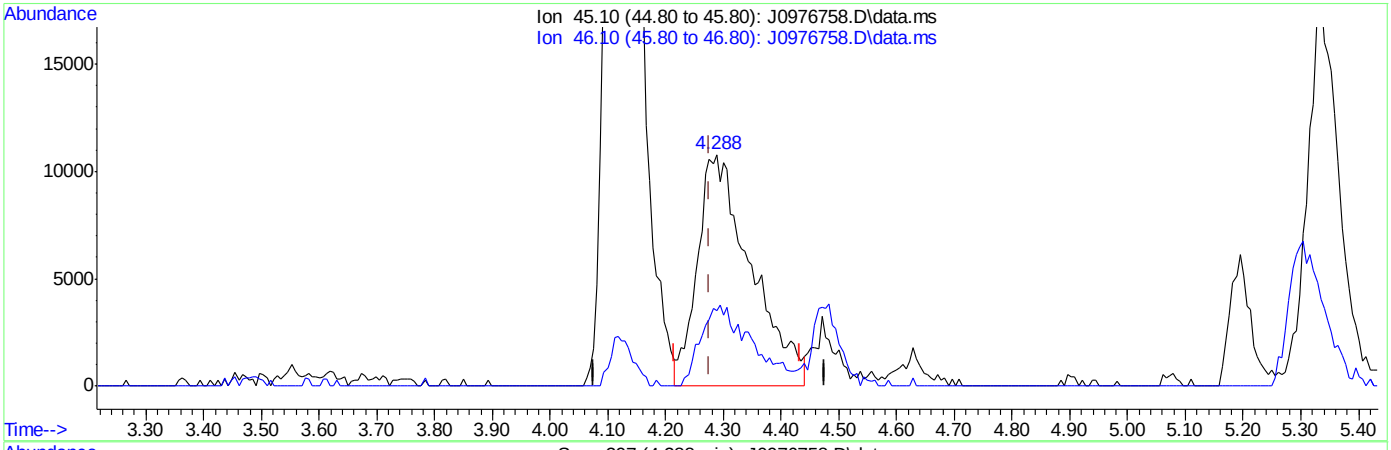
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	36.23
0.00	0.00	0.00
0.00	0.00	0.00

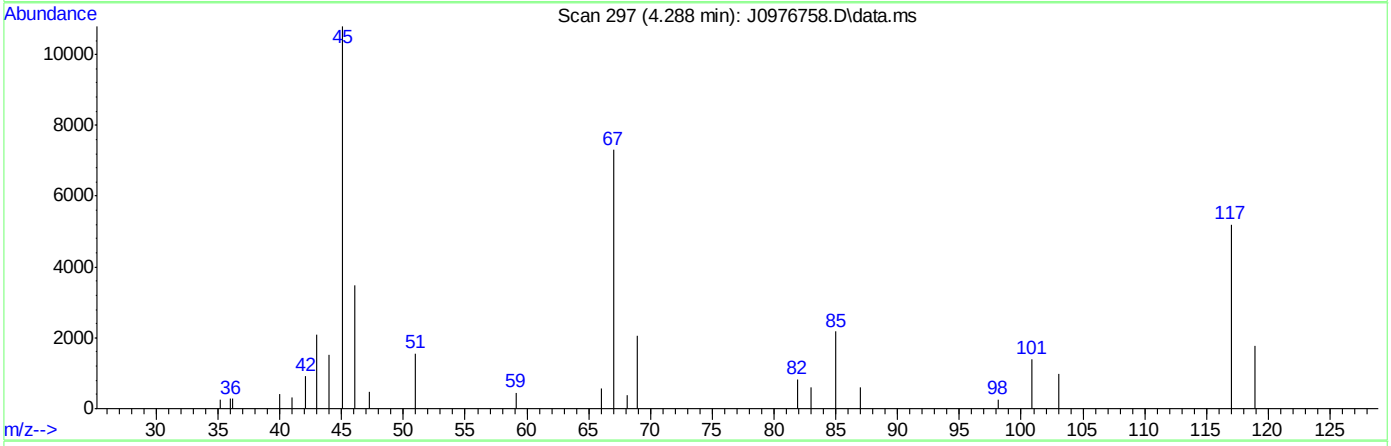
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976758.D
Acq On : 24 May 2016 12:27 pm
Operator : DARSHNAP
Sample : ic5312-6 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 24 12:44:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976758.D\data.ms

(107) Ethanol

4.288min (+0.012) 1502.80ug/L m

response 69337

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	32.36
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

J0976759.D

Manual Integrations APPROVED (compounds with "m" flag)

Melissa Mangual 05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1317935	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1089402	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	619907	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	101570	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	331927	50.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.54%			
46) 1,2-Dichloroethane-d4	7.476	65	354603	45.93	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 91.86%			
57) Toluene-d8	9.301	98	1334230	47.55	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.10%			
79) 4-Bromofluorobenzene	12.051	95	559540	49.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	900978	148.55	ug/L	97
3) Chloromethane	2.907	50	962070	125.07	ug/L	98
4) Vinyl Chloride	3.053	62	923907	125.25	ug/L	95
5) 1,3-Butadiene	3.047	54	399558	Below Cal		87
6) Bromomethane	3.467	94	430398	Below Cal		99
7) Chloroethane	3.607	64	227279	Below Cal		96
8) Trichlorofluoromethane	3.832	101	1213819m	128.68	ug/L	
9) Ethyl Ether	4.118	59	567557	110.45	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.355	67	888712	110.46	ug/L	98
11) 1,1-Dichloroethene	4.398	61	1110000	109.25	ug/L	95
12) Freon 113	4.465	101	793235	114.04	ug/L	99
13) Carbon Disulfide	4.471	76	2582458	110.30	ug/L	96
14) Iodomethane	4.586	142	1283138	110.60	ug/L	98
15) Allyl chloride	4.921	41	1008810	108.30	ug/L	96
16) Methylene Chloride	5.042	49	898337	107.14	ug/L	92
17) Acetone	5.067	58	213585	527.51	ug/L	94
18) Methyl acetate	5.195	74	417392	547.95	ug/L #	80
19) trans-1,2-Dichloroethene	5.225	61	997125	109.18	ug/L	93
20) Hexane	5.298	56	658147	105.29	ug/L	93
21) Methyl Tert Butyl Ether	5.335	73	2003532	103.70	ug/L	96
22) Acetonitrile	5.584	40	277783	1073.10	ug/L	95
23) Di-isopropyl ether	5.718	45	2237639	104.50	ug/L	95
24) Chloroprene	5.870	53	1157843	111.72	ug/L	96
25) 1,1-Dichloroethane	5.894	63	1306499	111.26	ug/L	95
26) Acrylonitrile	5.925	53	877068	546.69	ug/L	94
27) ETBE	6.119	59	2299342	104.91	ug/L	96
28) Vinyl acetate	6.107	43	5180415	525.72	ug/L	97
29) cis-1,2-Dichloroethene	6.472	96	877643	110.37	ug/L	91
30) 2,2-Dichloropropane	6.606	77	1109329	109.66	ug/L	100
31) Bromochloromethane	6.685	128	397651	110.03	ug/L	96
32) Cyclohexane	6.734	56	1333805	117.57	ug/L	94
33) Chloroform	6.740	83	1414752	111.66	ug/L	98
34) Ethyl acetate	6.807	43	1962715	536.73	ug/L	100

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	119656	105.46 ug/L	90
37) Carbon Tetrachloride	6.934	117	1106213m	107.52 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	1305413	110.08 ug/L	96
39) 2-Butanone	7.020	43	867681	532.88 ug/L	98
40) 1,1-Dichloropropene	7.105	75	1031234	111.68 ug/L	96
41) tert-Butyl Formate	7.190	59	4753340	1086.03 ug/L	94
42) Propionitrile	7.330	54	621234	1058.34 ug/L	80
43) Methacrylonitrile	7.360	41	2334567	954.55 ug/L	99
44) Benzene	7.354	78	2992761	113.34 ug/L	99
45) TAME	7.433	73	2125296	104.95 ug/L	98
47) 1,2-Dichloroethane	7.549	62	910779	111.54 ug/L	98
48) Trichloroethene	7.932	95	786540	110.57 ug/L	96
49) Methylcyclohexane	7.957	83	1473752	115.58 ug/L	99
50) Dibromomethane	8.358	93	416914	100.79 ug/L	95
51) 1,2-Dichloropropane	8.449	63	755141	110.82 ug/L	98
52) Bromodichloromethane	8.492	83	1000002	111.08 ug/L	100
53) Methyl methacrylate	8.589	41	389546	106.40 ug/L	91
54) 2-Chloroethyl vinyl ether	9.009	63	1868281	553.58 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	1197032	108.43 ug/L	97
58) Toluene	9.350	91	3106720	106.21 ug/L	92
59) 2-Nitropropane	9.556	41	568151	509.62 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	2064598	499.42 ug/L	95
61) trans-1,3-Dichloropropene	9.733	75	1010215	101.38 ug/L	99
62) Tetrachloroethene	9.757	166	865365	106.10 ug/L	98
63) Ethyl methacrylate	9.836	69	793501	101.65 ug/L	95
64) 1,1,2-Trichloroethane	9.903	83	524602	103.83 ug/L	98
65) Dibromochloromethane	10.098	129	733723	103.22 ug/L	97
66) 1,3-Dichloropropane	10.183	76	1057316	105.64 ug/L	98
67) 1,2-Dibromoethane	10.360	107	617049	100.60 ug/L	94
68) 2-hexanone	10.487	43	1479779	454.75 ug/L	96
69) 1-Chlorohexane	10.798	91	1107564	114.34 ug/L	93
70) Ethylbenzene	10.858	91	3447300	108.30 ug/L	91
71) Chlorobenzene	10.864	112	2155757	107.70 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.913	131	765324	103.27 ug/L	99
73) m,p-Xylene	10.998	91	4737126	224.13 ug/L	81
74) o-Xylene	11.436	91	2894737	99.00 ug/L	93
75) Styrene	11.485	104	2391969	106.02 ug/L	98
76) Bromoform	11.546	173	480201	101.95 ug/L	99
77) Isopropylbenzene	11.741	105	3386346	105.13 ug/L	92
80) cis-1,4-Dichloro-2-butene	12.087	53	190135	100.95 ug/L	93
81) n-Propylbenzene	12.160	91	3870026	111.58 ug/L	90
82) Bromobenzene	12.185	156	1009437	107.42 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.221	83	757574	105.25 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	3097301	107.55 ug/L	90
85) 2-Chlorotoluene	12.349	91	2864263	110.52 ug/L	93
86) trans-1,4-Dichloro-2-B...	12.398	53	173283	96.68 ug/L	88
87) 1,2,3-Trichloropropane	12.379	110	204260	106.52 ug/L	96
88) Cyclohexanone	12.446	55	107544	562.49 ug/L	94
89) 4-Chlorotoluene	12.519	91	2731345	108.58 ug/L	93
90) a-Methyl Styrene	12.604	118	1851002	104.82 ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	1811694	105.73	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	3071828	107.85	ug/L	90
93) Pentachloroethane	12.738	167	649985	101.60	ug/L	94
94) sec-Butylbenzene	12.866	105	3635280	107.45	ug/L	91
95) 4-Isopropyltoluene	13.000	119	3169395	97.74	ug/L	91
96) 1,3-Dichlorobenzene	13.134	146	1746807	105.31	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	1776412	106.94	ug/L	98
98) n-Butylbenzene	13.432	92	1924322	103.46	ug/L	84
99) Benzyl Chloride	13.444	126	306910	104.26	ug/L #	44
100) 1,2-Dichlorobenzene	13.645	146	1615407	105.66	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	14.381	75	109179	99.85	ug/L	90
102) Hexachlorobutadiene	14.928	225	775073	102.94	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	1159678	104.11	ug/L	98
104) Naphthalene	15.257	128	1735427	104.85	ug/L	98
105) 1,2,3-Trichlorobenzene	15.427	180	985709	103.74	ug/L	98
107) Ethanol	4.288	45	100122m	1993.45	ug/L	
108) acrolein	4.757	56	410812	428.96	ug/L	99
109) Tert Butyl Alcohol	5.383	59	460625	998.99	ug/L	85
110) tert Amyl alcohol	7.573	59	373148	1013.36	ug/L	97
111) Isobutyl alcohol	7.452	42	291561	1990.90	ug/L	95
112) 1,4-Dioxane	8.668	88	111104	2099.52	ug/L	95
113) 3,3-Dimethyl-1-butanol	10.433	57	2032943	4986.67	ug/L	98

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

7.6.17

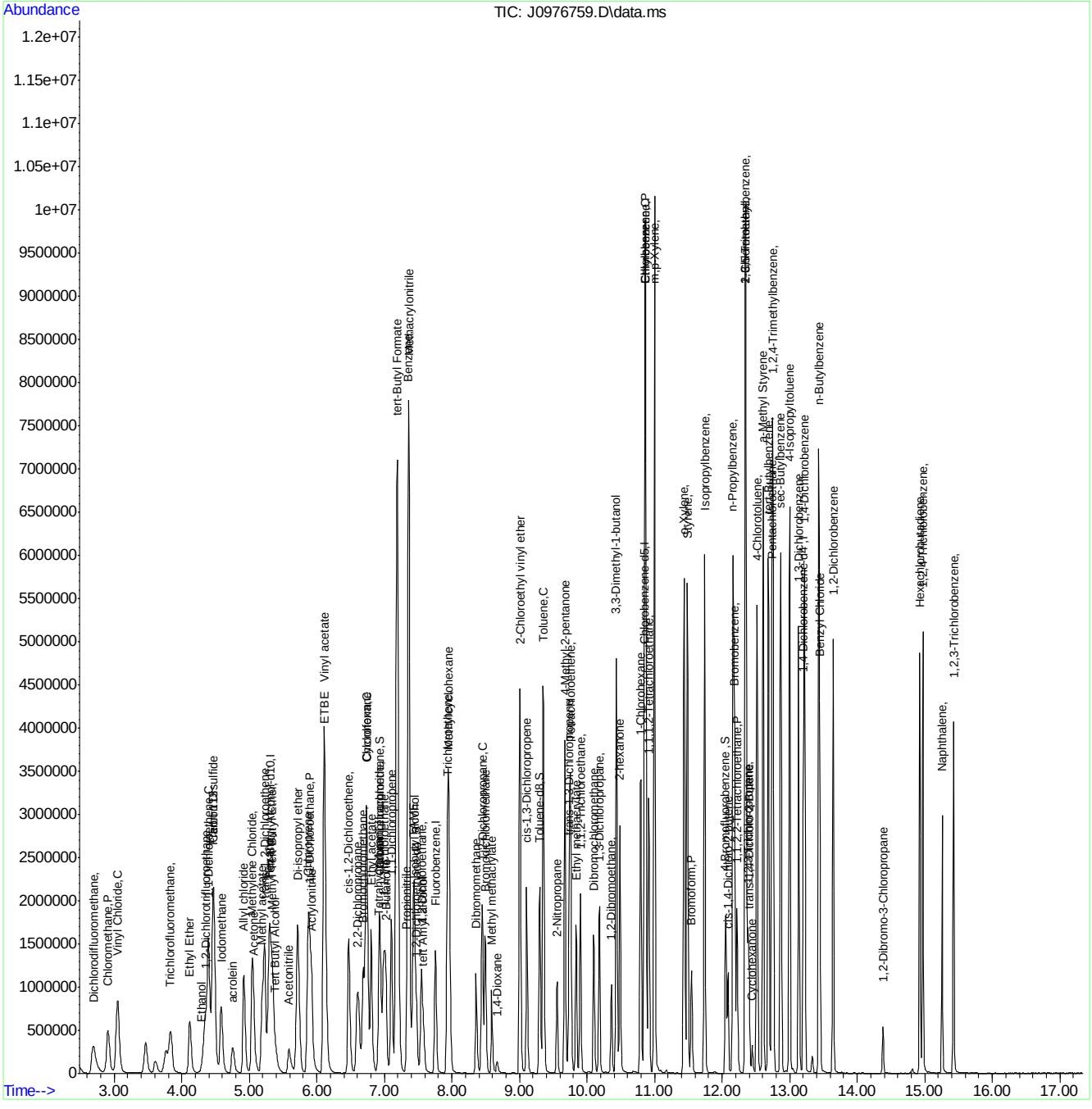
7

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:53 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration



Manual Integration Approval Summary

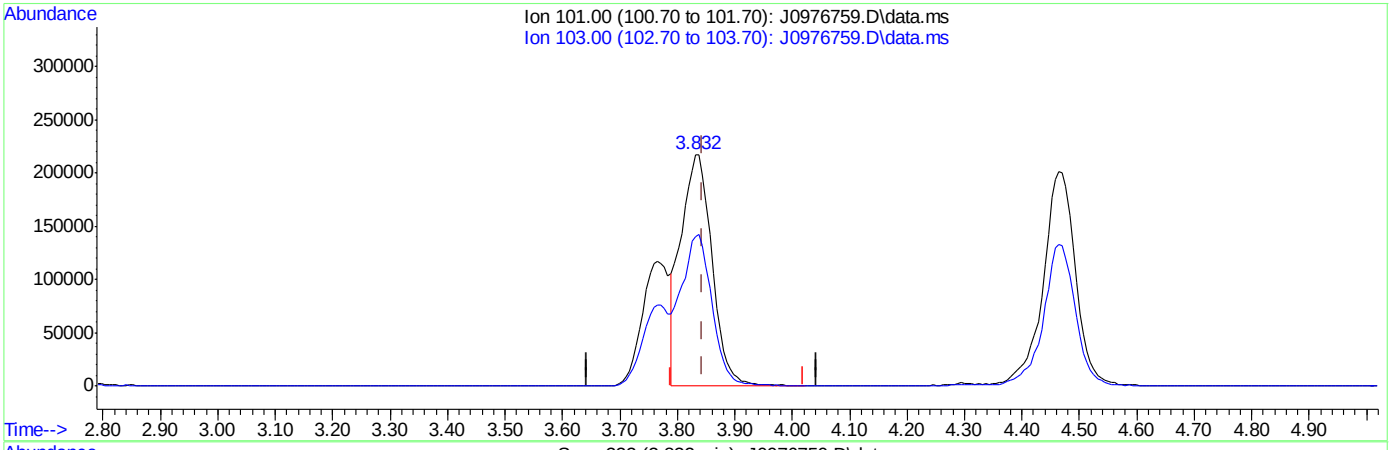
Sample Number:	VJ5312-IC5312	**Method:**	SW846 8260B
Lab FileID:	J0976759.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 12:49	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

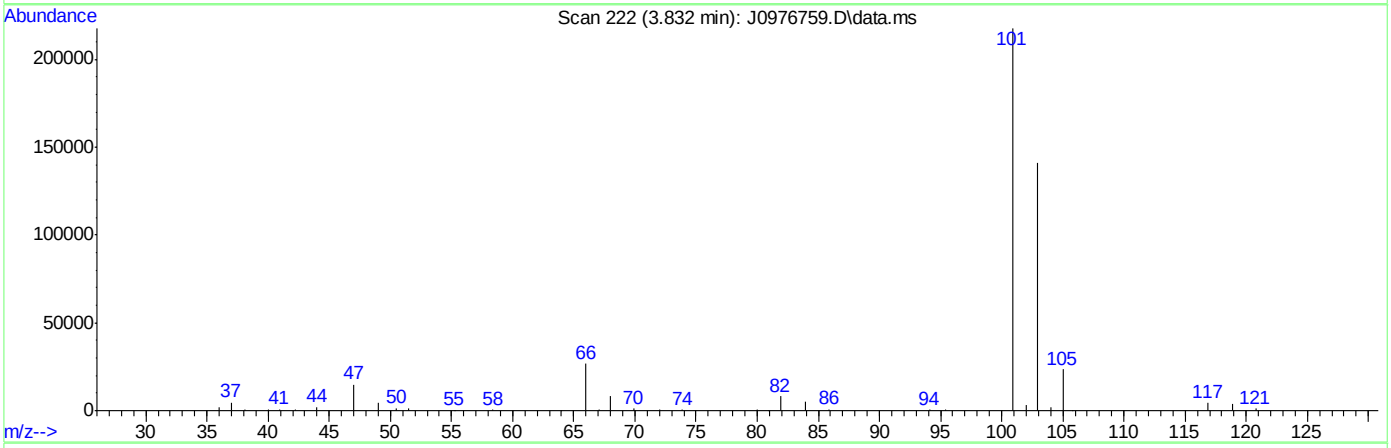
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.832min (-0.012) 86.65ug/L

response 817370

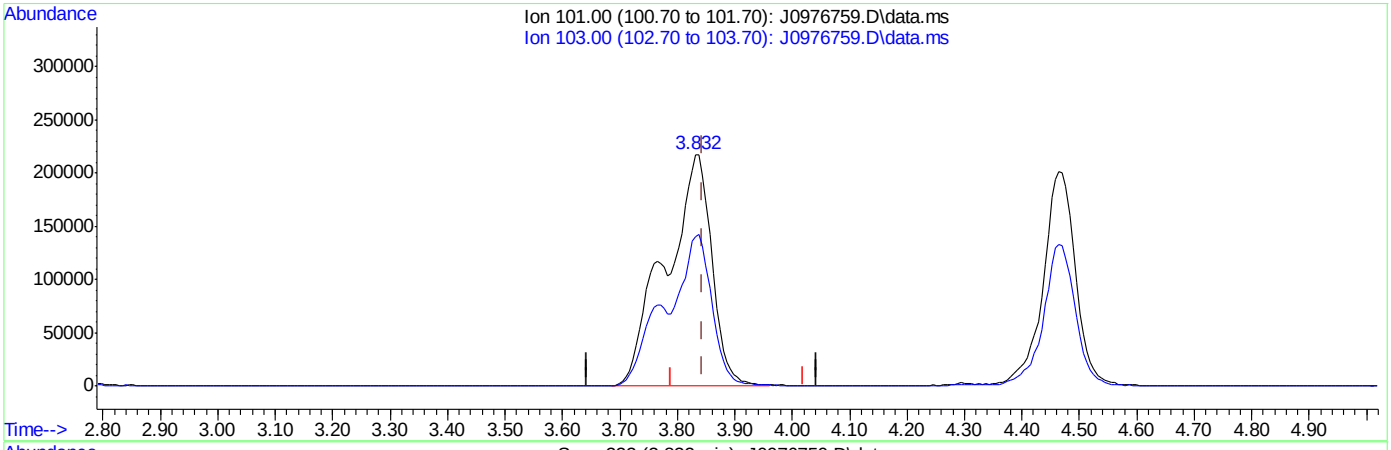
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.66
0.00	0.00	0.00
0.00	0.00	0.00

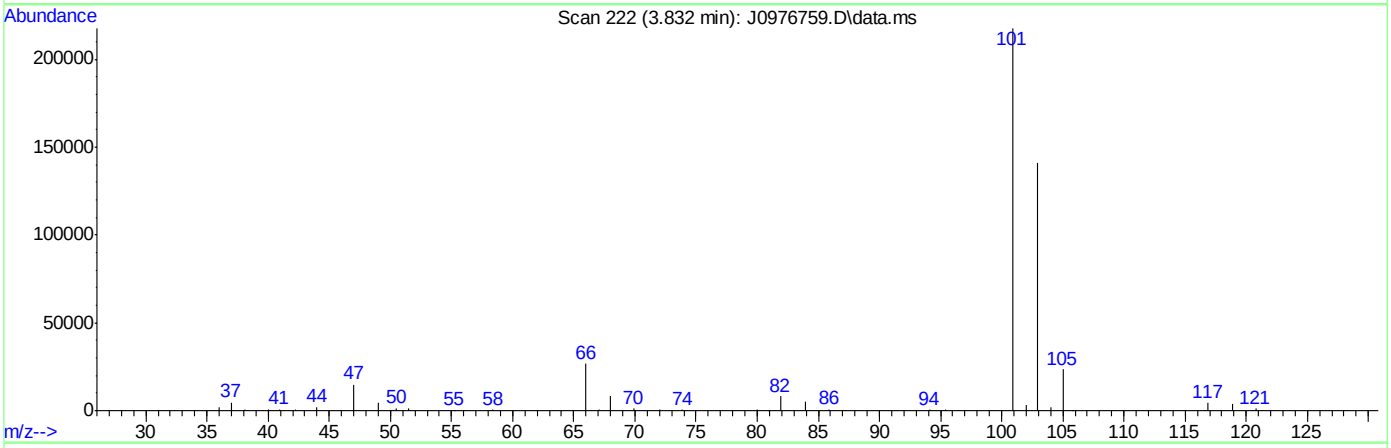
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.832min (-0.012) 128.68ug/L m

response 1213819

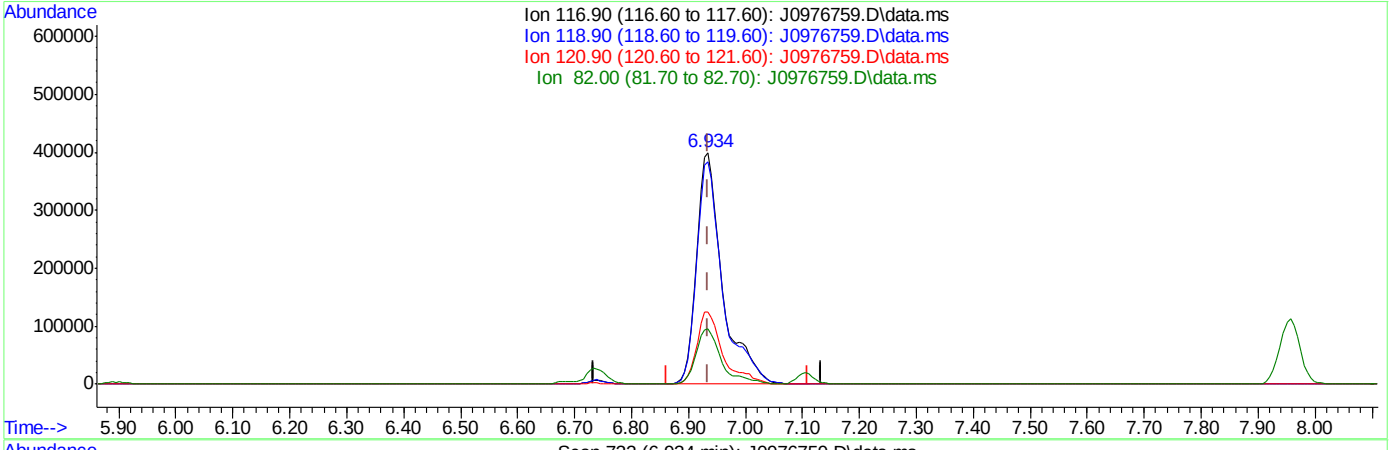
Ion	Exp%	Act%
101.00	100	100
103.00	59.70	64.70
0.00	0.00	0.00
0.00	0.00	0.00

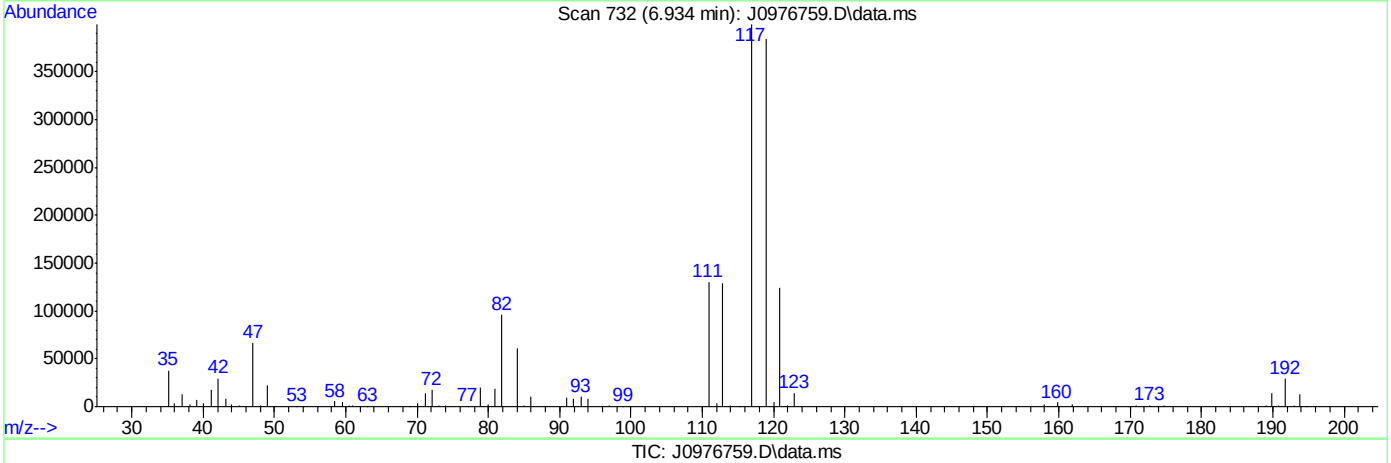
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976759.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 123.58ug/L

response 1271544

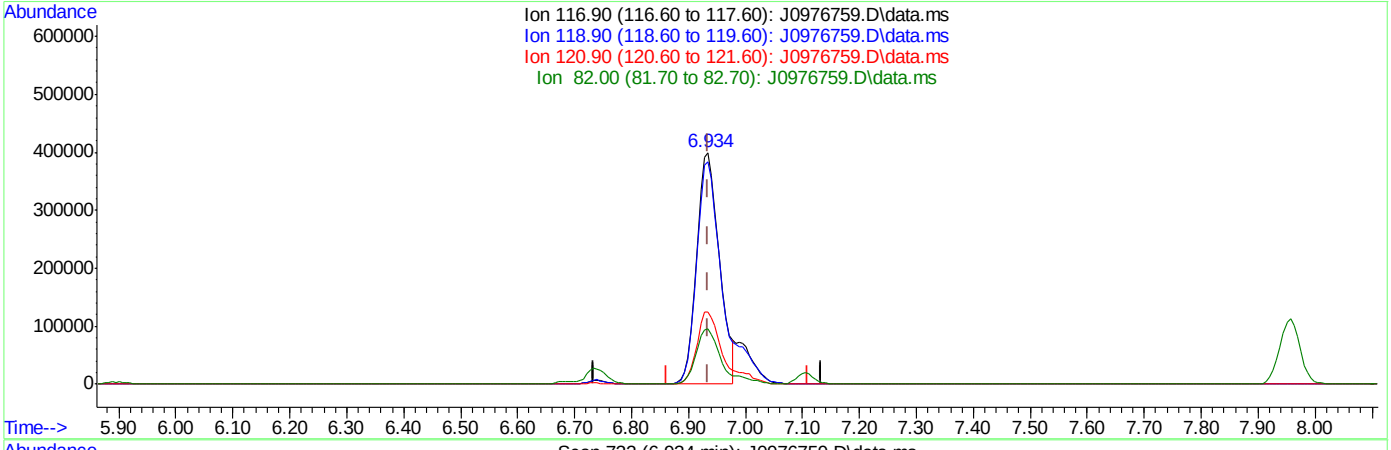
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	96.06
120.90	31.20	31.15
82.00	25.70	23.99

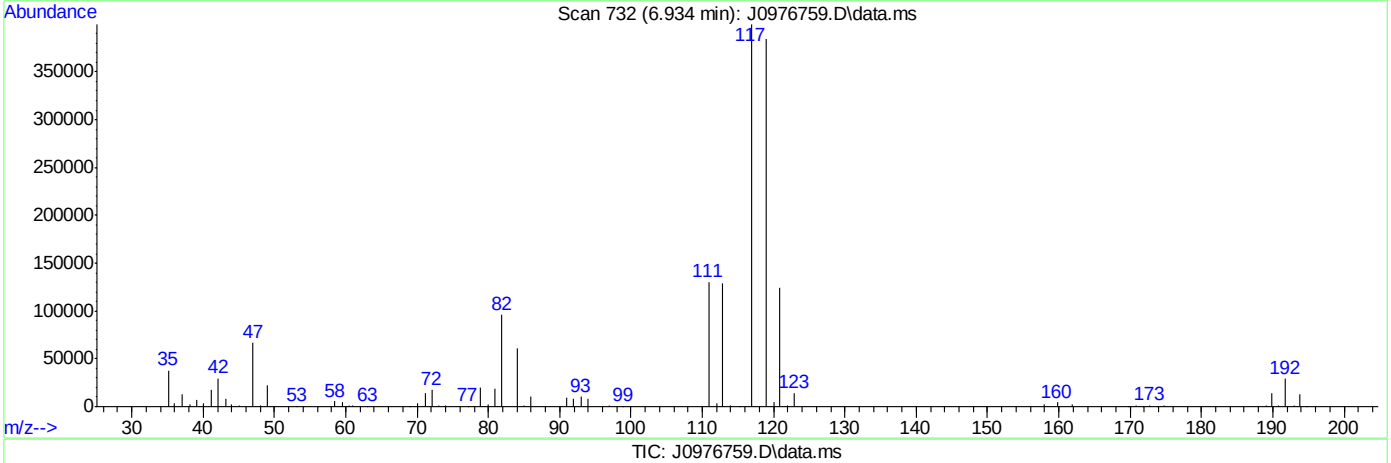
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.934min (+0.000) 107.52ug/L m

response 1106213

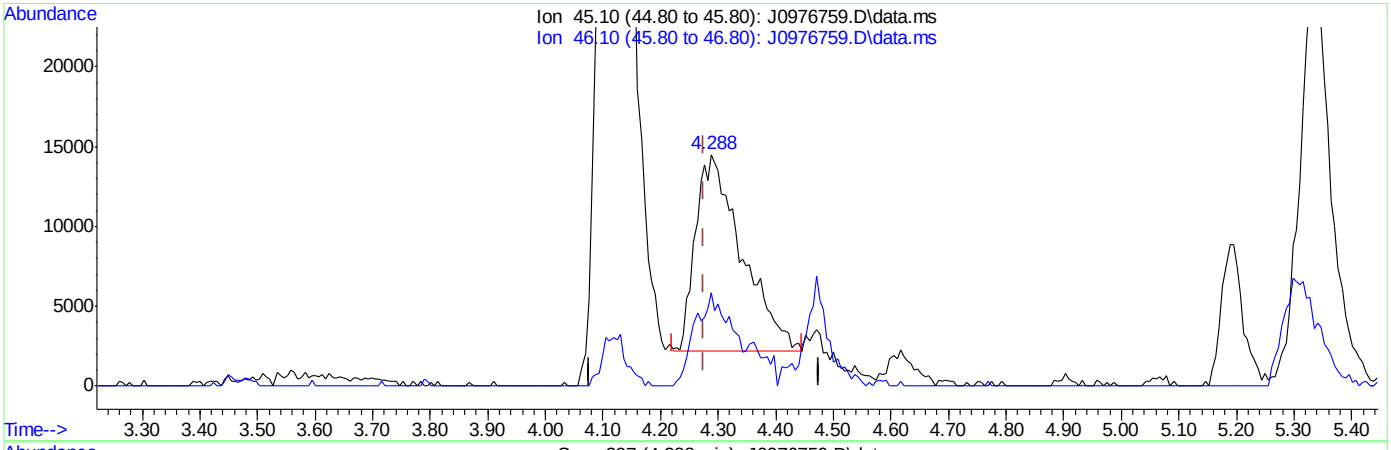
Ion	Exp%	Act%
116.90	100	100
118.90	97.10	96.06
120.90	31.20	31.15
82.00	25.70	23.99

