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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: FA34821

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

Report to:

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Total number of pages in report: 374

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Norm Farmer
Technical Director

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Client Service contact: Heather Wandrey 407-425-6700

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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: FA34821

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA34821-1	06/13/16	12:25	NR	06/17/16	AQ	Ground Water	S-33
FA34821-2	06/13/16	13:05	NR	06/17/16	AQ	Ground Water	S-34
FA34821-3	06/15/16	13:02	NR	06/17/16	AQ	Ground Water	G-1R3
FA34821-4	06/15/16	14:42	NR	06/17/16	AQ	Ground Water	E-1R
FA34821-5	06/15/16	17:16	NR	06/17/16	AQ	Ground Water	D-1R
FA34821-6	06/16/16	12:30	NR	06/17/16	AQ	Ground Water	MW-19
FA34821-7	06/16/16	13:22	NR	06/17/16	AQ	Ground Water	MW-22S
FA34821-8	06/11/16	06:30	NR	06/17/16	AQ	Trip Blank Water	TB061616

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job No:** FA34821

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 6/28/2016 5:08:19 PM

7 Sample(s), 1 Trip Blank(s) were collected on/ between 06/11/2016 and 06/16/2016 and were received at SGS Accutest Southeast (SASE) on 06/17/2016 properly preserved, at 3.4 Deg. C and intact. These Samples received an SASE job number of FA34821. 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:** VJ5346

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA34926-1MS, FA34926-1MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 4-Methyl-2-pentanone (MIBK) are outside control limits. % Recovery was above upper control limit, but samples were ND for 4-Methyl-2-pentanone (MIBK).

Matrix Spike Recovery(s) for 1,1,2-Trichloroethane, 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Tert-Butyl Alcohol, trans-1,2-Dichloroethylene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2-Hexanone, 4-Methyl-2-pentanone (MIBK), Bromoform, Dibromochloromethane, Styrene, Tert-Butyl Alcohol, Tetrahydrofuran are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for 1,1,2-Trichloroethane, Tetrachloroethylene, Tetrahydrofuran are outside control limits for sample FA34926-1MSD. Probable cause is due to sample non-homogeneity.

Matrix: AQ **Batch ID:** VJ5348

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA34926-9MS, FA34926-9MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Methylene Chloride are outside control limits. % Recovery was above upper control limit, but samples were ND for Methylene Chloride;

Matrix Spike Recovery(s) for Dibromochloromethane, Tert-Butyl Alcohol are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 4-Methyl-2-pentanone (MIBK), Tert-Butyl Alcohol, trans-1,2-Dichloroethylene are outside control limits. Probable cause is due to matrix interference.

RPD(s) for MSD for Methyl Bromide are outside control limits for sample FA34926-9MSD. Probable cause is due to sample non-homogeneity.

Sample(s) FA34926-9MS have 1,2-Dichloroethane-D4 surrogates outside control limits.

FA34821-3 for Methyl Chloride: Associated BS recovery outside control limits.

FA34821-3 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA34821-5 for Methyl Chloride: Associated BS recovery outside control limits.

FA34821-5 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA34821-6 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA34821-7 for Methyl Chloride: Associated BS recovery outside control limits.

FA34821-7 for Dichlorodifluoromethane: Associated CCV outside control limits.

FA34821-6 for Methyl Chloride: Associated BS recovery outside control limits.

Matrix: AQ **Batch ID:** VJ5352

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA34821-6MS, FA34821-6MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for Bromoform, Ethylbenzene, m,p-Xylene 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 Bromodichloromethane, Bromoform, Dibromochloromethane, Ethylbenzene, m,p-Xylene are outside control limits. Probable cause is due to matrix interference. % RPD was within control limits in MS/MSD.

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

Narrative prepared by:

_____ Date: June 28, 2016

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA34821-6MS	MSVOA	J0977605.D	Carbon Tetrachloride, Ethyl Alcohol
FA34821-6MSD	MSVOA	J0977606.D	Ethyl Alcohol
FA34926-1MS	MSVOA	J0977483.D	Ethyl Alcohol
FA34926-1MSD	MSVOA	J0977484.D	Carbon Tetrachloride, Ethyl Alcohol
FA34926-9MS	MSVOA	J0977515.D	Ethyl Alcohol
FA34926-9MSD	MSVOA	J0977516.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5340-IC5340	MSVOA	J0977352.D	1,4-Dichlorobenzene, Acetone, Acetonitrile, Acrolein, Dichlorodifluoromethane, Ethyl Ether, Isobutyl Alcohol, Methyl Methacrylate, Trichlorofluoromethane
VJ5340-IC5340	MSVOA	J0977353.D	1,4-Dioxane, Dichlorodifluoromethane, Ethyl Alcohol
VJ5340-IC5340	MSVOA	J0977354.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5340-IC5340	MSVOA	J0977355.D	Ethyl Alcohol
VJ5340-IC5340	MSVOA	J0977357.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5340-IC5340	MSVOA	J0977358.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5340-ICC5340	MSVOA	J0977356.D	Acrolein, Ethyl Alcohol
VJ5340-ICV5340	MSVOA	J0977360.D	Ethyl Alcohol
VJ5345-CC5340	MSVOA	J0977462.D	Carbon Tetrachloride
VJ5346-BS	MSVOA	J0977463.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5347-CC5340	MSVOA	J0977492.D	Ethyl Alcohol
VJ5348-BS	MSVOA	J0977493.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5351-CC5340	MSVOA	J0977583.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5352-BS	MSVOA	J0977584.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane

