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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: FA33763

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

Report to:

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Total number of pages in report: 218

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Norm Farmer
Technical Director

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Sample Summary

Anderson, Mulholland & Associates

Job No: FA33763

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA33763-1	05/05/16	15:30	RTL	05/07/16	AQ	Equipment Blank	BPEB-14
FA33763-2	05/05/16	14:00	RTL	05/07/16	AQ	Ground Water	RA5-GWD
FA33763-3	04/11/16	06:30	RTL	05/07/16	AQ	Trip Blank Water	TB 050616

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job No:** FA33763

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 5/10/2016 11:53:07 AM

2 Sample(s), 1 Trip Blank(s) were collected on/ between 04/11/2016 and 05/05/2016 and were received at SGS Accutest Southeast (SASE) on 05/07/2016 properly preserved, at 3.2 Deg. C and intact. These Samples received an SASE job number of FA33763. 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:** VJ5290

All method blanks for this batch meet method specific criteria.

Sample(s) FA33763-2MS, FA33763-2MSD were used as the QC samples indicated.

The following samples were run outside of holding time for method SW846 8260C: FA33763-3. Sample received outside the holding time. The sample is a Trip Blank.

Blank Spike Recovery(s) for trans-1,2-Dichloroethylene are outside control limits. % Recovery was above the upper control limit, but samples were ND for trans-1,2-Dichloroethylene.

Matrix Spike Recovery(s) for Tert-Butyl Alcohol, trans-1,2-Dichloroethylene 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 Tert-Butyl Alcohol are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

FA33763-1 for trans-1,2-Dichloroethylene: Associated BS recovery outside control limits.

FA33763-2 for trans-1,2-Dichloroethylene: Associated BS recovery outside control limits.

FA33763-3 for trans-1,2-Dichloroethylene: Associated BS recovery outside control limits.

FA33763-3: Sample received outside the holding time. The sample is a Trip Blank.

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

Narrative prepared by:

_____ Date: May 10, 2016

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA33763-2MS	MSVOA	J0976366.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
FA33763-2MSD	MSVOA	J0976367.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975150.D	Methyl Bromide, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975151.D	Ethyl Alcohol, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975152.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975153.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975155.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975156.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-ICC5237	MSVOA	J0975154.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-ICV5237	MSVOA	J0975159.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5289-CC5237	MSVOA	J0976360.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5290-BS	MSVOA	J0976361.D	Carbon Tetrachloride, Trichlorofluoromethane

12 Manual Integrations were found for FA33763

Summary of Hits

Job Number: FA33763
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 04/11/16 thru 05/05/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA33763-1	**BPEB-14**					
No hits reported in this sample.						
FA33763-2	**RA5-GWD**					
Acetone		12.3 J	25	10	ug/l	SW846 8260C
Benzene		0.93 J	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		0.36 J	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		1.3	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		10.4 J	20	9.1	ug/l	SW846 8260C
Tetrahydrofuran		1.7 J	5.0	1.4	ug/l	SW846 8260C
FA33763-3	**TB 050616**					
No hits reported in this sample.						

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	BPEB-14		
Lab Sample ID:	FA33763-1	**Date Sampled:**	05/05/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/07/16
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	J0976363.D	1	05/09/16	DP	n/a	n/a	VJ5290
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 [a]	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-14		
Lab Sample ID:	FA33763-1	**Date Sampled:**	05/05/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/07/16
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	105%		83-118%
17060-07-0	1,2-Dichloroethane-D4	100%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

(a) Associated BS recovery outside control limits.

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

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

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Report of Analysis

Client Sample ID:	RA5-GWD		
Lab Sample ID:	FA33763-2	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/07/16
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	J0976364.D	1	05/09/16	DP	n/a	n/a	VJ5290
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	12.3	25	10	ug/l	J
71-43-2	Benzene	0.93	1.0	0.20	ug/l	J
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene [a]	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	0.36	1.0	0.33	ug/l	J

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

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

Report of Analysis

Client Sample ID:	RA5-GWD		
Lab Sample ID:	FA33763-2	**Date Sampled:**	05/05/16
Matrix:	AQ - Ground Water	**Date Received:**	05/07/16
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	1.3	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	10.4	20	9.1	ug/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	1.7	5.0	1.4	ug/l	J
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

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

(a) Associated BS recovery outside control limits.

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

SGS Accutest

Report of Analysis

Client Sample ID:	TB 050616		
Lab Sample ID:	FA33763-3	**Date Sampled:**	04/11/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J0976365.D	1	05/09/16	DP	n/a	n/a	VJ5290
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 [b]	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	

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

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

Report of Analysis

Client Sample ID:	TB 050616		
Lab Sample ID:	FA33763-3	**Date Sampled:**	04/11/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/07/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Sample received outside the holding time.
(b) Associated BS recovery outside control limits.

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

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

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

FA33763 PAGE 1 OF 1

809960569510

Bottle Order Control #: Get from NJ

SGS Accutest Quote #:

SGS Accutest Job #:

Client / Reporting Information

Company Name: Anderson Mulholland Ass. 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	BPEB-14		5/5/16	1530	TT	EB	3	3								X	
2	RA5-GWD		5/6/16	1400	TT	GW	3	3								X	
3	TB 050616		4/11/16	0630		TB	2	2								X	

Turnaround Time (Business days)

- [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

Approved By (SGS Accutest PM): / Date:

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

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

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

Comments / Special Instructions

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

Sample inventory is verified upon receipt in the Laboratory

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	5/6/16 1500	1 Fed EX	2 FX		2 [signature] 945 5/7/16
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 # 458	Intact / Not intact	Preserved where applicable / On Ice: X / Cooler Temp. 3-2

FA33763: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA33763 CLIENT: Anderson Mulholland PROJECT: BMS

DATE/TIME RECEIVED: 5/7/16 945 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

METHOD OF DELIVERY: [FEDEX] UPS ACCUTEST COURIER DELIVERY OTHER:

AIRBILL NUMBERS: 8099 6056 9570

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.0
- [ ] OBSERVED TEMPS: 3.2
- [ ] CORRECTED TEMPS: 3.2 (USED FOR LIMS)

SAMPLE INFORMATION

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

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

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

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 5/7/16 REVIEWER SIGNATURE/DATE 5/7/16

NF 11/15 RECEIPTLOG040416.xls

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FA33763: Chain of Custody
Page 2 of 3

FedEx Express International Air Waybill

Origin Copy

1 From

Date 05 06 16 Sender's FedEx Account Number

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

Company Anderson Mulholland Assoc. Inc.

Address BMS in care of

Address Rd #3, Km 77.5

City Humacao State/Province PR

Country USA ZIP/Postal Code 00791

2 To

Recipient's Name Sample Recieving Phone 407-425-6200

Company SGS Accutest Florida

Address 4405 Vineland Rd.

Dept./Floor

Address

City Orlando State/Province FL

Country USA ZIP/Postal Code 32811

Recipient's Tax ID Number for Customs Purposes
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 (Shipment Piece and Count/SLAC): 1 Total Weight 14 ☒ kg ☐ DIM 14, 10, 12 ☒ cm ☐

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Groundwater 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: NCV

Total Value for Customs (Specify Currency): $0 NCV

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

FedEx Acct. No. 1147-5950-3. Total Transportation

Credit Card Exp. Date

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. Specify Currency

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 this 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:

FedEx Tracking Number 8099 6056 9510 0402

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
MIDC	XOTIXH	TINT	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 ____ COD/COD Amt. ____ Credit Card Auth. ____

FedEx Emp. # 373771 Audit Emp. # ____ Date 5-6-16 Time ____ Dept. # ____ Date ____ Time ____

1651

Non-Negotiable International Air Waybill - (7-1994-2000) FedEx

568

PART 158410 Rev. Date 11/08 ©1994-2008 FedEx PRINTED IN U.S.A. RRDA

Form ID No. RRDA 12/15

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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: FA33763
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5290-MB	J0976362.D	1	05/09/16	DP	n/a	n/a	VJ5290

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

FA33763-1, FA33763-2, FA33763-3

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: FA33763
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5290-MB	J0976362.D	1	05/09/16	DP	n/a	n/a	VJ5290

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

FA33763-1, FA33763-2, FA33763-3

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	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	101%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

Blank Spike Summary

Job Number: FA33763
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5290-BS	J0976361.D	1	05/09/16	DP	n/a	n/a	VJ5290

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

FA33763-1, FA33763-2, FA33763-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	124	99	50-147
71-43-2	Benzene	25	28.5	114	81-122
100-44-7	Benzyl Chloride	25	26.8	107	54-122
74-97-5	Bromochloromethane	25	25.3	101	76-123
75-27-4	Bromodichloromethane	25	27.7	111	79-123
75-25-2	Bromoform	25	27.0	108	66-123
78-93-3	2-Butanone (MEK)	125	119	95	56-143
75-15-0	Carbon Disulfide	25	32.3	129	66-148
56-23-5	Carbon Tetrachloride	25	31.9	128	76-136
108-90-7	Chlorobenzene	25	28.0	112	82-124
75-00-3	Chloroethane	25	24.9	100	62-144
67-66-3	Chloroform	25	26.5	106	80-124
110-82-7	Cyclohexane	25	29.2	117	73-138
124-48-1	Dibromochloromethane	25	26.5	106	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	20.9	84	64-123
106-93-4	1,2-Dibromoethane	25	24.9	100	75-120
75-71-8	Dichlorodifluoromethane	25	23.2	93	42-167
95-50-1	1,2-Dichlorobenzene	25	25.3	101	82-124
541-73-1	1,3-Dichlorobenzene	25	27.4	110	84-125
106-46-7	1,4-Dichlorobenzene	25	26.1	104	78-120
75-34-3	1,1-Dichloroethane	25	29.7	119	81-122
107-06-2	1,2-Dichloroethane	25	25.8	103	75-125
75-35-4	1,1-Dichloroethylene	25	32.5	130	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.5	102	78-120
156-60-5	trans-1,2-Dichloroethylene	25	32.0	128*	76-127
78-87-5	1,2-Dichloropropane	25	25.8	103	76-124
10061-01-5	cis-1,3-Dichloropropene	25	27.0	108	75-118
10061-02-6	trans-1,3-Dichloropropene	25	27.9	112	80-120
100-41-4	Ethylbenzene	25	28.8	115	81-121
76-13-1	Freon 113	25	29.0	116	72-134
591-78-6	2-Hexanone	125	123	98	61-129
98-82-8	Isopropylbenzene	25	30.3	121	83-132
99-87-6	p-Isopropyltoluene	25	30.4	122	79-130
79-20-9	Methyl Acetate	125	120	96	65-126
74-83-9	Methyl Bromide	25	22.1	88	59-143
74-87-3	Methyl Chloride	25	27.1	108	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA33763
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5290-BS	J0976361.D	1	05/09/16	DP	n/a	n/a	VJ5290

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

FA33763-1, FA33763-2, FA33763-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	31.0	124	76-129
75-09-2	Methylene Chloride	25	28.2	113	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	121	97	66-122
1634-04-4	Methyl Tert Butyl Ether	25	25.8	103	72-117
100-42-5	Styrene	25	26.9	108	78-119
75-85-4	Tert-Amyl Alcohol	250	260	104	65-124
75-65-0	Tert-Butyl Alcohol	250	244	98	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	26.3	105	72-120
127-18-4	Tetrachloroethylene	25	25.7	103	76-135
109-99-9	Tetrahydrofuran	25	23.9	96	56-122
108-88-3	Toluene	25	27.1	108	80-120
87-61-6	1,2,3-Trichlorobenzene	25	22.8	91	68-131
120-82-1	1,2,4-Trichlorobenzene	25	23.4	94	73-129
71-55-6	1,1,1-Trichloroethane	25	27.6	110	75-130
79-00-5	1,1,2-Trichloroethane	25	25.4	102	76-119
79-01-6	Trichloroethylene	25	28.4	114	81-126
75-69-4	Trichlorofluoromethane	25	29.3	117	71-156
95-63-6	1,2,4-Trimethylbenzene	25	29.0	116	79-120
75-01-4	Vinyl Chloride	25	27.2	109	69-159
	m,p-Xylene	50	55.1	110	79-126
95-47-6	o-Xylene	25	28.0	112	80-127

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	98%	85-112%
460-00-4	4-Bromofluorobenzene	101%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33763
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33763-2MS	J0976366.D	1	05/09/16	DP	n/a	n/a	VJ5290
FA33763-2MSD	J0976367.D	1	05/09/16	DP	n/a	n/a	VJ5290
FA33763-2	J0976364.D	1	05/09/16	DP	n/a	n/a	VJ5290

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

FA33763-1, FA33763-2, FA33763-3

CAS No.	Compound	FA33763-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	12.3	J	125	122	88	125	126	91	3	50-147/21
71-43-2	Benzene	0.93	J	25	27.8	107	25	27.7	107	0	81-122/14
100-44-7	Benzyl Chloride	ND		25	23.4	94	25	23.1	92	1	54-122/18
74-97-5	Bromochloromethane	ND		25	24.7	99	25	24.8	99	0	76-123/14
75-27-4	Bromodichloromethane	ND		25	25.7	103	25	24.5	98	5	79-123/19
75-25-2	Bromoform	ND		25	20.2	81	25	20.3	81	0	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	113	90	125	123	98	8	56-143/18
75-15-0	Carbon Disulfide	ND		25	29.6	118	25	27.7	111	7	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	30.6	122	25	27.4	110	11	76-136/23
108-90-7	Chlorobenzene	ND		25	26.2	105	25	26.2	105	0	82-124/14
75-00-3	Chloroethane	ND		25	26.5	106	25	25.2	101	5	62-144/20
67-66-3	Chloroform	ND		25	26.2	105	25	26.0	104	1	80-124/15
110-82-7	Cyclohexane	ND		25	28.2	113	25	27.4	110	3	73-138/18
124-48-1	Dibromochloromethane	ND		25	23.0	92	25	21.6	86	6	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	20.9	84	25	19.3	77	8	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	23.4	94	25	22.9	92	2	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	21.4	86	25	20.3	81	5	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	23.8	95	25	24.0	96	1	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	25.7	103	25	26.0	104	1	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	24.5	98	25	24.8	99	1	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	29.1	116	25	28.7	115	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	24.4	98	25	24.4	98	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	31.3	125	25	31.4	126	0	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	25.8	103	25	25.9	104	0	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	32.2	129*	25	30.8	123	4	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	25.0	100	25	25.1	100	0	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	24.7	99	25	23.3	93	6	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	25.3	101	25	23.5	94	7	80-120/22
100-41-4	Ethylbenzene	ND		25	27.3	109	25	27.0	108	1	81-121/14
76-13-1	Freon 113	ND		25	27.5	110	25	26.0	104	6	72-134/20
591-78-6	2-Hexanone	ND		125	121	97	125	130	104	7	61-129/18
98-82-8	Isopropylbenzene	0.36	J	25	27.8	110	25	27.8	110	0	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	28.6	114	25	27.7	111	3	79-130/16
79-20-9	Methyl Acetate	ND		125	112	90	125	117	94	4	65-126/18
74-83-9	Methyl Bromide	ND		25	21.7	87	25	21.9	88	1	59-143/19
74-87-3	Methyl Chloride	ND		25	24.0	96	25	24.3	97	1	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33763
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33763-2MS	J0976366.D	1	05/09/16	DP	n/a	n/a	VJ5290
FA33763-2MSD	J0976367.D	1	05/09/16	DP	n/a	n/a	VJ5290
FA33763-2	J0976364.D	1	05/09/16	DP	n/a	n/a	VJ5290

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

FA33763-1, FA33763-2, FA33763-3

CAS No.	Compound	FA33763-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		25	29.1	116	25	27.8	111	5	76-129/17
75-09-2	Methylene Chloride	ND		25	26.8	107	25	26.7	107	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	116	93	125	125	100	7	66-122/16
1634-04-4	Methyl Tert Butyl Ether	1.3		25	25.9	98	25	26.7	102	3	72-117/14
100-42-5	Styrene	ND		25	22.8	91	25	23.0	92	1	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	252	101	250	269	108	7	65-124/23
75-65-0	Tert-Butyl Alcohol	10.4	J	250	344	133*	250	363	141*	5	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	23.5	94	25	25.2	101	7	72-120/14
127-18-4	Tetrachloroethylene	ND		25	23.7	95	25	23.2	93	2	76-135/16
109-99-9	Tetrahydrofuran	1.7	J	25	23.2	86	25	26.5	99	13	56-122/21
108-88-3	Toluene	ND		25	24.8	99	25	24.7	99	0	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	20.6	82	25	21.4	86	4	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	21.9	88	25	22.4	90	2	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	27.4	110	25	26.9	108	2	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	24.1	96	25	23.6	94	2	76-119/14
79-01-6	Trichloroethylene	ND		25	27.0	108	25	27.4	110	1	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	28.8	115	25	27.1	108	6	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	27.5	110	25	27.2	109	1	79-120/18
75-01-4	Vinyl Chloride	ND		25	25.8	103	25	25.1	100	3	69-159/18
	m,p-Xylene	ND		50	50.8	102	50	50.4	101	1	79-126/15
95-47-6	o-Xylene	ND		25	25.9	104	25	25.7	103	1	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA33763-2	Limits
1868-53-7	Dibromofluoromethane	103%	102%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	99%	100%	79-125%
2037-26-5	Toluene-D8	95%	95%	102%	85-112%
460-00-4	4-Bromofluorobenzene	97%	102%	104%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA33763
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

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

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

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

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

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

Instrument Performance Check (BFB)

Job Number: FA33763
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5289-BFB
Lab File ID: J0976359.D
Instrument ID: GCMSJ
Injection Date: 05/09/16
Injection Time: 08:35

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	47040	17.2		Pass
75	30.0 - 60.0% of mass 95	137451	50.2		Pass
95	Base peak, 100% relative abundance	273877	100.0		Pass
96	5.0 - 9.0% of mass 95	18578	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	236672	86.4		Pass
175	5.0 - 9.0% of mass 174	18225	6.65	(7.70) [a]	Pass
176	95.0 - 101.0% of mass 174	227968	83.2	(96.3) [a]	Pass
177	5.0 - 9.0% of mass 176	15277	5.58	(6.70) [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
VJ5289-CC5237	J0976360.D	05/09/16	09:11	00:36	Continuing cal 5
VJ5290-BS	J0976361.D	05/09/16	09:51	01:16	Blank Spike
VJ5289-BS	J0976361.D	05/09/16	09:51	01:16	Blank Spike
VJ5289-MB	J0976362.D	05/09/16	10:14	01:39	Method Blank
VJ5290-MB	J0976362.D	05/09/16	10:14	01:39	Method Blank
FA33763-1	J0976363.D	05/09/16	13:07	04:32	BPEB-14
FA33763-2	J0976364.D	05/09/16	13:30	04:55	RA5-GWD
FA33763-3	J0976365.D	05/09/16	13:52	05:17	TB 050616
FA33763-2MS	J0976366.D	05/09/16	14:15	05:40	Matrix Spike
FA33763-2MSD	J0976367.D	05/09/16	14:38	06:03	Matrix Spike Duplicate
ZZZZZZ	J0976368.D	05/09/16	15:01	06:26	(unrelated sample)
ZZZZZZ	J0976369.D	05/09/16	15:24	06:49	(unrelated sample)
ZZZZZZ	J0976370.D	05/09/16	15:46	07:11	(unrelated sample)
ZZZZZZ	J0976371.D	05/09/16	16:09	07:34	(unrelated sample)
ZZZZZZ	J0976372.D	05/09/16	16:32	07:57	(unrelated sample)
ZZZZZZ	J0976373.D	05/09/16	16:55	08:20	(unrelated sample)
ZZZZZZ	J0976374.D	05/09/16	17:18	08:43	(unrelated sample)
ZZZZZZ	J0976375.D	05/09/16	17:40	09:05	(unrelated sample)
ZZZZZZ	J0976376.D	05/09/16	18:03	09:28	(unrelated sample)
FA33716-2	J0976377.D	05/09/16	18:26	09:51	(used for QC only; not part of job FA33763)
FA33716-2MS	J0976378.D	05/09/16	18:49	10:14	Matrix Spike
FA33716-2MSD	J0976379.D	05/09/16	19:12	10:37	Matrix Spike Duplicate
VJ5289-ECC5237	J0976380.D	05/09/16	19:34	10:59	Ending cal 5

Volatile Internal Standard Area Summary

Job Number: FA33763
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5289-CC5237	**Injection Date:**	05/09/16
Lab File ID:	J0976360.D	**Injection Time:**	09:11
Instrument ID:	GCMSJ	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1586569	7.76	1198090	10.85	683182	13.21	86536	5.30
Check Std [b]	1310723	7.76	1058345	10.85	597828	13.21	81740	5.29
Upper Limit [c]	2621446	8.26	2116690	11.35	1195656	13.71	163480	5.79
Lower Limit [d]	655362	7.26	529173	10.35	298914	12.71	40870	4.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5290-BS	1309758	7.76	1035972	10.85	580736	13.21	85697	5.30
VJ5289-BS	1309758	7.76	1035972	10.85	580736	13.21	85697	5.30
VJ5289-MB	1184946	7.76	894820	10.85	473961	13.21	71174	5.29
VJ5290-MB	1184946	7.76	894820	10.85	473961	13.21	71174	5.29
FA33763-1	1358411	7.76	1018279	10.85	487252	13.21	70434	5.30
FA33763-2	1141688	7.76	890619	10.85	466036	13.21	63625	5.29
FA33763-3 [e]	1178704	7.76	858063	10.85	445513	13.21	61865	5.30
FA33763-2MS	1186081	7.76	979673	10.85	538815	13.20	75285	5.30
FA33763-2MSD	1240279	7.76	1032821	10.85	560239	13.21	80943	5.30
ZZZZZZ	1185953	7.76	892003	10.85	473660	13.21	69383	5.30
ZZZZZZ	1148652	7.76	870375	10.85	478680	13.21	65104	5.30
ZZZZZZ	1175475	7.76	901229	10.85	466813	13.21	64759	5.29
ZZZZZZ	1146248	7.76	853311	10.85	459927	13.21	61446	5.30
ZZZZZZ	1111059	7.76	835544	10.85	446879	13.21	62742	5.29
ZZZZZZ	1113959	7.76	853530	10.85	470489	13.21	60732	5.29
ZZZZZZ	1146570	7.76	878611	10.85	459697	13.21	63255	5.29
ZZZZZZ	1144689	7.76	853363	10.85	450891	13.21	60540	5.30
ZZZZZZ	1139051	7.76	872285	10.85	472646	13.21	64133	5.29
FA33716-2	1130347	7.76	858219	10.85	447111	13.21	63558	5.30
FA33716-2MS	1173889	7.76	939008	10.85	527017	13.21	74300	5.30
FA33716-2MSD	1276429	7.76	1026748	10.85	561017	13.21	83500	5.30
VJ5289-ECC5237	1325281	7.76	1074488	10.85	613233	13.20	80359	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: VJ5237-ICC5237 J0975154.D 03/15/16 15:51
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Sample received outside the holding time.

Volatile Surrogate Recovery Summary

Job Number: FA33763
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
FA33763-1	J0976363.D	105	100	103	110
FA33763-2	J0976364.D	103	100	102	104
FA33763-3	J0976365.D	102	99	103	104
FA33763-2MS	J0976366.D	103	98	95	97
FA33763-2MSD	J0976367.D	102	99	95	102
VJ5290-BS	J0976361.D	100	100	98	101
VJ5290-MB	J0976362.D	104	101	101	104

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

Initial Calibration Summary

Job Number: FA33763 **Sample:** VJ5237-ICC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975154.D
Project: BMSMC, Building 5 Area, Humacao, PR

Response Factor Report MSVOA6

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

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

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

Initial Calibration Summary

Job Number: FA33763 **Sample:** VJ5237-ICC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975154.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

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

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

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


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

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

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

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

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

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

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

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

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

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

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

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

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

Initial Calibration Summary

Job Number: FA33763 **Sample:** VJ5237-ICC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975154.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

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

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

Initial Calibration Verification

Job Number: FA33763 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

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

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	103	0.00	7.76
2		Dichlorodifluoromethane		----------NA----------				
3	P	Chloromethane		----------NA----------				
4	C	Vinyl Chloride		----------NA----------				
5		1,3-Butadiene		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
6		Bromomethane		----------NA----------				
7		Chloroethane		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
8		Trichlorofluoromethane		----------NA----------				
9		Ethyl Ether		----------NA----------				
10		1,2-Dichlorotrifluoroetha	0.291	0.287	1.4	99	0.00	4.36
11	C	1,1-Dichloroethene		----------NA----------				
12		Freon 113		----------NA----------				
13		Carbon Disulfide		----------NA----------				
14		Iodomethane		----------NA----------				
15		Allyl chloride		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
16		Methylene Chloride		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
17		Acetone		----------NA----------				
18		Methyl acetate		----------NA----------				
19		trans-1,2-Dichloroethene		----------NA----------				
20		Hexane		----------NA----------				
21		Methyl Tert Butyl Ether		----------NA----------				
		----------	Amount	Calc.	%Drift	----------		
22		Acetonitrile		----------NA----------				
		----------	AvgRF	CCRF	%Dev	----------		
23		Di-isopropyl ether		----------NA----------				
24		Chloroprene		----------NA----------				
25	P	1,1-Dichloroethane		----------NA----------				
26		Acrylonitrile		----------NA----------				
27		ETBE		----------NA----------				
28		Vinyl acetate		----------NA----------				
29		cis-1,2-Dichloroethene		----------NA----------				
30		2,2-Dichloropropane		----------NA----------				

Initial Calibration Verification

Job Number: FA33763 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

Initial Calibration Verification

Job Number: FA33763 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

Initial Calibration Verification

Job Number: FA33763 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

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

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

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

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

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

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

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

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

6.7.2

6

Initial Calibration Verification

Job Number: FA33763 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

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

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

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

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

Initial Calibration Verification

Job Number: FA33763 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

Initial Calibration Verification

Job Number: FA33763 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

Initial Calibration Verification

Job Number: FA33763 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.566	0.525	7.2	94	0.00	14.93
103	1,2,4-Trichlorobenzene	0.926	0.914	1.3	97	0.00	14.97

		Amount	Calc.	%Drift			
104	Naphthalene	40.000	41.497	-3.7	106	0.00	15.26

		AvgRF	CCRF	%Dev			
105	1,2,3-Trichlorobenzene	0.820	0.805	1.8	98	0.00	15.43
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	95	0.00	5.30

		Amount	Calc.	%Drift			
107	Ethanol	800.000	682.264	14.7	87	0.00	4.28

		AvgRF	CCRF	%Dev			
108	acrolein	2.923	3.226	-10.4	103	0.00	4.76
109	Tert Butyl Alcohol	1.212	1.230	-1.5	95	0.00	5.37
110	tert Amyl alcohol	0.850	0.964	-13.4	99	0.00	7.57

		Amount	Calc.	%Drift			
111	Isobutyl alcohol	800.000	742.753	7.2	92	0.00	7.46

		AvgRF	CCRF	%Dev			
112	1,4-Dioxane	0.099	0.103	-4.0	96	0.00	8.67
113	3,3-Dimethyl-1-butanol	1.041	1.125	-8.1	97	0.00	10.43

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

6.7.3

6

Continuing Calibration Summary

Job Number: FA33763 **Sample:** VJ5289-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976360.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\050916\J0976360.D          Vial: 1
Acq On    :  9 May 2016   9:11 am                     Operator: darshnap
Sample    : cc5237-5                                  Inst    : MSVOA6
Misc      : MS33802,VJ5289,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	83	0.00	7.76
2		Dichlorodifluoromethane	0.308	0.290	5.8	73	0.00	2.69
3	P	Chloromethane	0.329	0.327	0.6	81	0.00	2.90
4	C	Vinyl Chloride	0.337	0.347	-3.0	82	0.00	3.05
5		1,3-Butadiene	0.251	0.249	0.8	83	0.00	3.04
			Amount	Calc.	%Drift			
6		Bromomethane	40.000	34.385	14.0	74	0.00	3.46
7		Chloroethane	40.000	36.741	8.1	78	0.00	3.61
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.419	0.473	-12.9	88	0.00	3.84
9		Ethyl Ether	0.193	0.190	1.6	78	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.291	0.273	6.2	76	0.00	4.36
11	C	1,1-Dichloroethene	0.362	0.345	4.7	78	0.00	4.40
12		Freon 113	0.250	0.225	10.0	73	0.00	4.47
13		Carbon Disulfide	0.754	0.705	6.5	75	0.00	4.47
14		Iodomethane	0.400	0.375	6.3	76	0.00	4.59
15		Allyl chloride	0.335	0.334	0.3	82	0.00	4.92
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	41.031	-2.6	83	0.00	5.04
			AvgRF	CCRF	%Dev			
17		Acetone	0.015	0.016	-6.7	93	0.00	5.06
18		Methyl acetate	0.029	0.027	6.9	73	0.00	5.19
19		trans-1,2-Dichloroethene	0.332	0.319	3.9	77	0.00	5.22
20		Hexane	0.213	0.204	4.2	77	0.00	5.30
21		Methyl Tert Butyl Ether	0.663	0.649	2.1	78	0.00	5.33
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	418.348	-4.6	93	0.00	5.59
			AvgRF	CCRF	%Dev			
23		Di-isopropyl ether	0.759	0.734	3.3	76	0.00	5.71
24		Chloroprene	0.357	0.344	3.6	77	0.00	5.86
25	P	1,1-Dichloroethane	0.444	0.435	2.0	80	0.00	5.89
26		Acrylonitrile	0.066	0.066	0.0	85	0.00	5.92
27		ETBE	0.760	0.797	-4.9	81	0.00	6.11
28		Vinyl acetate	0.384	0.423	-10.2	88	-0.01	6.10
29		cis-1,2-Dichloroethene	0.285	0.272	4.6	76	0.00	6.47
30		2,2-Dichloropropane	0.346	0.357	-3.2	83	0.00	6.61

Continuing Calibration Summary

Job Number: FA33763 **Sample:** VJ5289-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976360.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.129	0.128	0.8	79	0.00	6.68
32		Cyclohexane	0.417	0.382	8.4	73	0.00	6.73
33	C	Chloroform	0.493	0.478	3.0	78	0.00	6.73
34		Ethyl acetate	0.154	0.144	6.5	79	0.00	6.80
			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	35.556	11.1	74	-0.01	6.91
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.254	0.251	1.2	80	0.00	6.92
37		Carbon Tetrachloride	0.343	0.353	-2.9	81	0.00	6.93
38		1,1,1-Trichloroethane	0.421	0.404	4.0	76	0.00	6.99
			Amount	Calc.	%Drift			
39		2-Butanone	200.000	202.072	-1.0	85	0.00	7.02
			AvgRF	CCRF	%Dev			
40		1,1-Dichloropropene	0.340	0.316	7.1	75	0.00	7.10
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	453.897	-13.5	95	0.00	7.18
			AvgRF	CCRF	%Dev			
42		Propionitrile	0.023	0.023	0.0	86	0.00	7.33
43		Methacrylonitrile	0.107	0.103	3.7	86	0.00	7.35
44		Benzene	1.036	1.067	-3.0	82	0.00	7.35
45		TAME	0.686	0.727	-6.0	83	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.307	0.308	-0.3	84	0.00	7.48
47		1,2-Dichloroethane	0.363	0.355	2.2	81	0.00	7.54
48		Trichloroethene	0.268	0.257	4.1	78	0.00	7.93
49		Methylcyclohexane	0.451	0.437	3.1	77	0.00	7.96
50		Dibromomethane	0.150	0.147	2.0	78	0.00	8.36
51	C	1,2-Dichloropropane	0.260	0.257	1.2	79	0.00	8.45
52		Bromodichloromethane	0.334	0.345	-3.3	81	0.00	8.49
53		Methyl methacrylate	0.138	0.138	0.0	80	0.00	8.59
54		2-Chloroethyl vinyl ether	0.132	0.145	-9.8	88	0.00	9.00
			Amount	Calc.	%Drift			
55		cis-1,3-Dichloropropene	40.000	40.367	-0.9	82	0.00	9.11
			AvgRF	CCRF	%Dev			
56	I	Chlorobenzene-d5	1.000	1.000	0.0	88	0.00	10.85
57	S	Toluene-d8	1.315	1.228	6.6	83	0.00	9.30
58	C	Toluene	1.448	1.365	5.7	82	0.00	9.35
			Amount	Calc.	%Drift			
59		2-Nitropropane	200.000	189.568	5.2	81	0.00	9.56
			AvgRF	CCRF	%Dev			
60		4-Methyl-2-pentanone	0.207	0.217	-4.8	90	0.00	9.67
			Amount	Calc.	%Drift			
61		trans-1,3-Dichloropropene	40.000	40.370	-0.9	87	0.00	9.73
			AvgRF	CCRF	%Dev			
62		Tetrachloroethene	0.387	0.328	15.2	72	0.00	9.76
63		Ethyl methacrylate	0.331	0.327	1.2	82	0.00	9.84
64		1,1,2-Trichloroethane	0.236	0.230	2.5	82	0.00	9.90
65		Dibromochloromethane	0.300	0.308	-2.7	84	0.00	10.10

Continuing Calibration Summary

Job Number: FA33763 **Sample:** VJ5289-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976360.D
Project: BMSMC, Building 5 Area, Humacao, PR

66		1,3-Dichloropropane	0.483	0.458	5.2	80	0.00	10.18
67		1,2-Dibromoethane	0.268	0.252	6.0	78	0.00	10.36
68		2-hexanone	0.137	0.152	-10.9	94	0.00	10.49
69		1-Chlorohexane	0.425	0.417	1.9	81	0.00	10.80
70	C	Ethylbenzene	1.651	1.662	-0.7	86	0.00	10.86
71	P	Chlorobenzene	0.963	0.967	-0.4	86	0.00	10.86
72		1,1,1,2-Tetrachloroethane	0.313	0.327	-4.5	86	0.00	10.91
		----------	Amount	Calc.	%Drift		----------	
73		m,p-Xylene	80.000	78.864	1.4	86	0.00	11.00
		----------	AvgRF	CCRF	%Dev		----------	
74		o-Xylene	1.276	1.287	-0.9	83	0.00	11.44
		----------	Amount	Calc.	%Drift		----------	
75		Styrene	40.000	40.581	-1.5	88	0.00	11.48
76	P	Bromoform	40.000	41.973	-4.9	92	0.00	11.55
		----------	AvgRF	CCRF	%Dev		----------	
77		Isopropylbenzene	1.474	1.528	-3.7	84	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00	13.21
79	S	4-Bromofluorobenzene	0.904	0.900	0.4	87	0.00	12.05
80		cis-1,4-Dichloro-2-butene	0.162	0.165	-1.9	88	0.00	12.09
81		n-Propylbenzene	3.173	3.314	-4.4	87	0.00	12.16
82		Bromobenzene	0.747	0.767	-2.7	87	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.603	0.624	-3.5	87	0.00	12.22
84		1,3,5-Trimethylbenzene	2.401	2.549	-6.2	85	0.00	12.34
85		2-Chlorotoluene	2.329	2.432	-4.4	89	0.00	12.35
		----------	Amount	Calc.	%Drift		----------	
86		trans-1,4-Dichloro-2-Bute	40.000	40.084	-0.2	88	0.00	12.40
		----------	AvgRF	CCRF	%Dev		----------	
87		1,2,3-Trichloropropane	0.154	0.161	-4.5	88	0.00	12.38
88		Cyclohexanone	0.010	0.015	-50.0#	144	0.00	12.45
89		4-Chlorotoluene	2.085	2.215	-6.2	88	0.00	12.52
90		a-Methyl Styrene	0.686	1.363	-98.7#	167	0.00	12.60
91		tert-Butylbenzene	1.403	1.426	-1.6	85	0.00	12.68
92		1,2,4-Trimethylbenzene	2.398	2.548	-6.3	86	0.00	12.75
		----------	Amount	Calc.	%Drift		----------	
93		Pentachloroethane	40.000	44.102	-10.3	105	0.00	12.74
		----------	AvgRF	CCRF	%Dev		----------	
94		sec-Butylbenzene	2.899	3.012	-3.9	85	0.00	12.87
95		4-Isopropyltoluene	2.432	2.566	-5.5	86	0.00	13.00
96		1,3-Dichlorobenzene	1.325	1.337	-0.9	86	0.00	13.13
97		1,4-Dichlorobenzene	1.406	1.387	1.4	86	0.00	13.22
98		n-Butylbenzene	1.402	1.483	-5.8	86	0.00	13.43
		----------	Amount	Calc.	%Drift		----------	
99		Benzyl Chloride	40.000	44.346	-10.9	93	0.00	13.45
		----------	AvgRF	CCRF	%Dev		----------	
100		1,2-Dichlorobenzene	1.268	1.229	3.1	82	0.00	13.64
		----------	Amount	Calc.	%Drift		----------	
101		1,2-Dibromo-3-Chloropropa	40.000	36.502	8.7	77	0.00	14.38

Continuing Calibration Summary

Job Number: FA33763 **Sample:** VJ5289-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976360.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.566	0.536	5.3	79	0.00	14.93
103	1,2,4-Trichlorobenzene	0.926	0.813	12.2	71	0.00	14.97

		Amount	Calc.	%Drift			
104	Naphthalene	40.000	30.477	23.8#	64	0.00	15.26

		AvgRF	CCRF	%Dev			
105	1,2,3-Trichlorobenzene	0.820	0.689	16.0	69	0.00	15.43
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	94	0.00	5.29

		Amount	Calc.	%Drift			
107	Ethanol	800.000	959.678	-20.0	117	0.00	4.27

		AvgRF	CCRF	%Dev			
108	acrolein	2.923	2.407	17.7	76	0.00	4.75
109	Tert Butyl Alcohol	1.212	1.183	2.4	90	0.00	5.38
110	tert Amyl alcohol	0.850	0.940	-10.6	96	0.00	7.57

		Amount	Calc.	%Drift			
111	Isobutyl alcohol	800.000	775.446	3.1	95	0.00	7.45

		AvgRF	CCRF	%Dev			
112	1,4-Dioxane	0.099	0.125	-26.3#	116	0.00	8.67
113	3,3-Dimethyl-1-butanol	1.041	1.121	-7.7	96	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0975154.D MSJ031516.M Tue May 10 08:20:57 2016

6.7.4 6

Continuing Calibration Summary

Job Number: FA33763 **Sample:** VJ5289-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976380.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\050916\J0976380.D          Vial: 16
Acq On    :  9 May 2016   7:34 pm                     Operator: darshnap
Sample    : ecc5237-5                                 Inst    : MSVOA6
Misc      : MS33818,VJ5289,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	84	0.00	7.76
2		Dichlorodifluoromethane	0.308	0.293	4.9	75	0.00	2.69
3	P	Chloromethane	0.329	0.329	0.0	82	0.00	2.90
4	C	Vinyl Chloride	0.337	0.353	-4.7	84	0.00	3.05
5		1,3-Butadiene	0.251	0.282	-12.4	95	0.00	3.04
			Amount	Calc.	%Drift			
6		Bromomethane	40.000	34.889	12.8	76	0.00	3.46
7		Chloroethane	40.000	38.399	4.0	82	0.01	3.63
			AvgRF	CCRF	%Dev			
8		Trichlorofluoromethane	0.419	0.474	-13.1	90	0.00	3.84
9		Ethyl Ether	0.193	0.179	7.3	74	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.291	0.290	0.3	81	0.00	4.36
11	C	1,1-Dichloroethene	0.362	0.375	-3.6	86	0.01	4.40
12		Freon 113	0.250	0.241	3.6	79	0.00	4.47
13		Carbon Disulfide	0.754	0.753	0.1	81	0.00	4.48
14		Iodomethane	0.400	0.389	2.8	79	0.00	4.59
15		Allyl chloride	0.335	0.330	1.5	82	0.00	4.93
			Amount	Calc.	%Drift			
16		Methylene Chloride	40.000	39.541	1.1	81	0.00	5.05
			AvgRF	CCRF	%Dev			
17		Acetone	0.015	0.014	6.7	86	0.00	5.07
18		Methyl acetate	0.029	0.025	13.8	69	0.00	5.19
19		trans-1,2-Dichloroethene	0.332	0.338	-1.8	82	0.00	5.23
20		Hexane	0.213	0.214	-0.5	81	0.00	5.30
21		Methyl Tert Butyl Ether	0.663	0.632	4.7	77	0.00	5.34
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	372.068	7.0	84	0.01	5.60
			AvgRF	CCRF	%Dev			
23		Di-isopropyl ether	0.759	0.744	2.0	78	0.00	5.72
24		Chloroprene	0.357	0.367	-2.8	83	0.00	5.88
25	P	1,1-Dichloroethane	0.444	0.442	0.5	82	0.00	5.90
26		Acrylonitrile	0.066	0.062	6.1	81	0.00	5.92
27		ETBE	0.760	0.785	-3.3	80	0.00	6.12
28		Vinyl acetate	0.384	0.393	-2.3	83	0.00	6.11
29		cis-1,2-Dichloroethene	0.285	0.280	1.8	79	0.00	6.47
30		2,2-Dichloropropane	0.346	0.359	-3.8	84	0.00	6.61

Continuing Calibration Summary

Job Number: FA33763 **Sample:** VJ5289-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976380.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.129	0.127	1.6	79	0.00	6.69
32		Cyclohexane	0.417	0.422	-1.2	82	0.00	6.73
33	C	Chloroform	0.493	0.493	0.0	82	0.00	6.74
34		Ethyl acetate	0.154	0.132	14.3	73	0.00	6.81
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	33.263	16.8	70	0.00	6.92
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.254	0.252	0.8	82	0.00	6.93
37		Carbon Tetrachloride	0.343	0.389	-13.4	90	0.00	6.93
38		1,1,1-Trichloroethane	0.421	0.436	-3.6	83	0.00	7.00
		----------	Amount	Calc.	%Drift	----------		
39		2-Butanone	200.000	191.034	4.5	81	0.00	7.02
		----------	AvgRF	CCRF	%Dev	----------		
40		1,1-Dichloropropene	0.340	0.345	-1.5	83	0.00	7.10
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	426.006	-6.5	90	0.00	7.19
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.023	0.020	13.0	77	0.00	7.34
43		Methacrylonitrile	0.107	0.090	15.9	76	0.00	7.36
44		Benzene	1.036	1.084	-4.6	85	0.00	7.36
45		TAME	0.686	0.712	-3.8	82	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.307	0.297	3.3	82	0.00	7.48
47		1,2-Dichloroethane	0.363	0.343	5.5	79	0.00	7.55
48		Trichloroethene	0.268	0.275	-2.6	85	0.00	7.94
49		Methylcyclohexane	0.451	0.480	-6.4	85	0.00	7.96
50		Dibromomethane	0.150	0.139	7.3	74	0.00	8.36
51	C	1,2-Dichloropropane	0.260	0.254	2.3	79	0.00	8.45
52		Bromodichloromethane	0.334	0.340	-1.8	81	0.00	8.49
53		Methyl methacrylate	0.138	0.124	10.1	73	0.00	8.59
54		2-Chloroethyl vinyl ether	0.132	0.126	4.5	77	0.00	9.01
		----------	Amount	Calc.	%Drift	----------		
55		cis-1,3-Dichloropropene	40.000	38.673	3.3	79	0.00	9.11
		----------	AvgRF	CCRF	%Dev	----------		
56	I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00	10.85
57	S	Toluene-d8	1.315	1.222	7.1	84	0.00	9.30
58	C	Toluene	1.448	1.393	3.8	85	0.00	9.36
		----------	Amount	Calc.	%Drift	----------		
59		2-Nitropropane	200.000	169.972	15.0	74	0.00	9.56
		----------	AvgRF	CCRF	%Dev	----------		
60		4-Methyl-2-pentanone	0.207	0.203	1.9	86	0.00	9.67
		----------	Amount	Calc.	%Drift	----------		
61		trans-1,3-Dichloropropene	40.000	38.000	5.0	83	0.00	9.73
		----------	AvgRF	CCRF	%Dev	----------		
62		Tetrachloroethene	0.387	0.383	1.0	85	0.00	9.76
63		Ethyl methacrylate	0.331	0.300	9.4	76	0.00	9.84
64		1,1,2-Trichloroethane	0.236	0.218	7.6	79	0.00	9.90
65		Dibromochloromethane	0.300	0.291	3.0	81	0.00	10.10

Continuing Calibration Summary

Job Number: FA33763 **Sample:** VJ5289-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976380.D
Project: BMSMC, Building 5 Area, Humacao, PR

66		1,3-Dichloropropane	0.483	0.430	11.0	76	0.00	10.18
67		1,2-Dibromoethane	0.268	0.240	10.4	76	0.00	10.36
68		2-hexanone	0.137	0.140	-2.2	88	0.00	10.49
69		1-Chlorohexane	0.425	0.447	-5.2	88	0.00	10.80
70	C	Ethylbenzene	1.651	1.721	-4.2	90	0.00	10.86
71	P	Chlorobenzene	0.963	0.985	-2.3	89	0.00	10.86
72		1,1,1,2-Tetrachloroethane	0.313	0.318	-1.6	85	0.00	10.91
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	81.942	-2.4	90	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.276	1.326	-3.9	87	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	40.203	-0.5	89	0.00	11.49
76	P	Bromoform	40.000	39.870	0.3	88	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.474	1.634	-10.9	92	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	13.20
79	S	4-Bromofluorobenzene	0.904	0.894	1.1	89	0.00	12.05
80		cis-1,4-Dichloro-2-butene	0.162	0.122	24.7	66	0.00	12.09
81		n-Propylbenzene	3.173	3.465	-9.2	93	0.00	12.16
82		Bromobenzene	0.747	0.761	-1.9	89	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.603	0.586	2.8	84	0.00	12.22
84		1,3,5-Trimethylbenzene	2.401	2.631	-9.6	91	0.00	12.34
85		2-Chlorotoluene	2.329	2.476	-6.3	93	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	30.837	22.9	69	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.154	0.154	0.0	86	0.00	12.38
88		Cyclohexanone	0.010	0.011	-10.0	110	0.00	12.45
89		4-Chlorotoluene	2.085	2.230	-7.0	91	0.00	12.52
90		a-Methyl Styrene	0.686	1.330	-93.9#	167	0.00	12.60
91		tert-Butylbenzene	1.403	1.492	-6.3	91	0.00	12.68
92		1,2,4-Trimethylbenzene	2.398	2.624	-9.4	91	0.00	12.75
		----------	Amount	Calc.	%Drift	----------		
93		Pentachloroethane	40.000	35.743	10.6	88	0.00	12.74
		----------	AvgRF	CCRF	%Dev	----------		
94		sec-Butylbenzene	2.899	3.194	-10.2	93	0.00	12.87
95		4-Isopropyltoluene	2.432	2.688	-10.5	92	0.00	13.00
96		1,3-Dichlorobenzene	1.325	1.363	-2.9	90	0.00	13.13
97		1,4-Dichlorobenzene	1.406	1.390	1.1	88	0.00	13.22
98		n-Butylbenzene	1.402	1.536	-9.6	92	0.00	13.43
		----------	Amount	Calc.	%Drift	----------		
99		Benzyl Chloride	40.000	39.028	2.4	83	0.00	13.45
		----------	AvgRF	CCRF	%Dev	----------		
100		1,2-Dichlorobenzene	1.268	1.234	2.7	85	0.00	13.64
		----------	Amount	Calc.	%Drift	----------		
101		1,2-Dibromo-3-Chloropropa	40.000	32.585	18.5	70	0.00	14.38

Continuing Calibration Summary

Job Number: FA33763 **Sample:** VJ5289-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976380.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.566	0.553	2.3	84	0.00	14.93
103	1,2,4-Trichlorobenzene	0.926	0.811	12.4	73	0.00	14.97

		Amount	Calc.	%Drift			
104	Naphthalene	40.000	29.882	25.3	65	0.00	15.26

		AvgRF	CCRF	%Dev			
105	1,2,3-Trichlorobenzene	0.820	0.690	15.9	71	0.00	15.43
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	93	0.00	5.30

		Amount	Calc.	%Drift			
107	Ethanol	800.000	906.458	-13.3	109	0.02	4.29

		AvgRF	CCRF	%Dev			
108	acrolein	2.923	2.624	10.2	82	0.00	4.76
109	Tert Butyl Alcohol	1.212	1.171	3.4	88	0.00	5.38
110	tert Amyl alcohol	0.850	0.893	-5.1	89	0.00	7.58

		Amount	Calc.	%Drift			
111	Isobutyl alcohol	800.000	716.158	10.5	86	0.00	7.45

		AvgRF	CCRF	%Dev			
112	1,4-Dioxane	0.099	0.126	-27.3	115	0.00	8.67
113	3,3-Dimethyl-1-butanol	1.041	1.045	-0.4	88	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0975154.D MSJ031516.M Tue May 10 08:24:14 2016

6.7.5

6

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976363.D
Acq On : 9 May 2016 1:07 pm
Operator : darshnap
Sample : fa33763-1 ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 07:57:46 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1358411	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1018279	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	487252	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	70434	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	362844	52.64	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.28%			
46) 1,2-Dichloroethane-d4	7.476	65	415363	49.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.66%			
57) Toluene-d8	9.301	98	1381208	51.56	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.12%			
79) 4-Bromofluorobenzene	12.057	95	486190	55.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.34%			

Target Compounds Qvalue

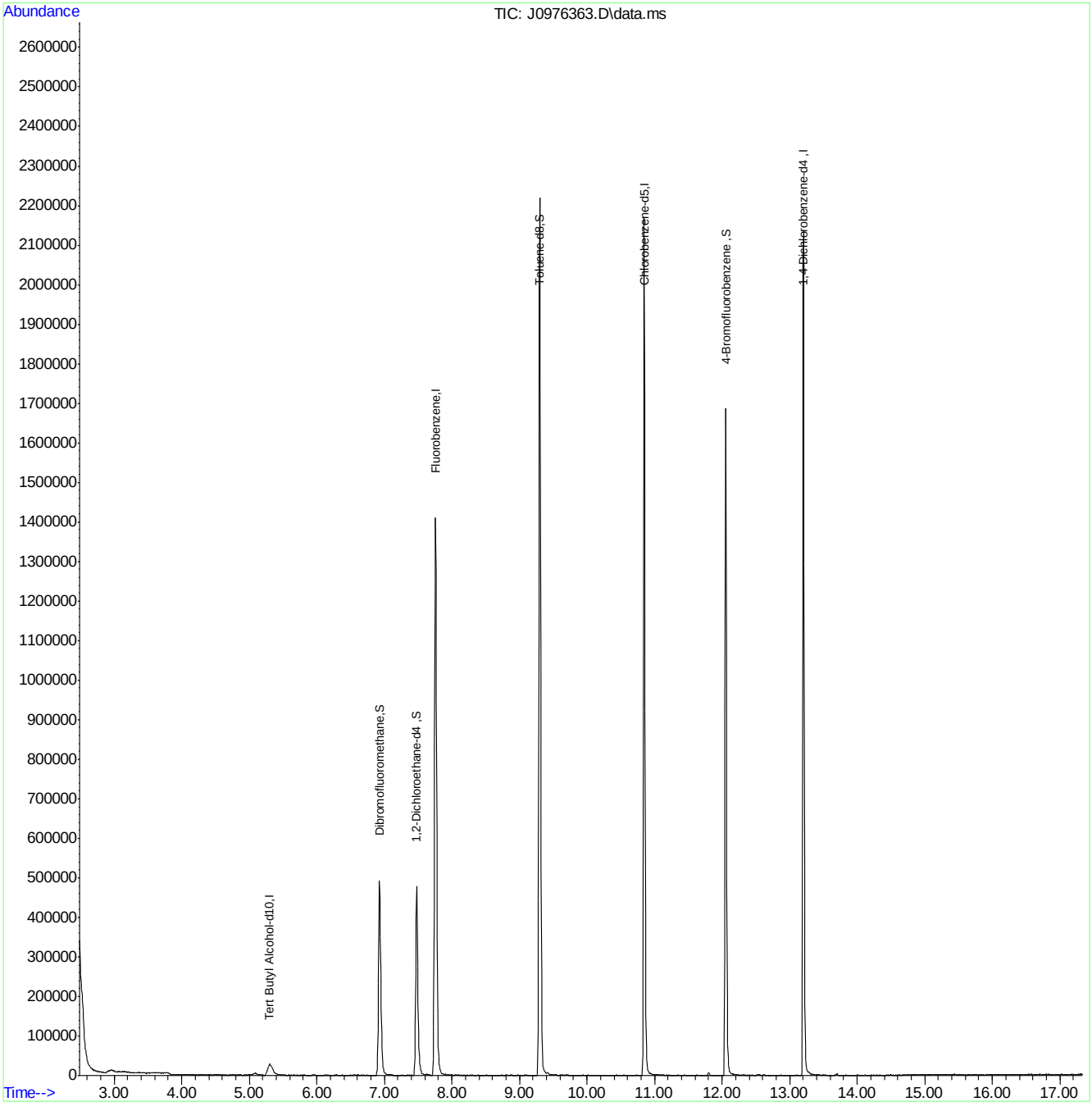
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976363.D
Acq On : 9 May 2016 1:07 pm
Operator : darshnap
Sample : fa33763-1 ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 07:57:46 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976364.D
Acq On : 9 May 2016 1:30 pm
Operator : darshnap
Sample : fa33763-2 ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 07:59:22 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1141688	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	890619	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	466036	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	63625	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	298410	51.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.02%			
46) 1,2-Dichloroethane-d4	7.476	65	350812	50.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.14%			
57) Toluene-d8	9.301	98	1189746	50.77	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.54%			
79) 4-Bromofluorobenzene	12.057	95	437454	51.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.80%			
Target Compounds						Qvalue
9) Ethyl Ether	4.124	59	4786	1.08	ug/L	89
17) Acetone	5.103	58	4200	12.27	ug/L #	57
21) Methyl Tert Butyl Ether	5.334	73	19345	1.28	ug/L	71
23) Di-isopropyl ether	5.724	45	13909	0.80	ug/L	93
35) Tetrahydrofuran	6.934	42	1774	1.68	ug/L #	77
44) Benzene	7.360	78	21895	0.93	ug/L	77
77) Isopropylbenzene	11.747	105	9520	0.36	ug/L	89
109) Tert Butyl Alcohol	5.371	59	3205	10.39	ug/L #	80
112) 1,4-Dioxane	8.668	88	460066	18210.13	ug/L	94

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

7.1.2

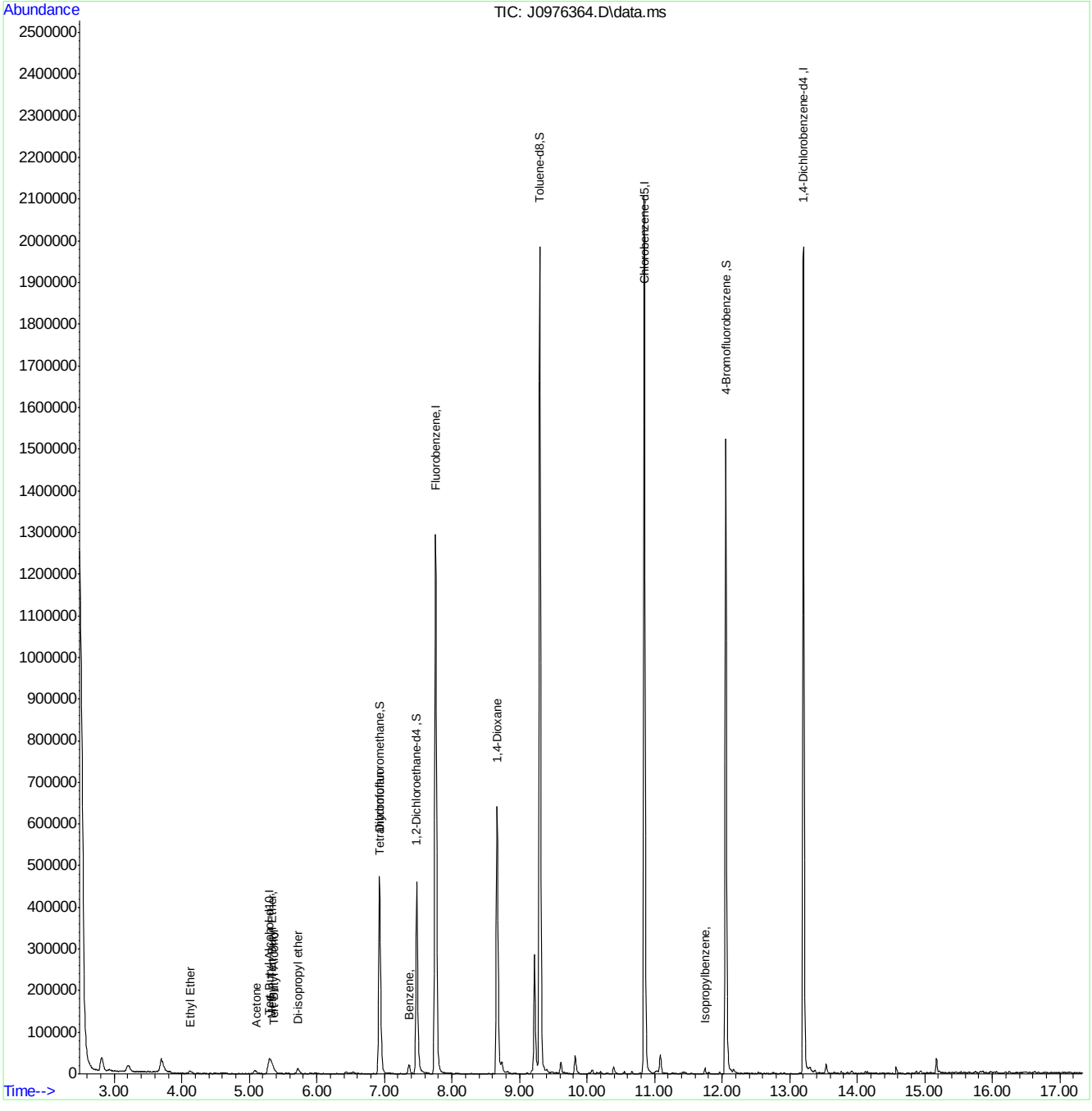
7

SGS ACCUTEST FA33763

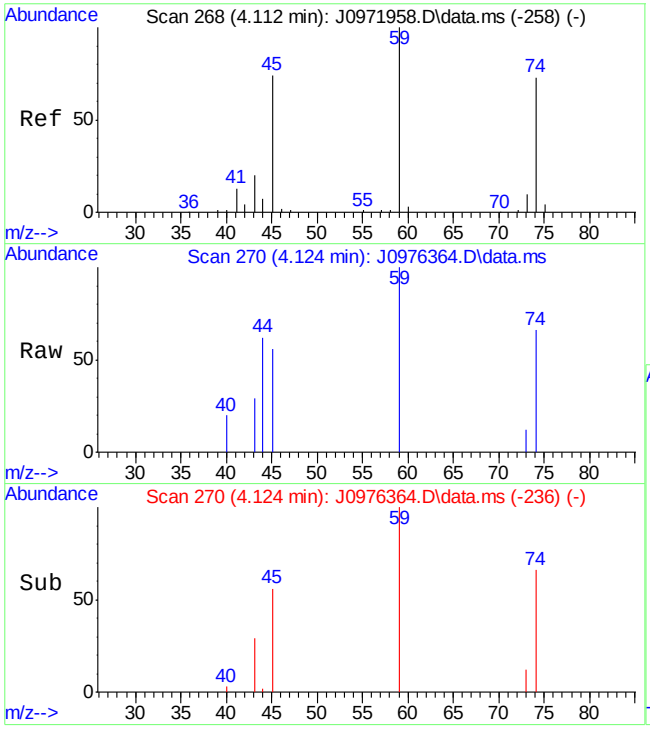
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976364.D
Acq On : 9 May 2016 1:30 pm
Operator : darshnap
Sample : fa33763-2 ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 07:59:22 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



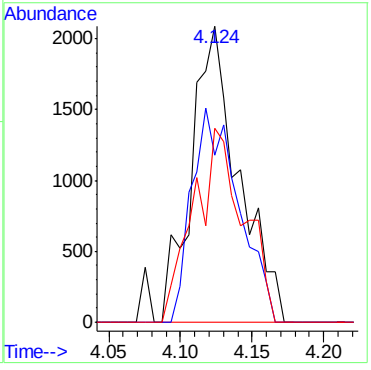
MSJ031516.M Tue May 10 10:46:29 2016 Page: 2

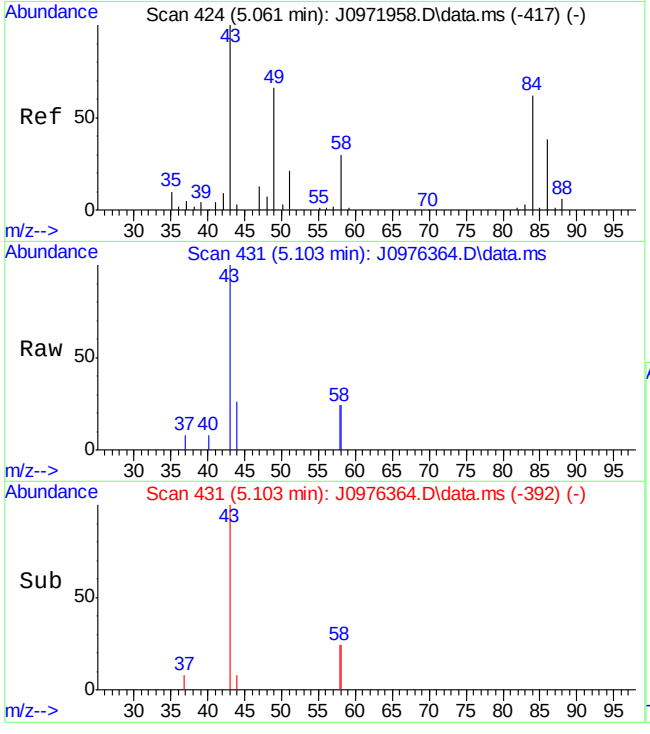


#9
Ethyl Ether
Concen: 1.08 ug/L
RT: 4.124 min Scan# 270
Delta R.T. 0.006 min
Lab File: J0976364.D
Acq: 9 May 2016 1:30 pm

Tgt Ion: 59 Resp: 4786

Ion	Ratio	Lower	Upper
59	100		
45	56.5	50.5	90.5
74	65.5	50.1	90.1

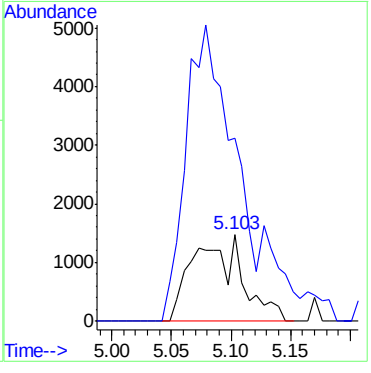




#17
Acetone
Concen: 12.27 ug/L
RT: 5.103 min Scan# 431
Delta R.T. 0.036 min
Lab File: J0976364.D
Acq: 9 May 2016 1:30 pm

Tgt Ion: 58 Resp: 4200

Ion	Ratio	Lower	Upper
58	100		
43	210.8	263.6	323.6#



7.1.2

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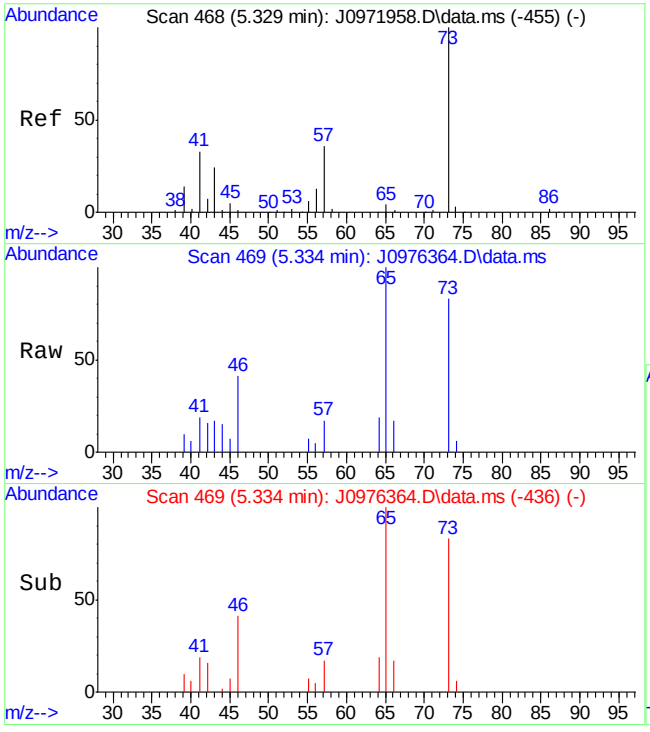
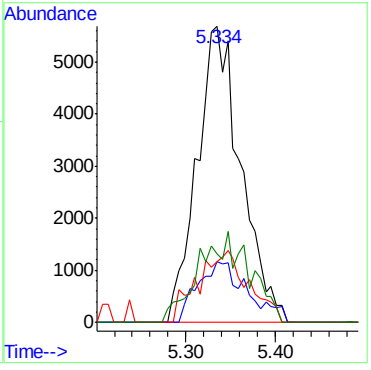
SGS ACCUTEST FA33763

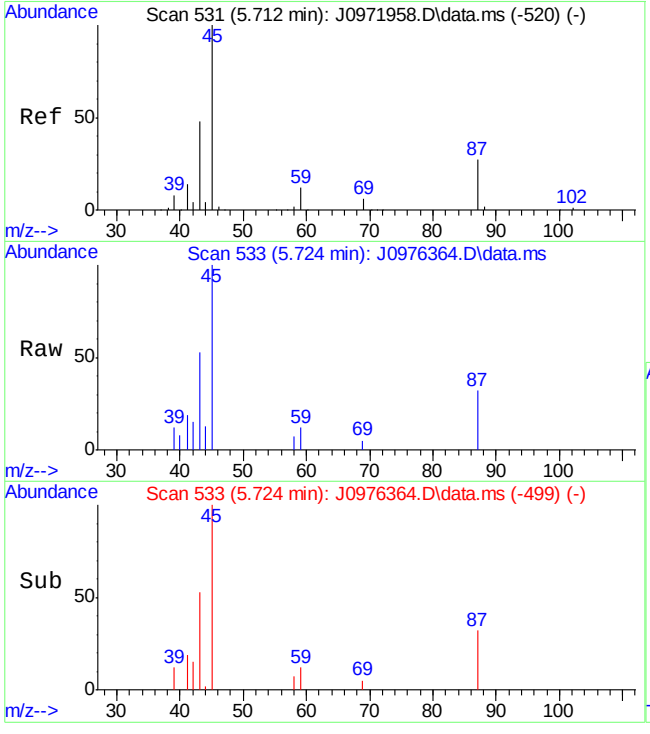


#21
Methyl Tert Butyl Ether
Concen: 1.28 ug/L
RT: 5.334 min Scan# 469
Delta R.T. -0.001 min
Lab File: J0976364.D
Acq: 9 May 2016 1:30 pm

Tgt Ion: 73 Resp: 19345

Ion	Ratio	Lower	Upper
73	100		
57	20.5	17.3	77.3
43	20.5	2.8	62.8
41	23.1	6.2	66.2

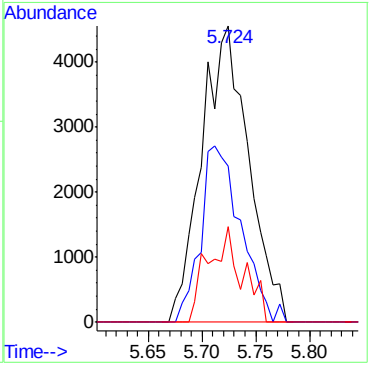


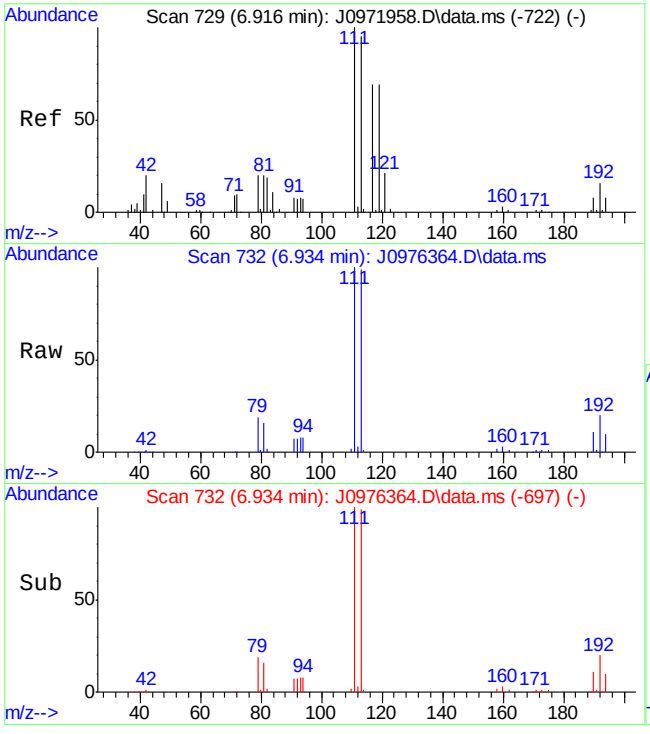


#23
Di-isopropyl ether
Concen: 0.80 ug/L
RT: 5.724 min Scan# 533
Delta R.T. 0.006 min
Lab File: J0976364.D
Acq: 9 May 2016 1:30 pm

Tgt Ion: 45 Resp: 13909

Ion	Ratio	Lower	Upper
45	100		
43	52.8	16.8	76.8
87	32.0	0.0	59.5

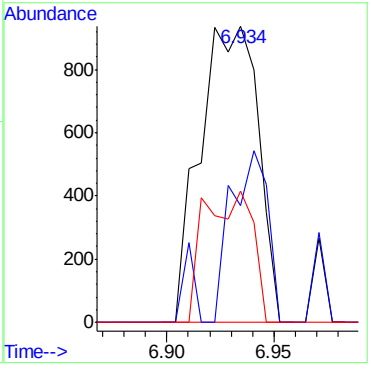


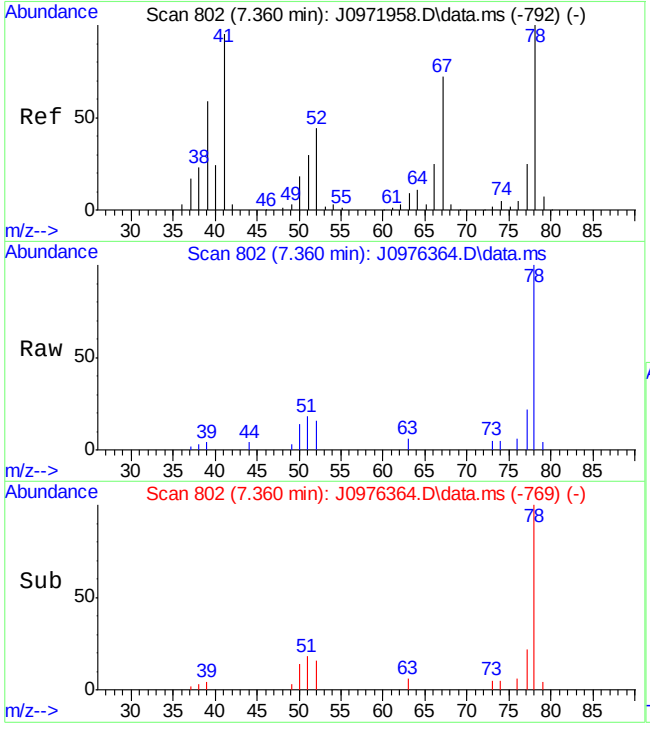


#35
Tetrahydrofuran
Concen: 1.68 ug/L
RT: 6.934 min Scan# 732
Delta R.T. 0.012 min
Lab File: J0976364.D
Acq: 9 May 2016 1:30 pm

Tgt Ion: 42 Resp: 1774

Ion	Ratio	Lower	Upper
42	100		
41	39.3	42.3	82.3#
72	44.5	35.1	75.1

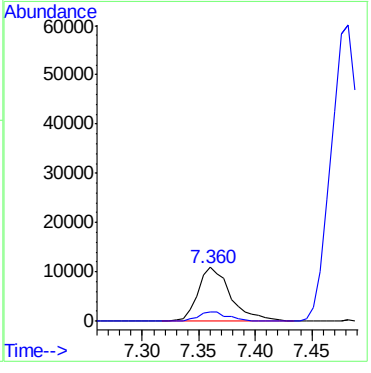


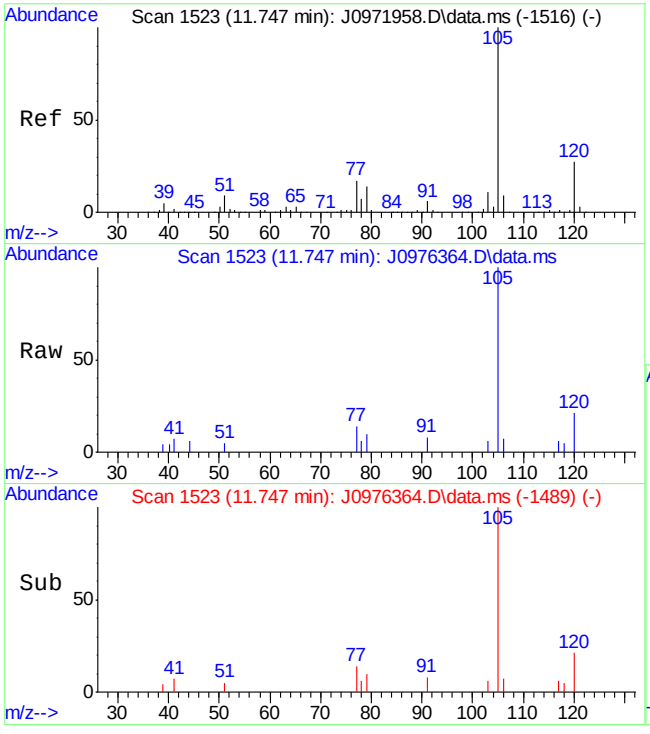


#44
Benzene
Concen: 0.93 ug/L
RT: 7.360 min Scan# 802
Delta R.T. 0.000 min
Lab File: J0976364.D
Acq: 9 May 2016 1:30 pm

Tgt Ion: 78 Resp: 21895

Ion	Ratio	Lower	Upper
78	100		
51	17.9	0.7	60.7

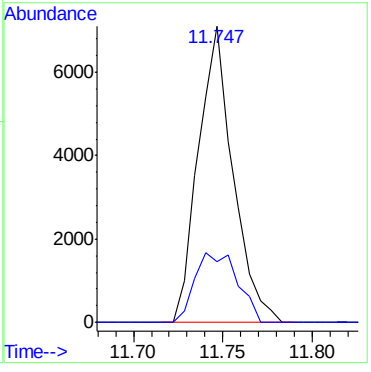


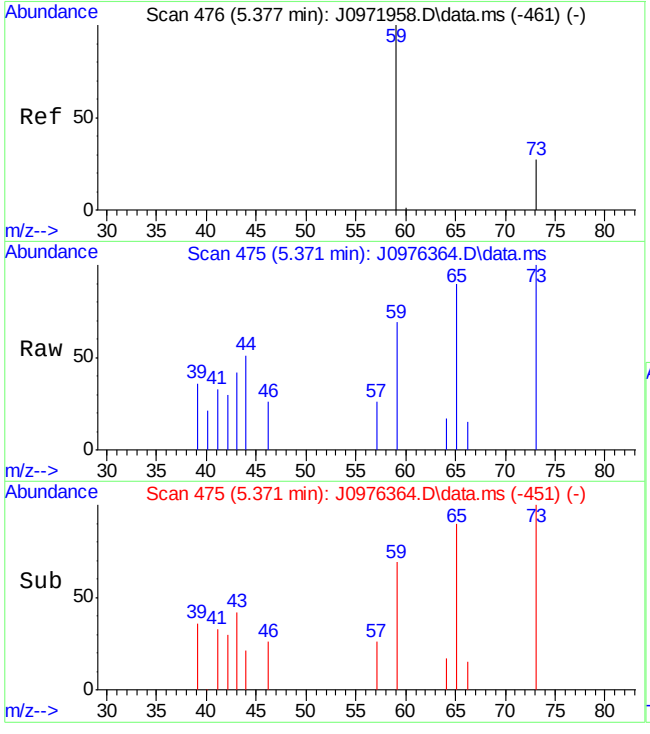


#77
Isopropylbenzene
Concen: 0.36 ug/L
RT: 11.747 min Scan# 1523
Delta R.T. 0.006 min
Lab File: J0976364.D
Acq: 9 May 2016 1:30 pm

Tgt Ion:105 Resp: 9520

Ion	Ratio	Lower	Upper
105	100		
120	20.6	0.0	56.4

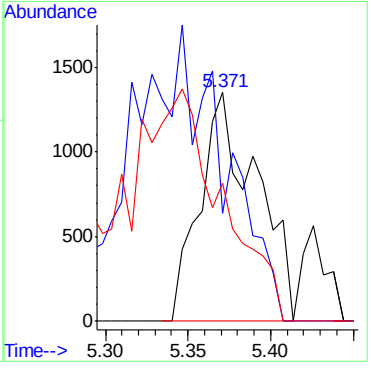




#109
Tert Butyl Alcohol
Concen: 10.39 ug/L
RT: 5.371 min Scan# 475
Delta R.T. -0.006 min
Lab File: J0976364.D
Acq: 9 May 2016 1:30 pm