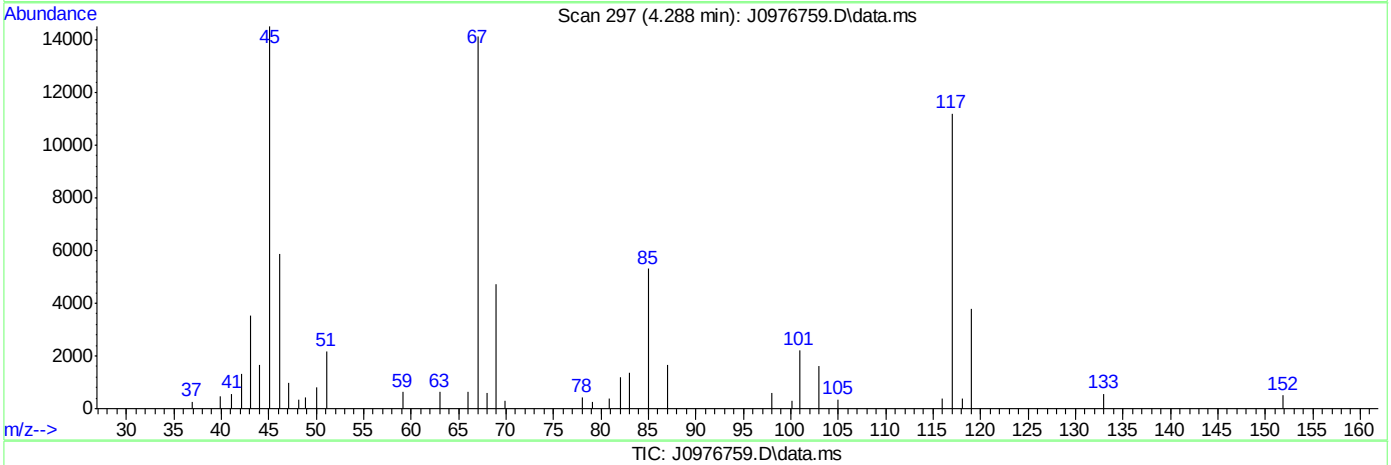
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976759.D\data.ms

(107) Ethanol

4.288min (+0.012) 1372.83ug/L

response 68951

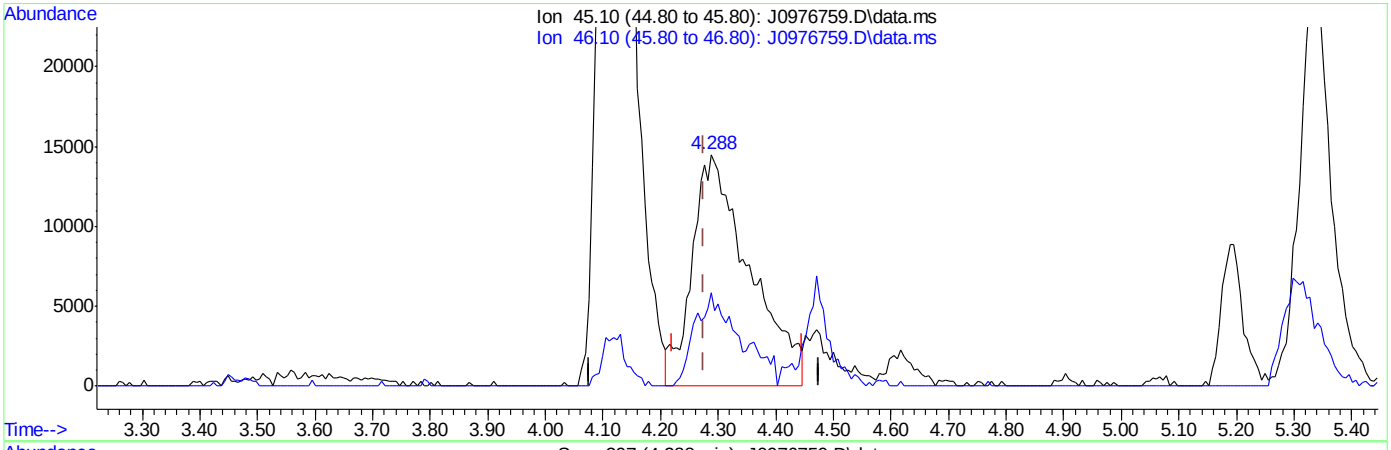
Ion	Exp%	Act%
45.10	100	100
46.10	35.30	47.55
0.00	0.00	0.00
0.00	0.00	0.00

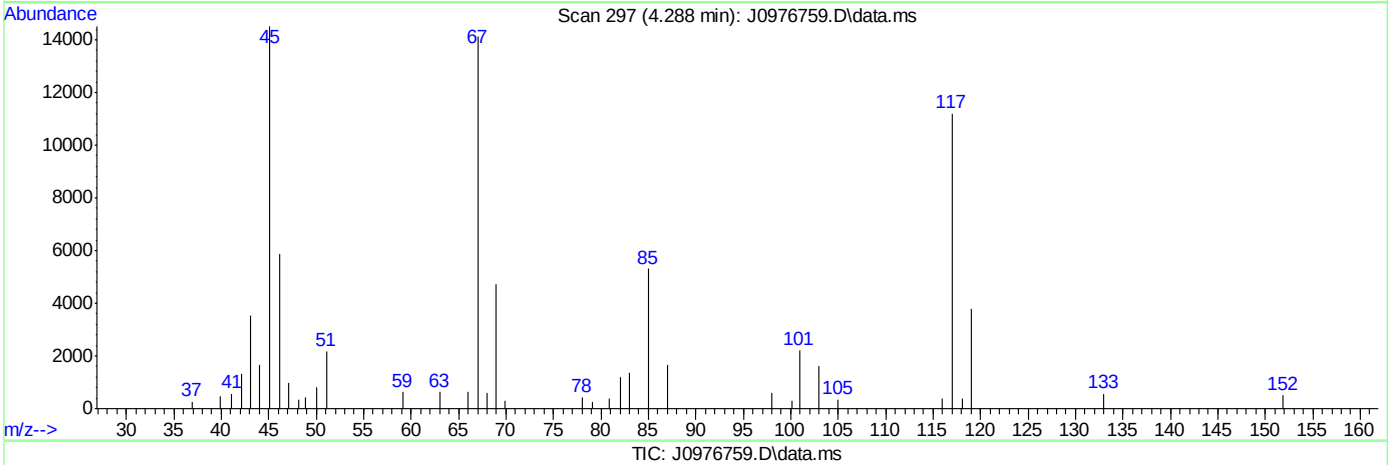
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976759.D
Acq On : 24 May 2016 12:49 pm
Operator : DARSHNAP
Sample : ic5312-7 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 24 13:07:16 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri May 13 08:29:47 2016
Response via : Initial Calibration





TIC: J0976759.D\data.ms

(107) Ethanol

4.288min (+0.012) 1993.45ug/L m

response 100122

Ion	Exp%	Act%
45.10	100	100
46.10	35.30	40.42
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
05/25/16 12:38

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:13:37 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1271171	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1047338	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	592322	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	88691	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	320149	49.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.50%			
46) 1,2-Dichloroethane-d4	7.482	65	349136	48.13	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.26%			
57) Toluene-d8	9.301	98	1305425	49.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.58%			
79) 4-Bromofluorobenzene	12.051	95	545409	49.96	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.92%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	325672	38.98	ug/L	100
3) Chloromethane	2.907	50	348165	37.36	ug/L	100
4) Vinyl Chloride	3.047	62	350810	37.45	ug/L	96
5) 1,3-Butadiene	3.029	54	10743	2.75	ug/L #	67
6) Bromomethane	3.461	94	201723	37.83	ug/L	98
7) Chloroethane	3.619	64	147177	36.38	ug/L	93
8) Trichlorofluoromethane	3.838	101	463705m	36.74	ug/L	
9) Ethyl Ether	4.118	59	209809	37.60	ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.355	67	351992	40.42	ug/L	97
11) 1,1-Dichloroethene	4.398	61	440785	40.52	ug/L	96
12) Freon 113	4.471	101	264997	34.87	ug/L	95
13) Carbon Disulfide	4.471	76	901550	35.81	ug/L	99
14) Iodomethane	4.586	142	454345	36.79	ug/L	98
15) Allyl chloride	4.921	41	331633	35.54	ug/L	96
16) Methylene Chloride	5.042	49	385229	40.59	ug/L	98
17) Acetone	5.067	58	81774	189.08	ug/L	96
18) Methyl acetate	5.195	74	162074	214.23	ug/L #	88
19) trans-1,2-Dichloroethene	5.231	61	427461	43.86	ug/L	98
20) Hexane	5.298	56	238350	36.65	ug/L	99
21) Methyl Tert Butyl Ether	5.334	73	753630	39.71	ug/L	97
22) Acetonitrile	5.590	40	99823	350.88	ug/L	90
23) Di-isopropyl ether	5.712	45	834957	39.30	ug/L	99
24) Chloroprene	5.870	53	371204	36.09	ug/L	97
25) 1,1-Dichloroethane	5.894	63	540040	41.71	ug/L	100
26) Acrylonitrile	5.925	53	361470	202.34	ug/L	95
27) ETBE	6.113	59	843808	38.91	ug/L	98
28) Vinyl acetate	6.107	43	1977344	178.99	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	327635	39.04	ug/L	99
30) 2,2-Dichloropropane	6.606	77	452230	42.28	ug/L	97
31) Bromochloromethane	6.685	128	145453	38.67	ug/L	93
32) Cyclohexane	6.734	56	477719	39.54	ug/L	99
33) Chloroform	6.740	83	557889	39.79	ug/L	100
34) Ethyl acetate	6.807	43	789659	198.84	ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:13:37 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	46011	39.24 ug/L	88
37) Carbon Tetrachloride	6.934	117	434206m	40.81 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	476990	37.91 ug/L	98
39) 2-Butanone	7.020	43	350906	202.66 ug/L	100
40) 1,1-Dichloropropene	7.105	75	385538	39.64 ug/L	97
41) tert-Butyl Formate	7.184	59	2003876	399.20 ug/L	98
42) Propionitrile	7.330	54	250812	390.24 ug/L #	71
43) Methacrylonitrile	7.360	41	1022002	397.89 ug/L	99
44) Benzene	7.360	78	1202185	39.37 ug/L	100
45) TAME	7.433	73	772979	39.05 ug/L	98
47) 1,2-Dichloroethane	7.549	62	383419	41.53 ug/L	99
48) Trichloroethene	7.938	95	318354	40.61 ug/L	95
49) Methylcyclohexane	7.956	83	547336	40.69 ug/L	98
50) Dibromomethane	8.358	93	172449	42.40 ug/L	99
51) 1,2-Dichloropropane	8.449	63	300964	40.05 ug/L	97
52) Bromodichloromethane	8.492	83	404856	41.89 ug/L	96
53) Methyl methacrylate	8.589	41	157418	42.28 ug/L	97
54) 2-Chloroethyl vinyl ether	9.009	63	768292	207.43 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	492788	45.38 ug/L	98
58) Toluene	9.356	91	1310081	40.16 ug/L	99
59) 2-Nitropropane	9.556	41	218271	202.65 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	850626	208.94 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	440252	47.35 ug/L	99
62) Tetrachloroethene	9.757	166	331484	39.50 ug/L	99
63) Ethyl methacrylate	9.836	69	267195	35.89 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	219787	42.27 ug/L	99
65) Dibromochloromethane	10.098	129	295373	43.53 ug/L	99
66) 1,3-Dichloropropane	10.183	76	416844	39.54 ug/L	98
67) 1,2-Dibromoethane	10.359	107	246146	42.25 ug/L	99
68) 2-hexanone	10.487	43	591811	200.51 ug/L	99
69) 1-Chlorohexane	10.798	91	403712	37.82 ug/L	98
70) Ethylbenzene	10.858	91	1502735	39.66 ug/L	100
71) Chlorobenzene	10.864	112	897651	40.37 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	315382	42.60 ug/L	98
73) m,p-Xylene	10.998	91	2324742	82.31 ug/L	99
74) o-Xylene	11.436	91	1226323	43.77 ug/L	100
75) Styrene	11.485	104	962096	40.55 ug/L	99
76) Bromoform	11.546	173	191299	42.69 ug/L	100
77) Isopropylbenzene	11.740	105	1474471	44.78 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	68885	39.62 ug/L	94
81) n-Propylbenzene	12.160	91	1780949	42.56 ug/L	100
82) Bromobenzene	12.185	156	405022	40.69 ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.221	83	312266	41.10 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	1299166	42.29 ug/L	99
85) 2-Chlorotoluene	12.349	91	1244284	40.84 ug/L	100
86) trans-1,4-Dichloro-2-B...	12.397	53	68882	42.34 ug/L	91
87) 1,2,3-Trichloropropane	12.379	110	83903	43.08 ug/L	99
88) Cyclohexanone	12.446	55	46326	219.23 ug/L	98
89) 4-Chlorotoluene	12.519	91	1163703	42.46 ug/L	100
90) a-Methyl Styrene	12.750	118	13625	0.78 ug/L #	1

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

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Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:13:37 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	716871	40.40	ug/L	99
92) 1,2,4-Trimethylbenzene	12.750	105	1313248	42.71	ug/L	99
93) Pentachloroethane	12.738	167	248571	41.50	ug/L	97
94) sec-Butylbenzene	12.866	105	1603437	43.32	ug/L	99
95) 4-Isopropyltoluene	13.000	119	1369347	42.39	ug/L	100
96) 1,3-Dichlorobenzene	13.134	146	720509	41.89	ug/L	99
97) 1,4-Dichlorobenzene	13.219	146	730000	40.86	ug/L	98
98) n-Butylbenzene	13.432	92	756331	42.97	ug/L	98
99) Benzyl Chloride	13.444	126	117415	43.26	ug/L #	92
100) 1,2-Dichlorobenzene	13.645	146	662249	41.26	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	42533	40.46	ug/L	95
102) Hexachlorobutadiene	14.928	225	284145	39.34	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	450367	42.19	ug/L	98
104) Naphthalene	15.257	128	719202	44.52	ug/L	100
105) 1,2,3-Trichlorobenzene	15.427	180	372187	40.21	ug/L	100
107) Ethanol	4.288	45	38199m	768.11	ug/L	
108) acrolein	4.757	56	165031	221.02	ug/L	99
109) Tert Butyl Alcohol	5.371	59	168037	375.02	ug/L	79
110) tert Amyl alcohol	7.573	59	140426	429.16	ug/L	96
111) Isobutyl alcohol	7.458	42	109174	754.56	ug/L #	75
112) 1,4-Dioxane	8.674	88	41261	808.60	ug/L	94
113) 3,3-Dimethyl-1-butanol	10.432	57	743154	1893.92	ug/L	99

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

7.6.18

7

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

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Data File : J0976761.D
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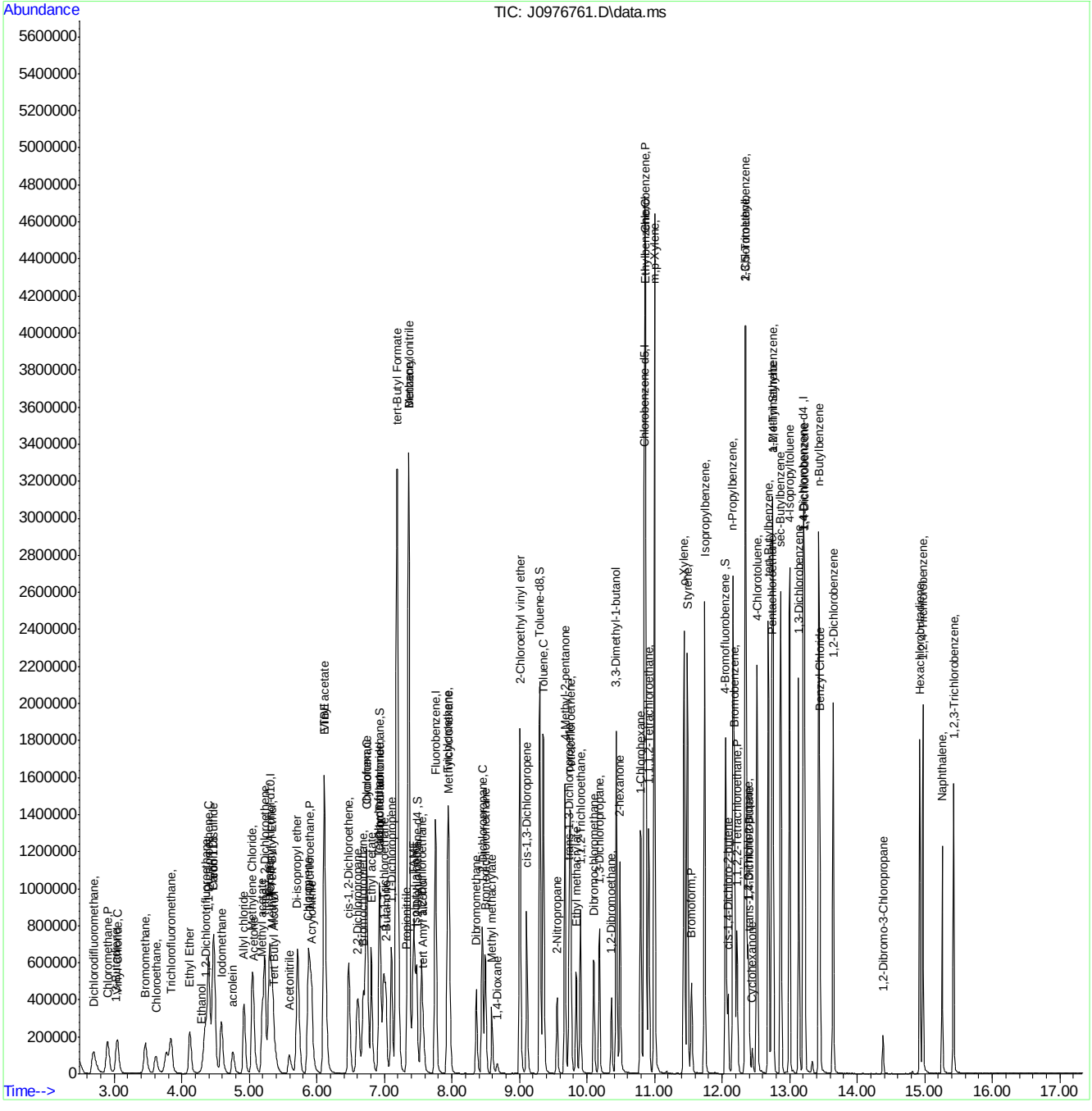
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:13:37 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

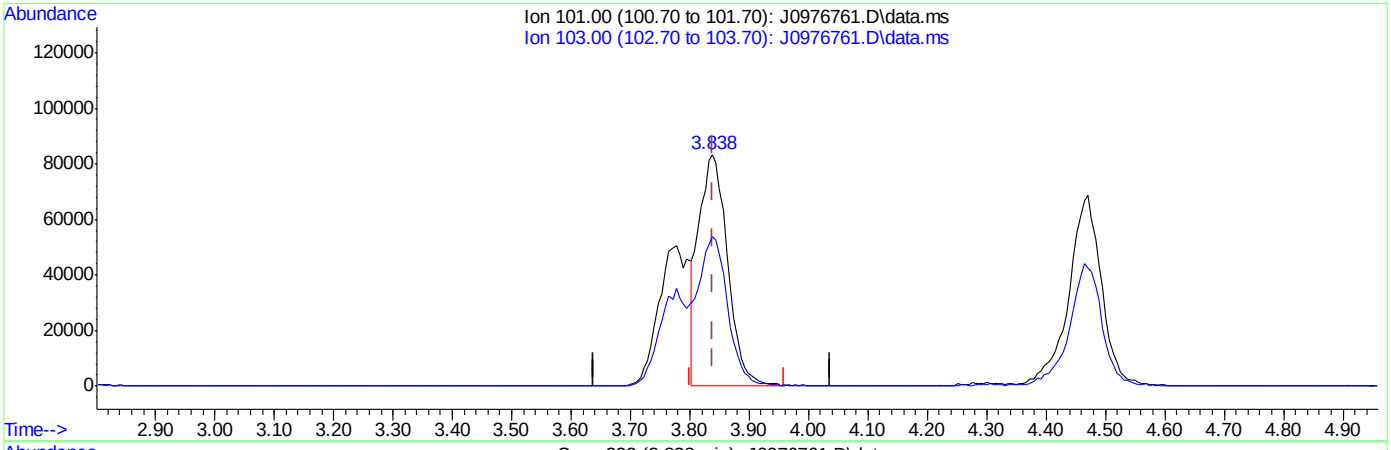
Sample Number:	VJ5312-ICV5312	**Method:**	SW846 8260B
Lab FileID:	J0976761.D	**Analyst approved:**	05/25/16 11:19 Darshna Patel
Injection Time:	05/24/16 13:36	**Supervisor approved:**	05/25/16 12:38 Melissa Mangual

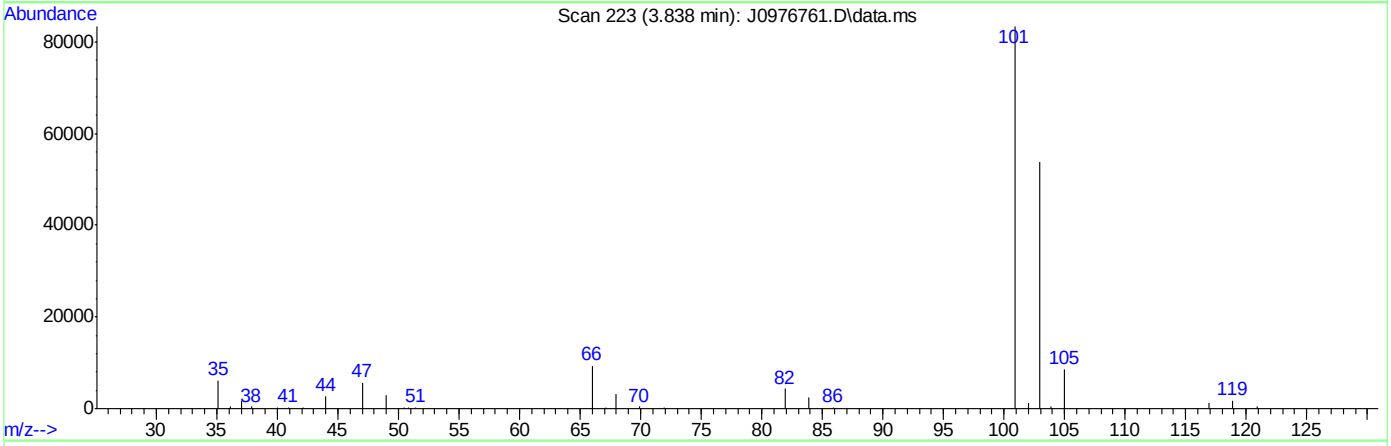
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 13:59:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.838min (-0.000) 22.50ug/L

response 283923

Ion	Exp%	Act%
101.00	100	100
103.00	62.30	64.02
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

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Data File : J0976761.D
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Operator : DARSHNAP
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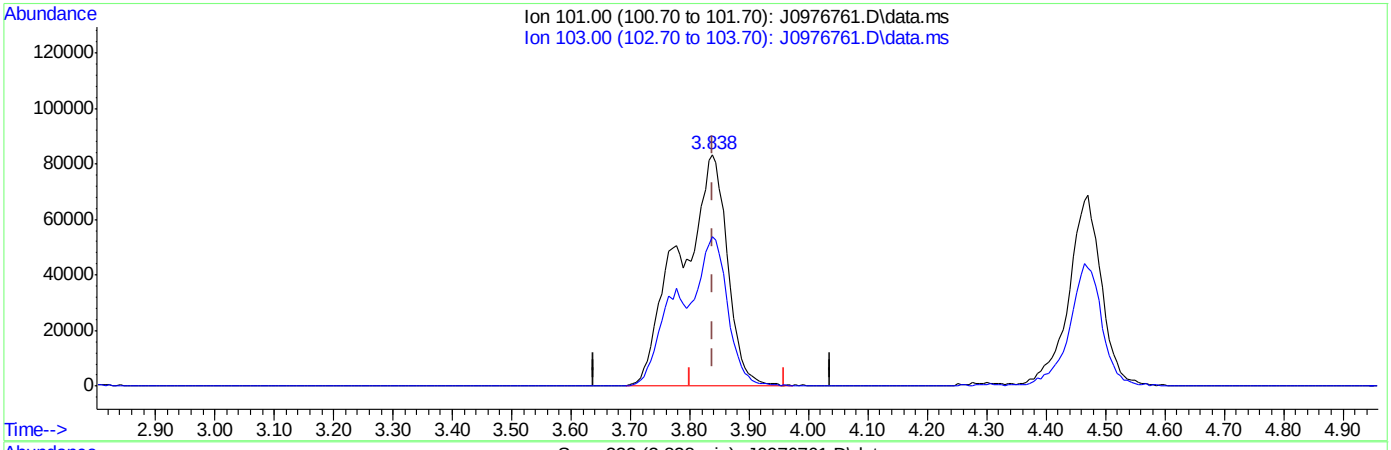
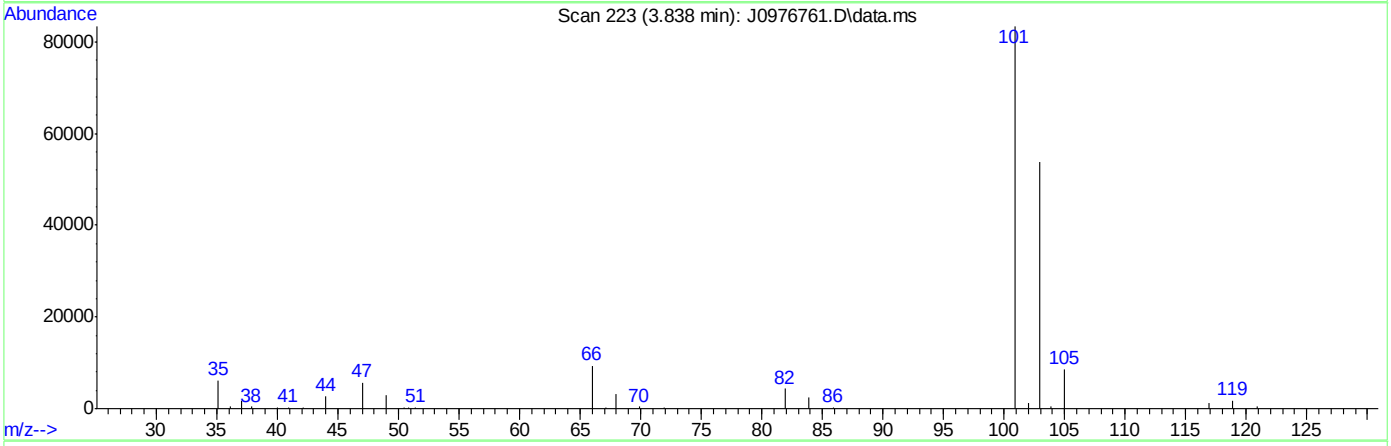
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 13:59:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.838min (-0.000) 36.75ug/L m

response 463817

Ion	Exp%	Act%
101.00	100	100
103.00	62.30	64.53
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 13:59:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
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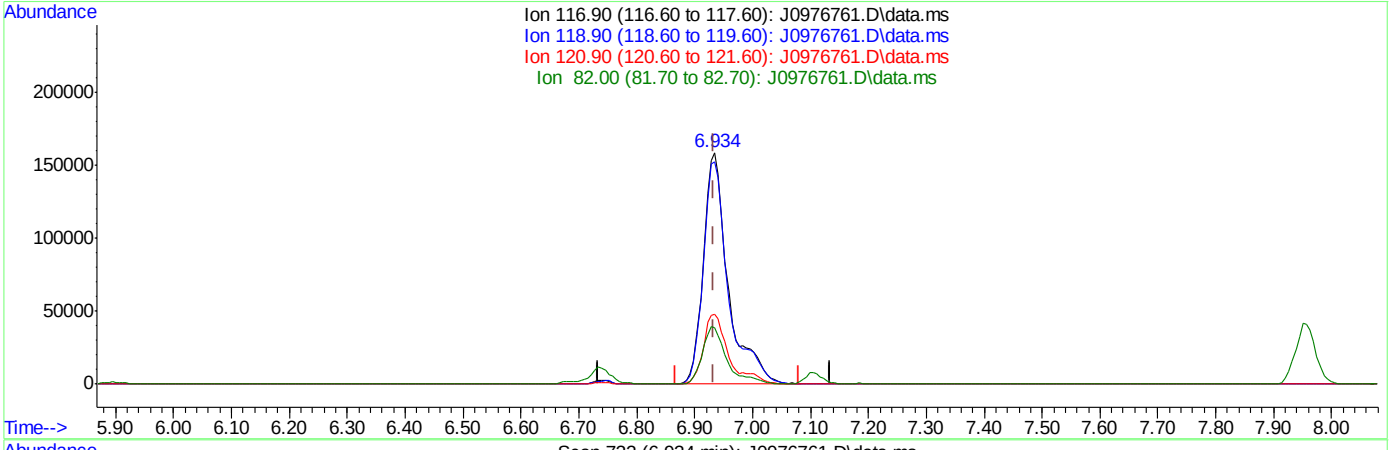
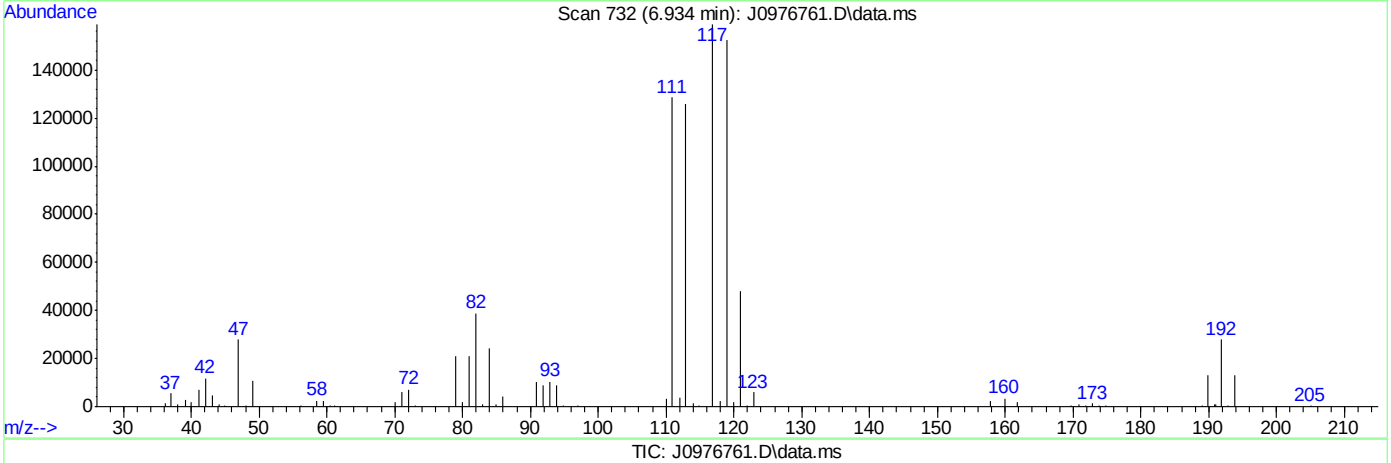




TIC: J0976761.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 45.36ug/L

response 482517

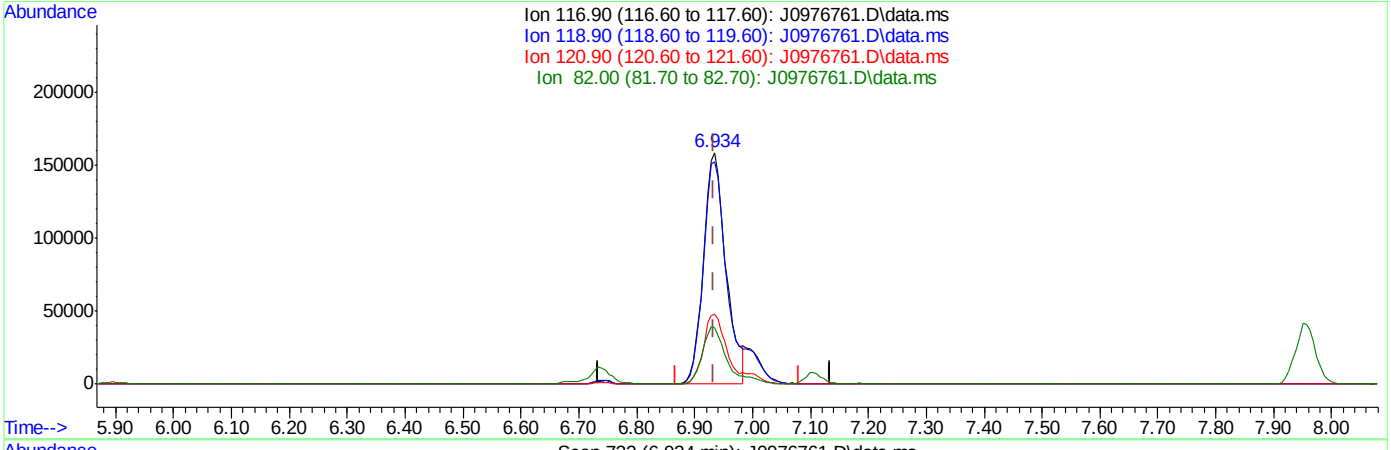
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.93
120.90	32.20	30.30
82.00	25.20	24.42