20 Manual Integrations were found for FA34821

Summary of Hits

Job Number: FA34821
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 06/11/16 thru 06/16/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA34821-1	**S-33**					
Chlorobenzene		0.45 J	1.0	0.20	ug/l	SW846 8260C
Isopropylbenzene		49.4	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		5.8	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		43.8	20	9.1	ug/l	SW846 8260C
FA34821-2	**S-34**					
Methyl Tert Butyl Ether		3.6	1.0	0.20	ug/l	SW846 8260C
Tert-Butyl Alcohol		24.2	20	9.1	ug/l	SW846 8260C
FA34821-3	**G-1R3**					
Benzene		1080	1000	200	ug/l	SW846 8260C
1,1-Dichloroethane		1180	1000	260	ug/l	SW846 8260C
Ethylbenzene		22100	1000	250	ug/l	SW846 8260C
Isopropylbenzene		43.9 J	100	33	ug/l	SW846 8260C
Toluene		68.0 J	100	20	ug/l	SW846 8260C
m,p-Xylene		65300	2000	300	ug/l	SW846 8260C
o-Xylene		4000	1000	260	ug/l	SW846 8260C
FA34821-4	**E-1R**					
Benzene		0.28 J	1.0	0.20	ug/l	SW846 8260C
Ethylbenzene		11.7	1.0	0.25	ug/l	SW846 8260C
Isopropylbenzene		0.97 J	1.0	0.33	ug/l	SW846 8260C
Methyl Tert Butyl Ether		4.5	1.0	0.20	ug/l	SW846 8260C
m,p-Xylene		37.6	2.0	0.30	ug/l	SW846 8260C
o-Xylene		1.9	1.0	0.26	ug/l	SW846 8260C
FA34821-5	**D-1R**					
Methyl Tert Butyl Ether		3.3	1.0	0.20	ug/l	SW846 8260C
FA34821-6	**MW-19**					
Ethylbenzene		6460	250	63	ug/l	SW846 8260C
Isopropylbenzene		16.0 J	50	16	ug/l	SW846 8260C
m,p-Xylene		18800	500	75	ug/l	SW846 8260C
o-Xylene		1050	250	66	ug/l	SW846 8260C
FA34821-7	**MW-22S**					

No hits reported in this sample.

Summary of Hits

Job Number: FA34821
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 06/11/16 thru 06/16/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA34821-8	**TB061616**					

No hits reported in this sample.

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	S-33		
Lab Sample ID:	FA34821-1	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	J0977468.D	1	06/23/16	DP	n/a	n/a	VJ5346
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	ND	1.0	0.20	ug/l	
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	0.45	1.0	0.20	ug/l	J
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	49.4	1.0	0.33	ug/l	

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

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

Report of Analysis

Client Sample ID:	S-33		
Lab Sample ID:	FA34821-1	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	5.8	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	43.8	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	111%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	S-34		
Lab Sample ID:	FA34821-2	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	J0977469.D	1	06/23/16	DP	n/a	n/a	VJ5346
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

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

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

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

Report of Analysis

Client Sample ID:	S-34		
Lab Sample ID:	FA34821-2	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	1.0	0.28	ug/l	
79-20-9	Methyl Acetate	ND	20	5.0	ug/l	
74-83-9	Methyl Bromide	ND	2.0	0.50	ug/l	
74-87-3	Methyl Chloride	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.6	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	24.2	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	120%		79-125%
2037-26-5	Toluene-D8	106%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

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

SGS Accutest

Report of Analysis

Client Sample ID:	G-1R3		
Lab Sample ID:	FA34821-3	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	J0977509.D	100	06/24/16	DP	n/a	n/a	VJ5348
Run #2	J0977587.D	1000	06/27/16	DP	n/a	n/a	VJ5352