Tgt Ion: 59 Resp: 3205

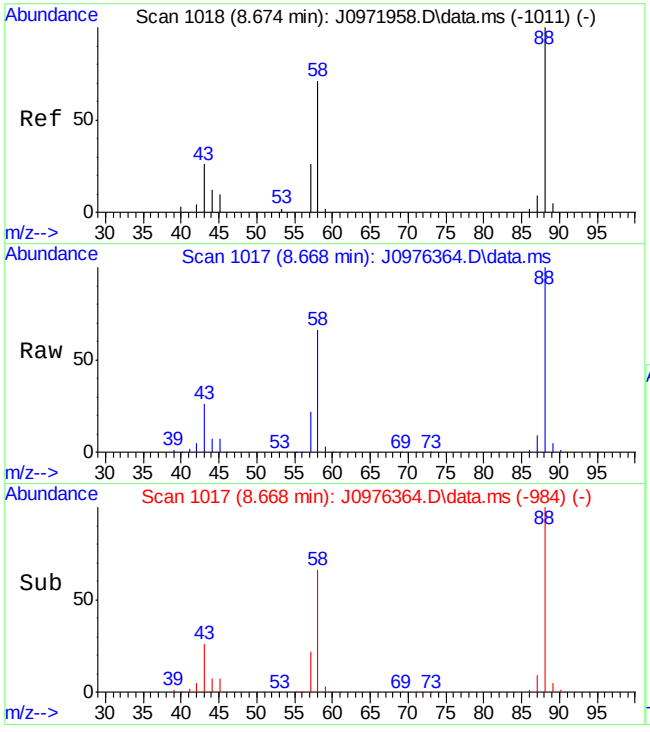
Ion	Ratio	Lower	Upper
59	100		
41	47.2	27.9	67.9
43	60.4	13.1	53.1#



7.1.2

7

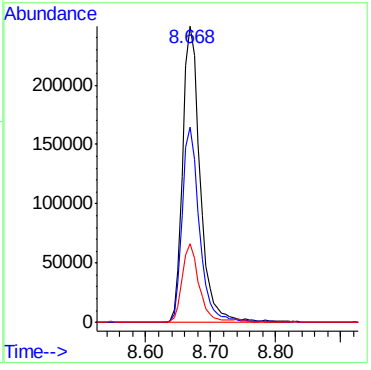
SGS ACCUTEST FA33763



#112
1,4-Dioxane
Concen: 18210.13 ug/L
RT: 8.668 min Scan# 1017
Delta R.T. 0.000 min
Lab File: J0976364.D
Acq: 9 May 2016 1:30 pm

Tgt Ion: 88 Resp: 460066

Ion	Ratio	Lower	Upper
88	100		
58	65.9	29.4	89.4
43	26.4	0.0	57.3



7.1.2

7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976365.D
Acq On : 9 May 2016 1:52 pm
Operator : darshnap
Sample : fa33763-3 ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 07:59:51 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.762	96	1178704	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	858063	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	445513	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	61865	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	304549	50.92	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.84%			
46) 1,2-Dichloroethane-d4	7.482	65	356601	49.30	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.60%			
57) Toluene-d8	9.301	98	1167833	51.73	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.46%			
79) 4-Bromofluorobenzene	12.057	95	420865	52.23	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.46%			

Target Compounds Qvalue

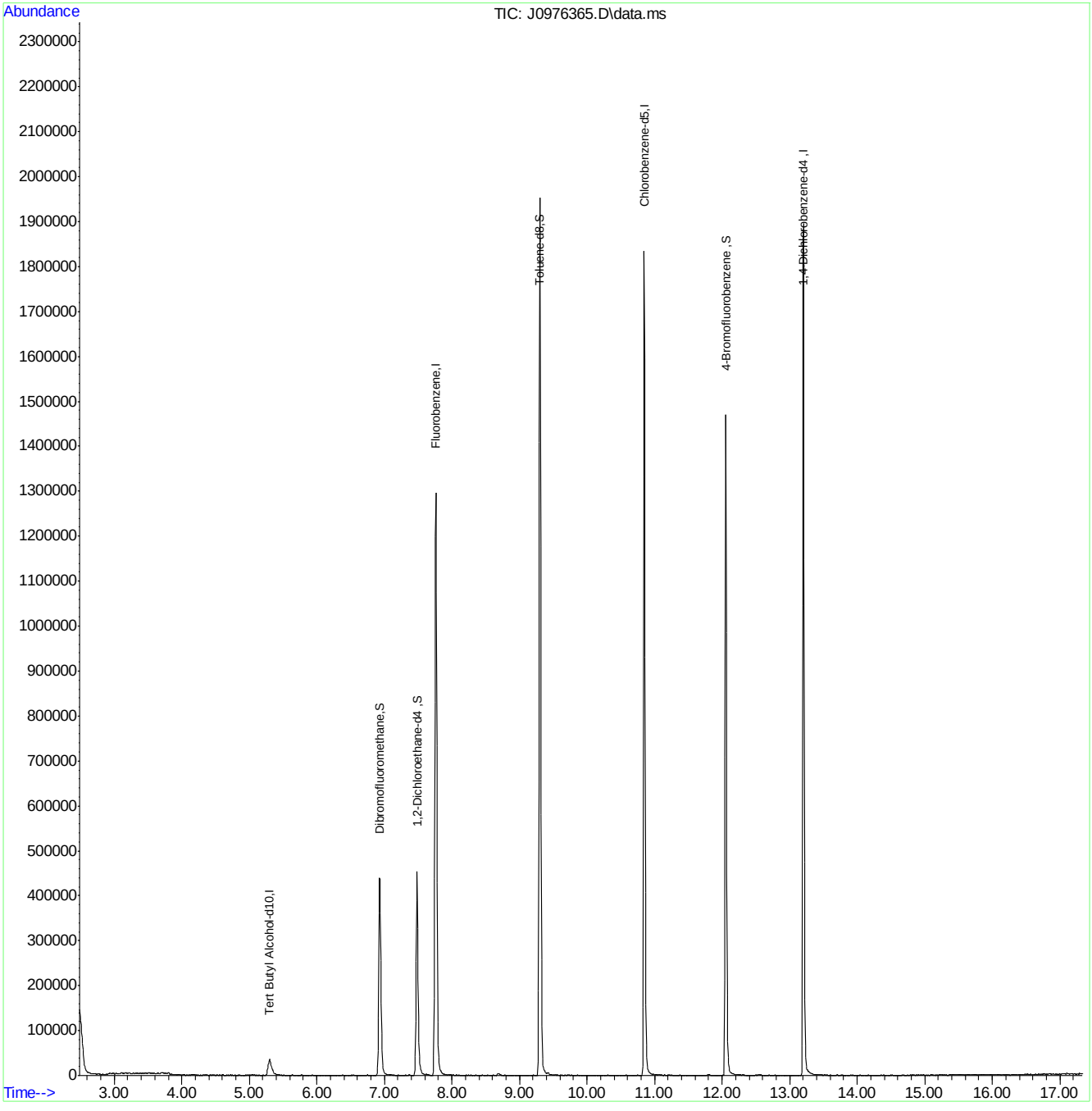
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976365.D
Acq On : 9 May 2016 1:52 pm
Operator : darshnap
Sample : fa33763-3 ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 07:59:51 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976362.D
Acq On : 9 May 2016 10:14 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 07:57:05 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1184946	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	894820	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	473961	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	71174	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	311985	51.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.78%			
46) 1,2-Dichloroethane-d4	7.476	65	365789	50.30	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.60%			
57) Toluene-d8	9.301	98	1184185	50.30	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.60%			
79) 4-Bromofluorobenzene	12.057	95	445876	52.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.02%			

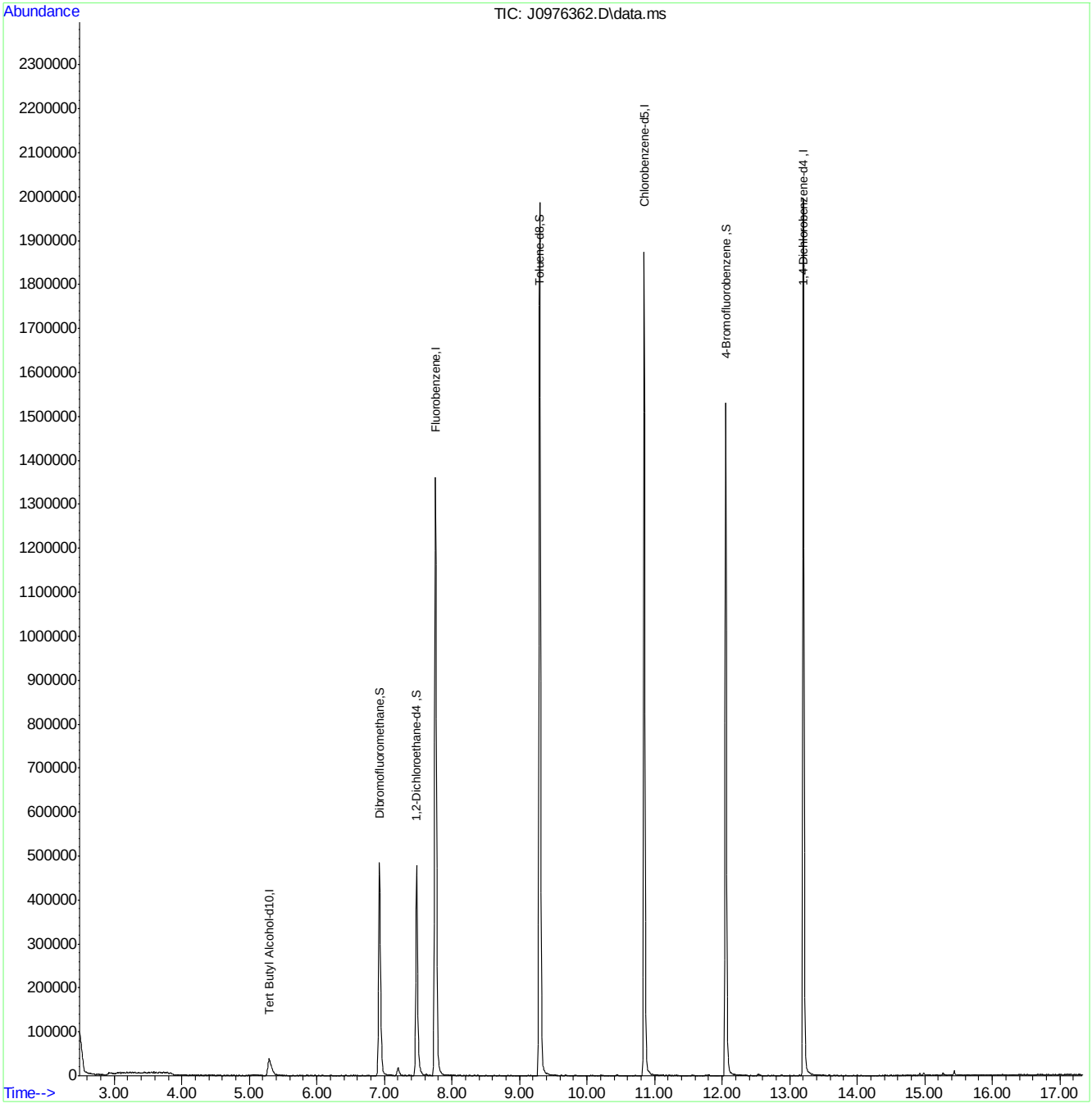
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976362.D
Acq On : 9 May 2016 10:14 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 07:57:05 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA33763

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/10/16 11:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976361.D
Acq On : 9 May 2016 9:51 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 10:12:12 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1309758	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1035972	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	580736	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	85697	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	332875	50.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.18%			
46) 1,2-Dichloroethane-d4	7.476	65	402187	50.04	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.08%			
57) Toluene-d8	9.301	98	1330620	48.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.64%			
79) 4-Bromofluorobenzene	12.051	95	532880	50.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	187017	23.20	ug/L	96
3) Chloromethane	2.895	50	233398	27.05	ug/L	96
4) Vinyl Chloride	3.047	62	240003	27.16	ug/L	99
5) 1,3-Butadiene	3.023	54	4595	0.70	ug/L #	69
6) Bromomethane	3.461	94	142916	22.05	ug/L	96
7) Chloroethane	3.613	64	111528	24.87	ug/L	95
8) Trichlorofluoromethane	3.838	101	321156m	29.29	ug/L	
9) Ethyl Ether	4.118	59	131777	26.02	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.349	67	238918	31.38	ug/L	99
11) 1,1-Dichloroethene	4.391	61	308670	32.55	ug/L	97
12) Freon 113	4.464	101	189995	28.98	ug/L	96
13) Carbon Disulfide	4.471	76	638712	32.35	ug/L	95
14) Iodomethane	4.586	142	298824	28.52	ug/L	99
15) Allyl chloride	4.921	41	221066	25.22	ug/L	97
16) Methylene Chloride	5.042	49	241882	28.20	ug/L	99
17) Acetone	5.061	58	48842	124.35	ug/L #	84
18) Methyl acetate	5.188	74	91479	119.60	ug/L	95
19) trans-1,2-Dichloroethene	5.225	61	279120	32.05	ug/L	97
20) Hexane	5.292	56	170188	30.45	ug/L	92
21) Methyl Tert Butyl Ether	5.334	73	447255	25.76	ug/L	85
22) Acetonitrile	5.590	40	60602	244.48	ug/L	97
23) Di-isopropyl ether	5.705	45	518228	26.08	ug/L	98
24) Chloroprene	5.864	53	240669	25.70	ug/L	98
25) 1,1-Dichloroethane	5.894	63	344937	29.66	ug/L	97
26) Acrylonitrile	5.918	53	186905	107.54	ug/L	99
27) ETBE	6.113	59	525711	26.42	ug/L	96
28) Vinyl acetate	6.101	43	1214080	120.62	ug/L	97
29) cis-1,2-Dichloroethene	6.472	96	190662	25.54	ug/L	95
30) 2,2-Dichloropropane	6.600	77	279230	30.77	ug/L	97
31) Bromochloromethane	6.685	128	85430	25.31	ug/L	97
32) Cyclohexane	6.734	56	318849	29.17	ug/L	94
33) Chloroform	6.734	83	342752	26.55	ug/L	98
34) Ethyl acetate	6.807	43	447253	110.51	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976361.D
Acq On : 9 May 2016 9:51 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 10:12:12 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	28361	23.87	ug/L	88
37) Carbon Tetrachloride	6.928	117	285945m	31.87	ug/L	
38) 1,1,1-Trichloroethane	6.989	97	304244	27.56	ug/L	96
39) 2-Butanone	7.020	43	200520	118.53	ug/L	93
40) 1,1-Dichloropropene	7.099	75	244221	27.40	ug/L	97
41) tert-Butyl Formate	7.184	59	1117002	275.33	ug/L	96
42) Propionitrile	7.330	54	147342	245.48	ug/L	92
43) Methacrylonitrile	7.354	41	651903	233.40	ug/L	96
44) Benzene	7.354	78	774074	28.53	ug/L	98
45) TAME	7.427	73	468190	26.07	ug/L	96
47) 1,2-Dichloroethane	7.543	62	244588	25.75	ug/L	97
48) Trichloroethene	7.932	95	199979	28.44	ug/L	97
49) Methylcyclohexane	7.950	83	366145	30.99	ug/L	100
50) Dibromomethane	8.358	93	99252	25.29	ug/L	95
51) 1,2-Dichloropropane	8.449	63	175703	25.77	ug/L	94
52) Bromodichloromethane	8.492	83	242296	27.73	ug/L	99
53) Methyl methacrylate	8.589	41	89952	24.96	ug/L	97
54) 2-Chloroethyl vinyl ether	9.003	63	459441	132.72	ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	282402	27.00	ug/L	97
58) Toluene	9.350	91	813272	27.10	ug/L	97
59) 2-Nitropropane	9.556	41	136941	114.64	ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	518461	120.94	ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	262876	27.90	ug/L	98
62) Tetrachloroethene	9.757	166	205922	25.67	ug/L	96
63) Ethyl methacrylate	9.836	69	141537	20.65	ug/L	95
64) 1,1,2-Trichloroethane	9.903	83	124104	25.35	ug/L	99
65) Dibromochloromethane	10.098	129	165134	26.54	ug/L	95
66) 1,3-Dichloropropane	10.183	76	233224	23.32	ug/L	96
67) 1,2-Dibromoethane	10.359	107	138398	24.95	ug/L	97
68) 2-hexanone	10.487	43	349368	123.25	ug/L	96
69) 1-Chlorohexane	10.797	91	256765	29.18	ug/L	97
70) Ethylbenzene	10.858	91	986220	28.83	ug/L	98
71) Chlorobenzene	10.864	112	559468	28.04	ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	185418	28.57	ug/L	97
73) m,p-Xylene	10.998	91	1512288	55.14	ug/L	99
74) o-Xylene	11.436	91	739187	27.96	ug/L	99
75) Styrene	11.485	104	569935	26.87	ug/L	99
76) Bromoform	11.546	173	105800	27.04	ug/L	97
77) Isopropylbenzene	11.740	105	924532	30.27	ug/L	100
80) cis-1,4-Dichloro-2-butene	12.087	53	41810	22.16	ug/L	95
81) n-Propylbenzene	12.160	91	1140947	30.96	ug/L	99
82) Bromobenzene	12.184	156	234046	26.98	ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.221	83	184186	26.31	ug/L	96
84) 1,3,5-Trimethylbenzene	12.343	105	825320	29.60	ug/L	100
85) 2-Chlorotoluene	12.349	91	807329	29.85	ug/L	98
86) trans-1,4-Dichloro-2-B...	12.397	53	40600	23.03	ug/L #	87
87) 1,2,3-Trichloropropane	12.379	110	49975	28.00	ug/L	98
88) Cyclohexanone	12.446	55	100777	898.01	ug/L	93
89) 4-Chlorotoluene	12.519	91	707764	29.23	ug/L	100
90) a-Methyl Styrene	12.683	118	10316	1.30	ug/L #	1

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976361.D
Acq On : 9 May 2016 9:51 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 10:12:12 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	467480	28.70	ug/L	96
92) 1,2,4-Trimethylbenzene	12.750	105	806948	28.98	ug/L	99
93) Pentachloroethane	12.738	167	142363	26.82	ug/L	96
94) sec-Butylbenzene	12.866	105	1036373	30.78	ug/L	99
95) 4-Isopropyltoluene	13.000	119	859327	30.42	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	421361	27.39	ug/L	95
97) 1,4-Dichlorobenzene	13.219	146	427033	26.15	ug/L	95
98) n-Butylbenzene	13.432	92	477665	29.34	ug/L	96
99) Benzyl Chloride	13.450	126	62540	26.83	ug/L #	87
100) 1,2-Dichlorobenzene	13.645	146	372653	25.31	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	22187	20.91	ug/L	88
102) Hexachlorobutadiene	14.928	225	179005	27.21	ug/L	96
103) 1,2,4-Trichlorobenzene	14.971	180	251075	23.35	ug/L	99
104) Naphthalene	15.257	128	386056	21.40	ug/L	100
105) 1,2,3-Trichlorobenzene	15.427	180	216775	22.75	ug/L	100
107) Ethanol	4.288	45	22919	577.11	ug/L	64
108) acrolein	4.750	56	105338	105.13	ug/L	99
109) Tert Butyl Alcohol	5.377	59	101444	244.22	ug/L	99
110) tert Amyl alcohol	7.573	59	75783	260.10	ug/L	99
111) Isobutyl alcohol	7.451	42	71329	436.46	ug/L	93
112) 1,4-Dioxane	8.668	88	21843	641.90	ug/L	91
113) 3,3-Dimethyl-1-butanol	10.432	57	406511	1138.90	ug/L	97

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

7.3.1

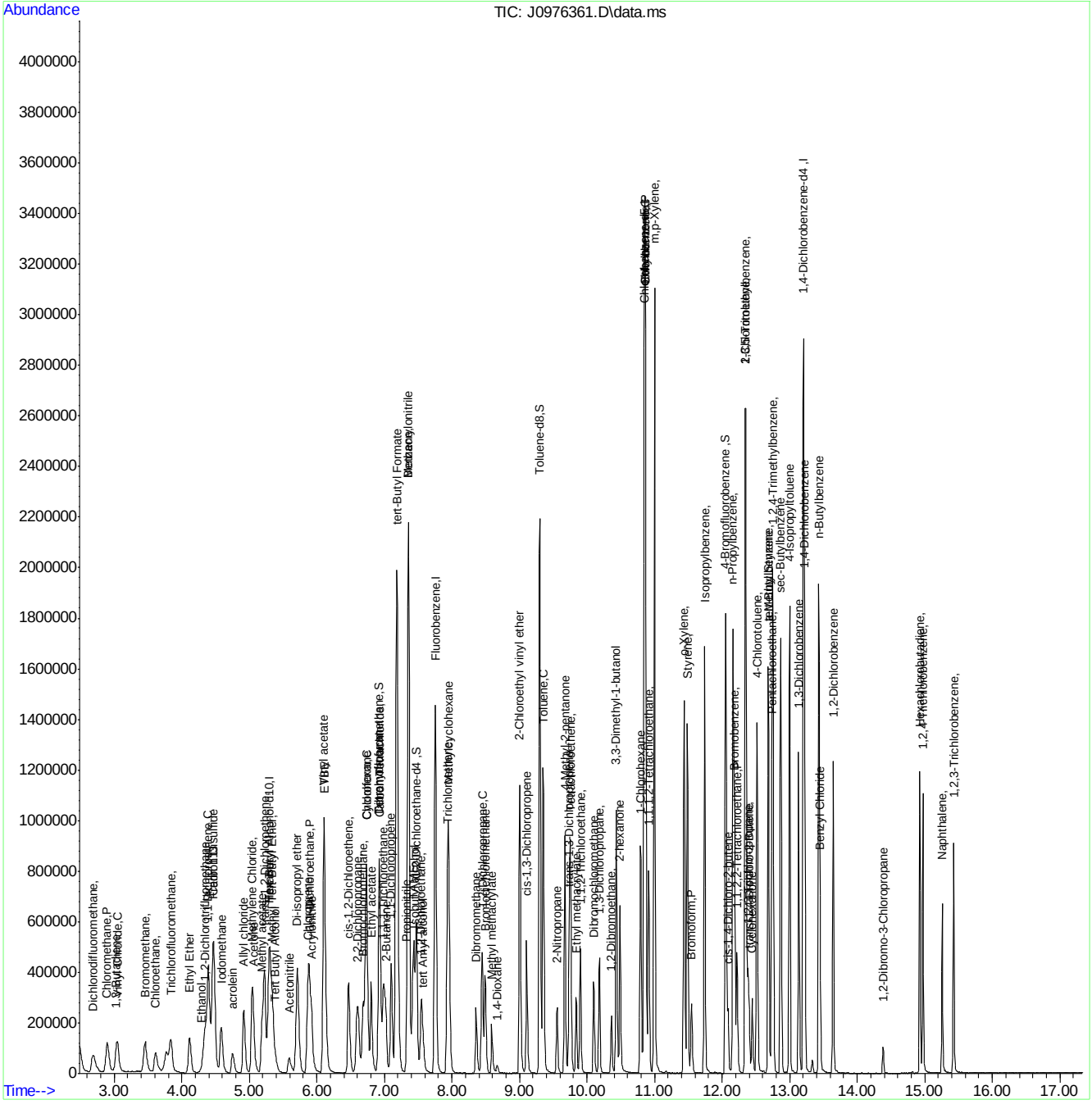
7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976361.D
Acq On : 9 May 2016 9:51 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 10:12:12 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



MSJ031516.M Tue May 10 10:31:08 2016 Page: 4

SGS ACCUTEST FA33763

Manual Integration Approval Summary

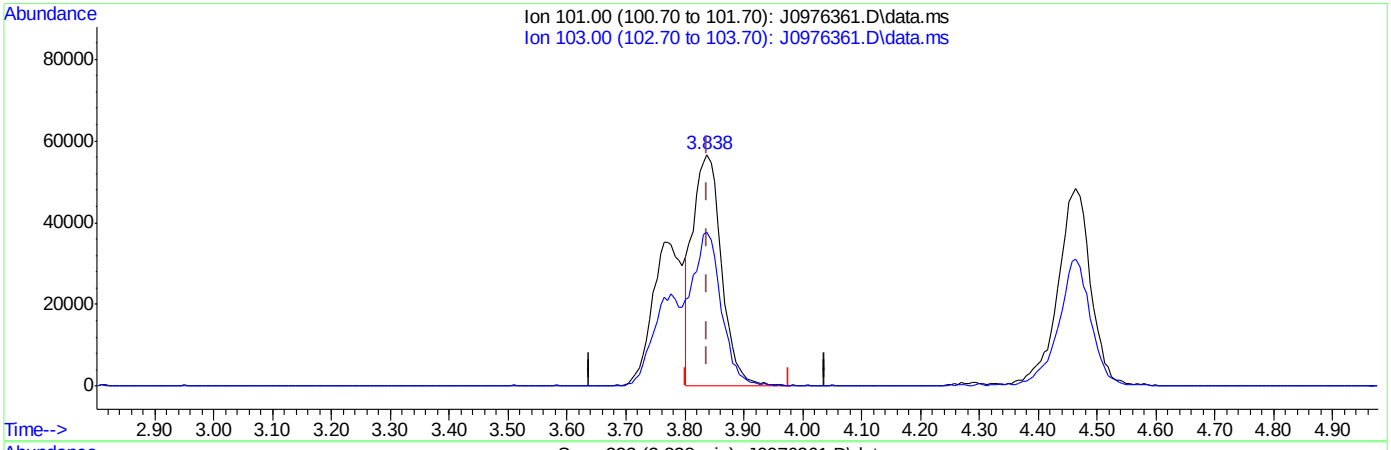
Sample Number:	VJ5290-BS	**Method:**	SW846 8260C
Lab FileID:	J0976361.D	**Analyst approved:**	05/10/16 10:41 Darshna Patel
Injection Time:	05/09/16 09:51	**Supervisor approved:**	05/10/16 11:06 Juan Garcia

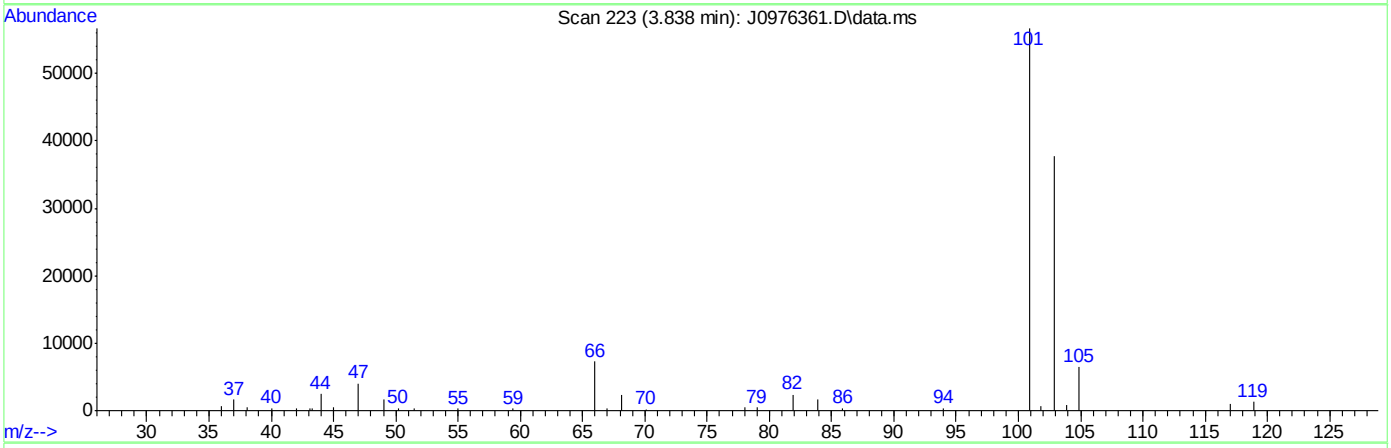
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976361.D
Acq On : 9 May 2016 9:51 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 10:11:53 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976361.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 17.45ug/L

response 191300

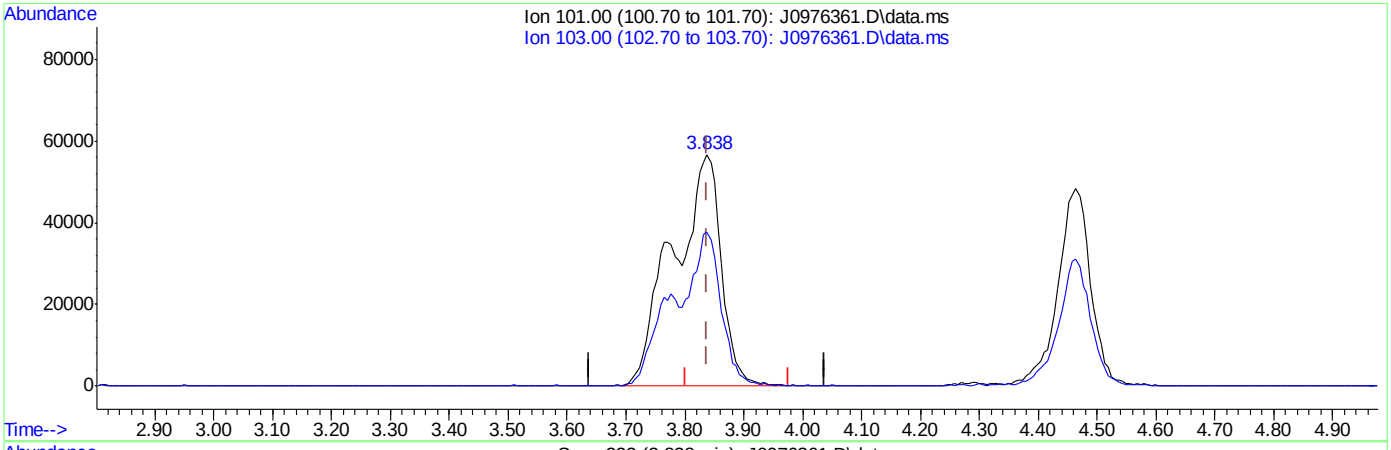
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	66.46
0.00	0.00	0.00
0.00	0.00	0.00

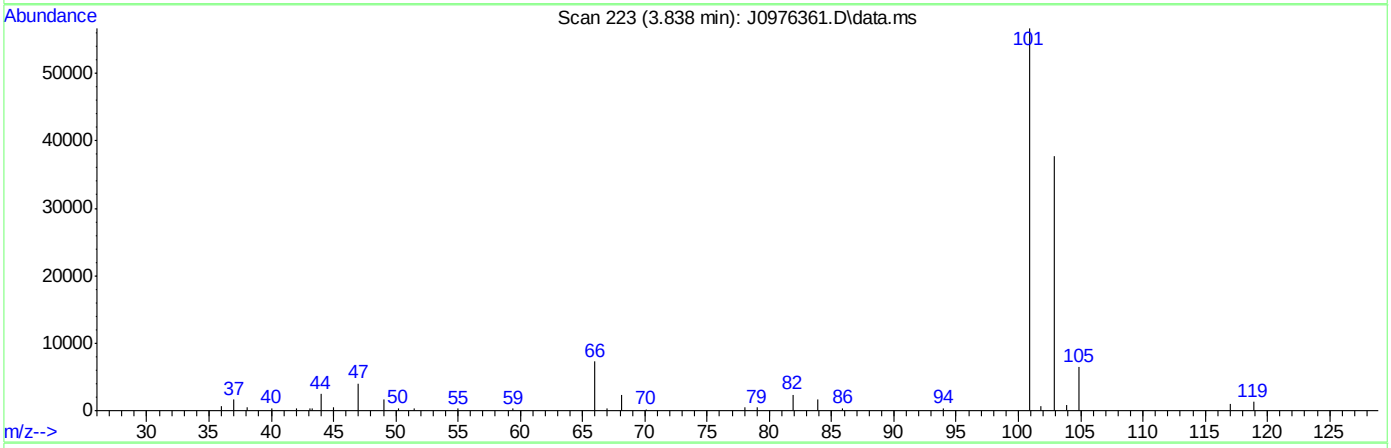
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976361.D
Acq On : 9 May 2016 9:51 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 10:11:53 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976361.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 29.29ug/L m

response 321156

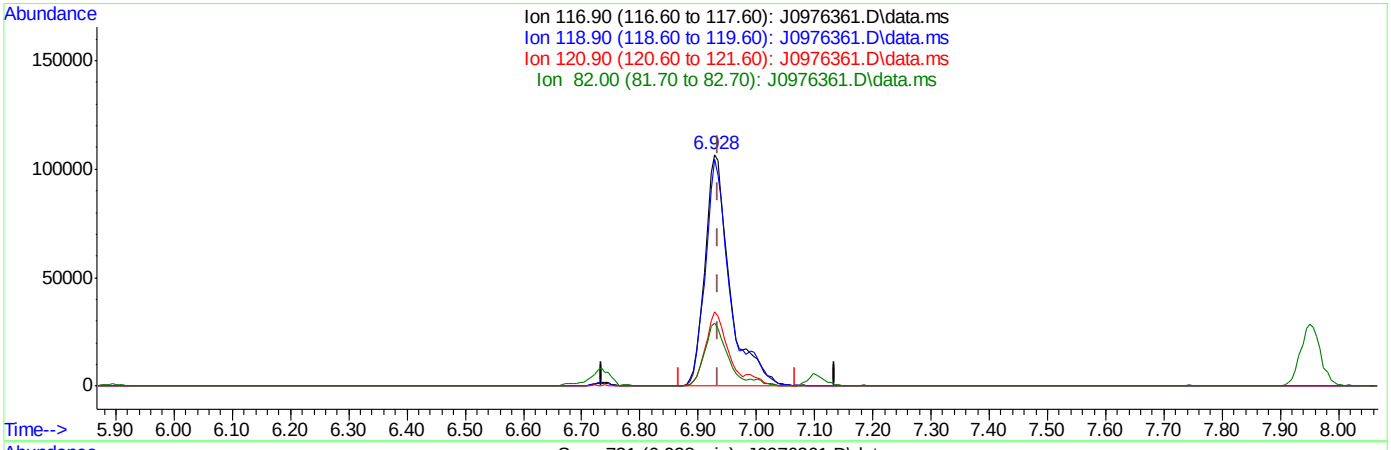
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	66.46
0.00	0.00	0.00
0.00	0.00	0.00

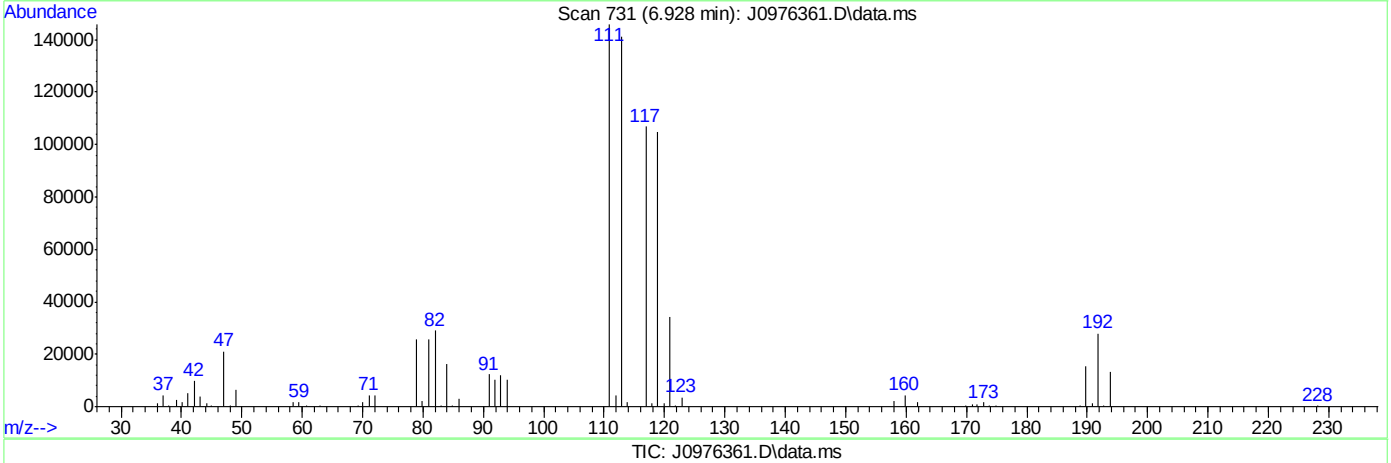
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976361.D
Acq On : 9 May 2016 9:51 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 10:11:53 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976361.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 35.56ug/L

response 319086

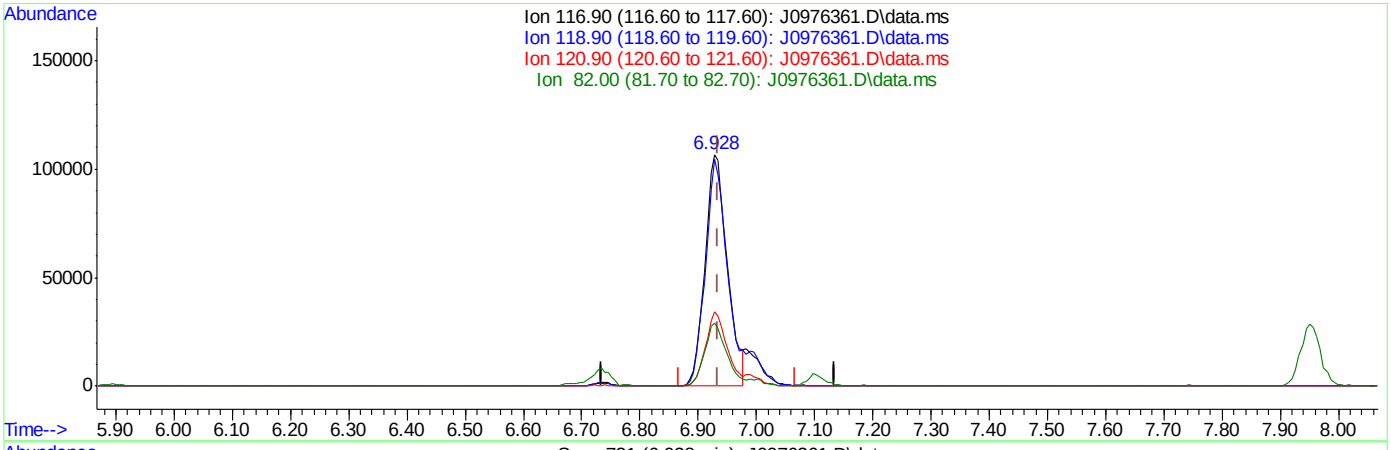
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.08
120.90	31.80	32.21
82.00	25.40	27.22

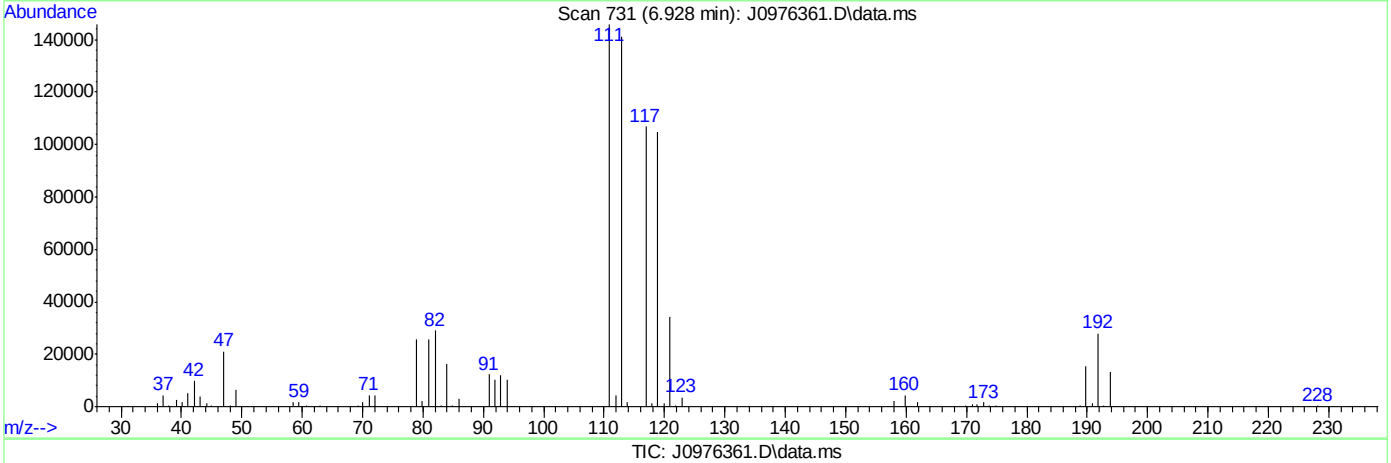
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976361.D
Acq On : 9 May 2016 9:51 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 10:11:53 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976361.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 31.87ug/L m

response 285945

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.08
120.90	31.80	32.21
82.00	25.40	27.22

SGS ACCUTEST FA33763

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/10/16 11:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976366.D
Acq On : 9 May 2016 2:15 pm
Operator : darshnap
Sample : fa33763-2ms ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 08:00:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1186081	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	979673	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	538815	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	75285	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	308659	51.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.58%			
46) 1,2-Dichloroethane-d4	7.476	65	357917	49.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.34%			
57) Toluene-d8	9.301	98	1226457	47.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.16%			
79) 4-Bromofluorobenzene	12.051	95	474213	48.66	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.682	85	156312	21.41	ug/L	100
3) Chloromethane	2.889	50	187873	24.04	ug/L	96
4) Vinyl Chloride	3.035	62	206095	25.75	ug/L	97
5) 1,3-Butadiene	3.023	54	19816	3.33	ug/L	90
6) Bromomethane	3.449	94	127478	21.70	ug/L	97
7) Chloroethane	3.607	64	107288	26.49	ug/L	99
8) Trichlorofluoromethane	3.832	101	285961m	28.80	ug/L	
9) Ethyl Ether	4.118	59	119286	26.01	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.349	67	209384	30.37	ug/L	97
11) 1,1-Dichloroethene	4.392	61	269083	31.33	ug/L	99
12) Freon 113	4.465	101	163227	27.49	ug/L	97
13) Carbon Disulfide	4.471	76	528825	29.57	ug/L	95
14) Iodomethane	4.580	142	258958	27.29	ug/L	98
15) Allyl chloride	4.915	41	198315	24.98	ug/L	95
16) Methylene Chloride	5.037	49	208465	26.82	ug/L	97
17) Acetone	5.067	58	43395	122.00	ug/L	90
18) Methyl acetate	5.189	74	77307	111.61	ug/L	99
19) trans-1,2-Dichloroethene	5.225	61	254306	32.24	ug/L	95
20) Hexane	5.292	56	153520	30.33	ug/L	99
21) Methyl Tert Butyl Ether	5.329	73	406404	25.85	ug/L	88
22) Acetonitrile	5.584	40	56495	251.73	ug/L	96
23) Di-isopropyl ether	5.712	45	466852	25.94	ug/L	96
24) Chloroprene	5.870	53	228235	26.92	ug/L	98
25) 1,1-Dichloroethane	5.894	63	306797	29.13	ug/L	97
26) Acrylonitrile	5.925	53	161315	102.49	ug/L	97
27) ETBE	6.113	59	443966	24.64	ug/L	97
28) Vinyl acetate	6.101	43	1021464	112.06	ug/L	97
29) cis-1,2-Dichloroethene	6.472	96	174224	25.77	ug/L	92
30) 2,2-Dichloropropane	6.600	77	240931	29.32	ug/L	99
31) Bromochloromethane	6.685	128	75370	24.66	ug/L	91
32) Cyclohexane	6.728	56	278781	28.16	ug/L	98
33) Chloroform	6.734	83	306612	26.22	ug/L	91
34) Ethyl acetate	6.801	43	379004	103.41	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976366.D
Acq On : 9 May 2016 2:15 pm
Operator : darshnap
Sample : fa33763-2ms ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 08:00:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.910	42	24985	23.21 ug/L	95
37) Carbon Tetrachloride	6.929	117	248799m	30.62 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	273997	27.41 ug/L	94
39) 2-Butanone	7.020	43	172815	112.82 ug/L	99
40) 1,1-Dichloropropene	7.099	75	215262	26.67 ug/L	97
41) tert-Butyl Formate	7.184	59	228622	62.16 ug/L	89
42) Propionitrile	7.330	54	129428	238.12 ug/L	86
43) Methacrylonitrile	7.354	41	588580	232.70 ug/L	96
44) Benzene	7.354	78	682091	27.76 ug/L	98
45) TAME	7.427	73	381919	23.48 ug/L	96
47) 1,2-Dichloroethane	7.549	62	210185	24.44 ug/L	96
48) Trichloroethene	7.932	95	172198	27.05 ug/L	95
49) Methylcyclohexane	7.951	83	311133	29.08 ug/L	98
50) Dibromomethane	8.358	93	86808	24.43 ug/L	97
51) 1,2-Dichloropropane	8.449	63	154046	24.95 ug/L	97
52) Bromodichloromethane	8.492	83	203087	25.67 ug/L	97
53) Methyl methacrylate	8.589	41	80712	24.73 ug/L	95
55) cis-1,3-Dichloropropene	9.106	75	233275	24.66 ug/L	97
58) Toluene	9.350	91	704859	24.84 ug/L	98
59) 2-Nitropropane	9.557	41	120395	106.54 ug/L	97
60) 4-Methyl-2-pentanone	9.672	43	471234	116.24 ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	225730	25.33 ug/L	96
62) Tetrachloroethene	9.757	166	180112	23.75 ug/L	97
63) Ethyl methacrylate	9.836	69	133312	20.57 ug/L	93
64) 1,1,2-Trichloroethane	9.903	83	111623	24.11 ug/L	97
65) Dibromochloromethane	10.098	129	135093	22.96 ug/L	94
66) 1,3-Dichloropropane	10.183	76	210889	22.30 ug/L	98
67) 1,2-Dibromoethane	10.360	107	122518	23.35 ug/L	95
68) 2-hexanone	10.487	43	323487	120.68 ug/L	94
69) 1-Chlorohexane	10.798	91	218755	26.29 ug/L	98
70) Ethylbenzene	10.859	91	882130	27.27 ug/L	100
71) Chlorobenzene	10.865	112	494494	26.20 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	162226	26.43 ug/L	97
73) m,p-Xylene	10.998	91	1328254	50.84 ug/L	99
74) o-Xylene	11.436	91	647479	25.90 ug/L	99
75) Styrene	11.485	104	458280	22.80 ug/L	97
76) Bromoform	11.546	173	74345	20.22 ug/L	99
77) Isopropylbenzene	11.741	105	804425	27.85 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	33245	18.99 ug/L	96
81) n-Propylbenzene	12.160	91	1008839	29.51 ug/L	99
82) Bromobenzene	12.185	156	206833	25.69 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	152629	23.49 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	713263	27.57 ug/L	98
85) 2-Chlorotoluene	12.349	91	706274	28.14 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.398	53	33208	20.33 ug/L #	87
87) 1,2,3-Trichloropropane	12.379	110	41660	25.16 ug/L	97
88) Cyclohexanone	12.446	55	14802	142.16 ug/L	97
89) 4-Chlorotoluene	12.519	91	614784	27.37 ug/L	98
90) a-Methyl Styrene	12.751	118	6398	0.87 ug/L #	1
91) tert-Butylbenzene	12.684	91	403048	26.67 ug/L	96

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976366.D
Acq On : 9 May 2016 2:15 pm
Operator : darshnap
Sample : fa33763-2ms ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 08:00:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

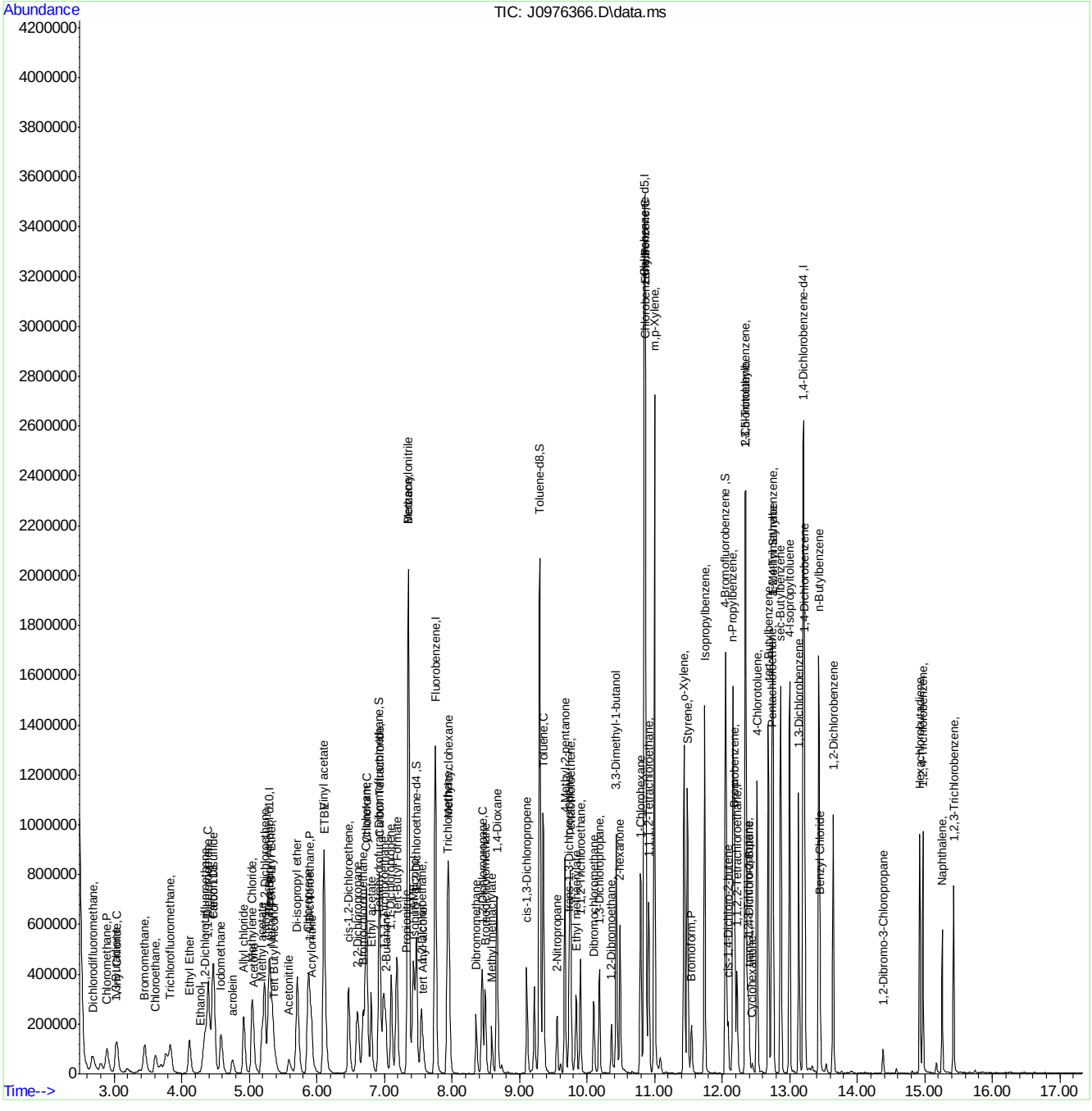
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.751	105	710824	27.51 ug/L	100
93) Pentachloroethane	12.738	167	131743	26.75 ug/L	95
94) sec-Butylbenzene	12.866	105	905400	28.98 ug/L	99
95) 4-Isopropyltoluene	13.000	119	748357	28.56 ug/L	98
96) 1,3-Dichlorobenzene	13.134	146	367325	25.73 ug/L	96
97) 1,4-Dichlorobenzene	13.219	146	371114	24.49 ug/L	95
98) n-Butylbenzene	13.432	92	403735	26.73 ug/L	96
99) Benzyl Chloride	13.450	126	50300	23.41 ug/L #	70
100) 1,2-Dichlorobenzene	13.645	146	325461	23.82 ug/L	96
101) 1,2-Dibromo-3-Chloropr...	14.381	75	20599	20.92 ug/L	97
102) Hexachlorobutadiene	14.928	225	149267	24.46 ug/L	96
103) 1,2,4-Trichlorobenzene	14.971	180	218569	21.91 ug/L	99
104) Naphthalene	15.257	128	335838	20.06 ug/L	100
105) 1,2,3-Trichlorobenzene	15.427	180	182440	20.64 ug/L	97
107) Ethanol	4.276	45	20011m	573.31 ug/L	
108) acrolein	4.757	56	74134	84.22 ug/L	87
109) Tert Butyl Alcohol	5.371	59	125587	344.15 ug/L	94
110) tert Amyl alcohol	7.573	59	64589	252.34 ug/L	93
111) Isobutyl alcohol	7.446	42	63308	441.15 ug/L #	90
112) 1,4-Dioxane	8.668	88	515448	17242.37 ug/L	95
113) 3,3-Dimethyl-1-butanol	10.433	57	377234	1203.04 ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976366.D
Acq On : 9 May 2016 2:15 pm
Operator : darshnap
Sample : fa33763-2ms ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 08:00:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



MSJ031516.M Tue May 10 08:16:53 2016 Page: 4

SGS ACCUTEST FA33763

Manual Integration Approval Summary

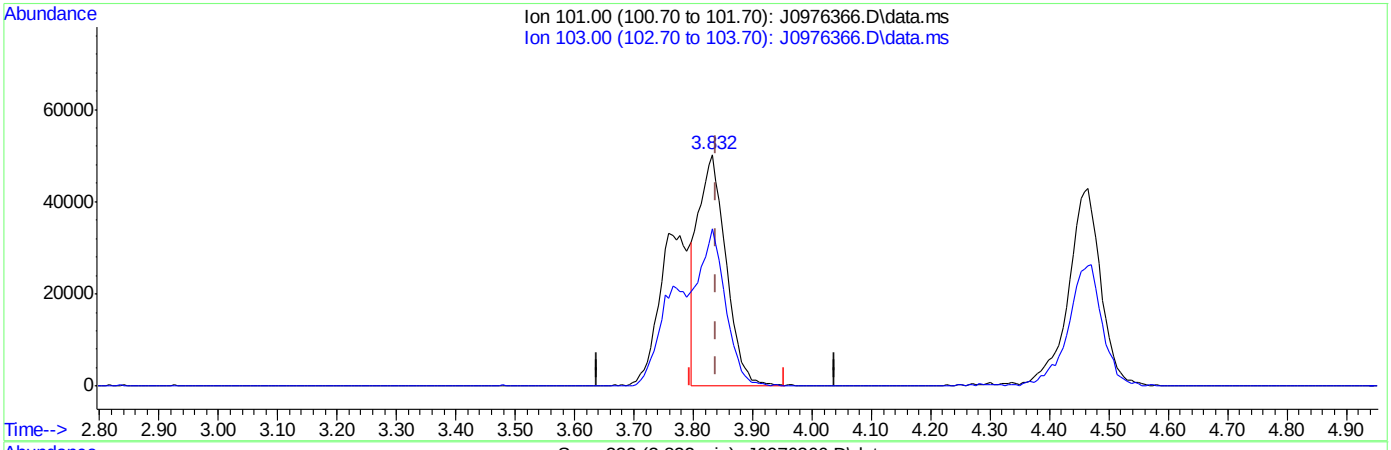
Sample Number:	FA33763-2MS	**Method:**	SW846 8260C
Lab FileID:	J0976366.D	**Analyst approved:**	05/10/16 10:41 Darshna Patel
Injection Time:	05/09/16 14:15	**Supervisor approved:**	05/10/16 11:06 Juan Garcia

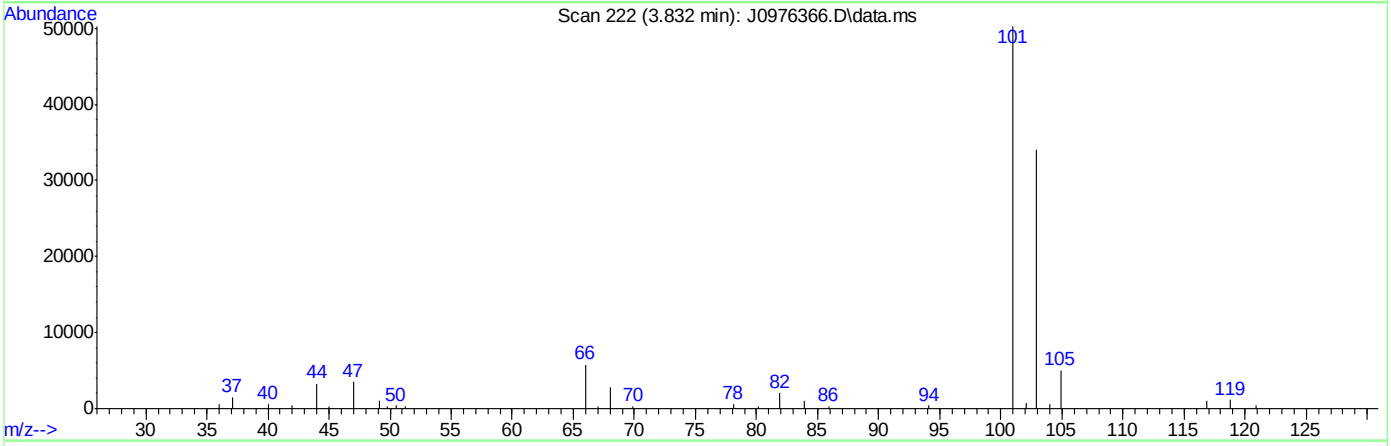
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976366.D
Acq On : 9 May 2016 2:15 pm
Operator : darshnap
Sample : fa33763-2ms ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:10 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976366.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.006) 16.77ug/L

response 166529

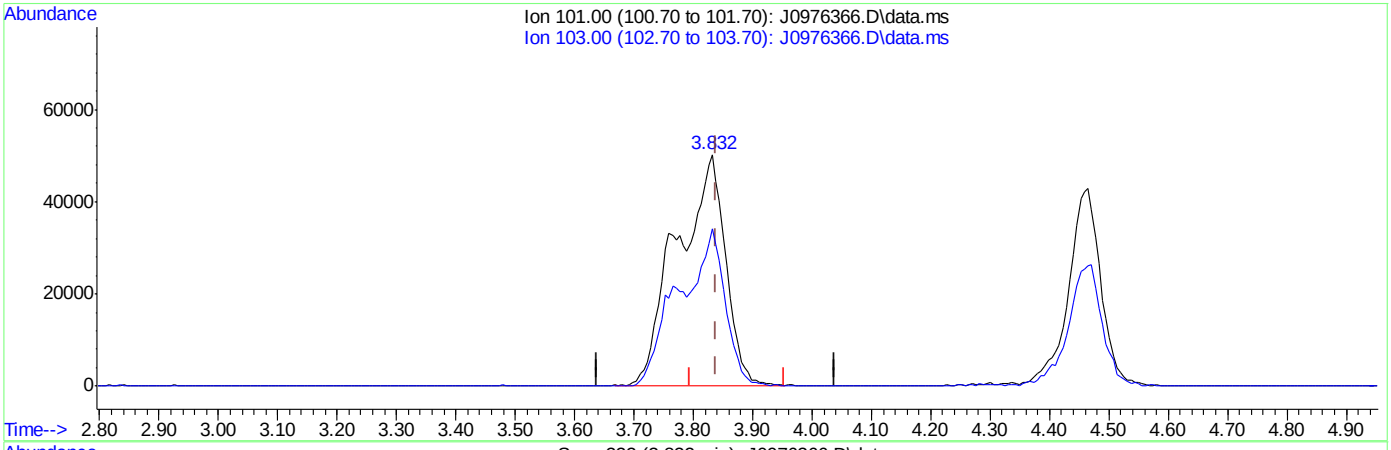
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	67.79
0.00	0.00	0.00
0.00	0.00	0.00

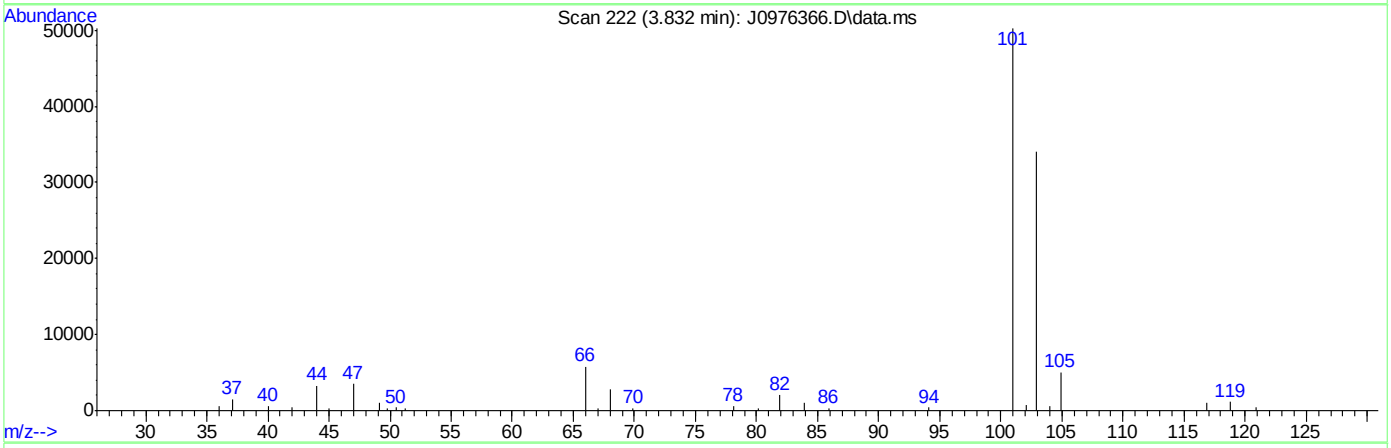
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976366.D
Acq On : 9 May 2016 2:15 pm
Operator : darshnap
Sample : fa33763-2ms ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:10 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976366.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.006) 28.80ug/L m

response 285961

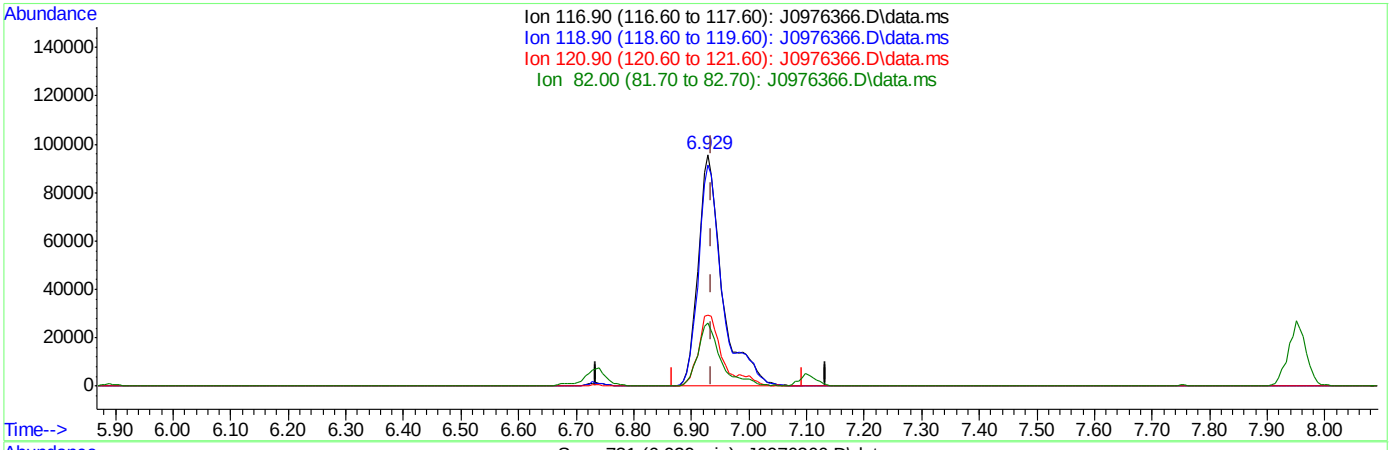
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	67.79
0.00	0.00	0.00
0.00	0.00	0.00

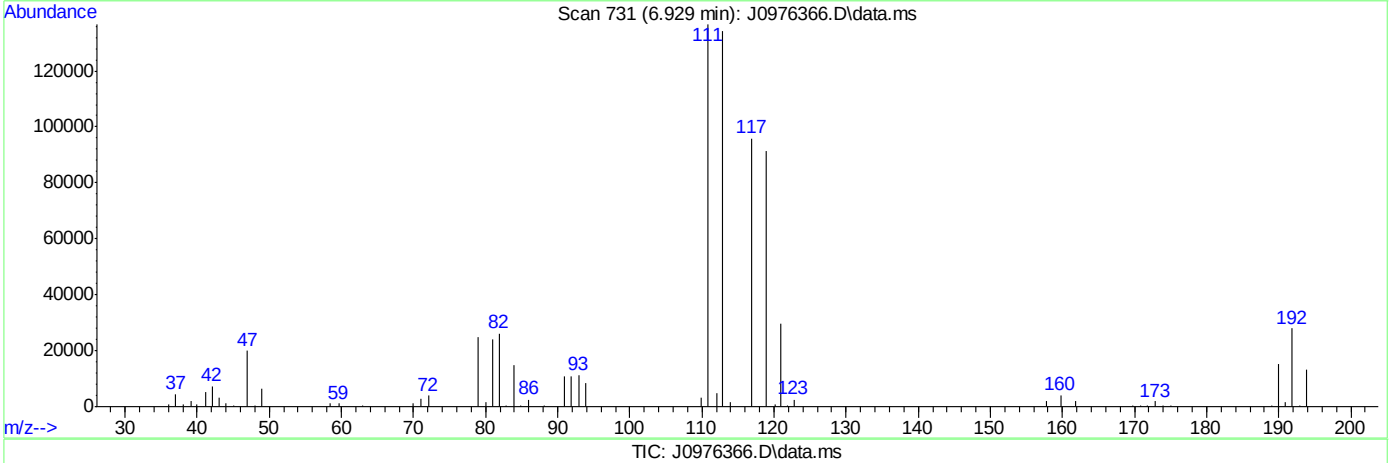
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976366.D
Acq On : 9 May 2016 2:15 pm
Operator : darshnap
Sample : fa33763-2ms ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:10 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976366.D\data.ms

(37) Carbon Tetrachloride ( )

6.929min (-0.006) 34.26ug/L

response 278400

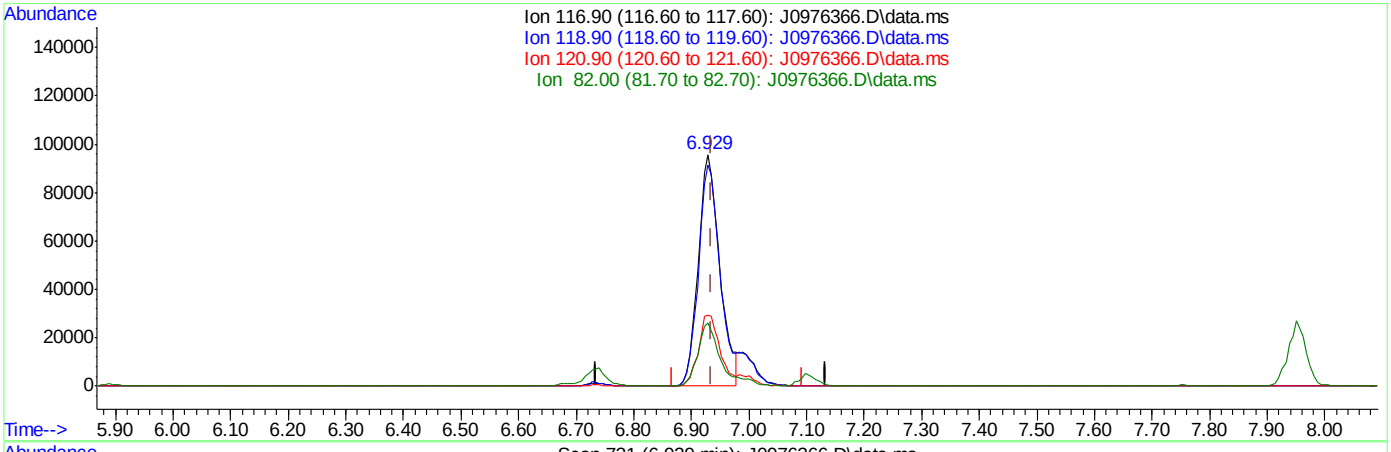
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.54
120.90	31.80	30.84
82.00	25.40	27.20

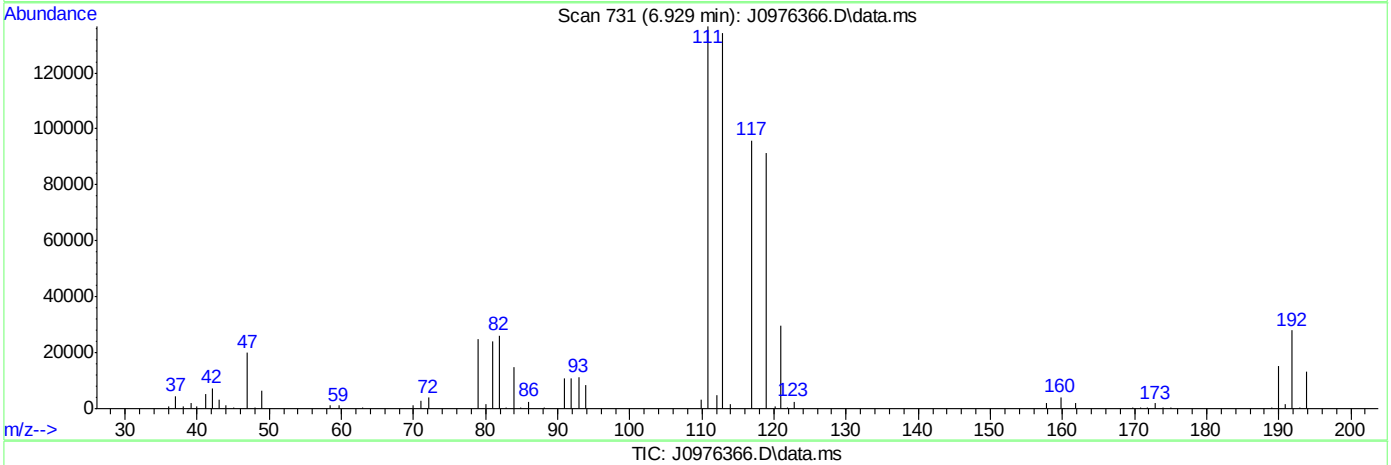
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976366.D
Acq On : 9 May 2016 2:15 pm
Operator : darshnap
Sample : fa33763-2ms ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:10 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976366.D\data.ms

(37) Carbon Tetrachloride ( )

6.929min (-0.006) 30.62ug/L m

response 248799

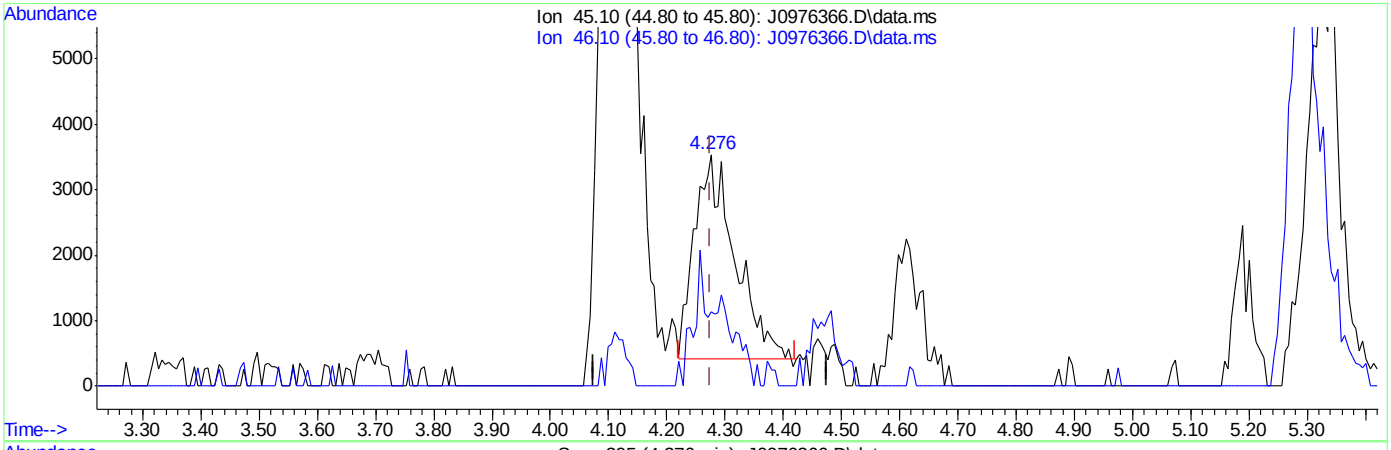
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.54
120.90	31.80	30.84
82.00	25.40	27.20

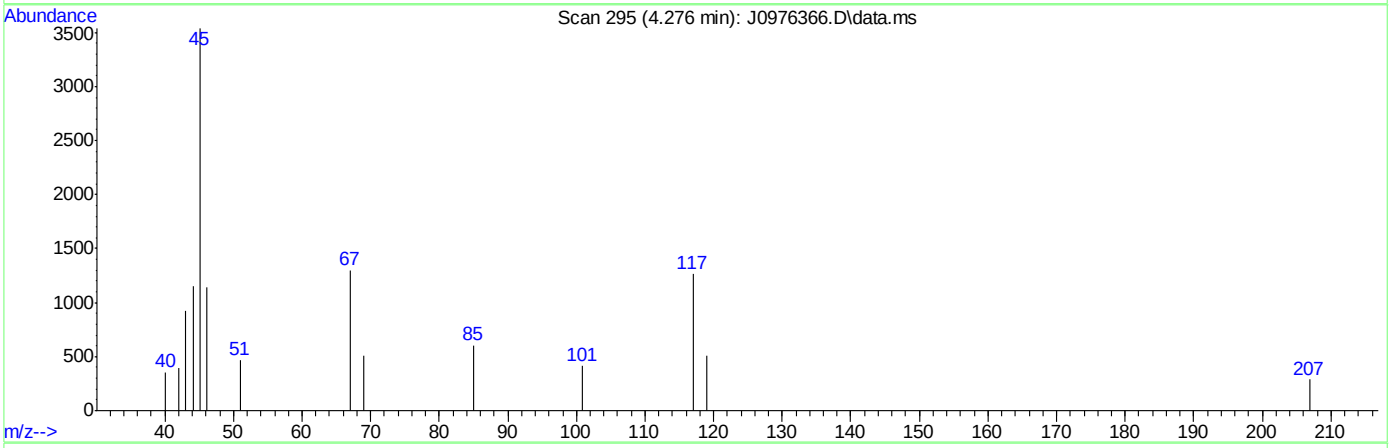
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976366.D
Acq On : 9 May 2016 2:15 pm
Operator : darshnap
Sample : fa33763-2ms ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:10 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976366.D\data.ms

(107) Ethanol

4.276min (+0.000) 422.25ug/L

response 15000

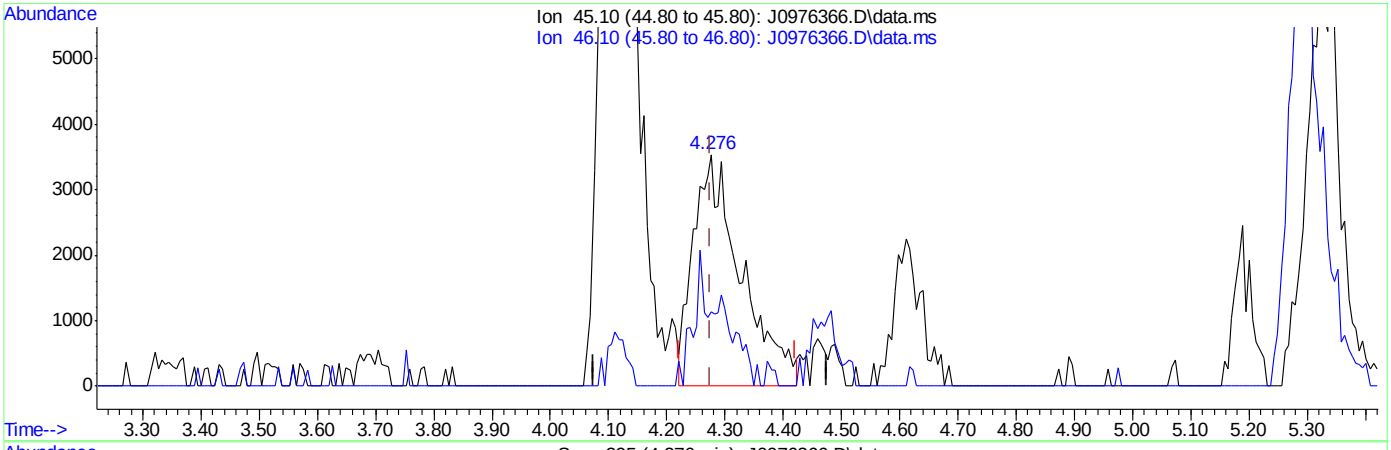
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	36.52
0.00	0.00	0.00
0.00	0.00	0.00