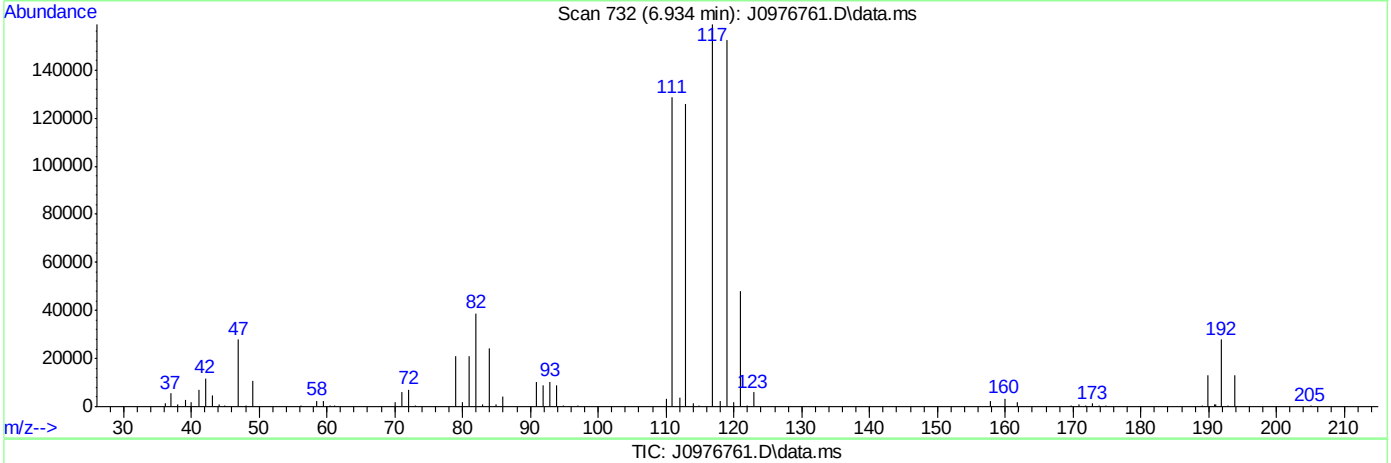
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 24 13:59:35 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 40.81ug/L m

response 434206

Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.93
120.90	32.20	30.30
82.00	25.20	24.42

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
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Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
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QLast Update : Tue May 24 13:19:58 2016
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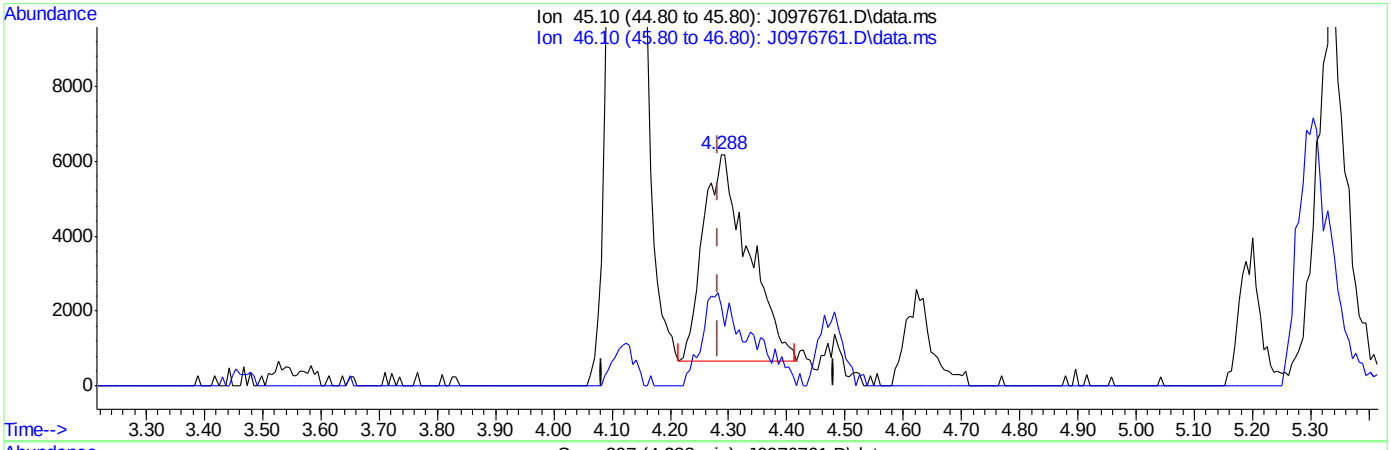

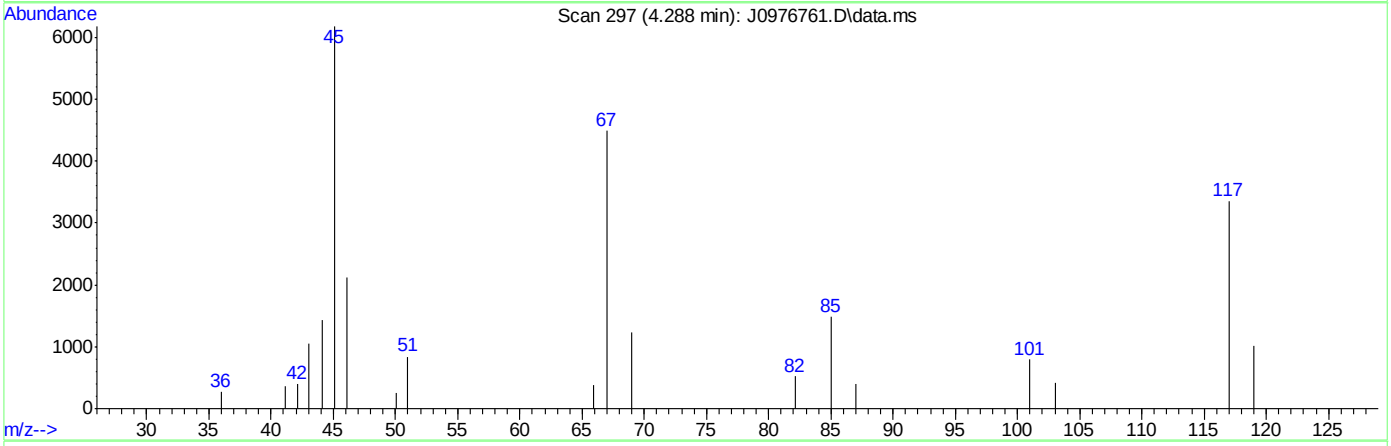

TIC: J0976761.D\data.ms

(107) Ethanol

4.288min (+0.006) 603.66ug/L

response 30021

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	38.54
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
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Misc : MS33959,VJ5312,,,,,
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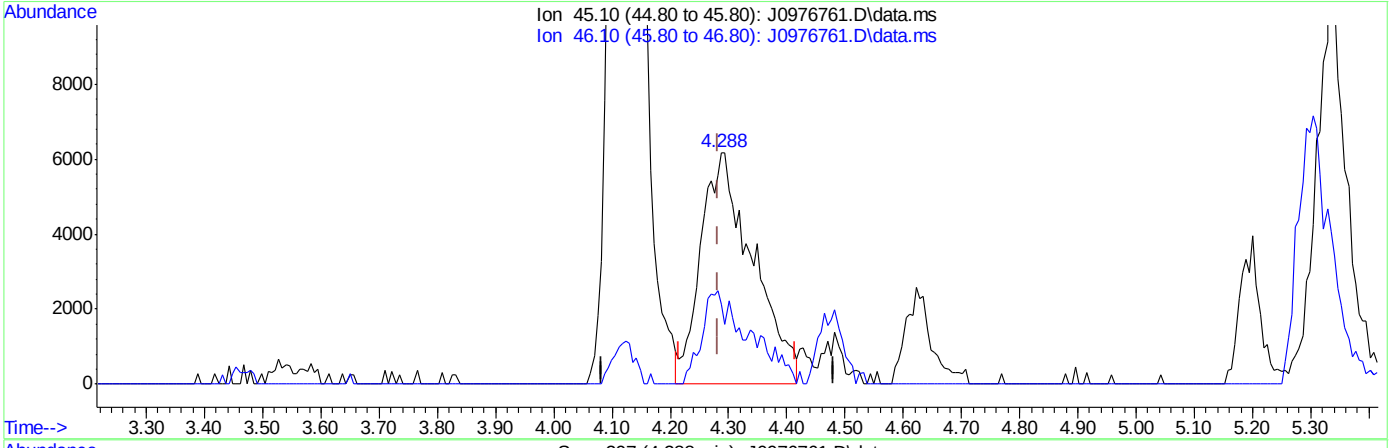
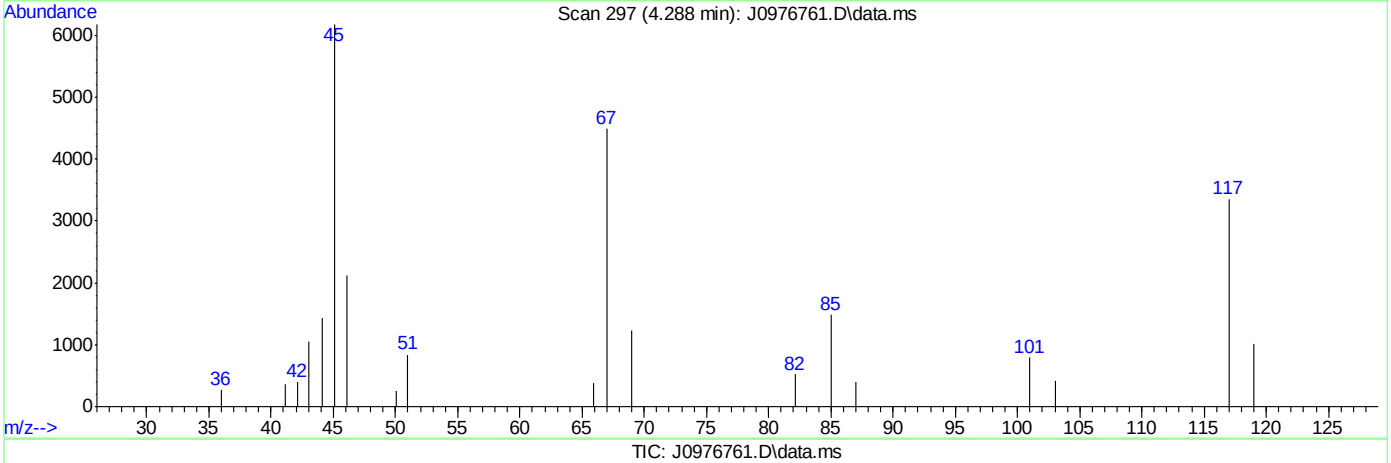
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue May 24 13:19:58 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(107) Ethanol

4.288min (+0.006) 768.11ug/L m

response 38199

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	34.43
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
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Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
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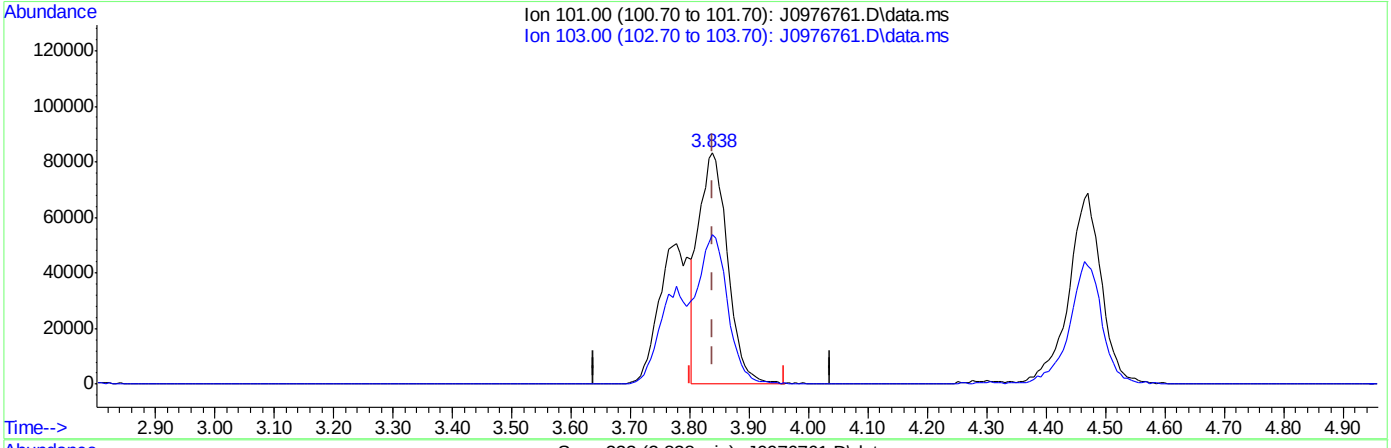
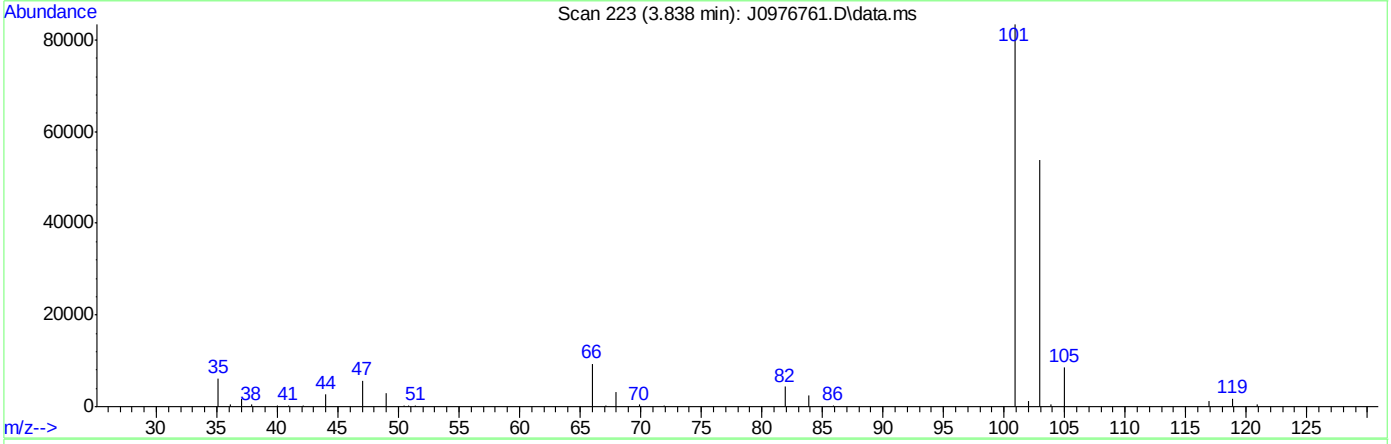




TIC: J0976761.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 22.50ug/L

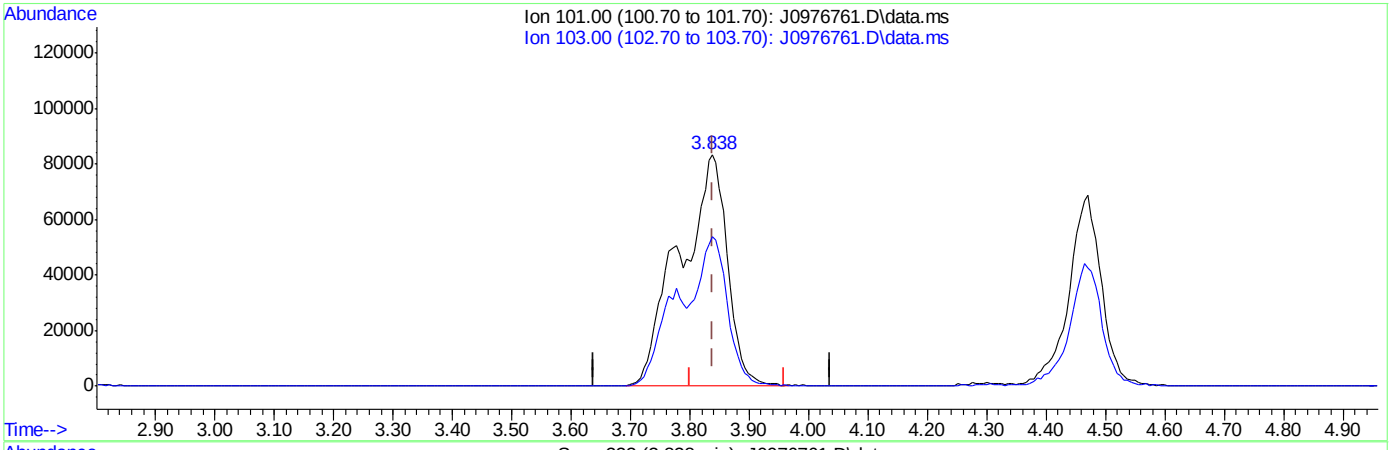
response 283923

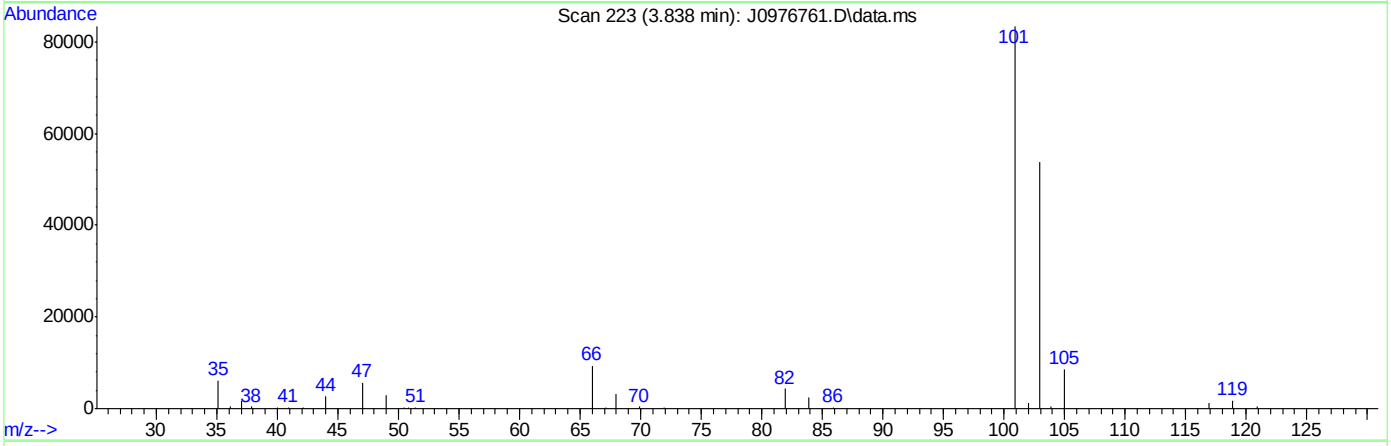
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	64.02
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 36.74ug/L m

response 463705

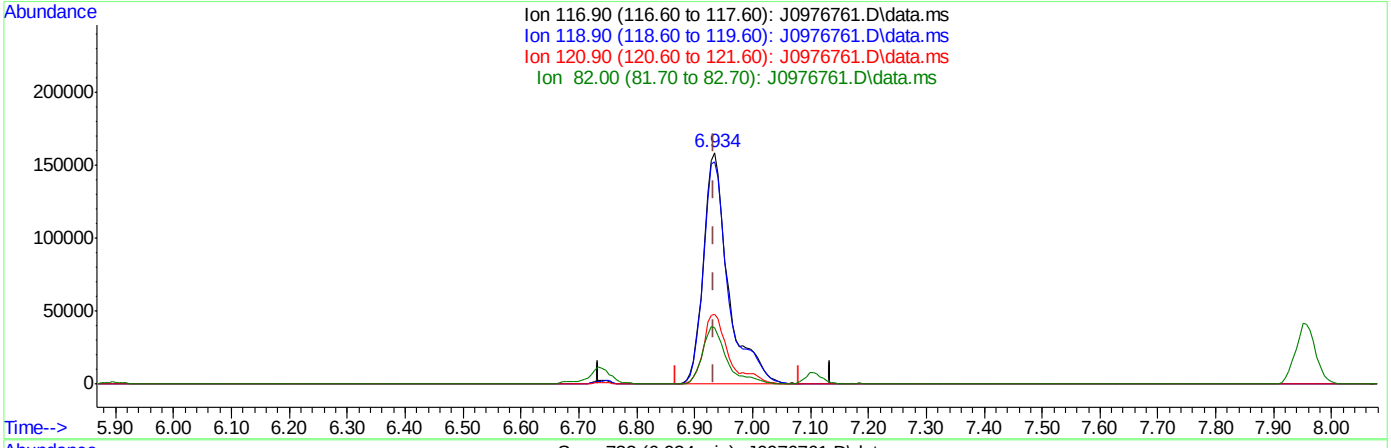
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	64.53
0.00	0.00	0.00
0.00	0.00	0.00

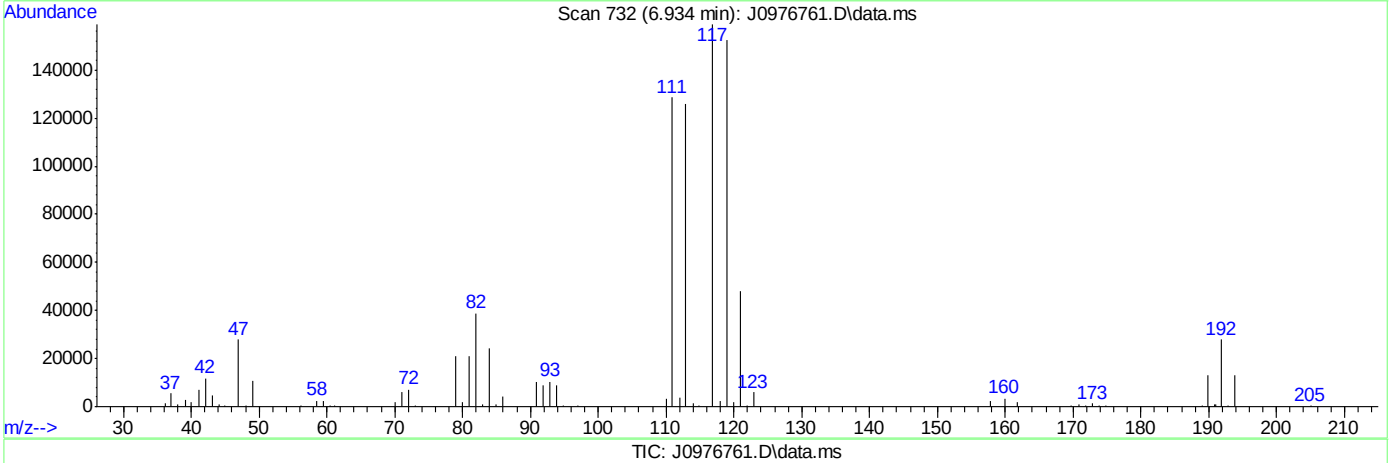
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 45.36ug/L

response 482517

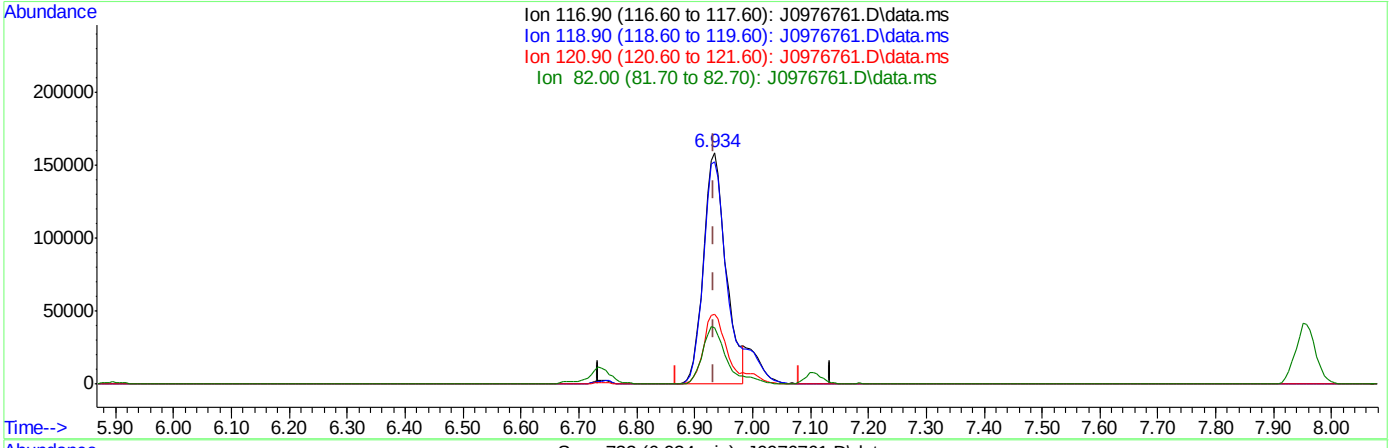
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.93
120.90	32.20	30.30
82.00	25.20	24.42

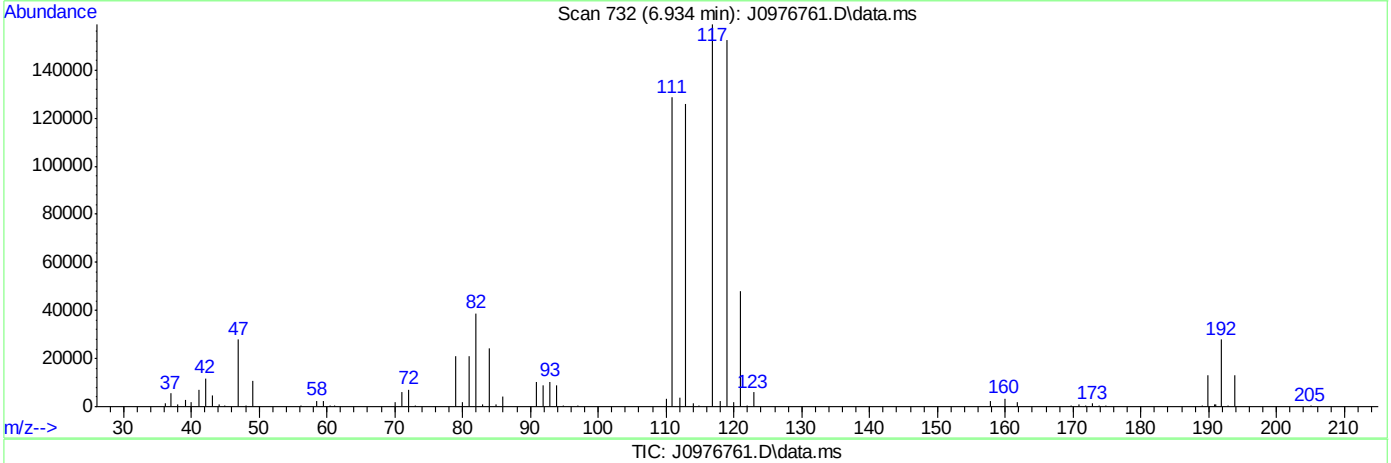
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 40.81ug/L m

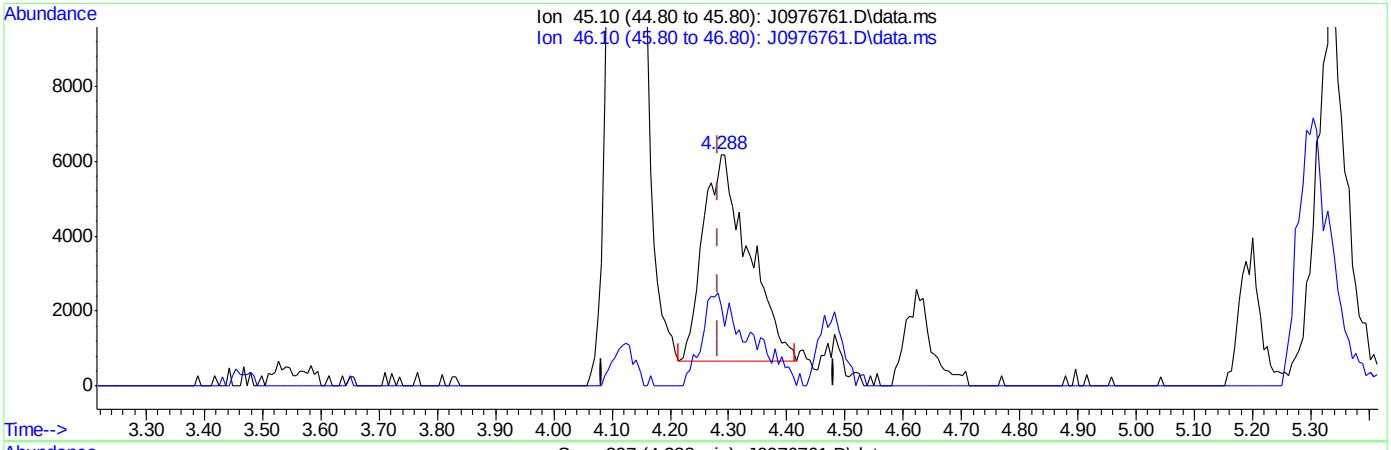
response 434206

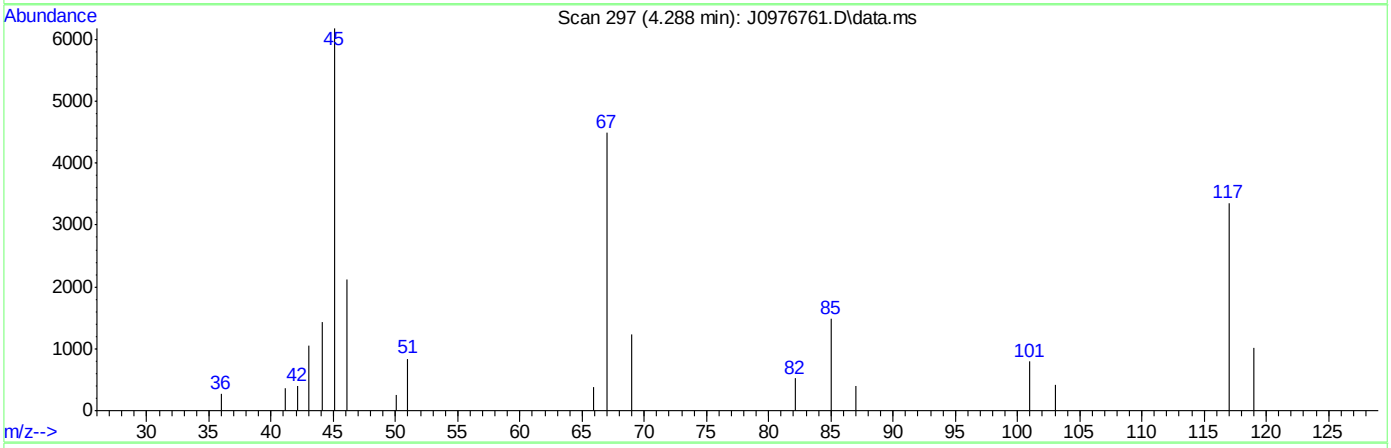
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.93
120.90	32.20	30.30
82.00	25.20	24.42

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(107) Ethanol

4.288min (+0.006) 603.66ug/L

response 30021

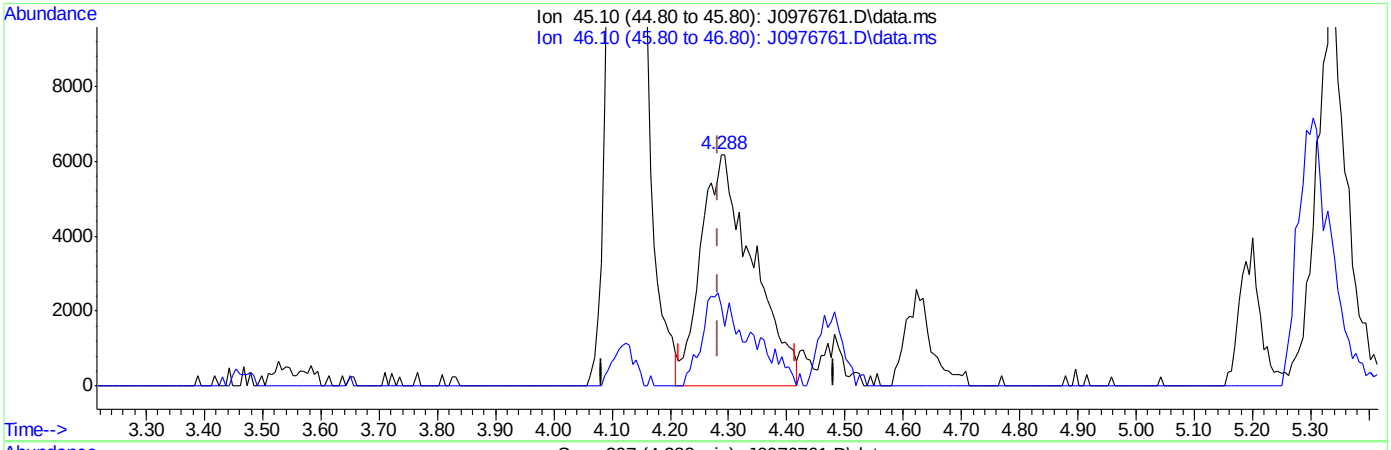
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	38.54
0.00	0.00	0.00
0.00	0.00	0.00