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

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	2500	1000	ug/l	
71-43-2	Benzene	1080 [a]	1000	200	ug/l	
100-44-7	Benzyl Chloride	ND	200	44	ug/l	
74-97-5	Bromochloromethane	ND	100	42	ug/l	
75-27-4	Bromodichloromethane	ND	100	24	ug/l	
75-25-2	Bromoform	ND	100	46	ug/l	
78-93-3	2-Butanone (MEK)	ND	500	260	ug/l	
75-15-0	Carbon Disulfide	ND	200	23	ug/l	
56-23-5	Carbon Tetrachloride	ND	100	30	ug/l	
108-90-7	Chlorobenzene	ND	100	20	ug/l	
75-00-3	Chloroethane	ND	200	63	ug/l	
67-66-3	Chloroform	ND	100	30	ug/l	
110-82-7	Cyclohexane	ND	100	26	ug/l	
124-48-1	Dibromochloromethane	ND	100	26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	500	81	ug/l	
106-93-4	1,2-Dibromoethane	ND	200	33	ug/l	
75-71-8	Dichlorodifluoromethane [b]	ND	200	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	39	ug/l	
75-34-3	1,1-Dichloroethane	1180 [a]	1000	260	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	100	22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	100	31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	33	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	25	ug/l	
100-41-4	Ethylbenzene	22100 [a]	1000	250	ug/l	
76-13-1	Freon 113	ND	100	32	ug/l	
591-78-6	2-Hexanone	ND	1000	200	ug/l	
98-82-8	Isopropylbenzene	43.9	100	33	ug/l	J

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

Report of Analysis

Client Sample ID:	G-1R3		
Lab Sample ID:	FA34821-3	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	100	28	ug/l	
79-20-9	Methyl Acetate	ND	2000	500	ug/l	
74-83-9	Methyl Bromide	ND	200	50	ug/l	
74-87-3	Methyl Chloride [c]	ND	200	50	ug/l	
108-87-2	Methylcyclohexane	ND	100	23	ug/l	
75-09-2	Methylene Chloride	ND	500	200	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	500	140	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	20	ug/l	
100-42-5	Styrene	ND	100	24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	2000	600	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	2000	910	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	33	ug/l	
127-18-4	Tetrachloroethylene	ND	100	30	ug/l	
109-99-9	Tetrahydrofuran	ND	500	140	ug/l	
108-88-3	Toluene	68.0	100	20	ug/l	J
87-61-6	1,2,3-Trichlorobenzene	ND	200	51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	200	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	37	ug/l	
79-01-6	Trichloroethylene	ND	100	27	ug/l	
75-69-4	Trichlorofluoromethane	ND	200	50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	100	20	ug/l	
75-01-4	Vinyl Chloride	ND	100	31	ug/l	
	m,p-Xylene	65300 [a]	2000	300	ug/l	
95-47-6	o-Xylene	4000 [a]	1000	260	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%	97%	83-118%
17060-07-0	1,2-Dichloroethane-D4	116%	87%	79-125%
2037-26-5	Toluene-D8	102%	101%	85-112%
460-00-4	4-Bromofluorobenzene	84%	108%	83-118%

(a) Result is from Run# 2
(b) Associated CCV outside control limits.
(c) 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:	E-1R		
Lab Sample ID:	FA34821-4	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	J0977586.D	1	06/27/16	DP	n/a	n/a	VJ5352
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	25	10	ug/l	
71-43-2	Benzene	0.28	1.0	0.20	ug/l	J
100-44-7	Benzyl Chloride	ND	2.0	0.44	ug/l	
74-97-5	Bromochloromethane	ND	1.0	0.42	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.24	ug/l	
75-25-2	Bromoform	ND	1.0	0.46	ug/l	
78-93-3	2-Butanone (MEK)	ND	5.0	2.6	ug/l	
75-15-0	Carbon Disulfide	ND	2.0	0.23	ug/l	
56-23-5	Carbon Tetrachloride	ND	1.0	0.30	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.20	ug/l	
75-00-3	Chloroethane	ND	2.0	0.63	ug/l	
67-66-3	Chloroform	ND	1.0	0.30	ug/l	
110-82-7	Cyclohexane	ND	1.0	0.26	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.26	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	5.0	0.81	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.33	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	11.7	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	0.97	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:	E-1R		
Lab Sample ID:	FA34821-4	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	4.5	1.0	0.20	ug/l	
100-42-5	Styrene	ND	1.0	0.24	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	
75-65-0	Tert-Butyl Alcohol	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	37.6	2.0	0.30	ug/l	
95-47-6	o-Xylene	1.9	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		83-118%
17060-07-0	1,2-Dichloroethane-D4	84%		79-125%
2037-26-5	Toluene-D8	107%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

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

SGS Accutest

Report of Analysis

Client Sample ID:	D-1R		
Lab Sample ID:	FA34821-5	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	J0977511.D	1	06/24/16	DP	n/a	n/a	VJ5348
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 [a]	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	