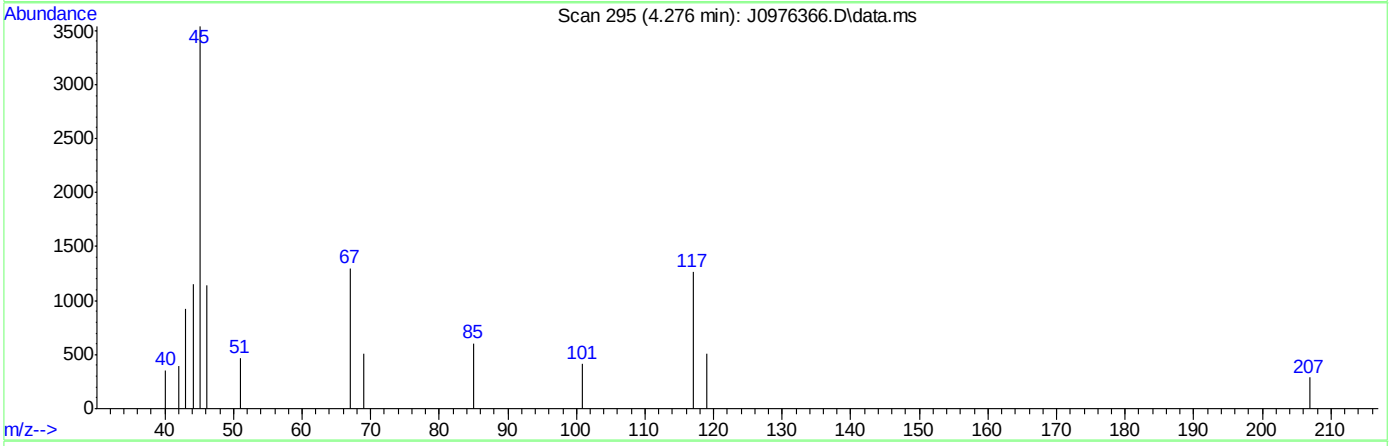
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976366.D
Acq On : 9 May 2016 2:15 pm
Operator : darshnap
Sample : fa33763-2ms ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:10 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976366.D\data.ms

(107) Ethanol

4.276min (+0.000) 573.31ug/L m

response 20011

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	32.22
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/10/16 11:06

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976367.D
Acq On : 9 May 2016 2:38 pm
Operator : darshnap
Sample : fa33763-2msd ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 08:01:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1240279	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1032821	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	560239	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	80943	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	320033	50.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.70%			
46) 1,2-Dichloroethane-d4	7.476	65	378003	49.66	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.32%			
57) Toluene-d8	9.301	98	1297440	47.75	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.50%			
79) 4-Bromofluorobenzene	12.057	95	516254	50.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	154669	20.26	ug/L	93
3) Chloromethane	2.901	50	198626	24.31	ug/L	100
4) Vinyl Chloride	3.041	62	209861	25.08	ug/L	98
5) 1,3-Butadiene	3.035	54	32274	5.19	ug/L	92
6) Bromomethane	3.461	94	134355	21.88	ug/L	97
7) Chloroethane	3.625	64	107008	25.21	ug/L	96
8) Trichlorofluoromethane	3.844	101	281680m	27.13	ug/L	
9) Ethyl Ether	4.124	59	127707	26.63	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.355	67	215644	29.91	ug/L	99
11) 1,1-Dichloroethene	4.404	61	281667	31.36	ug/L	99
12) Freon 113	4.465	101	161735	26.05	ug/L	95
13) Carbon Disulfide	4.477	76	517688	27.69	ug/L	94
14) Iodomethane	4.586	142	266138	26.82	ug/L	97
15) Allyl chloride	4.927	41	188097	22.66	ug/L	97
16) Methylene Chloride	5.042	49	216888	26.68	ug/L	98
17) Acetone	5.079	58	47017	126.41	ug/L #	77
18) Methyl acetate	5.195	74	84455	116.60	ug/L	92
19) trans-1,2-Dichloroethene	5.231	61	254015	30.80	ug/L	98
20) Hexane	5.298	56	147713	27.91	ug/L	90
21) Methyl Tert Butyl Ether	5.341	73	439406	26.73	ug/L	84
22) Acetonitrile	5.602	40	62470	266.32	ug/L	90
23) Di-isopropyl ether	5.718	45	494836	26.29	ug/L	98
24) Chloroprene	5.870	53	229784	25.92	ug/L	99
25) 1,1-Dichloroethane	5.894	63	315700	28.67	ug/L	100
26) Acrylonitrile	5.925	53	173424	105.37	ug/L	95
27) ETBE	6.119	59	476486	25.28	ug/L	97
28) Vinyl acetate	6.107	43	1095422	114.92	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	183365	25.94	ug/L	96
30) 2,2-Dichloropropane	6.606	77	246063	28.63	ug/L	95
31) Bromochloromethane	6.685	128	79129	24.76	ug/L	97
32) Cyclohexane	6.740	56	283934	27.43	ug/L	98
33) Chloroform	6.740	83	318202	26.03	ug/L	98
34) Ethyl acetate	6.807	43	432600	112.88	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976367.D
Acq On : 9 May 2016 2:38 pm
Operator : darshnap
Sample : fa33763-2msd ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 08:01:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	29758	26.51 ug/L	88
37) Carbon Tetrachloride	6.934	117	232782m	27.40 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	281043	26.89 ug/L	98
39) 2-Butanone	7.026	43	197422	123.22 ug/L	99
40) 1,1-Dichloropropene	7.105	75	220402	26.11 ug/L	96
41) tert-Butyl Formate	7.190	59	199551	51.88 ug/L	89
42) Propionitrile	7.330	54	149760	263.49 ug/L	79
43) Methacrylonitrile	7.360	41	650511	245.95 ug/L	98
44) Benzene	7.360	78	712110	27.71 ug/L	100
45) TAME	7.433	73	416928	24.52 ug/L	97
47) 1,2-Dichloroethane	7.549	62	219140	24.37 ug/L	97
48) Trichloroethene	7.932	95	182318	27.38 ug/L	93
49) Methylcyclohexane	7.957	83	310770	27.78 ug/L	97
50) Dibromomethane	8.358	93	93860	25.26 ug/L	95
51) 1,2-Dichloropropane	8.449	63	161807	25.07 ug/L	91
52) Bromodichloromethane	8.498	83	202633	24.49 ug/L	99
53) Methyl methacrylate	8.589	41	91617	26.85 ug/L	94
55) cis-1,3-Dichloropropene	9.112	75	230103	23.28 ug/L	94
58) Toluene	9.356	91	739830	24.73 ug/L	99
59) 2-Nitropropane	9.556	41	131939	110.77 ug/L	95
60) 4-Methyl-2-pentanone	9.672	43	533929	124.93 ug/L	98
61) trans-1,3-Dichloropropene	9.739	75	221087	23.52 ug/L	98
62) Tetrachloroethene	9.757	166	185546	23.20 ug/L	98
63) Ethyl methacrylate	9.836	69	147179	21.54 ug/L	92
64) 1,1,2-Trichloroethane	9.903	83	115241	23.62 ug/L	98
65) Dibromochloromethane	10.104	129	134104	21.62 ug/L	98
66) 1,3-Dichloropropane	10.183	76	223841	22.45 ug/L	96
67) 1,2-Dibromoethane	10.360	107	126601	22.89 ug/L	99
68) 2-hexanone	10.487	43	366874	129.82 ug/L	96
69) 1-Chlorohexane	10.798	91	227942	25.98 ug/L	97
70) Ethylbenzene	10.858	91	921741	27.02 ug/L	99
71) Chlorobenzene	10.864	112	520696	26.17 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.913	131	163239	25.23 ug/L	97
73) m,p-Xylene	10.998	91	1389981	50.43 ug/L	99
74) o-Xylene	11.436	91	676058	25.65 ug/L	99
75) Styrene	11.485	104	487463	23.01 ug/L	96
76) Bromoform	11.546	173	78670	20.29 ug/L	97
77) Isopropylbenzene	11.741	105	847108	27.82 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.087	53	32807	18.02 ug/L	90
81) n-Propylbenzene	12.160	91	1033974	29.09 ug/L	99
82) Bromobenzene	12.185	156	213884	25.55 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.221	83	170272	25.21 ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	737126	27.40 ug/L	99
85) 2-Chlorotoluene	12.349	91	731401	28.03 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.404	53	33741	19.87 ug/L #	86
87) 1,2,3-Trichloropropane	12.385	110	44980	26.13 ug/L	98
88) Cyclohexanone	12.452	55	16595	153.29 ug/L	93
89) 4-Chlorotoluene	12.519	91	645398	27.63 ug/L	98
90) a-Methyl Styrene	12.677	118	2149	0.28 ug/L #	1
91) tert-Butylbenzene	12.683	91	417759	26.58 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976367.D
Acq On : 9 May 2016 2:38 pm
Operator : darshnap
Sample : fa33763-2msd ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 08:01:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.750	105	730298	27.18 ug/L	99
93) Pentachloroethane	12.738	167	132862	25.93 ug/L	97
94) sec-Butylbenzene	12.866	105	925729	28.50 ug/L	99
95) 4-Isopropyltoluene	13.000	119	754695	27.70 ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	386073	26.01 ug/L	96
97) 1,4-Dichlorobenzene	13.219	146	391045	24.82 ug/L	95
98) n-Butylbenzene	13.432	92	418794	26.66 ug/L	96
99) Benzyl Chloride	13.450	126	51660	23.14 ug/L #	81
100) 1,2-Dichlorobenzene	13.645	146	341425	24.03 ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	19762	19.33 ug/L	89
102) Hexachlorobutadiene	14.928	225	158233	24.93 ug/L	96
103) 1,2,4-Trichlorobenzene	14.971	180	232484	22.41 ug/L	98
104) Naphthalene	15.257	128	378449	21.75 ug/L	97
105) 1,2,3-Trichlorobenzene	15.427	180	196793	21.41 ug/L	96
107) Ethanol	4.294	45	23646m	634.68 ug/L	
108) acrolein	4.763	56	83134	87.84 ug/L	95
109) Tert Butyl Alcohol	5.377	59	142380	362.90 ug/L	99
110) tert Amyl alcohol	7.573	59	73967	268.78 ug/L	100
111) Isobutyl alcohol	7.452	42	65948	426.84 ug/L	90
112) 1,4-Dioxane	8.668	88	587274	18271.83 ug/L	93
113) 3,3-Dimethyl-1-butanol	10.433	57	429685	1274.53 ug/L	98

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

7.4.2

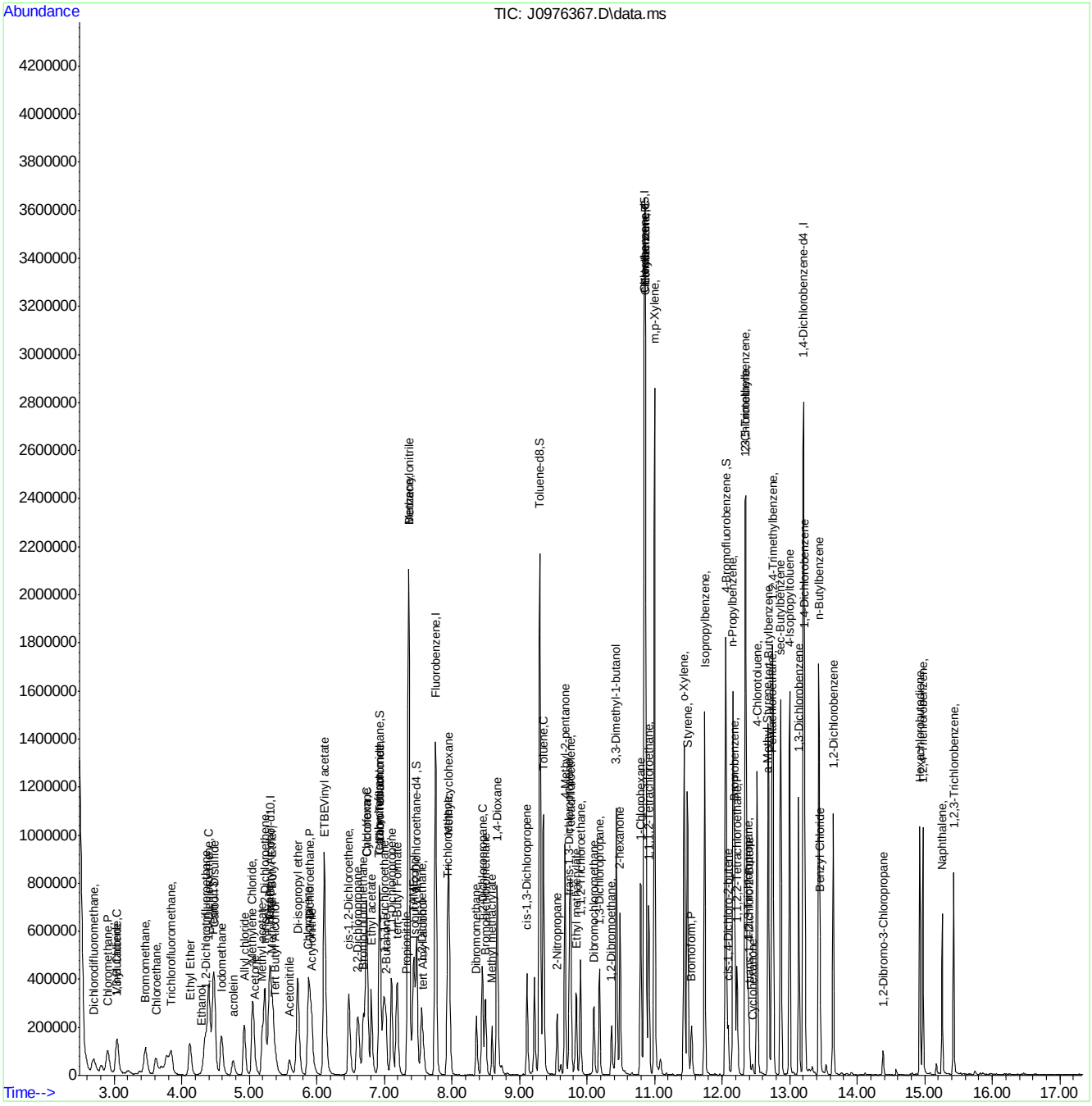
7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976367.D
Acq On : 9 May 2016 2:38 pm
Operator : darshnap
Sample : fa33763-2msd ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 08:01:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



MSJ031516.M Tue May 10 08:16:55 2016 Page: 4

Manual Integration Approval Summary

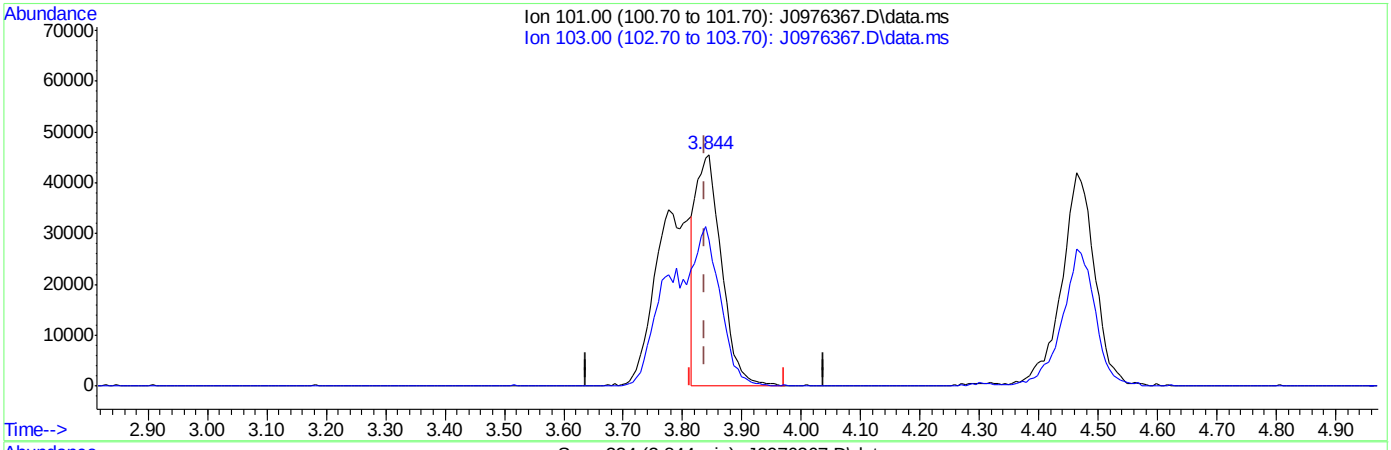
Sample Number:	FA33763-2MSD	**Method:**	SW846 8260C
Lab FileID:	J0976367.D	**Analyst approved:**	05/10/16 10:41 Darshna Patel
Injection Time:	05/09/16 14:38	**Supervisor approved:**	05/10/16 11:06 Juan Garcia

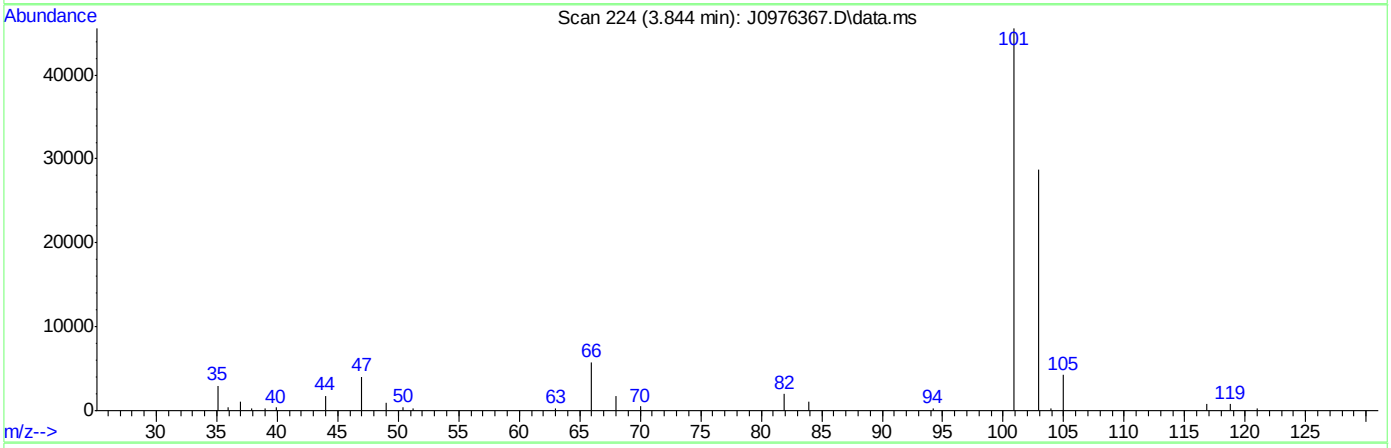
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976367.D
Acq On : 9 May 2016 2:38 pm
Operator : darshnap
Sample : fa33763-2msd ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976367.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 13.45ug/L

response 139622

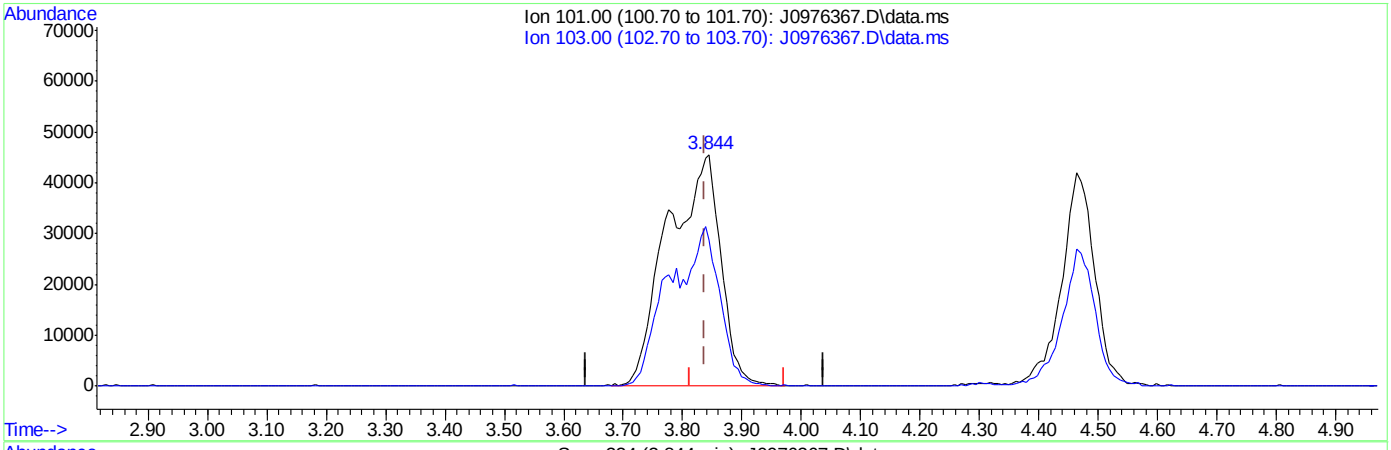
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.45
0.00	0.00	0.00
0.00	0.00	0.00

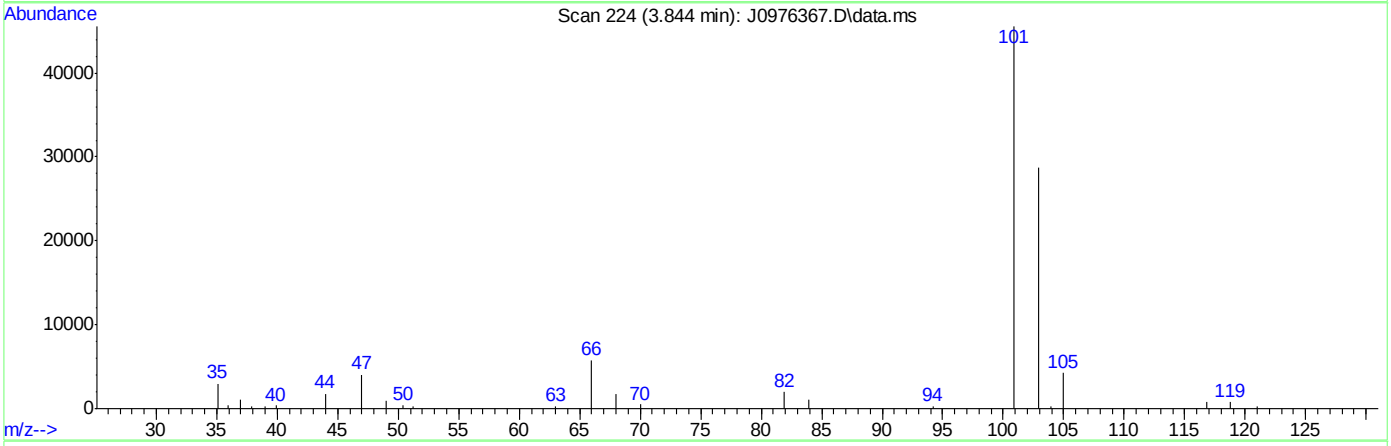
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976367.D
Acq On : 9 May 2016 2:38 pm
Operator : darshnap
Sample : fa33763-2msd ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976367.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 27.13ug/L m

response 281680

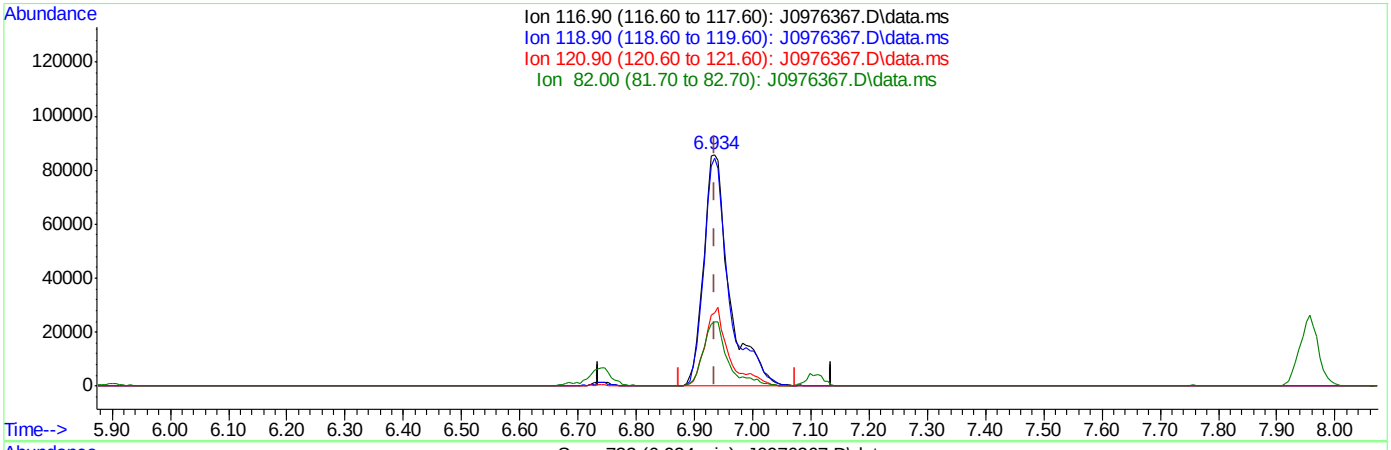
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.00
0.00	0.00	0.00
0.00	0.00	0.00

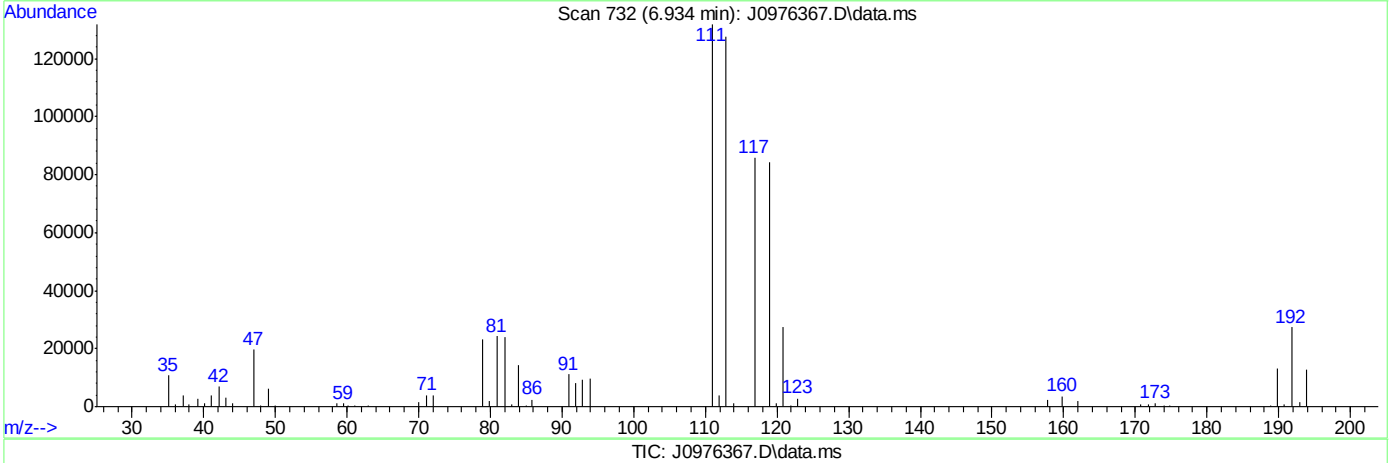
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976367.D
Acq On : 9 May 2016 2:38 pm
Operator : darshnap
Sample : fa33763-2msd ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976367.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 31.43ug/L

response 267024

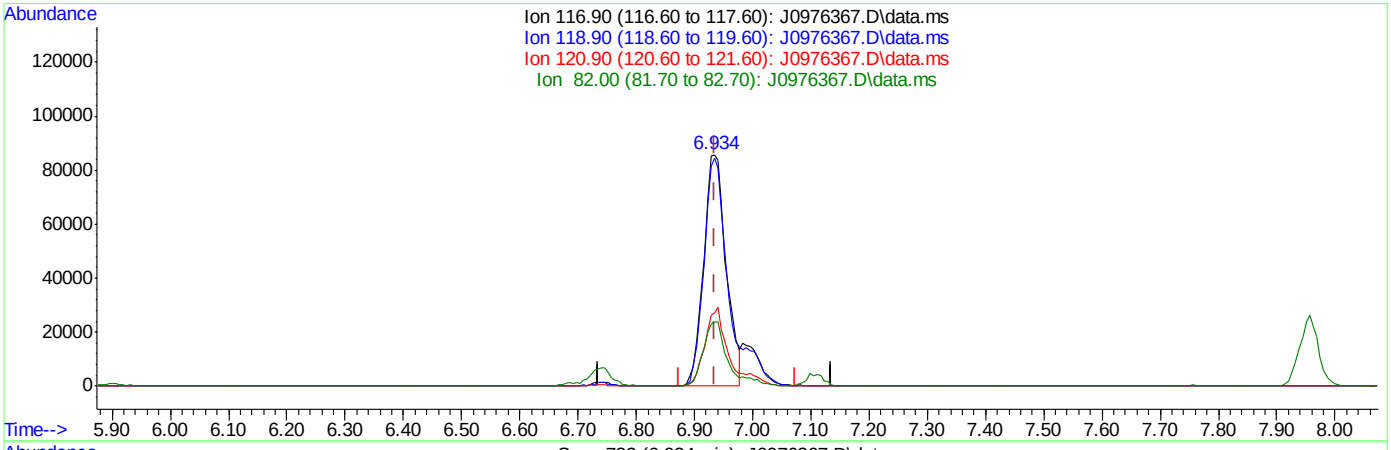
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.41
120.90	31.80	31.85
82.00	25.40	27.84

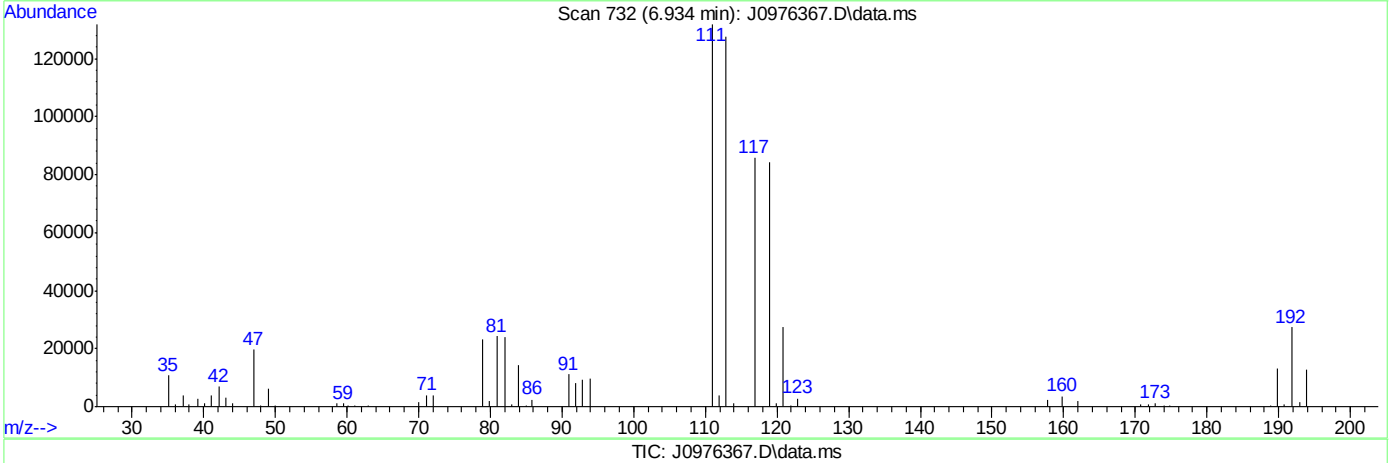
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976367.D
Acq On : 9 May 2016 2:38 pm
Operator : darshnap
Sample : fa33763-2msd ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.934min (-0.001) 27.40ug/L m

response 232782

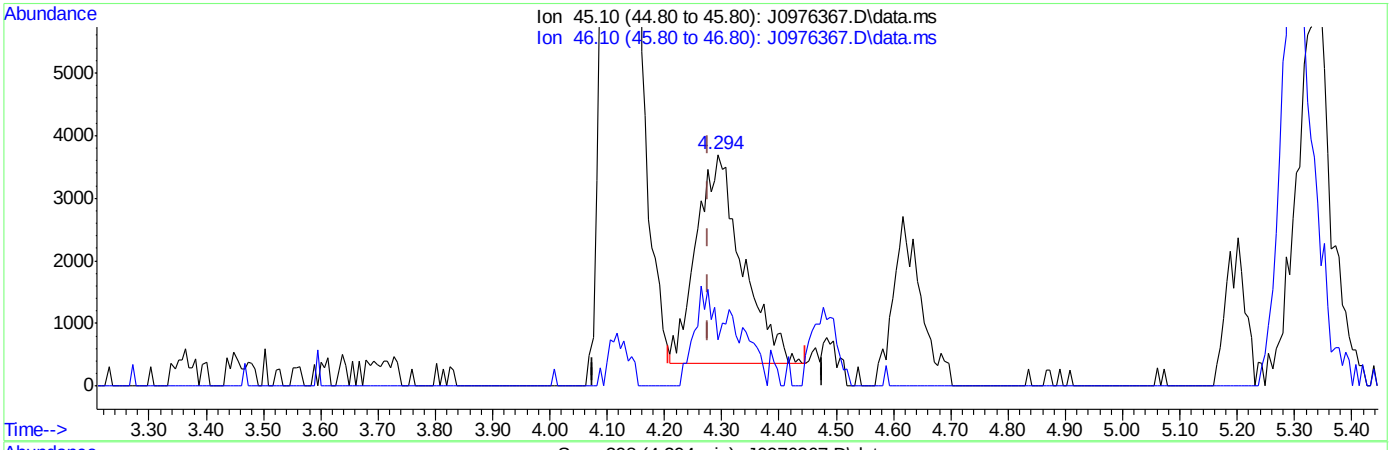
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.41
120.90	31.80	31.85
82.00	25.40	27.84

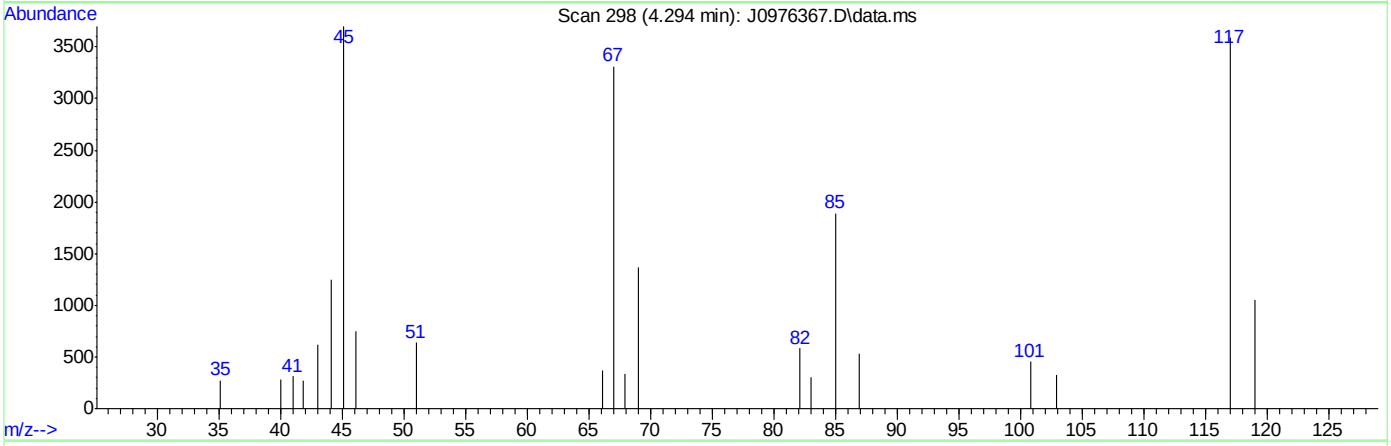
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976367.D
Acq On : 9 May 2016 2:38 pm
Operator : darshnap
Sample : fa33763-2msd ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976367.D\data.ms

(107) Ethanol

4.294min (+0.018) 489.06ug/L

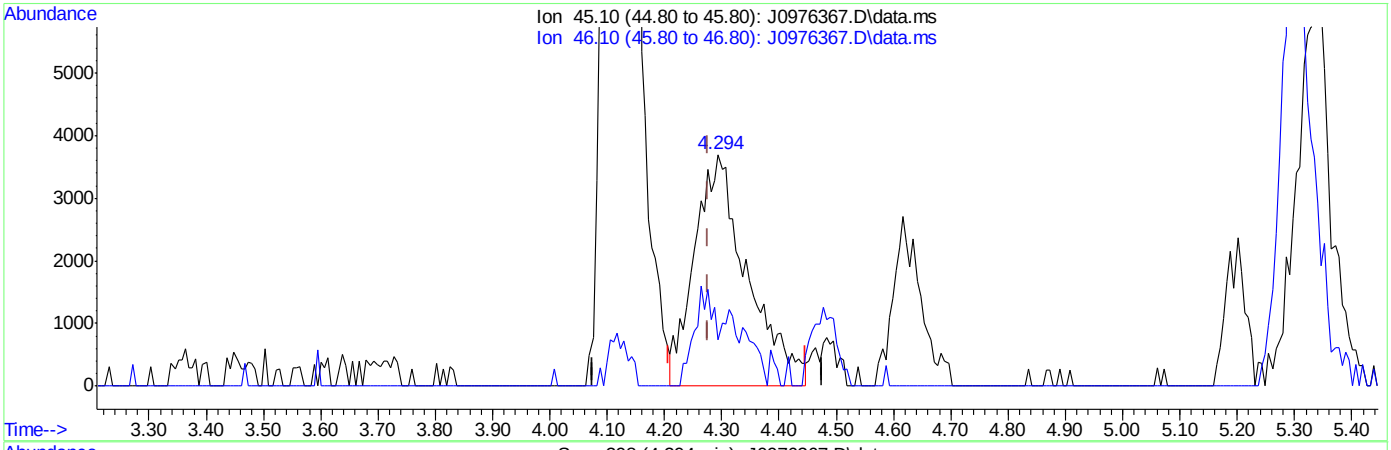
response 18535

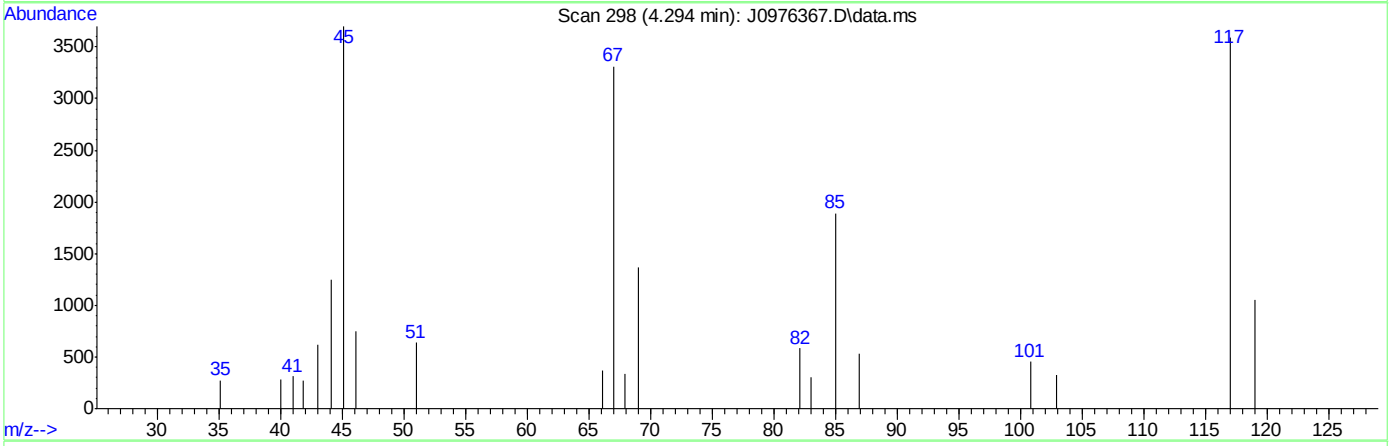
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	22.31
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976367.D
Acq On : 9 May 2016 2:38 pm
Operator : darshnap
Sample : fa33763-2msd ma Inst : MSVOA6
Misc : MS33817,VJ5290,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 07:49:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976367.D\data.ms

(107) Ethanol

4.294min (+0.018) 634.68ug/L m

response 23646

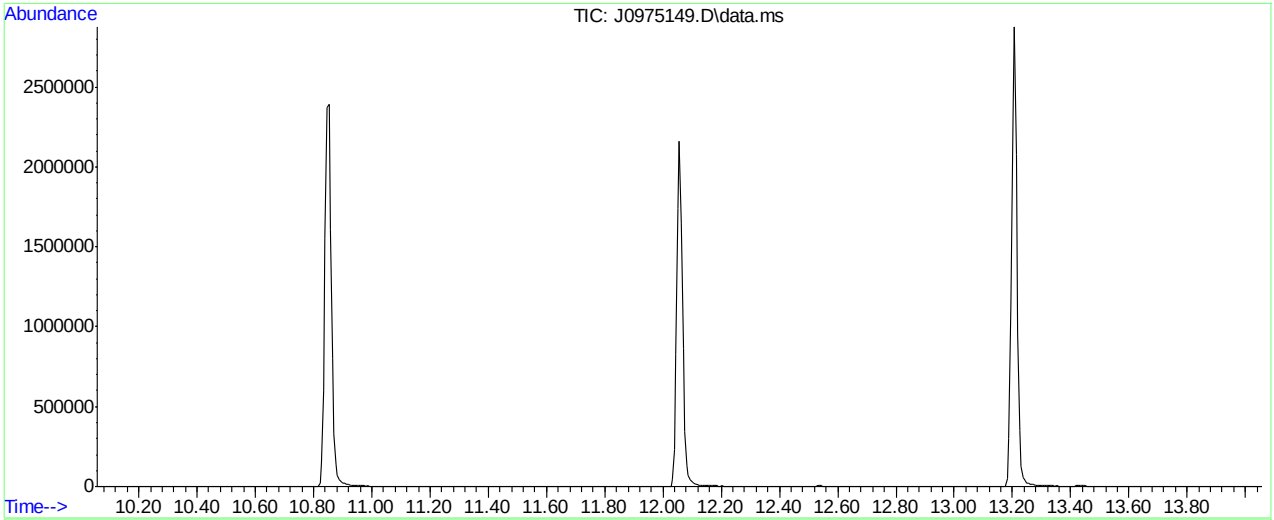
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	20.14
0.00	0.00	0.00
0.00	0.00	0.00

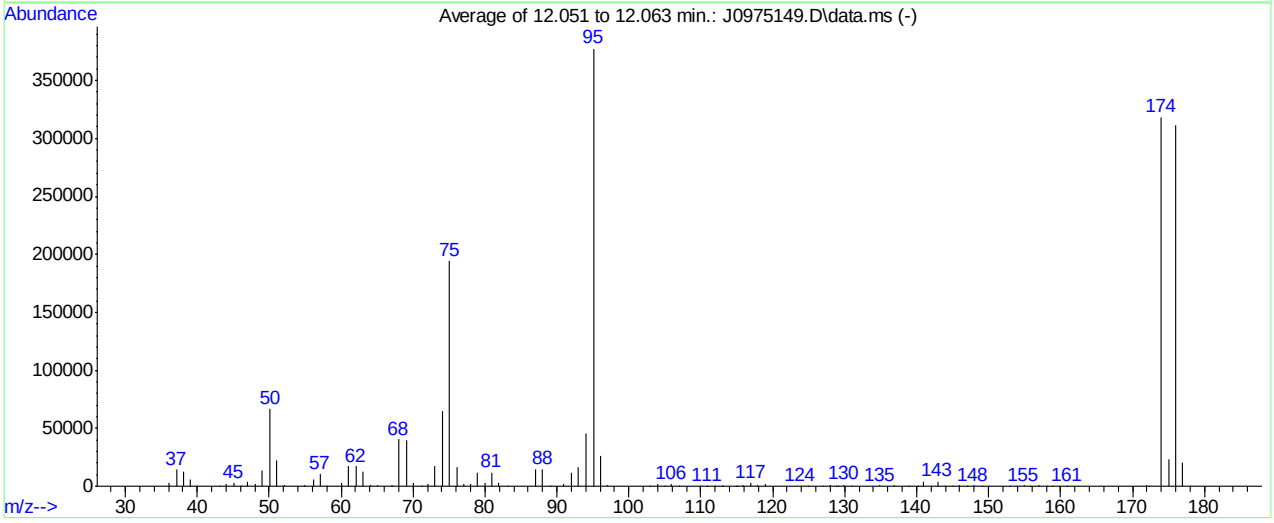
SGS ACCUTEST FA33763

Methods: SW-846 8260B

Data File : C:\msdchem\2\data\031516\J0975149.D Vial: 5
Acq On : 15 Mar 2016 1:53 pm Operator: DARSHNAP
Sample : BFB Inst : MSVOA6
Misc : MS33279,VJ5237,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ031516.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1573, 1574, 1575; Background Corrected with Scan 1566

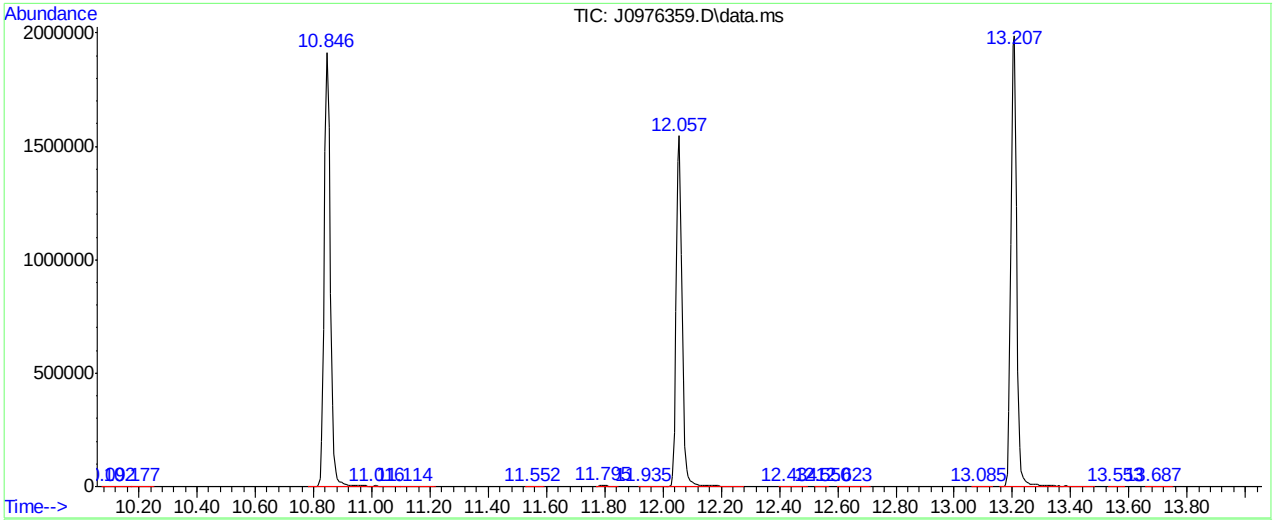
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	66293	PASS
75	95	30	60	51.4	194069	PASS
95	95	100	100	100.0	377600	PASS
96	95	5	9	7.0	26531	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.3	318315	PASS
175	174	5	9	7.2	22907	PASS
176	174	95	101	97.8	311403	PASS
177	176	5	9	6.5	20325	PASS

J0975149.D MSJ031516.M Wed Mar 16 09:52:48 2016

Methods: SW-846 8260B

Data File : C:\msdchem\2\data\050916\J0976359.D Vial: 1
Acq On : 9 May 2016 8:35 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS33802,VJ5289,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\2\methods\MSJ031516.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 1573, 1574, 1575; Background Corrected with Scan 1566

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.2	47040	PASS
75	95	30	60	50.2	137451	PASS
95	95	100	100	100.0	273877	PASS
96	95	5	9	6.8	18578	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	86.4	236672	PASS
175	174	5	9	7.7	18225	PASS
176	174	95	101	96.3	227968	PASS
177	176	5	9	6.7	15277	PASS

J0976359.D MSJ031516.M Tue May 10 08:20:49 2016

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:19:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.762	96	1497519	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1089904	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	603459	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	91725	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	373911	48.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.72%			
46) 1,2-Dichloroethane-d4	7.482	65	459347	49.68	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.36%			
57) Toluene-d8	9.301	98	1476291	51.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.36%			
79) 4-Bromofluorobenzene	12.057	95	555679	47.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.676	85	6775	0.68	ug/L	95
3) Chloromethane	2.895	50	10042	1.02	ug/L	86
4) Vinyl Chloride	3.029	62	9163	0.89	ug/L	84
5) 1,3-Butadiene	3.029	54	7059	0.86	ug/L	85
6) Bromomethane	3.455	94	9881m	1.44	ug/L	
7) Chloroethane	3.607	64	6448	1.12	ug/L	90
8) Trichlorofluoromethane	3.850	101	10448m	0.79	ug/L	
9) Ethyl Ether	4.130	59	5459	0.88	ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.355	67	8916	1.01	ug/L #	71
11) 1,1-Dichloroethene	4.398	61	11350	1.02	ug/L	94
12) Freon 113	4.458	101	7347	0.99	ug/L #	83
13) Carbon Disulfide	4.471	76	21866	0.93	ug/L	92
14) Iodomethane	4.586	142	12203	1.00	ug/L	95
15) Allyl chloride	4.927	41	8571	0.82	ug/L	96
16) Methylene Chloride	5.042	49	19069	1.87	ug/L	92
17) Acetone	5.091	58	2092	4.99	ug/L	92
18) Methyl acetate	5.213	74	4128	4.66	ug/L #	49
19) trans-1,2-Dichloroethene	5.231	61	9877	0.91	ug/L	95
20) Hexane	5.310	56	6156	0.92	ug/L #	69
21) Methyl Tert Butyl Ether	5.334	73	19763	0.98	ug/L	85
22) Acetonitrile	5.608	40	4443	14.08	ug/L #	56
23) Di-isopropyl ether	5.724	45	23214	1.00	ug/L	83
24) Chloroprene	5.876	53	9643	0.84	ug/L	85
25) 1,1-Dichloroethane	5.900	63	14012	1.00	ug/L	98
26) Acrylonitrile	5.949	53	11139	5.74	ug/L	97
27) ETBE	6.113	59	21083	0.90	ug/L	79
28) Vinyl acetate	6.125	43	55946	4.80	ug/L	97
29) cis-1,2-Dichloroethene	6.478	96	8540	0.96	ug/L	93
30) 2,2-Dichloropropane	6.606	77	10698	1.02	ug/L	86
31) Bromochloromethane	6.691	128	3551	0.86	ug/L #	79
32) Cyclohexane	6.734	56	12273	0.98	ug/L #	81
33) Chloroform	6.746	83	15433	1.01	ug/L	93
34) Ethyl acetate	6.825	43	23574	5.07	ug/L	90

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:19:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35)	Tetrahydrofuran	6.947	42	3124	2.34 ug/L #	71
37)	Carbon Tetrachloride	6.934	117	9892	0.93 ug/L #	81
38)	1,1,1-Trichloroethane	6.995	97	12445	0.97 ug/L	92
39)	2-Butanone	7.050	43	12221	5.99 ug/L	98
40)	1,1-Dichloropropene	7.105	75	10270	0.96 ug/L	93
41)	tert-Butyl Formate	7.190	59	37883	8.06 ug/L #	33
42)	Propionitrile	7.348	54	7401	10.45 ug/L #	64
43)	Methacrylonitrile	7.366	41	33814	10.07 ug/L	88
44)	Benzene	7.360	78	31721	0.98 ug/L	85
45)	TAME	7.439	73	20156	0.98 ug/L	94
47)	1,2-Dichloroethane	7.549	62	12849	1.15 ug/L	88
48)	Trichloroethene	7.944	95	8203	0.96 ug/L	96
49)	Methylcyclohexane	7.950	83	12273	0.91 ug/L	93
50)	Dibromomethane	8.370	93	4922	1.10 ug/L	92
51)	1,2-Dichloropropane	8.455	63	8279	1.04 ug/L	93
52)	Bromodichloromethane	8.504	83	9529	0.93 ug/L	93
53)	Methyl methacrylate	8.607	41	3207	0.75 ug/L #	72
54)	2-Chloroethyl vinyl ether	9.015	63	17389	4.02 ug/L	93
55)	cis-1,3-Dichloropropene	9.118	75	9664	0.83 ug/L	98
58)	Toluene	9.356	91	36026	1.05 ug/L	93
59)	2-Nitropropane	9.556	41	4628	3.48 ug/L	84
60)	4-Methyl-2-pentanone	9.678	43	22365	4.71 ug/L	96
61)	trans-1,3-Dichloropropene	9.745	75	7916	0.84 ug/L	90
62)	Tetrachloroethene	9.757	166	8590	0.93 ug/L	86
63)	Ethyl methacrylate	9.848	69	5248	0.64 ug/L	93
64)	1,1,2-Trichloroethane	9.903	83	5205	0.97 ug/L	87
65)	Dibromochloromethane	10.110	129	6228	0.91 ug/L	85
66)	1,3-Dichloropropane	10.189	76	11243	1.03 ug/L	95
67)	1,2-Dibromoethane	10.378	107	6238	1.07 ug/L #	60
68)	2-hexanone	10.505	43	13884	4.29 ug/L	77
69)	1-Chlorohexane	10.797	91	8158	0.81 ug/L #	83
70)	Ethylbenzene	10.864	91	39232	0.97 ug/L	97
71)	Chlorobenzene	10.864	112	23328	1.06 ug/L	91
72)	1,1,1,2-Tetrachloroethane	10.913	131	6466	0.93 ug/L #	75
73)	m,p-Xylene	11.004	91	54337	1.71 ug/L	98
74)	o-Xylene	11.442	91	27064	0.95 ug/L	95
75)	Styrene	11.491	104	16955	0.80 ug/L	94
76)	Bromoform	11.552	173	3073	0.82 ug/L	78
77)	Isopropylbenzene	11.746	105	29354	0.80 ug/L	96
80)	cis-1,4-Dichloro-2-butene	12.099	53	1716	1.08 ug/L #	39
81)	n-Propylbenzene	12.166	91	39032	0.93 ug/L	97
82)	Bromobenzene	12.191	156	9314	0.95 ug/L	97
83)	1,1,2,2-Tetrachloroethane	12.221	83	7603	1.06 ug/L	95
84)	1,3,5-Trimethylbenzene	12.343	105	25826	0.82 ug/L	93
85)	2-Chlorotoluene	12.355	91	29015	0.95 ug/L	99
86)	trans-1,4-Dichloro-2-B...	12.410	53	1269	0.87 ug/L #	57
87)	1,2,3-Trichloropropane	12.385	110	1795	0.91 ug/L	75
88)	Cyclohexanone	12.452	55	686	5.72 ug/L #	65
89)	4-Chlorotoluene	12.525	91	24461	0.87 ug/L	95
90)	a-Methyl Styrene	12.610	118	7205	0.82 ug/L #	90

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:19:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	16548	0.90	ug/L	96
92) 1,2,4-Trimethylbenzene	12.756	105	25129	0.80	ug/L	93
93) Pentachloroethane	12.738	167	4995	1.16	ug/L #	88
94) sec-Butylbenzene	12.872	105	33797	0.91	ug/L	95
95) 4-Isopropyltoluene	13.000	119	26896	0.86	ug/L	97
96) 1,3-Dichlorobenzene	13.140	146	16834	1.01	ug/L	86
97) 1,4-Dichlorobenzene	13.225	146	19396	1.09	ug/L	86
98) n-Butylbenzene	13.438	92	14315	0.80	ug/L	94
99) Benzyl Chloride	13.450	126	1193	0.60	ug/L #	6
100) 1,2-Dichlorobenzene	13.651	146	16386	1.08	ug/L	89
101) 1,2-Dibromo-3-Chloropr...	14.387	75	1127	1.88	ug/L #	47
102) Hexachlorobutadiene	14.934	225	6492	1.35	ug/L	94
103) 1,2,4-Trichlorobenzene	14.977	180	9990	1.91	ug/L	94
104) Naphthalene	15.263	128	14240	2.35	ug/L	90
105) 1,2,3-Trichlorobenzene	15.433	180	10129	3.18	ug/L	95
108) acrolein	4.756	56	4435	4.39	ug/L	82
109) Tert Butyl Alcohol	5.383	59	4329	10.16	ug/L	82
110) tert Amyl alcohol	7.579	59	2592	8.16	ug/L #	63
111) Isobutyl alcohol	7.433	42	1712	9.78	ug/L #	83
112) 1,4-Dioxane	8.674	88	807	19.87	ug/L #	29
113) 3,3-Dimethyl-1-butanol	10.438	57	16639	48.08	ug/L	89

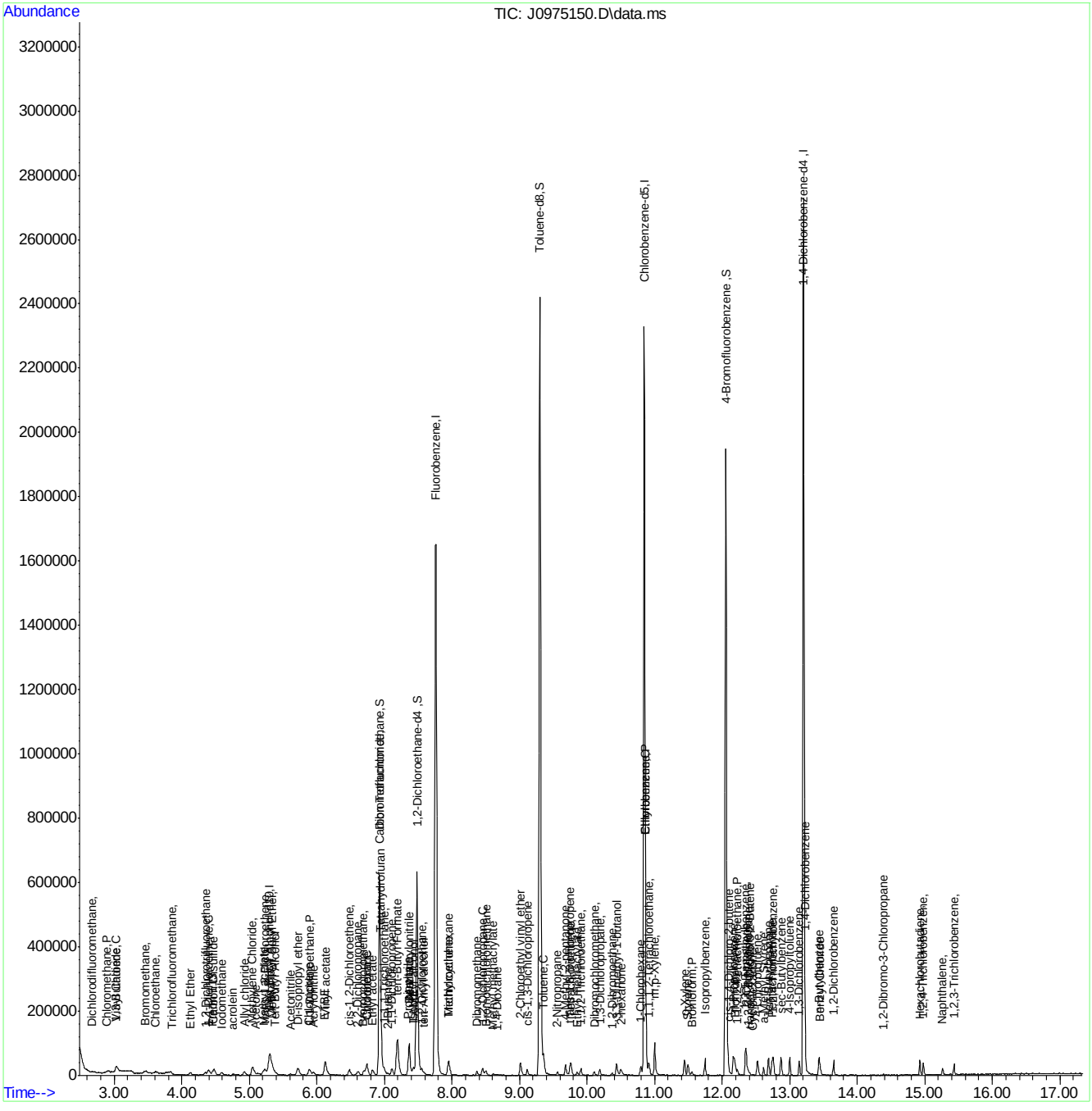
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:19:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33763

Manual Integration Approval Summary

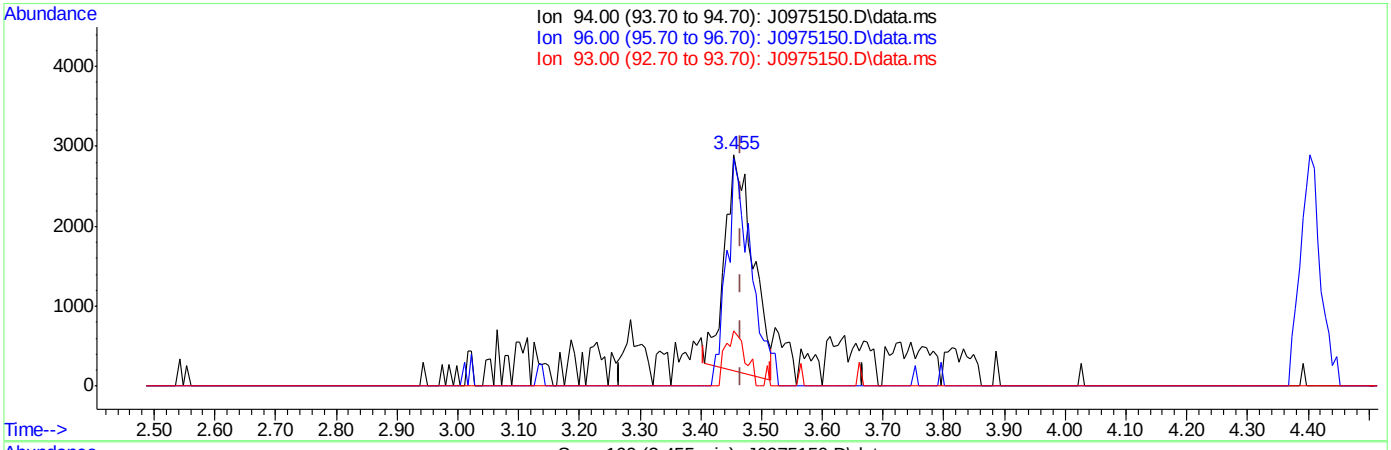
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975150.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 14:17	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

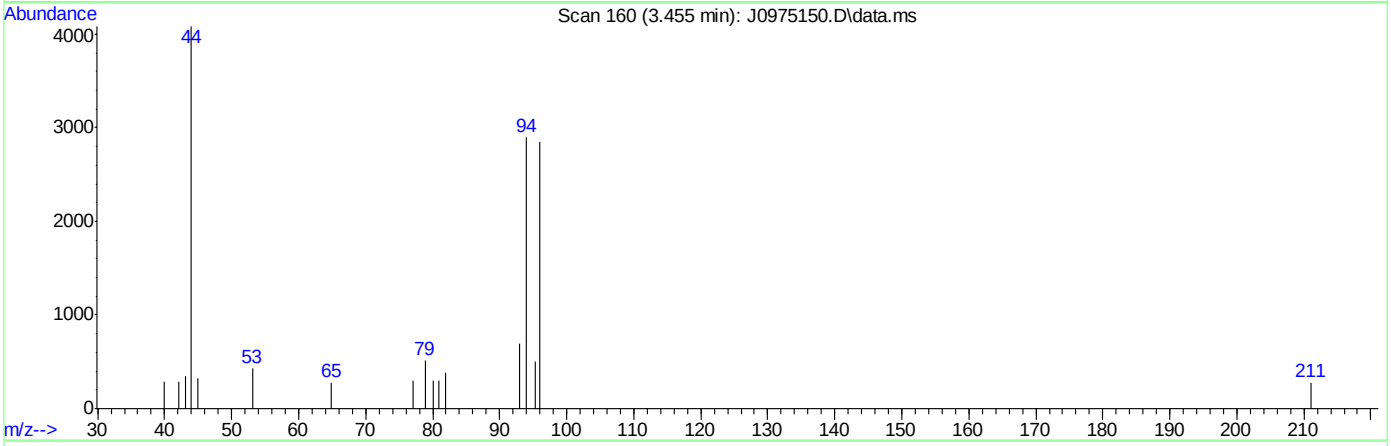
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Bromide	74-83-9		3.45	Poor instrument integration
Trichlorofluoromethane	75-69-4		3.85	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:17:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975150.D\data.ms

(6) Bromomethane ( )

3.455min (-0.012) 1.27ug/L

response 8695

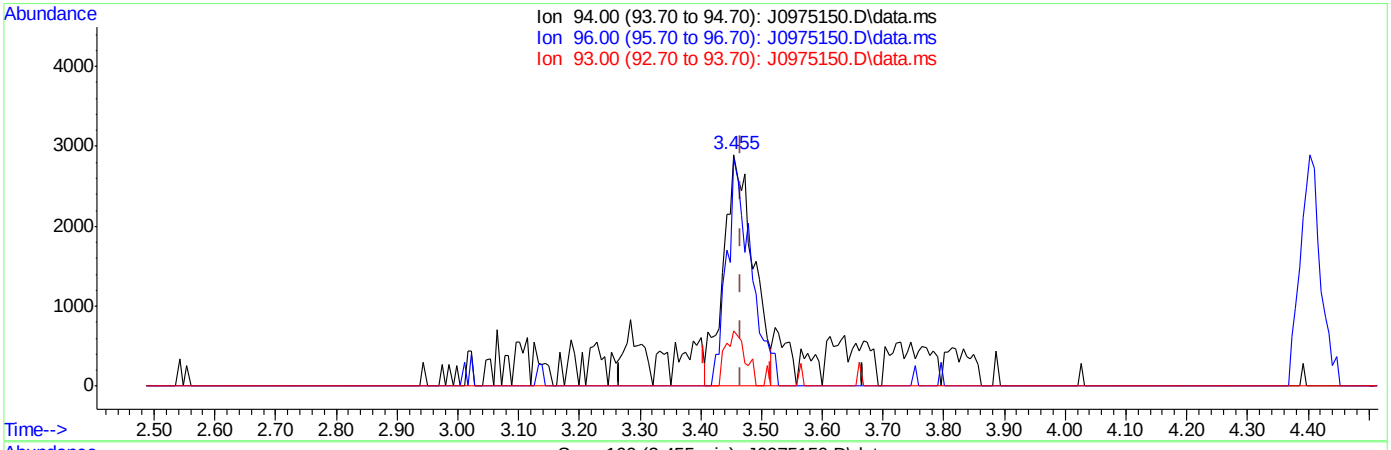
Ion	Exp%	Act%
94.00	100	100
96.00	91.30	108.90
93.00	18.00	26.71
0.00	0.00	0.00

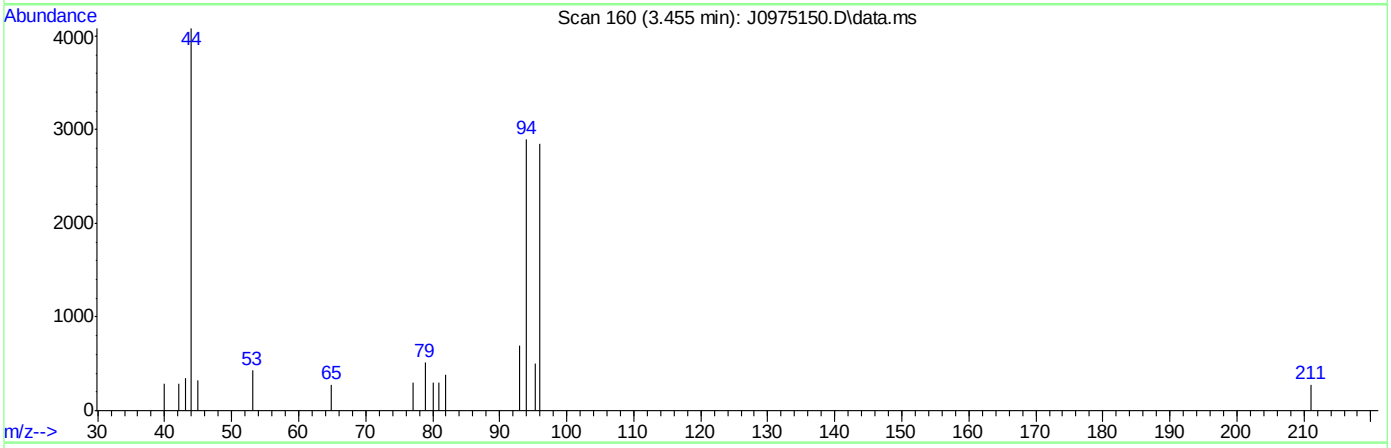
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:17:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975150.D\data.ms

(6) Bromomethane ( )

3.455min (-0.012) 1.44ug/L m

response 9881

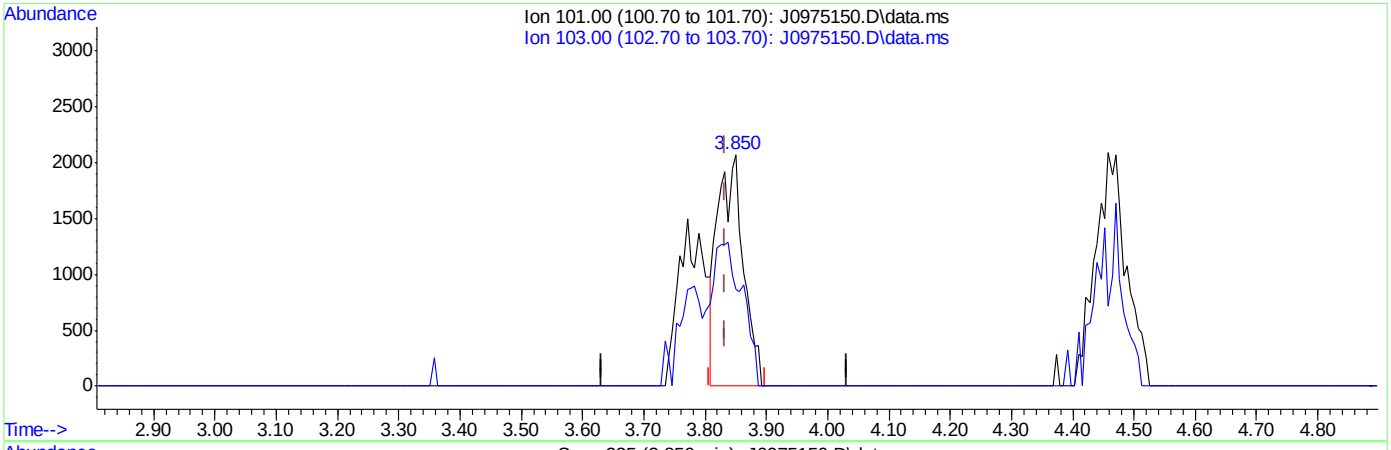
Ion	Exp%	Act%
94.00	100	100
96.00	91.30	98.31
93.00	18.00	24.11
0.00	0.00	0.00

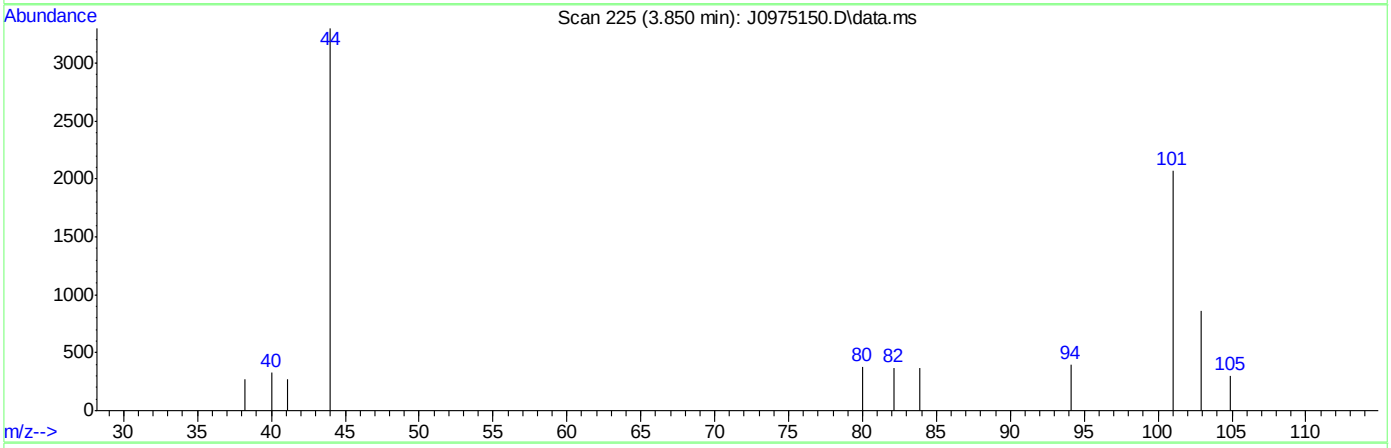
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:17:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975150.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.018) 0.46ug/L

response 6075

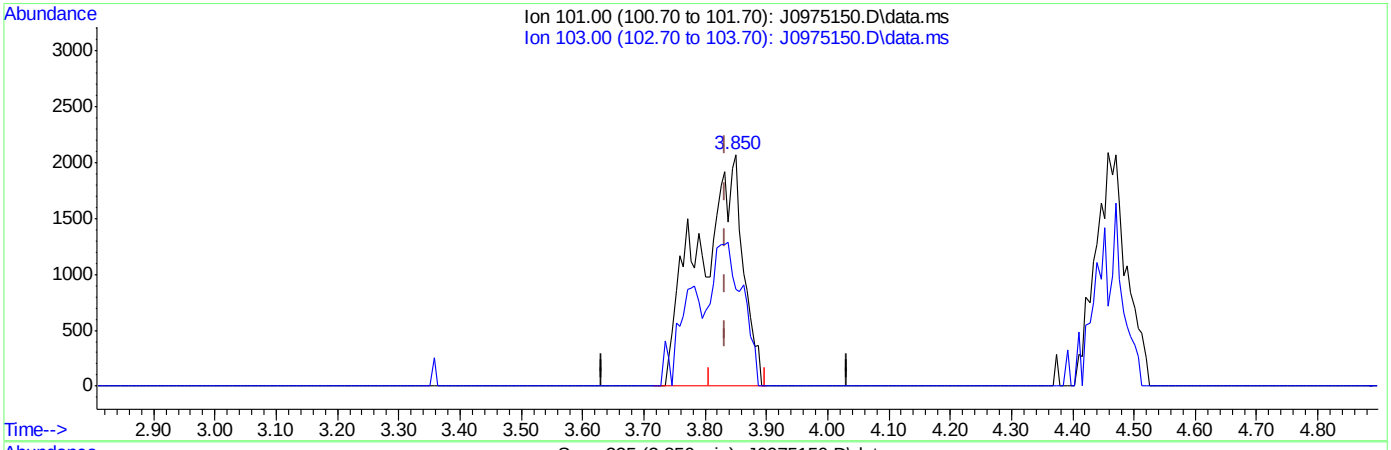
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	41.68
0.00	0.00	0.00
0.00	0.00	0.00