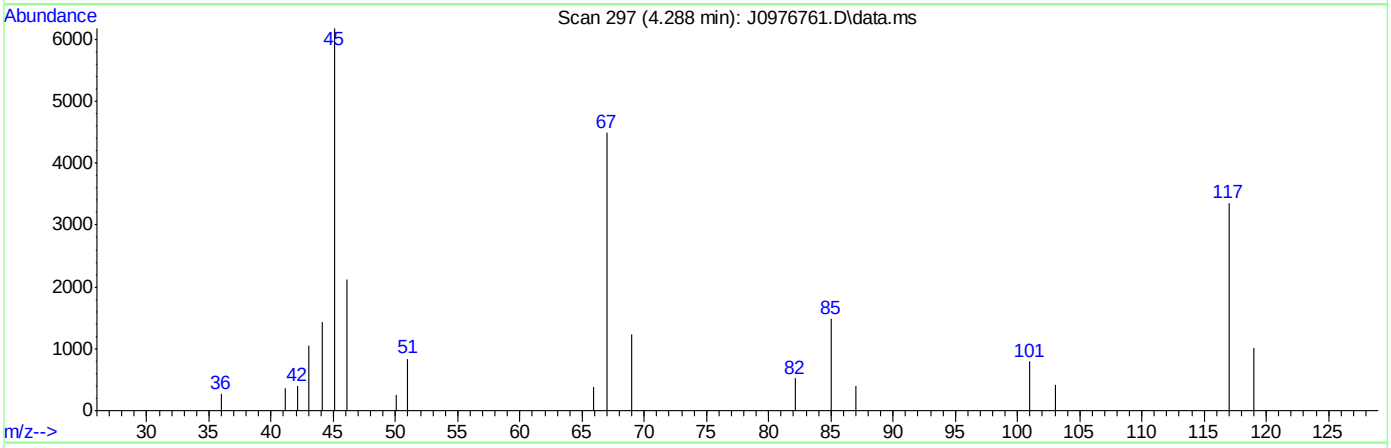
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\052416\
Data File : J0976761.D
Acq On : 24 May 2016 1:36 pm
Operator : DARSHNAP
Sample : icv5312-5 Inst : MSVOA6
Misc : MS33959,VJ5312,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: May 25 09:12:51 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed May 25 09:12:25 2016
Response via : Initial Calibration





TIC: J0976761.D\data.ms

(107) Ethanol

4.288min (+0.006) 768.11ug/L m

response 38199

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	34.43
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/02/16 10:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976942.D
Acq On : 1 Jun 2016 9:42 am
Operator : darshnap
Sample : cc5312-5 Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 10:04:07 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1419709	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1084071	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	611123	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	77606	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	361419	50.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.58%			
46) 1,2-Dichloroethane-d4	7.476	65	389481	48.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.14%			
57) Toluene-d8	9.301	98	1407542	51.34	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.68%			
79) 4-Bromofluorobenzene	12.051	95	560980	49.81	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	351054	37.66	ug/L	99
3) Chloromethane	2.913	50	379081	36.43	ug/L	97
4) Vinyl Chloride	3.059	62	345847	32.95	ug/L	96
5) 1,3-Butadiene	3.047	54	139642	32.05	ug/L	98
6) Bromomethane	3.473	94	201292	33.24	ug/L	95
7) Chloroethane	3.625	64	155587	33.71	ug/L	98
8) Trichlorofluoromethane	3.850	101	472052m	33.49	ug/L	
9) Ethyl Ether	4.118	59	229966	36.90	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.361	67	327519	33.67	ug/L	98
11) 1,1-Dichloroethene	4.404	61	419128	34.50	ug/L	96
12) Freon 113	4.477	101	287644	33.89	ug/L	95
13) Carbon Disulfide	4.477	76	943278	33.55	ug/L	98
14) Iodomethane	4.586	142	487380	35.34	ug/L	98
15) Allyl chloride	4.921	41	381464	36.60	ug/L	97
16) Methylene Chloride	5.049	49	387934	36.38	ug/L	98
17) Acetone	5.067	58	88783	183.67	ug/L	95
18) Methyl acetate	5.195	74	172060	203.64	ug/L	98
19) trans-1,2-Dichloroethene	5.231	61	384426	35.27	ug/L	99
20) Hexane	5.298	56	260368	35.85	ug/L	93
21) Methyl Tert Butyl Ether	5.335	73	805669	38.01	ug/L	95
22) Acetonitrile	5.584	40	110753	348.49	ug/L	99
23) Di-isopropyl ether	5.718	45	891913	37.59	ug/L	98
24) Chloroprene	5.876	53	394274	34.41	ug/L	96
25) 1,1-Dichloroethane	5.894	63	510843	35.24	ug/L	98
26) Acrylonitrile	5.925	53	371431	185.53	ug/L	97
27) ETBE	6.113	59	922465	38.09	ug/L	100
28) Vinyl acetate	6.107	43	2273393	184.25	ug/L	99
29) cis-1,2-Dichloroethene	6.478	96	348482	37.18	ug/L	97
30) 2,2-Dichloropropane	6.606	77	427270	35.76	ug/L	99
31) Bromochloromethane	6.685	128	160894	38.30	ug/L	96
32) Cyclohexane	6.734	56	490181	36.33	ug/L	97
33) Chloroform	6.740	83	558503	35.61	ug/L	98
34) Ethyl acetate	6.801	43	814220	183.58	ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976942.D
Acq On : 1 Jun 2016 9:42 am
Operator : darshnap
Sample : cc5312-5 Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 10:04:07 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.910	42	44703	34.08 ug/L	95
37) Carbon Tetrachloride	6.934	117	414728m	34.91 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	482187	34.32 ug/L	97
39) 2-Butanone	7.020	43	345116	178.46 ug/L	97
40) 1,1-Dichloropropene	7.105	75	389946	35.90 ug/L	98
41) tert-Butyl Formate	7.184	59	1993554	353.65 ug/L	97
42) Propionitrile	7.330	54	248608	346.34 ug/L	78
43) Methacrylonitrile	7.360	41	1043067	360.81 ug/L	96
44) Benzene	7.354	78	1208369	35.43 ug/L	98
45) TAME	7.433	73	848268	38.37 ug/L	98
47) 1,2-Dichloroethane	7.543	62	379913	36.70 ug/L	99
48) Trichloroethene	7.932	95	307393	35.11 ug/L	97
49) Methylcyclohexane	7.957	83	547002	36.41 ug/L	98
50) Dibromomethane	8.358	93	172627	38.01 ug/L	96
51) 1,2-Dichloropropane	8.449	63	304362	36.20 ug/L	98
52) Bromodichloromethane	8.492	83	401388	37.18 ug/L	97
53) Methyl methacrylate	8.589	41	153168	36.87 ug/L	95
54) 2-Chloroethyl vinyl ether	9.003	63	784093	189.31 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	484023	39.91 ug/L	99
58) Toluene	9.350	91	1286954	38.00 ug/L	100
59) 2-Nitropropane	9.557	41	221081	198.31 ug/L	95
60) 4-Methyl-2-pentanone	9.672	43	855108	202.93 ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	406177	42.21 ug/L	99
62) Tetrachloroethene	9.757	166	311526	35.86 ug/L	98
63) Ethyl methacrylate	9.836	69	312570	40.49 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	216916	40.31 ug/L	98
65) Dibromochloromethane	10.098	129	292370	41.63 ug/L	98
66) 1,3-Dichloropropane	10.183	76	432438	39.63 ug/L	99
67) 1,2-Dibromoethane	10.360	107	248738	41.25 ug/L	98
68) 2-hexanone	10.487	43	600037	196.32 ug/L	99
69) 1-Chlorohexane	10.798	91	406699	36.81 ug/L	98
70) Ethylbenzene	10.858	91	1452358	36.82 ug/L	98
71) Chlorobenzene	10.864	112	865512	37.49 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	306590	40.01 ug/L	98
73) m,p-Xylene	10.998	91	2227878	75.37 ug/L	100
74) o-Xylene	11.436	91	1183392	40.80 ug/L	99
75) Styrene	11.485	104	944990	38.45 ug/L	99
76) Bromoform	11.546	173	185574	40.07 ug/L	98
77) Isopropylbenzene	11.741	105	1400178	41.08 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.087	53	73319	40.84 ug/L	93
81) n-Propylbenzene	12.160	91	1683747	39.00 ug/L	99
82) Bromobenzene	12.185	156	398072	38.76 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.221	83	307117	39.18 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	1285989	40.57 ug/L	100
85) 2-Chlorotoluene	12.349	91	1199538	38.16 ug/L	100
86) trans-1,4-Dichloro-2-B...	12.398	53	66746	39.81 ug/L	97
87) 1,2,3-Trichloropropane	12.385	110	83211	41.41 ug/L	92
88) Cyclohexanone	12.446	55	36411	167.01 ug/L	88
89) 4-Chlorotoluene	12.519	91	1122301	39.69 ug/L	99
90) a-Methyl Styrene	12.604	118	694712	38.24 ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976942.D
Acq On : 1 Jun 2016 9:42 am
Operator : darshnap
Sample : cc5312-5 Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 10:04:07 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.683	91	703376	38.42	ug/L	99
92)	1,2,4-Trimethylbenzene	12.750	105	1293451	40.77	ug/L	99
93)	Pentachloroethane	12.738	167	252017	40.78	ug/L	99
94)	sec-Butylbenzene	12.866	105	1533375	40.15	ug/L	99
95)	4-Isopropyltoluene	13.000	119	1321919	39.66	ug/L	100
96)	1,3-Dichlorobenzene	13.134	146	696580	39.25	ug/L	99
97)	1,4-Dichlorobenzene	13.219	146	719655	38.98	ug/L	98
98)	n-Butylbenzene	13.432	92	749163	41.25	ug/L	100
99)	Benzyl Chloride	13.444	126	121338	43.33	ug/L	99
100)	1,2-Dichlorobenzene	13.645	146	653226	39.45	ug/L	100
101)	1,2-Dibromo-3-Chloropr...	14.381	75	40953	37.76	ug/L	89
102)	Hexachlorobutadiene	14.928	225	275509	37.01	ug/L	98
103)	1,2,4-Trichlorobenzene	14.971	180	458502	41.63	ug/L	100
104)	Naphthalene	15.257	128	681441	40.98	ug/L	99
105)	1,2,3-Trichlorobenzene	15.427	180	388431	40.67	ug/L	98
107)	Ethanol	4.276	45	30567m	702.44	ug/L	
108)	acrolein	4.757	56	181281	277.46	ug/L	99
109)	Tert Butyl Alcohol	5.383	59	156484	400.70	ug/L	97
110)	tert Amyl alcohol	7.573	59	124204	433.80	ug/L	90
111)	Isobutyl alcohol	7.452	42	107830	851.73	ug/L	90
112)	1,4-Dioxane	8.668	88	33029	737.66	ug/L	98
113)	3,3-Dimethyl-1-butanol	10.433	57	698786	2042.47	ug/L	99

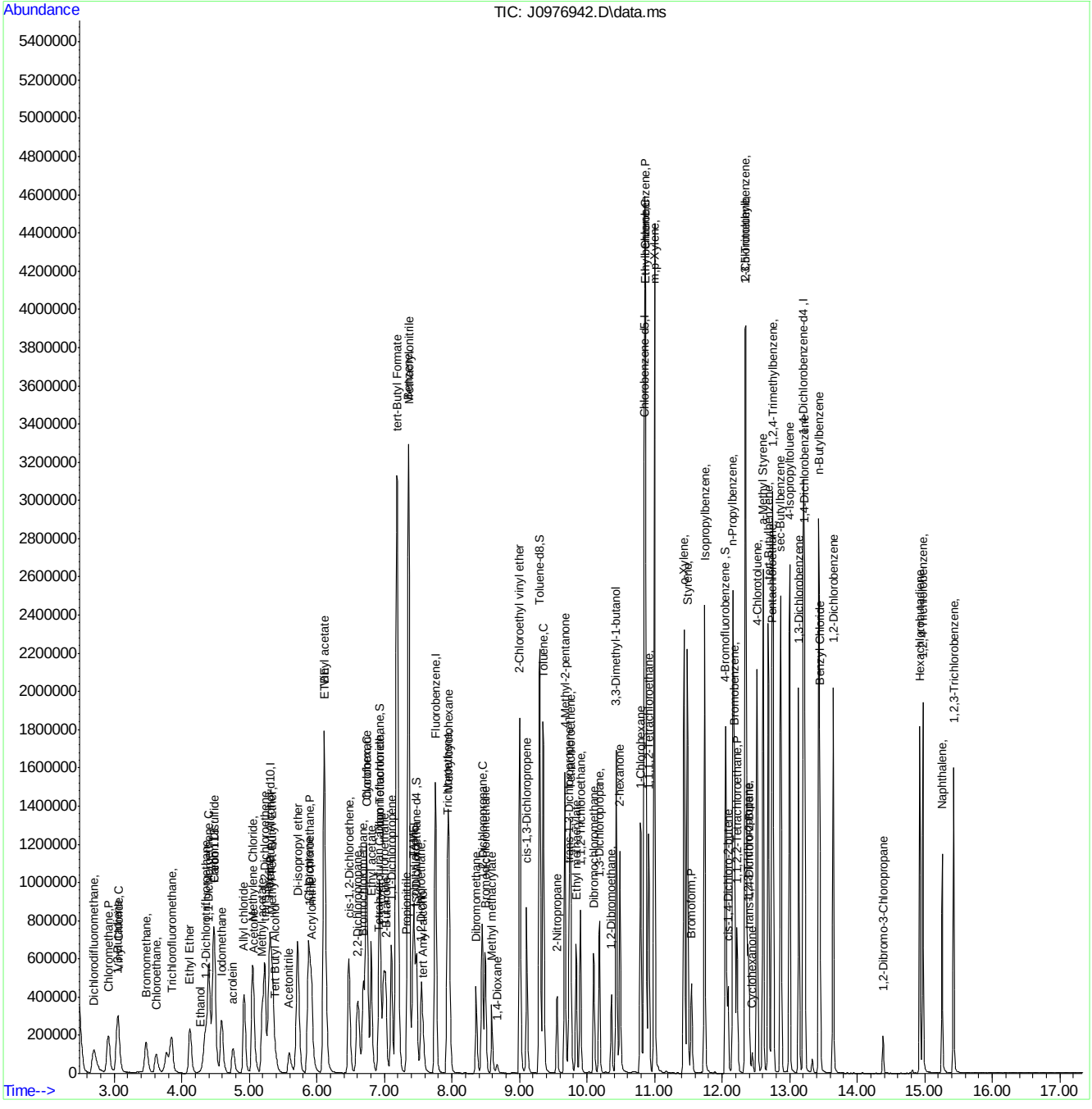
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976942.D
Acq On : 1 Jun 2016 9:42 am
Operator : darshnap
Sample : cc5312-5 Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 10:04:07 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

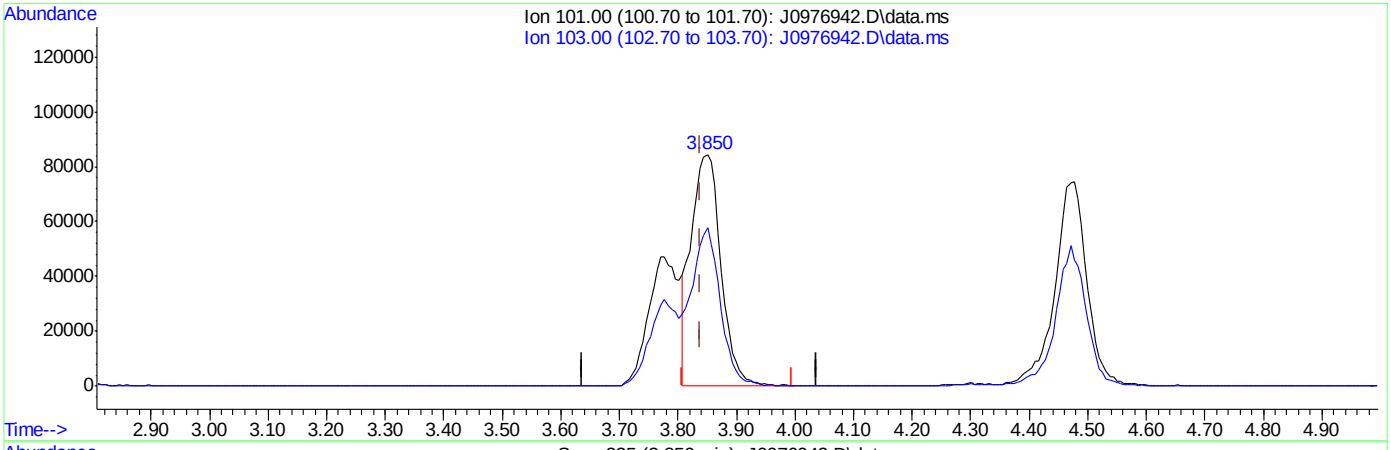
Sample Number:	VJ5323-CC5312	**Method:**	SW846 8260B
Lab FileID:	J0976942.D	**Analyst approved:**	06/02/16 09:53 Darshna Patel
Injection Time:	06/01/16 09:42	**Supervisor approved:**	06/02/16 10:21 Juan Garcia

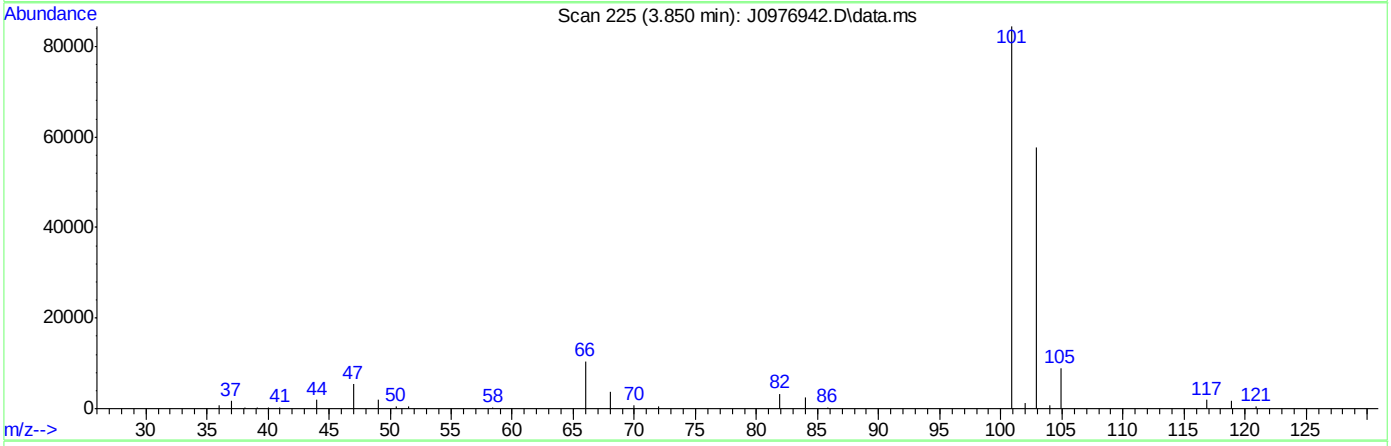
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.85	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976942.D
Acq On : 1 Jun 2016 9:42 am
Operator : darshnap
Sample : cc5312-5 Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 10:03:25 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976942.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.012) 21.16ug/L

response 298224

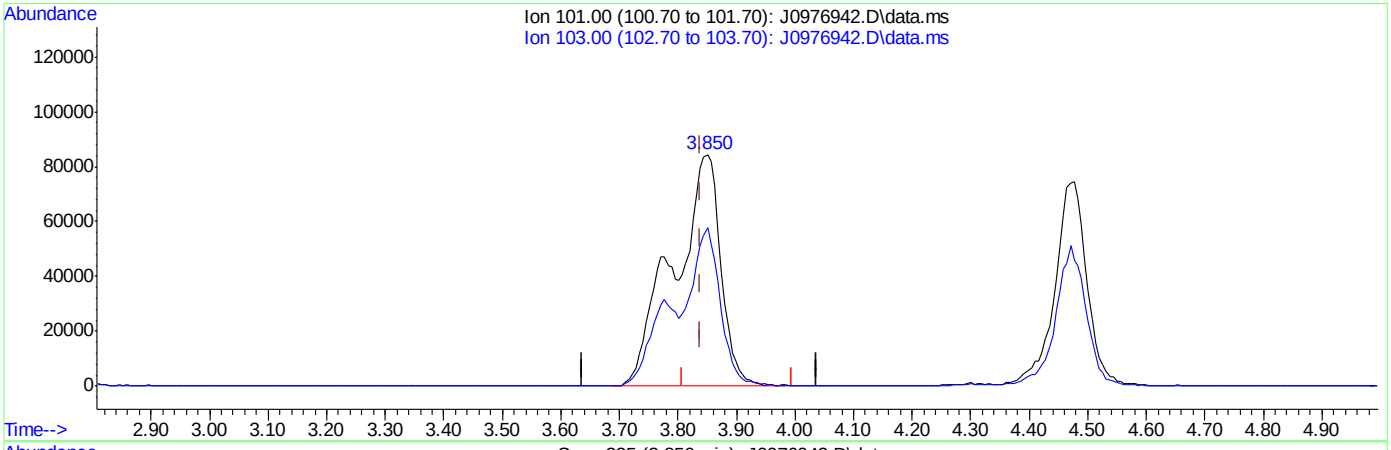
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	67.98
0.00	0.00	0.00
0.00	0.00	0.00

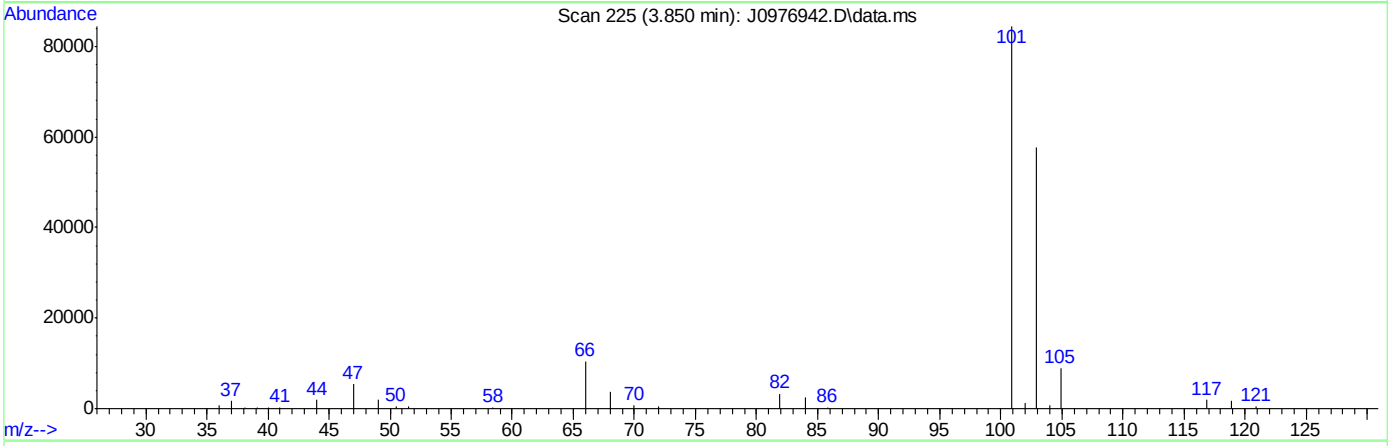
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976942.D
Acq On : 1 Jun 2016 9:42 am
Operator : darshnap
Sample : cc5312-5 Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 10:03:25 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976942.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.012) 33.49ug/L m

response 472052

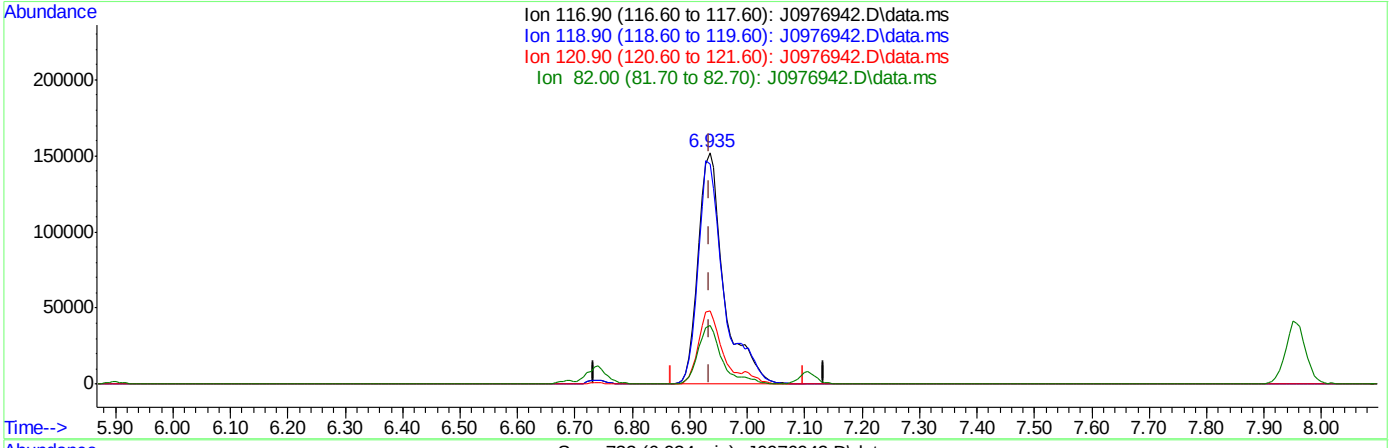
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	68.28
0.00	0.00	0.00
0.00	0.00	0.00

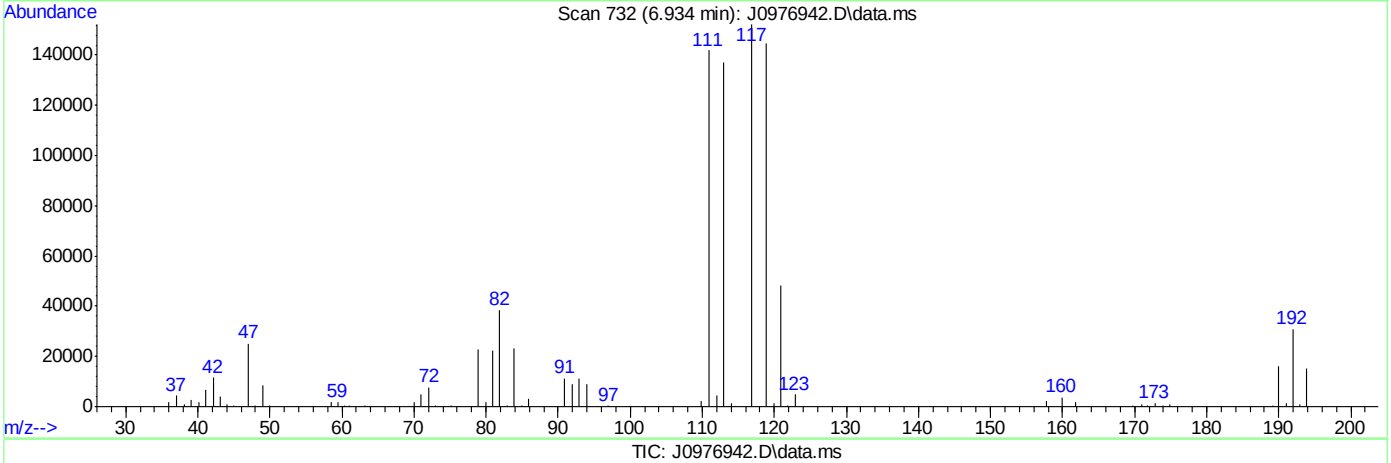
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976942.D
Acq On : 1 Jun 2016 9:42 am
Operator : darshnap
Sample : cc5312-5 Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 10:03:25 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976942.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 39.99ug/L

response 475102

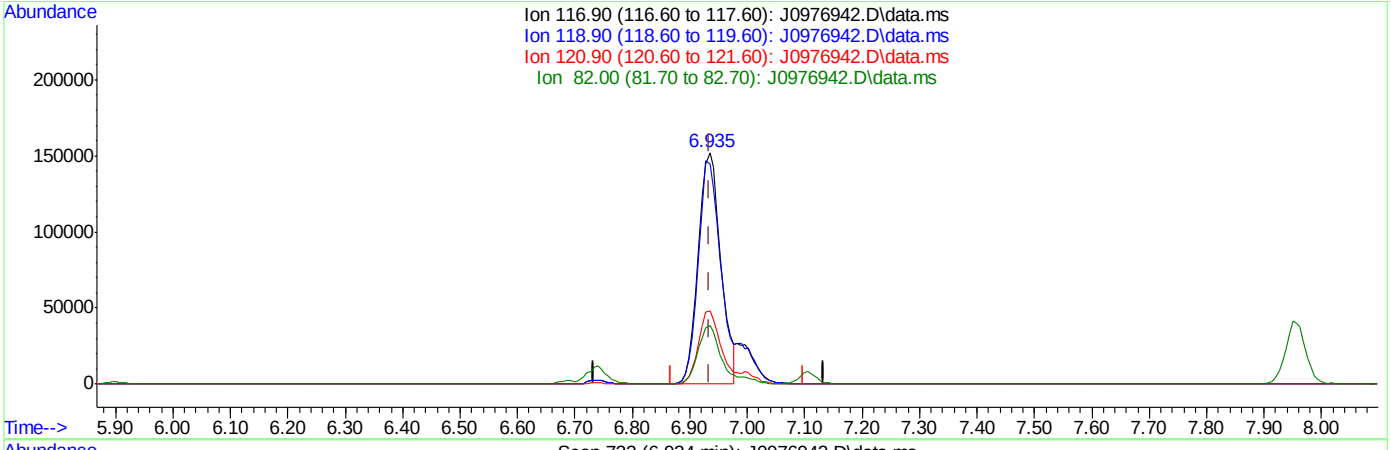
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.17
120.90	32.20	31.69
82.00	25.20	25.25

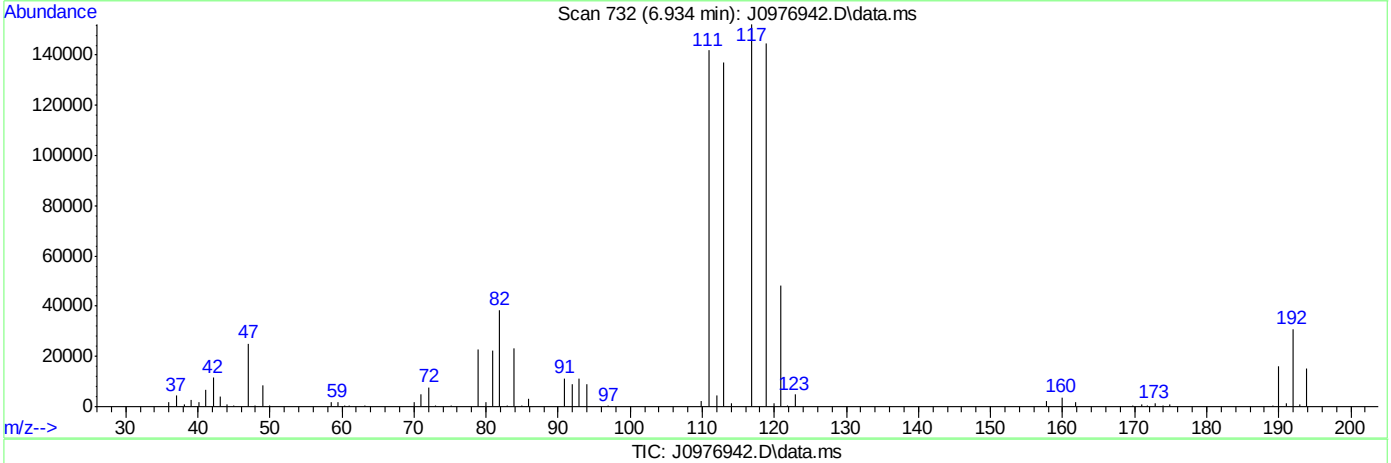
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976942.D
Acq On : 1 Jun 2016 9:42 am
Operator : darshnap
Sample : cc5312-5 Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 10:03:25 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976942.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 34.91ug/L m

response 414728

Ion	Exp%	Act%
116.90	100	100
118.90	99.10	95.17
120.90	32.20	31.69
82.00	25.20	25.25

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976942.D
Acq On : 1 Jun 2016 9:42 am
Operator : darshnap
Sample : cc5312-5 Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 01 10:03:25 2016
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Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
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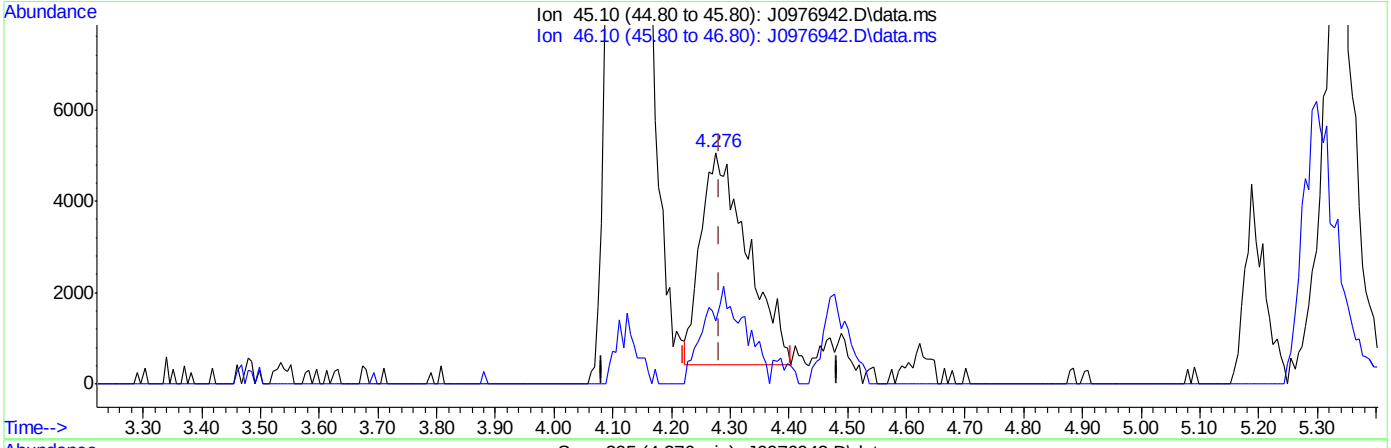