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

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

Report of Analysis

Client Sample ID:	D-1R		
Lab Sample ID:	FA34821-5	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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 [b]	ND	2.0	0.50	ug/l	
108-87-2	Methylcyclohexane	ND	1.0	0.23	ug/l	
75-09-2	Methylene Chloride	ND	5.0	2.0	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	5.0	1.4	ug/l	
1634-04-4	Methyl Tert Butyl Ether	3.3	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	ND	20	9.1	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.33	ug/l	
127-18-4	Tetrachloroethylene	ND	1.0	0.30	ug/l	
109-99-9	Tetrahydrofuran	ND	5.0	1.4	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	2.0	0.51	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	2.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.20	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.37	ug/l	
79-01-6	Trichloroethylene	ND	1.0	0.27	ug/l	
75-69-4	Trichlorofluoromethane	ND	2.0	0.50	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	0.20	ug/l	
75-01-4	Vinyl Chloride	ND	1.0	0.31	ug/l	
	m,p-Xylene	ND	2.0	0.30	ug/l	
95-47-6	o-Xylene	ND	1.0	0.26	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	118%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	101%		83-118%

(a) Associated CCV outside control limits.
(b) 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:	MW-19		
Lab Sample ID:	FA34821-6	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	J0977512.D	50	06/24/16	DP	n/a	n/a	VJ5348
Run #2	J0977588.D	250	06/27/16	DP	n/a	n/a	VJ5352

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

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1300	500	ug/l	
71-43-2	Benzene	ND	50	10	ug/l	
100-44-7	Benzyl Chloride	ND	100	22	ug/l	
74-97-5	Bromochloromethane	ND	50	21	ug/l	
75-27-4	Bromodichloromethane	ND	50	12	ug/l	
75-25-2	Bromoform	ND	50	23	ug/l	
78-93-3	2-Butanone (MEK)	ND	250	130	ug/l	
75-15-0	Carbon Disulfide	ND	100	12	ug/l	
56-23-5	Carbon Tetrachloride	ND	50	15	ug/l	
108-90-7	Chlorobenzene	ND	50	10	ug/l	
75-00-3	Chloroethane	ND	100	31	ug/l	
67-66-3	Chloroform	ND	50	15	ug/l	
110-82-7	Cyclohexane	ND	50	13	ug/l	
124-48-1	Dibromochloromethane	ND	50	13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	250	41	ug/l	
106-93-4	1,2-Dibromoethane	ND	100	17	ug/l	
75-71-8	Dichlorodifluoromethane [a]	ND	100	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	13	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	12	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	20	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	13	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	14	ug/l	
75-35-4	1,1-Dichloroethylene	ND	50	11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	50	16	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	50	17	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	17	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	13	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	12	ug/l	
100-41-4	Ethylbenzene	6460 [b]	250	63	ug/l	
76-13-1	Freon 113	ND	50	16	ug/l	
591-78-6	2-Hexanone	ND	500	100	ug/l	
98-82-8	Isopropylbenzene	16.0	50	16	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:	MW-19		
Lab Sample ID:	FA34821-6	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	50	14	ug/l	
79-20-9	Methyl Acetate	ND	1000	250	ug/l	
74-83-9	Methyl Bromide	ND	100	25	ug/l	
74-87-3	Methyl Chloride [c]	ND	100	25	ug/l	
108-87-2	Methylcyclohexane	ND	50	12	ug/l	
75-09-2	Methylene Chloride	ND	250	100	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	250	70	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	10	ug/l	
100-42-5	Styrene	ND	50	12	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	1000	300	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	1000	450	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	16	ug/l	
127-18-4	Tetrachloroethylene	ND	50	15	ug/l	
109-99-9	Tetrahydrofuran	ND	250	71	ug/l	
108-88-3	Toluene	ND	50	10	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	100	26	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	100	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	18	ug/l	
79-01-6	Trichloroethylene	ND	50	14	ug/l	
75-69-4	Trichlorofluoromethane	ND	100	25	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	50	10	ug/l	
75-01-4	Vinyl Chloride	ND	50	16	ug/l	
	m,p-Xylene	18800 [b]	500	75	ug/l	
95-47-6	o-Xylene	1050 [b]	250	66	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	119%	86%	79-125%
2037-26-5	Toluene-D8	104%	108%	85-112%
460-00-4	4-Bromofluorobenzene	104%	116%	83-118%

(a) Associated CCV outside control limits.
(b) Result is from Run# 2
(c) 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:	MW-22S		
Lab Sample ID:	FA34821-7	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	J0977513.D	1	06/24/16	DP	n/a	n/a	VJ5348
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 [a]	ND	2.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.27	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.24	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.39	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.26	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.28	ug/l	
75-35-4	1,1-Dichloroethylene	ND	1.0	0.22	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	0.31	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	1.0	0.33	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.34	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.25	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.25	ug/l	
76-13-1	Freon 113	ND	1.0	0.32	ug/l	
591-78-6	2-Hexanone	ND	10	2.0	ug/l	
98-82-8	Isopropylbenzene	ND	1.0	0.33	ug/l	

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

Report of Analysis

Client Sample ID:	MW-22S		
Lab Sample ID:	FA34821-7	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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 [b]	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	121%		79-125%
2037-26-5	Toluene-D8	108%		85-112%
460-00-4	4-Bromofluorobenzene	100%		83-118%