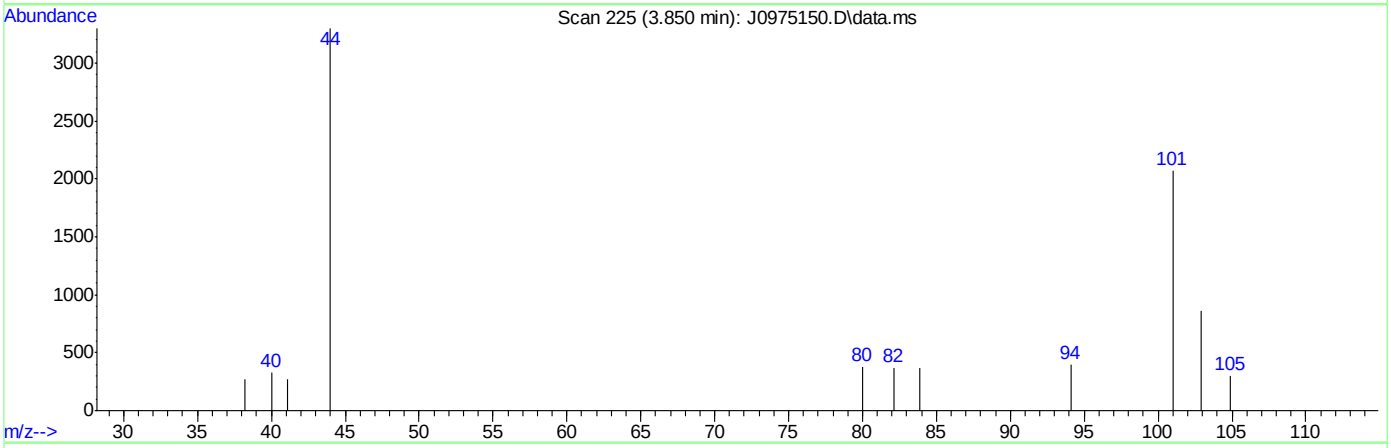
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975150.D
Acq On : 15 Mar 2016 2:17 pm
Operator : DARSHNAP
Sample : IC5237-1 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 16 08:17:21 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975150.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.018) 0.79ug/L m

response 10448

Ion	Exp%	Act%
101.00	100	100
103.00	63.50	41.68
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:20:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1497867	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1105198	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	620103	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	80218	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	381652	49.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.72%			
46) 1,2-Dichloroethane-d4	7.482	65	470179	50.84	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.68%			
57) Toluene-d8	9.301	98	1489073	50.91	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.82%			
79) 4-Bromofluorobenzene	12.057	95	563252	47.30	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	45739	4.57	ug/L	97
3) Chloromethane	2.883	50	45096	4.58	ug/L	99
4) Vinyl Chloride	3.035	62	50250	4.89	ug/L	100
5) 1,3-Butadiene	3.023	54	36147	4.38	ug/L	91
6) Bromomethane	3.455	94	39184	5.80	ug/L	92
7) Chloroethane	3.613	64	26261	4.61	ug/L	95
8) Trichlorofluoromethane	3.832	101	61441m	4.67	ug/L	
9) Ethyl Ether	4.118	59	27596	4.44	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.349	67	40875	4.65	ug/L	94
11) 1,1-Dichloroethene	4.391	61	48452	4.36	ug/L	95
12) Freon 113	4.464	101	35541	4.79	ug/L	92
13) Carbon Disulfide	4.471	76	101564	4.31	ug/L	100
14) Iodomethane	4.580	142	55852	4.59	ug/L	92
15) Allyl chloride	4.921	41	48119	4.60	ug/L	92
16) Methylene Chloride	5.042	49	51479	5.05	ug/L	94
17) Acetone	5.073	58	12734	30.31	ug/L	91
18) Methyl acetate	5.201	74	21874	24.70	ug/L #	77
19) trans-1,2-Dichloroethene	5.231	61	45857	4.24	ug/L	95
20) Hexane	5.298	56	30261	4.50	ug/L #	90
21) Methyl Tert Butyl Ether	5.334	73	92687	4.59	ug/L	79
22) Acetonitrile	5.596	40	21113	67.20	ug/L #	86
23) Di-isopropyl ether	5.718	45	102600	4.41	ug/L	96
24) Chloroprene	5.876	53	48399	4.22	ug/L	95
25) 1,1-Dichloroethane	5.894	63	61532	4.39	ug/L	98
26) Acrylonitrile	5.931	53	47478	24.45	ug/L	96
27) ETBE	6.119	59	102089	4.38	ug/L	97
28) Vinyl acetate	6.113	43	287674	24.68	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	40640	4.55	ug/L	96
30) 2,2-Dichloropropane	6.600	77	45028	4.28	ug/L	98
31) Bromochloromethane	6.691	128	19294	4.65	ug/L	97
32) Cyclohexane	6.728	56	54509	4.36	ug/L	93
33) Chloroform	6.740	83	69984	4.58	ug/L	96
34) Ethyl acetate	6.813	43	116131	24.95	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:20:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.928	42	7754	5.81 ug/L	91
37) Carbon Tetrachloride	6.928	117	46777	4.41 ug/L	94
38) 1,1,1-Trichloroethane	6.995	97	56130	4.36 ug/L	88
39) 2-Butanone	7.032	43	43633	21.39 ug/L	98
40) 1,1-Dichloropropene	7.105	75	46613	4.37 ug/L	98
41) tert-Butyl Formate	7.190	59	191737	40.76 ug/L #	67
42) Propionitrile	7.342	54	32717	46.19 ug/L #	73
43) Methacrylonitrile	7.360	41	178244	53.47 ug/L	96
44) Benzene	7.360	78	145505	4.48 ug/L	97
45) TAME	7.433	73	92220	4.49 ug/L	89
47) 1,2-Dichloroethane	7.549	62	52574	4.69 ug/L	96
48) Trichloroethene	7.938	95	36327	4.24 ug/L	93
49) Methylcyclohexane	7.950	83	59605	4.41 ug/L	95
50) Dibromomethane	8.364	93	21077	4.73 ug/L	93
51) 1,2-Dichloropropane	8.449	63	35727	4.47 ug/L	95
52) Bromodichloromethane	8.498	83	44773	4.35 ug/L	96
53) Methyl methacrylate	8.601	41	19555	4.55 ug/L	95
54) 2-Chloroethyl vinyl ether	9.009	63	90559	20.99 ug/L	99
55) cis-1,3-Dichloropropene	9.112	75	47740	4.11 ug/L	93
58) Toluene	9.356	91	150830	4.34 ug/L	98
59) 2-Nitropropane	9.563	41	24627	18.28 ug/L	88
60) 4-Methyl-2-pentanone	9.678	43	110229	22.87 ug/L	97
61) trans-1,3-Dichloropropene	9.739	75	40521	4.26 ug/L	93
62) Tetrachloroethene	9.757	166	37799	4.02 ug/L	96
63) Ethyl methacrylate	9.842	69	33308	4.03 ug/L	93
64) 1,1,2-Trichloroethane	9.903	83	24194	4.45 ug/L	96
65) Dibromochloromethane	10.104	129	29798	4.27 ug/L	97
66) 1,3-Dichloropropane	10.189	76	49657	4.47 ug/L	95
67) 1,2-Dibromoethane	10.366	107	25707	4.34 ug/L	99
68) 2-hexanone	10.493	43	69997	21.35 ug/L	96
69) 1-Chlorohexane	10.797	91	40374	3.98 ug/L	96
70) Ethylbenzene	10.864	91	175498	4.31 ug/L	100
71) Chlorobenzene	10.864	112	99467	4.45 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.913	131	32015	4.52 ug/L	94
73) m,p-Xylene	10.998	91	257172	8.07 ug/L	97
74) o-Xylene	11.436	91	129261	4.46 ug/L	92
75) Styrene	11.491	104	89606	4.18 ug/L	99
76) Bromoform	11.552	173	16553	4.34 ug/L	94
77) Isopropylbenzene	11.747	105	150179	4.07 ug/L	98
80) cis-1,4-Dichloro-2-butene	12.087	53	9412	5.79 ug/L #	83
81) n-Propylbenzene	12.166	91	186692	4.32 ug/L	97
82) Bromobenzene	12.185	156	43521	4.34 ug/L	93
83) 1,1,2,2-Tetrachloroethane	12.221	83	35300	4.80 ug/L	96
84) 1,3,5-Trimethylbenzene	12.343	105	137372	4.27 ug/L	100
85) 2-Chlorotoluene	12.355	91	136546	4.36 ug/L	93
86) trans-1,4-Dichloro-2-B...	12.404	53	7220	4.78 ug/L #	56
87) 1,2,3-Trichloropropane	12.385	110	9078	4.49 ug/L	91
88) Cyclohexanone	12.458	55	2885	23.41 ug/L #	85
89) 4-Chlorotoluene	12.519	91	121317	4.22 ug/L	96
90) a-Methyl Styrene	12.610	118	37805	4.21 ug/L	96

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:20:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	77635	4.09	ug/L	92
92) 1,2,4-Trimethylbenzene	12.756	105	142610	4.42	ug/L	96
93) Pentachloroethane	12.738	167	23873	5.36	ug/L	96
94) sec-Butylbenzene	12.872	105	166261	4.33	ug/L	99
95) 4-Isopropyltoluene	13.000	119	138055	4.32	ug/L	95
96) 1,3-Dichlorobenzene	13.140	146	75534	4.40	ug/L	95
97) 1,4-Dichlorobenzene	13.219	146	82699	4.53	ug/L	86
98) n-Butylbenzene	13.432	92	76297	4.17	ug/L	97
99) Benzyl Chloride	13.450	126	7780	3.78	ug/L #	84
100) 1,2-Dichlorobenzene	13.645	146	74335	4.76	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	4498	7.21	ug/L	88
102) Hexachlorobutadiene	14.928	225	31359	6.31	ug/L	98
103) 1,2,4-Trichlorobenzene	14.977	180	51743	9.47	ug/L	97
104) Naphthalene	15.263	128	71283	10.99	ug/L	99
105) 1,2,3-Trichlorobenzene	15.433	180	45604	13.31	ug/L	98
107) Ethanol	4.282	45	4538m	130.44	ug/L	
108) acrolein	4.756	56	23167	26.19	ug/L	87
109) Tert Butyl Alcohol	5.371	59	20425	54.82	ug/L #	64
110) tert Amyl alcohol	7.579	59	12035	43.30	ug/L #	76
111) Isobutyl alcohol	7.458	42	14047	92.39	ug/L #	89
112) 1,4-Dioxane	8.674	88	2924	82.31	ug/L	91
113) 3,3-Dimethyl-1-butanol	10.439	57	72142	236.23	ug/L	99

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

7.6.2

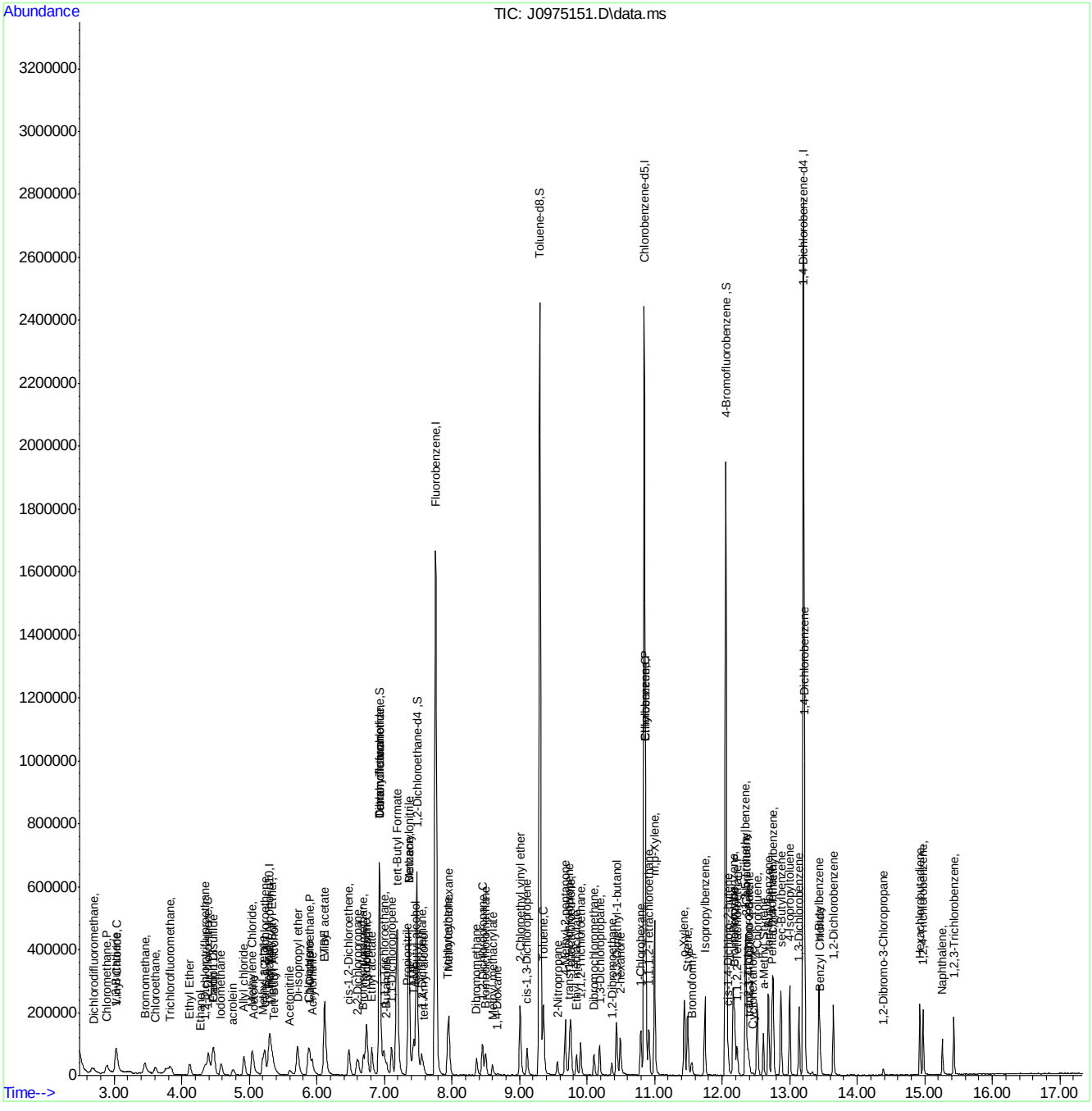
7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:20:13 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33763

Manual Integration Approval Summary

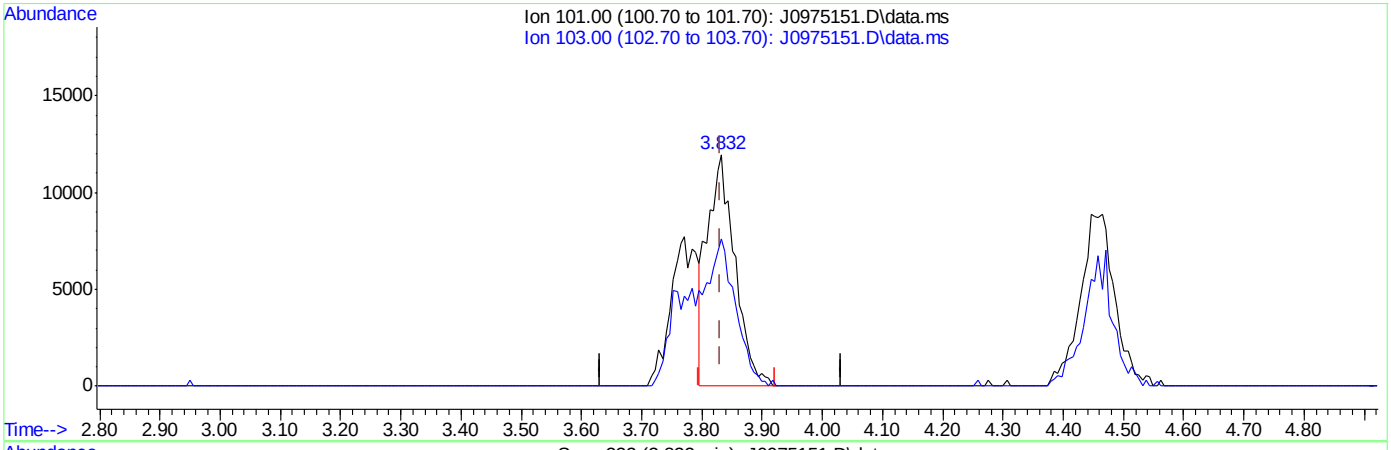
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975151.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 14:41	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

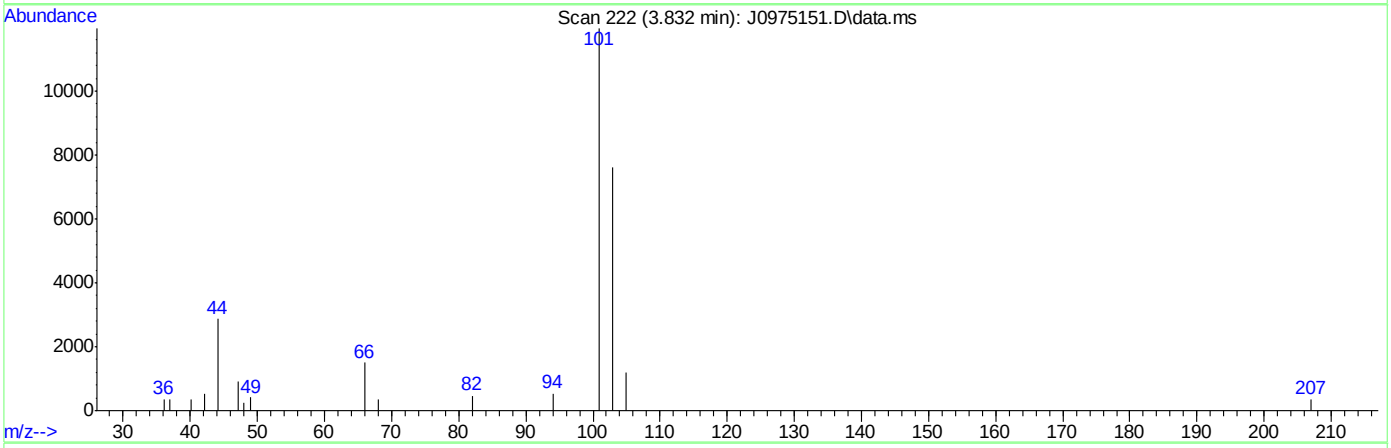
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:17:24 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975151.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 2.87ug/L

response 37793

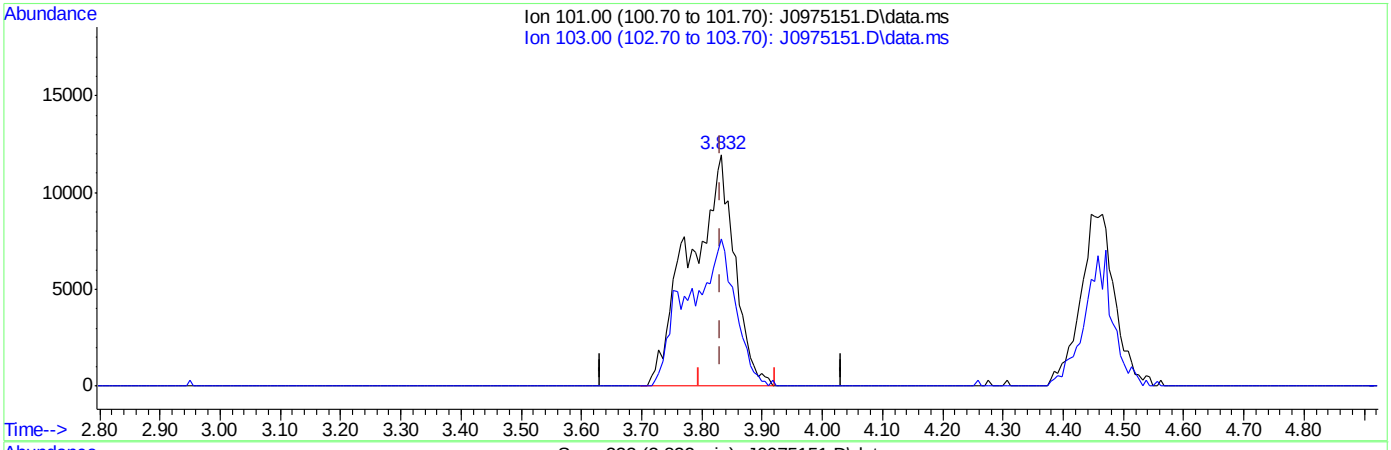
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.74
0.00	0.00	0.00
0.00	0.00	0.00

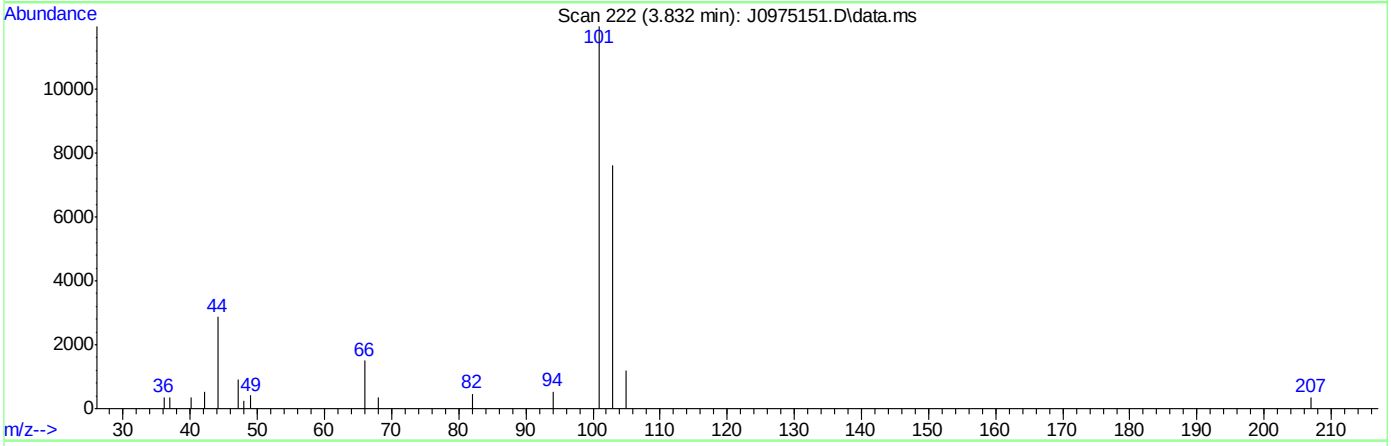
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:17:24 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975151.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 4.67ug/L m

response 61441

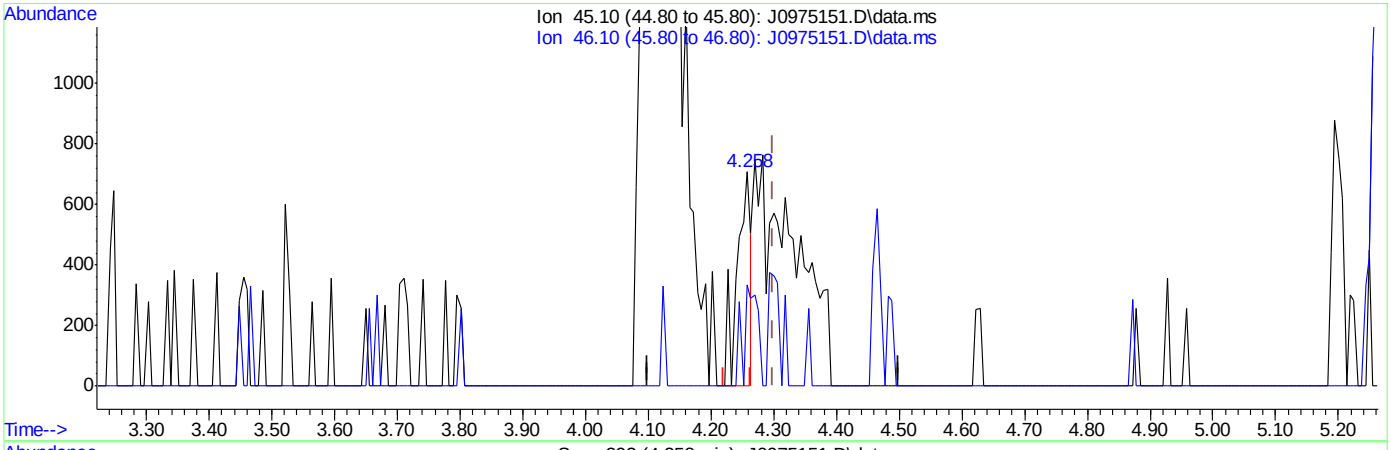
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.74
0.00	0.00	0.00
0.00	0.00	0.00

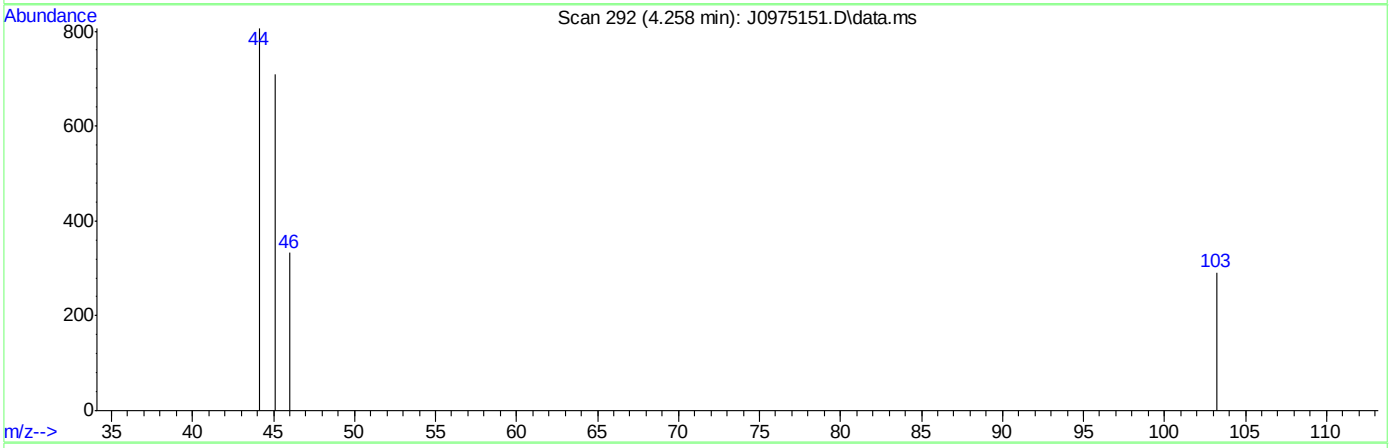
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:17:24 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975151.D\data.ms

(107) Ethanol

4.258min (-0.042) 31.39ug/L

response 1092

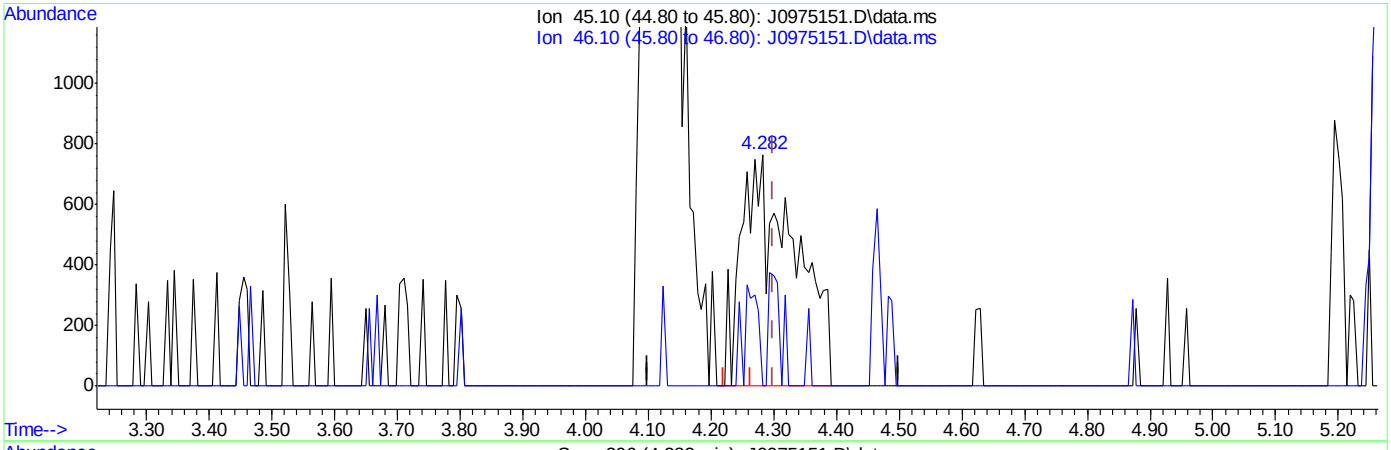
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	47.03
0.00	0.00	0.00
0.00	0.00	0.00

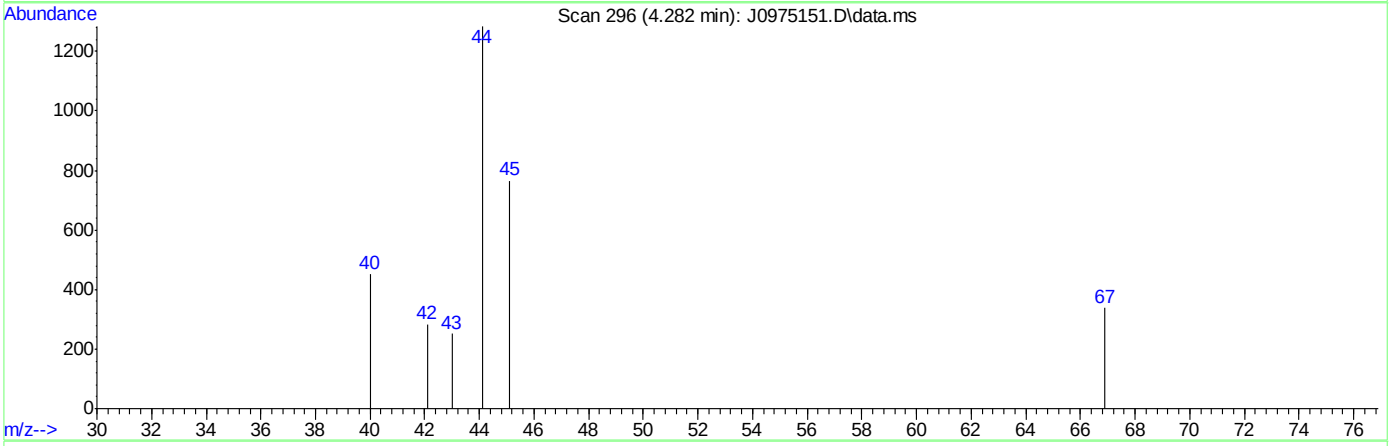
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975151.D
Acq On : 15 Mar 2016 2:41 pm
Operator : DARSHNAP
Sample : IC5237-2 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 16 08:17:24 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975151.D\data.ms

(107) Ethanol

4.282min (-0.018) 130.44ug/L m

response 4538

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

SGS ACCUTEST FA33763

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:20:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1542004	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1142014	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	645463	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	86968	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	390494	49.55	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.10%			
46) 1,2-Dichloroethane-d4	7.482	65	480391	50.46	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.92%			
57) Toluene-d8	9.301	98	1510629	49.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.98%			
79) 4-Bromofluorobenzene	12.057	95	583662	47.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.682	85	96837	9.39	ug/L	89
3) Chloromethane	2.889	50	98790	9.76	ug/L	92
4) Vinyl Chloride	3.035	62	100613	9.52	ug/L	99
5) 1,3-Butadiene	3.023	54	82854	9.75	ug/L	94
6) Bromomethane	3.455	94	76300	11.20	ug/L	97
7) Chloroethane	3.613	64	54861	9.56	ug/L	98
8) Trichlorofluoromethane	3.832	101	129700m	9.58	ug/L	
9) Ethyl Ether	4.118	59	60071	9.39	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.361	67	90564	10.00	ug/L	93
11) 1,1-Dichloroethene	4.392	61	111413	9.75	ug/L	96
12) Freon 113	4.452	101	78248	10.25	ug/L	96
13) Carbon Disulfide	4.471	76	231267	9.54	ug/L	92
14) Iodomethane	4.580	142	121731	9.73	ug/L	97
15) Allyl chloride	4.921	41	103477	9.62	ug/L	90
16) Methylene Chloride	5.043	49	104616	10.01	ug/L	98
17) Acetone	5.079	58	24885	57.38	ug/L	94
18) Methyl acetate	5.195	74	43154	47.33	ug/L	93
19) trans-1,2-Dichloroethene	5.225	61	102701	9.23	ug/L	95
20) Hexane	5.298	56	67523	9.75	ug/L	95
21) Methyl Tert Butyl Ether	5.335	73	199338	9.58	ug/L	82
22) Acetonitrile	5.590	40	35809	111.18	ug/L	97
23) Di-isopropyl ether	5.718	45	228448	9.53	ug/L	97
24) Chloroprene	5.870	53	108840	9.22	ug/L	96
25) 1,1-Dichloroethane	5.894	63	136729	9.48	ug/L	99
26) Acrylonitrile	5.925	53	101112	50.59	ug/L	95
27) ETBE	6.113	59	228598	9.53	ug/L	98
28) Vinyl acetate	6.113	43	617170	51.43	ug/L	96
29) cis-1,2-Dichloroethene	6.472	96	86398	9.39	ug/L	96
30) 2,2-Dichloropropane	6.600	77	106201	9.81	ug/L	98
31) Bromochloromethane	6.685	128	40628	9.51	ug/L	97
32) Cyclohexane	6.728	56	128094	9.95	ug/L	96
33) Chloroform	6.740	83	149140	9.47	ug/L	96
34) Ethyl acetate	6.807	43	238777	49.82	ug/L	99

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:20:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	14645	10.65 ug/L	93
37) Carbon Tetrachloride	6.928	117	98194m	8.99 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	130953	9.89 ug/L	96
39) 2-Butanone	7.032	43	95601	45.54 ug/L	97
40) 1,1-Dichloropropene	7.105	75	102750	9.36 ug/L	96
41) tert-Butyl Formate	7.184	59	431536	89.05 ug/L #	79
42) Propionitrile	7.336	54	71061	97.45 ug/L	99
43) Methacrylonitrile	7.360	41	364135	107.10 ug/L	98
44) Benzene	7.360	78	307875	9.21 ug/L	98
45) TAME	7.433	73	201643	9.53 ug/L	94
47) 1,2-Dichloroethane	7.549	62	108962	9.44 ug/L	97
48) Trichloroethene	7.938	95	82434	9.35 ug/L	95
49) Methylcyclohexane	7.957	83	140503	10.10 ug/L	94
50) Dibromomethane	8.364	93	43618	9.51 ug/L	91
51) 1,2-Dichloropropane	8.449	63	77405	9.41 ug/L	97
52) Bromodichloromethane	8.498	83	100869	9.52 ug/L	97
53) Methyl methacrylate	8.595	41	41843	9.45 ug/L	96
54) 2-Chloroethyl vinyl ether	9.009	63	198236	44.77 ug/L	99
55) cis-1,3-Dichloropropene	9.112	75	111485	9.33 ug/L	96
58) Toluene	9.356	91	333474	9.35 ug/L	98
59) 2-Nitropropane	9.557	41	56369	40.49 ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	241484	48.48 ug/L	98
61) trans-1,3-Dichloropropene	9.739	75	91892	9.35 ug/L	99
62) Tetrachloroethene	9.757	166	86651	8.91 ug/L	97
63) Ethyl methacrylate	9.842	69	75067	8.79 ug/L	96
64) 1,1,2-Trichloroethane	9.903	83	53956	9.61 ug/L	94
65) Dibromochloromethane	10.104	129	64538	8.94 ug/L	90
66) 1,3-Dichloropropane	10.183	76	107662	9.37 ug/L	95
67) 1,2-Dibromoethane	10.366	107	59559	9.73 ug/L	99
68) 2-hexanone	10.493	43	156481	46.19 ug/L	94
69) 1-Chlorohexane	10.798	91	97922	9.33 ug/L	95
70) Ethylbenzene	10.858	91	385160	9.25 ug/L	99
71) Chlorobenzene	10.865	112	216946	9.43 ug/L	92
72) 1,1,1,2-Tetrachloroethane	10.913	131	67973	9.29 ug/L	96
73) m,p-Xylene	10.998	91	586786	18.12 ug/L	96
74) o-Xylene	11.436	91	293795	9.82 ug/L	98
75) Styrene	11.485	104	209544	9.47 ug/L	97
76) Bromoform	11.546	173	37240	9.38 ug/L	97
77) Isopropylbenzene	11.741	105	344800	9.12 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	20702	12.22 ug/L #	83
81) n-Propylbenzene	12.160	91	424611	9.43 ug/L	96
82) Bromobenzene	12.185	156	94857	9.08 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	76382	9.98 ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	313459	9.35 ug/L	97
85) 2-Chlorotoluene	12.355	91	305103	9.36 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.404	53	18224	11.47 ug/L #	83
87) 1,2,3-Trichloropropane	12.385	110	19886	9.45 ug/L	96
88) Cyclohexanone	12.446	55	6163	48.04 ug/L	95
89) 4-Chlorotoluene	12.519	91	274526	9.17 ug/L	99
90) a-Methyl Styrene	12.611	118	83330	8.90 ug/L	98

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:20:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.684	91	180959	9.16	ug/L	94
92) 1,2,4-Trimethylbenzene	12.750	105	317609	9.46	ug/L	98
93) Pentachloroethane	12.738	167	53231	11.32	ug/L	98
94) sec-Butylbenzene	12.872	105	388833	9.74	ug/L	99
95) 4-Isopropyltoluene	13.000	119	322012	9.68	ug/L	99
96) 1,3-Dichlorobenzene	13.140	146	170341	9.52	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	178667	9.41	ug/L	92
98) n-Butylbenzene	13.432	92	181738	9.54	ug/L	98
99) Benzyl Chloride	13.450	126	20775	9.56	ug/L	98
100) 1,2-Dichlorobenzene	13.645	146	158407	9.75	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	10283	15.60	ug/L	91
102) Hexachlorobutadiene	14.928	225	72278	13.85	ug/L	98
103) 1,2,4-Trichlorobenzene	14.977	180	115617	19.85	ug/L	97
104) Naphthalene	15.263	128	173792	24.23	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	100782	26.68	ug/L	96
107) Ethanol	4.282	45	9223m	244.52	ug/L	
108) acrolein	4.757	56	52343	54.58	ug/L	93
109) Tert Butyl Alcohol	5.371	59	43268	107.11	ug/L	83
110) tert Amyl alcohol	7.573	59	29873	99.13	ug/L	91
111) Isobutyl alcohol	7.452	42	29297	179.04	ug/L #	88
112) 1,4-Dioxane	8.674	88	6964	180.83	ug/L	98
113) 3,3-Dimethyl-1-butanol	10.433	57	188130	559.66	ug/L	96

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

7.6.3

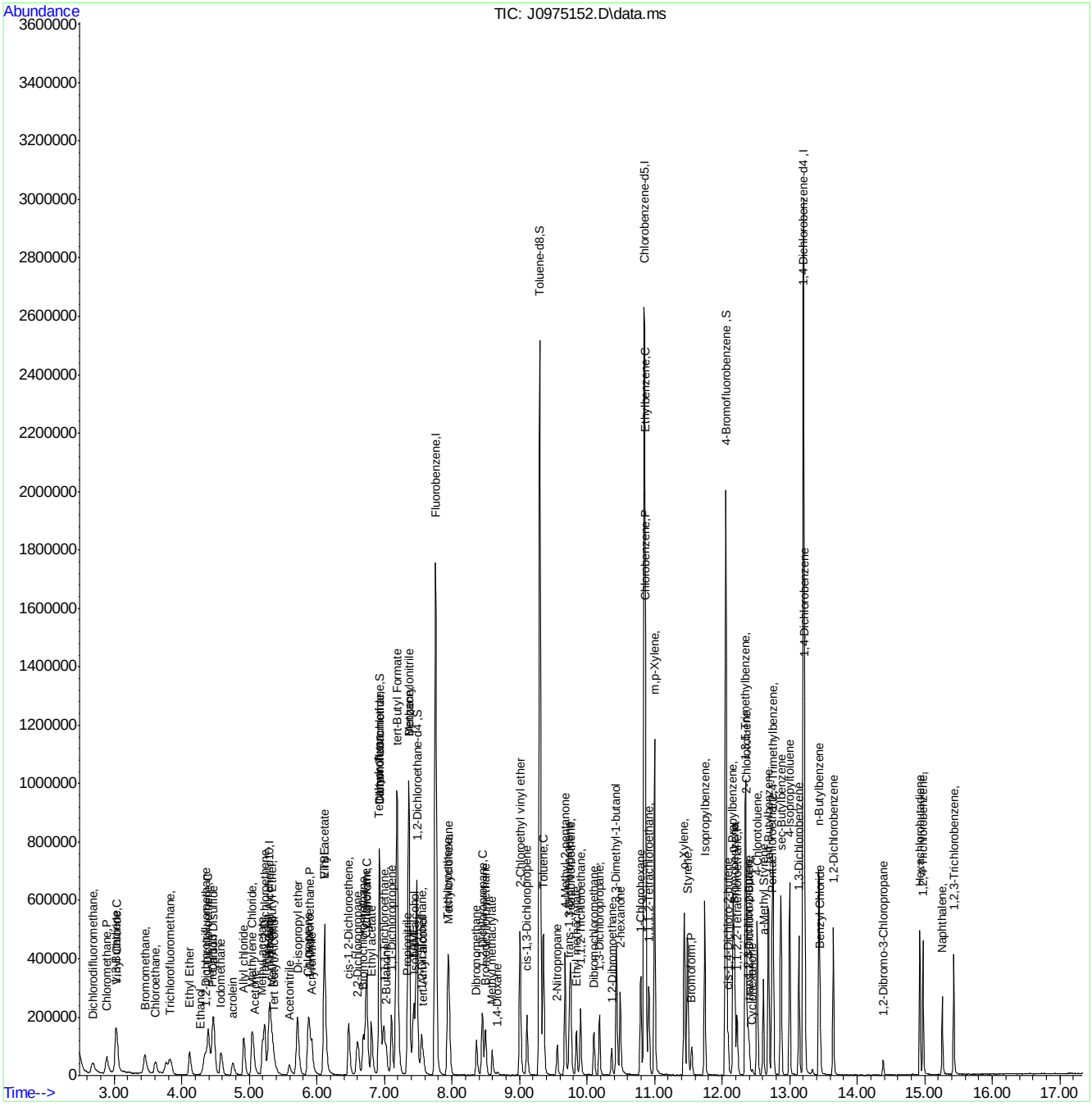
7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:20:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33763

Manual Integration Approval Summary

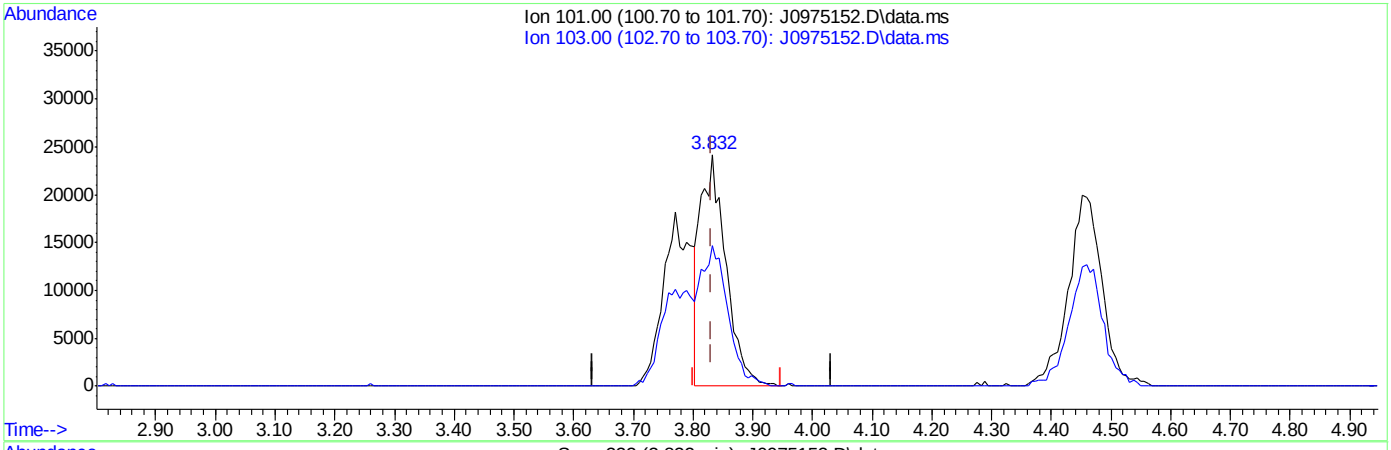
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975152.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 15:05	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

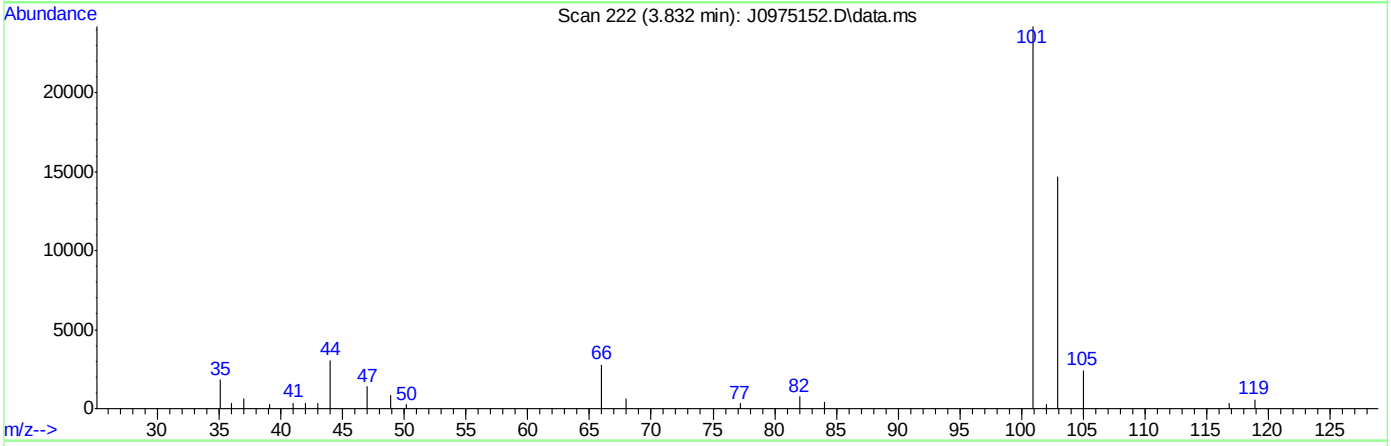
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 5.33ug/L

response 72205

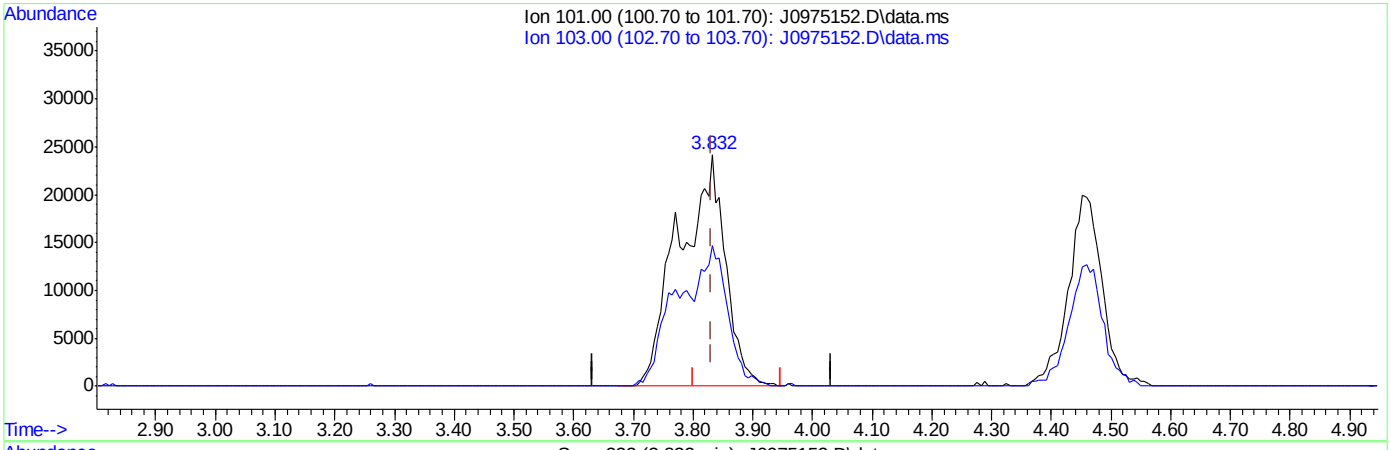
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.65
0.00	0.00	0.00
0.00	0.00	0.00

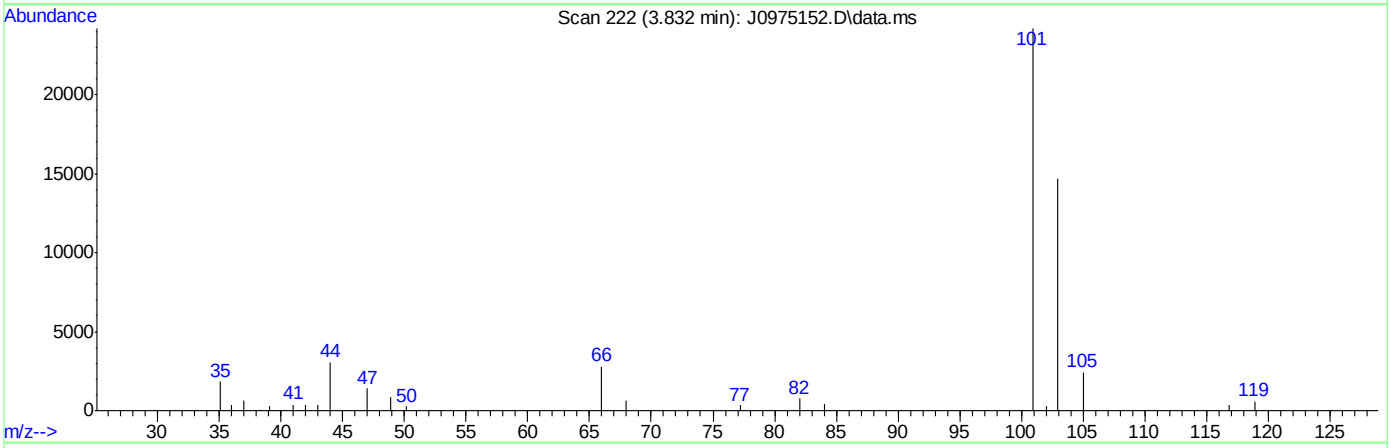
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 9.58ug/L m

response 129700

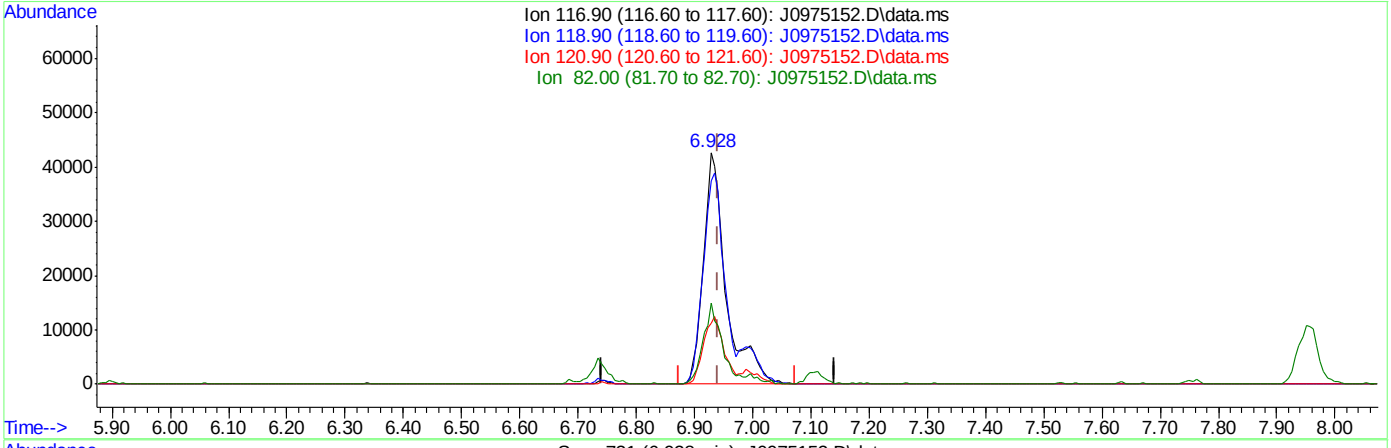
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.65
0.00	0.00	0.00
0.00	0.00	0.00

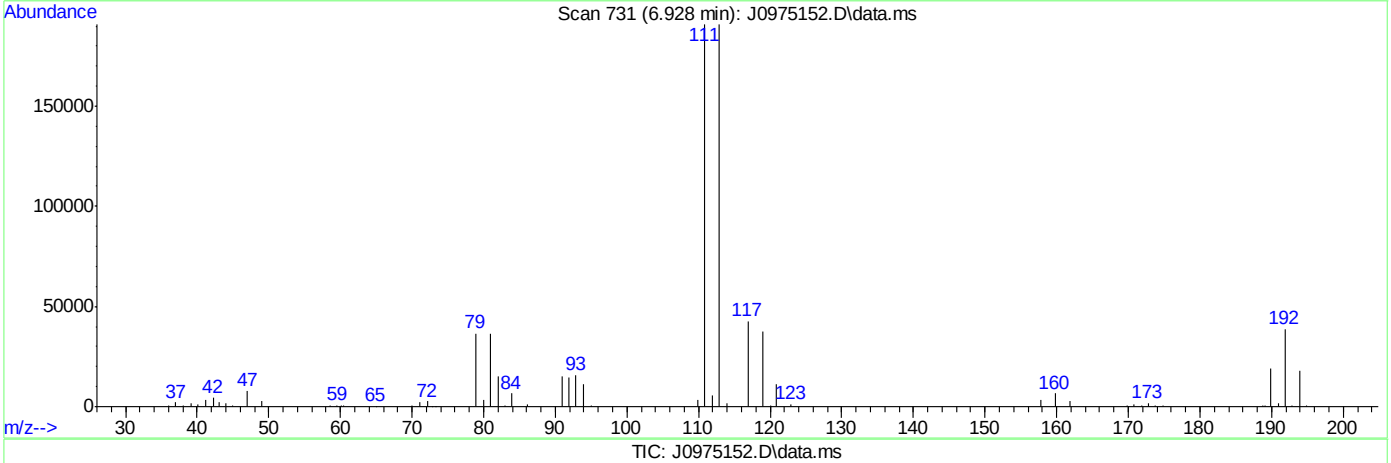
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 10.70ug/L

response 116845

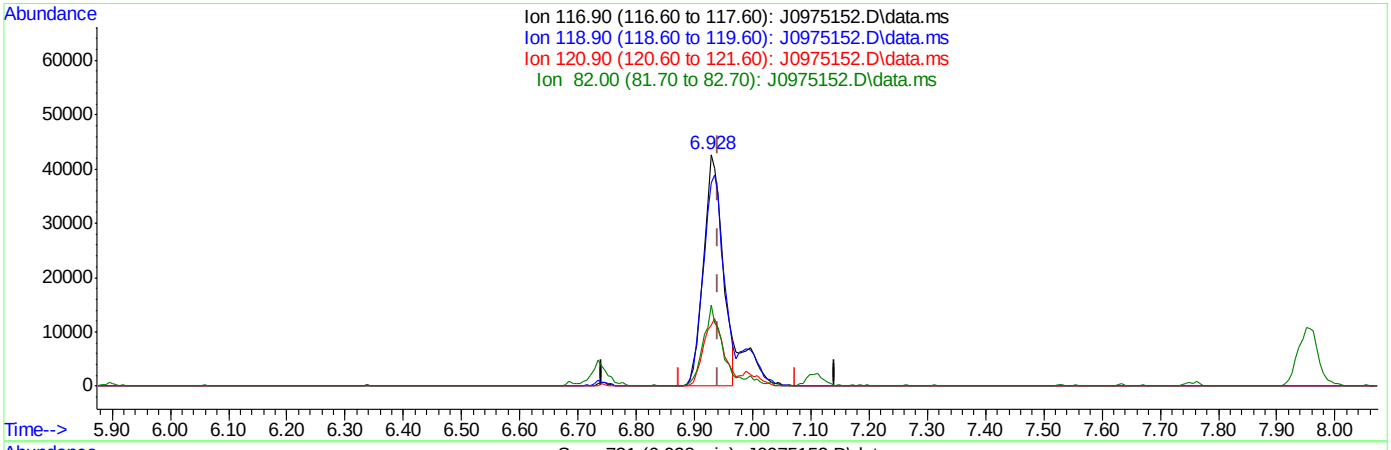
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	87.87
120.90	31.80	26.11
82.00	25.40	35.08

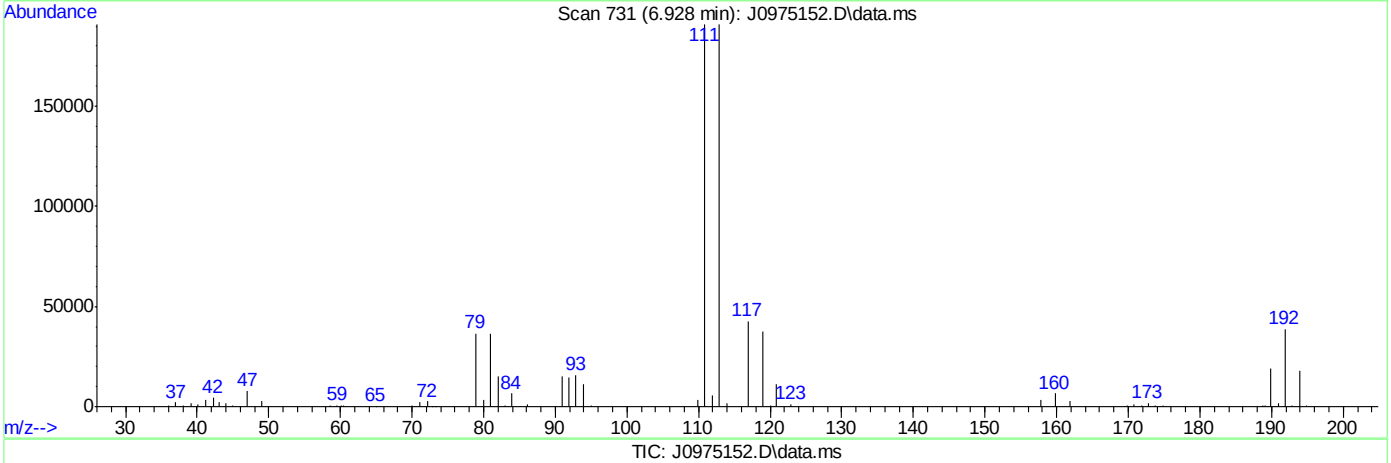
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 8.99ug/L m

response 98194

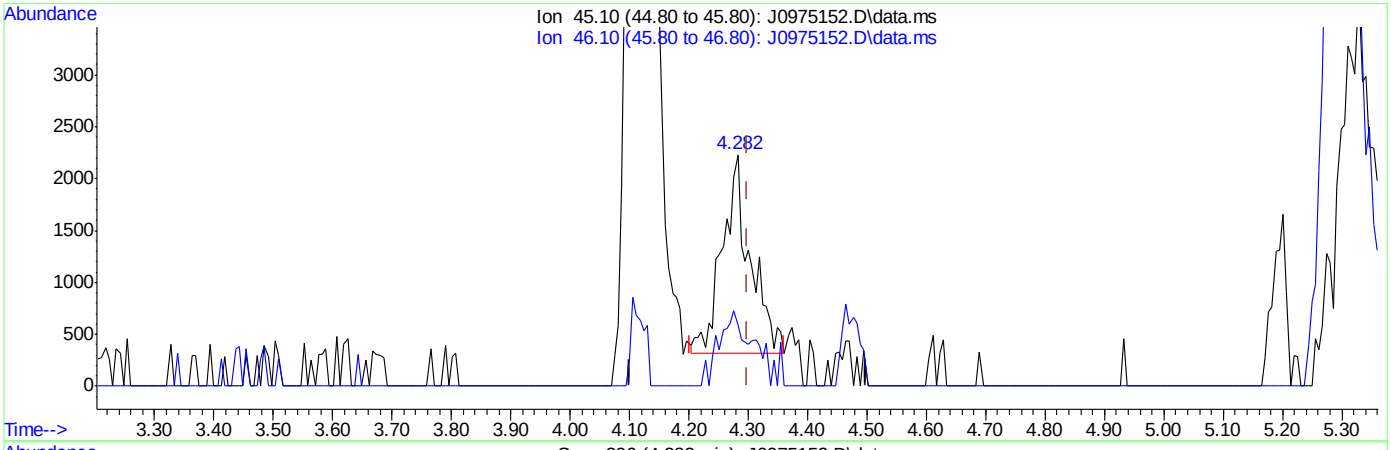
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	87.87
120.90	31.80	26.11
82.00	25.40	35.08

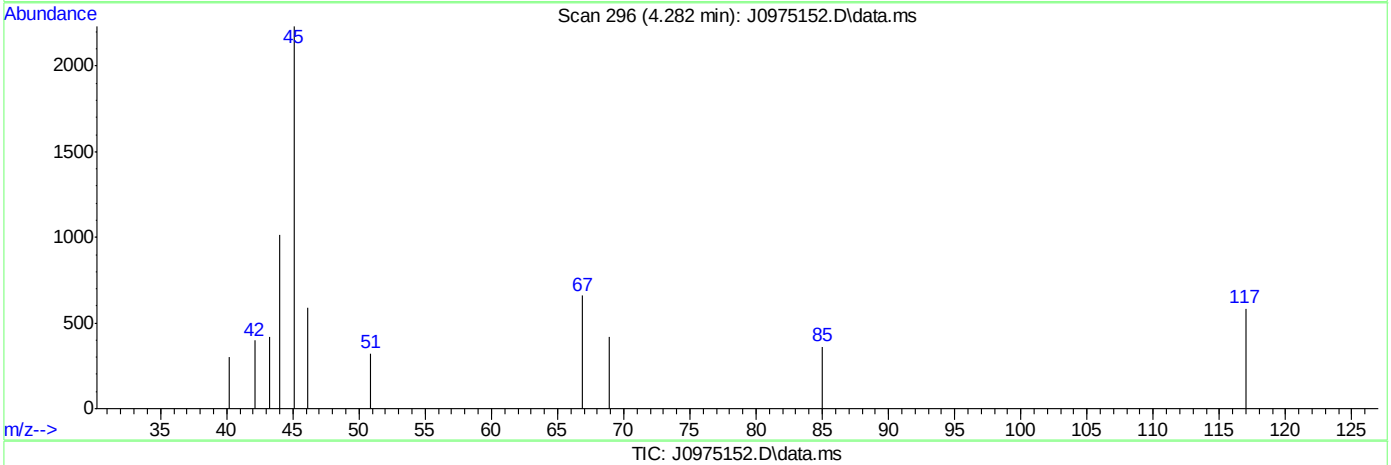
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(107) Ethanol

4.282min (-0.018) 164.75ug/L

response 6214

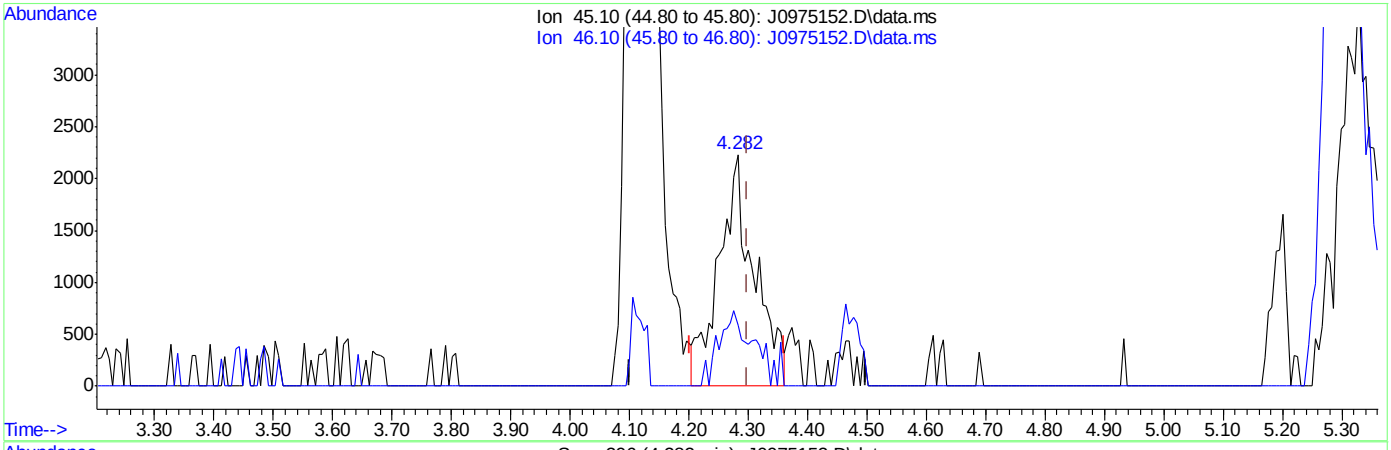
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	30.86
0.00	0.00	0.00
0.00	0.00	0.00

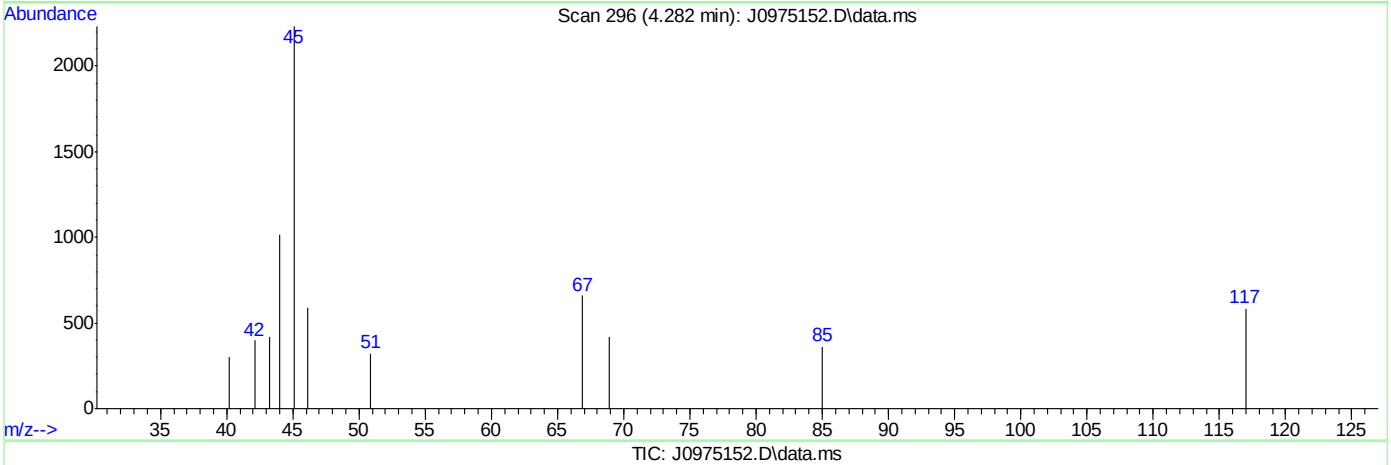
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975152.D
Acq On : 15 Mar 2016 3:05 pm
Operator : DARSHNAP
Sample : IC5237-3 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975152.D\data.ms

(107) Ethanol

4.282min (-0.018) 244.52ug/L m

response 9223

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	26.48
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:21:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.762	96	1533430	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1155545	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	660864	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.310	65	80804	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	385904	49.24	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.48%			
46) 1,2-Dichloroethane-d4	7.482	65	478987	50.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.20%			
57) Toluene-d8	9.301	98	1526389	49.92	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.84%			
79) 4-Bromofluorobenzene	12.057	95	594796	46.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.74%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	236090	23.03	ug/L	96
3) Chloromethane	2.895	50	248511	24.83	ug/L	99
4) Vinyl Chloride	3.041	62	262732	24.99	ug/L	97
5) 1,3-Butadiene	3.041	54	192842	22.81	ug/L	97
6) Bromomethane	3.467	94	183448	29.03	ug/L	99
7) Chloroethane	3.619	64	134383	25.30	ug/L	98
8) Trichlorofluoromethane	3.838	101	324542m	24.10	ug/L	
9) Ethyl Ether	4.124	59	148874	23.39	ug/L	92
10) 1,2-Dichlorotrifluoroe...	4.349	67	221917	24.65	ug/L	99
11) 1,1-Dichloroethene	4.398	61	275821	24.26	ug/L	95
12) Freon 113	4.464	101	193752	25.52	ug/L	97
13) Carbon Disulfide	4.477	76	582506	24.16	ug/L	99
14) Iodomethane	4.586	142	301222	24.20	ug/L	99
15) Allyl chloride	4.921	41	256312	23.95	ug/L	96
16) Methylene Chloride	5.042	49	250982	24.38	ug/L	98
17) Acetone	5.067	58	56549	130.19	ug/L	98
18) Methyl acetate	5.201	74	110573	121.96	ug/L	94
19) trans-1,2-Dichloroethene	5.231	61	254770	23.02	ug/L	98
20) Hexane	5.298	56	165802	24.07	ug/L	98
21) Methyl Tert Butyl Ether	5.334	73	508807	24.59	ug/L	85
22) Acetonitrile	5.590	40	70431	222.21	ug/L	95
23) Di-isopropyl ether	5.718	45	579005	24.29	ug/L	95
24) Chloroprene	5.870	53	268885	22.90	ug/L	98
25) 1,1-Dichloroethane	5.900	63	334371	23.31	ug/L	98
26) Acrylonitrile	5.925	53	252370	126.97	ug/L	96
27) ETBE	6.119	59	598509	25.08	ug/L	99
28) Vinyl acetate	6.113	43	1542708	129.29	ug/L	97
29) cis-1,2-Dichloroethene	6.478	96	214930	23.50	ug/L	99
30) 2,2-Dichloropropane	6.606	77	262403	24.38	ug/L	95
31) Bromochloromethane	6.685	128	96920	22.82	ug/L	93
32) Cyclohexane	6.734	56	324888	25.37	ug/L	97
33) Chloroform	6.740	83	376439	24.05	ug/L	98
34) Ethyl acetate	6.813	43	597459	125.36	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:21:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.922	42	33527	24.42	ug/L	92
37)	Carbon Tetrachloride	6.934	117	262480m	24.16	ug/L	
38)	1,1,1-Trichloroethane	6.995	97	318246	24.16	ug/L	96
39)	2-Butanone	7.026	43	237967	114.01	ug/L	99
40)	1,1-Dichloropropene	7.105	75	262106	24.02	ug/L	99
41)	tert-Butyl Formate	7.190	59	1165018	241.25	ug/L	87
42)	Propionitrile	7.336	54	169075	233.16	ug/L	87
43)	Methacrylonitrile	7.360	41	781087	236.37	ug/L	96
44)	Benzene	7.360	78	797780	24.00	ug/L	100
45)	TAME	7.433	73	528216	25.10	ug/L	95
47)	1,2-Dichloroethane	7.549	62	269892	23.52	ug/L	98
48)	Trichloroethene	7.938	95	204516	23.33	ug/L	96
49)	Methylcyclohexane	7.956	83	351296	25.39	ug/L	99
50)	Dibromomethane	8.364	93	110710	24.27	ug/L	99
51)	1,2-Dichloropropane	8.449	63	197382	24.13	ug/L	99
52)	Bromodichloromethane	8.498	83	253035	24.02	ug/L	99
53)	Methyl methacrylate	8.595	41	106473	24.18	ug/L	94
54)	2-Chloroethyl vinyl ether	9.009	63	533856	122.44	ug/L	99
55)	cis-1,3-Dichloropropene	9.112	75	298406	25.11	ug/L	95
58)	Toluene	9.356	91	835217	23.62	ug/L	96
59)	2-Nitropropane	9.556	41	159940	113.53	ug/L	99
60)	4-Methyl-2-pentanone	9.672	43	610403	121.12	ug/L	98
61)	trans-1,3-Dichloropropene	9.739	75	248569	24.99	ug/L	96
62)	Tetrachloroethene	9.757	166	221333	22.50	ug/L	99
63)	Ethyl methacrylate	9.842	69	198559	22.96	ug/L	97
64)	1,1,2-Trichloroethane	9.903	83	138084	24.30	ug/L	97
65)	Dibromochloromethane	10.104	129	173760	23.68	ug/L	97
66)	1,3-Dichloropropane	10.183	76	279208	24.02	ug/L	96
67)	1,2-Dibromoethane	10.366	107	155004	25.02	ug/L	99
68)	2-hexanone	10.487	43	407879	118.99	ug/L	96
69)	1-Chlorohexane	10.797	91	250072	23.55	ug/L	98
70)	Ethylbenzene	10.864	91	966996	23.63	ug/L	99
71)	Chlorobenzene	10.864	112	542095	23.50	ug/L	93
72)	1,1,1,2-Tetrachloroethane	10.913	131	181972	24.59	ug/L	97
73)	m,p-Xylene	10.998	91	1479689	47.57	ug/L	98
74)	o-Xylene	11.436	91	757610	25.01	ug/L	98
75)	Styrene	11.485	104	576061	25.73	ug/L	98
76)	Bromoform	11.552	173	105048	25.68	ug/L	97
77)	Isopropylbenzene	11.747	105	895282	23.97	ug/L	99
80)	cis-1,4-Dichloro-2-butene	12.087	53	54472	31.42	ug/L	90
81)	n-Propylbenzene	12.160	91	1088512	23.62	ug/L	100
82)	Bromobenzene	12.185	156	240631	22.50	ug/L	98
83)	1,1,2,2-Tetrachloroethane	12.221	83	198304	25.30	ug/L	98
84)	1,3,5-Trimethylbenzene	12.343	105	824062	24.01	ug/L	99
85)	2-Chlorotoluene	12.355	91	783191	23.47	ug/L	97
86)	trans-1,4-Dichloro-2-B...	12.404	53	49038	29.39	ug/L	89
87)	1,2,3-Trichloropropane	12.385	110	49418	22.94	ug/L	93
88)	Cyclohexanone	12.452	55	14654	111.57	ug/L	94
89)	4-Chlorotoluene	12.519	91	691016	22.55	ug/L	99
90)	a-Methyl Styrene	12.610	118	225477	23.53	ug/L	99

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:21:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	469170	23.19	ug/L	94
92) 1,2,4-Trimethylbenzene	12.756	105	829299	24.13	ug/L	99
93) Pentachloroethane	12.738	167	136417	27.26	ug/L	97
94) sec-Butylbenzene	12.872	105	1000249	24.47	ug/L	100
95) 4-Isopropyltoluene	13.000	119	843251	24.76	ug/L	99
96) 1,3-Dichlorobenzene	13.140	146	437811	23.91	ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	451698	23.23	ug/L	95
98) n-Butylbenzene	13.432	92	482211	24.72	ug/L	98
99) Benzyl Chloride	13.450	126	59122	25.52	ug/L #	93
100) 1,2-Dichlorobenzene	13.645	146	416704	25.05	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	28131	39.89	ug/L	91
102) Hexachlorobutadiene	14.928	225	186738	34.17	ug/L	96
103) 1,2,4-Trichlorobenzene	14.977	180	312376	49.18	ug/L	99
104) Naphthalene	15.257	128	500811	59.09	ug/L	97
105) 1,2,3-Trichlorobenzene	15.427	180	273581	61.74	ug/L	99
107) Ethanol	4.282	45	18758m	535.26	ug/L	
108) acrolein	4.763	56	132543	148.76	ug/L	96
109) Tert Butyl Alcohol	5.383	59	97091	258.68	ug/L	95
110) tert Amyl alcohol	7.579	59	72108	257.53	ug/L	86
111) Isobutyl alcohol	7.452	42	73885	499.48	ug/L #	82
112) 1,4-Dioxane	8.674	88	16071	449.14	ug/L	87
113) 3,3-Dimethyl-1-butanol	10.439	57	441948	1363.94	ug/L	96

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

7.6.4

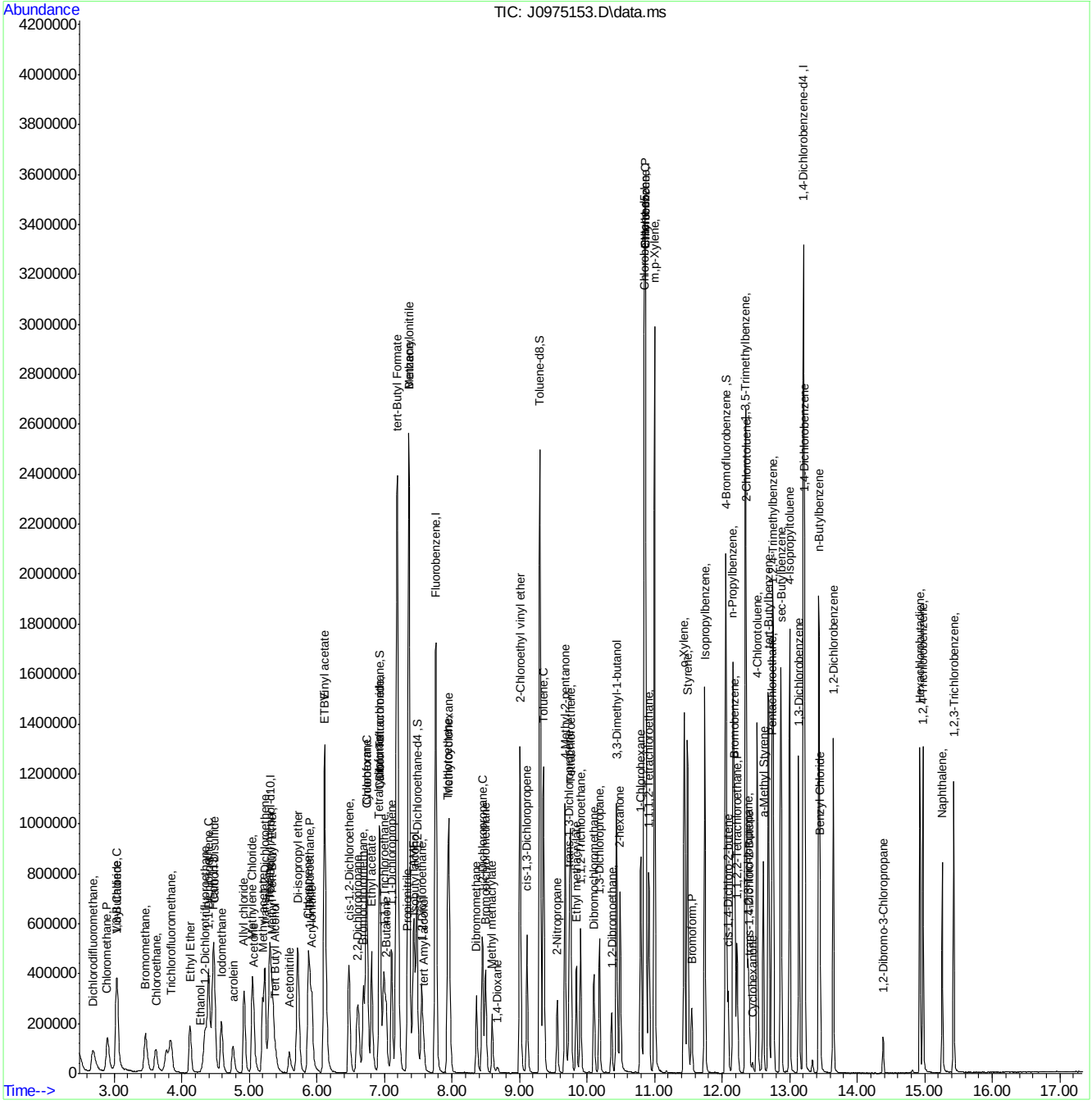
7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:21:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33763