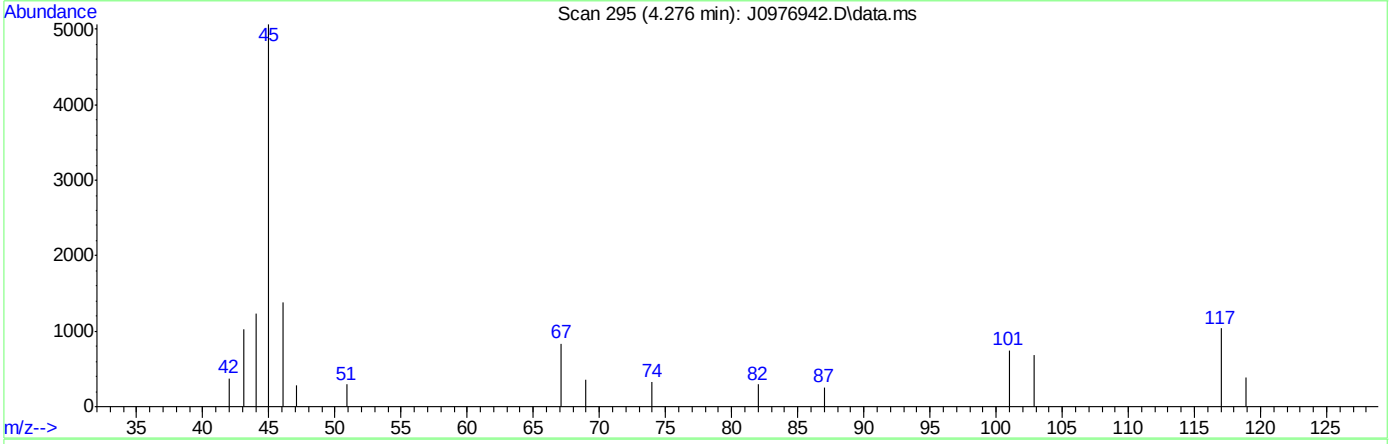

TIC: J0976942.D\data.ms

(107) Ethanol

4.276min (-0.006) 585.01ug/L

response 25457

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	29.94
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976942.D
Acq On : 1 Jun 2016 9:42 am
Operator : darshnap
Sample : cc5312-5 Inst : MSVOA6
Misc : MS34031,VJ5323,,,,,
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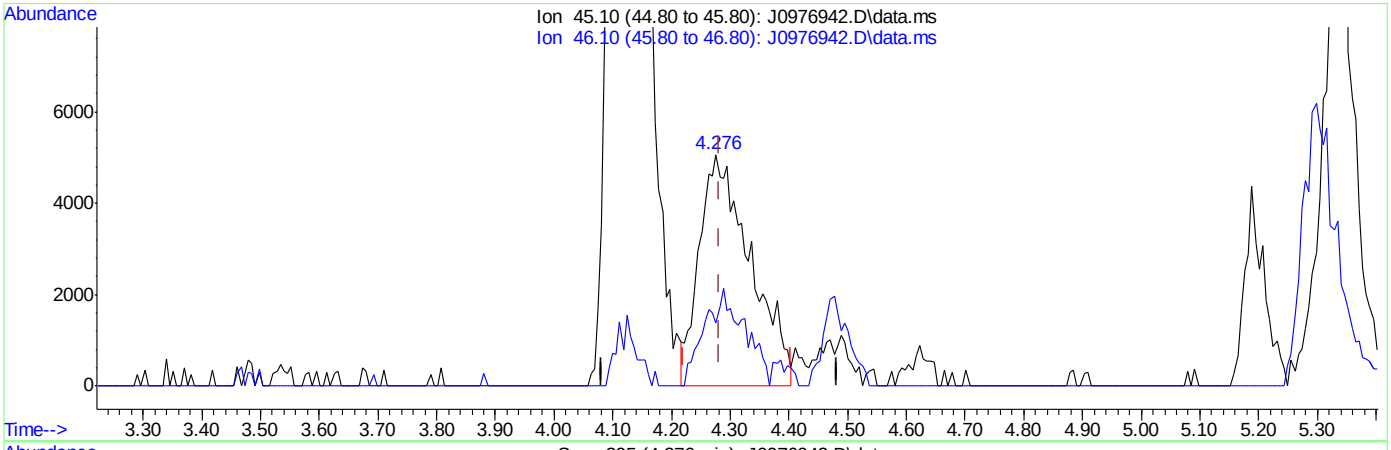
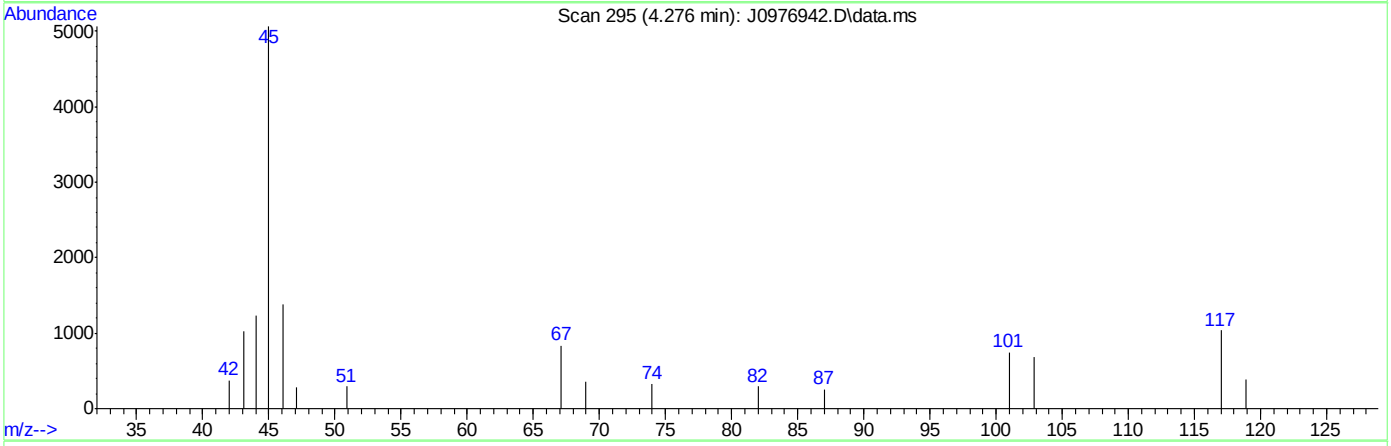




TIC: J0976942.D\data.ms

(107) Ethanol

4.276min (-0.006) 702.44ug/L m

response 30567

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	27.36
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/02/16 10:21

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976967.D
Acq On : 1 Jun 2016 7:46 pm
Operator : darshnap
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34048,VJ5323,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 02 07:52:49 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1350043	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1042690	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	588780	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	85170	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	336164	49.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.38%			
46) 1,2-Dichloroethane-d4	7.476	65	371760	48.25	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.50%			
57) Toluene-d8	9.301	98	1334554	50.61	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.22%			
79) 4-Bromofluorobenzene	12.051	95	536074	49.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	335696	37.87	ug/L	98
3) Chloromethane	2.901	50	368428	37.23	ug/L	98
4) Vinyl Chloride	3.047	62	361370	36.29	ug/L	97
5) 1,3-Butadiene	3.041	54	167906	40.53	ug/L	96
6) Bromomethane	3.461	94	198770	34.70	ug/L	96
7) Chloroethane	3.613	64	154699	35.85	ug/L	97
8) Trichlorofluoromethane	3.838	101	471596m	35.18	ug/L	
9) Ethyl Ether	4.118	59	208431	35.17	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.355	67	322247	34.84	ug/L	98
11) 1,1-Dichloroethene	4.398	61	405575	35.10	ug/L	98
12) Freon 113	4.471	101	284519	35.25	ug/L	94
13) Carbon Disulfide	4.477	76	914684	34.21	ug/L	98
14) Iodomethane	4.586	142	456281	34.79	ug/L	100
15) Allyl chloride	4.921	41	364254	36.76	ug/L	97
16) Methylene Chloride	5.042	49	340957	33.49	ug/L	97
17) Acetone	5.067	58	75829	164.54	ug/L	96
18) Methyl acetate	5.195	74	151591	188.67	ug/L	97
19) trans-1,2-Dichloroethene	5.231	61	364185	35.14	ug/L	97
20) Hexane	5.298	56	242247	35.07	ug/L	96
21) Methyl Tert Butyl Ether	5.335	73	722591	35.85	ug/L	94
22) Acetonitrile	5.590	40	108356	358.87	ug/L	97
23) Di-isopropyl ether	5.718	45	806260	35.73	ug/L	98
24) Chloroprene	5.876	53	412281	37.65	ug/L	98
25) 1,1-Dichloroethane	5.900	63	490057	35.56	ug/L	99
26) Acrylonitrile	5.925	53	351274	184.47	ug/L	95
27) ETBE	6.119	59	846236	36.74	ug/L	99
28) Vinyl acetate	6.107	43	2128647	181.43	ug/L	99
29) cis-1,2-Dichloroethene	6.478	96	315326	35.38	ug/L	99
30) 2,2-Dichloropropane	6.606	77	384892	33.88	ug/L	100
31) Bromochloromethane	6.685	128	142480	35.67	ug/L	97
32) Cyclohexane	6.734	56	486541	37.92	ug/L	97
33) Chloroform	6.740	83	527259	35.35	ug/L	99
34) Ethyl acetate	6.801	43	773102	183.30	ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976967.D
Acq On : 1 Jun 2016 7:46 pm
Operator : darshnap
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34048,VJ5323,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 02 07:52:49 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.910	42	43053	34.53 ug/L	89
37) Carbon Tetrachloride	6.934	117	409293m	36.23 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	466921	34.95 ug/L	96
39) 2-Butanone	7.020	43	310520	168.86 ug/L	96
40) 1,1-Dichloropropene	7.105	75	376581	36.46 ug/L	96
41) tert-Butyl Formate	7.184	59	1837520	342.33 ug/L	99
42) Propionitrile	7.330	54	244504	358.20 ug/L #	76
43) Methacrylonitrile	7.354	41	971899	352.97 ug/L	98
44) Benzene	7.354	78	1146653	35.36 ug/L	100
45) TAME	7.433	73	775974	36.91 ug/L	98
47) 1,2-Dichloroethane	7.549	62	349182	35.43 ug/L	100
48) Trichloroethene	7.932	95	287961	34.58 ug/L	93
49) Methylcyclohexane	7.957	83	535736	37.50 ug/L	98
50) Dibromomethane	8.358	93	153845	35.62 ug/L	97
51) 1,2-Dichloropropane	8.449	63	276632	34.57 ug/L	98
52) Bromodichloromethane	8.492	83	358235	34.90 ug/L	97
53) Methyl methacrylate	8.589	41	141844	35.91 ug/L	96
54) 2-Chloroethyl vinyl ether	9.003	63	721746	183.17 ug/L	99
55) cis-1,3-Dichloropropene	9.106	75	431813	37.44 ug/L	99
58) Toluene	9.350	91	1223539	37.54 ug/L	99
59) 2-Nitropropane	9.556	41	202650	188.99 ug/L	97
60) 4-Methyl-2-pentanone	9.672	43	804706	198.54 ug/L	99
61) trans-1,3-Dichloropropene	9.733	75	366047	39.55 ug/L	97
62) Tetrachloroethene	9.757	166	309036	36.99 ug/L	99
63) Ethyl methacrylate	9.836	69	290363	39.13 ug/L	98
64) 1,1,2-Trichloroethane	9.903	83	195576	37.78 ug/L	98
65) Dibromochloromethane	10.098	129	258014	38.19 ug/L	99
66) 1,3-Dichloropropane	10.183	76	388992	37.07 ug/L	98
67) 1,2-Dibromoethane	10.360	107	218639	37.70 ug/L	99
68) 2-hexanone	10.487	43	559456	190.18 ug/L	97
69) 1-Chlorohexane	10.791	91	394958	37.16 ug/L	98
70) Ethylbenzene	10.858	91	1416088	37.37 ug/L	99
71) Chlorobenzene	10.864	112	822911	37.04 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	278984	37.85 ug/L	96
73) m,p-Xylene	10.998	91	2148383	75.59 ug/L	99
74) o-Xylene	11.436	91	1130154	40.51 ug/L	99
75) Styrene	11.485	104	885332	37.43 ug/L	99
76) Bromoform	11.546	173	163519	36.79 ug/L	96
77) Isopropylbenzene	11.741	105	1363204	41.58 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	55569	32.36 ug/L	94
81) n-Propylbenzene	12.160	91	1634719	39.30 ug/L	99
82) Bromobenzene	12.185	156	368163	37.21 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.215	83	283299	37.51 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	1247648	40.86 ug/L	99
85) 2-Chlorotoluene	12.349	91	1149023	37.94 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.398	53	50787	31.57 ug/L #	86
87) 1,2,3-Trichloropropane	12.379	110	74543	38.50 ug/L	98
88) Cyclohexanone	12.446	55	28209	134.30 ug/L	96
89) 4-Chlorotoluene	12.513	91	1066050	39.13 ug/L	96
90) a-Methyl Styrene	12.604	118	691268	39.48 ug/L	100

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976967.D
Acq On : 1 Jun 2016 7:46 pm
Operator : darshnap
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34048,VJ5323,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 02 07:52:49 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration

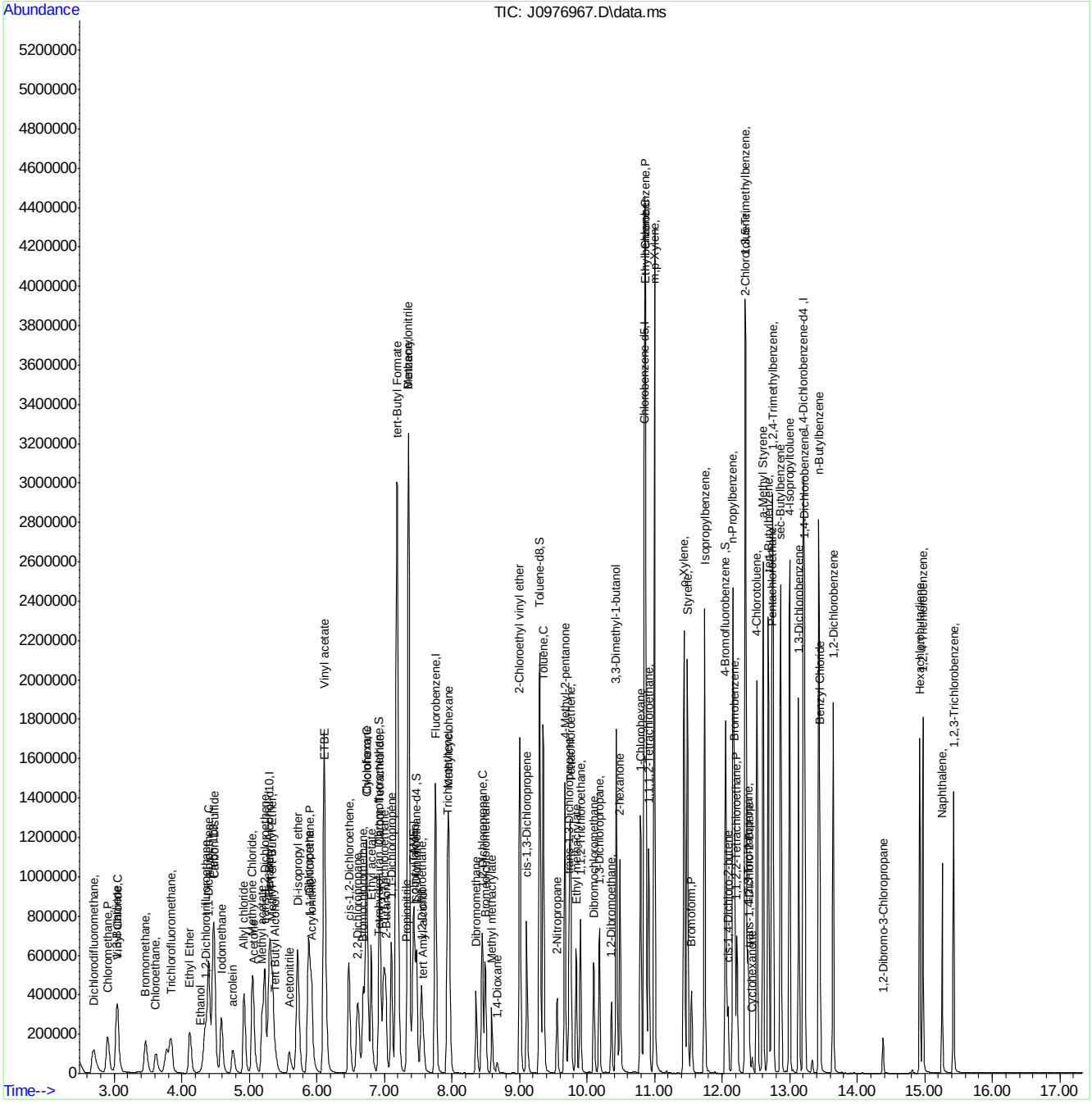
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.683	91	696188	39.47	ug/L	99
92)	1,2,4-Trimethylbenzene	12.750	105	1238739	40.53	ug/L	99
93)	Pentachloroethane	12.738	167	235437	39.54	ug/L	97
94)	sec-Butylbenzene	12.866	105	1503508	40.86	ug/L	100
95)	4-Isopropyltoluene	13.000	119	1293451	40.28	ug/L	99
96)	1,3-Dichlorobenzene	13.134	146	651802	38.12	ug/L	98
97)	1,4-Dichlorobenzene	13.219	146	670739	37.68	ug/L	98
98)	n-Butylbenzene	13.432	92	723674	41.36	ug/L	99
99)	Benzyl Chloride	13.444	126	99164	37.11	ug/L	97
100)	1,2-Dichlorobenzene	13.645	146	606295	38.00	ug/L	98
101)	1,2-Dibromo-3-Chloropr...	14.381	75	37040	35.44	ug/L	87
102)	Hexachlorobutadiene	14.928	225	271119	37.79	ug/L	97
103)	1,2,4-Trichlorobenzene	14.971	180	418678	39.46	ug/L	97
104)	Naphthalene	15.257	128	624065	39.00	ug/L	99
105)	1,2,3-Trichlorobenzene	15.427	180	352444	38.33	ug/L	98
107)	Ethanol	4.276	45	36287m	759.82	ug/L	
108)	acrolein	4.757	56	162566	226.72	ug/L	96
109)	Tert Butyl Alcohol	5.377	59	158934	369.03	ug/L	95
110)	tert Amyl alcohol	7.573	59	124620	396.60	ug/L	94
111)	Isobutyl alcohol	7.452	42	107752	775.52	ug/L	96
112)	1,4-Dioxane	8.668	88	38068	775.86	ug/L	92
113)	3,3-Dimethyl-1-butanol	10.433	57	705106	1870.19	ug/L	100

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976967.D
Acq On : 1 Jun 2016 7:46 pm
Operator : darshnap
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34048,VJ5323,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 02 07:52:49 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

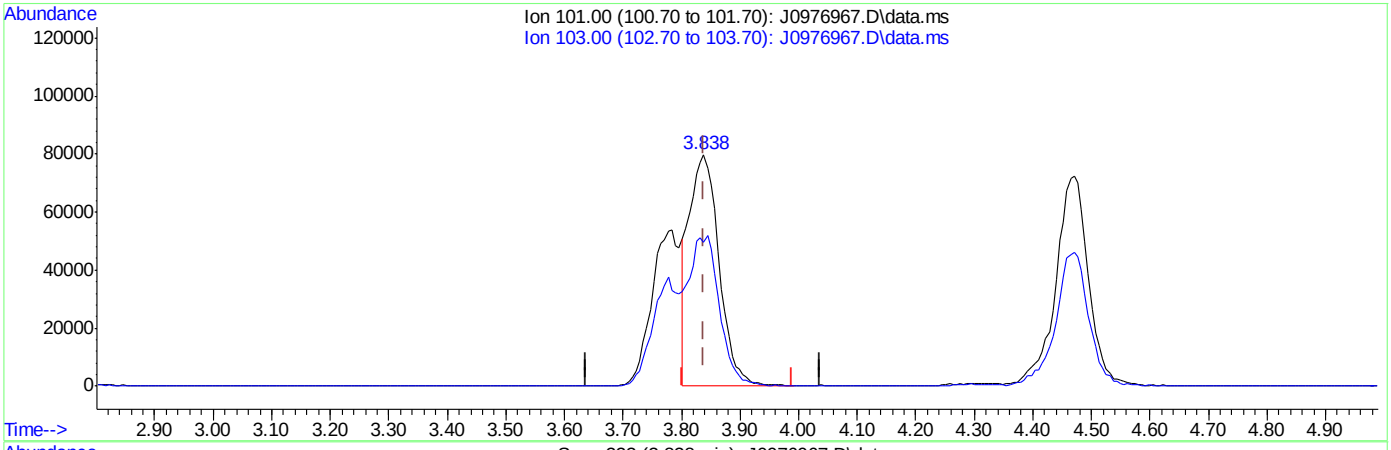
Sample Number:	VJ5323-ECC5312	**Method:**	SW846 8260B
Lab FileID:	J0976967.D	**Analyst approved:**	06/02/16 09:53 Darshna Patel
Injection Time:	06/01/16 19:46	**Supervisor approved:**	06/02/16 10:21 Juan Garcia

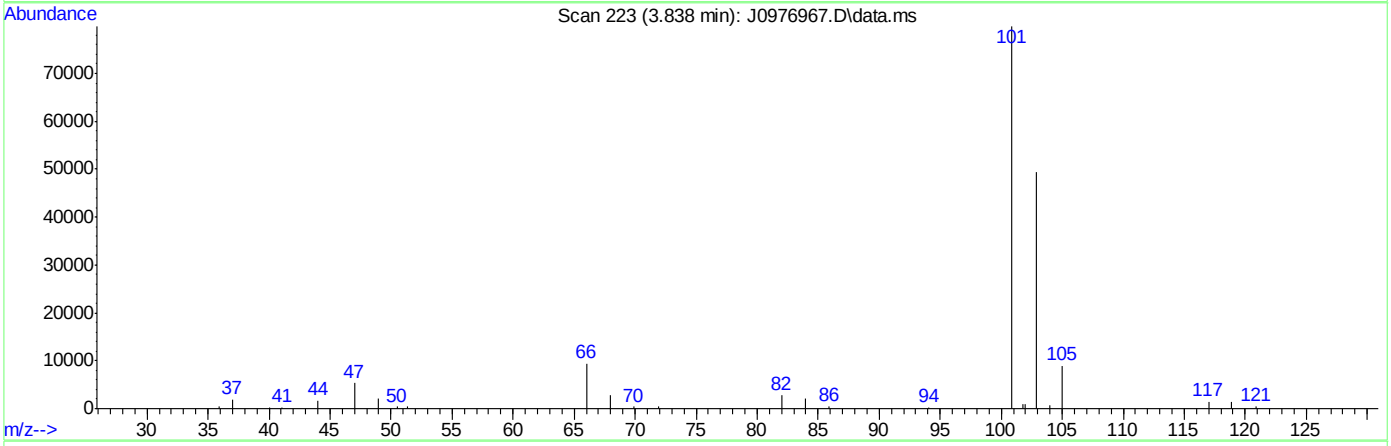
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976967.D
Acq On : 1 Jun 2016 7:46 pm
Operator : darshnap
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34048,VJ5323,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 02 07:42:47 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.838min (-0.000) 21.12ug/L

response 283050

Ion	Exp%	Act%
101.00	100	100
103.00	62.30	61.99
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976967.D
Acq On : 1 Jun 2016 7:46 pm
Operator : darshnap
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34048,VJ5323,,,,,
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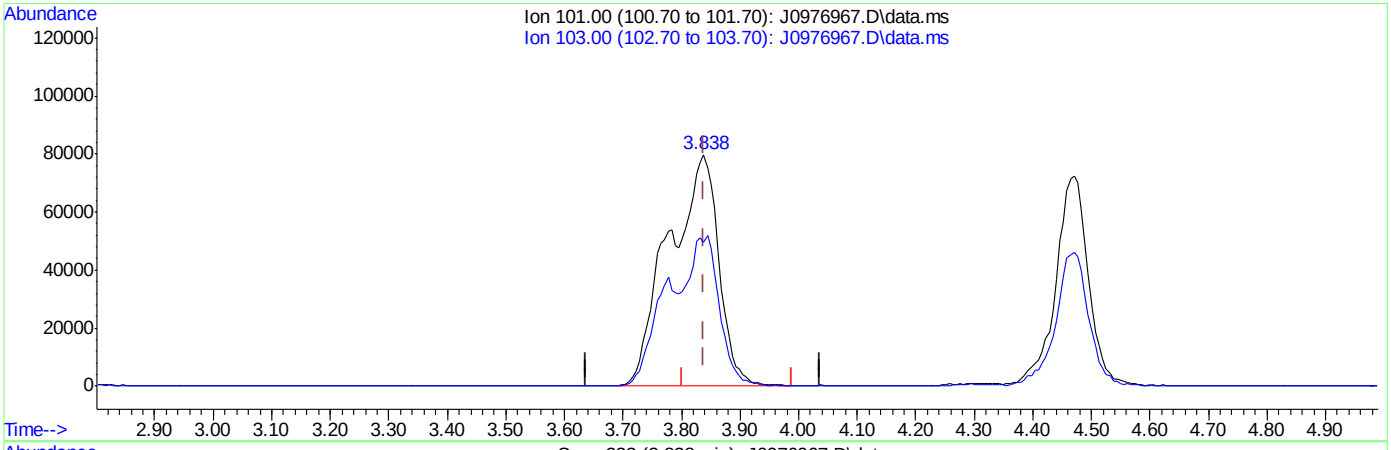
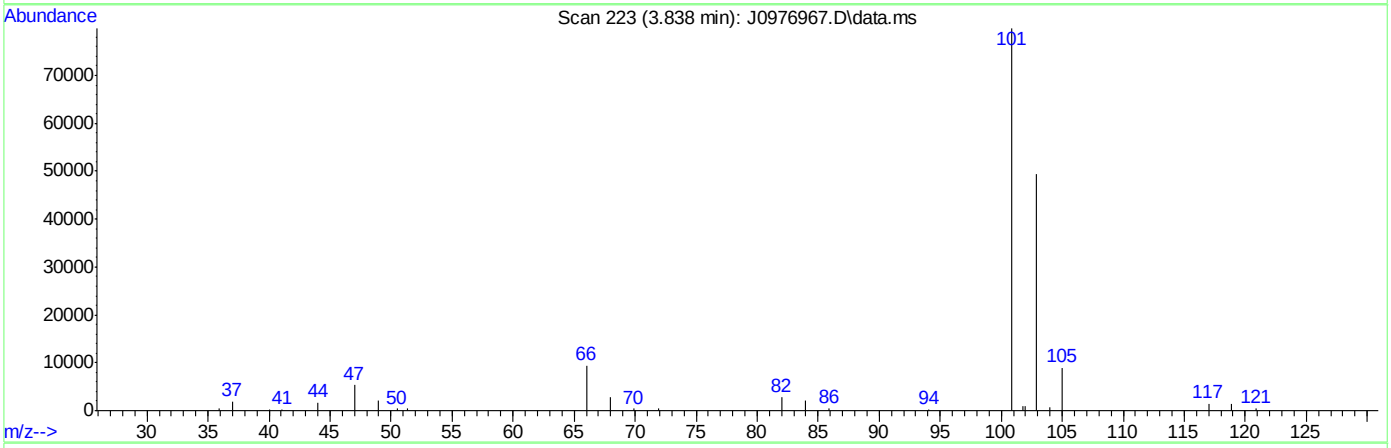
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.838min (-0.000) 35.18ug/L m

response 471596

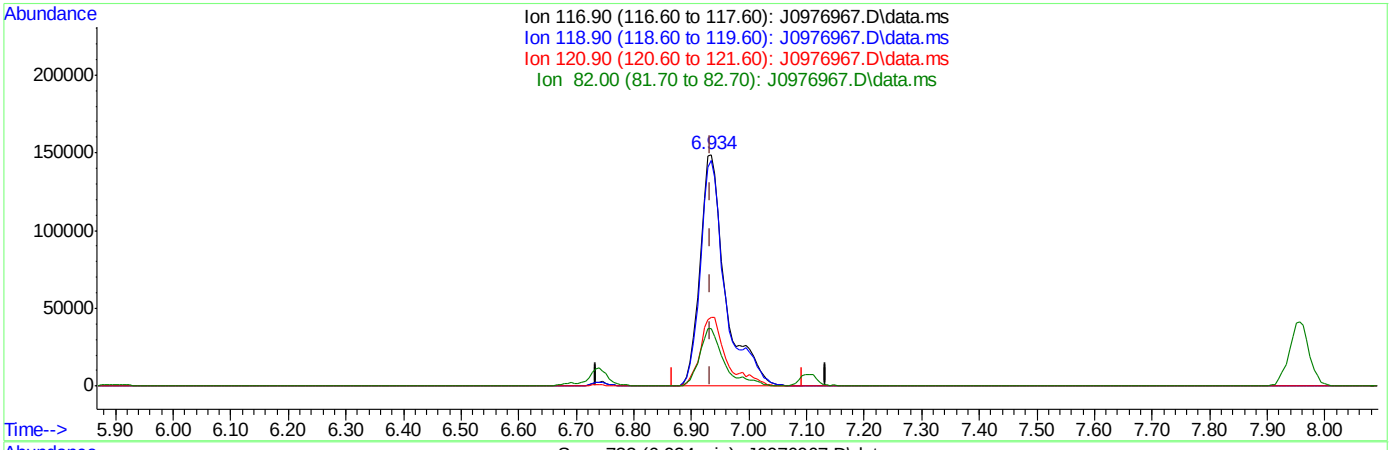
Ion	Exp%	Act%
101.00	100	100
103.00	62.30	61.99
0.00	0.00	0.00
0.00	0.00	0.00

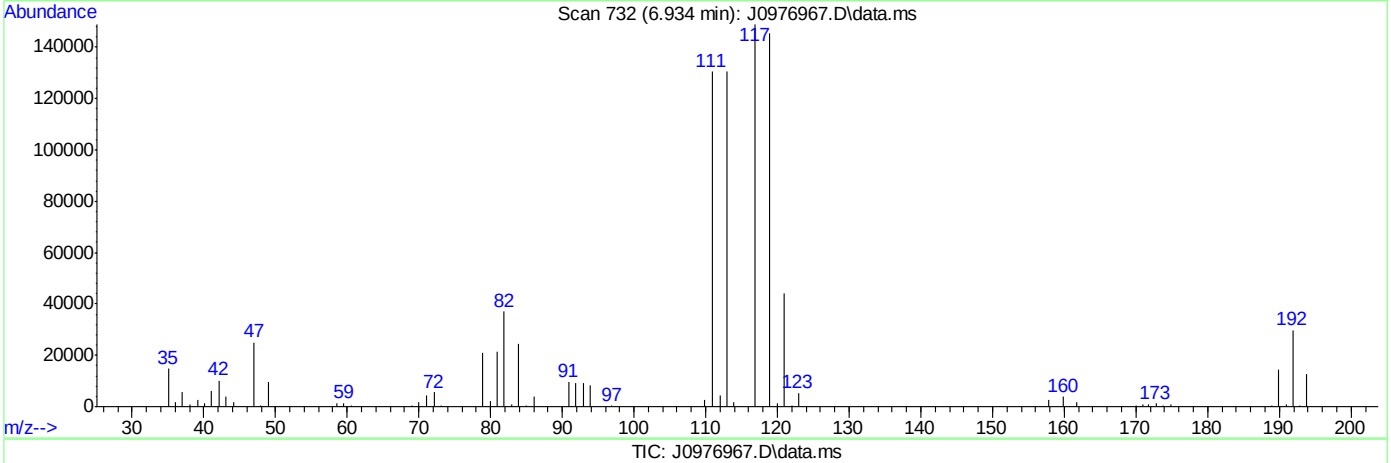
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976967.D
Acq On : 1 Jun 2016 7:46 pm
Operator : darshnap
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34048,VJ5323,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 02 07:42:47 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976967.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 40.61ug/L