(a) Associated CCV outside control limits.
(b) 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:	TB061616		
Lab Sample ID:	FA34821-8	**Date Sampled:**	06/11/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/17/16
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	J0977470.D	1	06/23/16	DP	n/a	n/a	VJ5346
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

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

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

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

Report of Analysis

Client Sample ID:	TB061616		
Lab Sample ID:	FA34821-8	**Date Sampled:**	06/11/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/17/16
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	106%		83-118%
17060-07-0	1,2-Dichloroethane-D4	115%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	98%		83-118%

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST

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

FA34821 PAGE 1 OF 1
80996056286 9

Bottle Order Control #
SGS Accutest Quote #
SGS Accutest Job # Get from NJ

Client / Reporting Information

Company Name: Anderson Mulholland
Street Address: 2700 Winchester
City State Zip: Purchase NY
Project Contact: Terry Taylor E-mail:
Phone # 914-251-0400 Fax #:
Sampler(s) Name(s): Nestor M. Rivera Phone #:

Project Information

Project Name: BMS 2Q16 Groundwater Sampling
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	S-33		6/13/16	1225	NMR	GW	3	3								X	
2	S-34		6/13/16	1305	NMR	GW	3	3								X	
3	G-1R3		6/15/16	1302	NMR	GW	3	3								X	
4	E-1R		6/15/16	1442	NMR	GW	3	3								X	
5	D-1R		6/15/16	1716	NMR	GW	3	3								X	
6	MW-19		6/16/16	1230	NMR	GW	3	3								X	
7	MW-22S		6/16/16	1322	NMR	GW	3	3								X	
8	TB 061616		4/11/16	0630		TB	2	2								X	

Turnaround Time (Business days)

- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] 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, ~~t-Amyl~~ Tert 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 Nestor M. Rivera	6/16/16 1400	1 Fed EX	2 FX		2 6/17/16 945
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By:
Relinquished by: 5	Date Time:	Received By: 5	Custody Seals# 356AR2 [ ] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [x] Cooler Temp 3.4

FA34821: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA34821 CLIENT: Anderson Mulholland PROJECT: BMS 2016

DATE/TIME RECEIVED: 6/17/16 945 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 8099 6056 2869

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: 3.4
- [ ] CORRECTED TEMPS: 3.4 (USED FOR LIMS)

SAMPLE INFORMATION

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

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

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

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 6/17/16 REVIEWER SIGNATURE/DATE JC 6-17-16

NF 11/15 RECEIPTLOG040416.xls

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FA34821: Chain of Custody

Page 2 of 3

FedEx Express International Air Waybill

Origin Copy

1 From
Date 06 16 16 Sender's FedEx Account Number
Sender's Name Nestor Rivera Phone 787-306-2409
Company Anderson Mulholland Assoc. Inc
Address BMS In care of
Address Rd # 3, Km 77.5
City Humacao State Province PR
Country USA ZIP Postal Code 00791

2 To
Recipient's Name Sample Receiving Phone 407-425-6700
Company SGS Accutest Florida
Address 4405 Vineland Rd Dept./Floor
Address
City Orlando State Province FL
Country USA ZIP Postal Code 32811
Recipient's Tax ID Number for Customs Purposes
e.g., GST/REC/VAT/IN/EIN/ABN, or as locally required:

3 Shipment Information
For EU Only: Tick here if goods are not in free circulation and provide C.I.
Total Packages (Shipper's Load and Count/SLAC) 1 Total Weight 13 lb kg DIM 15 / 9 / 15 in cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Groundwater Samples		USA	0

Has EEI been filed in AES? For U.S. Export Only: Check One
No EEI required, value $2,500 or less per Sch. B Number, no license required (NLR), not subject to ITAR.
No EEI required, enter exemption number:
Yes – Enter AES proof of filing citation:
If other than NLR, enter License Exception:
Total Declared Value for Carriage
Total Value for Customs (Specify Currency) $0

4 Express Package Service
Packages up to 150 lbs./68 kg. For packages over 150 lbs. (68 kg), use the FedEx Expanded Service Intl. Air Waybill.
Not all services and options are available to all destinations. Dangerous goods cannot be shipped using this 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.

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 Cooler FedEx 10kg Box* FedEx 25kg Box*

6 Special Handling
1 HOLD at FedEx Location 3 SATURDAY Delivery Available to select locations for FedEx Intl. Priority only.