Manual Integration Approval Summary

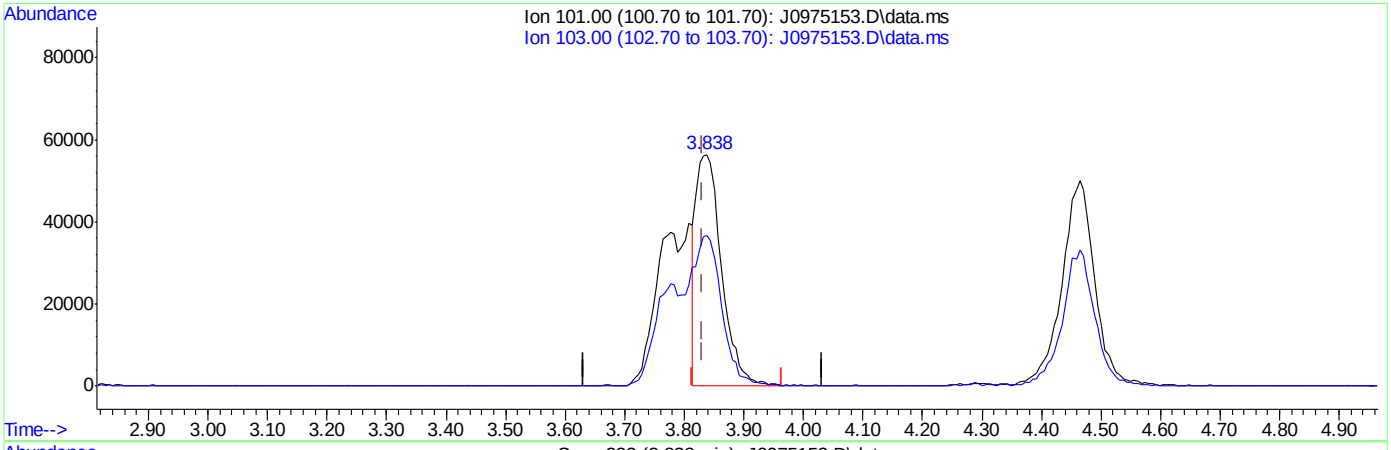
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975153.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 15:28	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

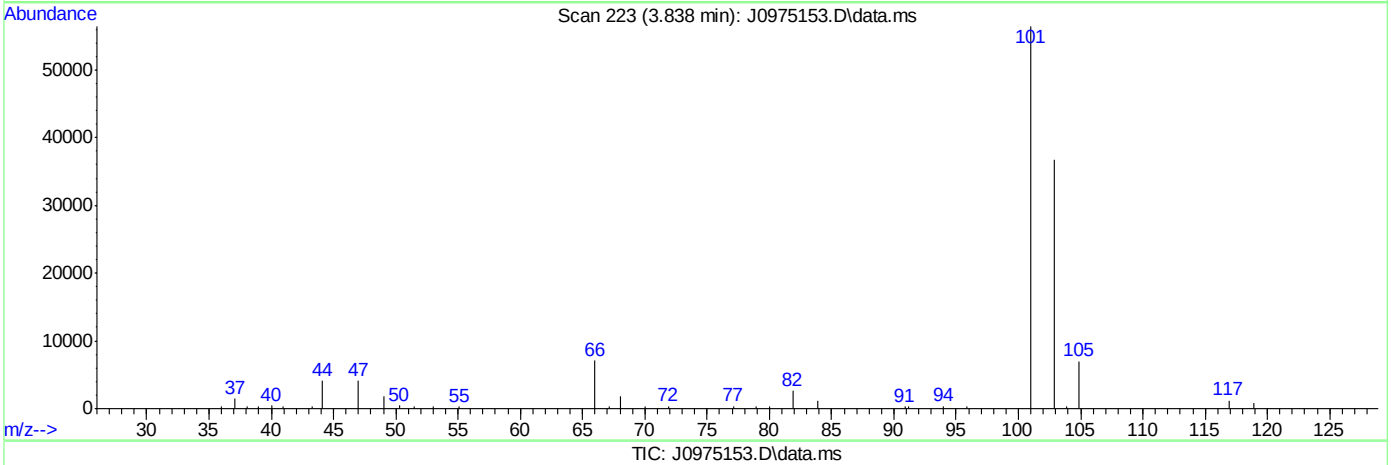
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 12.38ug/L

response 166709

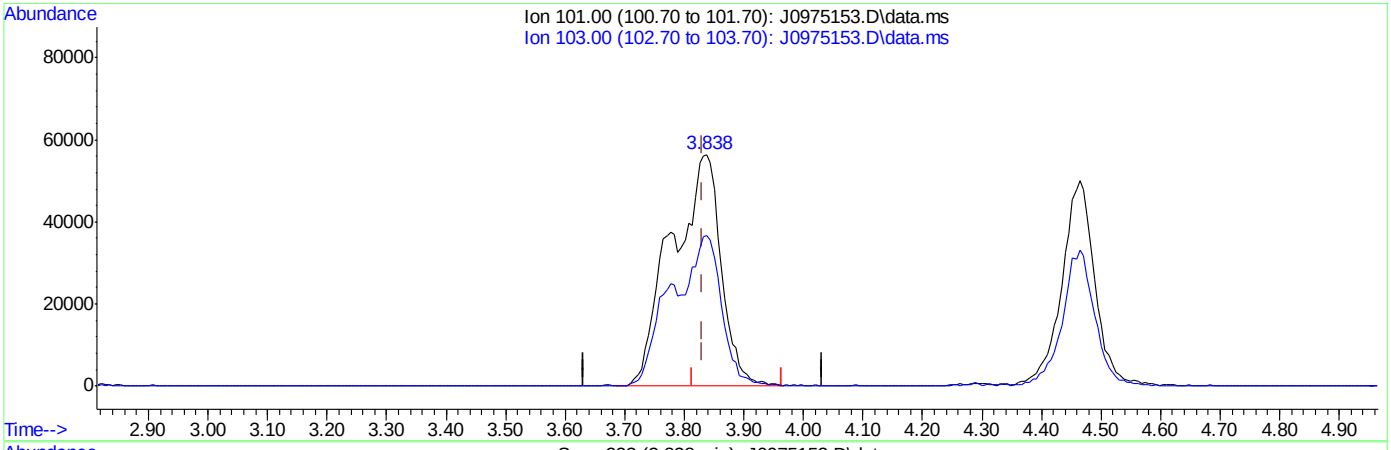
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	65.20
0.00	0.00	0.00
0.00	0.00	0.00

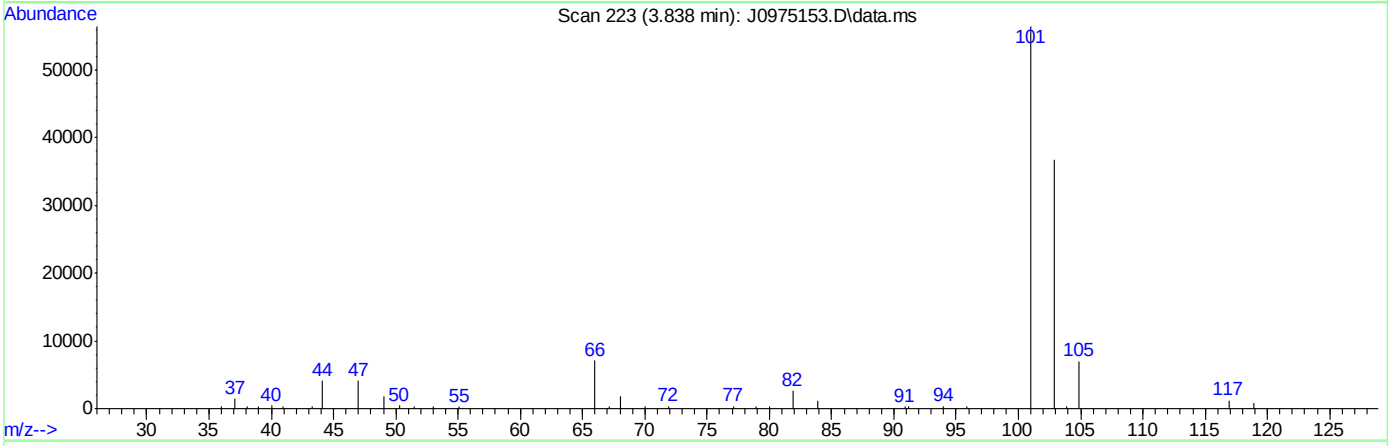
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 24.10ug/L m

response 324542

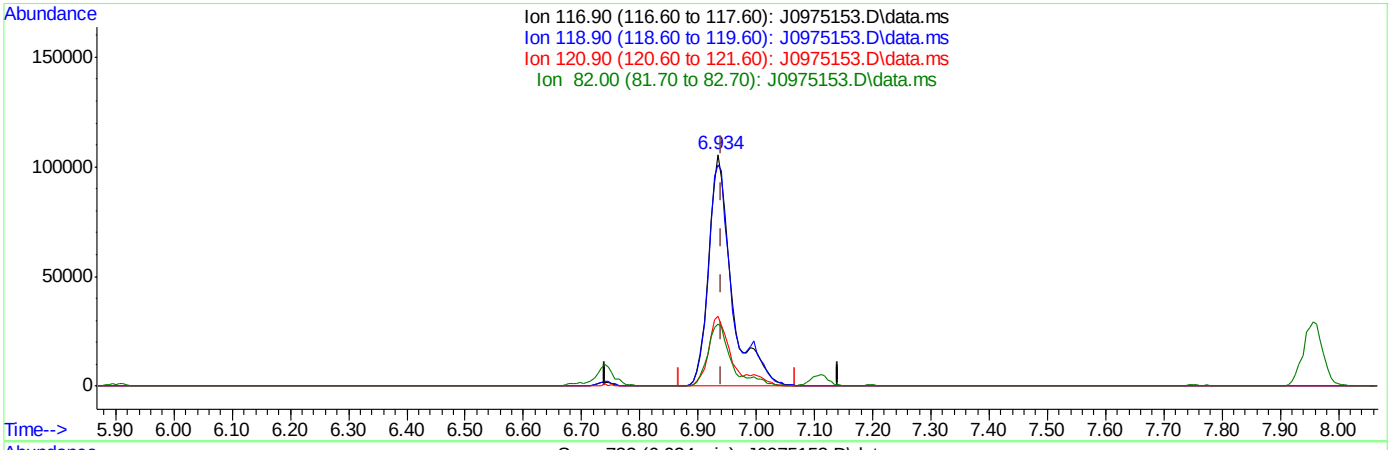
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	65.20
0.00	0.00	0.00
0.00	0.00	0.00

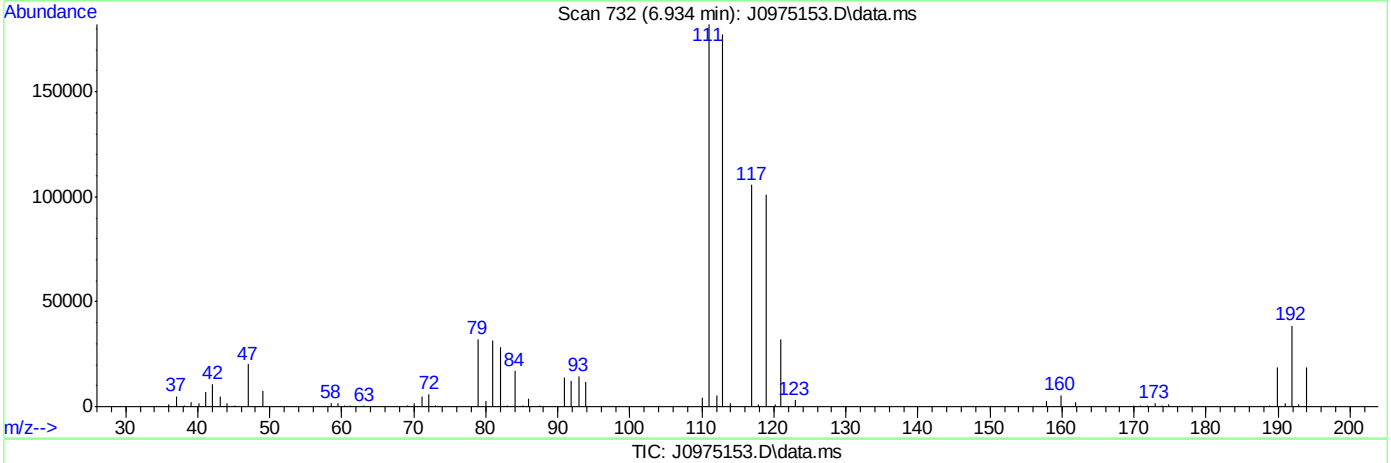
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 27.13ug/L

response 294752

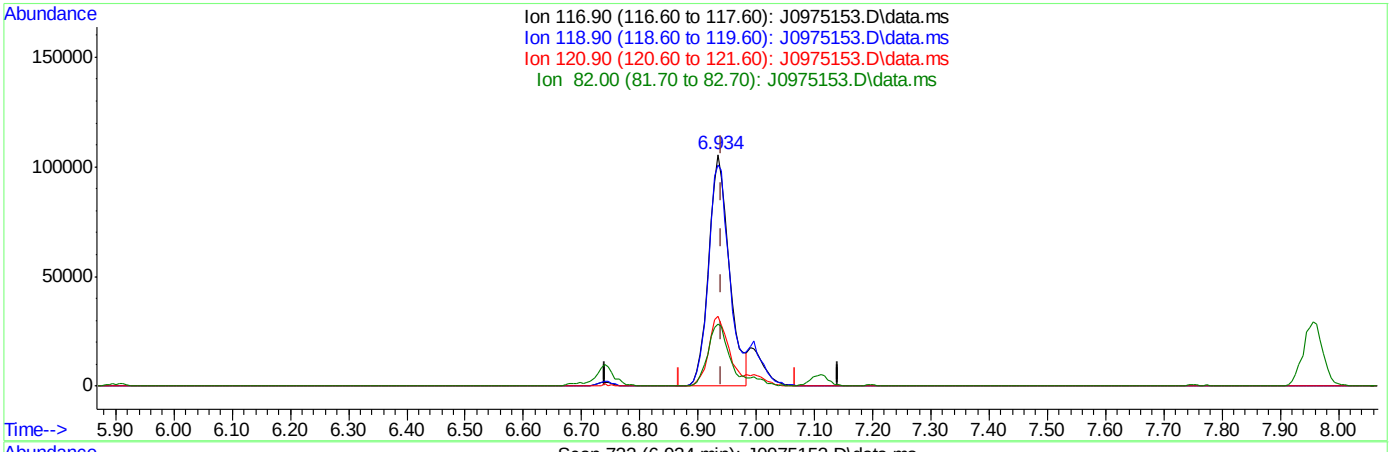
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.48
120.90	31.80	30.27
82.00	25.40	26.77

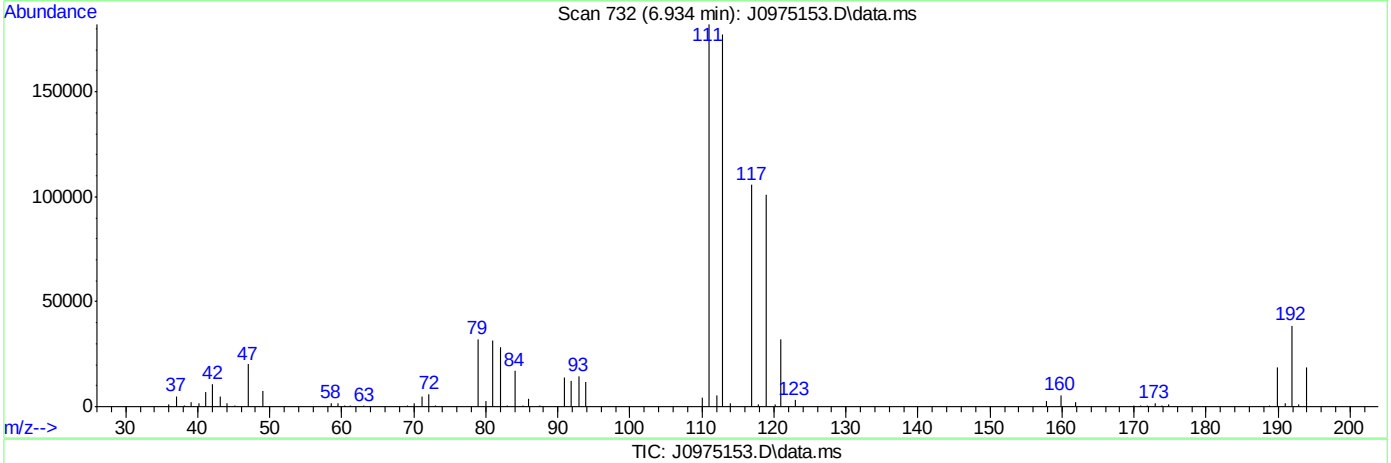
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 24.16ug/L m

response 262480

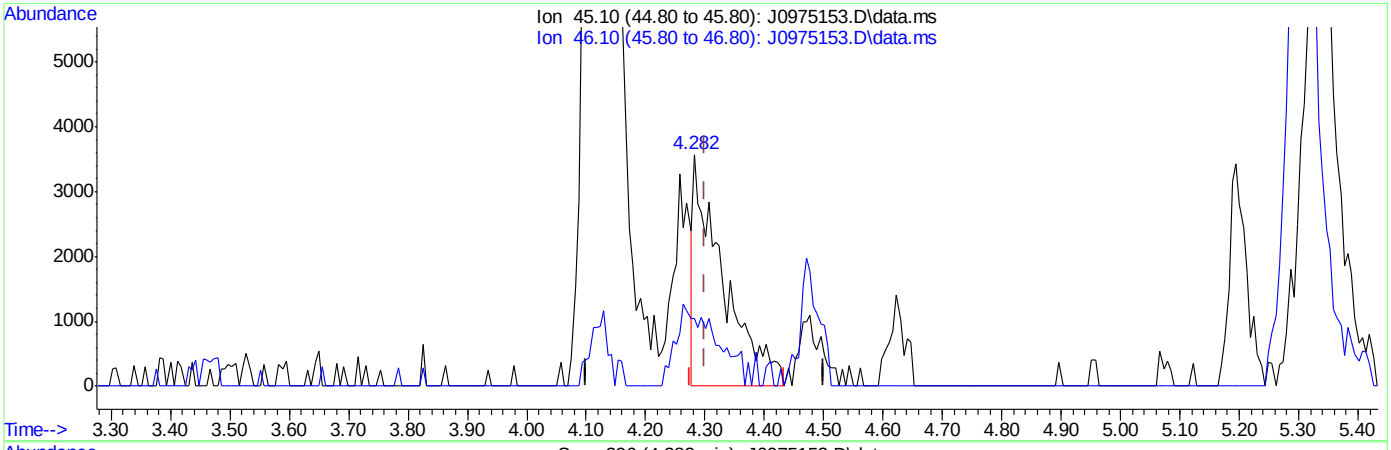
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.48
120.90	31.80	30.27
82.00	25.40	26.77

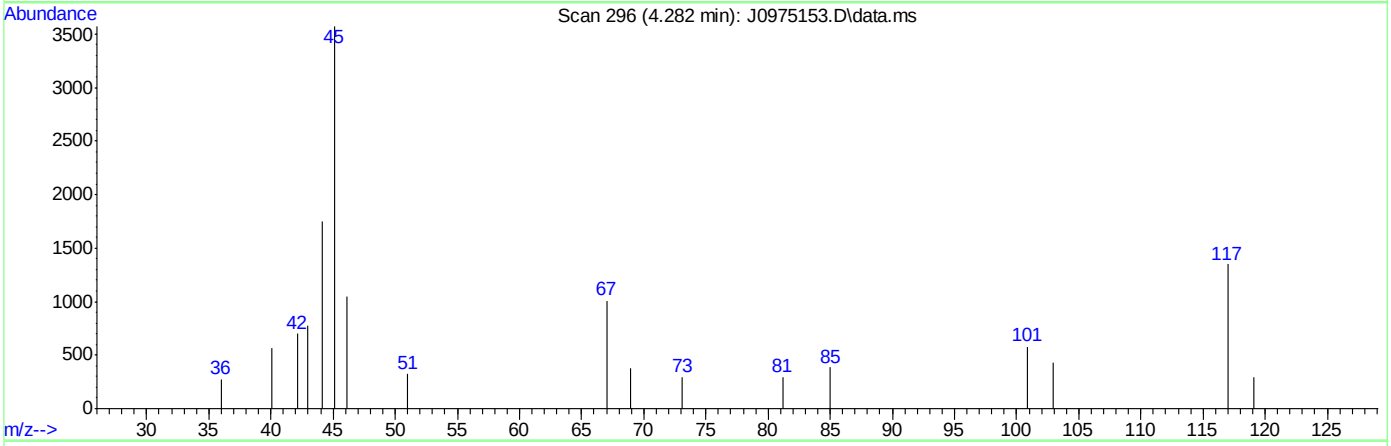
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(107) Ethanol

4.282min (-0.018) 352.95ug/L

response 12369

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.42
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
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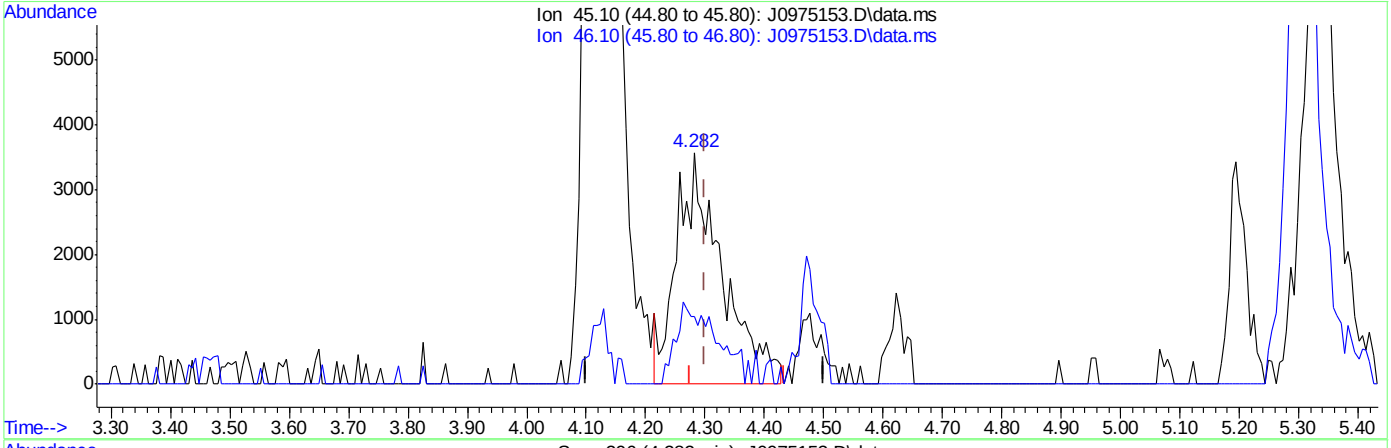
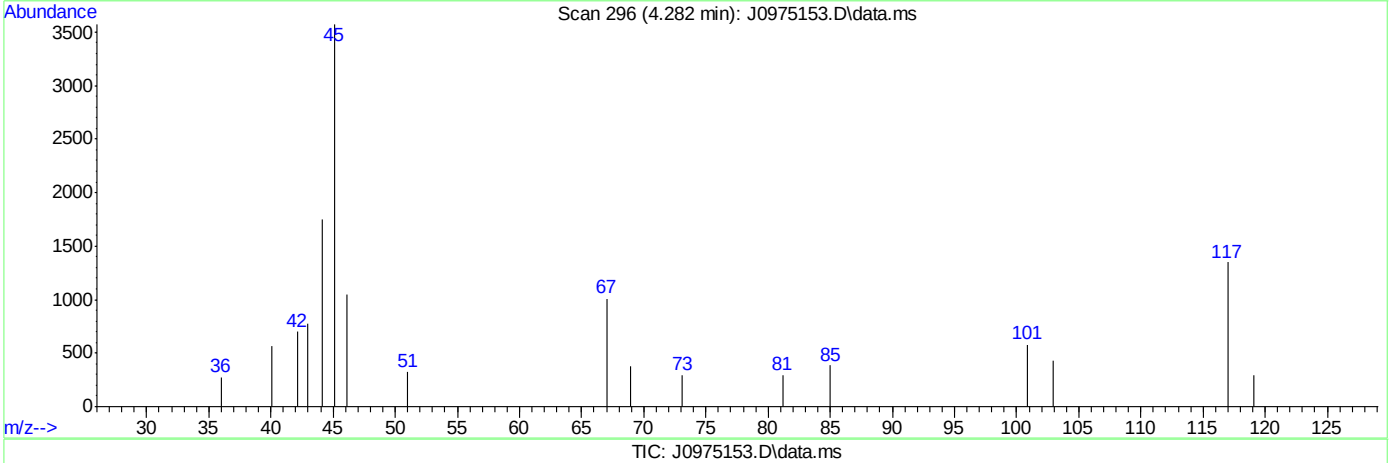




TIC: J0975153.D\data.ms

(107) Ethanol

4.282min (-0.018) 535.26ug/L m

response 18758

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.42
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:22:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1586569	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1198090	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	683182	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	86536	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.929	113	408048	50.32	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.64%			
46) 1,2-Dichloroethane-d4	7.482	65	482966	49.31	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.62%			
57) Toluene-d8	9.301	98	1558079	49.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.28%			
79) 4-Bromofluorobenzene	12.057	95	616289	46.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	415271	39.15	ug/L	96
3) Chloromethane	2.901	50	424351	41.25	ug/L	100
4) Vinyl Chloride	3.041	62	445143	40.92	ug/L	94
5) 1,3-Butadiene	3.035	54	315692	36.10	ug/L	96
6) Bromomethane	3.461	94	289547	47.95	ug/L	99
7) Chloroethane	3.613	64	208091	40.89	ug/L	98
8) Trichlorofluoromethane	3.838	101	561191m	40.27	ug/L	
9) Ethyl Ether	4.118	59	255135	38.75	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.355	67	378597	40.65	ug/L	99
11) 1,1-Dichloroethene	4.392	61	464099	39.46	ug/L	98
12) Freon 113	4.465	101	322937	41.11	ug/L	99
13) Carbon Disulfide	4.471	76	980388	39.30	ug/L	97
14) Iodomethane	4.586	142	519003	40.30	ug/L	99
15) Allyl chloride	4.921	41	426981	38.56	ug/L	94
16) Methylene Chloride	5.043	49	421451	40.00	ug/L	95
17) Acetone	5.067	58	87983	194.56	ug/L	89
18) Methyl acetate	5.195	74	192440	205.15	ug/L	99
19) trans-1,2-Dichloroethene	5.225	61	434370	37.94	ug/L	98
20) Hexane	5.304	56	278304	39.05	ug/L	96
21) Methyl Tert Butyl Ether	5.335	73	873948	40.83	ug/L	83
22) Acetonitrile	5.584	40	111089	342.69	ug/L	91
23) Di-isopropyl ether	5.718	45	1011013	40.99	ug/L	99
24) Chloroprene	5.870	53	468107	38.53	ug/L	98
25) 1,1-Dichloroethane	5.900	63	571199	38.49	ug/L	99
26) Acrylonitrile	5.925	53	404863	196.86	ug/L	95
27) ETBE	6.113	59	1034777	41.91	ug/L	99
28) Vinyl acetate	6.113	43	2522469	204.32	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	375158	39.64	ug/L	96
30) 2,2-Dichloropropane	6.606	77	452177	40.61	ug/L	97
31) Bromochloromethane	6.685	128	170819	38.87	ug/L	98
32) Cyclohexane	6.734	56	547845	41.34	ug/L	95
33) Chloroform	6.740	83	640283	39.53	ug/L	97
34) Ethyl acetate	6.807	43	962139	195.12	ug/L	100

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:22:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	56284	39.45	ug/L	91
37) Carbon Tetrachloride	6.935	117	459299m	40.87	ug/L	
38) 1,1,1-Trichloroethane	6.995	97	555621	40.77	ug/L	96
39) 2-Butanone	7.026	43	404230	187.23	ug/L	97
40) 1,1-Dichloropropene	7.105	75	441244	39.08	ug/L	98
41) tert-Butyl Formate	7.190	59	1946975	388.88	ug/L	90
42) Propionitrile	7.336	54	278535	371.24	ug/L	95
43) Methacrylonitrile	7.360	41	1256833	377.12	ug/L	95
44) Benzene	7.360	78	1357482	39.47	ug/L	99
45) TAME	7.433	73	922804	42.38	ug/L	98
47) 1,2-Dichloroethane	7.549	62	457821	38.56	ug/L	98
48) Trichloroethene	7.938	95	344581	37.99	ug/L	97
49) Methylcyclohexane	7.957	83	597642	41.74	ug/L	99
50) Dibromomethane	8.364	93	198020	41.96	ug/L	98
51) 1,2-Dichloropropane	8.449	63	342560	40.48	ug/L	97
52) Bromodichloromethane	8.498	83	445682	40.89	ug/L	99
53) Methyl methacrylate	8.595	41	181806	39.91	ug/L	97
54) 2-Chloroethyl vinyl ether	9.009	63	866218	193.77	ug/L	97
55) cis-1,3-Dichloropropene	9.113	75	520569	42.33	ug/L	97
58) Toluene	9.356	91	1409718	39.36	ug/L	99
59) 2-Nitropropane	9.557	41	283671	194.21	ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	1017283	194.69	ug/L	99
61) trans-1,3-Dichloropropene	9.739	75	446417	43.29	ug/L	96
62) Tetrachloroethene	9.757	166	384918	37.75	ug/L	98
63) Ethyl methacrylate	9.843	69	339257	37.79	ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	237256	40.26	ug/L	98
65) Dibromochloromethane	10.104	129	309572	40.48	ug/L	98
66) 1,3-Dichloropropane	10.183	76	483827	40.15	ug/L	98
67) 1,2-Dibromoethane	10.360	107	271883	42.33	ug/L	96
68) 2-hexanone	10.487	43	687786	193.52	ug/L	97
69) 1-Chlorohexane	10.798	91	435688	39.57	ug/L	98
70) Ethylbenzene	10.859	91	1639107	40.00	ug/L	100
71) Chlorobenzene	10.865	112	953873	40.30	ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.913	131	320629	41.79	ug/L	97
73) m,p-Xylene	10.998	91	2459561	81.21	ug/L	97
74) o-Xylene	11.436	91	1307404	41.63	ug/L	99
75) Styrene	11.485	104	993416	42.79	ug/L	98
76) Bromoform	11.546	173	185461	42.90	ug/L	98
77) Isopropylbenzene	11.741	105	1531567	40.66	ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	90262	50.36	ug/L	94
81) n-Propylbenzene	12.160	91	1827678	38.36	ug/L	99
82) Bromobenzene	12.185	156	421116	38.09	ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.221	83	342225	42.23	ug/L	100
84) 1,3,5-Trimethylbenzene	12.343	105	1426304	40.21	ug/L	100
85) 2-Chlorotoluene	12.349	91	1311770	38.02	ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	83427	47.19	ug/L #	78
87) 1,2,3-Trichloropropane	12.385	110	88036	39.52	ug/L	95
88) Cyclohexanone	12.452	55	25515	187.91	ug/L	90
89) 4-Chlorotoluene	12.519	91	1204575	38.03	ug/L	99
90) a-Methyl Styrene	12.611	118	391096	39.49	ug/L	99

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:22:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.684	91	806108	38.54	ug/L		96
92)	1,2,4-Trimethylbenzene	12.751	105	1420845	40.00	ug/L		99
93)	Pentachloroethane	12.738	167	226954	42.38	ug/L		96
94)	sec-Butylbenzene	12.872	105	1692642	40.05	ug/L		98
95)	4-Isopropyltoluene	13.000	119	1429582	40.60	ug/L		97
96)	1,3-Dichlorobenzene	13.134	146	741697	39.18	ug/L		96
97)	1,4-Dichlorobenzene	13.219	146	774353	38.52	ug/L		94
98)	n-Butylbenzene	13.432	92	822978	40.81	ug/L		98
99)	Benzyl Chloride	13.450	126	117906	46.76	ug/L	#	74
100)	1,2-Dichlorobenzene	13.645	146	714095	41.52	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.381	75	52670	68.74	ug/L		93
102)	Hexachlorobutadiene	14.928	225	324044	56.03	ug/L		97
103)	1,2,4-Trichlorobenzene	14.971	180	547353	78.54	ug/L		97
104)	Naphthalene	15.257	128	877863	89.67	ug/L		100
105)	1,2,3-Trichlorobenzene	15.427	180	478341	93.59	ug/L		97
107)	Ethanol	4.276	45	29706m	791.51	ug/L		
108)	acrolein	4.757	56	206891	216.83	ug/L		92
109)	Tert Butyl Alcohol	5.377	59	171596	426.90	ug/L		83
110)	tert Amyl alcohol	7.573	59	128641	429.01	ug/L		95
111)	Isobutyl alcohol	7.452	42	123504	800.53	ug/L	#	86
112)	1,4-Dioxane	8.668	88	28170	735.12	ug/L		95
113)	3,3-Dimethyl-1-butanol	10.433	57	765808	2133.22	ug/L		97

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

7.6.5

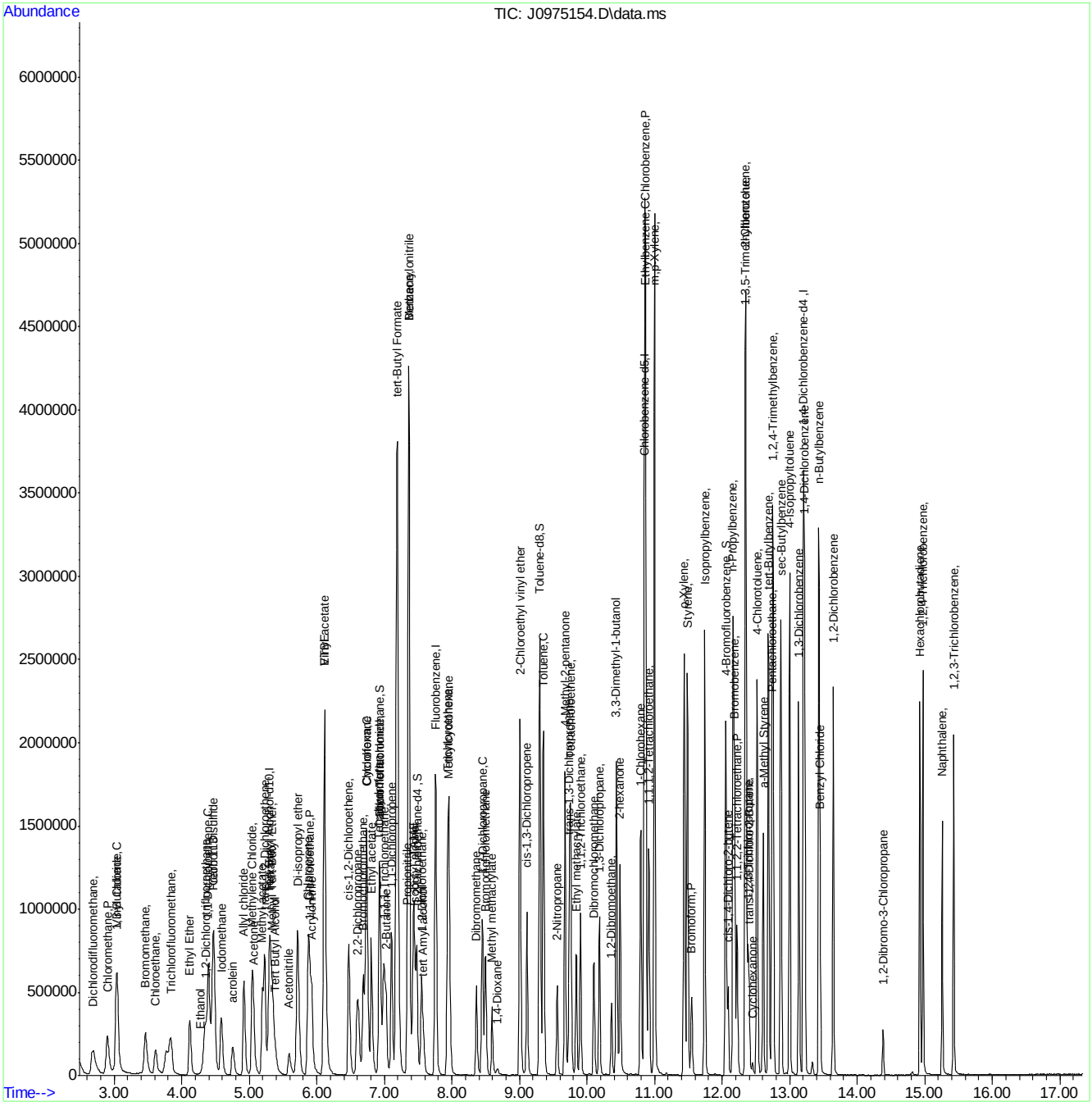
7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:22:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33763

Manual Integration Approval Summary

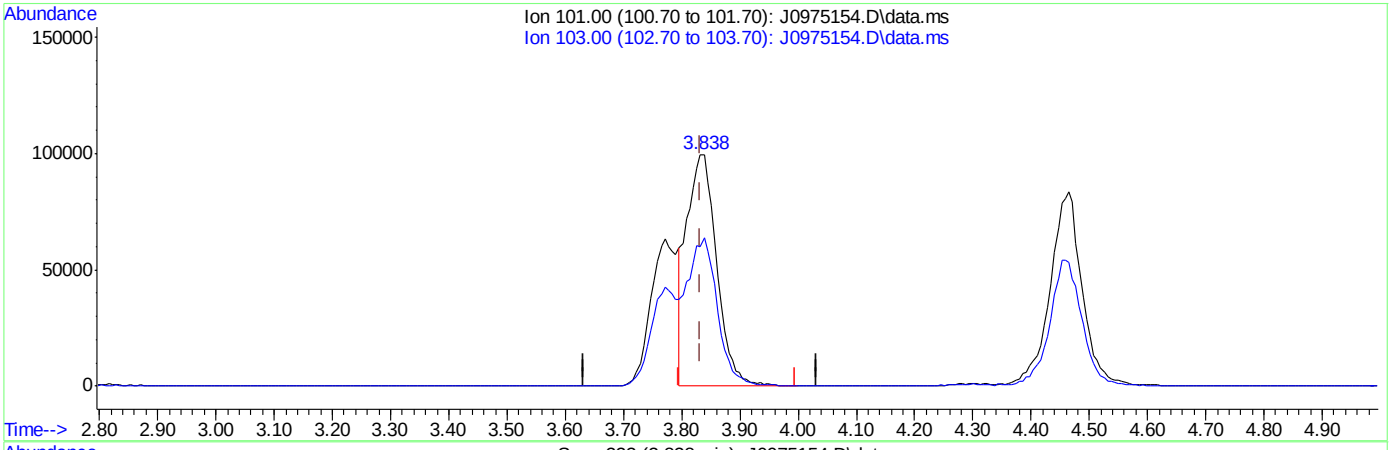
Sample Number:	VJ5237-ICC5237	**Method:**	SW846 8260B
Lab FileID:	J0975154.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 15:51	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

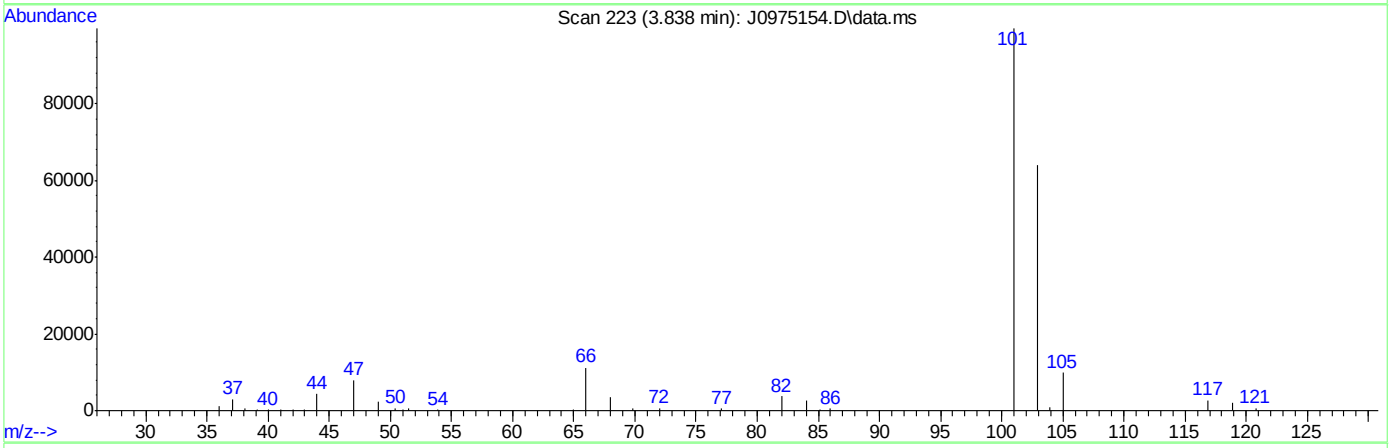
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 25.59ug/L

response 356542

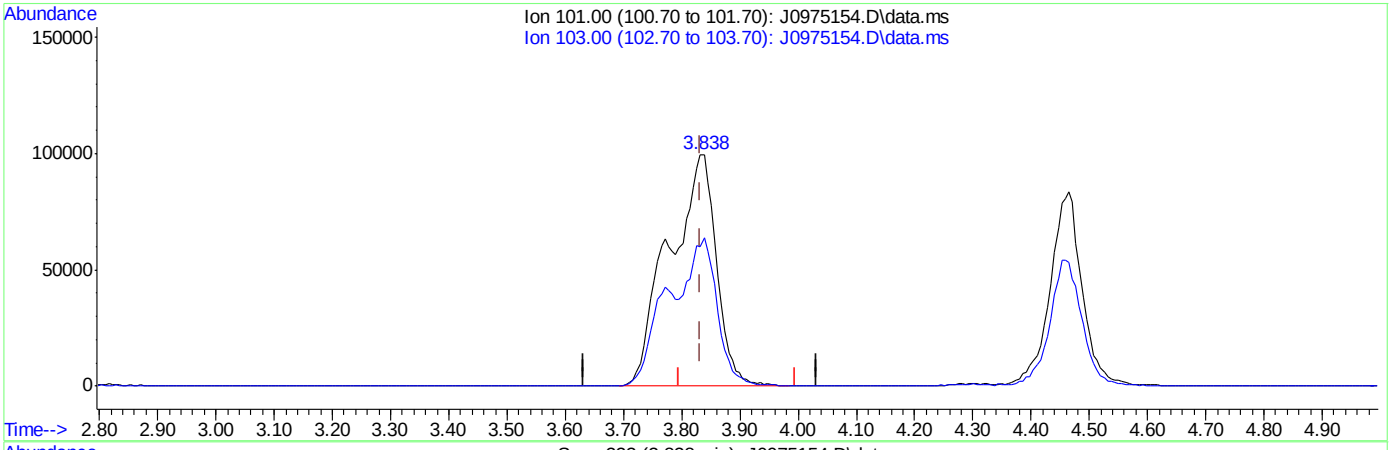
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.12
0.00	0.00	0.00
0.00	0.00	0.00

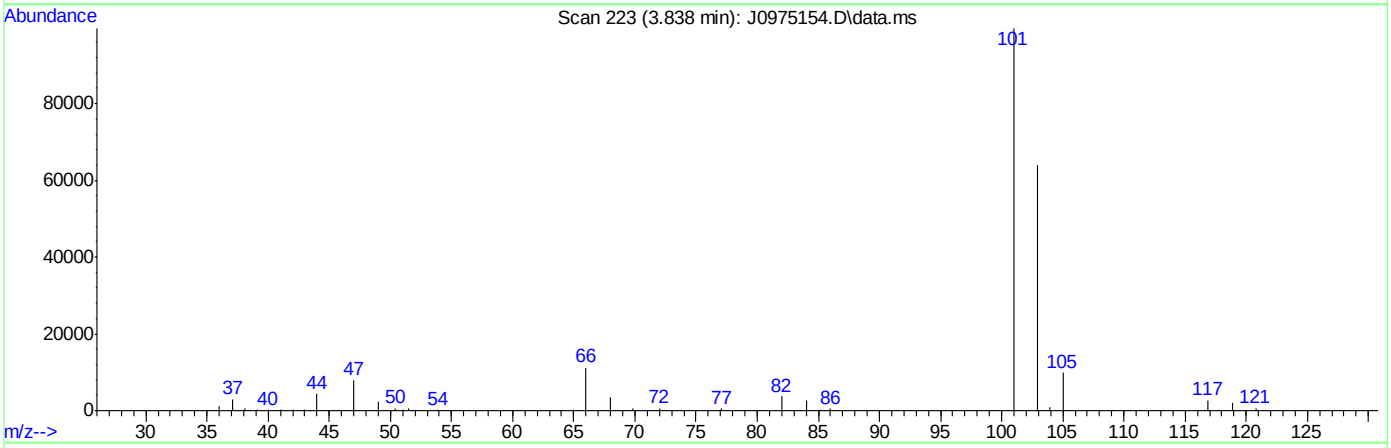
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 40.27ug/L m

response 561191

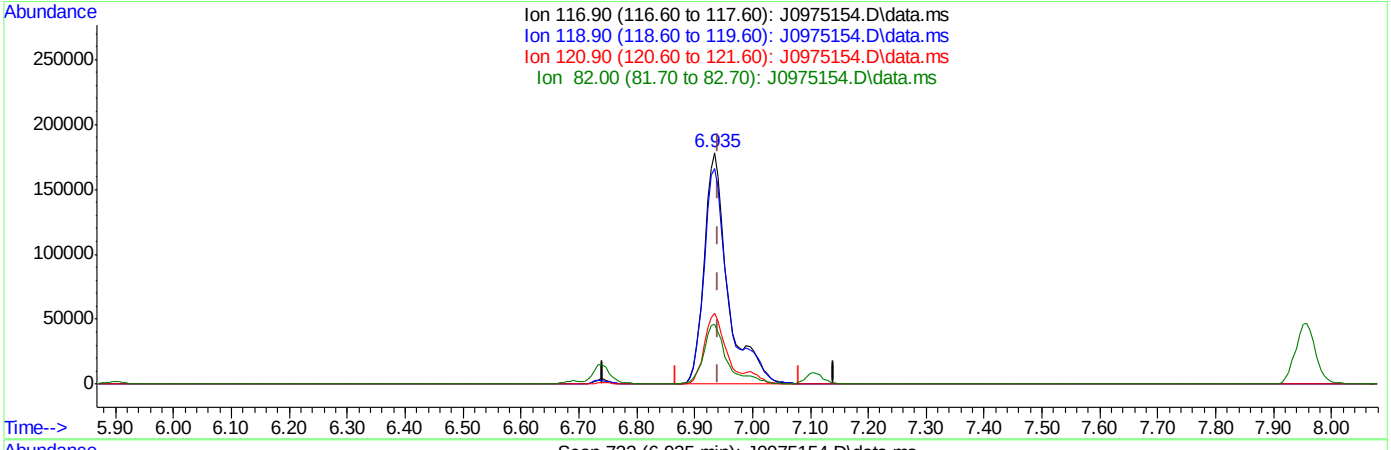
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.12
0.00	0.00	0.00
0.00	0.00	0.00

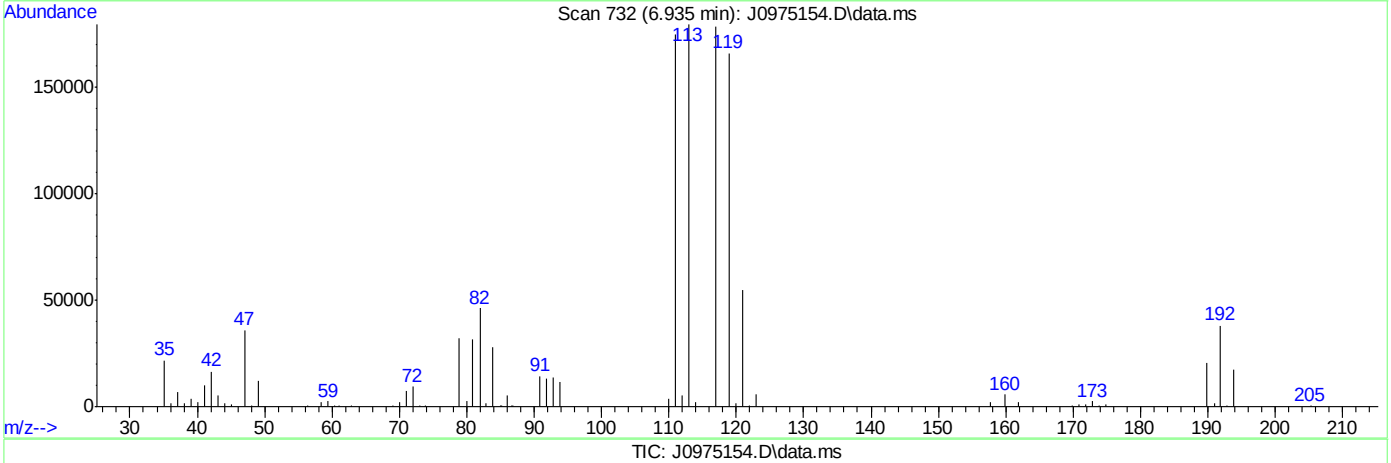
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 45.76ug/L

response 514333

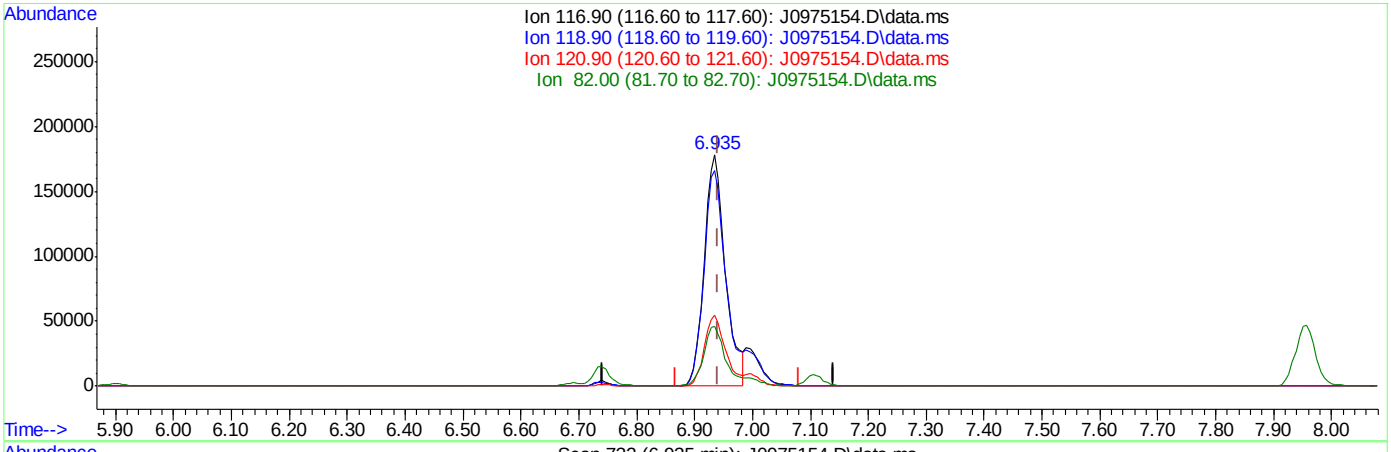
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	92.97
120.90	31.80	30.81
82.00	25.40	25.83

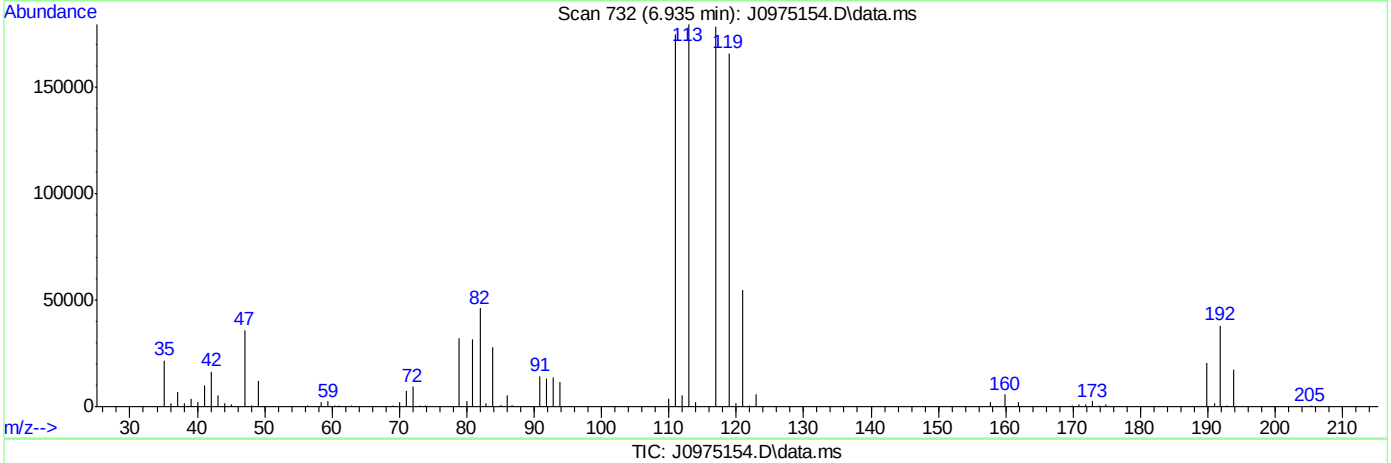
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 40.87ug/L m

response 459299

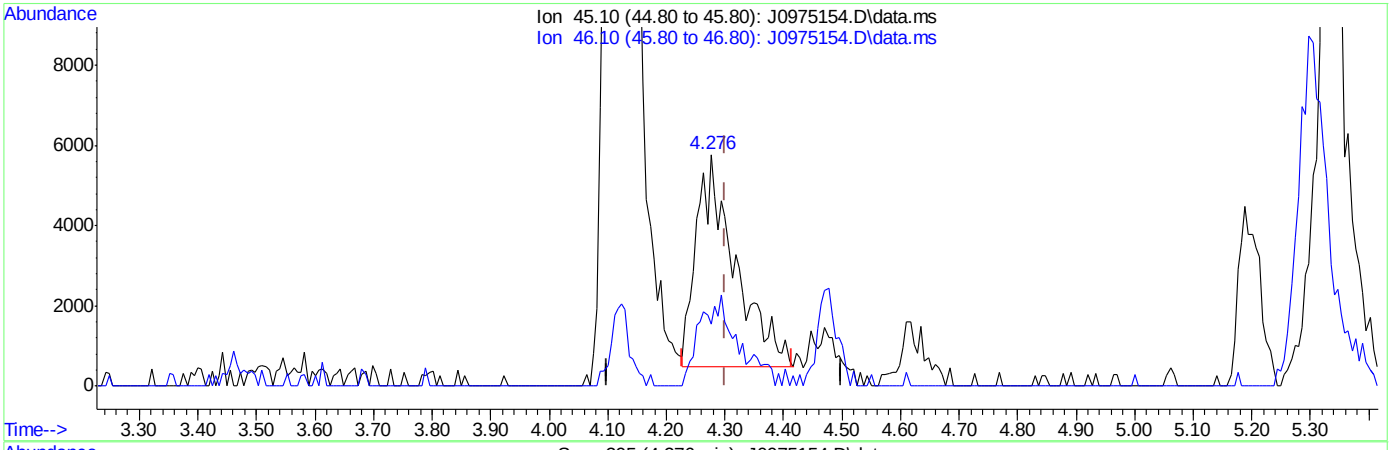
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	92.97
120.90	31.80	30.81
82.00	25.40	25.83

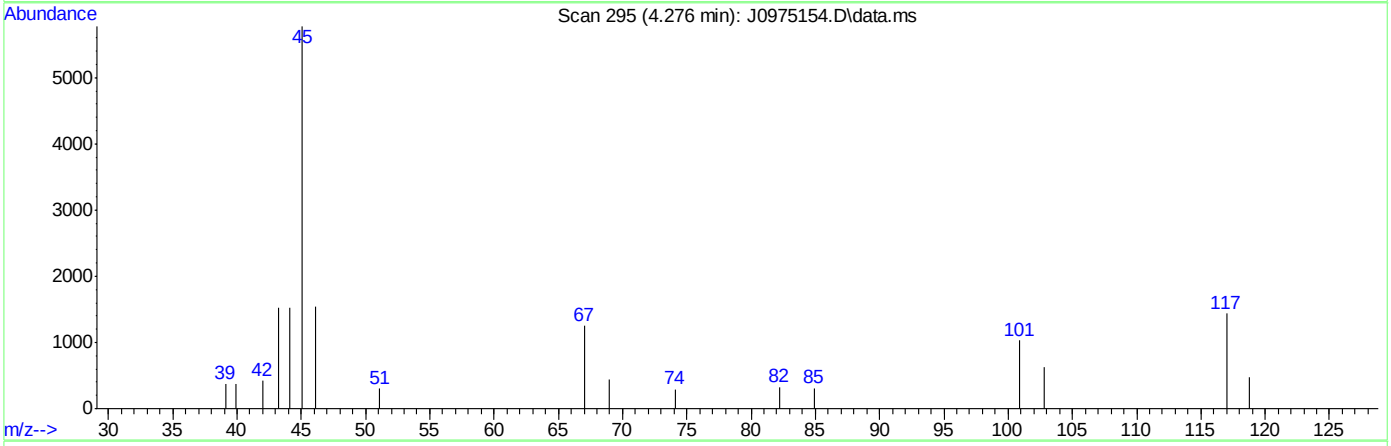
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(107) Ethanol

4.276min (-0.024) 648.61ug/L

response 24343

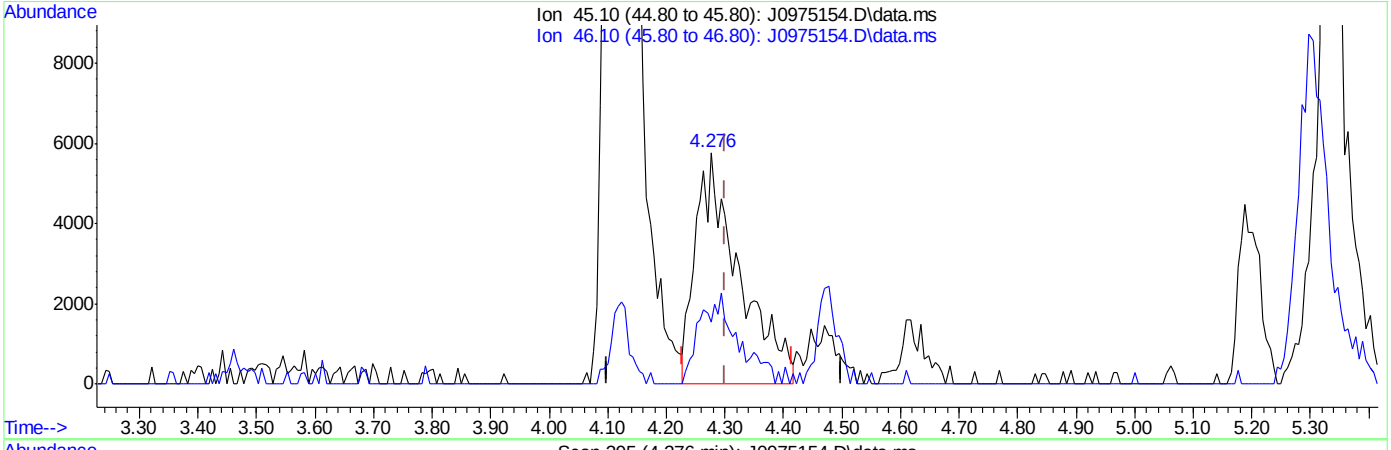
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.18
0.00	0.00	0.00
0.00	0.00	0.00

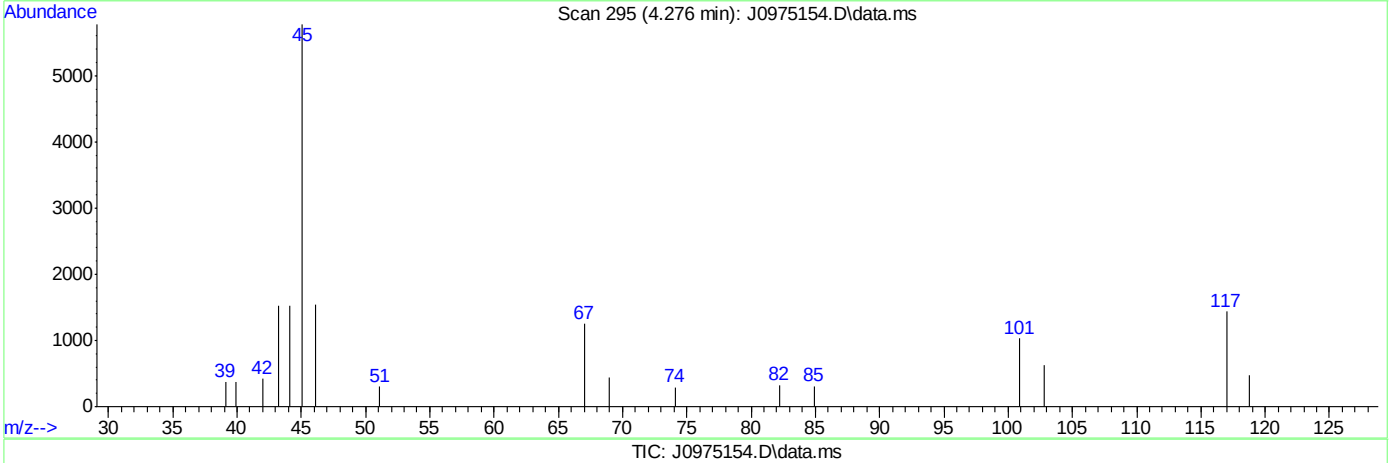
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 16 08:17:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(107) Ethanol

4.276min (-0.024) 791.51ug/L m

response 29706

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	26.78
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:23:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.762	96	1663509	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1267133	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	720297	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.310	65	95696	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	422774	49.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.46%			
46) 1,2-Dichloroethane-d4	7.482	65	502188	48.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.80%			
57) Toluene-d8	9.301	98	1644207	49.03	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.06%			
79) 4-Bromofluorobenzene	12.057	95	655388	47.38	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	796177	71.59	ug/L	96
3) Chloromethane	2.913	50	817162	76.83	ug/L	96
4) Vinyl Chloride	3.053	62	832466	72.98	ug/L	97
5) 1,3-Butadiene	3.047	54	615937	67.17	ug/L	99
6) Bromomethane	3.473	94	509770	111.69	ug/L	97
7) Chloroethane	3.613	64	367451	95.87	ug/L	96
8) Trichlorofluoromethane	3.844	101	1073506m	73.47	ug/L	
9) Ethyl Ether	4.124	59	462843	67.04	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.355	67	675216	69.14	ug/L	97
11) 1,1-Dichloroethene	4.404	61	863633	70.03	ug/L	97
12) Freon 113	4.464	101	586383	71.20	ug/L	96
13) Carbon Disulfide	4.477	76	1819367	69.56	ug/L	97
14) Iodomethane	4.592	142	943964	69.91	ug/L	99
15) Allyl chloride	4.927	41	878928	75.70	ug/L	95
16) Methylene Chloride	5.048	49	738336	68.18	ug/L	95
17) Acetone	5.073	58	174900	362.96	ug/L	95
18) Methyl acetate	5.195	74	349986	355.84	ug/L	98
19) trans-1,2-Dichloroethene	5.231	61	794113	66.14	ug/L	99
20) Hexane	5.304	56	503015	67.32	ug/L	98
21) Methyl Tert Butyl Ether	5.341	73	1582123	70.49	ug/L	79
22) Acetonitrile	5.596	40	224350	682.39	ug/L	95
23) Di-isopropyl ether	5.718	45	1816338	70.24	ug/L	97
24) Chloroprene	5.876	53	937188	73.58	ug/L	97
25) 1,1-Dichloroethane	5.900	63	1041124	66.92	ug/L	99
26) Acrylonitrile	5.925	53	796530	369.39	ug/L	97
27) ETBE	6.119	59	1850410	71.47	ug/L	99
28) Vinyl acetate	6.113	43	4549644	351.47	ug/L	95
29) cis-1,2-Dichloroethene	6.478	96	672081	67.73	ug/L	98
30) 2,2-Dichloropropane	6.612	77	833617	71.41	ug/L	96
31) Bromochloromethane	6.691	128	303789	65.93	ug/L	98
32) Cyclohexane	6.734	56	1006050	72.41	ug/L	97
33) Chloroform	6.740	83	1148321	67.61	ug/L	95
34) Ethyl acetate	6.807	43	1839719	355.84	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:23:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35)	Tetrahydrofuran	6.922	42	102589	68.04	ug/L	94
37)	Carbon Tetrachloride	6.934	117	845243m	71.73	ug/L	
38)	1,1,1-Trichloroethane	6.995	97	1015151	71.04	ug/L	98
39)	2-Butanone	7.026	43	776266	343.13	ug/L	99
40)	1,1-Dichloropropene	7.105	75	815891	68.92	ug/L	100
41)	tert-Butyl Formate	7.190	59	3673836	696.93	ug/L	94
42)	Propionitrile	7.336	54	568454	722.62	ug/L	88
43)	Methacrylonitrile	7.360	41	2411629	739.42	ug/L	97
44)	Benzene	7.360	78	2463561	68.32	ug/L	99
45)	TAME	7.433	73	1667655	73.05	ug/L	98
47)	1,2-Dichloroethane	7.549	62	807016	64.83	ug/L	98
48)	Trichloroethene	7.938	95	645164	67.84	ug/L	97
49)	Methylcyclohexane	7.956	83	1101854	73.40	ug/L	99
50)	Dibromomethane	8.364	93	353388	71.42	ug/L	96
51)	1,2-Dichloropropane	8.449	63	612595	69.05	ug/L	97
52)	Bromodichloromethane	8.498	83	821422	71.87	ug/L	99
53)	Methyl methacrylate	8.595	41	369451	77.35	ug/L	95
54)	2-Chloroethyl vinyl ether	9.009	63	1668101	363.83	ug/L	97
55)	cis-1,3-Dichloropropene	9.112	75	955569	74.12	ug/L	98
58)	Toluene	9.356	91	2496299	68.91	ug/L	96
59)	2-Nitropropane	9.556	41	508815	329.36	ug/L	95
60)	4-Methyl-2-pentanone	9.672	43	1880700	340.32	ug/L	96
61)	trans-1,3-Dichloropropene	9.739	75	809345	74.20	ug/L	97
62)	Tetrachloroethene	9.757	166	694249	64.37	ug/L	99
63)	Ethyl methacrylate	9.842	69	683133	71.80	ug/L	95
64)	1,1,2-Trichloroethane	9.903	83	425903	68.34	ug/L	99
65)	Dibromochloromethane	10.104	129	569577	69.79	ug/L	98
66)	1,3-Dichloropropane	10.183	76	858931	67.39	ug/L	96
67)	1,2-Dibromoethane	10.359	107	486838	71.67	ug/L	99
68)	2-hexanone	10.487	43	1286975	342.39	ug/L	99
69)	1-Chlorohexane	10.797	91	815671	70.05	ug/L	96
70)	Ethylbenzene	10.864	91	2858512	70.62	ug/L	93
71)	Chlorobenzene	10.864	112	1693129	68.89	ug/L	96
72)	1,1,1,2-Tetrachloroethane	10.913	131	585767	72.18	ug/L	100
73)	m,p-Xylene	10.998	91	4082149	145.43	ug/L	87
74)	o-Xylene	11.436	91	2326915	70.06	ug/L	96
75)	Styrene	11.485	104	1796313	73.16	ug/L	96
76)	Bromoform	11.552	173	352668	74.52	ug/L	98
77)	Isopropylbenzene	11.740	105	2705718	71.65	ug/L	95
80)	cis-1,4-Dichloro-2-butene	12.087	53	186907	98.90	ug/L	96
81)	n-Propylbenzene	12.160	91	3164340	62.99	ug/L	93
82)	Bromobenzene	12.185	156	766821	65.78	ug/L	99
83)	1,1,2,2-Tetrachloroethane	12.221	83	612245	71.66	ug/L	97
84)	1,3,5-Trimethylbenzene	12.343	105	2538671	67.87	ug/L	95
85)	2-Chlorotoluene	12.355	91	2343688	64.43	ug/L	95
86)	trans-1,4-Dichloro-2-B...	12.404	53	158679	81.31	ug/L	87
87)	1,2,3-Trichloropropane	12.385	110	161261	68.67	ug/L	98
88)	Cyclohexanone	12.446	55	50911	355.62	ug/L	92
89)	4-Chlorotoluene	12.519	91	2142166	64.15	ug/L	96
90)	a-Methyl Styrene	12.610	118	796296	76.25	ug/L	97

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:23:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.689	91	1460467	66.23	ug/L		99
92)	1,2,4-Trimethylbenzene	12.756	105	2491193	66.52	ug/L		96
93)	Pentachloroethane	12.738	167	487790	79.67	ug/L		98
94)	sec-Butylbenzene	12.872	105	2946134	66.12	ug/L		94
95)	4-Isopropyltoluene	13.000	119	2529417	68.14	ug/L		93
96)	1,3-Dichlorobenzene	13.134	146	1347196	67.49	ug/L		96
97)	1,4-Dichlorobenzene	13.219	146	1384060	65.31	ug/L		96
98)	n-Butylbenzene	13.432	92	1525563	71.75	ug/L		90
99)	Benzyl Chloride	13.450	126	222363	77.92	ug/L	#	72
100)	1,2-Dichlorobenzene	13.645	146	1274423	70.28	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.381	75	96556	111.51	ug/L		91
102)	Hexachlorobutadiene	14.928	225	589535	93.01	ug/L		98
103)	1,2,4-Trichlorobenzene	14.971	180	985671	123.30	ug/L		95
104)	Naphthalene	15.257	128	1543756	130.98	ug/L		98
105)	1,2,3-Trichlorobenzene	15.427	180	835296	136.14	ug/L		98
107)	Ethanol	4.288	45	57616m	1388.22	ug/L		
108)	acrolein	4.756	56	411471	389.95	ug/L		93
109)	Tert Butyl Alcohol	5.383	59	324763	730.62	ug/L		92
110)	tert Amyl alcohol	7.579	59	246499	743.36	ug/L		95
111)	Isobutyl alcohol	7.452	42	242482	1518.42	ug/L	#	84
112)	1,4-Dioxane	8.674	88	53462	1261.60	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.439	57	1553566	3668.90	ug/L		98

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

7.6.6

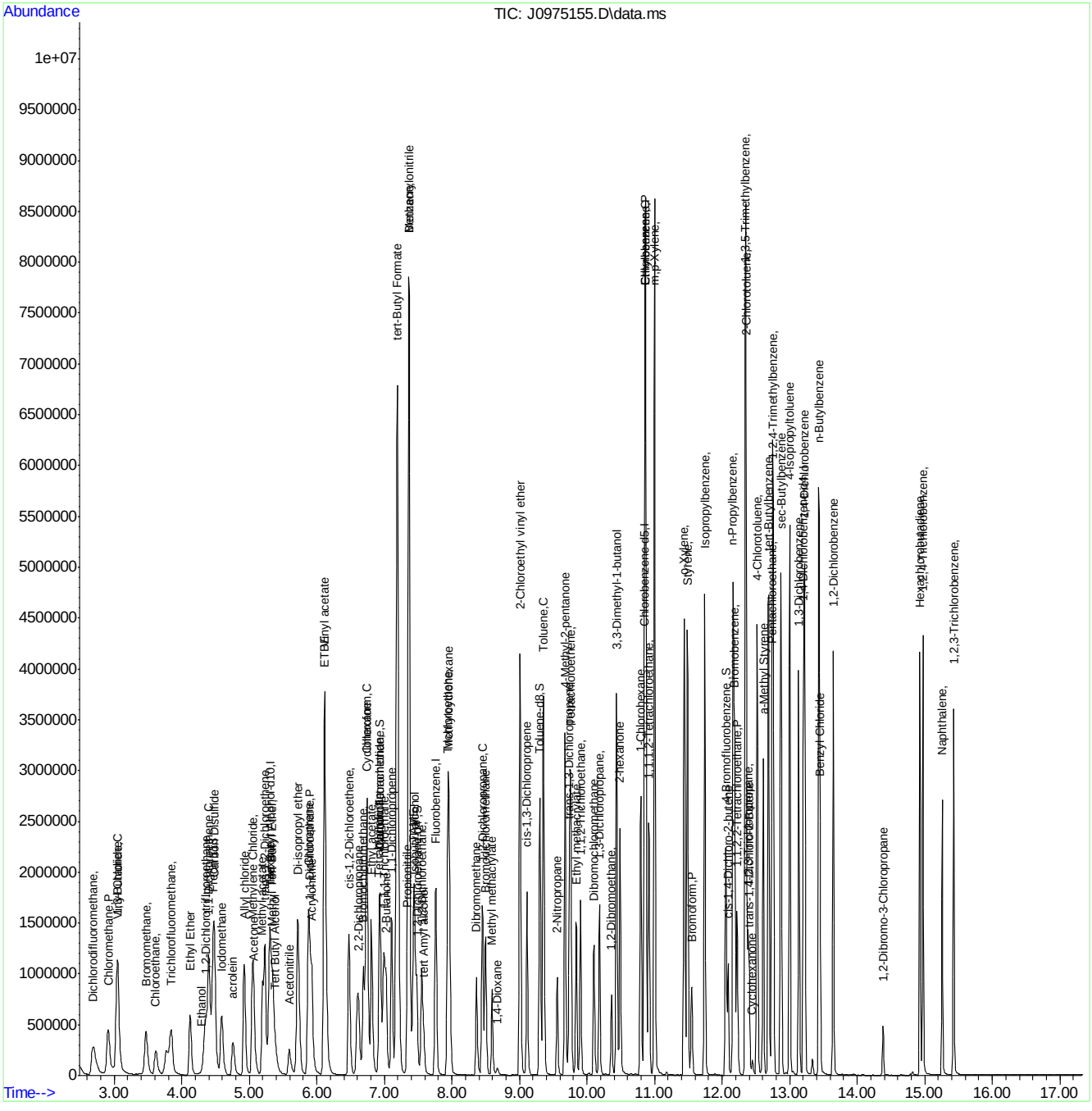
7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:23:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration


Abundance
TIC: J0975155.D\data.ms
Time-->
Dichlorodifluoromethane,
Chloromethane,
Vinyl chloride,C
Bromomethane,
Chloroethane,
Trichlorofluoromethane,
Ethyl Ether
Ethanol
1,2-Dichloroethene,
Carbon Disulfide
Iodomethane
acrolein
Allyl chloride
Methylene Chloride,
Acetone,
Methyl acetate,
Tert Butyl Alcohol-d10,I
Tert Butyl Alcohol
Acetonitrile
Di-isopropyl ether
Acrylonitrile,P
Chloroprene,P
cis-1,2-Dichloroethene,
2,2-Dichloropropane,
Propionitrile
2-Butanone,I
Cyclohexane,C
Methyl Acrylonitrile
Methacrylonitrile
Propionitrile
Bromochloromethane,S
Chloroform,C
1,1,1-Trichloroethane,
Propionitrile
Methacrylonitrile
Iodobenzene,I
Carbon Tetrachloride
Cyclohexane,C
Dibromomethane
Methyl acrylate
1,4-Dioxane
Methyl methacrylate
Fluorobenzene,I
tert Amyl Alcohol
Methyl Methacrylate
Methyl Methacrylate
tert-Butyl Formate
Propionitrile
Methacrylonitrile
Benzene,C
Ethyl acrylate
Vinyl acetate
Methyl Methacrylate
Propionitrile
Methacrylonitrile
Methyl Methacrylate
Propionitrile
Methacrylonitrile
Methyl Methacrylate
Propionitrile
Methacrylonitrile

Manual Integration Approval Summary

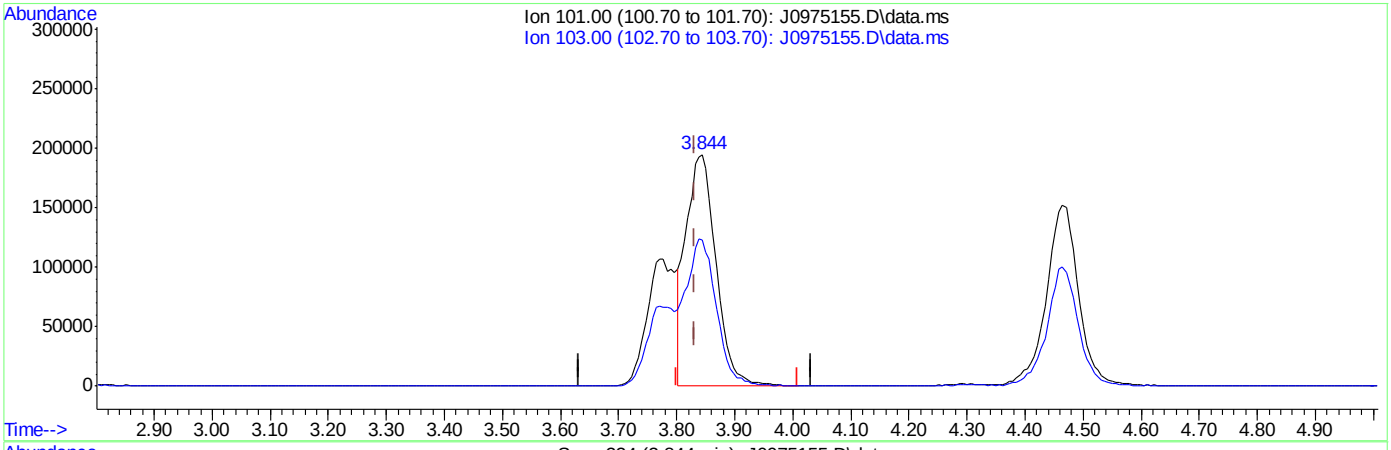
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975155.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 16:15	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