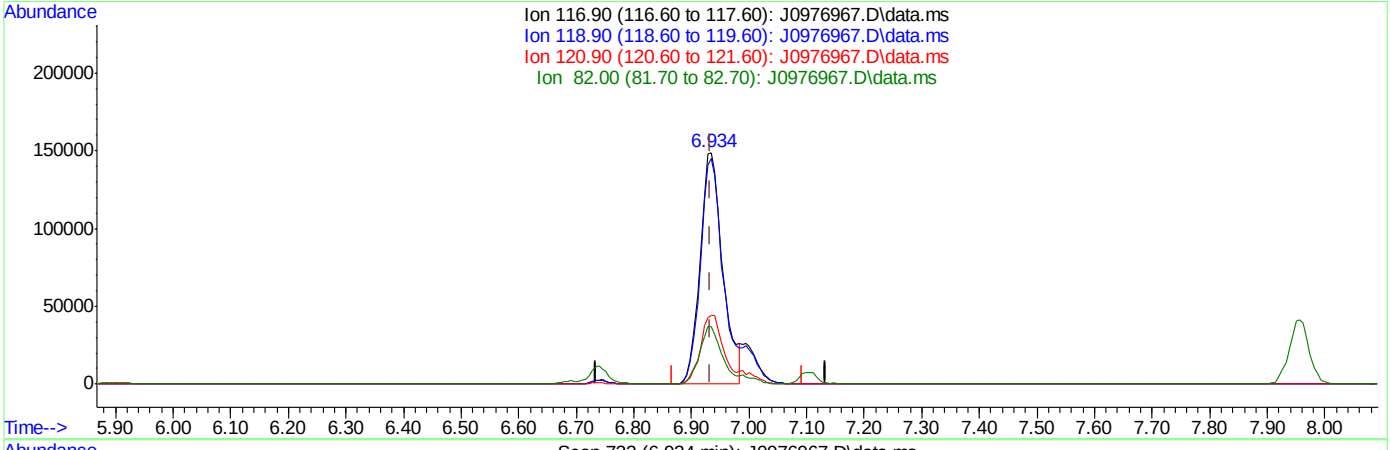
response 458779

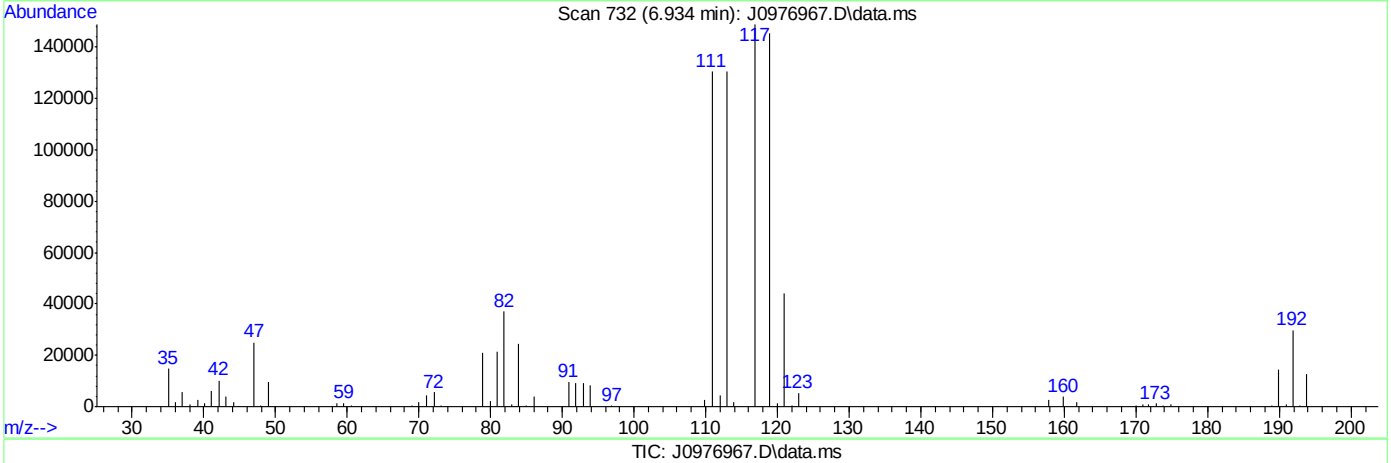
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	97.64
120.90	32.20	29.61
82.00	25.20	24.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976967.D
Acq On : 1 Jun 2016 7:46 pm
Operator : darshnap
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34048,VJ5323,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 02 07:42:47 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976967.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (+0.000) 36.23ug/L m

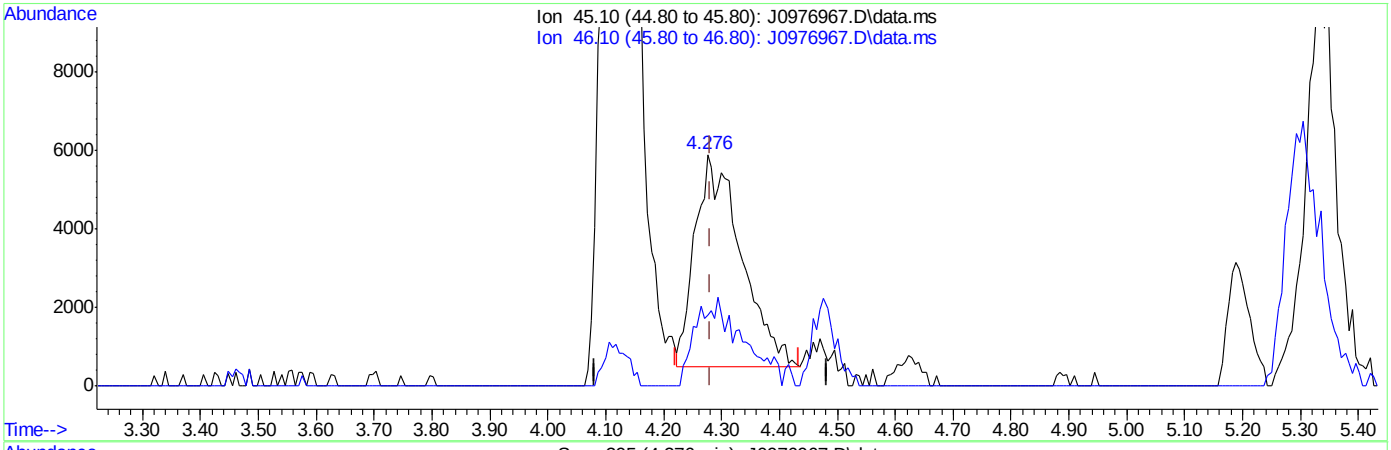
response 409293

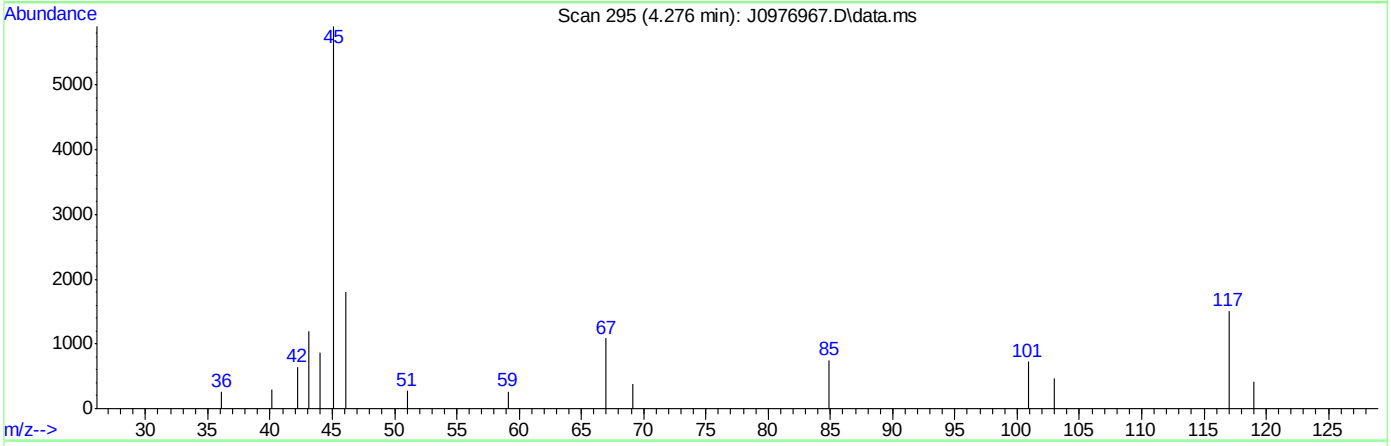
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	97.64
120.90	32.20	29.61
82.00	25.20	24.87

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976967.D
Acq On : 1 Jun 2016 7:46 pm
Operator : darshnap
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34048,VJ5323,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 02 07:42:47 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976967.D\data.ms

(107) Ethanol

4.276min (-0.006) 627.15ug/L

response 29951

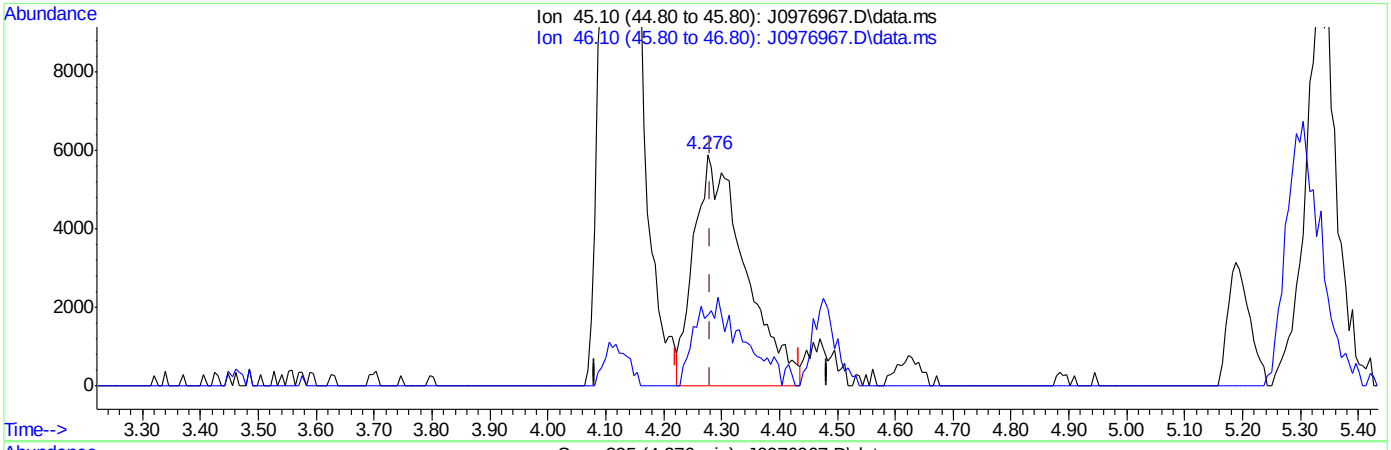
Ion	Exp%	Act%
45.10	100	100
46.10	34.10	33.39
0.00	0.00	0.00
0.00	0.00	0.00

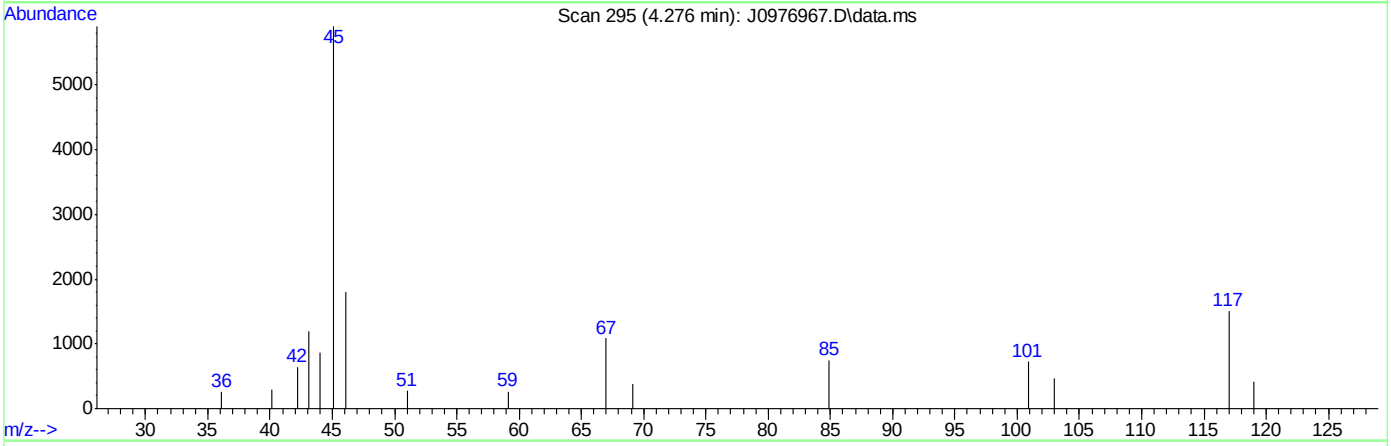
SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\060116\
Data File : J0976967.D
Acq On : 1 Jun 2016 7:46 pm
Operator : darshnap
Sample : ecc5312-5 Inst : MSVOA6
Misc : MS34048,VJ5323,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 02 07:42:47 2016
Quant Method : C:\msdchem\2\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 01 09:17:29 2016
Response via : Initial Calibration





TIC: J0976967.D\data.ms

(107) Ethanol

4.276min (-0.006) 759.82ug/L m

response 36287

Ion	Exp%	Act%
45.10	100	100
46.10	34.10	30.59
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/06/16 15:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976971.d
Acq On : 2 Jun 2016 9:44 am
Operator : darshnap
Sample : cc5312-5
Misc : MS34048,VJ5325,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 08:01:21 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1440743	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1089342	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	609941	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	93545	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	363652	49.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.72%			
46) 1,2-Dichloroethane-d4	7.476	65	397604	48.36	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.72%			
57) Toluene-d8	9.295	98	1417878	51.47	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.94%			
79) 4-Bromofluorobenzene	12.051	95	556544	49.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	351514	37.18	ug/L	98
3) Chloromethane	2.907	50	380283	36.01	ug/L	99
4) Vinyl Chloride	3.053	62	358851	33.70	ug/L	97
5) 1,3-Butadiene	3.041	54	142906	32.32	ug/L	94
6) Bromomethane	3.467	94	210772	34.45	ug/L	98
7) Chloroethane	3.619	64	151033	31.76	ug/L	97
8) Trichlorofluoromethane	3.844	101	476353m	33.30	ug/L	
9) Ethyl Ether	4.118	59	237308	37.52	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.355	67	340604	34.51	ug/L	95
11) 1,1-Dichloroethene	4.398	61	442995	35.93	ug/L	96
12) Freon 113	4.465	101	304407	35.34	ug/L	97
13) Carbon Disulfide	4.477	76	992567	34.78	ug/L	99
14) Iodomethane	4.586	142	513153	36.66	ug/L	98
15) Allyl chloride	4.921	41	395246	37.37	ug/L	95
16) Methylene Chloride	5.043	49	394735	36.48	ug/L	93
17) Acetone	5.067	58	90964	185.48	ug/L	99
18) Methyl acetate	5.189	74	174361	203.35	ug/L #	92
19) trans-1,2-Dichloroethene	5.225	61	407387	36.84	ug/L	97
20) Hexane	5.298	56	265430	36.01	ug/L	96
21) Methyl Tert Butyl Ether	5.335	73	810188	37.67	ug/L	84
22) Acetonitrile	5.590	40	114024	353.71	ug/L	94
23) Di-isopropyl ether	5.718	45	888198	36.88	ug/L	98
24) Chloroprene	5.870	53	423101	36.28	ug/L	95
25) 1,1-Dichloroethane	5.894	63	536008	36.46	ug/L	99
26) Acrylonitrile	5.919	53	369878	181.92	ug/L	95
27) ETBE	6.119	59	934333	38.01	ug/L	98
28) Vinyl acetate	6.101	43	2264843	180.88	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	353528	37.17	ug/L	97
30) 2,2-Dichloropropane	6.606	77	440917	36.37	ug/L	98
31) Bromochloromethane	6.685	128	161374	37.86	ug/L	95
32) Cyclohexane	6.734	56	505557	36.92	ug/L	95
33) Chloroform	6.734	83	576210	36.21	ug/L	96
34) Ethyl acetate	6.801	43	824494	183.18	ug/L	98

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976971.d
Acq On : 2 Jun 2016 9:44 am
Operator : darshnap
Sample : cc5312-5
Misc : MS34048,VJ5325,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 08:01:21 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	49218	37.01 ug/L	89
37) Carbon Tetrachloride	6.934	117	439718m	36.47 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	500650	35.11 ug/L	98
39) 2-Butanone	7.020	43	352107	179.42 ug/L	98
40) 1,1-Dichloropropene	7.099	75	402388	36.50 ug/L	97
41) tert-Butyl Formate	7.184	59	2036661	356.13 ug/L	96
42) Propionitrile	7.330	54	260184	357.17 ug/L	87
43) Methacrylonitrile	7.354	41	1052326	358.53 ug/L	98
44) Benzene	7.354	78	1234821	35.68 ug/L	95
45) TAME	7.433	73	852512	38.00 ug/L	95
47) 1,2-Dichloroethane	7.543	62	382327	36.38 ug/L	99
48) Trichloroethene	7.932	95	306001	34.44 ug/L	97
49) Methylcyclohexane	7.957	83	568173	37.27 ug/L	95
50) Dibromomethane	8.358	93	172235	37.37 ug/L	96
51) 1,2-Dichloropropane	8.443	63	303020	35.50 ug/L	97
52) Bromodichloromethane	8.492	83	387006	35.33 ug/L	97
53) Methyl methacrylate	8.589	41	154641	36.68 ug/L	94
54) 2-Chloroethyl vinyl ether	9.003	63	780552	185.65 ug/L	96
55) cis-1,3-Dichloropropene	9.106	75	480145	39.01 ug/L	97
58) Toluene	9.350	91	1295134	38.06 ug/L	99
59) 2-Nitropropane	9.550	41	221331	197.57 ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	847955	200.25 ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	410225	42.42 ug/L	98
62) Tetrachloroethene	9.757	166	326737	37.43 ug/L	97
63) Ethyl methacrylate	9.836	69	306174	39.49 ug/L	94
64) 1,1,2-Trichloroethane	9.903	83	210613	38.95 ug/L	98
65) Dibromochloromethane	10.098	129	290541	41.17 ug/L	99
66) 1,3-Dichloropropane	10.183	76	428894	39.12 ug/L	95
67) 1,2-Dibromoethane	10.360	107	243499	40.19 ug/L	95
68) 2-hexanone	10.487	43	598228	194.74 ug/L	99
69) 1-Chlorohexane	10.791	91	417172	37.57 ug/L	96
70) Ethylbenzene	10.858	91	1496068	37.82 ug/L	97
71) Chlorobenzene	10.864	112	873073	37.64 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	304868	39.21 ug/L	98
73) m,p-Xylene	10.998	91	2259633	76.17 ug/L	96
74) o-Xylene	11.436	91	1199779	41.17 ug/L	98
75) Styrene	11.485	104	950098	38.47 ug/L	99
76) Bromoform	11.546	173	181424	39.01 ug/L	98
77) Isopropylbenzene	11.741	105	1433516	41.86 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	76715	42.74 ug/L	90
81) n-Propylbenzene	12.160	91	1709952	39.68 ug/L	97
82) Bromobenzene	12.185	156	399471	38.97 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	307458	39.29 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	1301602	41.15 ug/L	97
85) 2-Chlorotoluene	12.349	91	1215610	38.75 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.398	53	71213	42.50 ug/L #	85
87) 1,2,3-Trichloropropane	12.379	110	80445	40.11 ug/L	95
88) Cyclohexanone	12.446	55	43246	198.74 ug/L	89
89) 4-Chlorotoluene	12.519	91	1132653	40.13 ug/L	96
90) a-Methyl Styrene	12.604	118	702900	38.76 ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976971.d
Acq On : 2 Jun 2016 9:44 am
Operator : darshnap
Sample : cc5312-5
Misc : MS34048,VJ5325,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 08:01:21 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	723276	39.58	ug/L	98
92) 1,2,4-Trimethylbenzene	12.750	105	1297409	40.98	ug/L	98
93) Pentachloroethane	12.738	167	251601	40.79	ug/L	97
94) sec-Butylbenzene	12.866	105	1551956	40.72	ug/L	97
95) 4-Isopropyltoluene	13.000	119	1343607	40.39	ug/L	98
96) 1,3-Dichlorobenzene	13.134	146	690261	38.97	ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	718503	39.00	ug/L	98
98) n-Butylbenzene	13.432	92	756391	41.73	ug/L	98
99) Benzyl Chloride	13.450	126	121735	43.54	ug/L #	54
100) 1,2-Dichlorobenzene	13.645	146	646396	39.11	ug/L	97
101) 1,2-Dibromo-3-Chloropr...	14.381	75	41138	38.00	ug/L	86
102) Hexachlorobutadiene	14.928	225	288040	38.74	ug/L	95
103) 1,2,4-Trichlorobenzene	14.971	180	452784	41.19	ug/L	98
104) Naphthalene	15.257	128	671874	40.49	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	382004	40.08	ug/L	98
107) Ethanol	4.270	45	33256	634.01	ug/L	75
108) acrolein	4.757	56	182432	231.64	ug/L	93
109) Tert Butyl Alcohol	5.377	59	178470	377.80	ug/L	95
110) tert Amyl alcohol	7.573	59	139875	405.29	ug/L	96
111) Isobutyl alcohol	7.452	42	117289	768.59	ug/L	97
112) 1,4-Dioxane	8.668	88	42028	780.01	ug/L	92
113) 3,3-Dimethyl-1-butanol	10.433	57	763952	1843.69	ug/L	96

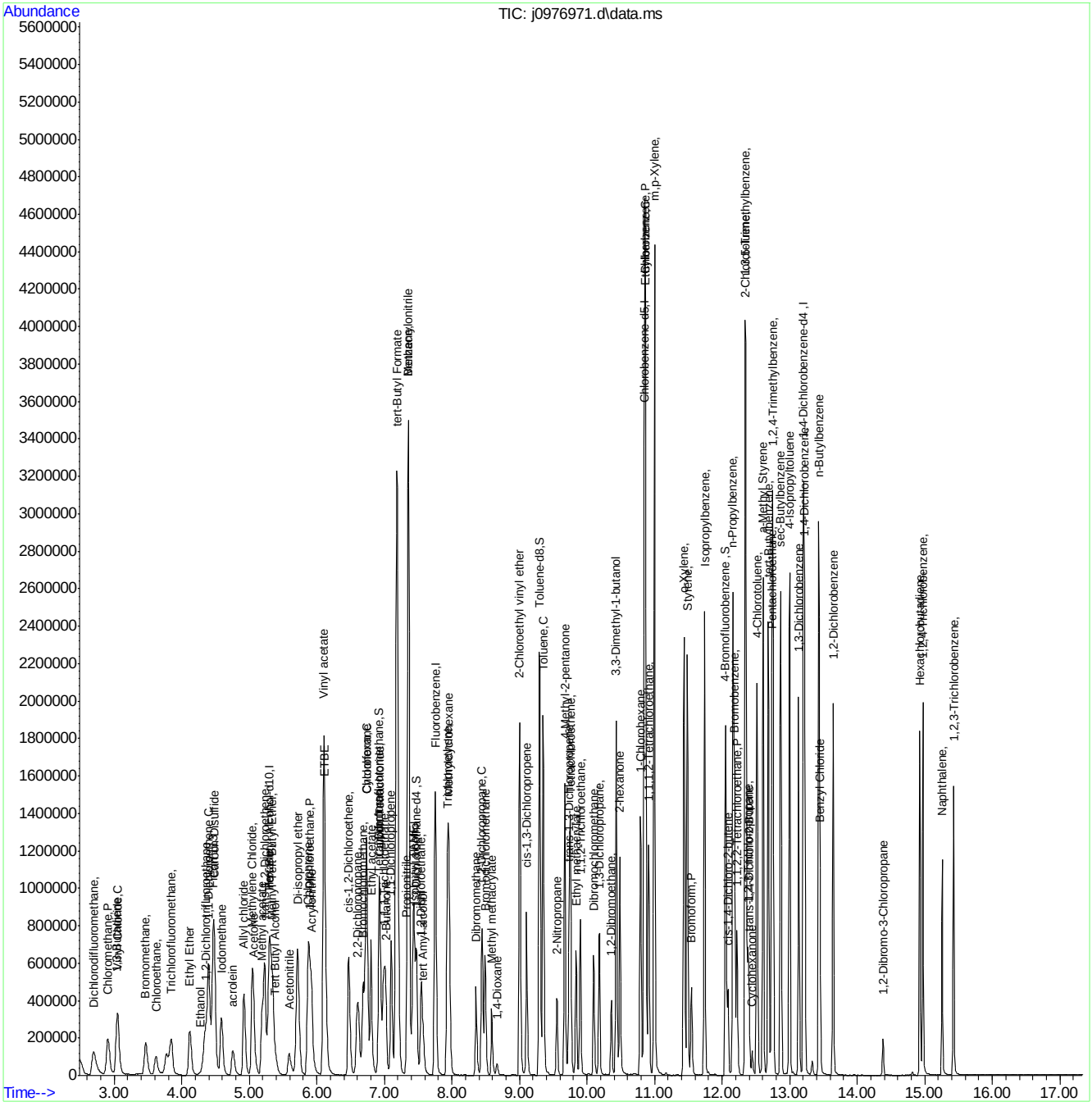
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976971.d
Acq On : 2 Jun 2016 9:44 am
Operator : darshnap
Sample : cc5312-5
Misc : MS34048,VJ5325,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 08:01:21 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration



MSJ052316a.M Mon Jun 06 10:43:27 2016 Page: 4

SGS ACCUTEST FA34367

Manual Integration Approval Summary

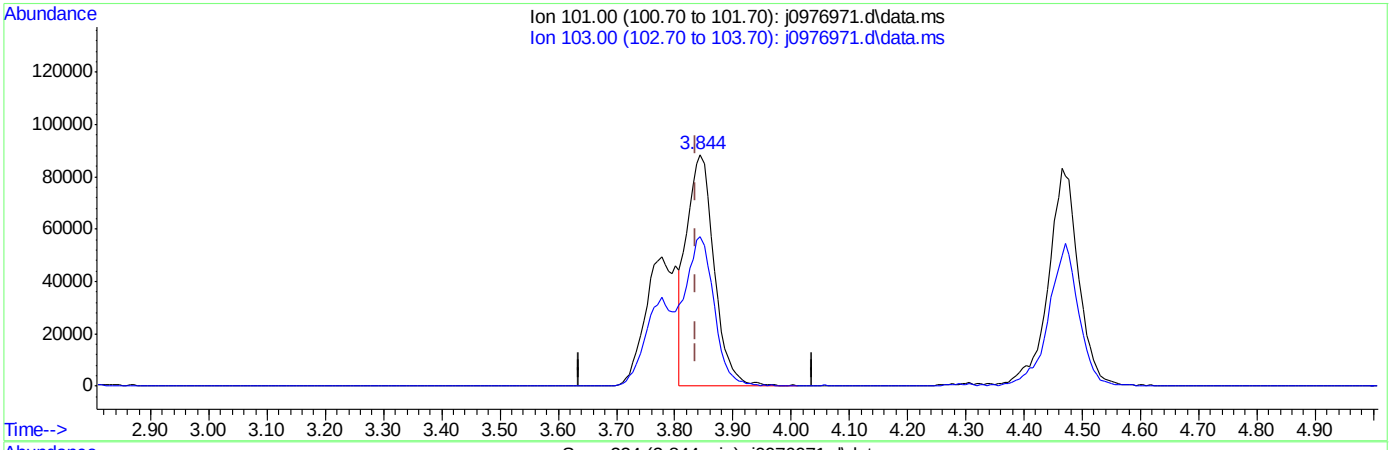
Sample Number:	VJ5325-CC5312	**Method:**	SW846 8260B
Lab FileID:	J0976971.D	**Analyst approved:**	06/06/16 11:57 Stuti Patel
Injection Time:	06/02/16 09:44	**Supervisor approved:**	06/06/16 15:07 Juan Garcia

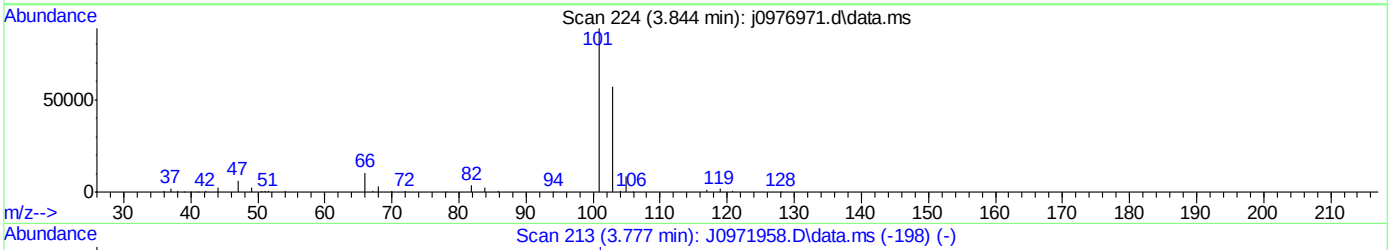
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

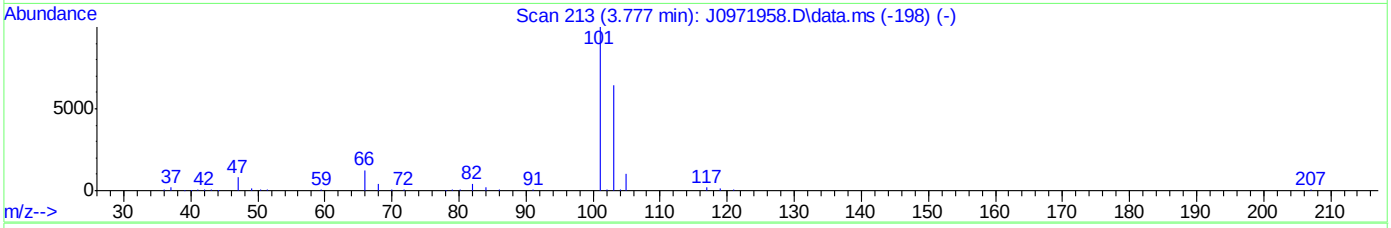
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976971.d
Acq On : 2 Jun 2016 9:44 am
Operator : darshnap
Sample : cc5312-5
Misc : MS34048,VJ5325,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 07:47:37 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976971.d\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.007) 20.21ug/L

response 289124

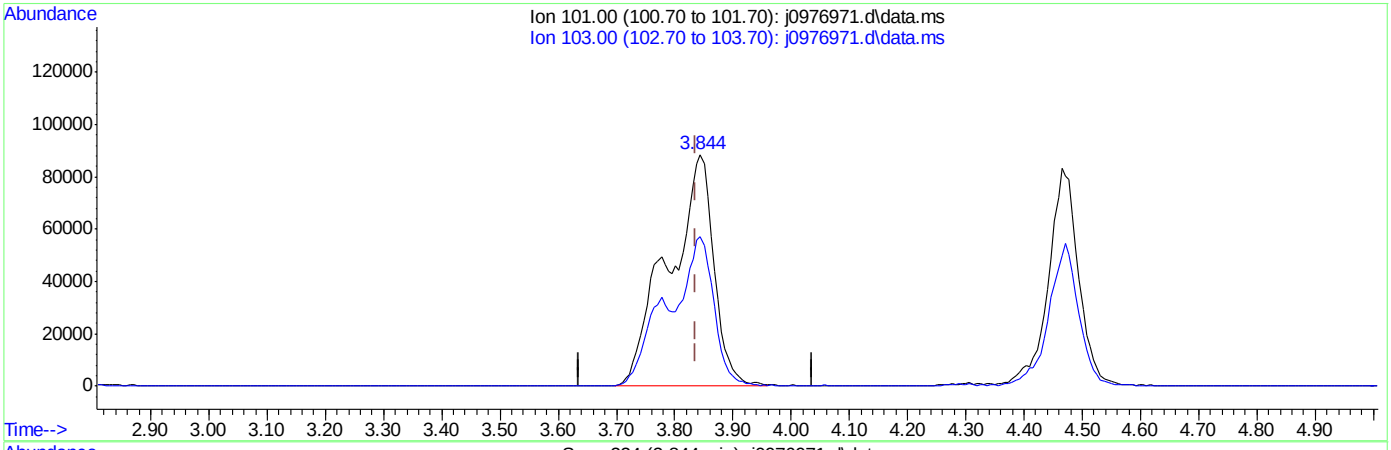
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.43
0.00	0.00	0.00
0.00	0.00	0.00

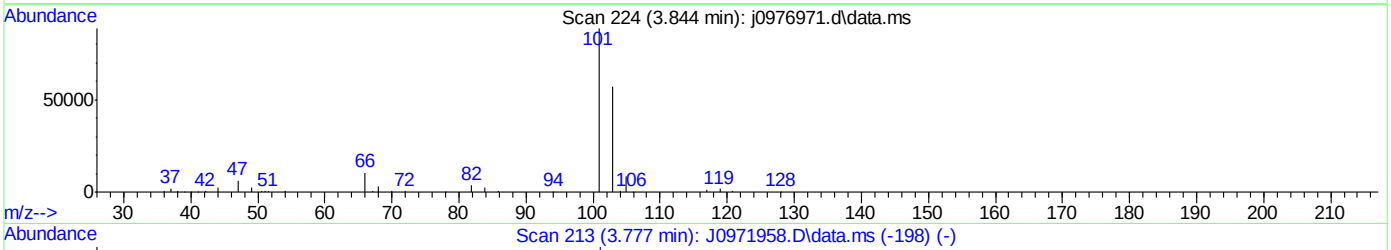
SGS ACCUTEST FA34367

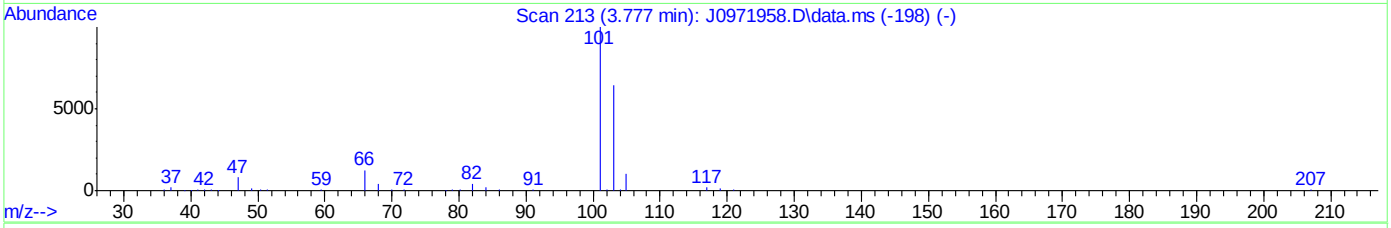
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976971.d
Acq On : 2 Jun 2016 9:44 am
Operator : darshnap
Sample : cc5312-5
Misc : MS34048,VJ5325,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 07:47:37 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976971.d\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.007) 33.30ug/L m

response 476353

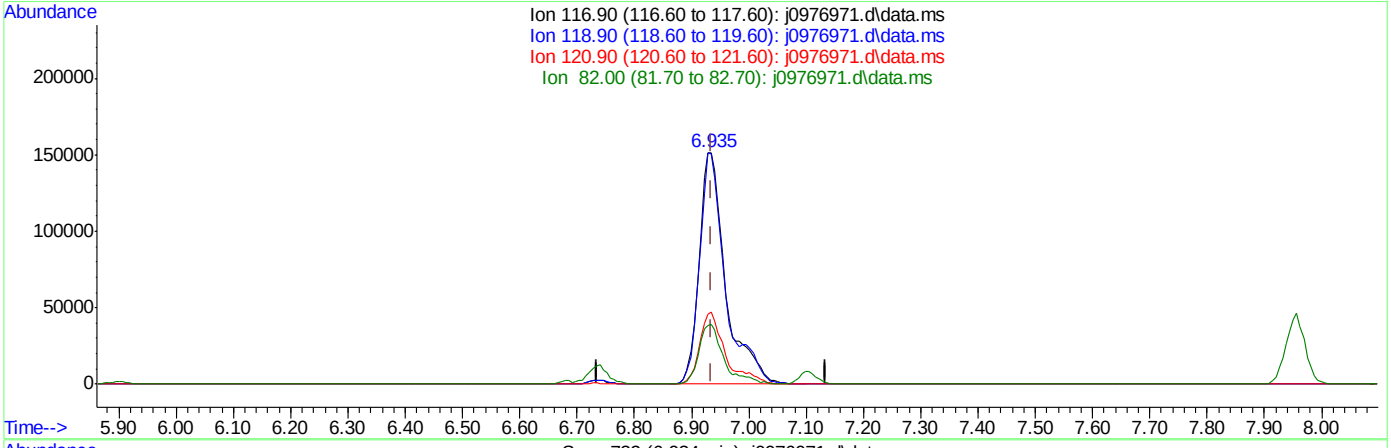
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.74
0.00	0.00	0.00
0.00	0.00	0.00