7 Payment
Complete payment options for both transportation charges and duties and taxes.
Bill transportation charges to:
Enter FedEx Acct. No. or Credit Card No. below.
1 Sender Acct. No. in Section 1 will be billed. 2 Recipient 3 Third Party 4 Credit Card 5 Cash Check/Cheque
Total Transportation
FedEx Acct. No. 1147-5950-3
Credit Card Exp. Date Specify Currency
Bill duties and taxes to:
ALL shipments may be subject to Customs charges, which FedEx does not estimate prior to clearance.
Enter FedEx Acct. No. below.
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 2Q 6W

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: Nestor Rivera
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:

568
PART 150410 Rev. Date 11/08 ©1994–2008 FedEx PRINTED IN U.S.A. RRDA
Form ID No.

FedEx Tracking Number 8099 6056 2869 0402

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
SJUWC	TIXAXHTIXA		Total Volume (cm)

Received At: 1 Rep. Stop 2 On-Call Stop 3 Drop Box 4 World Service Center 5 Station
Forms Attached: CI CO
Base Charges Declared Val. Chrg. Other ODA/OPA Credit Card Auth.
FedEx Emp.# 116555 Audit Emp.# Date 06/16 Time 1139 Del. Courier Emp.# Date Time
Non Negotiable International Air Waybill • ©1994-2008 FedEx

PACKAGE LABEL
COMMERCIAL INVOICE LABEL
DELIVERY RECORD LABEL
DELIVERY REATTEMPT LABEL

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FA34821: Chain of Custody
Page 3 of 3

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5346-MB	J0977464.D	1	06/23/16	DP	n/a	n/a	VJ5346

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

FA34821-1, FA34821-2, FA34821-8

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: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5346-MB	J0977464.D	1	06/23/16	DP	n/a	n/a	VJ5346

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

FA34821-1, FA34821-2, FA34821-8

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	96%	83-118%
17060-07-0	1,2-Dichloroethane-D4	110%	79-125%
2037-26-5	Toluene-D8	94%	85-112%
460-00-4	4-Bromofluorobenzene	113%	83-118%

Method Blank Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5348-MB	J0977494.D	1	06/24/16	DP	n/a	n/a	VJ5348

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

FA34821-3, FA34821-5, FA34821-6, FA34821-7

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: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5348-MB	J0977494.D	1	06/24/16	DP	n/a	n/a	VJ5348

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

FA34821-3, FA34821-5, FA34821-6, FA34821-7

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	94%	83-118%
17060-07-0	1,2-Dichloroethane-D4	98%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	103%	83-118%

Method Blank Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5352-MB	J0977585.D	1	06/27/16	DP	n/a	n/a	VJ5352

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

FA34821-3, FA34821-4, FA34821-6

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

Method Blank Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5352-MB	J0977585.D	1	06/27/16	DP	n/a	n/a	VJ5352

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

FA34821-3, FA34821-4, FA34821-6

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

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	83-118%
17060-07-0	1,2-Dichloroethane-D4	90%	79-125%
2037-26-5	Toluene-D8	98%	85-112%
460-00-4	4-Bromofluorobenzene	112%	83-118%

Blank Spike Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5346-BS	J0977463.D	1	06/23/16	DP	n/a	n/a	VJ5346

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

FA34821-1, FA34821-2, FA34821-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	171	137	50-147
71-43-2	Benzene	25	25.4	102	81-122
100-44-7	Benzyl Chloride	25	18.2	73	54-122
74-97-5	Bromochloromethane	25	23.1	92	76-123
75-27-4	Bromodichloromethane	25	25.0	100	79-123
75-25-2	Bromoform	25	23.3	93	66-123
78-93-3	2-Butanone (MEK)	125	153	122	56-143
75-15-0	Carbon Disulfide	25	27.3	109	66-148
56-23-5	Carbon Tetrachloride	25	28.2	113	76-136
108-90-7	Chlorobenzene	25	25.5	102	82-124
75-00-3	Chloroethane	25	28.3	113	62-144
67-66-3	Chloroform	25	25.5	102	80-124
110-82-7	Cyclohexane	25	28.7	115	73-138
124-48-1	Dibromochloromethane	25	23.1	92	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	25.2	101	64-123
106-93-4	1,2-Dibromoethane	25	24.7	99	75-120
75-71-8	Dichlorodifluoromethane	25	25.9	104	42-167
95-50-1	1,2-Dichlorobenzene	25	25.1	100	82-124
541-73-1	1,3-Dichlorobenzene	25	25.0	100	84-125
106-46-7	1,4-Dichlorobenzene	25	24.5	98	78-120
75-34-3	1,1-Dichloroethane	25	27.9	112	81-122
107-06-2	1,2-Dichloroethane	25	26.0	104	75-125
75-35-4	1,1-Dichloroethylene	25	28.2	113	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.4	98	78-120
156-60-5	trans-1,2-Dichloroethylene	25	30.9	124	76-127
78-87-5	1,2-Dichloropropane	25	25.3	101	76-124
10061-01-5	cis-1,3-Dichloropropene	25	22.7	91	75-118
10061-02-6	trans-1,3-Dichloropropene	25	27.7	111	80-120
100-41-4	Ethylbenzene	25	26.7	107	81-121
76-13-1	Freon 113	25	26.2	105	72-134
591-78-6	2-Hexanone	125	155	124	61-129
98-82-8	Isopropylbenzene	25	28.4	114	83-132
99-87-6	p-Isopropyltoluene	25	26.5	106	79-130
79-20-9	Methyl Acetate	125	135	108	65-126
74-83-9	Methyl Bromide	25	25.2	101	59-143
74-87-3	Methyl Chloride	25	27.7	111	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5346-BS	J0977463.D	1	06/23/16	DP	n/a	n/a	VJ5346