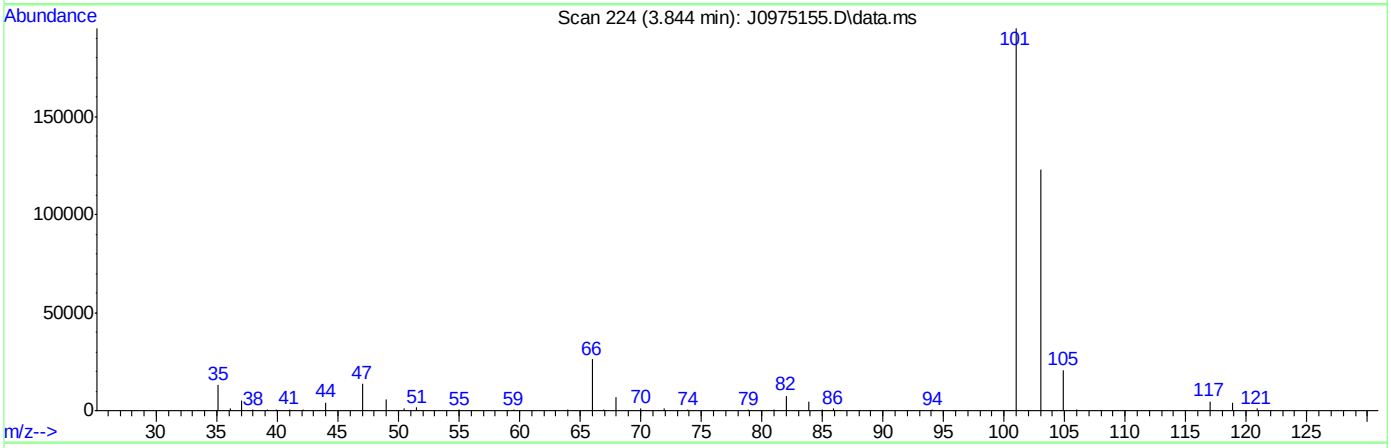
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.012) 47.92ug/L

response 700090

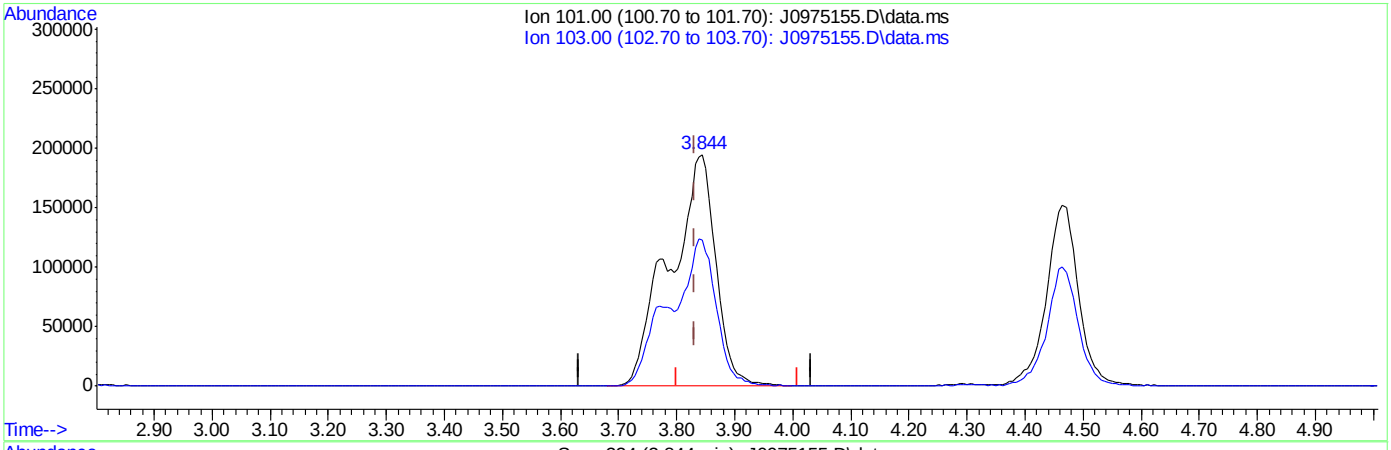
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.84
0.00	0.00	0.00
0.00	0.00	0.00

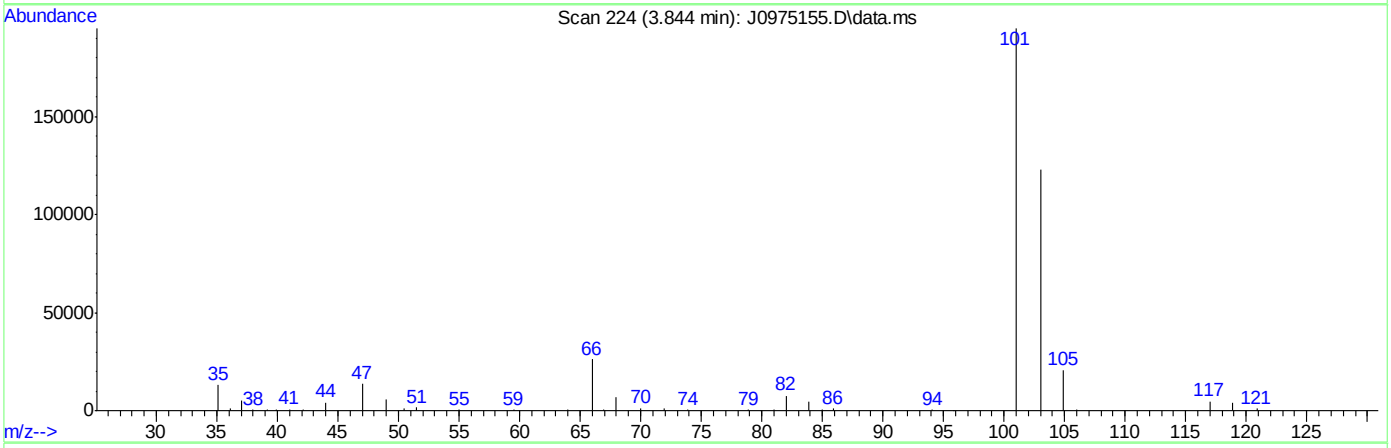
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.012) 73.47ug/L m

response 1073506

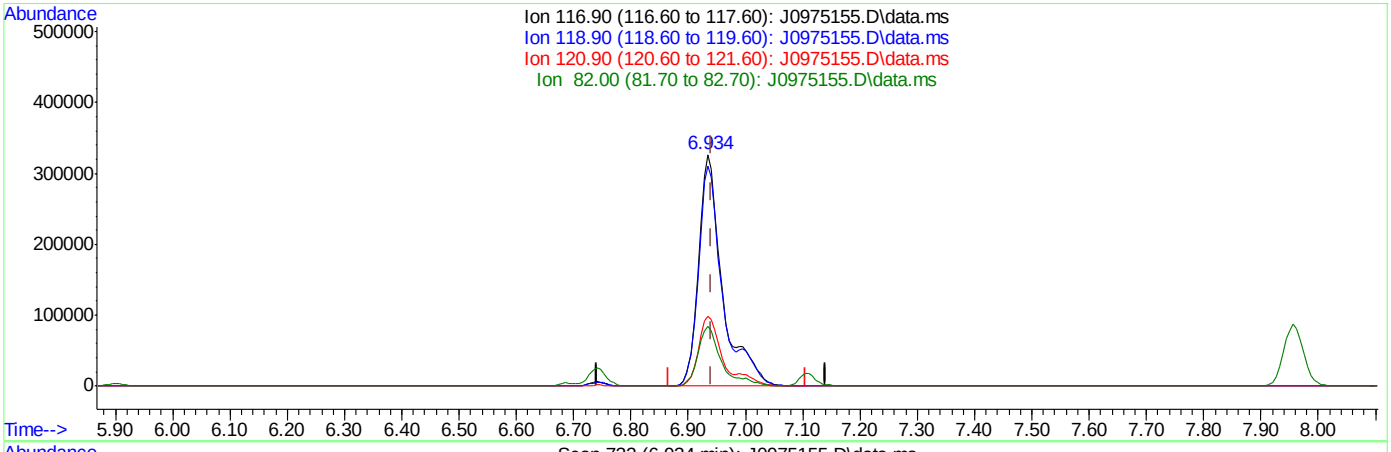
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.02
0.00	0.00	0.00
0.00	0.00	0.00

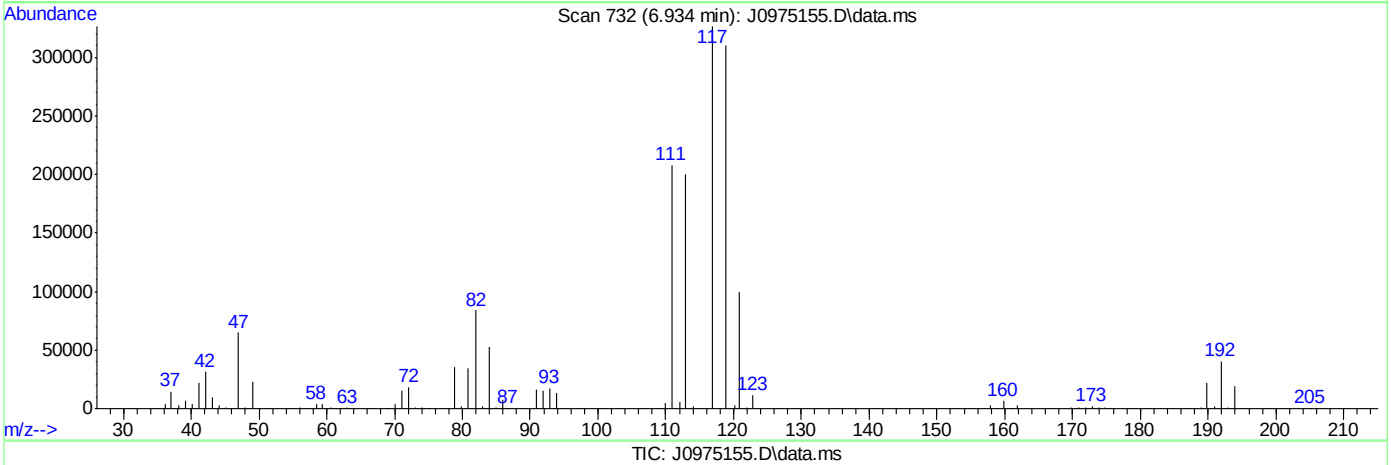
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 81.22ug/L

response 957149

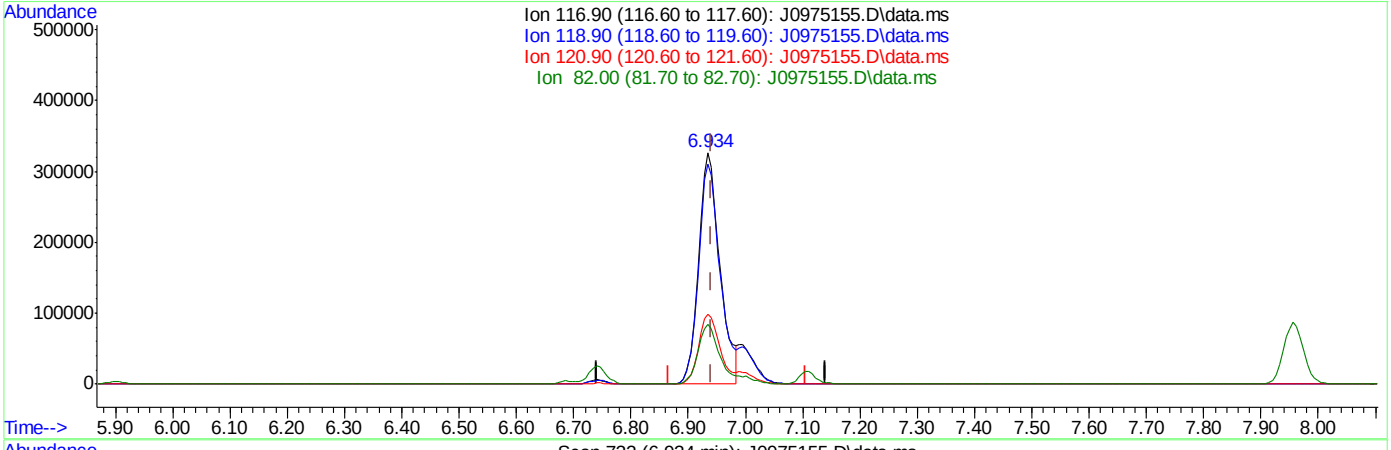
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.95
120.90	31.80	30.39
82.00	25.40	25.70

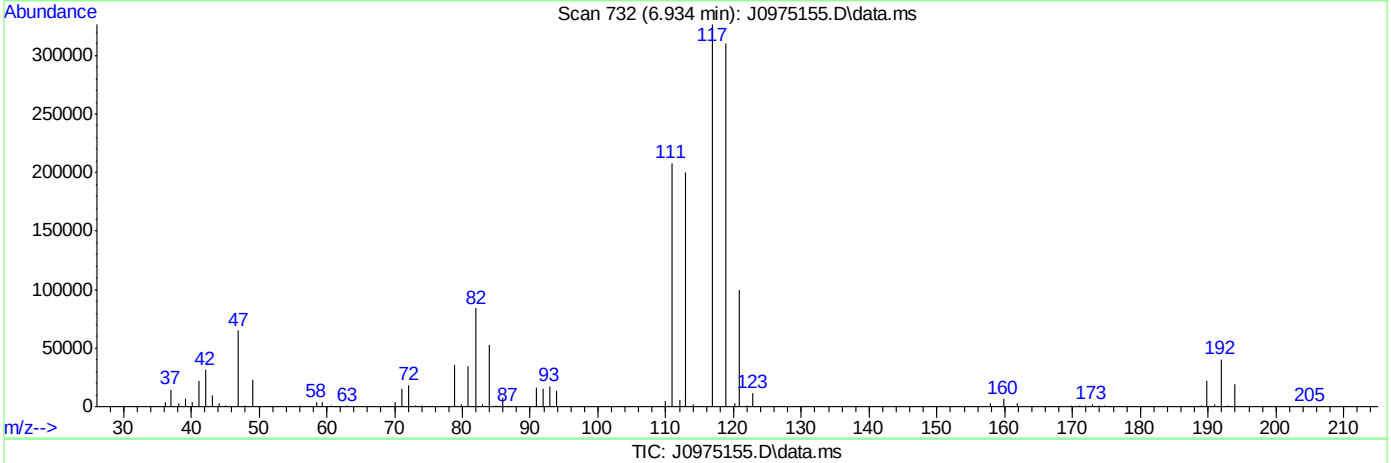
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 71.73ug/L m

response 845243

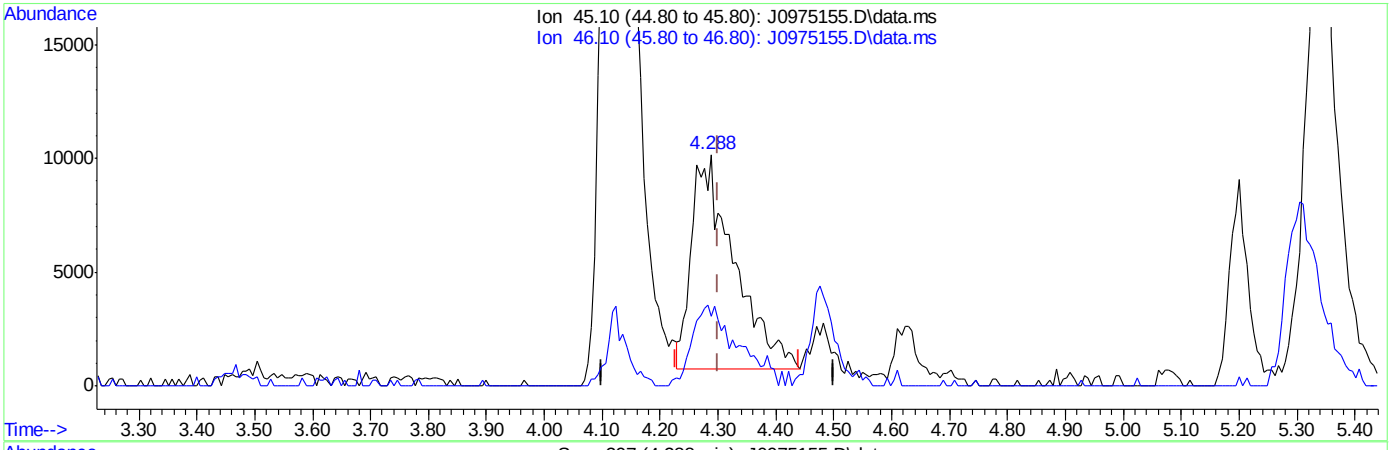
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.95
120.90	31.80	30.39
82.00	25.40	25.70

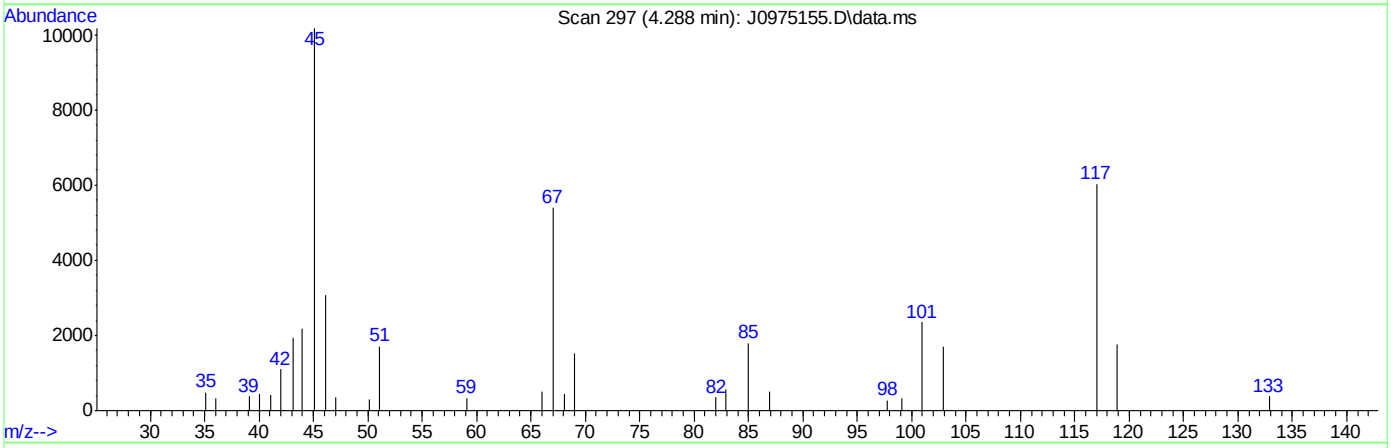
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(107) Ethanol

4.288min (-0.012) 1148.43ug/L

response 47664

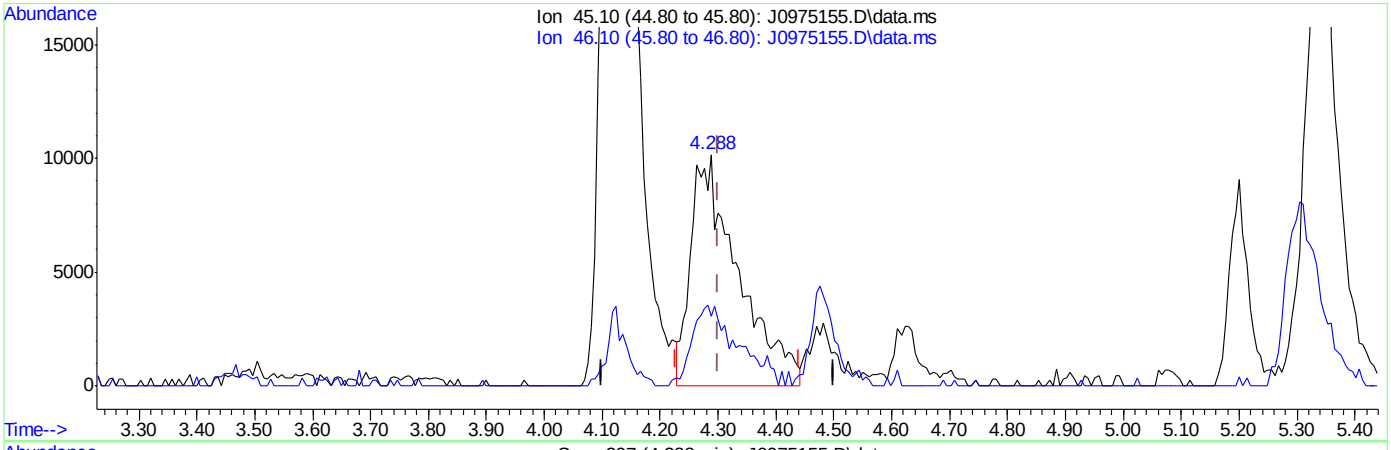
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	28.80
0.00	0.00	0.00
0.00	0.00	0.00

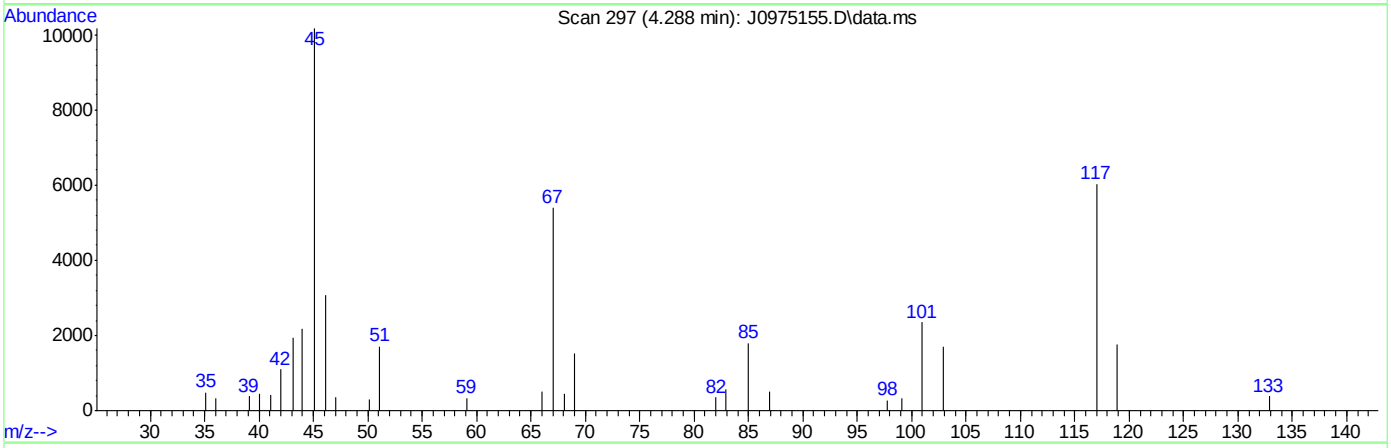
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975155.D
Acq On : 15 Mar 2016 4:15 pm
Operator : DARSHNAP
Sample : IC5237-6 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 16 08:17:36 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975155.D\data.ms

(107) Ethanol

4.288min (-0.012) 1388.22ug/L m

response 57616

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	30.28
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

J0975156.D

Manual Integrations APPROVED (compounds with "m" flag)

Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:23:48 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1677660	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1313937	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	735618	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	101995	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	428253	49.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.90%			
46) 1,2-Dichloroethane-d4	7.482	65	498305	48.11	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.22%			
57) Toluene-d8	9.301	98	1661771	47.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.58%			
79) 4-Bromofluorobenzene	12.057	95	651178	46.10	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 92.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	1114041	99.32	ug/L	98
3) Chloromethane	2.907	50	1139732	107.58	ug/L	98
4) Vinyl Chloride	3.053	62	1151714	100.12	ug/L	99
5) 1,3-Butadiene	3.041	54	823142	89.01	ug/L	99
6) Bromomethane	3.467	94	633782	Below Cal		98
7) Chloroethane	3.613	64	426457	Below Cal		98
8) Trichlorofluoromethane	3.838	101	1422690m	96.55	ug/L	
9) Ethyl Ether	4.118	59	665052	95.52	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.349	67	982810	99.79	ug/L	98
11) 1,1-Dichloroethene	4.398	61	1255822	100.97	ug/L	95
12) Freon 113	4.465	101	862244	103.81	ug/L	98
13) Carbon Disulfide	4.471	76	2701494	102.41	ug/L	97
14) Iodomethane	4.586	142	1402340	102.98	ug/L	99
15) Allyl chloride	4.921	41	1179323	100.72	ug/L	95
16) Methylene Chloride	5.043	49	1070637	100.32	ug/L	96
17) Acetone	5.073	58	238474	485.07	ug/L	96
18) Methyl acetate	5.195	74	510159	514.32	ug/L #	88
19) trans-1,2-Dichloroethene	5.225	61	1150951	95.06	ug/L	98
20) Hexane	5.298	56	722765	95.92	ug/L	97
21) Methyl Tert Butyl Ether	5.341	73	2289989	101.17	ug/L	76
22) Acetonitrile	5.590	40	307391	952.74	ug/L	94
23) Di-isopropyl ether	5.718	45	2611639	100.14	ug/L	98
24) Chloroprene	5.870	53	1282244	99.82	ug/L	97
25) 1,1-Dichloroethane	5.900	63	1517500	96.71	ug/L	99
26) Acrylonitrile	5.925	53	1057913	486.47	ug/L	99
27) ETBE	6.119	59	2687192	102.92	ug/L	99
28) Vinyl acetate	6.113	43	5725222	438.56	ug/L	93
29) cis-1,2-Dichloroethene	6.472	96	986636	98.59	ug/L	98
30) 2,2-Dichloropropane	6.606	77	1229663	104.45	ug/L	99
31) Bromochloromethane	6.685	128	440819	94.86	ug/L	98
32) Cyclohexane	6.734	56	1493354	106.58	ug/L	93
33) Chloroform	6.740	83	1662786	97.08	ug/L	97
34) Ethyl acetate	6.807	43	2494873	478.48	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:23:48 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	141622	92.52 ug/L	96
37) Carbon Tetrachloride	6.935	117	1240589m	104.39 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	1496888	103.86 ug/L	98
39) 2-Butanone	7.026	43	1085834	476.16 ug/L	99
40) 1,1-Dichloropropene	7.105	75	1191218	99.78 ug/L	97
41) tert-Butyl Formate	7.190	59	5144797	964.23 ug/L	96
42) Propionitrile	7.336	54	751362	947.07 ug/L	95
43) Methacrylonitrile	7.366	41	3085566	985.97 ug/L	95
44) Benzene	7.360	78	3537446	97.27 ug/L	99
45) TAME	7.433	73	2430907	105.58 ug/L	97
47) 1,2-Dichloroethane	7.549	62	1159083	92.33 ug/L	99
48) Trichloroethene	7.938	95	938979	97.90 ug/L	98
49) Methylcyclohexane	7.957	83	1648708	108.90 ug/L	98
50) Dibromomethane	8.358	93	503424	100.88 ug/L	99
51) 1,2-Dichloropropane	8.449	63	890414	99.51 ug/L	99
52) Bromodichloromethane	8.498	83	1197814	103.92 ug/L	98
53) Methyl methacrylate	8.589	41	499600	103.72 ug/L	96
54) 2-Chloroethyl vinyl ether	9.009	63	2357081	520.45 ug/L	97
55) cis-1,3-Dichloropropene	9.112	75	1392882	107.12 ug/L	97
58) Toluene	9.356	91	3511420	97.88 ug/L	92
59) 2-Nitropropane	9.557	41	742165	463.29 ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	2582624	450.69 ug/L	93
61) trans-1,3-Dichloropropene	9.739	75	1174760	103.87 ug/L	96
62) Tetrachloroethene	9.757	166	1098957	98.27 ug/L	99
63) Ethyl methacrylate	9.836	69	951549	96.29 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	612697	94.81 ug/L	99
65) Dibromochloromethane	10.104	129	838584	98.24 ug/L	98
66) 1,3-Dichloropropane	10.183	76	1234537	93.41 ug/L	97
67) 1,2-Dibromoethane	10.360	107	705132	100.10 ug/L	99
68) 2-hexanone	10.487	43	1797070	461.06 ug/L	98
69) 1-Chlorohexane	10.798	91	1201715	99.52 ug/L	96
70) Ethylbenzene	10.865	91	3913054	100.03 ug/L	85
71) Chlorobenzene	10.865	112	2454813	98.17 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.913	131	865611	102.87 ug/L	98
73) m,p-Xylene	10.998	91	5199315	206.12 ug/L	71
74) o-Xylene	11.436	91	3274848	95.09 ug/L	92
75) Styrene	11.485	104	2597936	102.05 ug/L	94
76) Bromoform	11.552	173	526813	104.07 ug/L	97
77) Isopropylbenzene	11.741	105	3763480	101.47 ug/L	88
80) cis-1,4-Dichloro-2-butene	12.087	53	246701	127.83 ug/L	93
81) n-Propylbenzene	12.160	91	4262827	83.09 ug/L	84
82) Bromobenzene	12.185	156	1120243	94.09 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.221	83	876296	100.43 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	3530308	92.42 ug/L	87
85) 2-Chlorotoluene	12.355	91	3292953	88.64 ug/L	90
86) trans-1,4-Dichloro-2-B...	12.404	53	229741	110.96 ug/L	90
87) 1,2,3-Trichloropropane	12.385	110	229231	95.58 ug/L	99
88) Cyclohexanone	12.446	55	67015	458.36 ug/L	91
89) 4-Chlorotoluene	12.519	91	3036759	89.04 ug/L	91
90) a-Methyl Styrene	12.611	118	1117515	104.79 ug/L	98

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:23:48 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.690	91	2134042	94.76	ug/L	96
92) 1,2,4-Trimethylbenzene	12.750	105	3474573	90.84	ug/L	89
93) Pentachloroethane	12.738	167	615420	95.31	ug/L	98
94) sec-Butylbenzene	12.872	105	4048307	88.96	ug/L	85
95) 4-Isopropyltoluene	13.000	119	3526930	93.03	ug/L	87
96) 1,3-Dichlorobenzene	13.134	146	1945931	95.46	ug/L	96
97) 1,4-Dichlorobenzene	13.225	146	2004086	92.60	ug/L	97
98) n-Butylbenzene	13.432	92	2222818	102.37	ug/L #	80
99) Benzyl Chloride	13.450	126	334209	107.65	ug/L #	66
100) 1,2-Dichlorobenzene	13.645	146	1853570	100.08	ug/L	96
101) 1,2-Dibromo-3-Chloropr...	14.381	75	142658	151.74	ug/L	92
102) Hexachlorobutadiene	14.928	225	909906	134.80	ug/L	97
103) 1,2,4-Trichlorobenzene	14.971	180	1467882	166.70	ug/L	97
104) Naphthalene	15.257	128	2248808	168.08	ug/L	95
105) 1,2,3-Trichlorobenzene	15.427	180	1258478	178.93	ug/L	97
107) Ethanol	4.276	45	78200m	1767.82	ug/L	
108) acrolein	4.757	56	572291	508.87	ug/L	94
109) Tert Butyl Alcohol	5.383	59	462156	975.50	ug/L	96
110) tert Amyl alcohol	7.579	59	364351	1030.91	ug/L	97
111) Isobutyl alcohol	7.458	42	326293	2011.49	ug/L	95
112) 1,4-Dioxane	8.674	88	75690	1675.83	ug/L	93
113) 3,3-Dimethyl-1-butanol	10.439	57	2227836	4731.75	ug/L	97

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

7.6.7

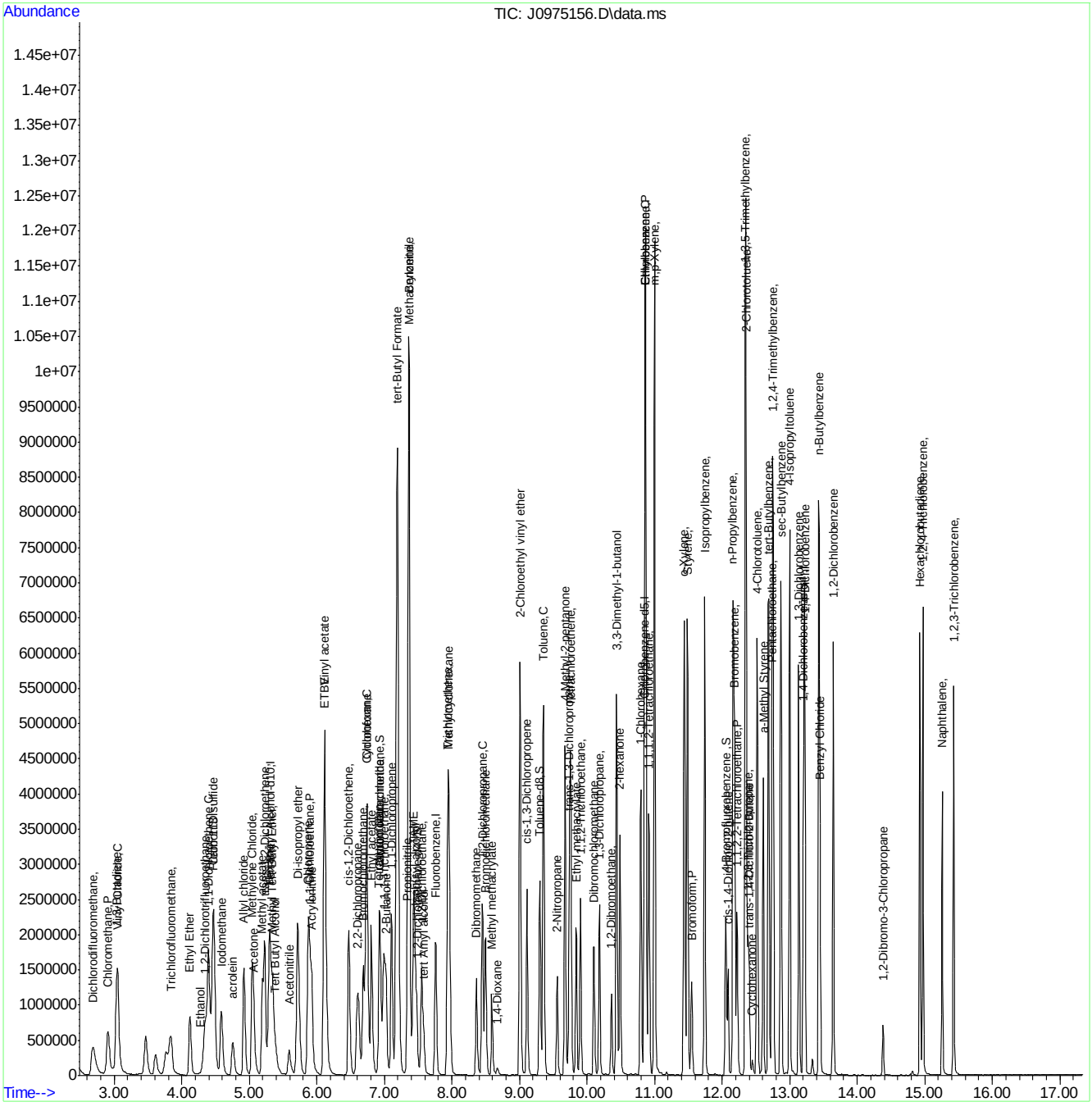
7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:23:48 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA33763

Manual Integration Approval Summary

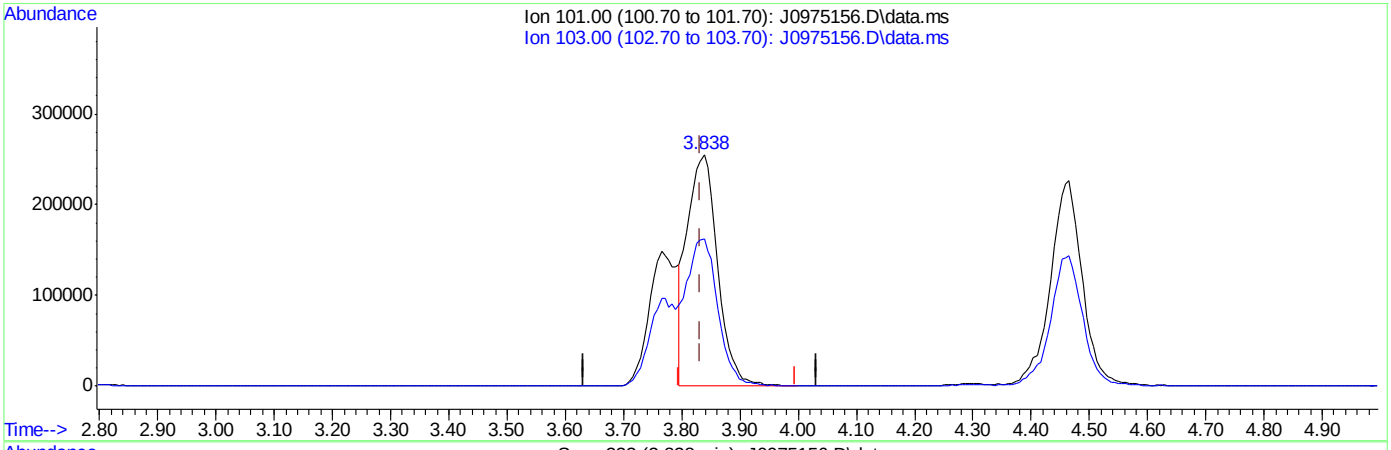
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975156.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 16:39	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

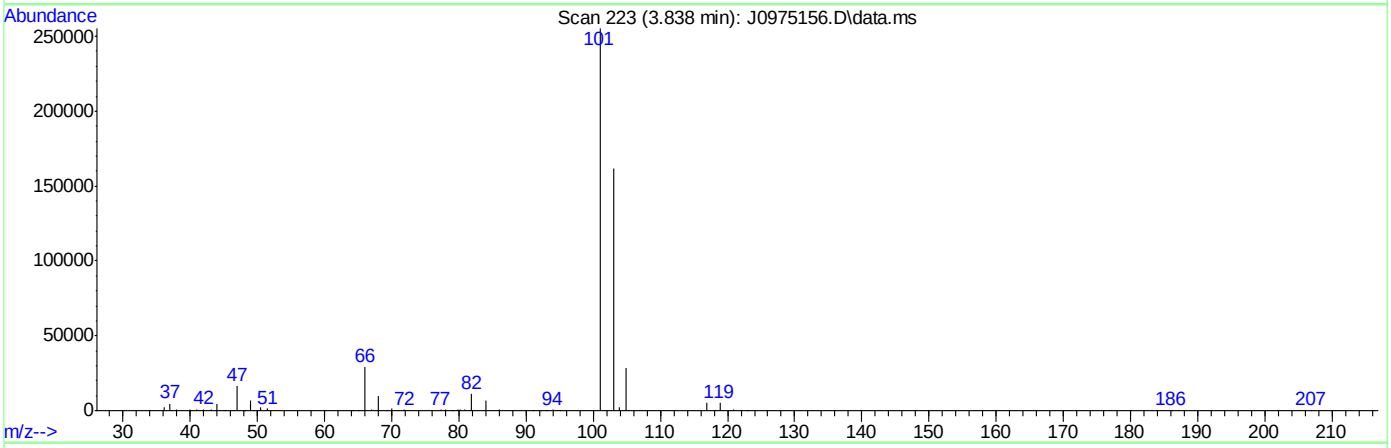
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 62.31ug/L

response 918142

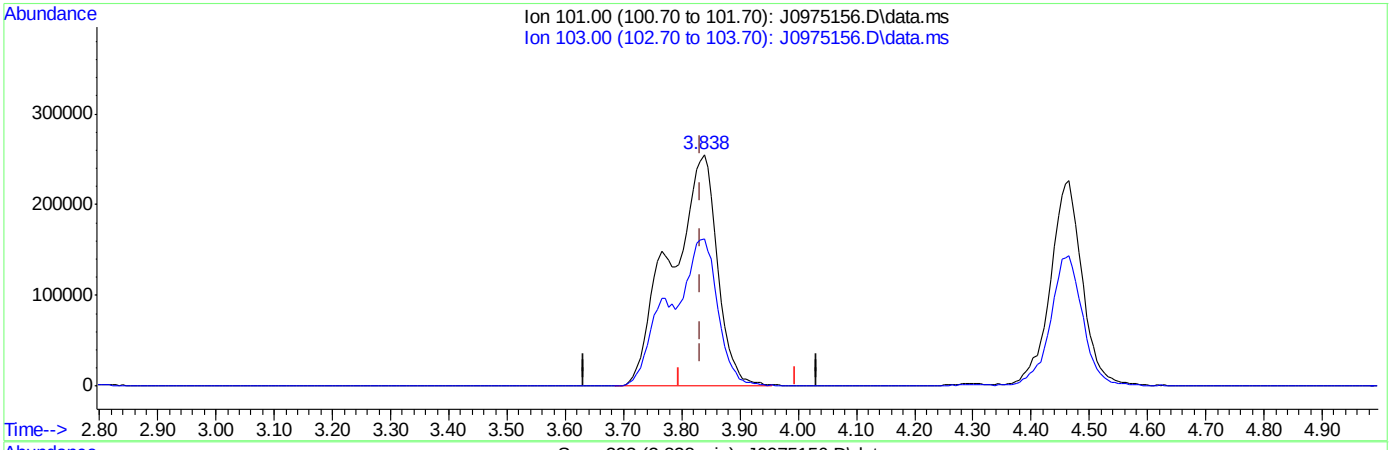
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.35
0.00	0.00	0.00
0.00	0.00	0.00

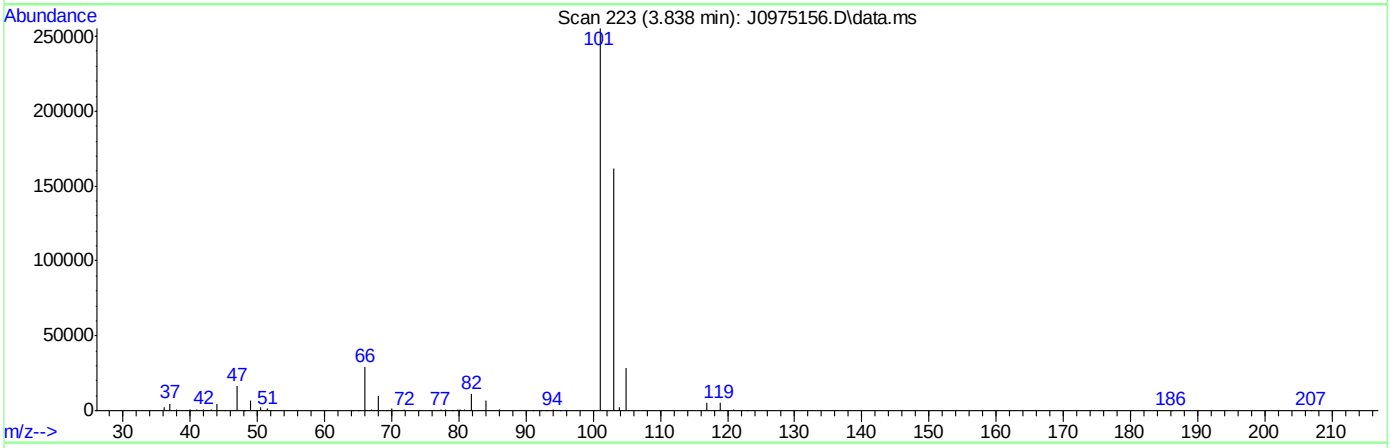
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 96.55ug/L m

response 1422690

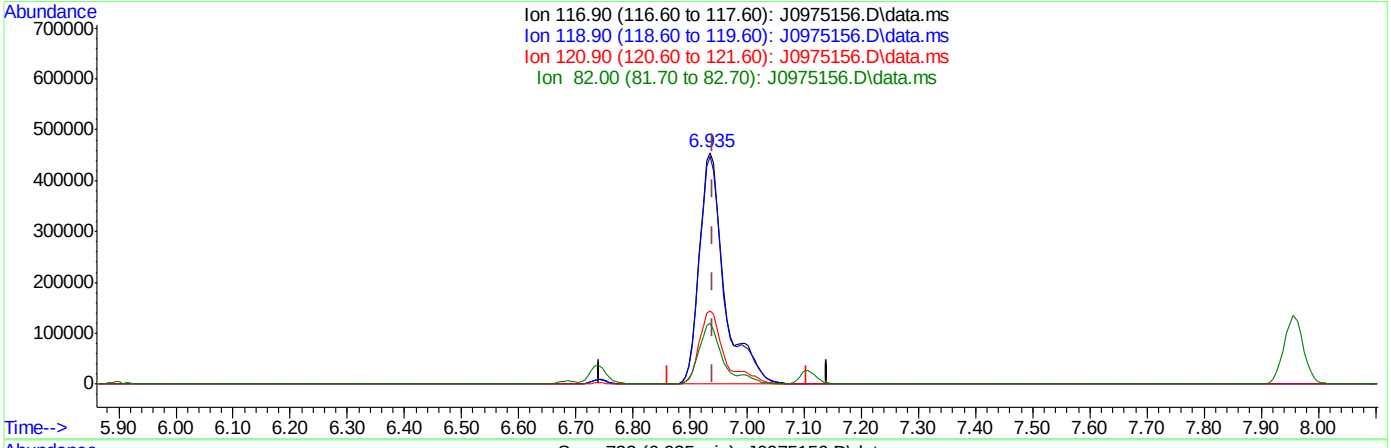
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.42
0.00	0.00	0.00
0.00	0.00	0.00

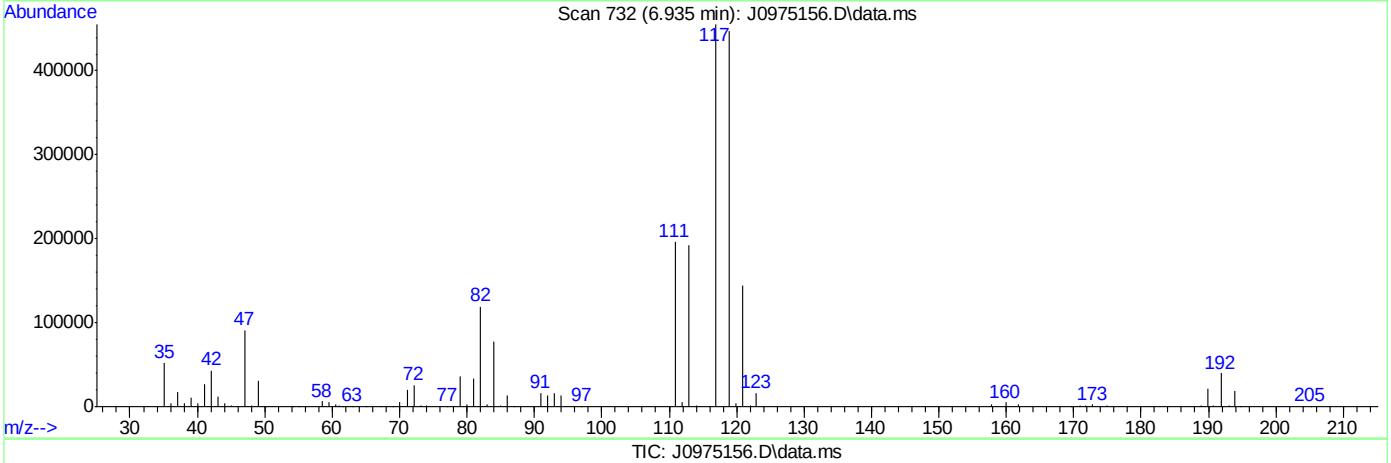
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 118.07ug/L

response 1403127

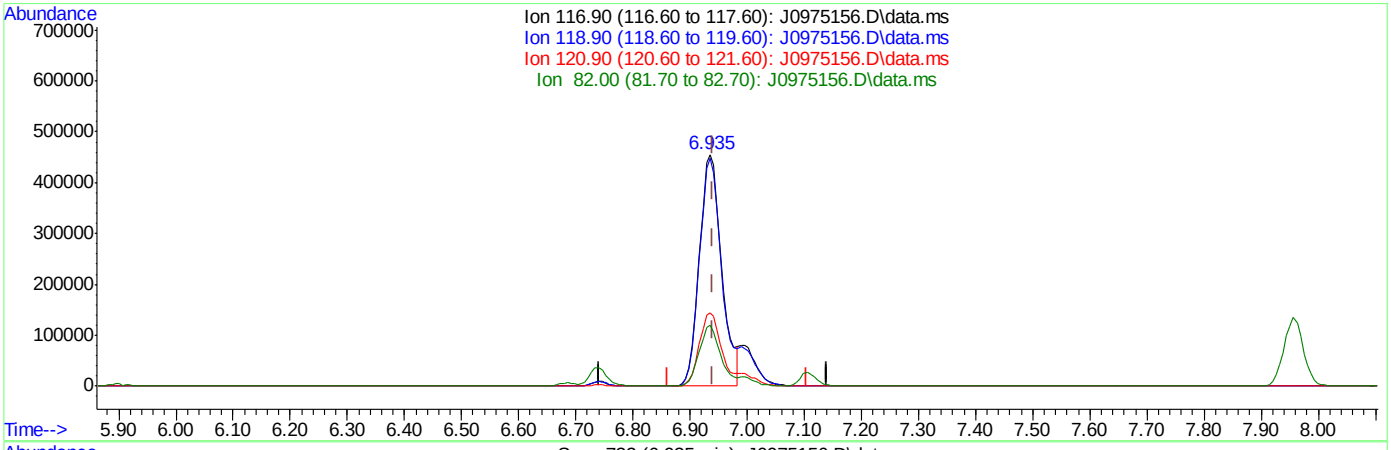
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.22
120.90	31.80	31.58
82.00	25.40	26.25

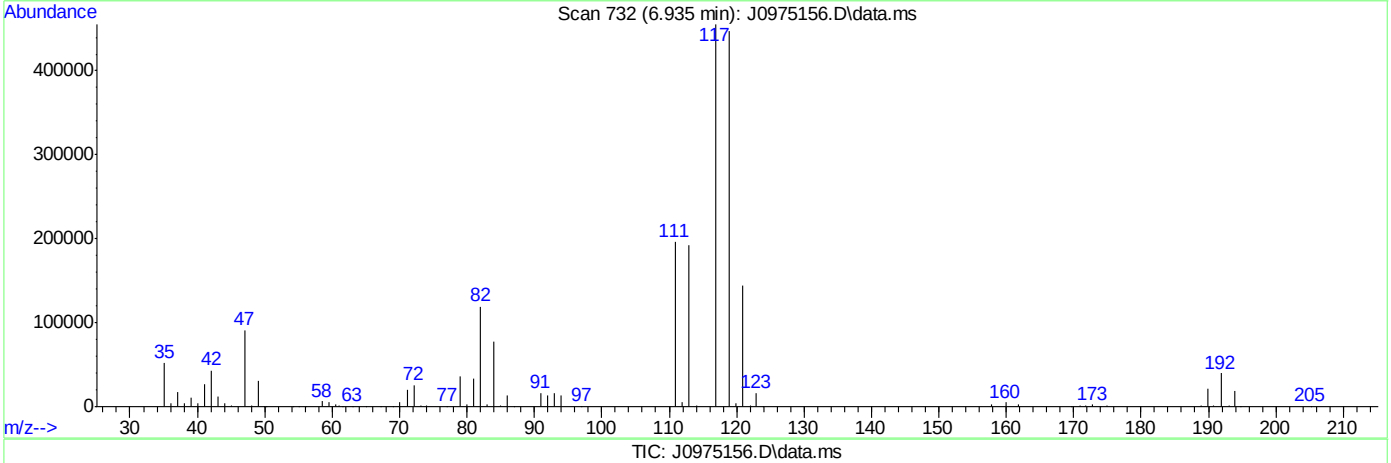
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 104.39ug/L m

response 1240589

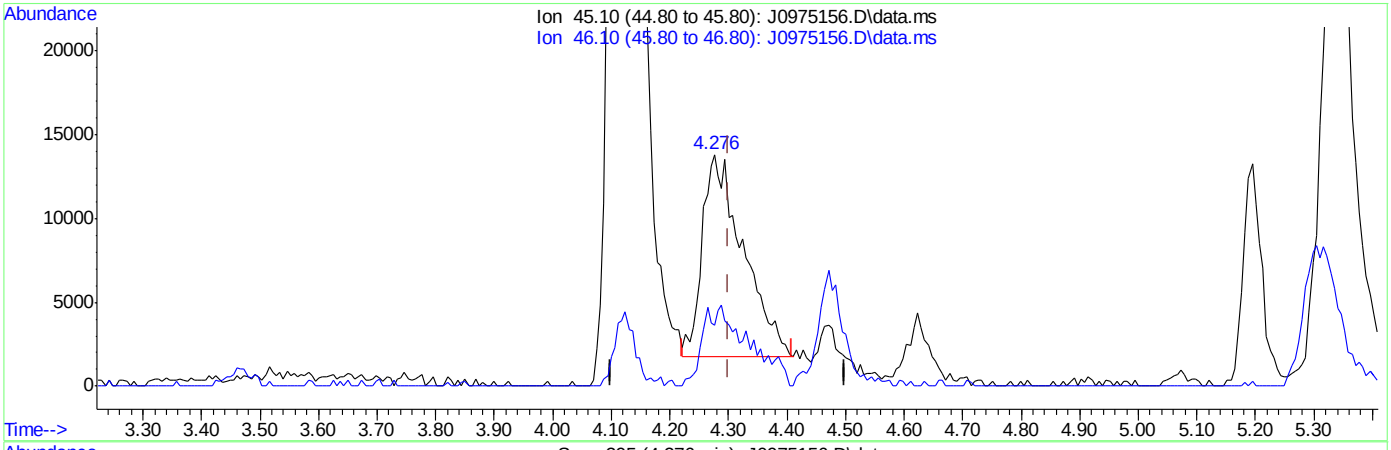
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.22
120.90	31.80	31.58
82.00	25.40	26.25

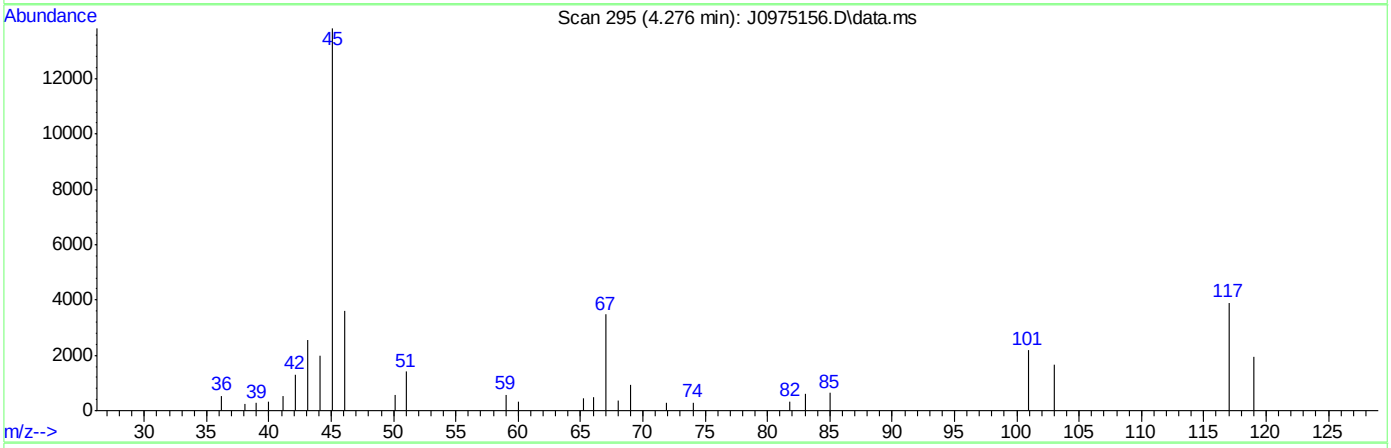
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(107) Ethanol

4.276min (-0.024) 1320.44ug/L

response 58410

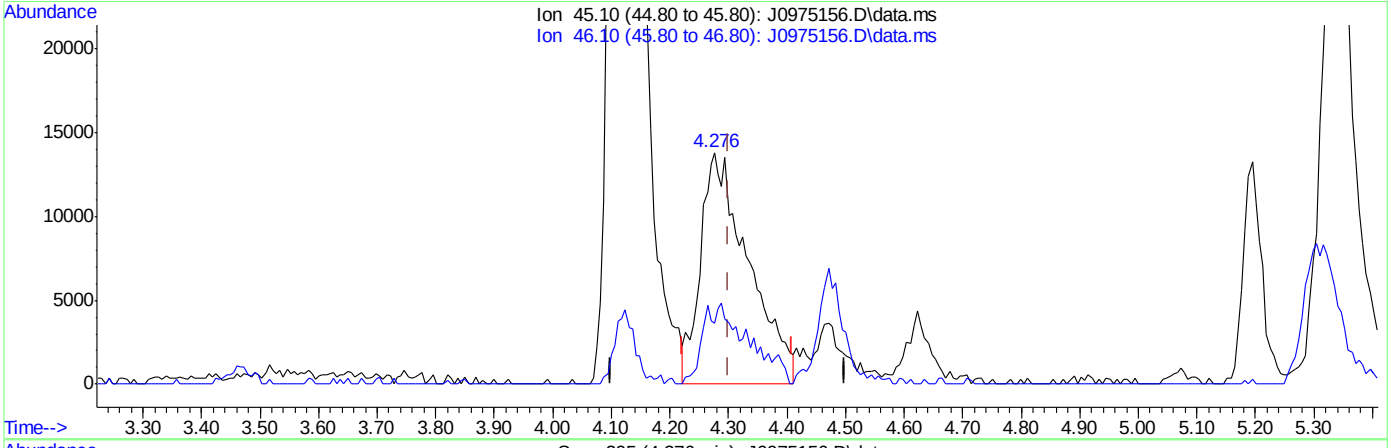
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.86
0.00	0.00	0.00
0.00	0.00	0.00

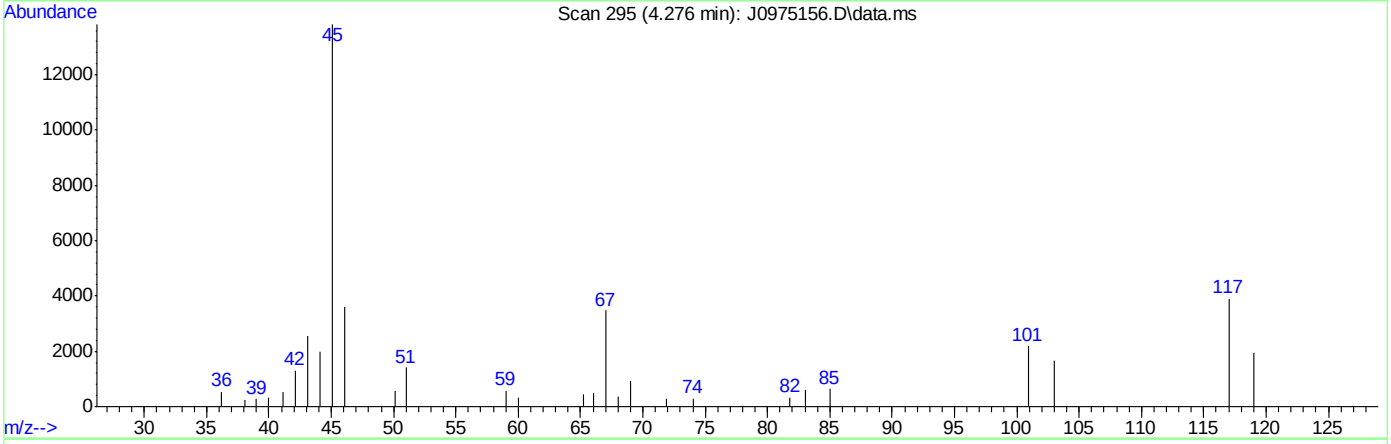
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(107) Ethanol

4.276min (-0.024) 1767.82ug/L m

response 78200

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	26.08
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 16 08:39:04 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1639270	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1249756	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	712475	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	88026	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	0.000	113	0d	0.00	ug/L	
Spiked Amount 50.000	Range 83 - 118		Recovery = 0.00%#			
46) 1,2-Dichloroethane-d4	7.482	65	499348	49.64	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.28%			
57) Toluene-d8	9.301	98	1616219	49.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.30%			
79) 4-Bromofluorobenzene	12.057	95	655632	50.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.76%			
Target Compounds						Qvalue
10) 1,2-Dichlorotrifluoroe...	4.355	67	376698	39.53	ug/L	98

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

7.6.8

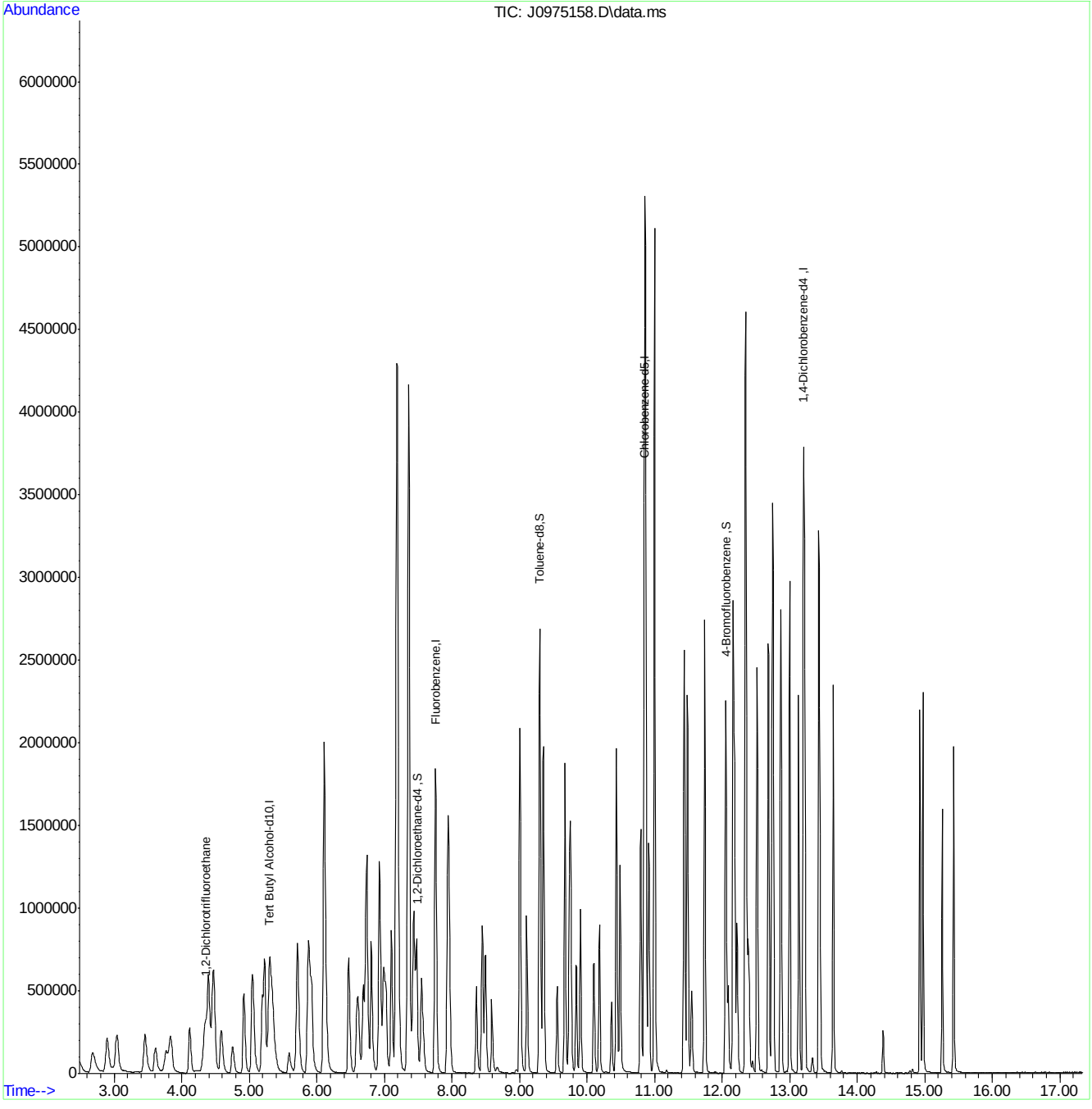
7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 16 08:39:04 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

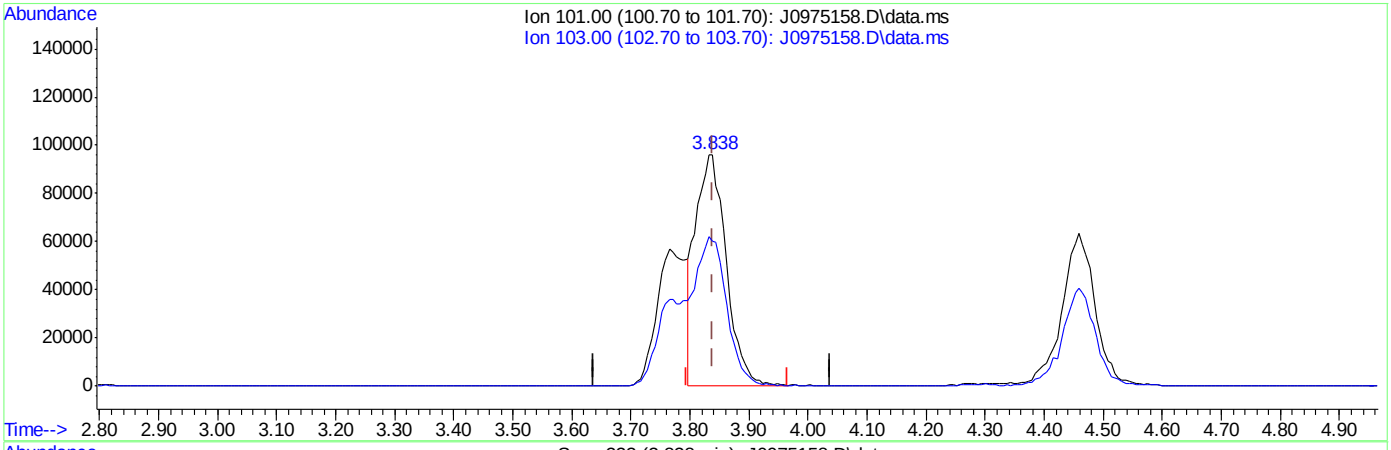


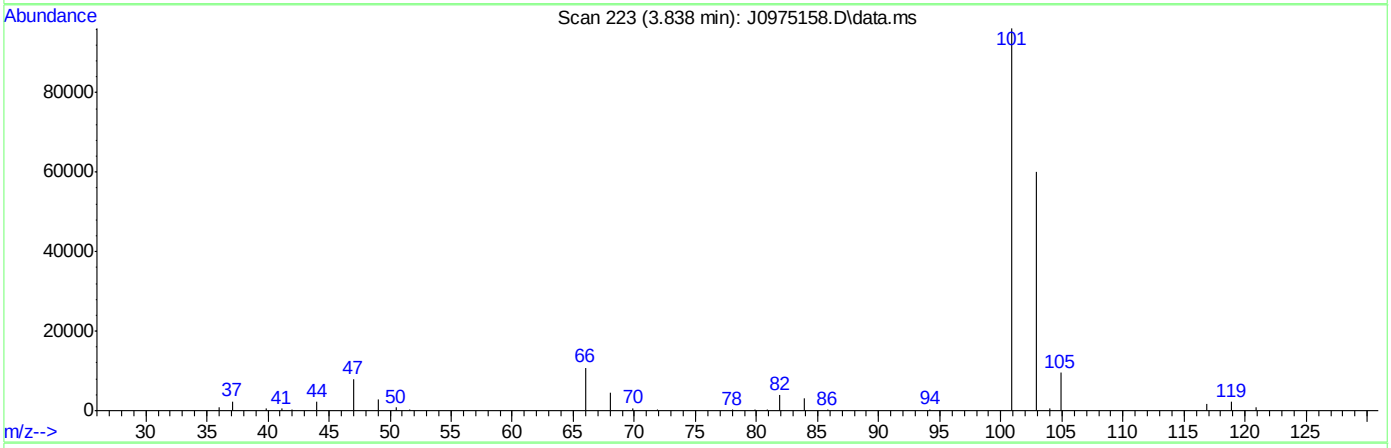
MSJ031516.M Wed Mar 16 09:49:38 2016 Page: 2

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

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





TIC: J0975158.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 25.41ug/L

response 348698

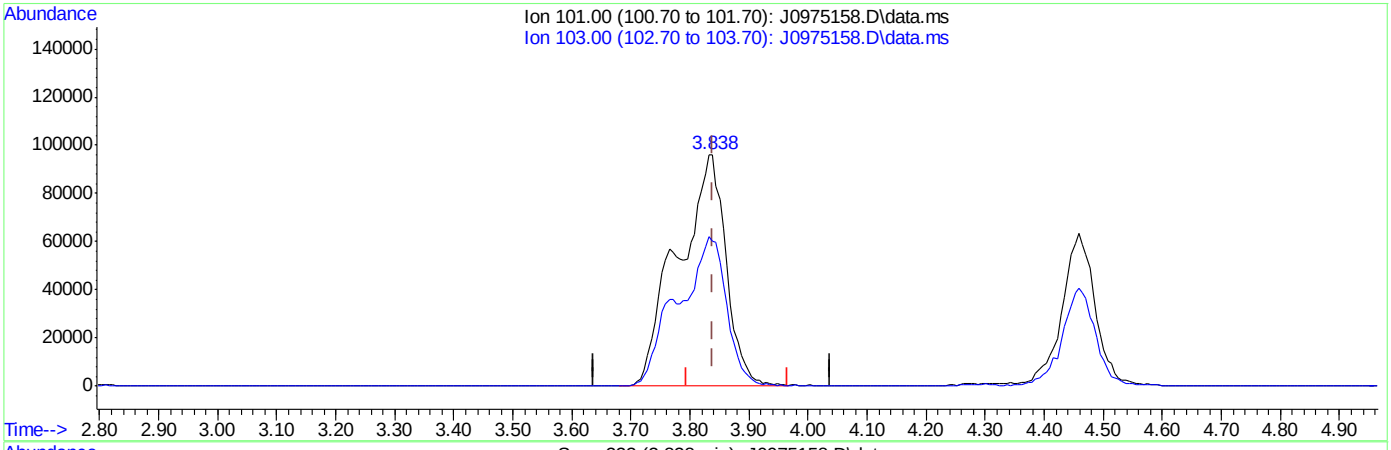
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.38
0.00	0.00	0.00
0.00	0.00	0.00

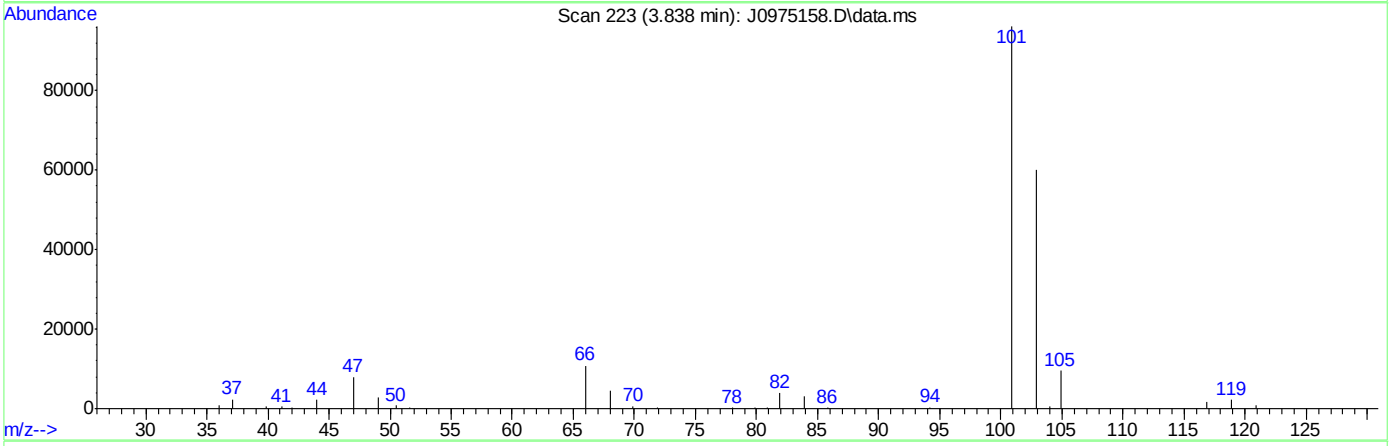
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

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





TIC: J0975158.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 39.59ug/L m

response 543281

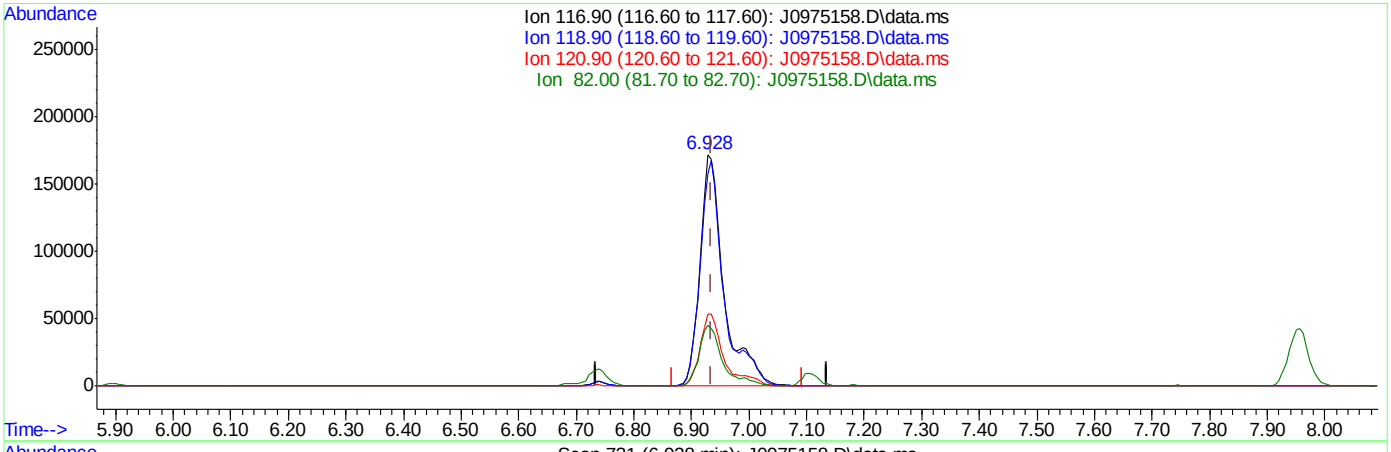
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.54
0.00	0.00	0.00
0.00	0.00	0.00

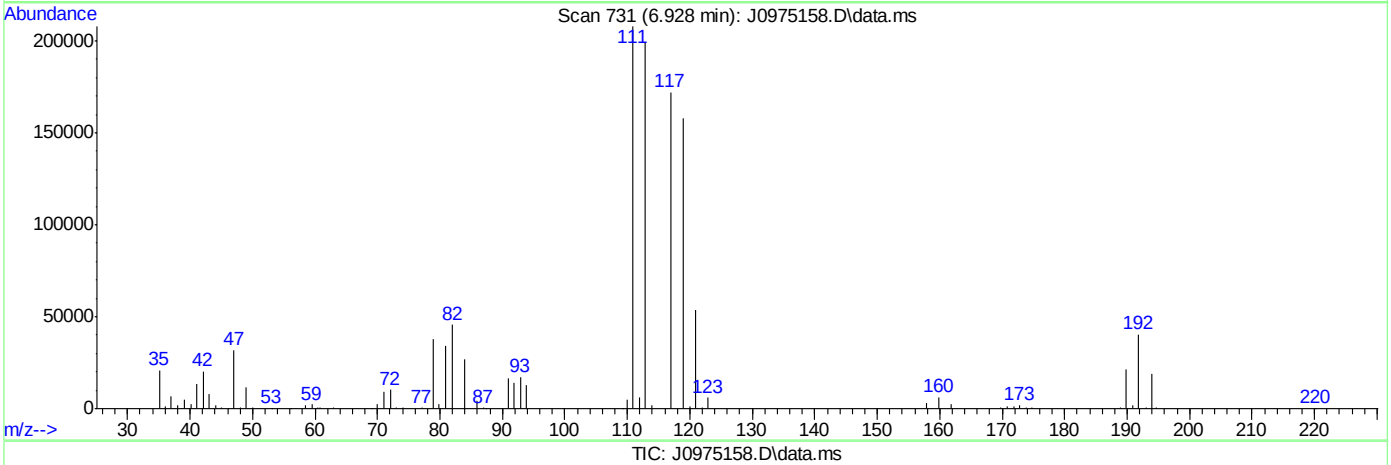
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