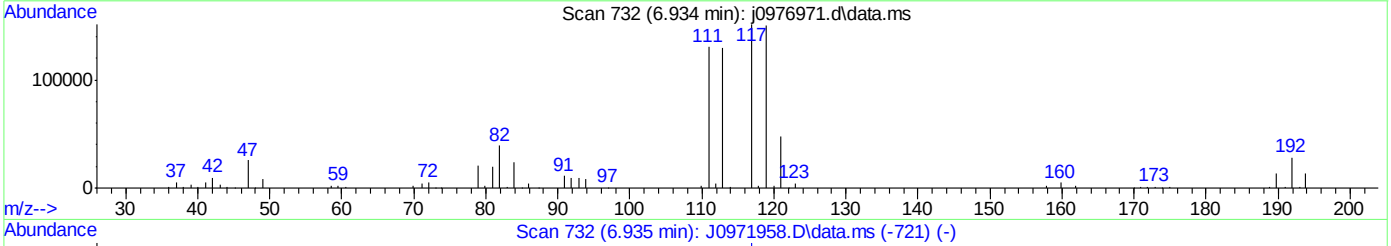
SGS ACCUTEST FA34367

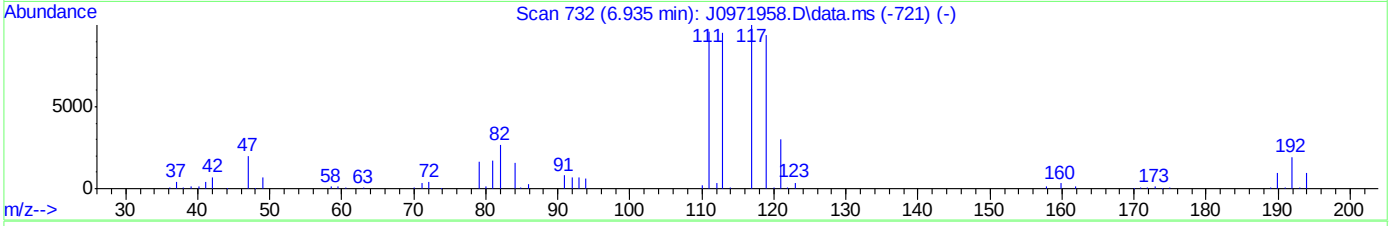
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976971.d
Acq On : 2 Jun 2016 9:44 am
Operator : darshnap
Sample : cc5312-5
Misc : MS34048,VJ5325,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 07:47:37 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976971.d\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.000) 40.60ug/L

response 489556

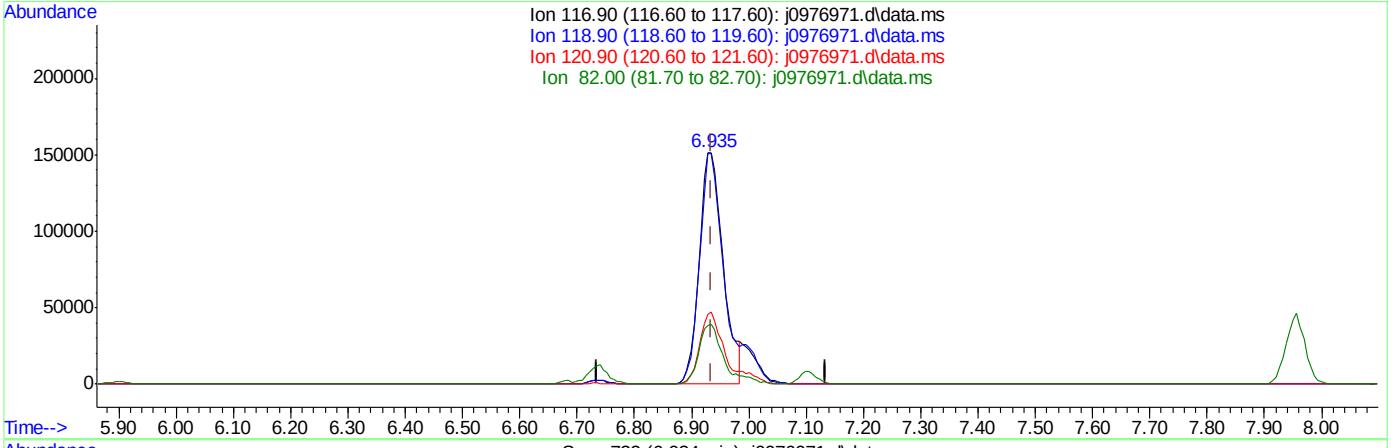
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	99.54
120.90	31.80	31.31
82.00	25.40	25.97

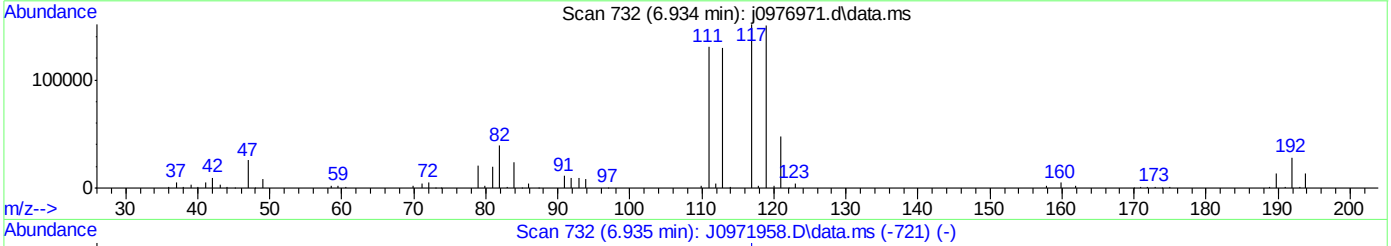
SGS ACCUTEST FA34367

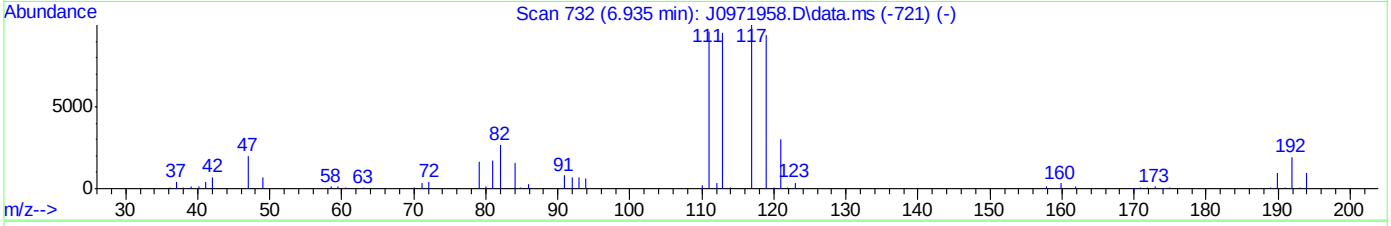
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976971.d
Acq On : 2 Jun 2016 9:44 am
Operator : darshnap
Sample : cc5312-5
Misc : MS34048,VJ5325,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 06 07:47:37 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976971.d\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.000) 36.47ug/L m

response 439718

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	99.54
120.90	31.80	31.31
82.00	25.40	25.97

SGS ACCUTEST FA34367

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/06/16 15:07

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976996.d
Acq On : 2 Jun 2016 7:25 pm
Operator : darshnap
Sample : ecc5312-5
Misc : MS34057,VJ5325,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 10:42:59 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1320699	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1019945	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	581468	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	86084	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	327210	48.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.88%			
46) 1,2-Dichloroethane-d4	7.476	65	366249	48.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.18%			
57) Toluene-d8	9.301	98	1308180	50.72	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.44%			
79) 4-Bromofluorobenzene	12.051	95	524835	48.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	304037	35.13	ug/L	95
3) Chloromethane	2.901	50	350601	36.21	ug/L	100
4) Vinyl Chloride	3.047	62	341756	35.05	ug/L	99
5) 1,3-Butadiene	3.041	54	201915	49.82	ug/L	97
6) Bromomethane	3.467	94	185922	32.97	ug/L	98
7) Chloroethane	3.625	64	144784	33.73	ug/L	94
8) Trichlorofluoromethane	3.844	101	447055m	34.09	ug/L	
9) Ethyl Ether	4.124	59	202452	34.92	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.361	67	319477	35.31	ug/L	99
11) 1,1-Dichloroethene	4.398	61	408117	36.11	ug/L	96
12) Freon 113	4.471	101	271867	34.43	ug/L	97
13) Carbon Disulfide	4.477	76	924643	35.35	ug/L	99
14) Iodomethane	4.586	142	446679	34.81	ug/L	100
15) Allyl chloride	4.927	41	352318	36.34	ug/L	98
16) Methylene Chloride	5.049	49	342910	34.48	ug/L	96
17) Acetone	5.067	58	75533	167.61	ug/L	88
18) Methyl acetate	5.195	74	150834	191.90	ug/L #	92
19) trans-1,2-Dichloroethene	5.231	61	362791	35.78	ug/L	96
20) Hexane	5.304	56	240468	35.59	ug/L	94
21) Methyl Tert Butyl Ether	5.334	73	712985	36.16	ug/L	92
22) Acetonitrile	5.590	40	101311	342.50	ug/L	96
23) Di-isopropyl ether	5.718	45	801350	36.30	ug/L	99
24) Chloroprene	5.876	53	423953	39.46	ug/L	97
25) 1,1-Dichloroethane	5.900	63	479634	35.57	ug/L	96
26) Acrylonitrile	5.925	53	319294	170.94	ug/L	97
27) ETBE	6.119	59	837355	37.16	ug/L	98
28) Vinyl acetate	6.107	43	2093489	182.39	ug/L	100
29) cis-1,2-Dichloroethene	6.472	96	315487	36.18	ug/L	98
30) 2,2-Dichloropropane	6.606	77	388879	34.99	ug/L	100
31) Bromochloromethane	6.685	128	144935	37.09	ug/L	94
32) Cyclohexane	6.734	56	472106	37.61	ug/L	97
33) Chloroform	6.740	83	513206	35.17	ug/L	97
34) Ethyl acetate	6.807	43	748386	181.38	ug/L	100

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976996.d
Acq On : 2 Jun 2016 7:25 pm
Operator : darshnap
Sample : ecc5312-5
Misc : MS34057,VJ5325,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 10:42:59 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	41965	34.40 ug/L	97
37) Carbon Tetrachloride	6.934	117	406467m	36.77 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	468486	35.84 ug/L	95
39) 2-Butanone	7.026	43	313058	174.02 ug/L	100
40) 1,1-Dichloropropene	7.105	75	374487	37.06 ug/L	96
41) tert-Butyl Formate	7.190	59	1728756	328.69 ug/L	99
42) Propionitrile	7.330	54	229209	343.25 ug/L	81
43) Methacrylonitrile	7.360	41	956250	355.16 ug/L	96
44) Benzene	7.360	78	1149713	36.24 ug/L	95
45) TAME	7.433	73	752443	36.59 ug/L	98
47) 1,2-Dichloroethane	7.549	62	343392	35.63 ug/L	98
48) Trichloroethene	7.938	95	292276	35.88 ug/L	98
49) Methylcyclohexane	7.957	83	517899	37.06 ug/L	98
50) Dibromomethane	8.358	93	155253	36.74 ug/L	97
51) 1,2-Dichloropropane	8.449	63	274826	35.12 ug/L	97
52) Bromodichloromethane	8.498	83	352983	35.15 ug/L	97
53) Methyl methacrylate	8.595	41	136806	35.41 ug/L	98
54) 2-Chloroethyl vinyl ether	9.009	63	745690	193.59 ug/L	95
55) cis-1,3-Dichloropropene	9.112	75	421732	37.38 ug/L	97
58) Toluene	9.350	91	1208612	37.93 ug/L	99
59) 2-Nitropropane	9.556	41	205048	195.49 ug/L	96
60) 4-Methyl-2-pentanone	9.672	43	789682	199.18 ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	355179	39.23 ug/L	99
62) Tetrachloroethene	9.757	166	300276	36.74 ug/L	98
63) Ethyl methacrylate	9.836	69	280619	38.67 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	192706	38.06 ug/L	97
65) Dibromochloromethane	10.098	129	257442	38.96 ug/L	98
66) 1,3-Dichloropropane	10.183	76	393865	38.37 ug/L	98
67) 1,2-Dibromoethane	10.360	107	216009	38.08 ug/L	97
68) 2-hexanone	10.487	43	551576	191.71 ug/L	98
69) 1-Chlorohexane	10.798	91	386728	37.20 ug/L	91
70) Ethylbenzene	10.858	91	1405180	37.95 ug/L	100
71) Chlorobenzene	10.864	112	817391	37.64 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.913	131	273757	37.59 ug/L	98
73) m,p-Xylene	10.998	91	2128950	76.71 ug/L	97
74) o-Xylene	11.436	91	1116608	40.92 ug/L	99
75) Styrene	11.485	104	880218	38.06 ug/L	100
76) Bromoform	11.546	173	162400	37.34 ug/L	99
77) Isopropylbenzene	11.740	105	1343120	41.88 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	32427	19.33 ug/L	90
81) n-Propylbenzene	12.160	91	1621905	39.48 ug/L	98
82) Bromobenzene	12.185	156	362736	37.12 ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.221	83	280670	37.63 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	1230232	40.79 ug/L	98
85) 2-Chlorotoluene	12.349	91	1124005	37.58 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	33654	21.29 ug/L #	54
87) 1,2,3-Trichloropropane	12.379	110	73547	38.47 ug/L	98
88) Cyclohexanone	12.446	55	27462	132.38 ug/L	86
89) 4-Chlorotoluene	12.513	91	1053917	39.17 ug/L	99
90) a-Methyl Styrene	12.604	118	671600	38.85 ug/L	99

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976996.d
Acq On : 2 Jun 2016 7:25 pm
Operator : darshnap
Sample : ecc5312-5
Misc : MS34057,VJ5325,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 10:42:59 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	680251	39.05	ug/L	99
92) 1,2,4-Trimethylbenzene	12.750	105	1217822	40.35	ug/L	99
93) Pentachloroethane	12.738	167	231704	39.40	ug/L	98
94) sec-Butylbenzene	12.866	105	1480332	40.74	ug/L	98
95) 4-Isopropyltoluene	13.000	119	1252877	39.51	ug/L	100
96) 1,3-Dichlorobenzene	13.134	146	645053	38.20	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	661737	37.64	ug/L	97
98) n-Butylbenzene	13.432	92	703472	40.71	ug/L	98
99) Benzyl Chloride	13.444	126	96505	36.60	ug/L #	58
100) 1,2-Dichlorobenzene	13.645	146	595419	37.79	ug/L	96
101) 1,2-Dibromo-3-Chloropr...	14.381	75	37730	36.56	ug/L	86
102) Hexachlorobutadiene	14.928	225	266354	37.60	ug/L	97
103) 1,2,4-Trichlorobenzene	14.971	180	405532	38.70	ug/L	97
104) Naphthalene	15.257	128	601220	38.07	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	343533	37.84	ug/L	98
107) Ethanol	4.276	45	30569	633.30	ug/L	84
108) acrolein	4.757	56	170273	234.94	ug/L	92
109) Tert Butyl Alcohol	5.383	59	158522	363.88	ug/L	96
110) tert Amyl alcohol	7.573	59	120932	380.77	ug/L	97
111) Isobutyl alcohol	7.452	42	107040	762.22	ug/L	98
112) 1,4-Dioxane	8.668	88	35517	714.45	ug/L	91
113) 3,3-Dimethyl-1-butanol	10.433	57	643700	1681.62	ug/L	97

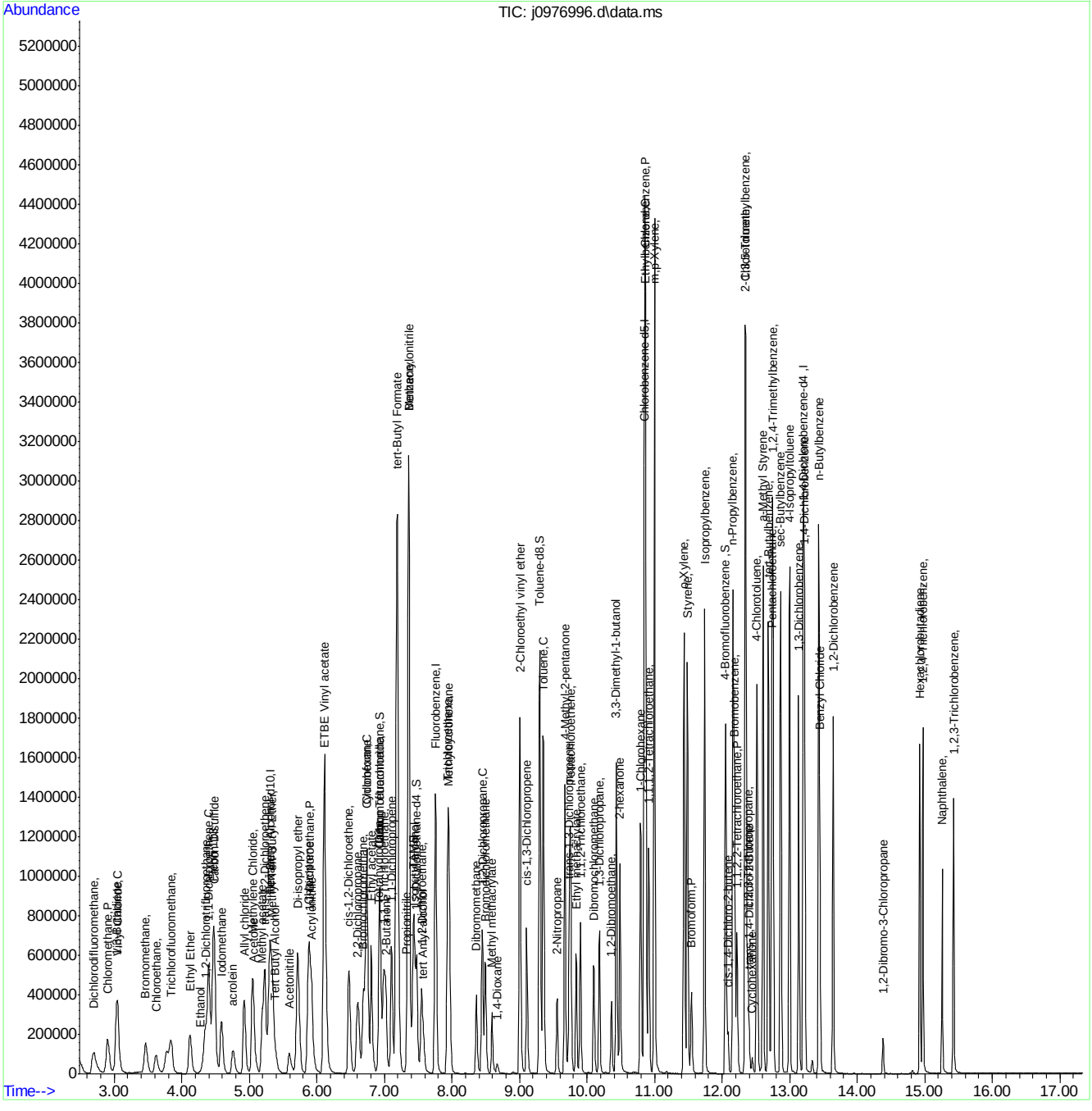
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34367

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976996.d
Acq On : 2 Jun 2016 7:25 pm
Operator : darshnap
Sample : ecc5312-5
Misc : MS34057,VJ5325,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 10:42:59 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration



SGS ACCUTEST FA34367

Manual Integration Approval Summary

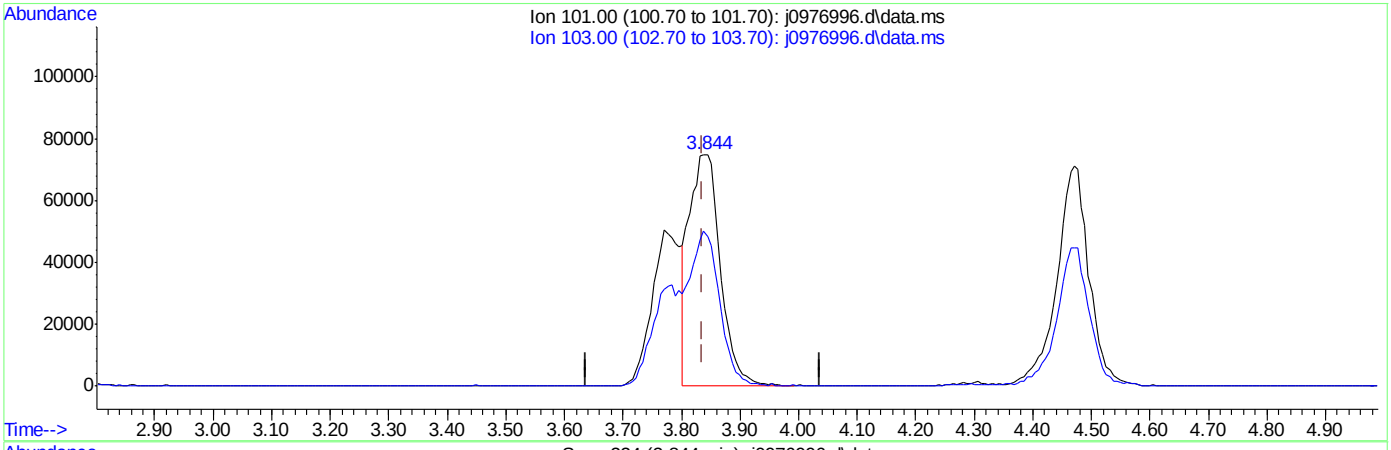
Sample Number:	VJ5325-ECC5312	**Method:**	SW846 8260B
Lab FileID:	J0976996.D	**Analyst approved:**	06/06/16 11:57 Stuti Patel
Injection Time:	06/02/16 19:25	**Supervisor approved:**	06/06/16 15:07 Juan Garcia

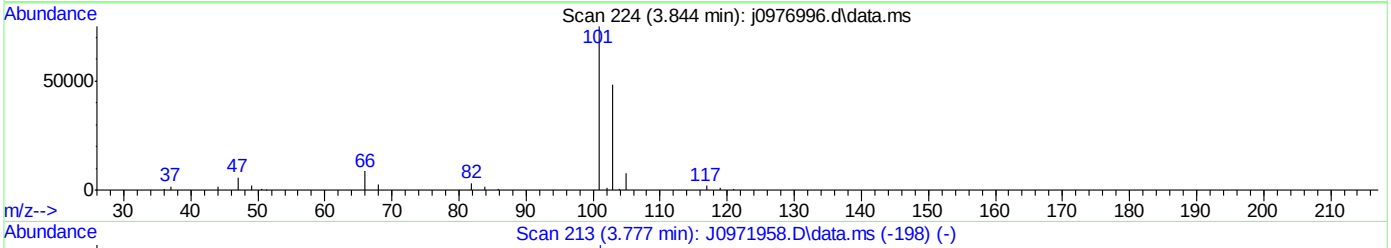
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

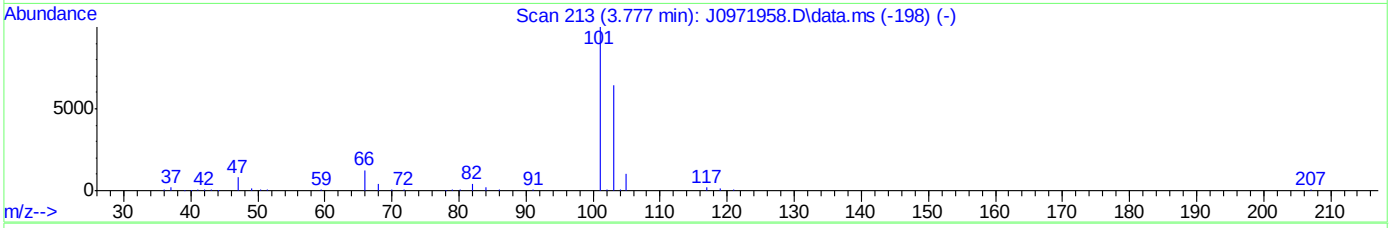
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976996.d
Acq On : 2 Jun 2016 7:25 pm
Operator : darshnap
Sample : ecc5312-5
Misc : MS34057,VJ5325,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 07:48:25 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976996.d\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.007) 21.05ug/L

response 276055

Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.01
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976996.d
Acq On : 2 Jun 2016 7:25 pm
Operator : darshnap
Sample : ecc5312-5
Misc : MS34057,VJ5325,,,,,
ALS Vial : 21 Sample Multiplier: 1

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Quant Title : SW-846 Method 5030B/8260B & EPA 624
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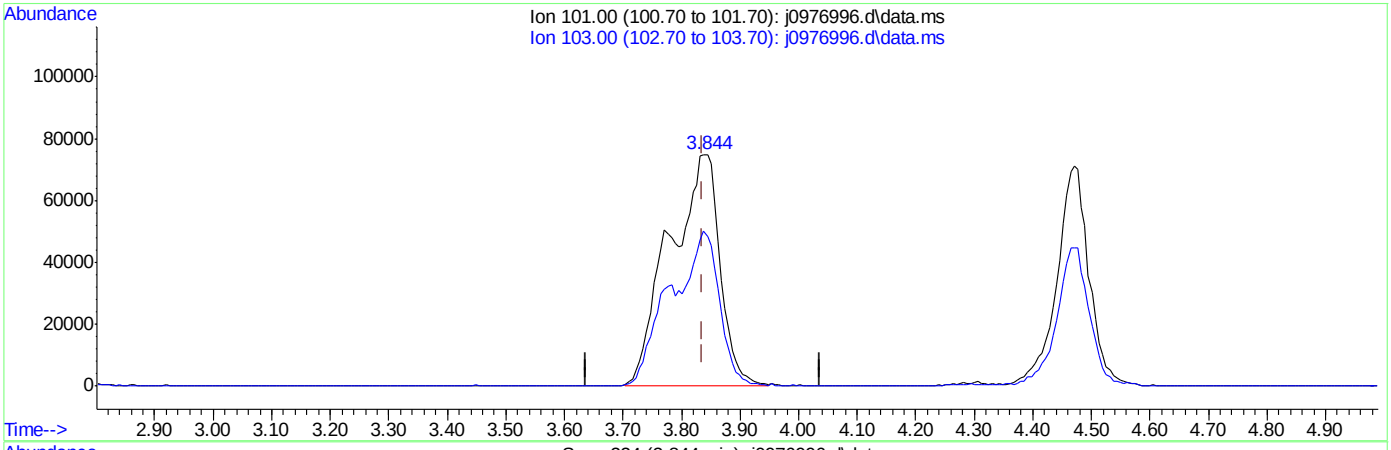

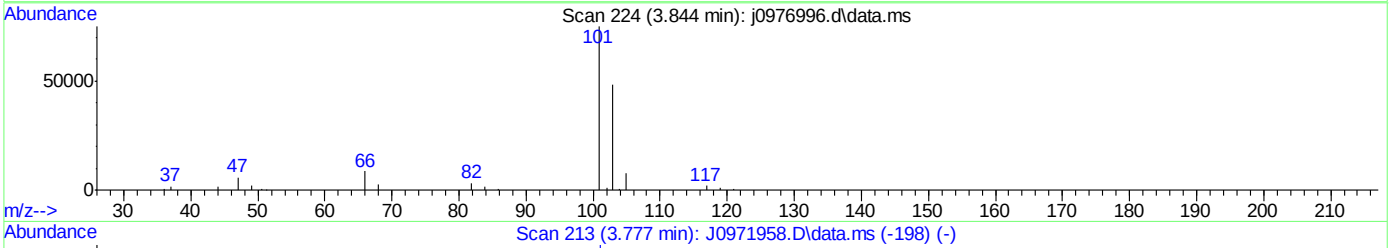

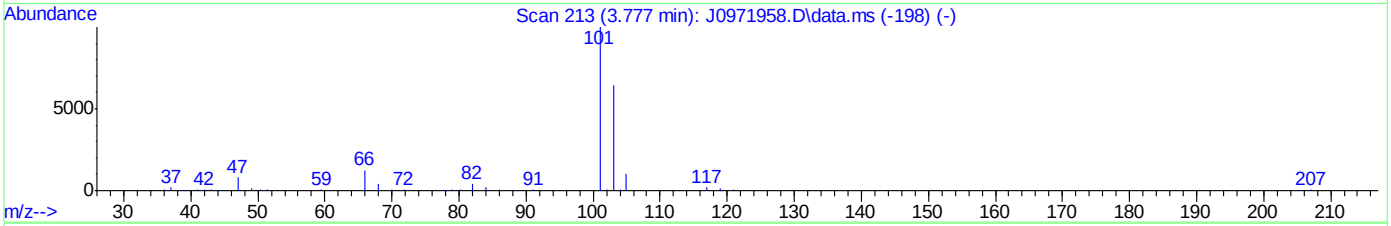

TIC: j0976996.d\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.007) 34.09ug/L m

response 447055

Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.48
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34367