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

FA34821-1, FA34821-2, FA34821-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	26.7	107	76-129
75-09-2	Methylene Chloride	25	28.1	112	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	156	125*	66-122
1634-04-4	Methyl Tert Butyl Ether	25	22.7	91	72-117
100-42-5	Styrene	25	24.8	99	78-119
75-85-4	Tert-Amyl Alcohol	250	208	83	65-124
75-65-0	Tert-Butyl Alcohol	250	212	85	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	23.8	95	72-120
127-18-4	Tetrachloroethylene	25	30.8	123	76-135
109-99-9	Tetrahydrofuran	25	23.7	95	56-122
108-88-3	Toluene	25	24.7	99	80-120
87-61-6	1,2,3-Trichlorobenzene	25	25.3	101	68-131
120-82-1	1,2,4-Trichlorobenzene	25	21.9	88	73-129
71-55-6	1,1,1-Trichloroethane	25	27.1	108	75-130
79-00-5	1,1,2-Trichloroethane	25	24.8	99	76-119
79-01-6	Trichloroethylene	25	26.4	106	81-126
75-69-4	Trichlorofluoromethane	25	29.0	116	71-156
95-63-6	1,2,4-Trimethylbenzene	25	24.5	98	79-120
75-01-4	Vinyl Chloride	25	27.6	110	69-159
	m,p-Xylene	50	54.3	109	79-126
95-47-6	o-Xylene	25	26.6	106	80-127

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

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5348-BS	J0977493.D	1	06/24/16	DP	n/a	n/a	VJ5348

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

FA34821-3, FA34821-5, FA34821-6, FA34821-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	131	105	50-147
71-43-2	Benzene	25	26.3	105	81-122
100-44-7	Benzyl Chloride	25	24.5	98	54-122
74-97-5	Bromochloromethane	25	23.0	92	76-123
75-27-4	Bromodichloromethane	25	23.2	93	79-123
75-25-2	Bromoform	25	19.3	77	66-123
78-93-3	2-Butanone (MEK)	125	130	104	56-143
75-15-0	Carbon Disulfide	25	27.6	110	66-148
56-23-5	Carbon Tetrachloride	25	24.9	100	76-136
108-90-7	Chlorobenzene	25	24.4	98	82-124
75-00-3	Chloroethane	25	26.9	108	62-144
67-66-3	Chloroform	25	24.1	96	80-124
110-82-7	Cyclohexane	25	30.0	120	73-138
124-48-1	Dibromochloromethane	25	22.3	89	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	23.9	96	64-123
106-93-4	1,2-Dibromoethane	25	23.0	92	75-120
75-71-8	Dichlorodifluoromethane	25	23.7	95	42-167
95-50-1	1,2-Dichlorobenzene	25	25.1	100	82-124
541-73-1	1,3-Dichlorobenzene	25	25.9	104	84-125
106-46-7	1,4-Dichlorobenzene	25	24.5	98	78-120
75-34-3	1,1-Dichloroethane	25	27.5	110	81-122
107-06-2	1,2-Dichloroethane	25	24.1	96	75-125
75-35-4	1,1-Dichloroethylene	25	27.5	110	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.0	96	78-120
156-60-5	trans-1,2-Dichloroethylene	25	31.8	127	76-127
78-87-5	1,2-Dichloropropane	25	26.5	106	76-124
10061-01-5	cis-1,3-Dichloropropene	25	22.3	89	75-118
10061-02-6	trans-1,3-Dichloropropene	25	25.6	102	80-120
100-41-4	Ethylbenzene	25	25.0	100	81-121
76-13-1	Freon 113	25	25.9	104	72-134
591-78-6	2-Hexanone	125	132	106	61-129
98-82-8	Isopropylbenzene	25	25.8	103	83-132
99-87-6	p-Isopropyltoluene	25	26.6	106	79-130
79-20-9	Methyl Acetate	125	128	102	65-126
74-83-9	Methyl Bromide	25	24.4	98	59-143
74-87-3	Methyl Chloride	25	27.3	109	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5348-BS	J0977493.D	1	06/24/16	DP	n/a	n/a	VJ5348