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





TIC: J0975158.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 45.07ug/L

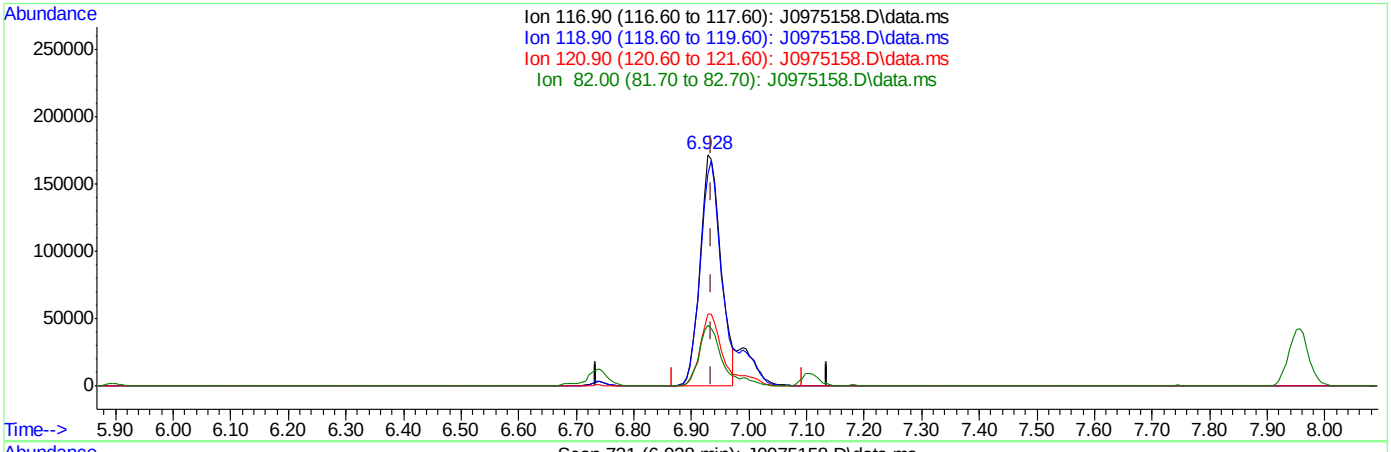
response 506180

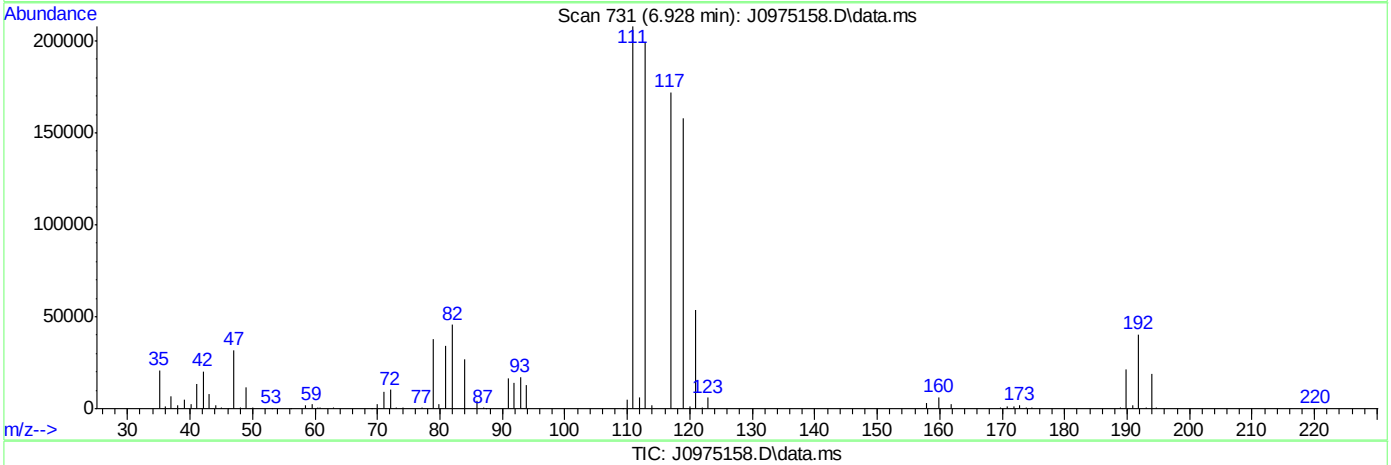
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	91.71
120.90	31.80	31.05
82.00	25.40	26.52

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

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





TIC: J0975158.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 38.77ug/L m

response 435379

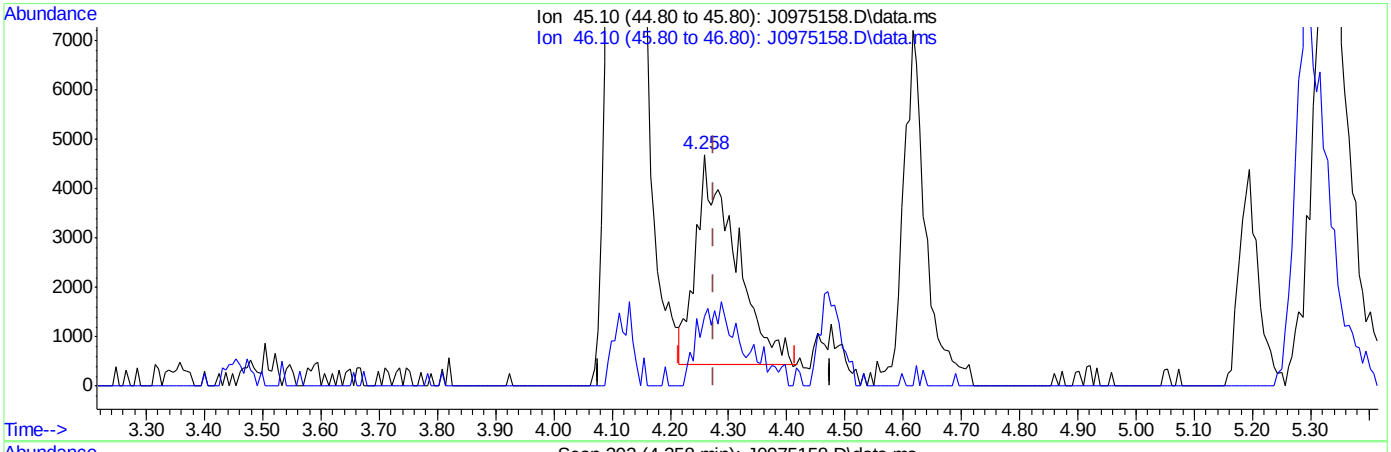
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	91.71
120.90	31.80	31.05
82.00	25.40	26.52

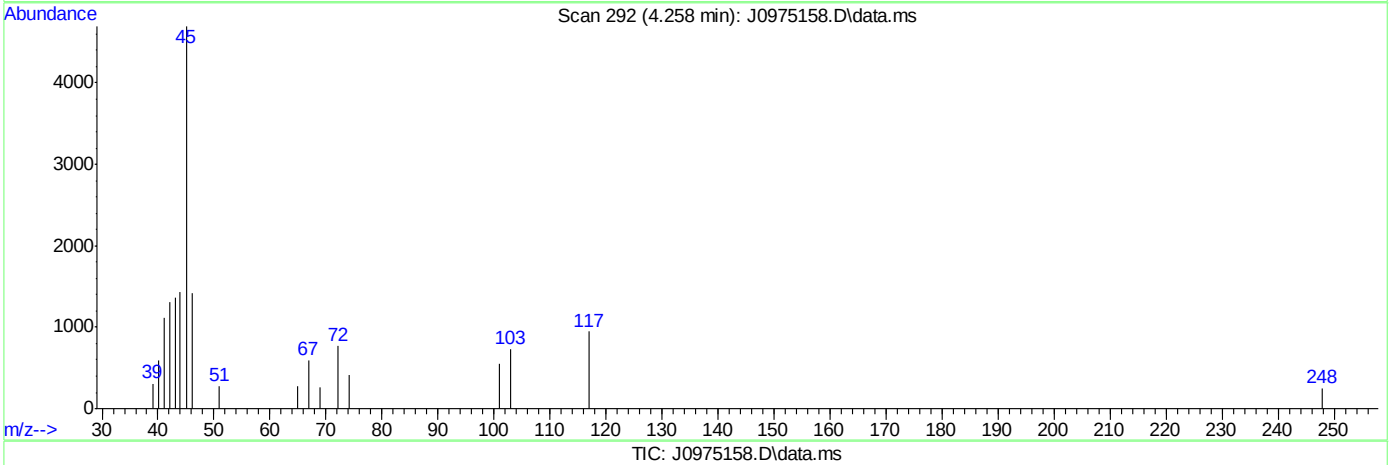
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

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





TIC: J0975158.D\data.ms

(107) Ethanol

4.258min (-0.018) 482.59ug/L

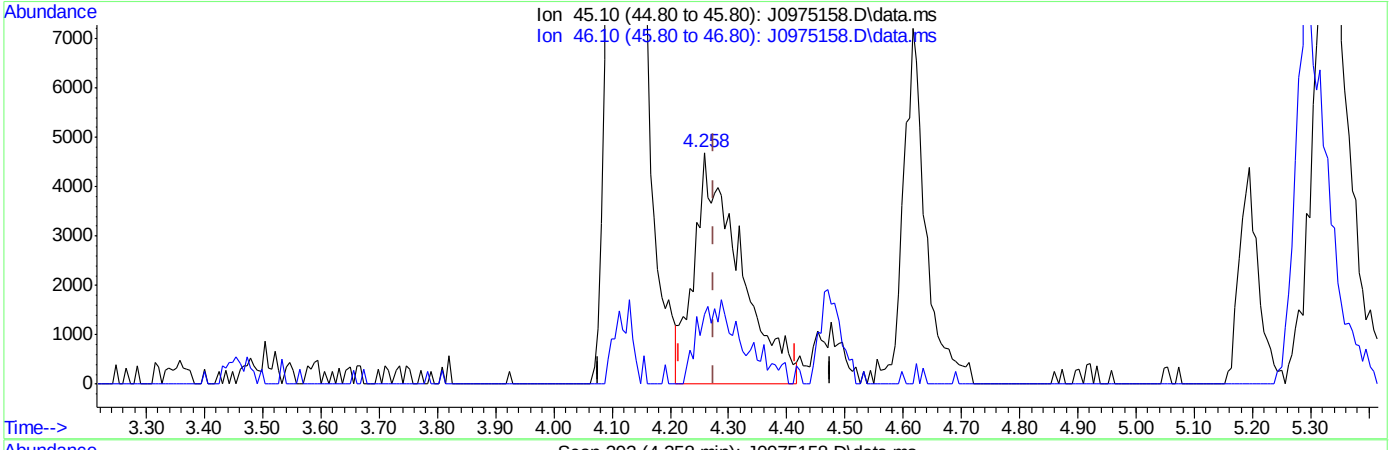
response 19905

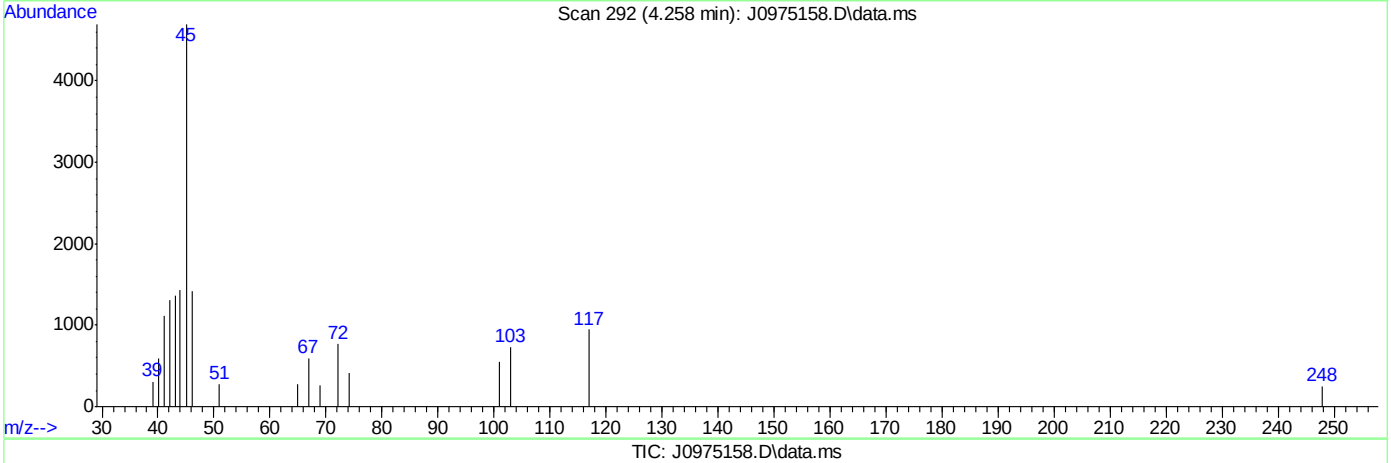
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	33.25
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975158.D
Acq On : 15 Mar 2016 5:26 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 12 Sample Multiplier: 1

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





TIC: J0975158.D\data.ms

(107) Ethanol

4.258min (-0.018) 633.21ug/L m

response 25660

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	30.12
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual
03/16/16 15:48

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 09:50:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1689319	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1274772	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	725111	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	82619	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	432540	50.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.92%			
46) 1,2-Dichloroethane-d4	7.482	65	519342	50.10	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.20%			
57) Toluene-d8	9.301	98	1670418	49.81	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.62%			
79) 4-Bromofluorobenzene	12.057	95	665209	50.72	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.44%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	354259	34.07	ug/L	96
3) Chloromethane	2.901	50	387748	34.84	ug/L	95
4) Vinyl Chloride	3.041	62	425438	37.32	ug/L	99
6) Bromomethane	3.461	94	278051	34.53	ug/L	95
7) Chloroethane	3.613	64	217628	38.56	ug/L	97
8) Trichlorofluoromethane	3.844	101	553847m	39.16	ug/L	
9) Ethyl Ether	4.124	59	256246	39.23	ug/L	99
11) 1,1-Dichloroethene	4.398	61	477652	39.05	ug/L	97
12) Freon 113	4.465	101	289648	34.25	ug/L	94
13) Carbon Disulfide	4.477	76	975070	38.29	ug/L	98
14) Iodomethane	4.586	142	507869	37.58	ug/L	97
15) Allyl chloride	4.921	41	379599	33.57	ug/L	96
16) Methylene Chloride	5.049	49	412563	37.43	ug/L	92
17) Acetone	5.067	58	98076	193.60	ug/L #	83
18) Methyl acetate	5.195	74	198401	201.11	ug/L	98
19) trans-1,2-Dichloroethene	5.231	61	456974	40.68	ug/L	97
20) Hexane	5.298	56	279737	38.81	ug/L	96
21) Methyl Tert Butyl Ether	5.341	73	881327	39.36	ug/L	79
22) Acetonitrile	5.590	40	102201	320.47	ug/L	97
23) Di-isopropyl ether	5.718	45	997320	38.91	ug/L	98
24) Chloroprene	5.870	53	429680	35.58	ug/L	98
25) 1,1-Dichloroethane	5.894	63	571999	38.14	ug/L	100
26) Acrylonitrile	5.931	53	411362	183.51	ug/L	96
27) ETBE	6.119	59	1009684	39.34	ug/L	98
28) Vinyl acetate	6.113	43	2362562	181.98	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	351476	36.50	ug/L	96
30) 2,2-Dichloropropane	6.606	77	469483	40.11	ug/L	98
31) Bromochloromethane	6.685	128	168857	38.79	ug/L	98
32) Cyclohexane	6.734	56	525225	37.25	ug/L	95
33) Chloroform	6.740	83	618400	37.14	ug/L	97
34) Ethyl acetate	6.807	43	910882	174.50	ug/L	98
35) Tetrahydrofuran	6.916	42	56856	37.55	ug/L	86
37) Carbon Tetrachloride	6.934	117	454277m	39.25	ug/L	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 09:50:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
38) 1,1,1-Trichloroethane	6.995	97	518860	36.44	ug/L	97
39) 2-Butanone	7.026	43	425502	194.64	ug/L	99
40) 1,1-Dichloropropene	7.105	75	445038	38.71	ug/L	99
41) tert-Butyl Formate	7.190	59	2170239	415.05	ug/L	91
42) Propionitrile	7.336	54	271119	350.21	ug/L	92
43) Methacrylonitrile	7.360	41	1247708	346.35	ug/L	95
44) Benzene	7.360	78	1298928	37.11	ug/L	99
45) TAME	7.433	73	884954	38.21	ug/L	97
47) 1,2-Dichloroethane	7.549	62	446703	36.47	ug/L	96
48) Trichloroethene	7.938	95	336292	37.08	ug/L	98
49) Methylcyclohexane	7.957	83	595618	39.09	ug/L	98
50) Dibromomethane	8.364	93	201900	39.89	ug/L	93
51) 1,2-Dichloropropane	8.449	63	325127	36.98	ug/L	95
52) Bromodichloromethane	8.498	83	448772	39.82	ug/L	98
53) Methyl methacrylate	8.595	41	201813	43.42	ug/L	98
54) 2-Chloroethyl vinyl ether	9.009	63	863009	193.28	ug/L	98
55) cis-1,3-Dichloropropene	9.112	75	525273	38.68	ug/L	99
58) Toluene	9.356	91	1352904	36.64	ug/L	99
59) 2-Nitropropane	9.556	41	286557	195.66	ug/L	99
60) 4-Methyl-2-pentanone	9.672	43	1016587	192.72	ug/L	99
61) trans-1,3-Dichloropropene	9.739	75	484292	41.88	ug/L	98
62) Tetrachloroethene	9.757	166	351639	35.63	ug/L	97
63) Ethyl methacrylate	9.836	69	298048	35.34	ug/L	95
64) 1,1,2-Trichloroethane	9.903	83	240723	39.97	ug/L	98
65) Dibromochloromethane	10.104	129	315391	41.20	ug/L	96
66) 1,3-Dichloropropane	10.183	76	466774	37.93	ug/L	99
67) 1,2-Dibromoethane	10.366	107	267849	39.24	ug/L	100
68) 2-hexanone	10.487	43	667151	191.27	ug/L	99
69) 1-Chlorohexane	10.798	91	438744	40.52	ug/L	98
70) Ethylbenzene	10.864	91	1605826	38.15	ug/L	99
71) Chlorobenzene	10.864	112	922655	37.57	ug/L	95
72) 1,1,1,2-Tetrachloroethane	10.913	131	324751	40.66	ug/L	99
73) m,p-Xylene	10.998	91	2439122	74.78	ug/L	98
74) o-Xylene	11.436	91	1286993	39.57	ug/L	99
75) Styrene	11.485	104	949865	36.54	ug/L	98
76) Bromoform	11.546	173	195280	40.08	ug/L	97
77) Isopropylbenzene	11.740	105	1525541	40.59	ug/L	100
80) cis-1,4-Dichloro-2-butene	12.087	53	84202	35.73	ug/L	96
81) n-Propylbenzene	12.160	91	1860742	40.44	ug/L	99
82) Bromobenzene	12.185	156	410484	37.89	ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	338472	38.72	ug/L	97
84) 1,3,5-Trimethylbenzene	12.343	105	1363036	39.15	ug/L	99
85) 2-Chlorotoluene	12.355	91	1311798	38.84	ug/L	97
86) trans-1,4-Dichloro-2-B...	12.398	53	90941	41.00	ug/L #	84
87) 1,2,3-Trichloropropane	12.385	110	90006	40.39	ug/L	95
88) Cyclohexanone	12.446	55	22052	157.38	ug/L	88
89) 4-Chlorotoluene	12.519	91	1209033	39.99	ug/L	98
90) a-Methyl Styrene	12.750	118	10042	1.01	ug/L #	1
91) tert-Butylbenzene	12.683	91	783832	38.53	ug/L	96
92) 1,2,4-Trimethylbenzene	12.756	105	1370993	39.43	ug/L	99

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 09:50:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Pentachloroethane	12.738	167	233557	35.49	ug/L	98
94) sec-Butylbenzene	12.872	105	1676645	39.88	ug/L	99
95) 4-Isopropyltoluene	13.000	119	1386532	39.32	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	749434	39.01	ug/L	96
97) 1,4-Dichlorobenzene	13.219	146	766175	37.57	ug/L	95
98) n-Butylbenzene	13.432	92	833176	40.98	ug/L	99
99) Benzyl Chloride	13.450	126	123442	41.28	ug/L #	79
100) 1,2-Dichlorobenzene	13.645	146	709720	38.60	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	50379	37.51	ug/L	96
102) Hexachlorobutadiene	14.928	225	304579	37.08	ug/L	99
103) 1,2,4-Trichlorobenzene	14.971	180	530342	39.51	ug/L	97
104) Naphthalene	15.257	128	930860	41.50	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	466779	39.24	ug/L	98
107) Ethanol	4.276	45	25799m	682.26	ug/L	
108) acrolein	4.757	56	213250	220.76	ug/L	94
109) Tert Butyl Alcohol	5.371	59	162595	406.01	ug/L #	57
110) tert Amyl alcohol	7.573	59	127486	453.85	ug/L	96
111) Isobutyl alcohol	7.458	42	113595	742.75	ug/L	96
112) 1,4-Dioxane	8.674	88	27105	826.21	ug/L	93
113) 3,3-Dimethyl-1-butanol	10.433	57	743617	2160.96	ug/L	98

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

7.6.9

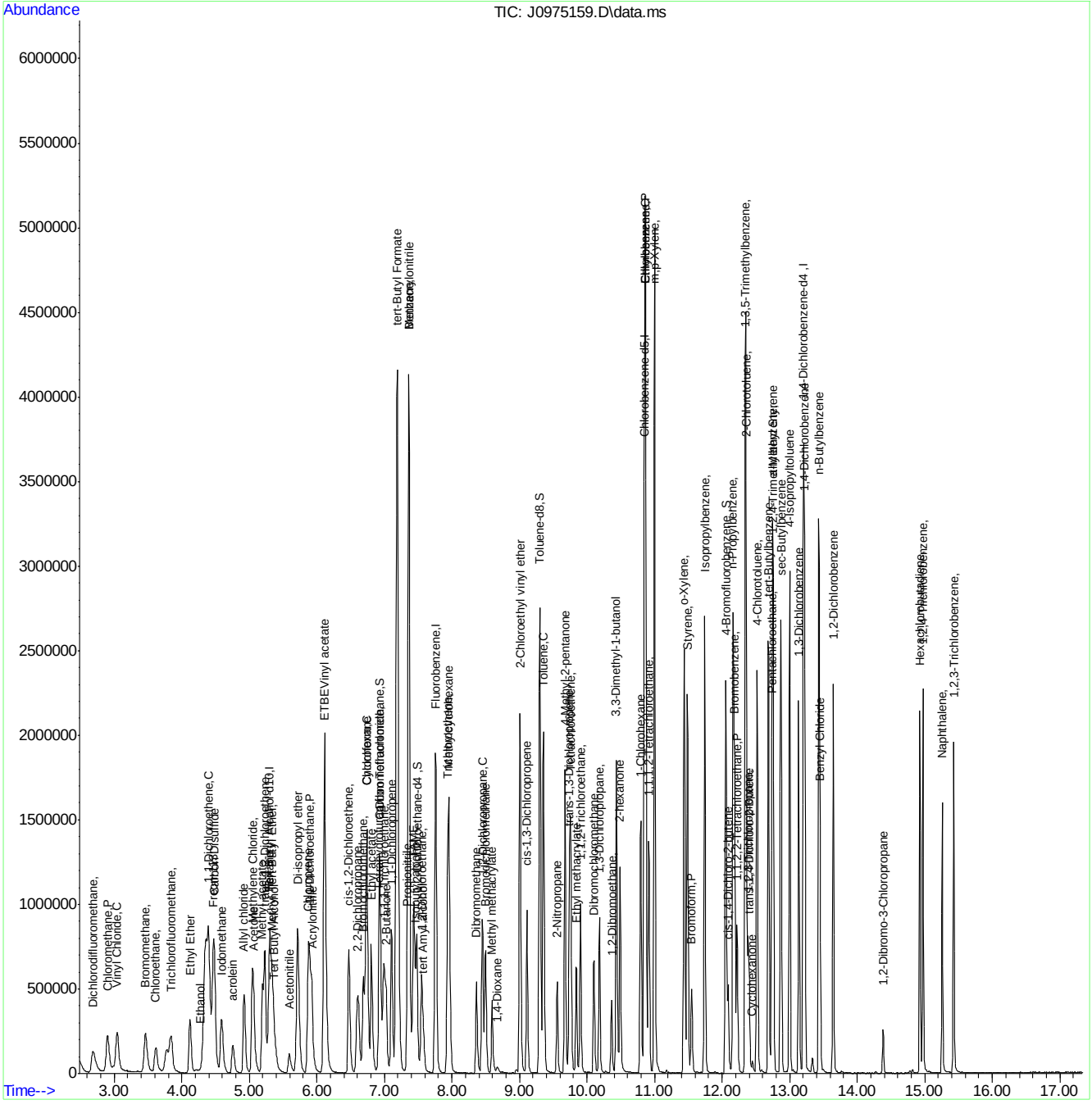
7

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 09:50:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA3763

Manual Integration Approval Summary

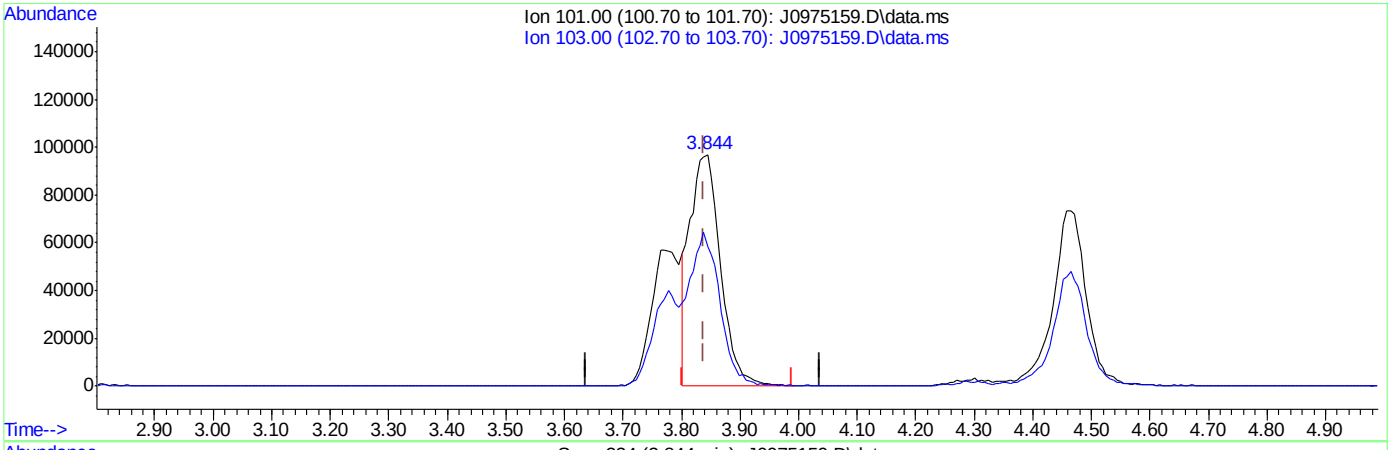
Sample Number:	VJ5237-ICV5237	**Method:**	SW846 8260B
Lab FileID:	J0975159.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 17:51	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

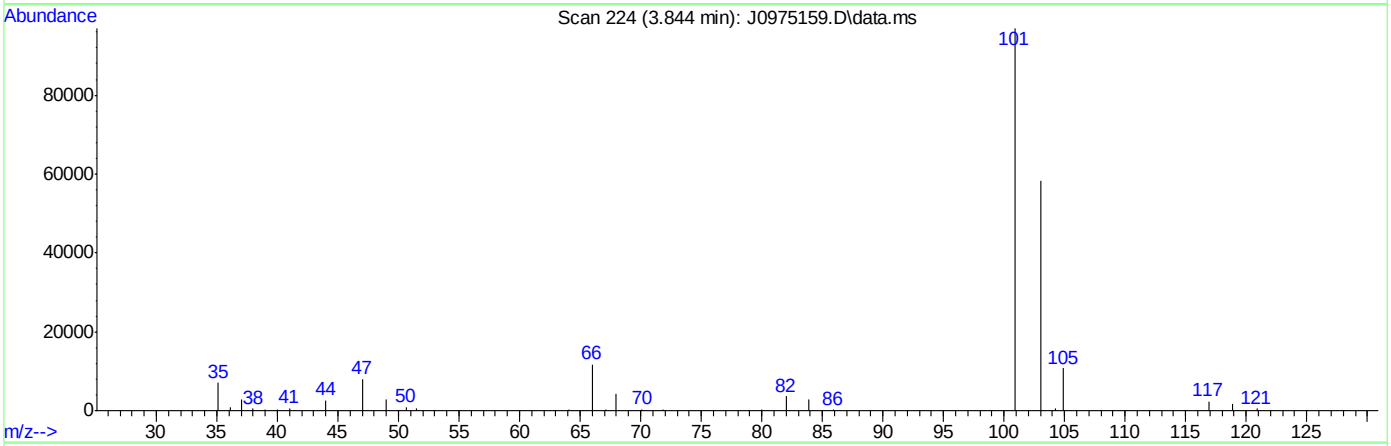
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 24.89ug/L

response 352017

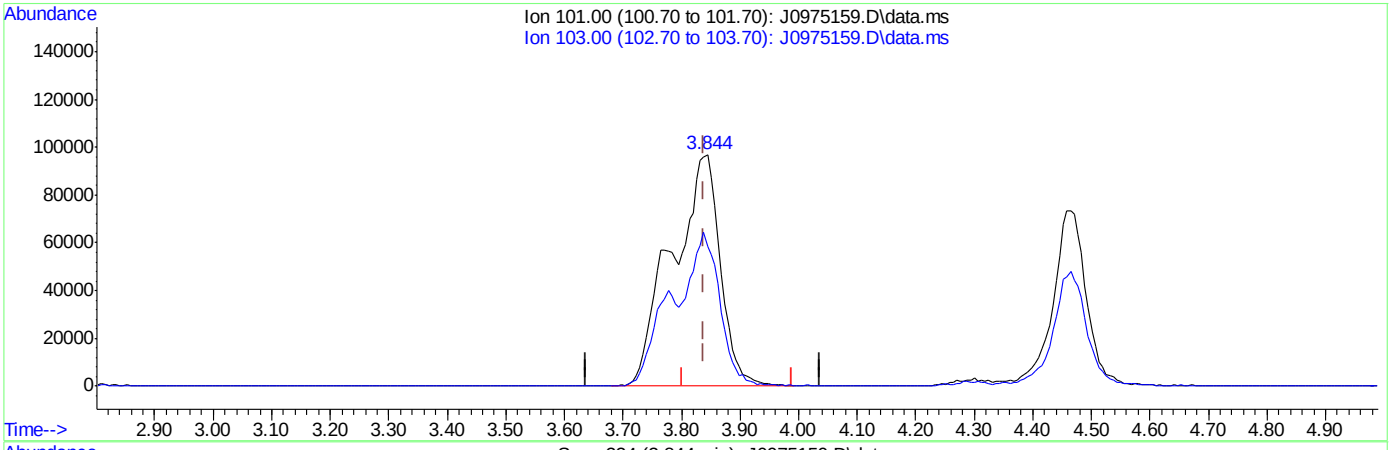
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.08
0.00	0.00	0.00
0.00	0.00	0.00

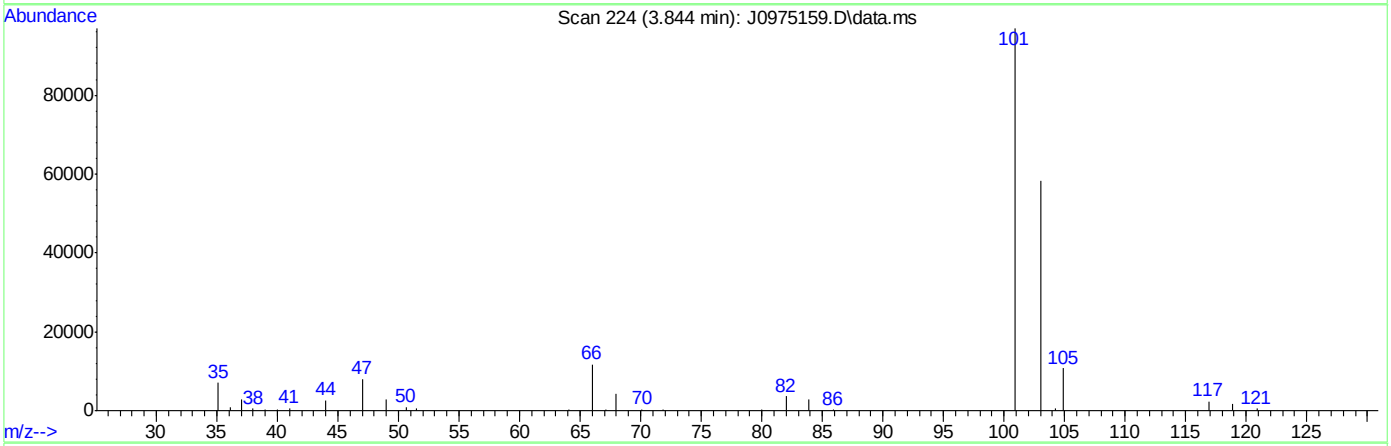
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 39.16ug/L m

response 553847

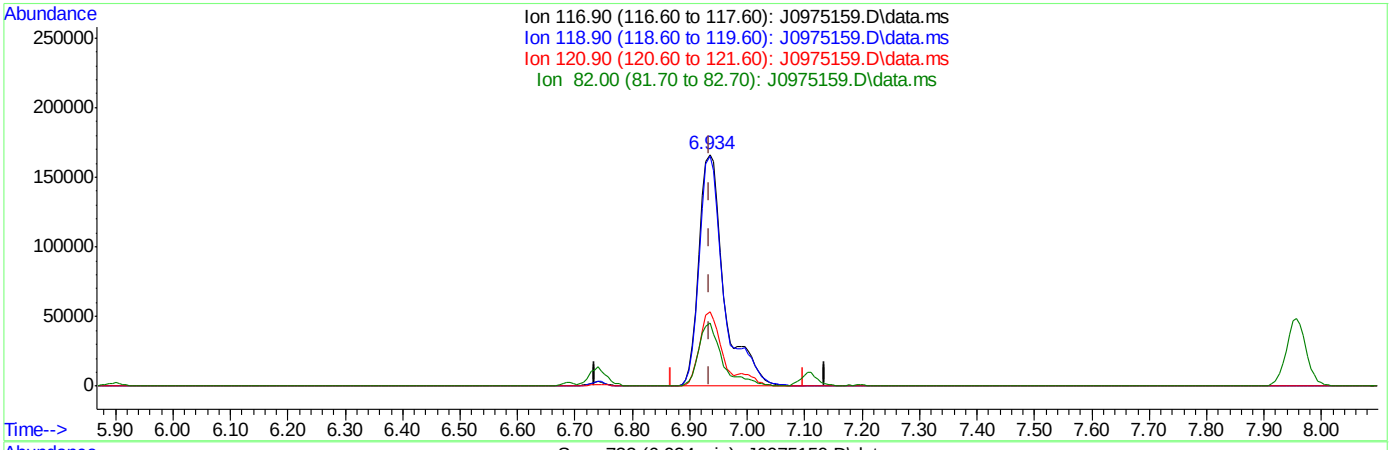
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.08
0.00	0.00	0.00
0.00	0.00	0.00

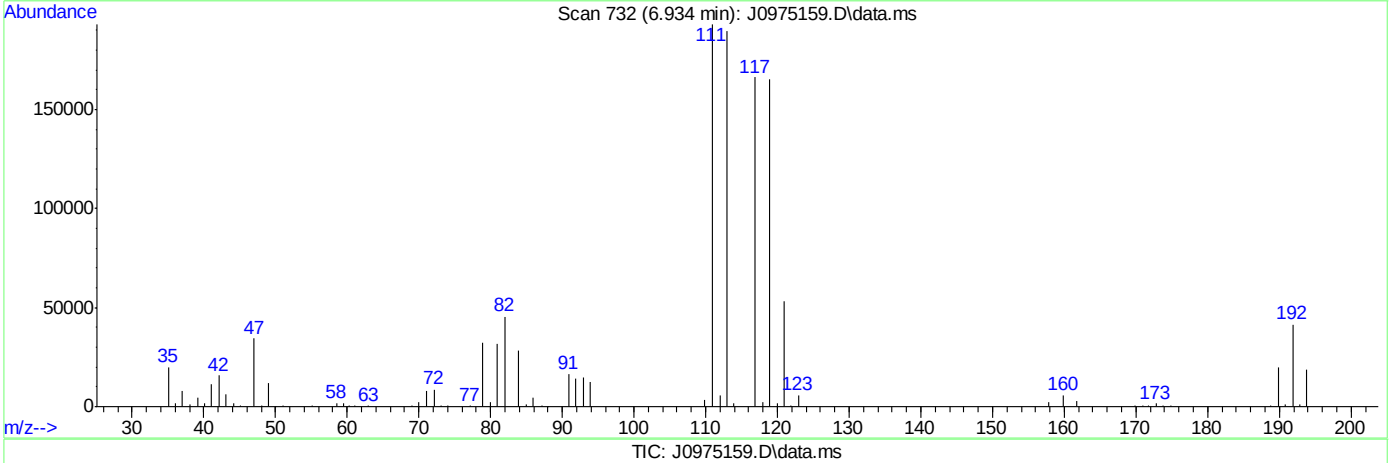
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 43.99ug/L

response 509174

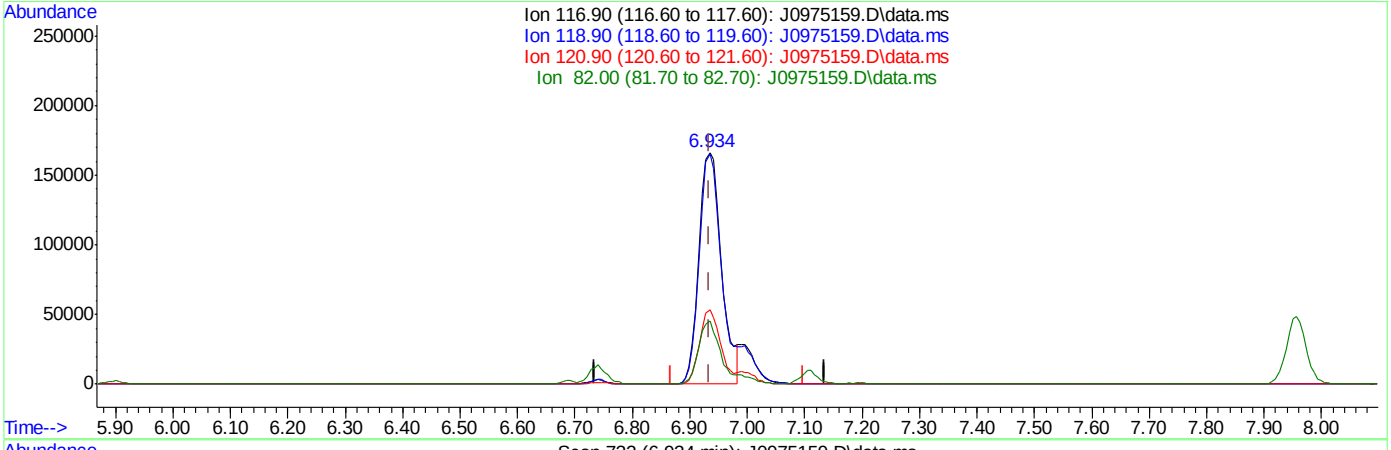
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	99.23
120.90	31.80	31.88
82.00	25.40	27.27

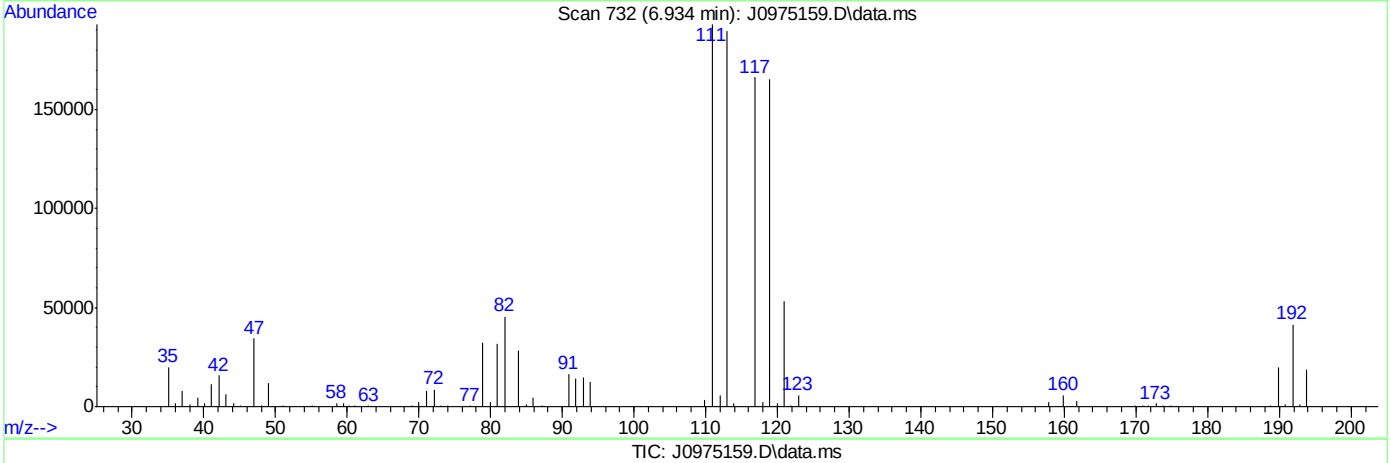
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 39.25ug/L m

response 454277

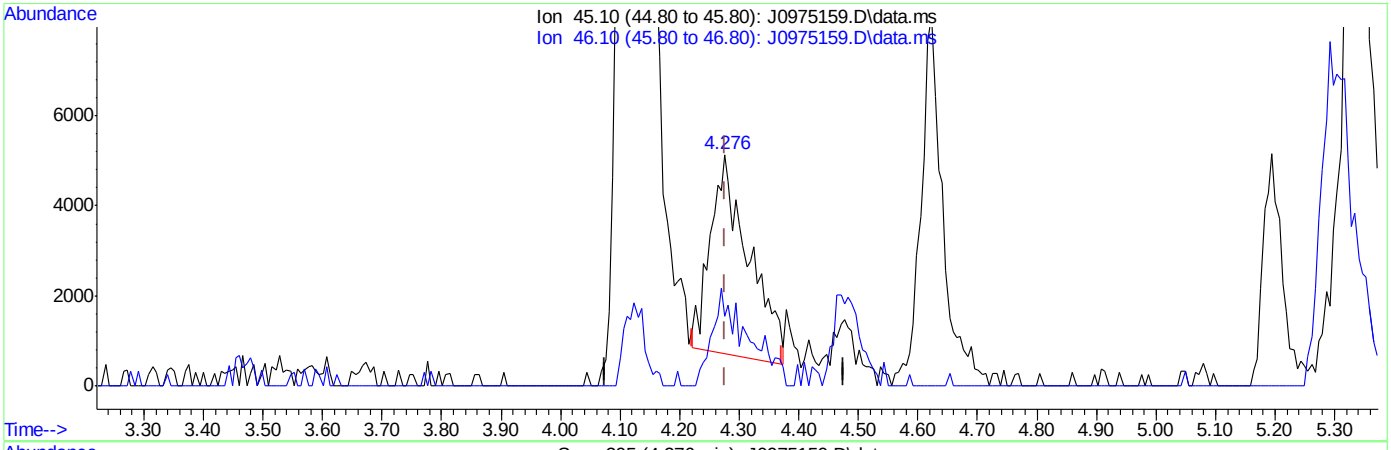
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	99.23
120.90	31.80	31.88
82.00	25.40	27.27

SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



TIC: J0975159.D\data.ms

(107) Ethanol

4.276min (-0.000) 508.74ug/L

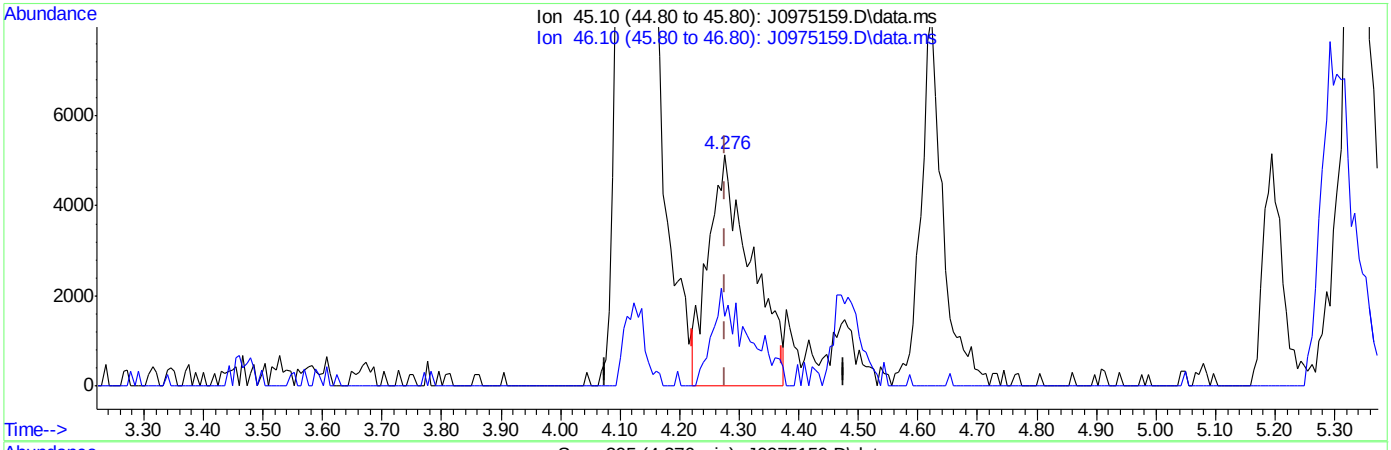
response 19635

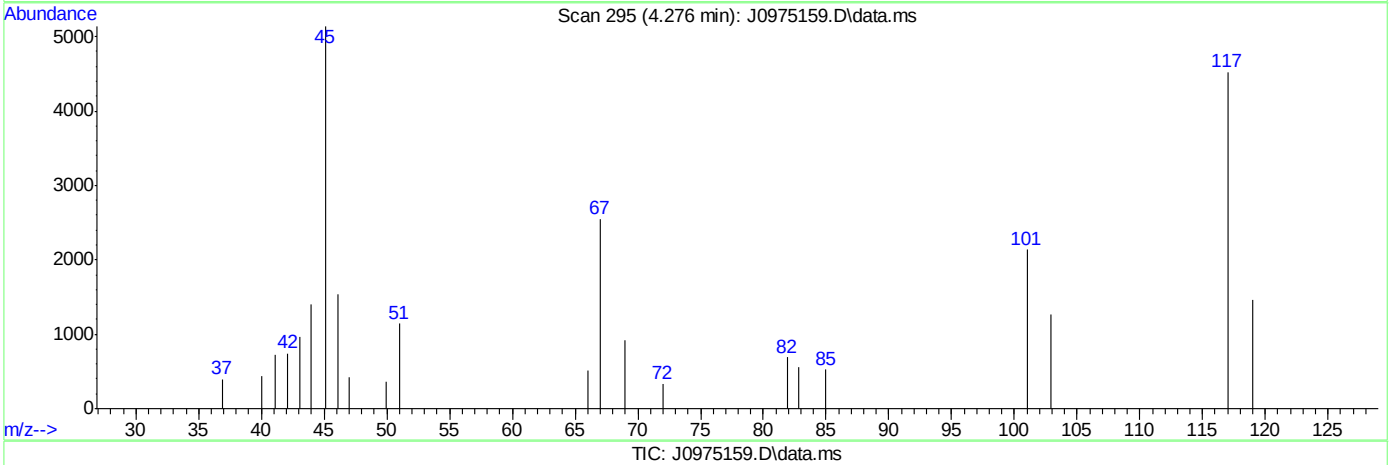
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	36.04
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975159.D
Acq On : 15 Mar 2016 5:51 pm
Operator : DARSHNAP
Sample : ICV5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 16 08:34:57 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0975159.D\data.ms

(107) Ethanol

4.276min (-0.000) 682.26ug/L m

response 25799

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	30.02
0.00	0.00	0.00
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/10/16 11:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976360.D
Acq On : 9 May 2016 9:11 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 08:16:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1310723	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1058345	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	597828	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	81740	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	328477	49.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.78%			
46) 1,2-Dichloroethane-d4	7.476	65	403625	50.18	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.36%			
57) Toluene-d8	9.301	98	1299963	46.69	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 93.38%			
79) 4-Bromofluorobenzene	12.051	95	537998	49.75	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	303692	37.64	ug/L	97
3) Chloromethane	2.901	50	342444	39.66	ug/L	98
4) Vinyl Chloride	3.047	62	364116	41.17	ug/L	98
5) 1,3-Butadiene	3.041	54	261381	39.75	ug/L	99
6) Bromomethane	3.461	94	214910	34.39	ug/L	99
7) Chloroethane	3.613	64	161420	36.74	ug/L	97
8) Trichlorofluoromethane	3.838	101	495991m	45.20	ug/L	
9) Ethyl Ether	4.118	59	199419	39.35	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.361	67	286733	37.63	ug/L	99
11) 1,1-Dichloroethene	4.398	61	361382	38.08	ug/L	97
12) Freon 113	4.471	101	235465	35.88	ug/L	96
13) Carbon Disulfide	4.471	76	739000	37.40	ug/L	93
14) Iodomethane	4.586	142	392951	37.47	ug/L	99
15) Allyl chloride	4.921	41	350343	39.94	ug/L	93
16) Methylene Chloride	5.042	49	350383	41.03	ug/L	99
17) Acetone	5.061	58	81538	207.44	ug/L	92
18) Methyl acetate	5.188	74	140051	182.97	ug/L	99
19) trans-1,2-Dichloroethene	5.225	61	334283	38.35	ug/L	99
20) Hexane	5.298	56	214235	38.31	ug/L	95
21) Methyl Tert Butyl Ether	5.334	73	680038	39.14	ug/L	82
22) Acetonitrile	5.590	40	103178	418.35	ug/L	98
23) Di-isopropyl ether	5.712	45	769771	38.70	ug/L	97
24) Chloroprene	5.864	53	360908	38.52	ug/L	97
25) 1,1-Dichloroethane	5.894	63	455965	39.18	ug/L	99
26) Acrylonitrile	5.918	53	344938	198.32	ug/L	98
27) ETBE	6.113	59	836042	41.98	ug/L	99
28) Vinyl acetate	6.101	43	2217349	220.13	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	285616	38.23	ug/L	95
30) 2,2-Dichloropropane	6.606	77	373955	41.18	ug/L	95
31) Bromochloromethane	6.685	128	134181	39.73	ug/L	97
32) Cyclohexane	6.734	56	400076	36.57	ug/L	96
33) Chloroform	6.734	83	500885	38.77	ug/L	98
34) Ethyl acetate	6.801	43	755303	186.49	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976360.D
Acq On : 9 May 2016 9:11 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 08:16:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.910	42	41844	35.56	ug/L		94
37)	Carbon Tetrachloride	6.928	117	370208m	41.23	ug/L		
38)	1,1,1-Trichloroethane	6.989	97	423741	38.36	ug/L		97
39)	2-Butanone	7.020	43	342817	202.07	ug/L		98
40)	1,1-Dichloropropene	7.105	75	331869	37.20	ug/L		97
41)	tert-Butyl Formate	7.184	59	1841075	453.90	ug/L		99
42)	Propionitrile	7.330	54	238223	396.60	ug/L		93
43)	Methacrylonitrile	7.354	41	1079886	386.35	ug/L		98
44)	Benzene	7.354	78	1119356	41.22	ug/L		99
45)	TAME	7.427	73	762385	42.42	ug/L		96
47)	1,2-Dichloroethane	7.543	62	371815	39.12	ug/L		99
48)	Trichloroethene	7.932	95	269488	38.30	ug/L		99
49)	Methylcyclohexane	7.956	83	458491	38.78	ug/L		99
50)	Dibromomethane	8.358	93	154005	39.22	ug/L		99
51)	1,2-Dichloropropane	8.449	63	269161	39.45	ug/L		95
52)	Bromodichloromethane	8.492	83	362143	41.41	ug/L		99
53)	Methyl methacrylate	8.589	41	144894	40.18	ug/L		97
54)	2-Chloroethyl vinyl ether	9.003	63	761767	219.88	ug/L		99
55)	cis-1,3-Dichloropropene	9.106	75	425735	40.37	ug/L		95
58)	Toluene	9.350	91	1155681	37.70	ug/L		99
59)	2-Nitropropane	9.556	41	230566	189.57	ug/L		97
60)	4-Methyl-2-pentanone	9.672	43	917929	209.60	ug/L		99
61)	trans-1,3-Dichloropropene	9.733	75	387705	40.37	ug/L		94
62)	Tetrachloroethene	9.757	166	277828	33.91	ug/L		98
63)	Ethyl methacrylate	9.836	69	276792	39.53	ug/L		99
64)	1,1,2-Trichloroethane	9.903	83	194867	38.97	ug/L		98
65)	Dibromochloromethane	10.098	129	261112	41.08	ug/L		97
66)	1,3-Dichloropropane	10.183	76	387897	37.97	ug/L		99
67)	1,2-Dibromoethane	10.359	107	213141	37.61	ug/L		99
68)	2-hexanone	10.487	43	644583	222.59	ug/L		99
69)	1-Chlorohexane	10.797	91	353145	39.29	ug/L		98
70)	Ethylbenzene	10.858	91	1407115	40.26	ug/L		99
71)	Chlorobenzene	10.864	112	818832	40.16	ug/L		97
72)	1,1,1,2-Tetrachloroethane	10.913	131	276544	41.70	ug/L		97
73)	m,p-Xylene	10.998	91	2120079	78.86	ug/L		98
74)	o-Xylene	11.436	91	1089841	40.36	ug/L		100
75)	Styrene	11.485	104	874342	40.58	ug/L		98
76)	Bromoform	11.546	173	170074	41.97	ug/L		98
77)	Isopropylbenzene	11.740	105	1293529	41.45	ug/L		99
80)	cis-1,4-Dichloro-2-butene	12.087	53	79108	40.72	ug/L		91
81)	n-Propylbenzene	12.160	91	1584847	41.78	ug/L		99
82)	Bromobenzene	12.185	156	366802	41.07	ug/L		100
83)	1,1,2,2-Tetrachloroethane	12.221	83	298462	41.41	ug/L		97
84)	1,3,5-Trimethylbenzene	12.343	105	1219250	42.48	ug/L		100
85)	2-Chlorotoluene	12.349	91	1162897	41.76	ug/L		99
86)	trans-1,4-Dichloro-2-B...	12.397	53	73281	40.08	ug/L	#	85
87)	1,2,3-Trichloropropane	12.379	110	77191	42.02	ug/L		98
88)	Cyclohexanone	12.446	55	36710	317.77	ug/L		90
89)	4-Chlorotoluene	12.519	91	1059486	42.50	ug/L		98
90)	a-Methyl Styrene	12.604	118	652081	79.55	ug/L		97

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976360.D
Acq On : 9 May 2016 9:11 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 08:16:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	681793	40.65	ug/L	99
92) 1,2,4-Trimethylbenzene	12.750	105	1218459	42.50	ug/L	99
93) Pentachloroethane	12.738	167	237579	44.10	ug/L	98
94) sec-Butylbenzene	12.866	105	1440441	41.56	ug/L	100
95) 4-Isopropyltoluene	13.000	119	1227064	42.20	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	639295	40.36	ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	663262	39.45	ug/L	96
98) n-Butylbenzene	13.432	92	709464	42.33	ug/L	99
99) Benzyl Chloride	13.450	126	109952	44.35	ug/L #	72
100) 1,2-Dichlorobenzene	13.645	146	587877	38.78	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	40384	36.50	ug/L	97
102) Hexachlorobutadiene	14.928	225	256296	37.85	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	388616	35.11	ug/L	98
104) Naphthalene	15.257	128	564873	30.48	ug/L	100
105) 1,2,3-Trichlorobenzene	15.427	180	329409	33.59	ug/L	96
107) Ethanol	4.270	45	34717m	959.68	ug/L	
108) acrolein	4.750	56	157389	164.69	ug/L	90
109) Tert Butyl Alcohol	5.377	59	154681	390.41	ug/L	97
110) tert Amyl alcohol	7.573	59	122981	442.52	ug/L	97
111) Isobutyl alcohol	7.452	42	116955	775.45	ug/L	93
112) 1,4-Dioxane	8.668	88	32603	1004.49	ug/L	95
113) 3,3-Dimethyl-1-butanol	10.432	57	732915	2152.76	ug/L	98

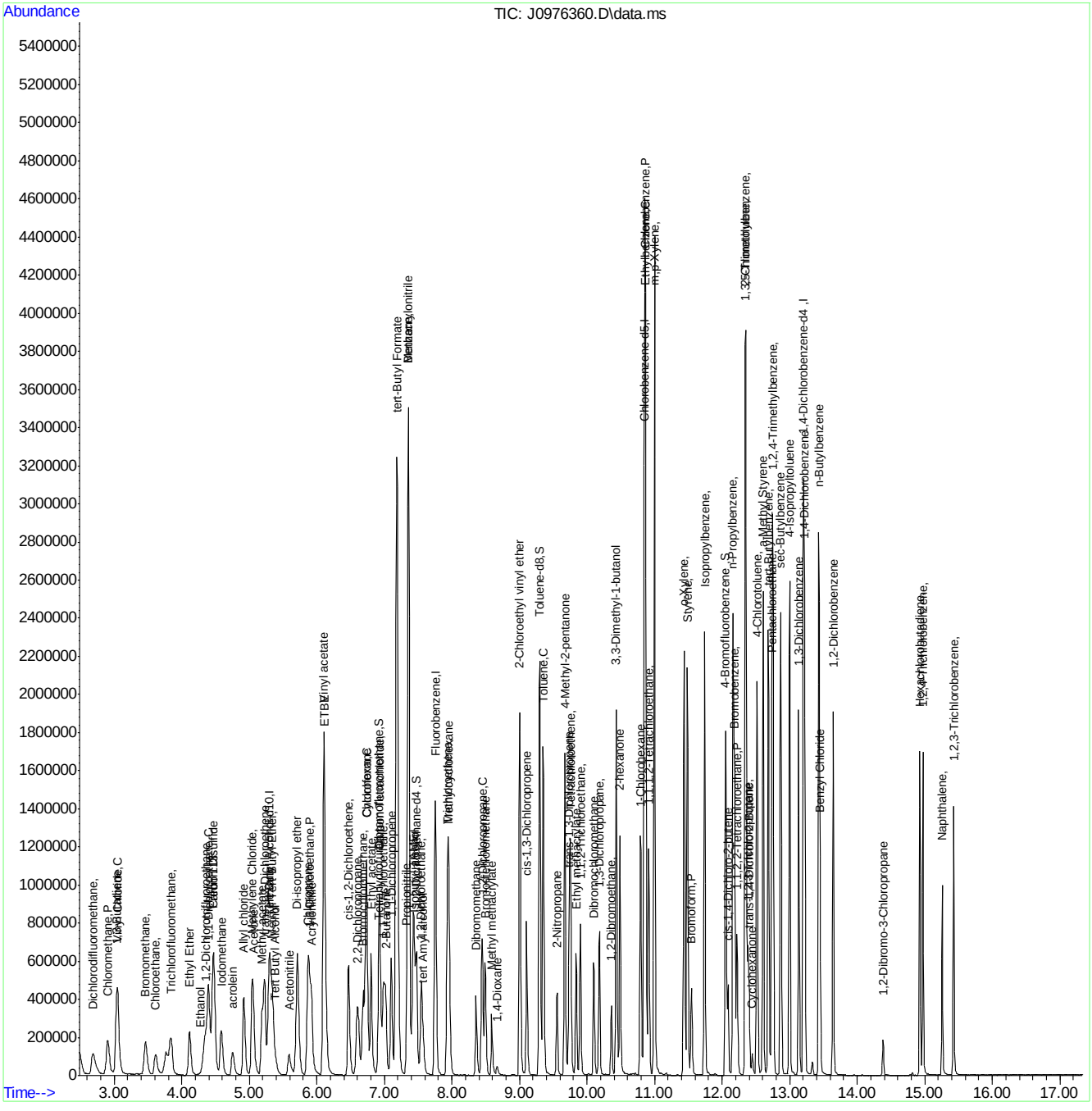
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976360.D
Acq On : 9 May 2016 9:11 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 10 08:16:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



MSJ031516.M Tue May 10 08:16:49 2016 Page: 4

SGS ACCUTEST FA33763

Manual Integration Approval Summary

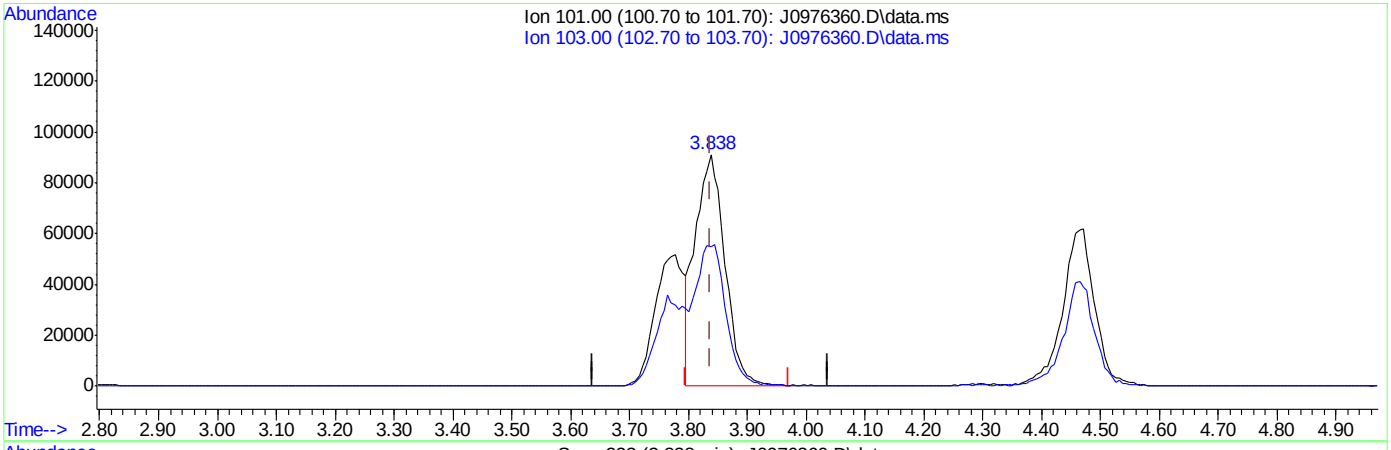
Sample Number:	VJ5289-CC5237	**Method:**	SW846 8260B
Lab FileID:	J0976360.D	**Analyst approved:**	05/10/16 10:38 Darshna Patel
Injection Time:	05/09/16 09:11	**Supervisor approved:**	05/10/16 11:02 Juan Garcia

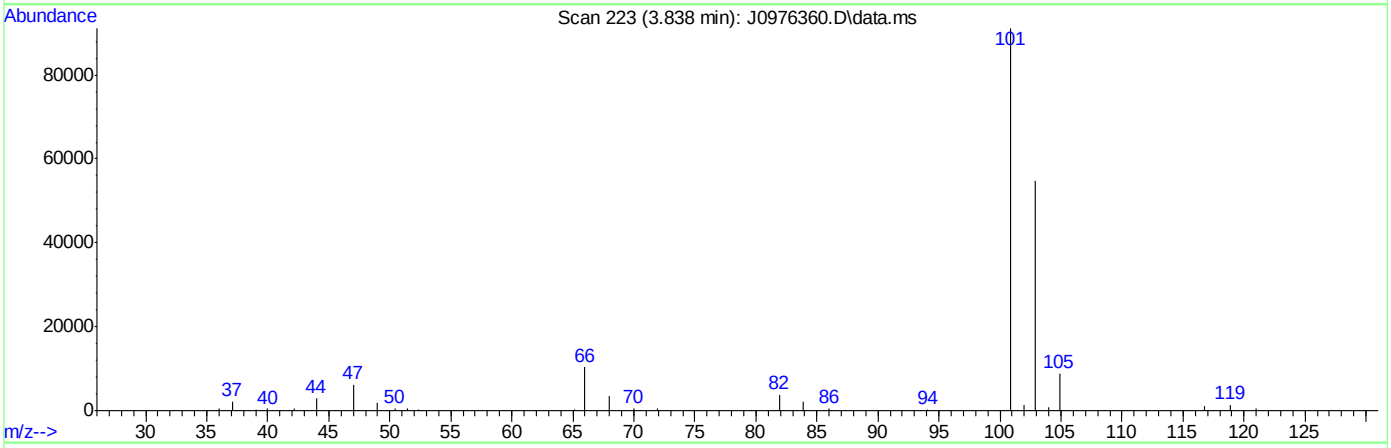
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976360.D
Acq On : 9 May 2016 9:11 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 09:33:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976360.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 29.03ug/L

response 318489

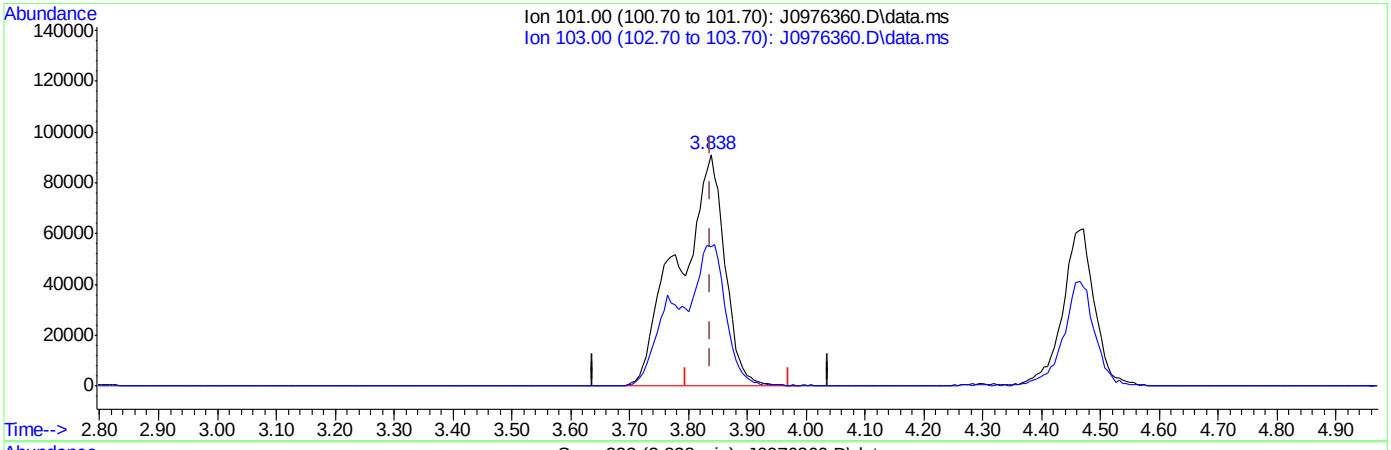
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.18
0.00	0.00	0.00
0.00	0.00	0.00

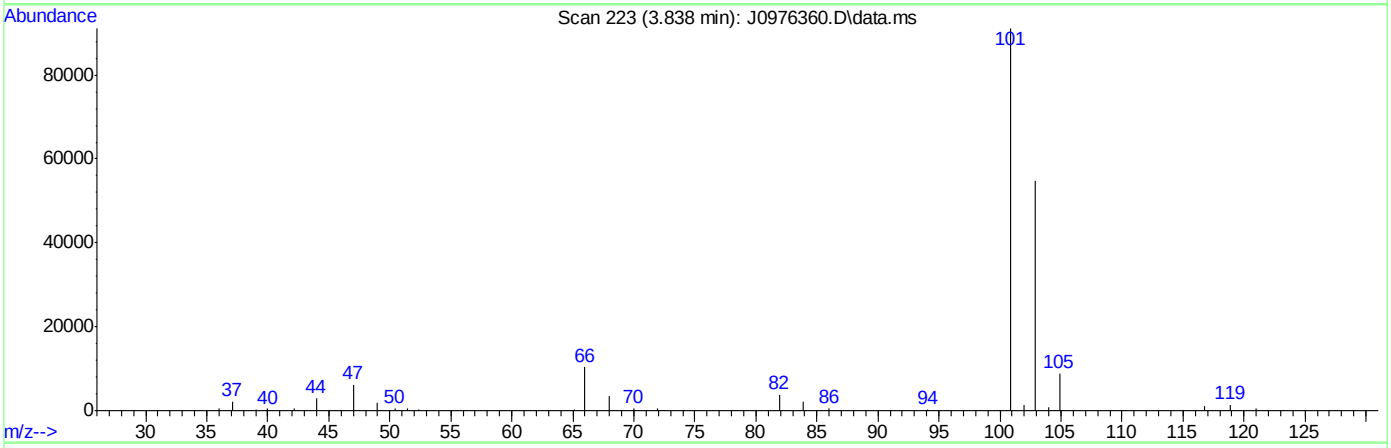
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976360.D
Acq On : 9 May 2016 9:11 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 09:33:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976360.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 45.20ug/L m

response 495991

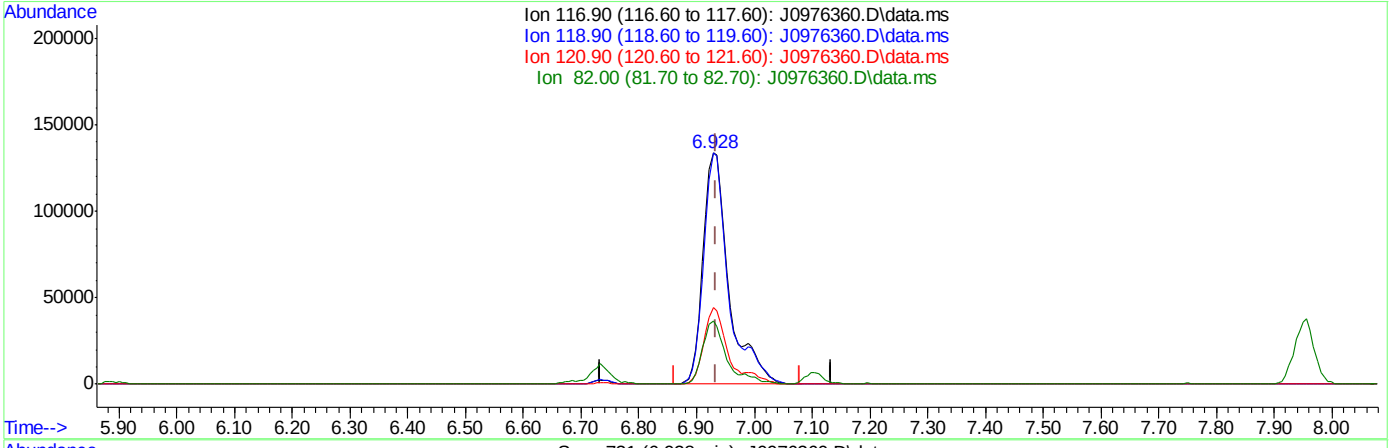
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.18
0.00	0.00	0.00
0.00	0.00	0.00

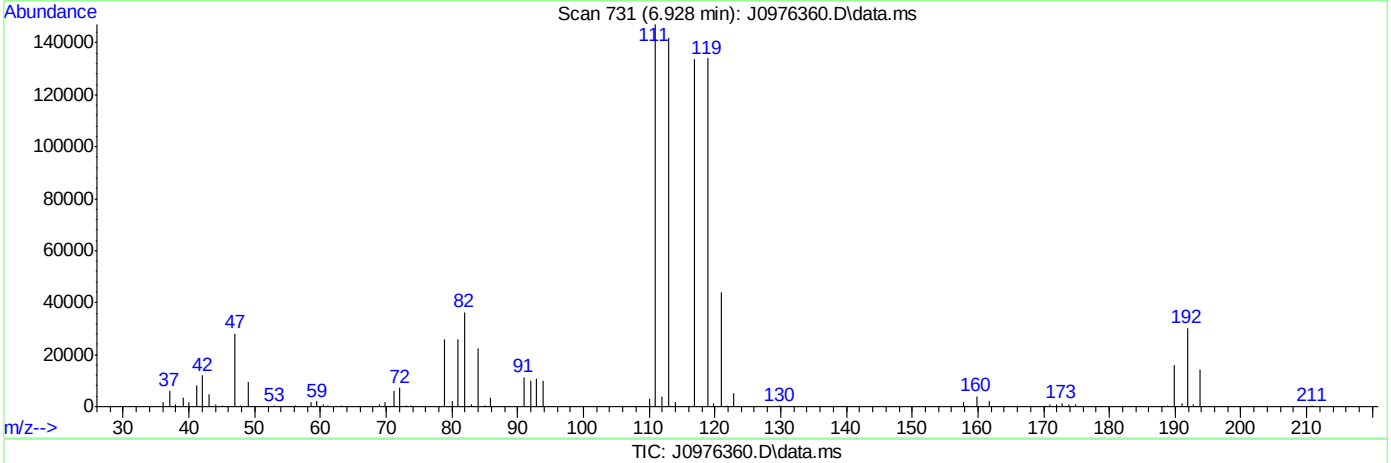
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976360.D
Acq On : 9 May 2016 9:11 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 09:33:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976360.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 46.45ug/L

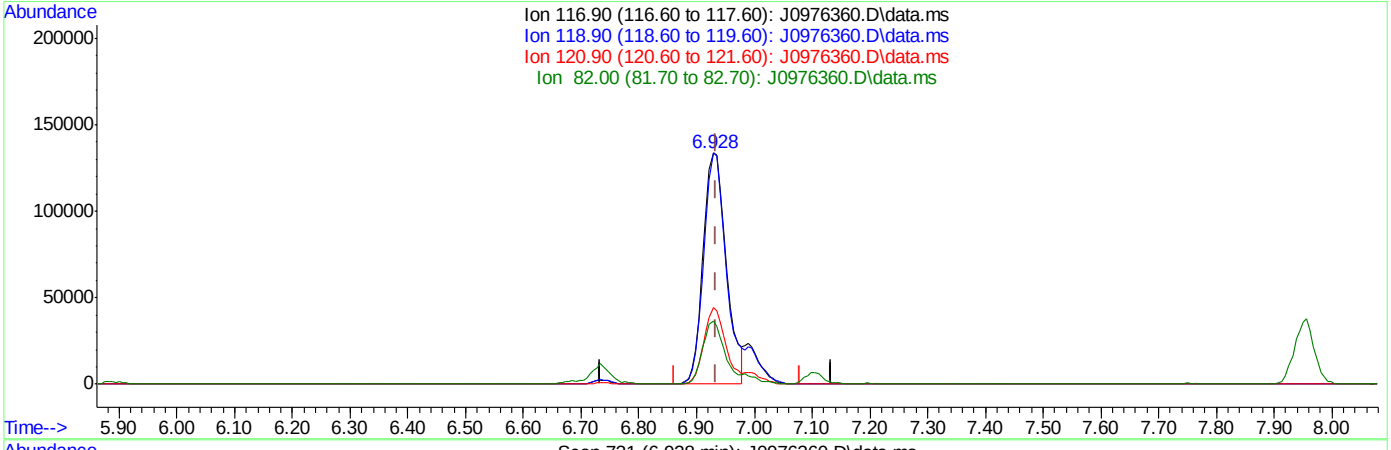
response 417095

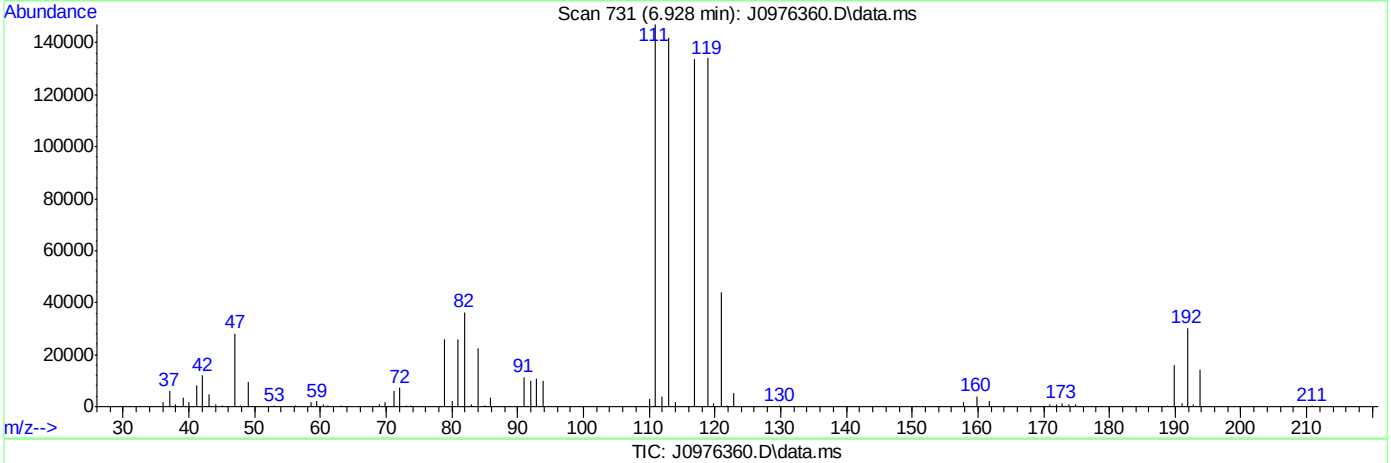
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	100.29
120.90	31.80	33.03
82.00	25.40	27.25

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976360.D
Acq On : 9 May 2016 9:11 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 09:33:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976360.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 41.23ug/L m

response 370208

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	100.29
120.90	31.80	33.03
82.00	25.40	27.25