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976996.d
Acq On : 2 Jun 2016 7:25 pm
Operator : darshnap
Sample : ecc5312-5
Misc : MS34057,VJ5325,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 07:48:25 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
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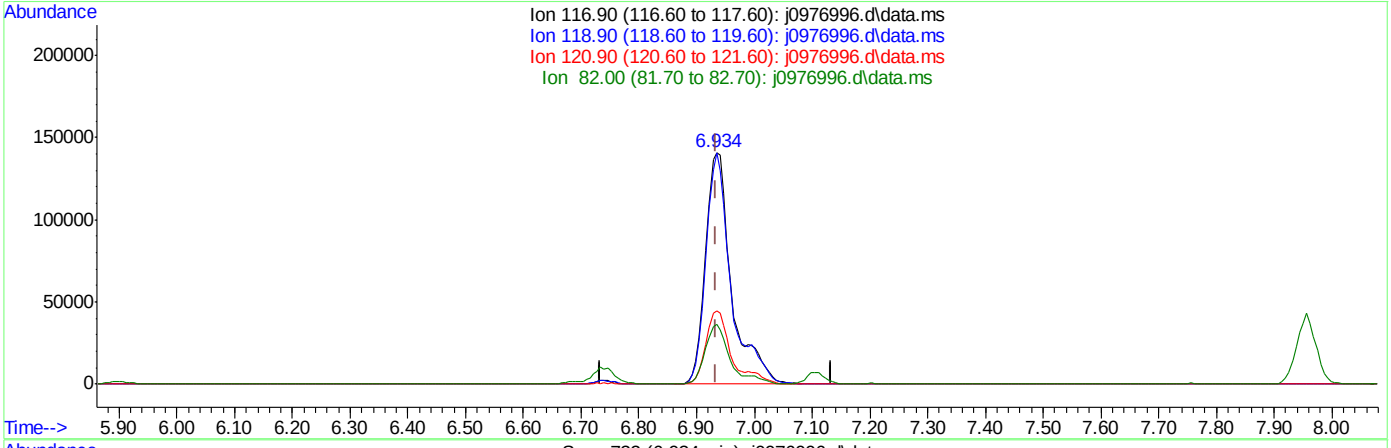
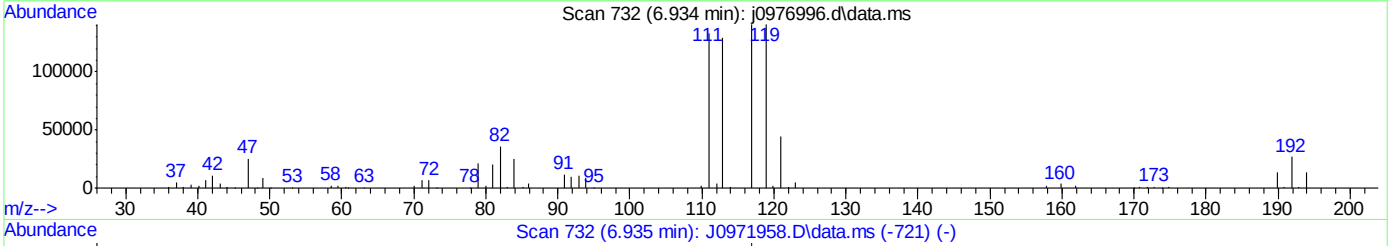
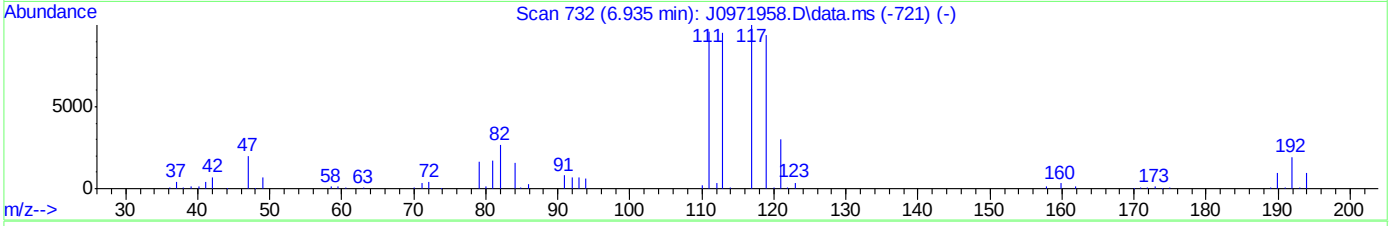
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976996.d\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 40.34ug/L

response 445833

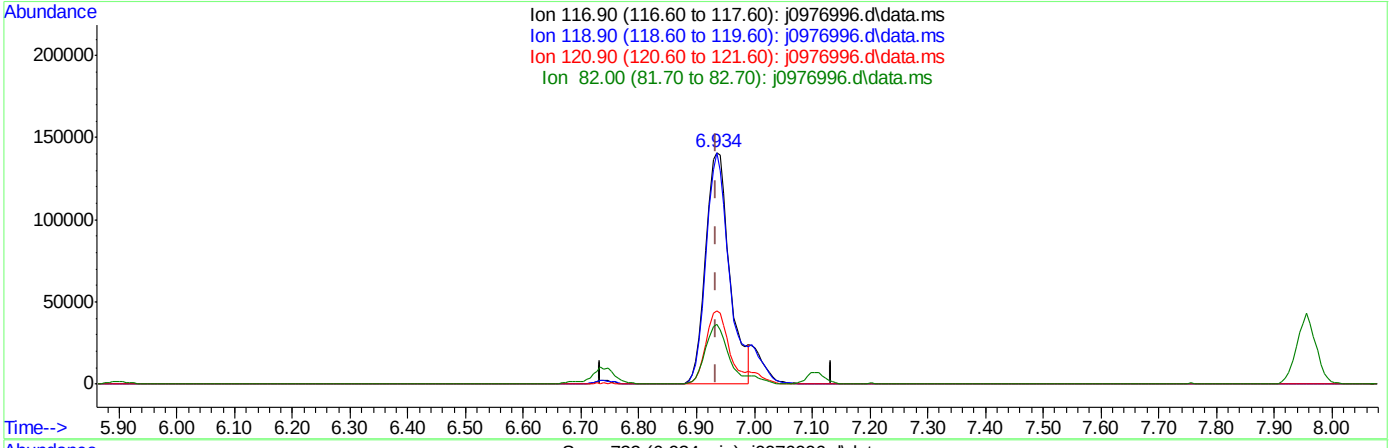
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	100.14
120.90	31.80	31.84
82.00	25.40	25.69

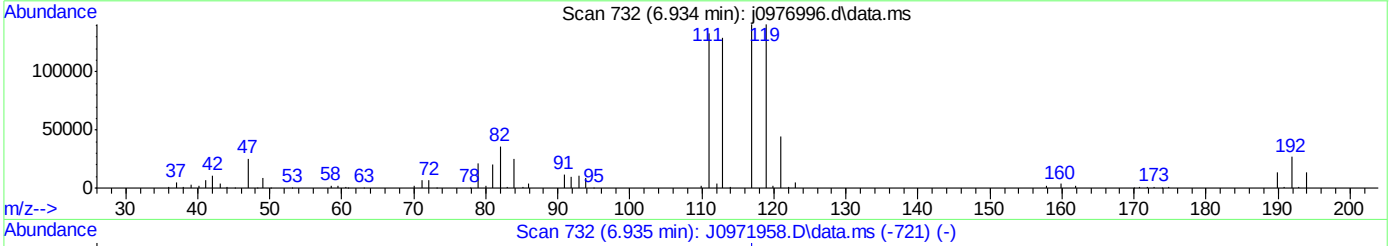
SGS ACCUTEST FA34367

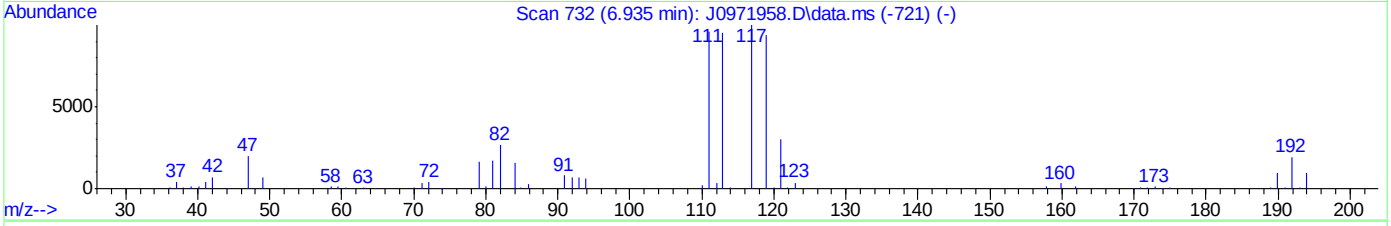
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\160602\
Data File : j0976996.d
Acq On : 2 Jun 2016 7:25 pm
Operator : darshnap
Sample : ecc5312-5
Misc : MS34057,VJ5325,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 06 07:48:25 2016
Quant Method : C:\msdchem\1\methods\MSJ052316a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jun 03 16:08:45 2016
Response via : Initial Calibration







TIC: j0976996.d\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 36.77ug/L m

response 406467

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	100.14
120.90	31.80	31.84
82.00	25.40	25.69

SGS ACCUTEST FA34367

ACCUTEST LABORATORIES SE

DATE:	5-23-16
COLUMN TYPE:	RTx VM5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA5-C
PURGE PRESSURE:	20
ANALYST:	

MS VOA5-C ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	052316AAA-C
CALIB. DATE:	05-23-16
EM VOLTAGE:	1741
BFB RESPONSE:	2660132
RUN ID:	VC 4602

STANDARDS

BFB:	.BFB: V20120
ICAL/CCV:	.ICAL/CCV: V20197,V20159,V20151, .V20147,V20145,V20143
ISTD/SURR:	.ISTD/SURR: V20161
ICV/QC:	.ICV/QC: V20198,V20160,V20152, .V20148,V20146,V20144
STD B = 250 ppm = 75 ug/ml	
METHANOL LOT #:	157246

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
		5-23-16									STD A = 250 ppm = 1 ml/ml/ml
	c0115807	~~0450~~ BFB		—	—	—	—	5	—	—	All Passed
	c 08	IC4602-1		—	—	—	—	6	— 104 mP	—	0.1 ml / 5 ml STD A
	c 09	IC4602-2		—	—	—	—	7	—	—	0.2 ml
	c 10	IC4602-3		—	—	—	—	8	— 104 SP	—	0.4 ml
	c 11	IC4602-4		—	—	—	—	9	— 104 SP	—	1 ml
	c 12	IC4602-5		—	—	—	—	10	—	—	2 ml
	c 13	IC4602-6		—	—	—	—	11	— 109 PT	—	3 ml
	c 14	IC4602-7		—	—	—	—	12	— 104, 109 PT	—	4 ml
	c 15	BLANK		—	—	—	—	13	—	—	Bad 5-23-16
	c 16	ICV4602-4		—	—	—	—	14	—	RR	1 ml STD A / 5 ml USCBS as ICV
	c 17	ICV4602-4, B5		—	—	—	—	15	— 34 PT	—	1 ml STD B / 5 ml
	c 18	MB		—	—	—	100	16	—	RR	Acetone
3906	c 19	FA34022-5		B2611	5	7.46	—	17	PT	—	RR for CONT. or C.O.
3962	c 20	FA34062-1		B2708	5	5.33	—	18	PT	—	
	c 21	FA34066-1		B2756	5	4.93	—	19	PT	—	
	c 22	-2		B2759	5	5.55	—	20	PT	RR	SS49, ISTD 3 ↓
	c 23	-3		B2762	5	6.38	—	21	PT	—	
	c 24	-4		B2765	5	6.10	—	22	PT	—	
	c 25	-5		B2768	5	5.98	—	23	PT	—	
	c 26	-6		B2771	5	5.47	—	24	PT	—	
	c 27	-7		B2774	5	5.41	—	25	PT	—	
	c 28	-8		B2777	5	5.72	—	26	PT	—	
	c 29	-9		B2780	5	5.72	—	27	PT	—	
	c 30	-10		B2783	5	4.04	—	28	PT	—	
	c 31	MB		—	—	—	—	29	—	—	
3908	c 32	FA34022-5ms		—	5	4.02	—	30	—	—	1 ml STD B added
	c 33	-5msd		—	5	4.17	—	31	— 104 SP	—	1 " " "

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: _____

msvoa5_c_log.xls NF 07/11

SGS ACCUTEST FA34367

ACCUTEST LABORATORIES SE

DATE:	5-23-16
COLUMN TYPE:	RTX VM 5
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA5-C
PURGE PRESSURE:	20
ANALYST:	S

MS VOA5-C ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	052316AMS-C
CALIB. DATE:	5-23-16
EM VOLTAGE:	1741
BFB RESPONSE:	2660132
RUN ID:	VC 4603

STANDARDS

BFB:	BFB: V20120
ICAL/CCV:	ICAL/CCV: V20197,V20159,V20151, V20147,V20145,V20143
ISTD/SURR:	ISTD/SURR: V20161
ICV/QC:	ICV/QC: V20198,V20160,V20152, V20148,V20146,V20144
METHANOL LOT #:	157266

A

B

STD A = 2ID Amt = 40 Added

STD B = 2ID Amt = 75 Added

DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
C0115 634	ECC4602-4	—	—	—	—	32	—		—	Int STD/Qc
C 35	Cond M	—	—	—	—	1	—		—	See VC4604
C 36		—	—	—	—	2	—		—	
C 37		—	—	—	—	3	—		—	
C 38		—	—	—	—	4	—		—	
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S 5-24-16

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: S

msvoa5_c_log.xls NF 07/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2593	FA34019-11	W	31.16	38.26	7.10	5/18/16	10:02	AD	PT	In
94	-11	M	29.84	36.43	6.59	↓	10:03	↓	↓	↓
95	FA34022-1	W	31.03	37.35	6.32	05/18/16	10:31	DKM	PT	IN
96	-1	W	30.95	36.96	6.01					
97	-1	M	29.65	36.05	6.40					
98	-1	M	29.52	36.28	6.76					
99	-2	W	30.93	37.31	6.38					
B26 00	-2	W	31.06	38.32	7.26					
01	-2	M	29.62	36.78	7.16					
02	-2	M	29.66	36.39	6.73					
03	-3	W	30.86	37.57	6.71					
04	-3	W	30.80	36.85	6.05					
05	-3	M	29.79	35.92	6.13					
06	-3	M	29.70	35.67	5.97					
07	-4	W	31.10	39.22	8.11					
08	-4	W	31.11	38.85	7.74					
09	-4	M	29.82	37.62	7.80					
10	-4	M	29.81	38.16	8.35					
11	-5	W	30.87	38.33	7.46					
12	-5	W	30.69	37.59	6.90					
13	-5	M	29.42	37.19	7.77					
14	DKM 05/18/16 -5	M	29.84	37.08	7.24		↓			
B26 15	FA34018-~~25~~6	W	30.90	31.32	0.42	↓	11:02	↓	↓	↓ TB

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Instrument Run Log VC4602 page 3 of 6

SGS ACCUTEST FA34367

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7.7.1 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2708	FA34062-1	W	30.76	36.09	5.33	05/19/16	10:19	DEM	PT	IN
09	-1	W	30.90	37.43	6.53		↓			
10	-1	M	29.82	35.22	5.40		10:22			
11	FA34074-1	W (NaHSO4)	30.99	34.31	3.32		10:57			
12	-1	W ↓	31.08	34.48	3.40					
13	-1	M	29.96	33.19	3.23					
14	-2	W (NaHSO4)	31.12	34.83	3.71					
15	-2	W ↓	31.26	34.77	3.51					
16	-2	M	29.89	33.68	3.79					
17	-3	W (NaHSO4)	31.09	34.76	3.67					
18	-3	W ↓	31.13	34.71	3.58		↓			
19	-3	M	29.68	33.43	3.75		11:04			
20	FA34073-1	W (NaHSO4)	31.30	35.03	3.73		11:05			
21	-1	W ↓	31.16	34.84	3.68					
22	-1	M	29.71	33.25	3.54					
23	-2	W (NaHSO4)	31.18	34.94	3.76					
24	-2	W ↓	30.94	34.72	3.78					
25	-2	M	29.78	33.41	3.63					
26	-3	W (NaHSO4)	31.05	34.84	3.79					
27	-3	W ↓	31.17	34.89	3.72		↓			
28	-3	M	29.89	33.81	3.92		11:12			
29	FA34071-11	W(NaHSO4)	31.01	35.35	4.34		11:15			
B2730	-11	W ↓	31.23	35.06	3.83	↓	11:16	↓	↓	↓

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Instrument Run Log VC4602 page 4 of 6

SGS ACCUTEST FA34367

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7.7.1 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2754	FA34071-21	W (NaHSO4)	31.37	31.39	0.02	05/19/16	11:37	DKM	PT	IN
55	-21	M	29.81	29.31	-0.50		11:39			
56	FA34066-1	W	30.84	35.77	4.93		11:44			
57	-1	W	31.03	36.53	5.50					
58	-1	M	29.97	33.82	3.85					
59	-2	W	30.89	36.44	5.55					
60	-2	W	30.88	36.44	5.56					
61	-2	M	29.81	35.46	5.65					
62	-3	W	30.80	37.18	6.38					
63	-3	W	30.83	37.15	6.32					
64	-3	M	29.88	35.57	5.69					
65	-4	W	30.88	36.98	6.10					
66	-4	W	30.97	37.10	6.13					
67	-4	M	29.89	35.94	6.05					
68	-5	W	30.68	36.36	5.68					
69	-5	W	30.80	37.46	6.66					
70	-5	M	29.60	34.16	4.56					
71	-6	W	31.06	36.53	5.47					
72	-6	W	30.08	37.13	7.05					
73	-6	M	29.67	34.76	5.09					
74	-7	W	30.79	36.20	5.41					
75	-7	W	30.06	37.03	6.97					
B2776	-7	M	29.72	35.22	5.50		12:01			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Instrument Run Log VC4602 page 5 of 6

SGS ACCUTEST FA34367

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7.7.1 7

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B2777	FA34066-8	W	30.53	36.25	5.72	05/19/16	12:03	DKM	PT	IN
78	-8	W	30.88	35.66	4.78					
79	-8	M	29.88	34.73	4.85					
80	-9	W	30.90	36.62	5.72					
81	-9	W	30.83	35.74	4.91					
82	-9	M	29.71	35.55	5.84					
83	-10	W	30.53	34.57	4.04					
84	-10	W	31.09	36.60	5.51					
85	-10	M	29.97	35.32	5.35					
86	-11	W	30.76	35.37	4.61					
87	-11	W	30.75	36.76	6.01					
88	-11	M	29.56	35.44	5.88					
89	-12	W	30.55	35.76	5.21					
90	-12	W	30.74	36.48	5.74					
91	-12	M	29.75	35.69	5.94					
92	-13	W	31.17	36.28	5.11					
93	-13	W	31.12	36.83	5.71					
94	-13	M	29.88	34.95	5.07					
95	-14	W	31.10	36.04	4.94					
96	-14	W	30.97	36.29	5.32					
97	-14	M	29.73	35.72	5.99					
98	-15	W	30.77	36.30	5.53					not on COC
B2799	-15	W	31.01	37.18	6.17		12:31			

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

SGS ACCUTEST FA34367

4/8/16

ACCUTEST LABORATORIES SE

DATE:	6-1-16
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA5-C
PURGE PRESSURE:	20
ANALYST:	

MS VOA5-C ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	052316APP9-C
CALIB. DATE:	05-23-16
EM VOLTAGE:	1764
BFB RESPONSE:	22/6239
RUN ID:	VC 4610

STANDARDS

BFB:	.BFB: V20253
ICAL/CCV:	.ICAL/CCV: V20267,V20235,V20241, .V20250,V20257,V20259
ISTD/SURR:	.ISTD/SURR: V20269
ICV/QC:	.ICV/QC: V20268,V20236,V20242, .V20251,V20258,V20260
METHANOL LOT #:	157266

A

B

STD B=250 ppm = 75 ug/ml/2ml

DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
										STD A=250 ppm=60 ug/ml/2ml
c 0116023	BFB	—	—	—	—	5	—		—	AIC Pass
c 24	CC 460234	—	—	—	—	6	—		MA	Int STD A/5ml
c 25	BS	—	—	—	—	7	—		MA	Int STD B/5ml
c 26	CC 4602-4A	—	—	—	—	8	—	104SP		Int STD A/5ml
c 27	BS	—	—	—	—	9	—		—	Int STD B/5ml
c 28	MB	—	—	—	100	10	—		—	
c 29	FA34367-2 MA	B3656	5	5.31	—	11	EN	F.S 8260C	—	
c 30	-3 MA	B3659	5	5.16	—	12	EN		—	
c 31	-3MS MA	—	5	4.86	—	13	—	104SP	—	Int STD Bad
c 32	-3MSD MA	—	5	4.60	—	14	—	104SP	—	" " "
c 33	ECC4602-4	—	—	—	—	15	—		—	Int STD A/5ml
c 34	Cont Run	—	—	—	—	1	—		—	See VC4611
c 35		—	—	—	—	2	—		—	
c 36		—	—	—	—	3	—		—	
c 37		—	—	—	—	4	—		—	
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4645

6-2-16

* For NELAC purposes, Method 8260 includes analytes by SOP MS005

Analyst's Signature:

Matrix: Designate "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

msvoa5_c_log.xls NF 07/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B36652	FA34357-8	W	30.89	30.91	0.02	5/31/16	1357	CG	PT	IN, VR blanks
53	-8	W	30.86	30.88	0.02					
54	-9	W	30.76	30.78	0.02					
55	-9	W	30.85	30.87	0.02		1400			
56	FA34367-2	W (AC2481)	NA	NA	5.31	06-01-16	1049	EJP	EN	IN F.S
57	-2	W			5.55					
58	-2	M (AC2480)			5.38					
59	-3	W			5.16		1052			
60	-3	W			5.49					
61	-3	M			5.75		1053			
62	FA34370-1	W	30.83	35.52	4.69		10:58	DCM	PT	IN
63	-1	W	30.71	37.74	7.03					
64	-1	M	29.67	36.87	7.20					
65	-3	W	31.03	30.99	-0.04					TB
66	-3	W	30.88	30.84	-0.04					
67	-3	M	29.68	29.64	-0.04					
68	FA34368-1	W	31.16	36.86	5.70		11:06			
69	-1	W	31.27	37.65	6.38					
70	-1	M	29.89	35.57	5.68					
71	-2	W	30.84	34.92	4.08					
72	-2	W	30.83	35.15	4.32					
73	-2	M	29.89	35.23	5.34					
B36674	-3	W	30.98	30.96	-0.02		11:12			TB

Container Type: **PT** for pre-tared vials (field kits): **EN** for Encore or similar type: **5030A** for samples collected in jars or bulk containers: **SL** for core sleeve

Comment: **N/O** for no odor: **S/O** for slight odor: **OOH** for Out of Hold

Encore Comment: **C** for sampler incorrectly capped: **P** for plunger not locked: **F** for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Instrument Run Log VC4610 page 2 of 2

SGS ACCUTEST FA34367

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7.7.2 7

ACCUTEST LABORATORIES SE

DATE:	05-24-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3psi
ANALYST:	DP

1-12 pH
lot 200814
0-3 pH
lot 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSS05241 6.M
CALIB. DATE:	05-24-16
EM VOLTAGE:	1553 V
BFB RESPONSE:	2176165
RUN ID:	VJ 5312

STANDARDS V20243 V20229 V20208 V20200

BFB:	V20220 V20245 V20244 V20246 V20260
ICAL/CCV:	V20222 V20229 V20200 V20208 V20173 V20141 V20240 V20156
ISTD/SURR:	V20220
ICV/QC:	V20225 V20230 V20232 V20231
Purge Volumes	V20182 V20176 V20218 V20237 V20248 V20247 V

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976749	BLK	N/A	Water	1	8260		N/A	N/A		✓
J 50	BFB			1						Auto Passed
J 51	CC5295-5			1		gases ↑				20ul→50ul fail↑
J 52	BFB			1						Auto Passed
J 53	ICS312-1			1		SP(8) OP(37)				0.5ul→5ul
J 54	-2			2		SP(8) OP(37) PII(107)				2.5ul→5ul
J 55	-3			3		SP(8) OP(37)				5ul→5ul
J 56	-4			4		SP(8) OP(37) PII(107)				12.5ul→5ul
J 57	-5			5		SP(8) OP(37)				20ul→5ul
J 58	-6			6		SP(8) OP(37)				35ul→5ul
J 59	-7			7						50ul→5ul
J 60	BLK			8						✓
J 61	ICV5295-5			9		SP(8) OP(37) PII(107)				25ul→50ul ✓
J 62	BS			1		SP(8) OP(37) PII(107)				12.5ul→40ml ✓
J 63	MB			2						✓
J 64	FA33915-3	2		3			1	N		✓
J 65	-5	2		4			4			✓
J 66	FA33953-4	1		5			1			NO
J 67	-5	1		6			1			NO
J 68	-6	1		7			1			NO
J 69	-7	1		8			1			✓
J 70	FA33968-4	1		9			1			NO
J 71	-5	1		10			1			✓
J 72	-6	1		11			1			✓
J 73	-8	2		12		SP(2)	1			✓
J 74	-9	2		13			1			✓
J 75	FA33997-1	1		14			1			✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_l_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	05-24-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3 psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS052416A.m
CALIB. DATE:	05-24-16
EM VOLTAGE:	1552V
BFB RESPONSE:	2176165
RUN ID:	VJ 5312

STANDARDS

BFB:	V20220
ICAL/CCV:	V20243 V20229 V20208 V20200 V20245 V20244 V20246 V2024
ISTD/SURR:	V20220
ICV/QC:	V20225 V20230 V20232 V20231
Purge Volume 5.0mL	V20182 V20176 V20218 V20237

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 76	FA33997-2	2	420	15	8260		1	D		✓
J 77	-3	2	↓	16	↓		1	↓		✓
J 78	-3MS	3	↓	17	↓	SP(8) OP(37)	1	↓		12.5mL/240mL ✓
J 79	-3MSD	3	↓	17	↓	SP(8) OP(37) PII(107)	1	↓		↓ ✓
J 80	ECCS312-5	—	↓	18	↓	SP(8) OP(37) PII(107)	→	→		20mL/250mL ✓
J										
J										
J										
J										
J										
J										
J										
J										
J										
J										
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J										

05-24-16 DP

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	06-01-16
COLUMN TYPE:	RTx-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3psi
ANALYST:	DP

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260 06-01-16 DP
METHOD FILE:	MSJ05231.M
CALIB. DATE:	05-24-16
EM VOLTAGE:	1553V
BFB RESPONSE:	223/425
RUN ID:	VJ5323 ~~VJ5322~~ / 5324 DP 06-01-16

STANDARDS

BFB:	(good)
ICAL/CCV:	V20271 V20264 V20256 V20275
	V20245 V20255 V20244 V20240 V20246
ISTD/SURR:	
ICV/QC:	V20273 V20230 V20232 V20247 (8260)
Purge Volume	5ml V20231 V20182 V20218 V20237 V2027

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976939	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J 40	BFB			1						Auto Passed
J 41	CCS312-5A			1		VC↓ SP(8) OP(37) PII(107)				20ml→5ml
J 42	CCS312-5			1		SP(8) OP(37) PII(107)				↓
J 43	BS			1		SP(8) OP(37) PII(107)				12.5ml→40ml
J 44	MB			2						ND
J 45	BS	↓		3		SP(8) OP(37) PII(107)	↓	↓		12.5ml→40ml
J 46	FA34367-1 MA	1		1			1	N		✓
J 47	DP 06-01-16 -3.4 mA	1		2			1		10X	TBA↑
J 48	-5 mA	1		3			1			ND
J 49	-6 mA	1		4			1			ND
J 50	FA34303-9, 500x	3		5		0.1ml→50ml	1		2000X	
J 51	-10, 20x	2		6		2.5ml→50ml	1			✓
J 52	-12, 100x	2		7		0.5ml→50ml	1			✓
J 53	-14, 500x	2		8		0.1ml→50ml	1			✓
J 54	FA34341-1	2		9			1			✓
J 55	-2	2		10		High slit	4			✓
J 56	-3	2		11			1			ND
J 57	FA34346-1	2		12			1			✓
J 58	-2	2		13			1			ND
J 59	FA34350-15	2		14			1			ND
J 60	-16	2		15			1			ND
J 61	-17	2		16			1			ND
J 62	-18	2		17			1			ND
J 63	FA34367-1MS MA DP 06-01-16	2		18		SP(8) OP(37) PII(107)	1			12.5ml→40ml ✓
J 64	-1MSD MA	2		18		DP 06-02-16 SP(8) OP(37) PII(107)	1			✓
J 65	FA34350-15MS	3		19		SP(8) OP(37) PII(107)	1			✓
J 66	-15MSD	3		19		SP(8) OP(37) PII(107)	1			✓
J 67	ECCS312-5	→	↓	20	↓	SP(8) OP(37) PII(107)	—	—		20ml→50ml ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	06-01-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3psi
ANALYST:	DP

1-12 pH
LOT 200814
0-3 pH
LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260 06-01-16 DP
METHOD FILE:	MSJ05231.M
CALIB. DATE:	05-24-16
EM VOLTAGE:	1553V
BFB RESPONSE:	2237425
RUN ID:	VJ5323 ~~VJ5323~~ / 5324 DP 06-01-16

STANDARDS

BFB:	(9000)
ICAL/CCV:	V20271 V20264 V20256 V20275 V20245 V20255 V20244 V20240 V20246
ISTD/SURR:	
ICV/QC:	V20273 V20230 V20232 V20247
Purge Volume	5ml V20231 V20182 V20218 V20237 (8260) V2027

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976939	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J 40	BFB			1						Auto Passed
J 41	CC5312-5A			1		VC↓ SP(8) OP(37) PII(107)				20ul→50ml
J 42	CC5312-5			1		SP(8) OP(37) PII(107)				↓
J 43	BS			1		SP(8) OP(37) PII(107)				12.5ul→40ml
J 44	MB			2						ND
J 45	DS	↓		3		SP(8) OP(37) PII(107)	↓	↓		12.5ul→40ml
J 46	FA34367-1 MA	1		1			1	N		✓
J 47	DP 06-01-16 -3.4 mA	1		2			1		10X	TBA↑
J 48	-5 mA	1		3			1			ND
J 49	-6 mA	1		4			1			ND
J 50	FA34303-9, 500x	3		5		0.1ml→50ml	1		2000X	
J 51	-10, 20x	2		6		2.5ul→50ml	1			✓
J 52	-12, 100x	2		7		0.5ul→50ml	1			✓
J 53	-14, 500x	2		8		0.1ml→50ml	1			✓
J 54	FA34341-1	2		9			1			✓
J 55	-2	2		10		High slit	4			✓
J 56	-3	2		11			1			ND
J 57	FA34346-1	2		12			1			✓
J 58	-2	2		13			1			ND
J 59	FA34350-15	2		14			1			ND
J 60	-16	2		15			1			ND
J 61	-17	2		16			1			ND
J 62	-18	2		17			1			ND
J 63	FA34367 -1MS mA 06-01-16 DP	2		18		SP(8) OP(37) PII(107)	1			12.5ul→40ml ✓
J 64	-1MSD mA	2		18		DP 06-02-16 SP(8) OP(37) PII(107)	1			✓
J 65	FA34350 -15 ms	3		19		SP(8) OP(37) PII(107)	1			✓
J 66	-15msD	3		19		SP(8) OP(37) PII(107)	1			✓
J 67	CCC5312-5	—		20		SP(8) OP(37) PII(107)	—	—		20ul→50ml ✓

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

msvoa6_j_log.xls NF 06/10

Analyst's Signature: DP

ACCUTEST LABORATORIES SE

DATE:	06-02-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3 psi
ANALYST:	DP / STU/JP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ052316A.m
CALIB. DATE:	05-24-16
EM VOLTAGE:	1553V
BFB RESPONSE:	2338474
RUN ID:	VJ5325 / 5326

STANDARDS

BFB:	VJ20274
ICAL/CCV:	V20275 V20264 V20244 V20256 V20245 V20255 V20246 V20248
ISTD/SURR:	VJ20274 DP 06-02-16
ICV/QC:	V20273 V20277 V208182 V20231
Purge Volume 5ml	V20232 V20247 V20237 V20218

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976968	BLK	N/A	H_2O	1	8260		N/A	N/A		✓
J 69	BFB			1						Auto Passed
J 70	CCS312-SA			1		response ↑ SP:8 OP:37				20ul->50ml
J 71	CCS312-S			1		SP:8 OP:37				↓
J 72	BS			1		SP:8 OP:37				12.5ul->40ml
J 73	MB	↓		2			↓	↓		✓
J 74	FA34367-4MA,10x	2		1		5ml->50ml	1	ND		✓
J 75	FA34395-1 MA	1		2			1			✓
J 76	-3 MA	1		3			1			✓
J 77	-4 MA	1		4			1			ND
J 78	-5 MA	1		5			1			ND
J 79	FA34252-1	1		6			1			✓
J 80	-2	1		7			1			✓
J 81	-3	2		8			1			✓
J 82	-4	2		9			1			ND
J 83	-5	2		10			1			✓
J 84	-6	2		11			1			✓
J 85	FA34375-1	1		12			1		20x	TCE ↑
J 86	-2	1		13			1		20x	TCE ↑
J 87	-3	1		14			1			✓
J 88	FA34303-7	2		15			1			✓
J 89	FA34323-3, AFA	3		16			1			-
J 90	FA34303-12, 100x	3		17			1			0.5ml:50ml
J 91	-9, 5000x	7		18			1			10ul-50ml
J 92	FA34395-1MS mA	2		19		SP:8 OP:37	1			12.5ul-40ml
J 93	-1MSD mA	2		19		SP:8 OP:37	1			
J 94	FA34252-3 MS	3		20		SP:8 OP:37	1	↓		↓
95	-3MSD	3		20		SP:8 OP:37	1			

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: PJ / DP

96 Ecc5312-5 — ↓ 21 ↓ msvoa6_j_log.xls NF 06/10 - - 20ul-50ml

ACCUTEST LABORATORIES SE

DATE:	06-02-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.3 psi
ANALYST:	DP / STU / JP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ052316A.m
CALIB. DATE:	05-24-16
EM VOLTAGE:	1553 V
BFB RESPONSE:	2338474
RUN ID:	VJ5325 / 5326

STANDARDS

BFB:	VJ20274
ICAL/CCV:	V20275 V20264 V20244
	V20256 V20245 V20255 V20246 V20264
ISTD/SURR:	VJ20274 DP 06-02-16
ICV/QC:	V20273 V20277 V20282 V20231
Purge Volume 5ml	V20232 V20247 V20237 V20218

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976968	BLK	N/A	H_2O	1	8260		N/A	N/A		✓
J 69	BFB			1						Auto Passed
J 70	CCS312-5A			1		response ↑ SP:8 OP:37				20ul→50ml
J 71	CCS312-5			1		SP:8 OP:37				↓
J 72	BS			1		SP:8 OP:37				12.5ul→40ml
J 73	MB	↓		2			↓	↓		✓
J 74	FA34367-4MA,10x	2		1		5ml→50ml-1	1	N		✓
J 75	FA34395-1 MA	1		2			1			✓
J 76	-3 MA	1		3			1			✓
J 77	-4 MA	1		4			1			ND
J 78	-5 MA	1		5			1			ND
J 79	FA34252-1	1		6			1			✓
J 80	-2	1		7			1			✓
J 81	-3	2		8			1			✓
J 82	-4	2		9			1			ND
J 83	-5	2		10			1			✓
J 84	-6	2		11			1			✓
J 85	FA34375-1	1		12			1		20x	TCE ↑
J 86	-2	1		13			1		20x	TCE ↑
J 87	-3	1		14			1			✓
J 88	FA34303-7	2		15			1			✓
J 89	FA34323-3, AFA	3		16			1			-
J 90	FA34303-12, 100x	3		17			1			0.5ml:50ml
J 91	-9, 5000x	7		18			1			10ul-50ml
J 92	FA34395-1MS mA	2		19		SP:8 OP:37	1			12.5ul-40ml
J 93	-1MSD mA	2		19		SP:8 OP:37	1			
J 94	FA34252-3 MS	3		20		SP:8 OP:37	1			↓
95	-3MSD	3		20		SP:8 OP:37	1			
96	Ecc5312-5	—	↓	21	↓		—	—		20ul-50ml

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP / JP

msvoa6_j_log.xls NF 06/10

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA34367
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: FA34367-2 **Analyzed:** 01-JUN-16 by ZC **Method:** SM19 2540G
ClientID: SB-101 (6.5-7.5)

Wet Weight (Total)	18.46	g
Tare Weight	2.5	g
Dry Weight (Total)	15.31	g
Solids, Percent	80.3	%

Sample: FA34367-3 **Analyzed:** 01-JUN-16 by ZC **Method:** SM19 2540G
ClientID: SB-101 (8-9)

Wet Weight (Total)	18.78	g
Tare Weight	2.47	g
Dry Weight (Total)	15.68	g
Solids, Percent	81	%