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976360.D
Acq On : 9 May 2016 9:11 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 09:33:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
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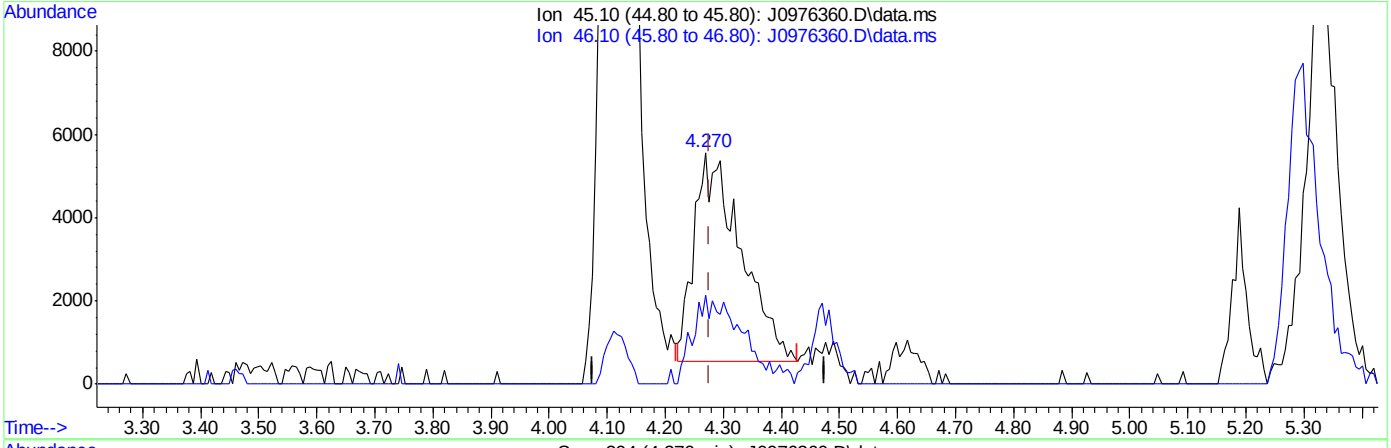
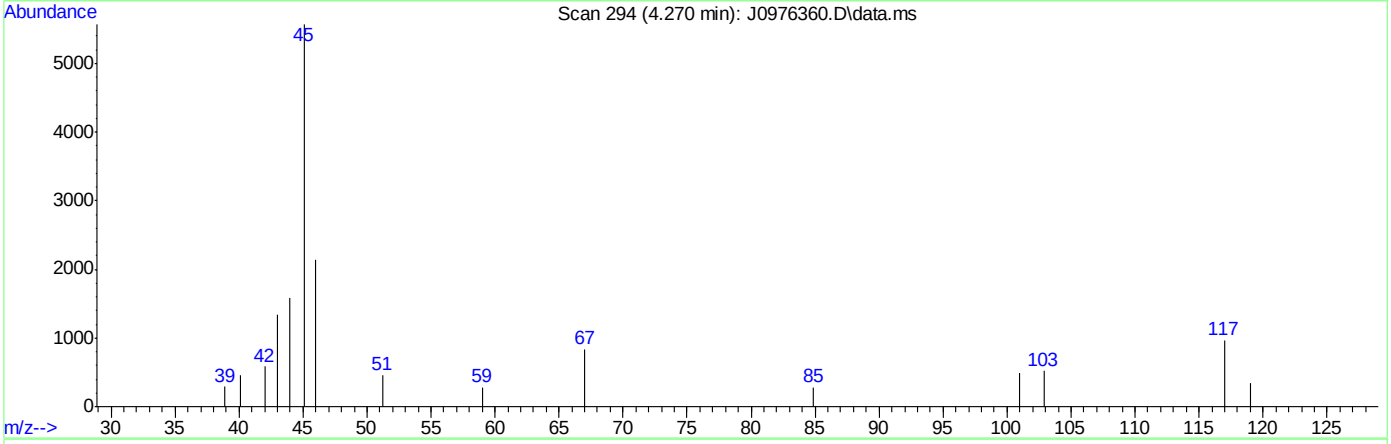
Response via : Initial Calibration





TIC: J0976360.D\data.ms

(107) Ethanol

4.270min (-0.006) 755.77ug/L

response 28027

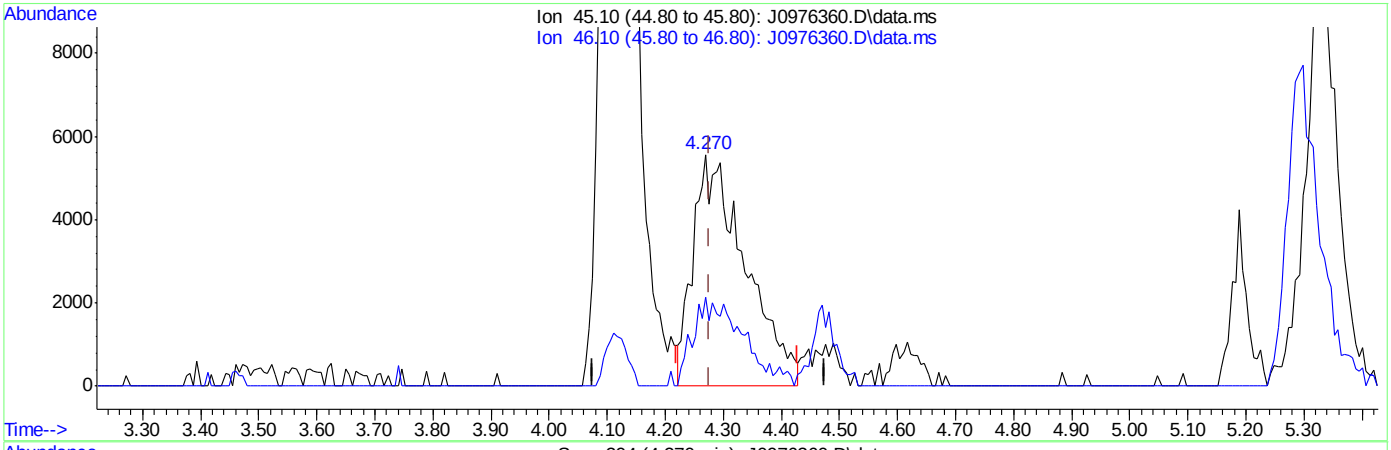
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	42.70
0.00	0.00	0.00
0.00	0.00	0.00

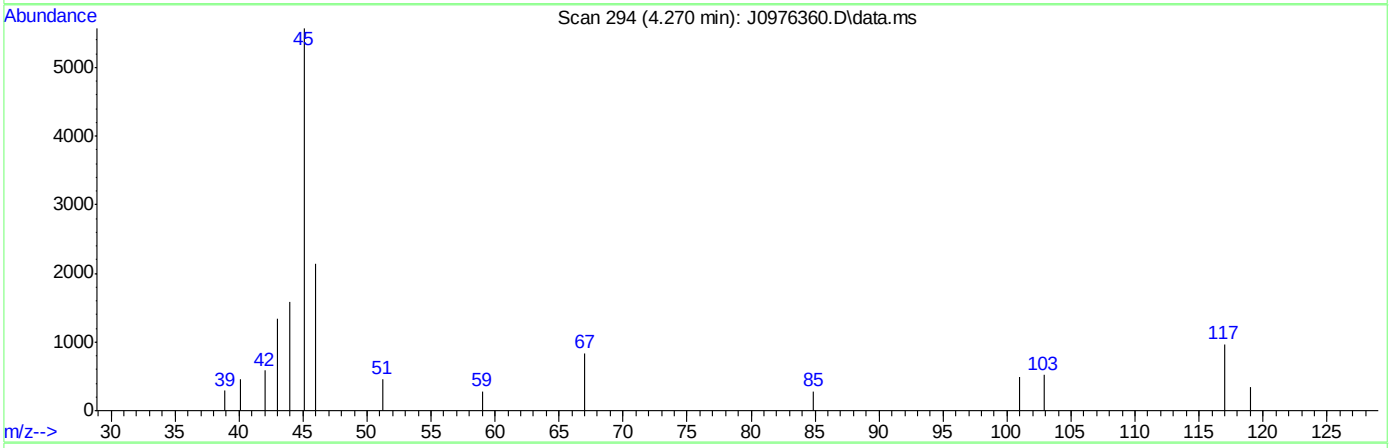
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976360.D
Acq On : 9 May 2016 9:11 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33802,VJ5289,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 09 09:33:33 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976360.D\data.ms

(107) Ethanol

4.270min (-0.006) 959.68ug/L m

response 34717

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	38.57
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/10/16 11:02

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 08:23:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1325281	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	1074488	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.201	152	613233	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	80359	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.929	113	334269	49.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.42%			
46) 1,2-Dichloroethane-d4	7.482	65	393847	48.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 96.86%			
57) Toluene-d8	9.301	98	1312914	46.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 92.88%			
79) 4-Bromofluorobenzene	12.051	95	548289	49.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	310560	38.07	ug/L	97
3) Chloromethane	2.901	50	348769	39.95	ug/L	99
4) Vinyl Chloride	3.047	62	374594	41.89	ug/L	97
5) 1,3-Butadiene	3.041	54	299498	45.05	ug/L	98
6) Bromomethane	3.461	94	220139	34.89	ug/L	95
7) Chloroethane	3.625	64	170067	38.40	ug/L	98
8) Trichlorofluoromethane	3.844	101	502761m	45.32	ug/L	
9) Ethyl Ether	4.124	59	189335	36.95	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.361	67	307559	39.92	ug/L	97
11) 1,1-Dichloroethene	4.404	61	397970	41.47	ug/L	98
12) Freon 113	4.471	101	255490	38.51	ug/L	95
13) Carbon Disulfide	4.477	76	798280	39.95	ug/L	96
14) Iodomethane	4.592	142	412508	38.91	ug/L	99
15) Allyl chloride	4.927	41	349766	39.43	ug/L	93
16) Methylene Chloride	5.049	49	341614	39.54	ug/L	96
17) Acetone	5.073	58	75911	191.00	ug/L	90
18) Methyl acetate	5.195	74	132138	170.74	ug/L	94
19) trans-1,2-Dichloroethene	5.231	61	357915	40.61	ug/L	98
20) Hexane	5.298	56	226390	40.03	ug/L	95
21) Methyl Tert Butyl Ether	5.341	73	669816	38.13	ug/L	81
22) Acetonitrile	5.596	40	92927	372.07	ug/L	93
23) Di-isopropyl ether	5.718	45	788710	39.22	ug/L	98
24) Chloroprene	5.876	53	388771	41.03	ug/L	98
25) 1,1-Dichloroethane	5.900	63	468164	39.79	ug/L	99
26) Acrylonitrile	5.925	53	329851	187.56	ug/L	98
27) ETBE	6.119	59	832178	41.33	ug/L	98
28) Vinyl acetate	6.107	43	2083076	204.52	ug/L	99
29) cis-1,2-Dichloroethene	6.472	96	297079	39.32	ug/L	95
30) 2,2-Dichloropropane	6.606	77	380267	41.41	ug/L	94
31) Bromochloromethane	6.691	128	134704	39.44	ug/L	94
32) Cyclohexane	6.734	56	447245	40.43	ug/L	97
33) Chloroform	6.740	83	522556	40.00	ug/L	98
34) Ethyl acetate	6.807	43	699344	170.78	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 08:23:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.916	42	39661	33.26 ug/L	93
37) Carbon Tetrachloride	6.935	117	412058m	45.38 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	462519	41.41 ug/L	99
39) 2-Butanone	7.020	43	327600	191.03 ug/L	94
40) 1,1-Dichloropropene	7.105	75	365918	40.57 ug/L	99
41) tert-Butyl Formate	7.190	59	1747394	426.01 ug/L	97
42) Propionitrile	7.336	54	215491	354.82 ug/L	92
43) Methacrylonitrile	7.360	41	958153	339.03 ug/L	97
44) Benzene	7.360	78	1149460	41.87 ug/L	99
45) TAME	7.433	73	755088	41.55 ug/L	96
47) 1,2-Dichloroethane	7.549	62	363476	37.82 ug/L	99
48) Trichloroethene	7.938	95	291183	40.93 ug/L	99
49) Methylcyclohexane	7.957	83	509387	42.61 ug/L	99
50) Dibromomethane	8.358	93	147022	37.03 ug/L	98
51) 1,2-Dichloropropane	8.449	63	268968	38.99 ug/L	96
52) Bromodichloromethane	8.492	83	360886	40.82 ug/L	99
53) Methyl methacrylate	8.589	41	131905	36.18 ug/L	95
54) 2-Chloroethyl vinyl ether	9.009	63	669676	191.18 ug/L	97
55) cis-1,3-Dichloropropene	9.106	75	412006	38.67 ug/L	97
58) Toluene	9.356	91	1197186	38.47 ug/L	99
59) 2-Nitropropane	9.557	41	210070	169.97 ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	870759	195.84 ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	370667	38.00 ug/L	95
62) Tetrachloroethene	9.757	166	329058	39.56 ug/L	99
63) Ethyl methacrylate	9.836	69	258019	36.30 ug/L	98
64) 1,1,2-Trichloroethane	9.903	83	187370	36.91 ug/L	97
65) Dibromochloromethane	10.098	129	249773	38.71 ug/L	99
66) 1,3-Dichloropropane	10.183	76	369607	35.64 ug/L	95
67) 1,2-Dibromoethane	10.360	107	206111	35.82 ug/L	97
68) 2-hexanone	10.487	43	602383	204.90 ug/L	99
69) 1-Chlorohexane	10.798	91	383919	42.07 ug/L	98
70) Ethylbenzene	10.859	91	1479659	41.70 ug/L	99
71) Chlorobenzene	10.865	112	846324	40.89 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.913	131	273351	40.60 ug/L	99
73) m,p-Xylene	10.998	91	2224153	81.94 ug/L	97
74) o-Xylene	11.436	91	1139920	41.58 ug/L	100
75) Styrene	11.485	104	879545	40.20 ug/L	98
76) Bromoform	11.546	173	163705	39.87 ug/L	96
77) Isopropylbenzene	11.741	105	1404421	44.33 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	59956	30.09 ug/L	96
81) n-Propylbenzene	12.160	91	1699811	43.69 ug/L	97
82) Bromobenzene	12.185	156	373403	40.76 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	287439	38.88 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	1290897	43.85 ug/L	100
85) 2-Chlorotoluene	12.349	91	1214874	42.53 ug/L	99
86) trans-1,4-Dichloro-2-B...	12.398	53	57594	30.84 ug/L #	78
87) 1,2,3-Trichloropropane	12.379	110	75386	40.00 ug/L	96
88) Cyclohexanone	12.446	55	28068	236.86 ug/L	96
89) 4-Chlorotoluene	12.519	91	1093865	42.78 ug/L	98
90) a-Methyl Styrene	12.605	118	652430	77.59 ug/L	99

SGS ACCUTEST FA33763

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 08:23:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

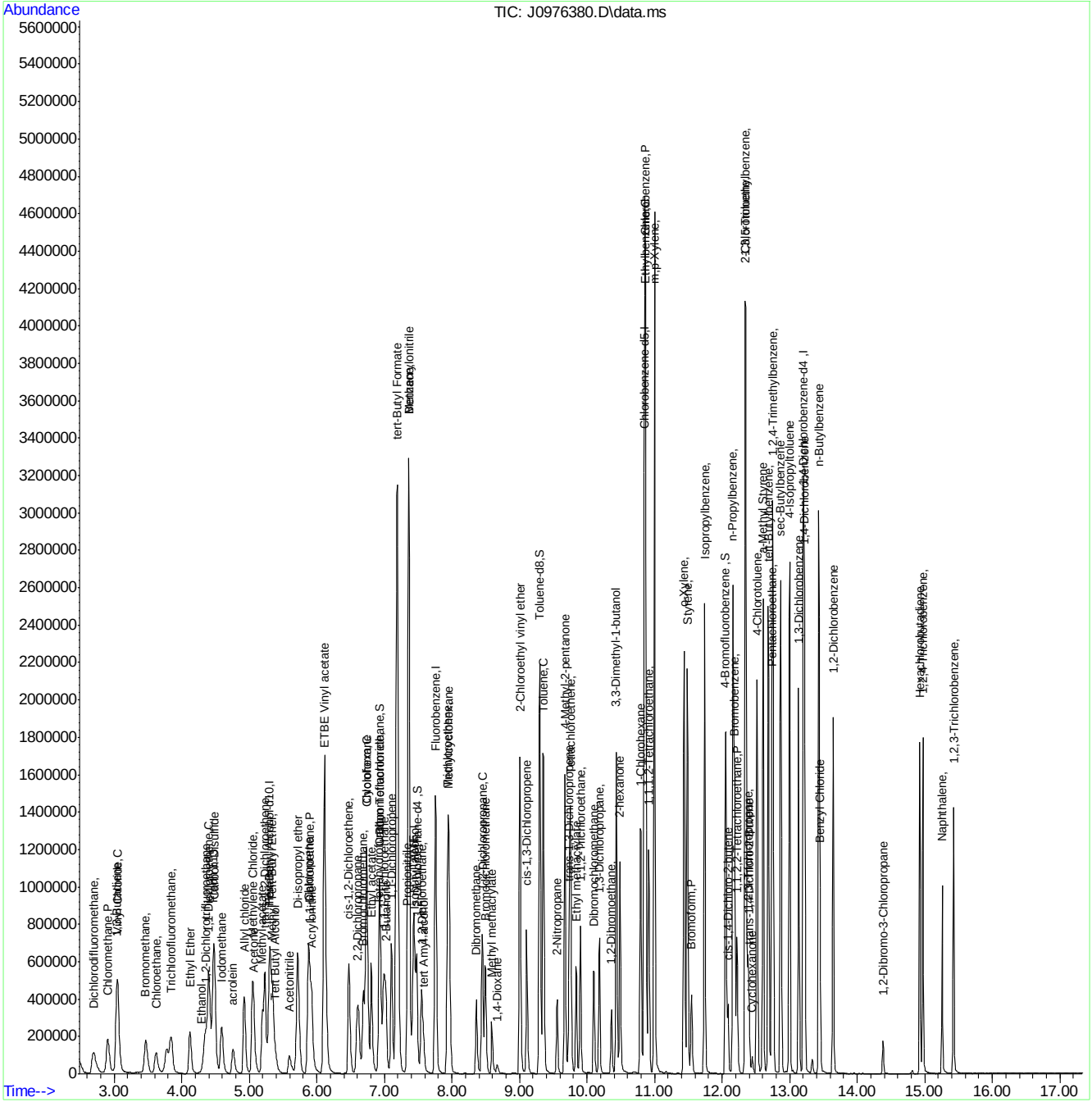
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.684	91	731837	42.54	ug/L	97
92) 1,2,4-Trimethylbenzene	12.751	105	1287430	43.78	ug/L	99
93) Pentachloroethane	12.738	167	198868	35.74	ug/L	95
94) sec-Butylbenzene	12.866	105	1566971	44.08	ug/L	100
95) 4-Isopropyltoluene	13.000	119	1318817	44.22	ug/L	97
96) 1,3-Dichlorobenzene	13.134	146	668885	41.17	ug/L	98
97) 1,4-Dichlorobenzene	13.219	146	681685	39.53	ug/L	98
98) n-Butylbenzene	13.432	92	753726	43.84	ug/L	98
99) Benzyl Chloride	13.450	126	98289	39.03	ug/L #	67
100) 1,2-Dichlorobenzene	13.645	146	605230	38.92	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	36861	32.59	ug/L	93
102) Hexachlorobutadiene	14.928	225	271058	39.02	ug/L	97
103) 1,2,4-Trichlorobenzene	14.971	180	397996	35.06	ug/L	98
104) Naphthalene	15.257	128	568181	29.88	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	338523	33.65	ug/L	98
107) Ethanol	4.294	45	32449m	906.46	ug/L	
108) acrolein	4.757	56	168721	179.58	ug/L	95
109) Tert Butyl Alcohol	5.383	59	150576	386.58	ug/L	94
110) tert Amyl alcohol	7.579	59	114822	420.27	ug/L	96
111) Isobutyl alcohol	7.452	42	106811	716.16	ug/L	91
112) 1,4-Dioxane	8.675	88	32349	1013.79	ug/L	90
113) 3,3-Dimethyl-1-butanol	10.433	57	671520	2006.33	ug/L	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 08:23:35 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA33763

Manual Integration Approval Summary

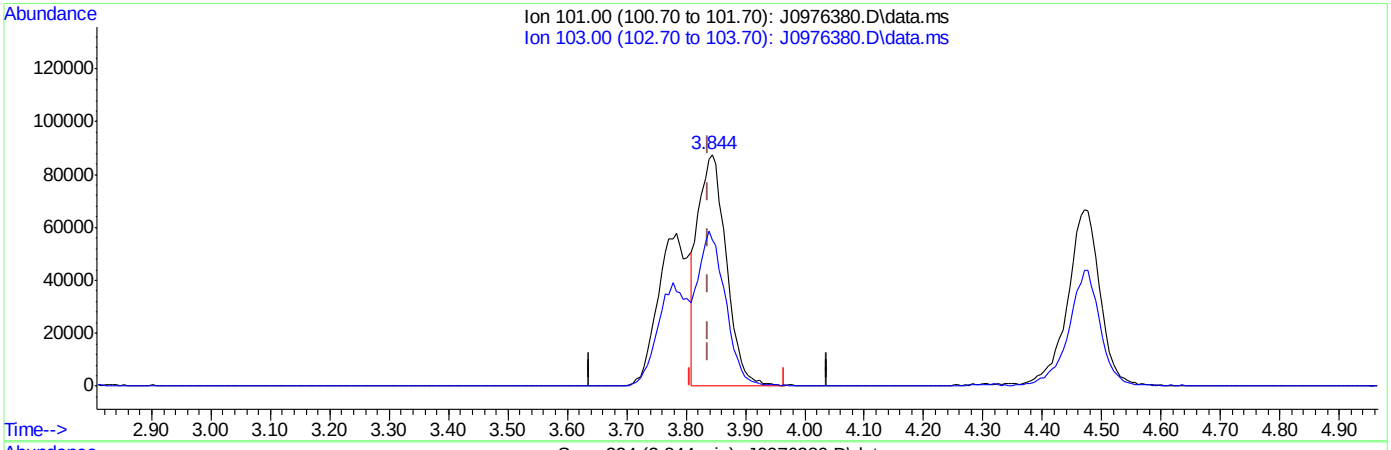
Sample Number:	VJ5289-ECC5237	**Method:**	SW846 8260B
Lab FileID:	J0976380.D	**Analyst approved:**	05/10/16 10:38 Darshna Patel
Injection Time:	05/09/16 19:34	**Supervisor approved:**	05/10/16 11:02 Juan Garcia

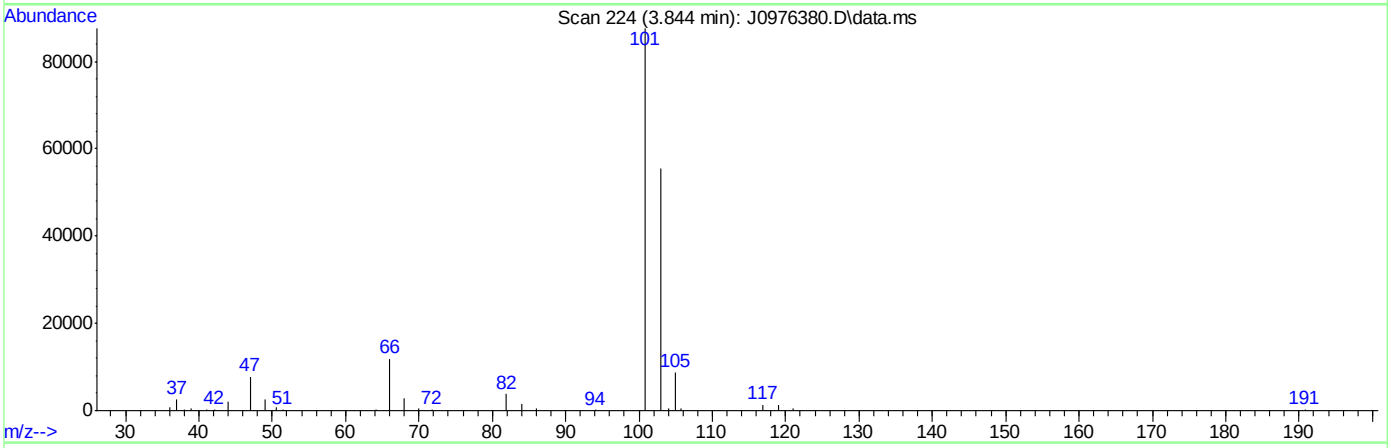
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 07:49:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.844min (+0.006) 26.51ug/L

response 294083

Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.80
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
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Quant Time: May 10 07:49:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
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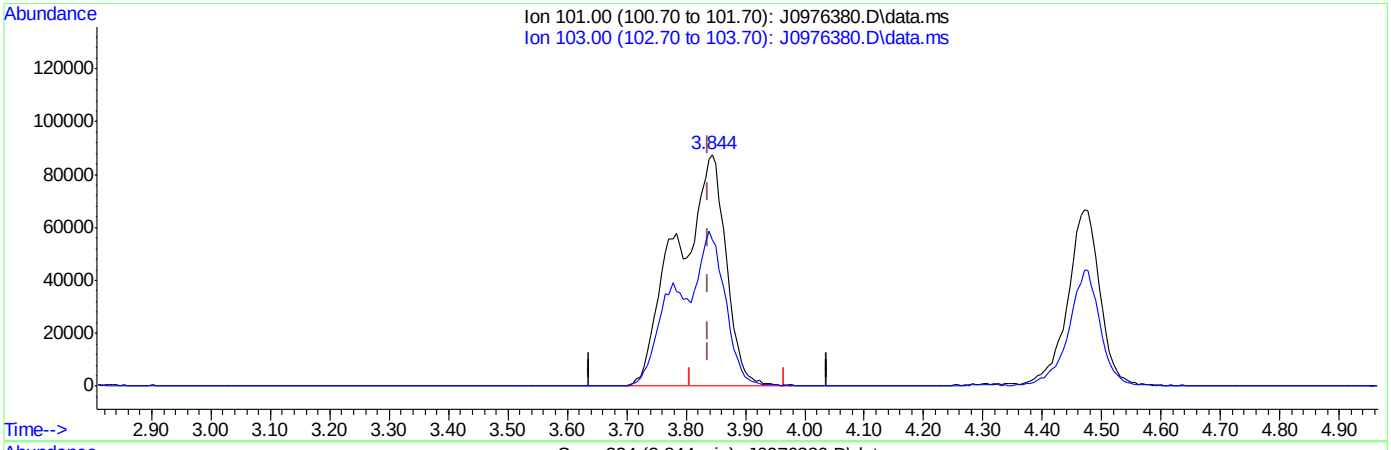
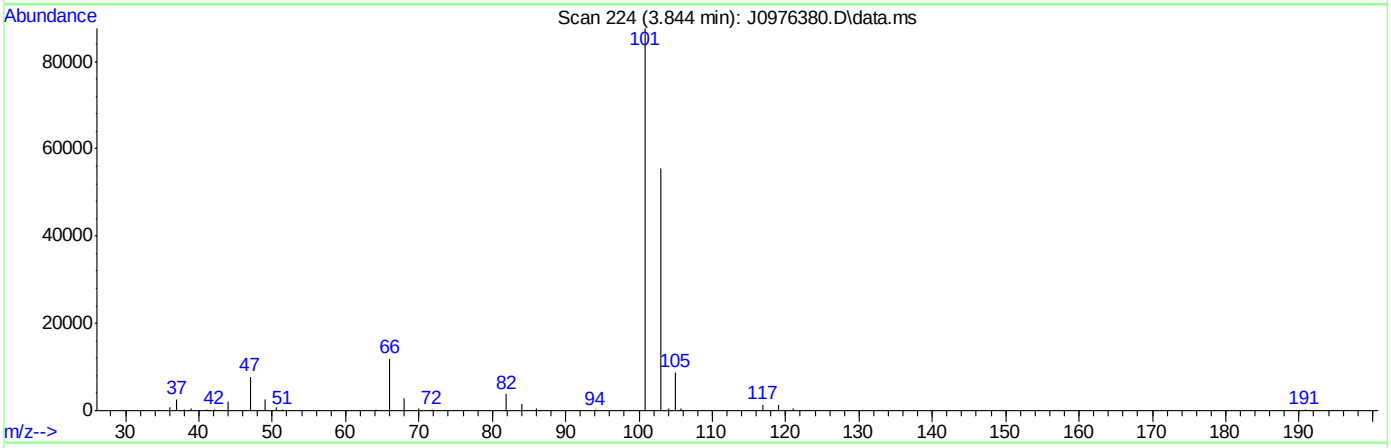




TIC: J0976380.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 45.30ug/L m

response 502563

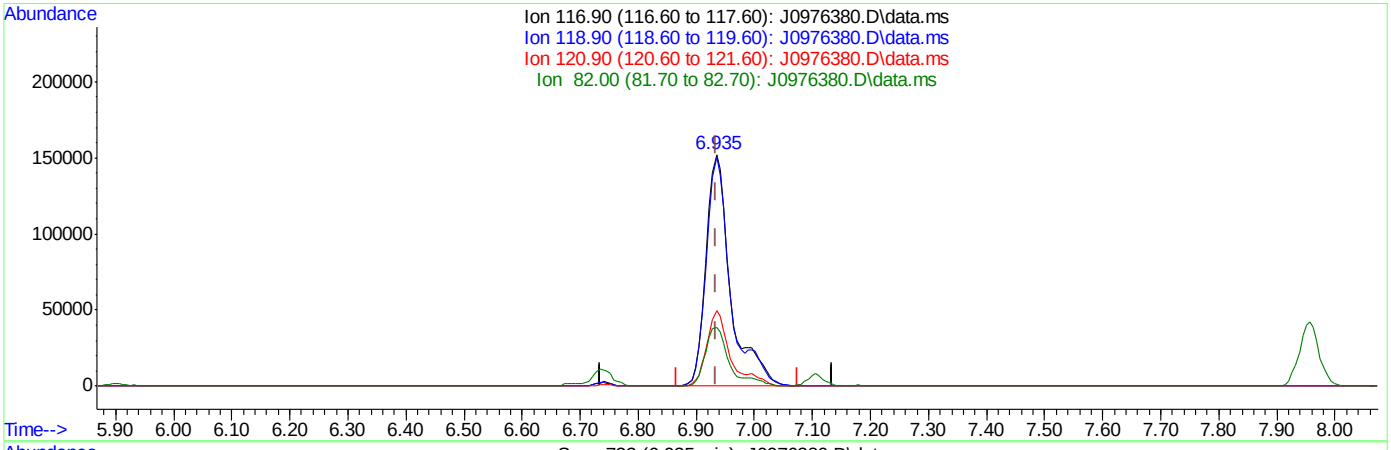
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.24
0.00	0.00	0.00
0.00	0.00	0.00

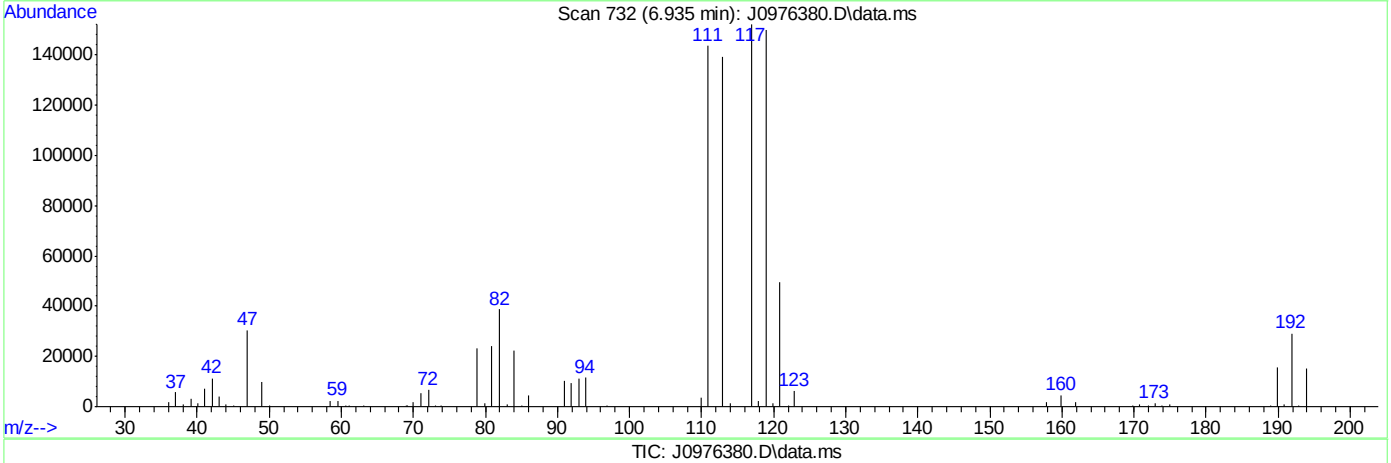
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 07:49:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976380.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.000) 49.71ug/L

response 451315

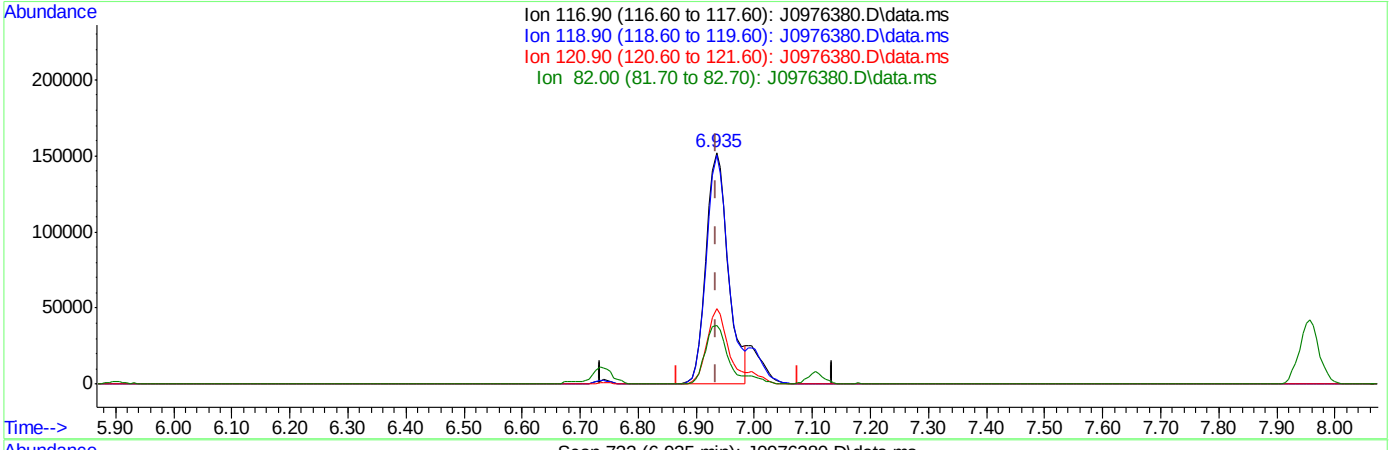
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.65
120.90	31.80	32.59
82.00	25.40	25.43

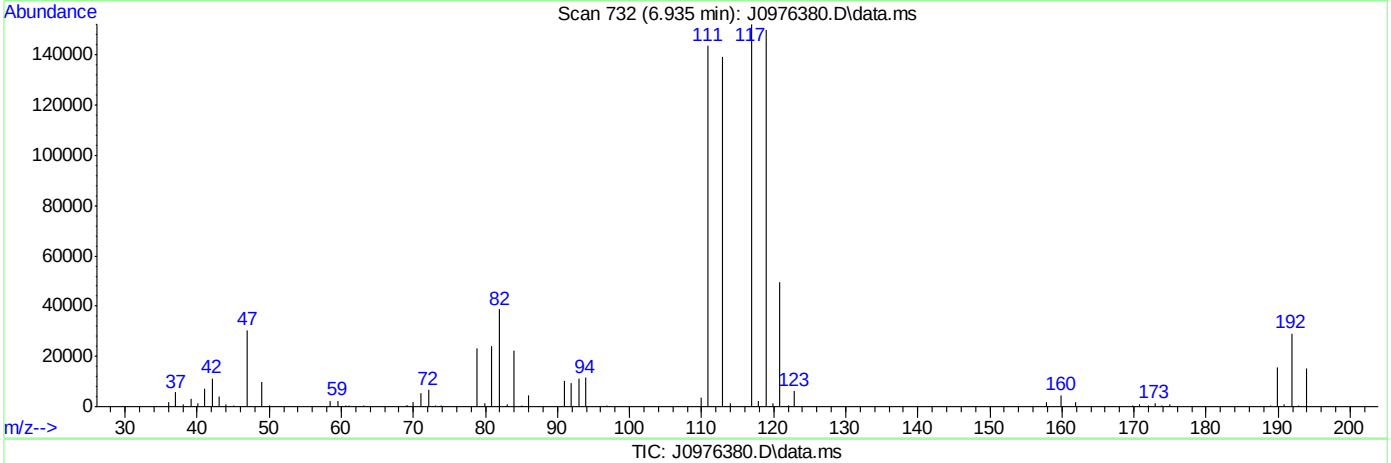
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 07:49:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976380.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.000) 44.38ug/L m

response 402950

Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.65
120.90	31.80	32.59
82.00	25.40	25.43

SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
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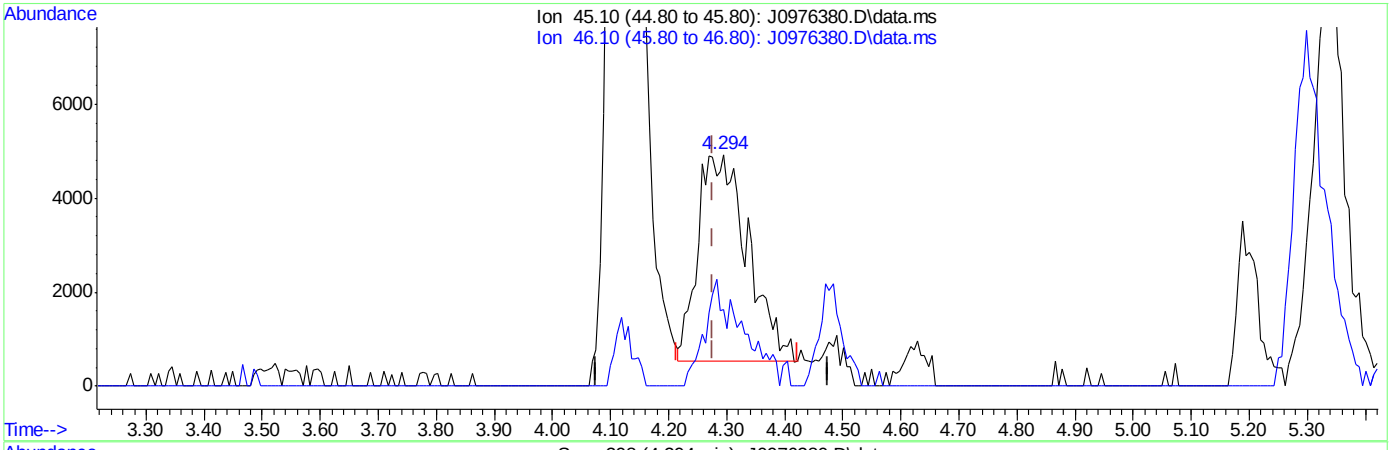
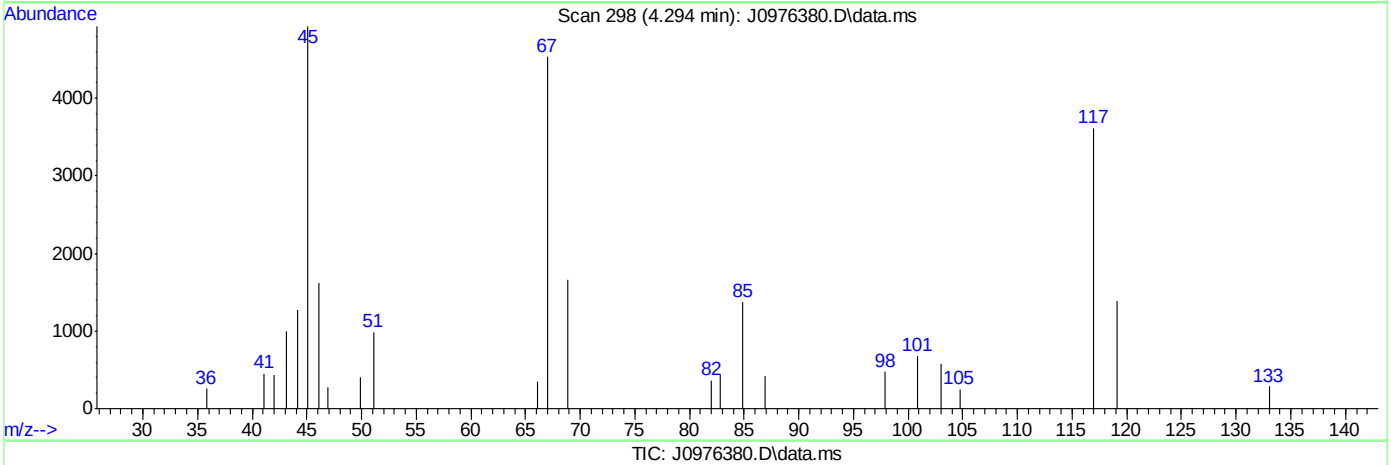
Quant Time: May 10 07:49:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976380.D\data.ms

(107) Ethanol

4.294min (+0.018) 711.43ug/L

response 26075

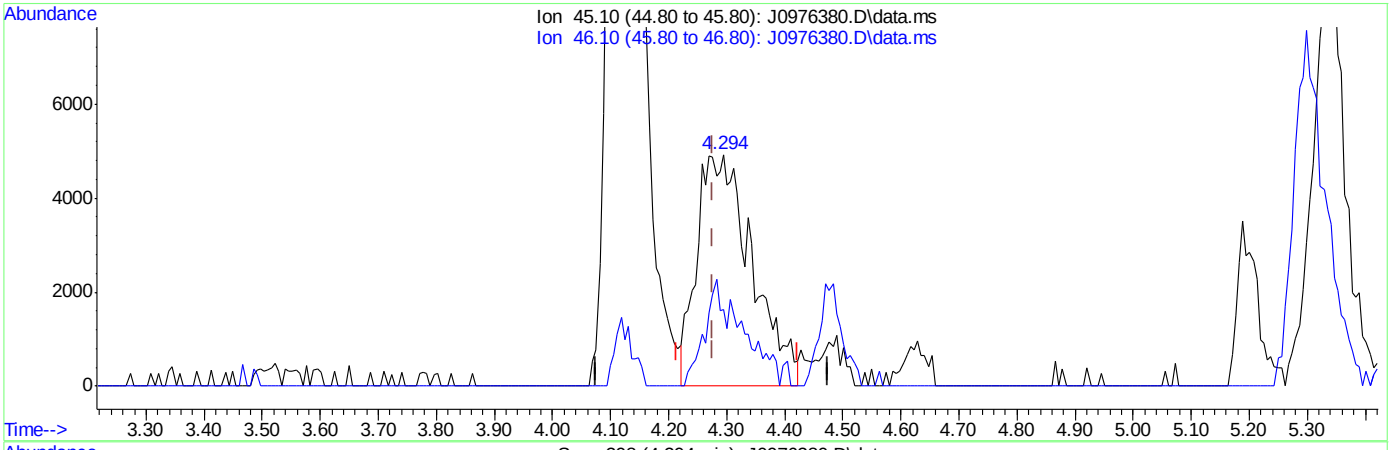
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	37.04
0.00	0.00	0.00
0.00	0.00	0.00

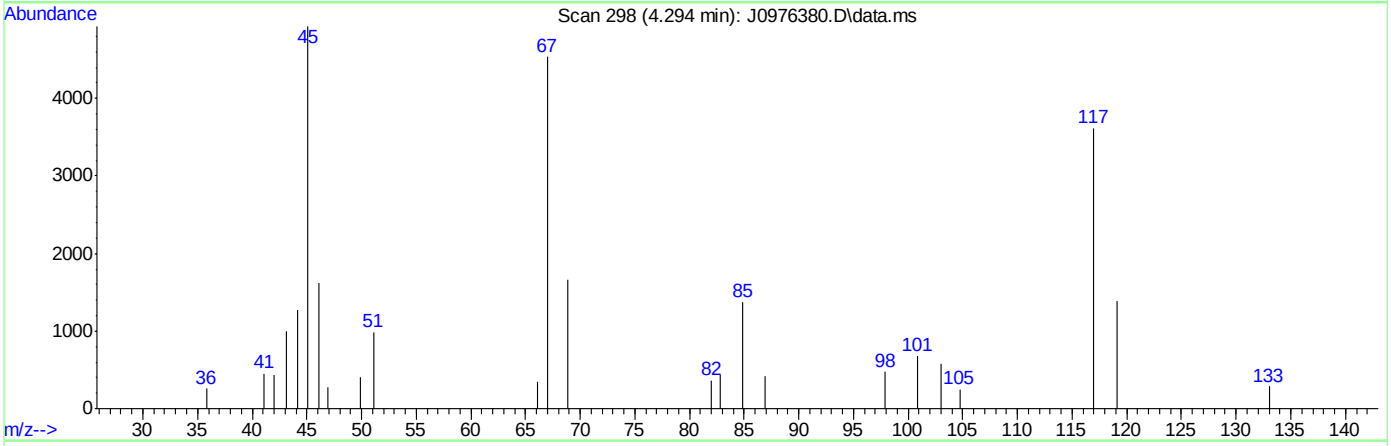
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 07:49:54 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976380.D\data.ms

(107) Ethanol

4.294min (+0.018) 906.46ug/L m

response 32449

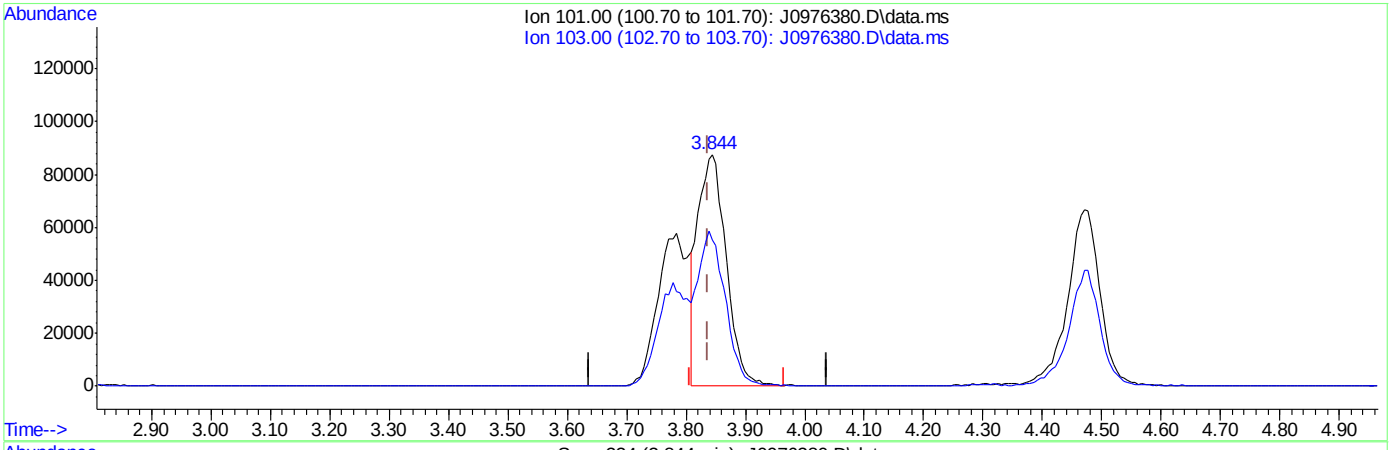
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	32.99
0.00	0.00	0.00
0.00	0.00	0.00

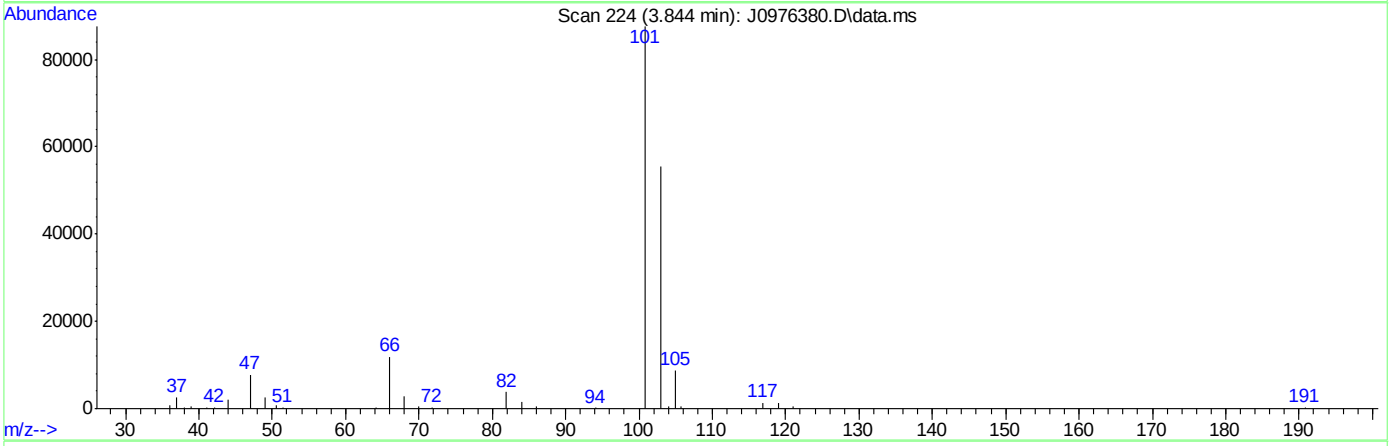
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 08:22:52 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976380.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 26.51ug/L

response 294083

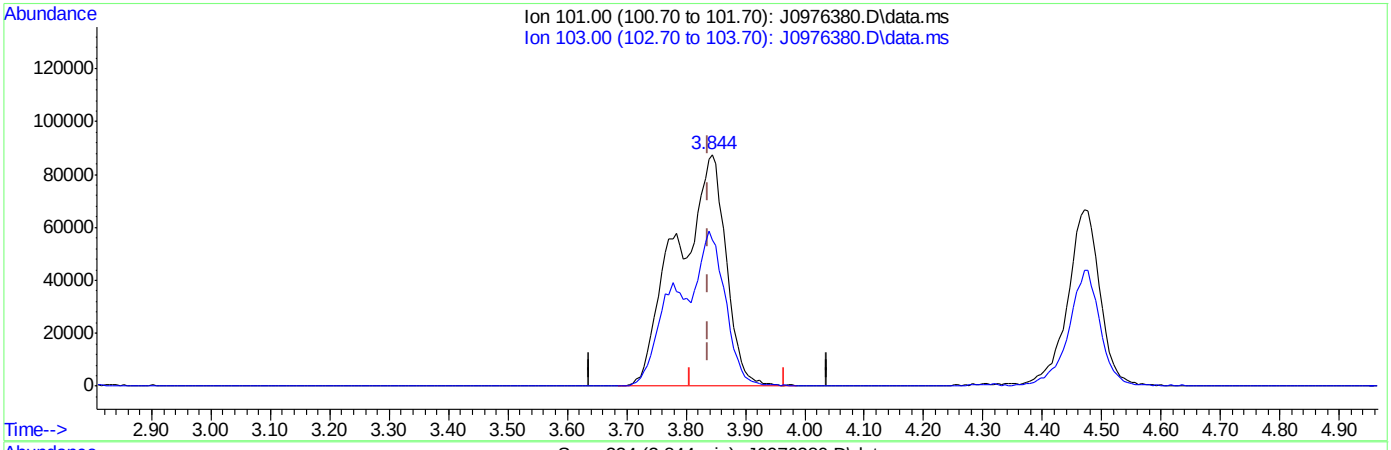
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.80
0.00	0.00	0.00
0.00	0.00	0.00

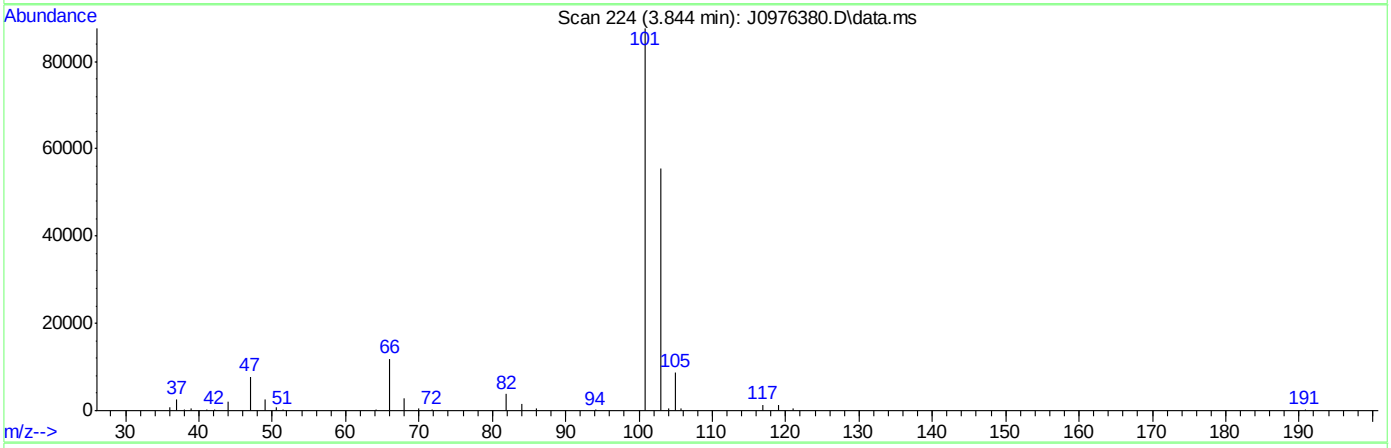
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 08:22:52 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976380.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 45.32ug/L m

response 502761

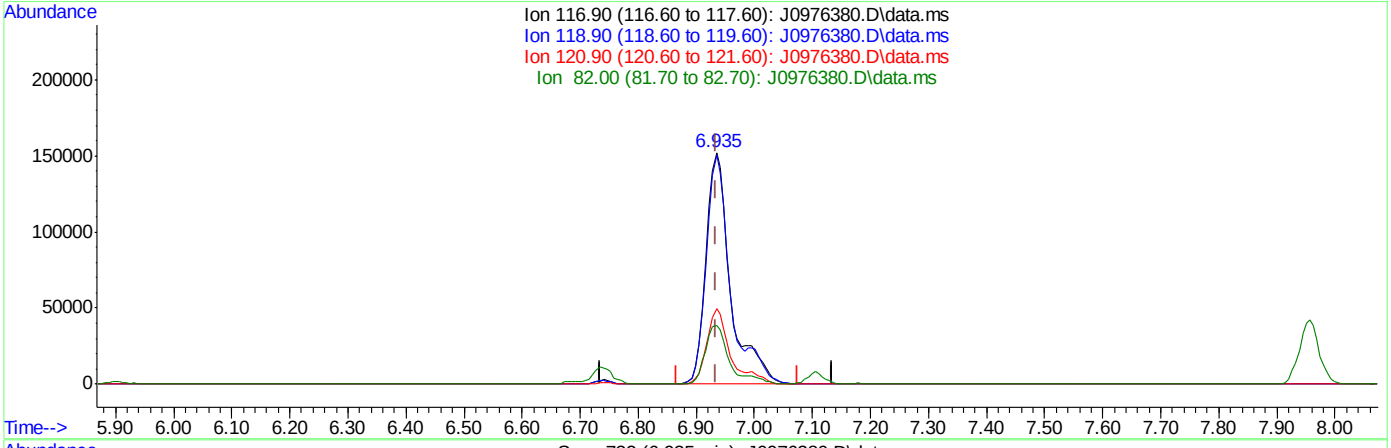
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.24
0.00	0.00	0.00
0.00	0.00	0.00

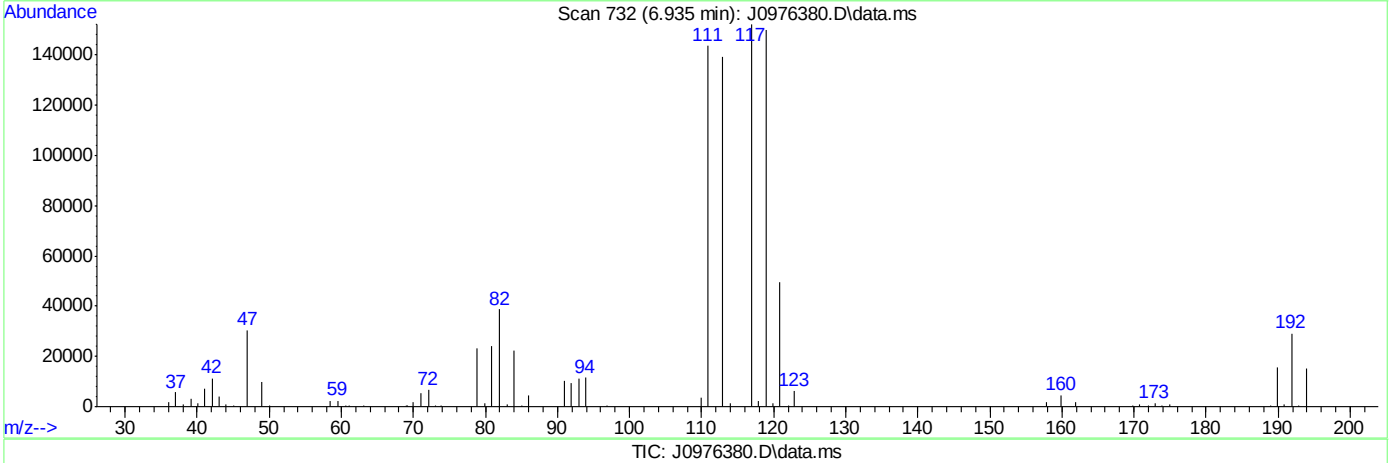
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 08:22:52 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976380.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.000) 49.71ug/L

response 451315

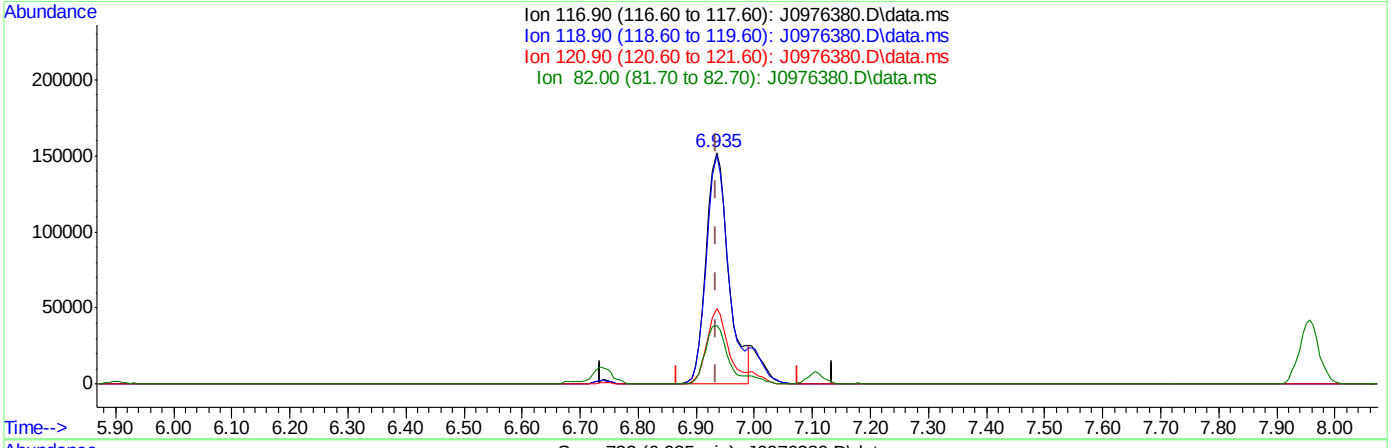
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.65
120.90	31.80	32.59
82.00	25.40	25.43

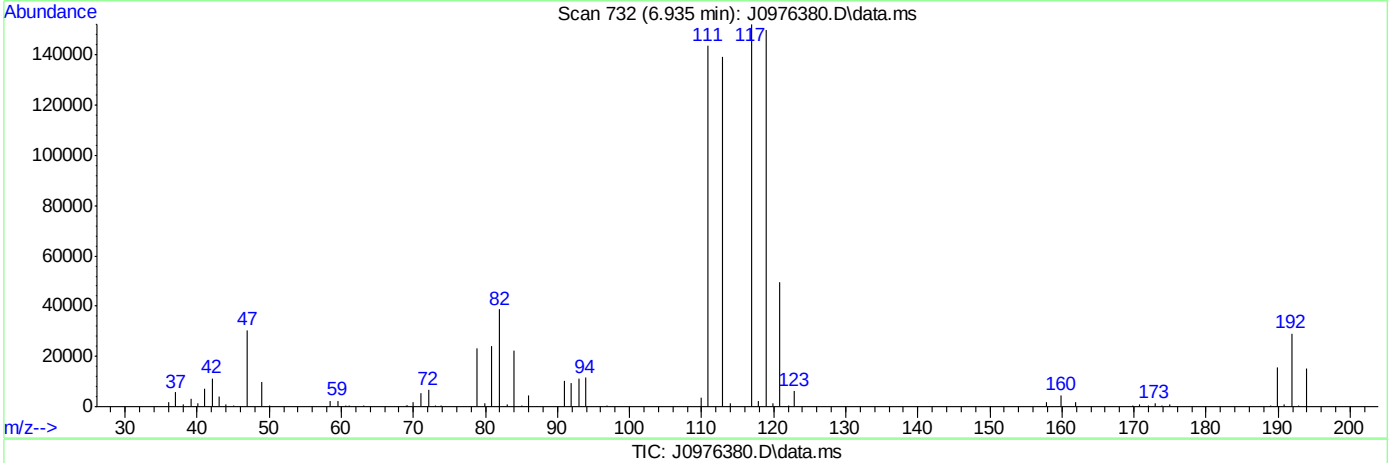
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 08:22:52 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976380.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.000) 45.38ug/L m

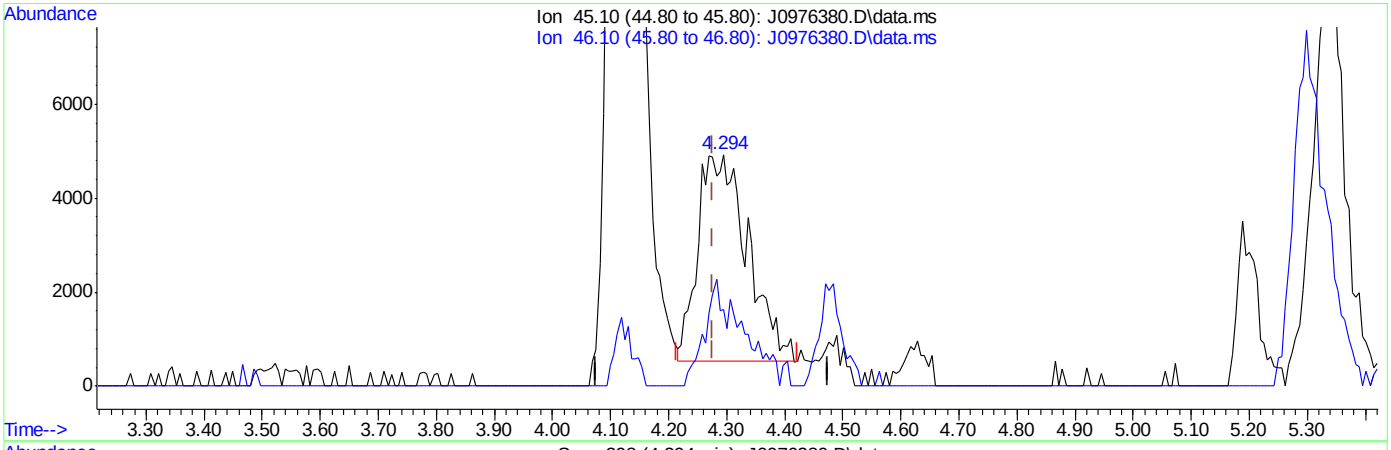
response 412058

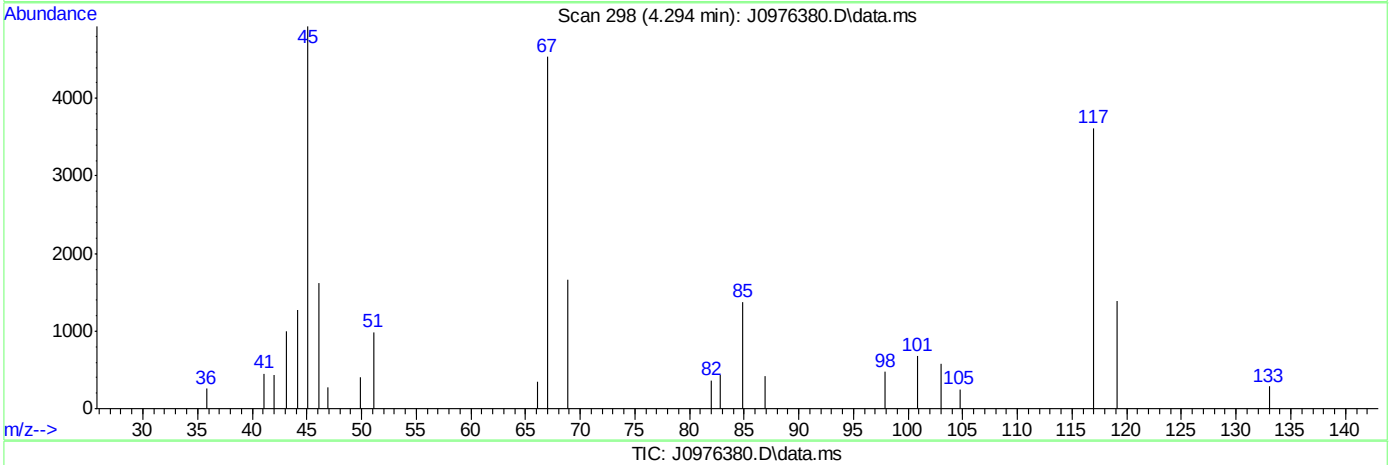
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.65
120.90	31.80	32.59
82.00	25.40	25.43

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 08:22:52 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976380.D\data.ms

(107) Ethanol

4.294min (+0.018) 711.43ug/L

response 26075

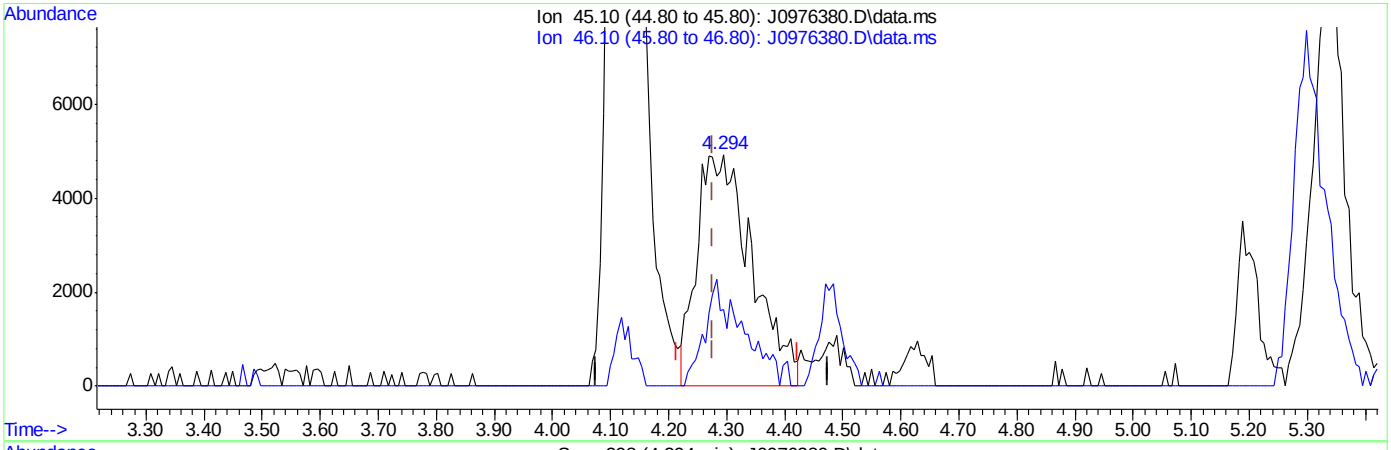
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	37.04
0.00	0.00	0.00
0.00	0.00	0.00

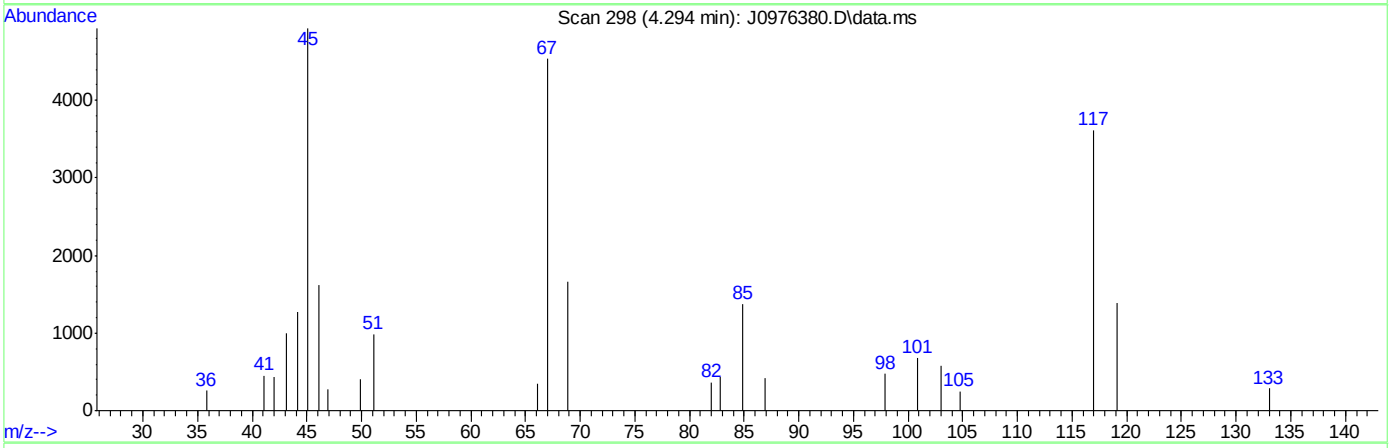
SGS ACCUTEST FA33763

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050916\
Data File : J0976380.D
Acq On : 9 May 2016 7:34 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33818,VJ5289,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 10 08:22:52 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976380.D\data.ms

(107) Ethanol

4.294min (+0.018) 906.46ug/L m

response 32449

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	32.99
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33763

ACCUTEST LABORATORIES SE

DATE:	03-15-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	10.6 psi
ANALYST:	DP

1-12 pH LOT 200814
0-3 pH LOT 204413A

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ031516.m
CALIB. DATE:	03-15-16
EM VOLTAGE:	1553
BFB RESPONSE:	301204.5
RUN ID:	VJ~~5237~~ 5237 DP 03-16-16

STANDARDS

BFB:	V19931 V19964 (New gases) V19953 (Acro)
ICAL/CCV:	V19947 V19895 V1999 V19932 V19955 V19909 V19928 V19929
ISTD/SURR:	V19931
ICV/QC:	V19967 V19924 V19956 V19900
Purge Volume	V19916 V19960 V19853 V19869

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	Cl ?	RR	COMMENTS
J0975140	BLK	N/A	H2O	1	8260		N/A	N/A		
J 41	BLK			1						
J 42	BLK			1						20ul → 50ul Naph ↑
J 43	CC5236-5 A			1						↓ ↓
J 44	-5			1						
J 45	BLK New trap			1						
J 46	BLK			1						
J 47	BLK			1						
J 48	BLK			2						
J 49	BLK / BFB			3						
J 50	ICS237-1			4		PII(6) SP(8)				0.5ul → 50ul
J 51	-2			5		SP(8) OP(37) PII(107)				2.5ul → 50ul
J 52	-3			6		SP(8) OP(37) PII(107)				5ul → 50ul
J 53	-4			7		SP(8) OP(37) PII(107)				12.5ul → 50ul
J 54	-5			8		SP(8) OP(37) PII(107)				20ul → 50ul
J 55	-6			9		SP(8) OP(37) PII(107)				35ul → 50ul
J 56	-7			10		SP(8) OP(37) PII(107)				50ul → 50ul
J 57	BLK			11						
J 58	ICV5237-5	↓	↓	12	↓		↓	↓		25ul → 50ul
J 59	ICV5237-5			13						
J										
J										
J						03-16-16 DP				
J										
J										
J										
J										

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003
Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate
All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.
Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	05-09-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ031516.M
CALIB. DATE:	03-15-16
EM VOLTAGE:	1553V
BFB RESPONSE:	2178063
RUN ID:	VJ 5289 / 5290

STANDARDS

BFB:	V20180
ICAL/CCV:	V20171 V20131 V20164 V20172 V20141 V20173 V20119 V20156
ISTD/SURR:	V20180
ICV/QC:	V20175 V20168 V20165 V20176
Purge Volume	5ml V20167 V20088 V20171 V20107

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J09476358	BLK	N/A	W	1	8260		N/A	N/A		✓
J 59	BLK/BFB			1						Passed Auto
J 60	CCS237-5			1		SP(8) OP(37) PII(107)				20ml→5ml
J 61	BS			1		SP(8) OP(37) PII(107)				12.5ml→40ml
J 62	MB			2		Instrument stopped (Gooze)				ND
J 63	FA33763-1mA	1		1			1	N		ND
J 64	-2mA	2		2			1			✓
J 65	-3mA	1		3			1			ND
J 66	-2ms mA	3		4		SP(8) OP(37) PII(107)	1			12.5ml→40ml
J 67	-2msD mA	3		5		SP(8) OP(37) PII(107)	1			↓
J 68	FA33634-1	2		6			1		1x	✓ Naph
J 69	-2	2		7			1		1x	✓ Naph
J 70	-3	2		8			1		1x	ND Naph
J 71	-4	2		9			1		1x	✓ Naph
J 72	-5	1		10			1		1x	ND Naph
J 73	-6	2		11			1		1x	✓ Naph
J 74	-7	2		12			1		1x	ND Naph
J 75	-8	1		13			1		1x	ND Naph
J 76	FA33716-1, 100x	1		14			1		100x	✓ Naph
J 77	-2	1		15			1		1x	✓ Naph.
J 78	-2ms	2		16		SP(8) OP(37) PII(107)	1			12.5ml→40ml ✓
J 79	-2msD	2		17		SP(8) OP(37) PII(107)	1			~~20ml→5ml~~ 05-09-16 DP
J 80	ECC5237-5			18		SP(8) OP(37) PII(107)				20ml→5ml
J										
J						05-09-16 DP				
J										
J										

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_log.xls NF 06/10

SGS ACCUTEST FA33763

ACCUTEST LABORATORIES SE

DATE:	05-09-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ031516.M
CALIB. DATE:	03-15-16
EM VOLTAGE:	1553V
BFB RESPONSE:	2178063
RUN ID:	VJ 5289 / 5290

STANDARDS

BFB:	V20180
ICAL/CCV:	V20171 V20131 V20164 V20172 V20141 V20173 V20119 V20156
ISTD/SURR:	V20180
ICV/QC:	V20175 V20168 V20165 V20176
Purge Volume	5ml V20167 V20088 V20171 V20107

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0976358	BLK	N/A	W	1	8260		N/A	N/A		✓
J 59	BLK/BFB			1						Passed Auto
J 60	CCS237-5			1		SP(8) OP(37) PII(107)				20ul→5ml
J 61	BS			1		SP(8) OP(37) PII(107)				12.5ul→40ml
J 62	MB			2		Instrument stopped (Gorge)				NO
J 63	FA33763-1MA	1		1			1	N		NO
J 64	-2MA	2		2			1			✓
J 65	-3MA	1		3			1			NO
J 66	-2MS MA	3		4		SP(8) OP(37) PII(107)	1			12.5ul→40ml
J 67	-2MSD MA	3		5		SP(8) OP(37) PII(107)	1			↓
J 68	FA33634-1	2		6			1		1x	✓ Naph
J 69	-2	2		7			1		1x	✓ Naph
J 70	-3	2		8			1		1x	NO Naph
J 71	-4	2		9			1		1x	✓ Naph
J 72	-5	1		10			1		1x	NO Naph
J 73	-6	2		11			1		1x	✓ Naph
J 74	-7	2		12			1		1x	NO Naph
J 75	-8	1		13			1		1x	NO Naph
J 76	FA33716-1/100x	1		14			1		100x	✓ Naph
J 77	-2	1		15			1		1x	✓ Naph
J 78	-2MS	2		16		SP(8) OP(37) PII(107)	1			12.5ul→40ml ✓
J 79	-2MSD	2		17		SP(8) OP(37) PII(107)	1			~~20ul→5ml~~ 05-09-16 DP
J 80	ECC5237-5			18		SP(8) OP(37) PII(107)				20ul→5ml
J										
J						05-09-16 DP				
J										
J										

* For NELAC purposes, Method 8260 includes analytes by SOP MS005 and Method 624 includes analytes by SOP MS003

Matrix: Designate "W" for Water, "S" for Soil, "O" for Oil, "Liq" for Non-aqueous Liquid, and "TCLP" or "SPLP" for Leachate

All strikeouts must be initialed and dated. If correction was not due to a transcription error, then list the reason for correction.

Manual Integration Rationale SOP QA029: **MP** Missed Peak, **OP** Overlapping Peak, **SP** Split Peak, **PDB** Poorly Defined Baseline, **BR** Baseline Ripple, **PII** Poor Instrument Integration

Analyst's Signature: DP

msvoa6_|_log.xls NF 06/10

SGS ACCUTEST FA33763