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

FA34821-3, FA34821-5, FA34821-6, FA34821-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	27.7	111	76-129
75-09-2	Methylene Chloride	25	34.9	140*	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	128	102	66-122
1634-04-4	Methyl Tert Butyl Ether	25	21.2	85	72-117
100-42-5	Styrene	25	23.8	95	78-119
75-85-4	Tert-Amyl Alcohol	250	200	80	65-124
75-65-0	Tert-Butyl Alcohol	250	211	84	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	26.3	105	72-120
127-18-4	Tetrachloroethylene	25	26.8	107	76-135
109-99-9	Tetrahydrofuran	25	25.6	102	56-122
108-88-3	Toluene	25	24.5	98	80-120
87-61-6	1,2,3-Trichlorobenzene	25	26.4	106	68-131
120-82-1	1,2,4-Trichlorobenzene	25	23.0	92	73-129
71-55-6	1,1,1-Trichloroethane	25	23.3	93	75-130
79-00-5	1,1,2-Trichloroethane	25	24.1	96	76-119
79-01-6	Trichloroethylene	25	27.6	110	81-126
75-69-4	Trichlorofluoromethane	25	26.0	104	71-156
95-63-6	1,2,4-Trimethylbenzene	25	25.7	103	79-120
75-01-4	Vinyl Chloride	25	26.7	107	69-159
	m,p-Xylene	50	49.9	100	79-126
95-47-6	o-Xylene	25	23.8	95	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	83-118%
17060-07-0	1,2-Dichloroethane-D4	103%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5352-BS	J0977584.D	1	06/27/16	DP	n/a	n/a	VJ5352

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

FA34821-3, FA34821-4, FA34821-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	114	91	50-147
71-43-2	Benzene	25	25.7	103	81-122
100-44-7	Benzyl Chloride	25	22.2	89	54-122
74-97-5	Bromochloromethane	25	23.2	93	76-123
75-27-4	Bromodichloromethane	25	21.3	85	79-123
75-25-2	Bromoform	25	17.8	71	66-123
78-93-3	2-Butanone (MEK)	125	107	86	56-143
75-15-0	Carbon Disulfide	25	25.6	102	66-148
56-23-5	Carbon Tetrachloride	25	25.0	100	76-136
108-90-7	Chlorobenzene	25	24.3	97	82-124
75-00-3	Chloroethane	25	25.4	102	62-144
67-66-3	Chloroform	25	22.4	90	80-124
110-82-7	Cyclohexane	25	26.3	105	73-138
124-48-1	Dibromochloromethane	25	21.4	86	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	20.9	84	64-123
106-93-4	1,2-Dibromoethane	25	22.1	88	75-120
75-71-8	Dichlorodifluoromethane	25	20.5	82	42-167
95-50-1	1,2-Dichlorobenzene	25	26.0	104	82-124
541-73-1	1,3-Dichlorobenzene	25	26.3	105	84-125
106-46-7	1,4-Dichlorobenzene	25	26.3	105	78-120
75-34-3	1,1-Dichloroethane	25	26.2	105	81-122
107-06-2	1,2-Dichloroethane	25	21.0	84	75-125
75-35-4	1,1-Dichloroethylene	25	23.9	96	78-137
156-59-2	cis-1,2-Dichloroethylene	25	24.2	97	78-120
156-60-5	trans-1,2-Dichloroethylene	25	27.9	112	76-127
78-87-5	1,2-Dichloropropane	25	24.0	96	76-124
10061-01-5	cis-1,3-Dichloropropene	25	21.7	87	75-118
10061-02-6	trans-1,3-Dichloropropene	25	23.4	94	80-120
100-41-4	Ethylbenzene	25	24.7	99	81-121
76-13-1	Freon 113	25	23.5	94	72-134
591-78-6	2-Hexanone	125	104	83	61-129
98-82-8	Isopropylbenzene	25	24.5	98	83-132
99-87-6	p-Isopropyltoluene	25	27.4	110	79-130
79-20-9	Methyl Acetate	125	124	99	65-126
74-83-9	Methyl Bromide	25	28.3	113	59-143
74-87-3	Methyl Chloride	25	23.8	95	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5352-BS	J0977584.D	1	06/27/16	DP	n/a	n/a	VJ5352

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

FA34821-3, FA34821-4, FA34821-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	24.5	98	76-129
75-09-2	Methylene Chloride	25	22.7	91	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	104	83	66-122
1634-04-4	Methyl Tert Butyl Ether	25	20.7	83	72-117
100-42-5	Styrene	25	23.2	93	78-119
75-85-4	Tert-Amyl Alcohol	250	229	92	65-124
75-65-0	Tert-Butyl Alcohol	250	216	86	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	27.8	111	72-120
127-18-4	Tetrachloroethylene	25	23.1	92	76-135
109-99-9	Tetrahydrofuran	25	23.2	93	56-122
108-88-3	Toluene	25	24.6	98	80-120
87-61-6	1,2,3-Trichlorobenzene	25	23.5	94	68-131
120-82-1	1,2,4-Trichlorobenzene	25	21.4	86	73-129
71-55-6	1,1,1-Trichloroethane	25	22.1	88	75-130
79-00-5	1,1,2-Trichloroethane	25	23.3	93	76-119
79-01-6	Trichloroethylene	25	26.0	104	81-126
75-69-4	Trichlorofluoromethane	25	27.3	109	71-156
95-63-6	1,2,4-Trimethylbenzene	25	25.7	103	79-120
75-01-4	Vinyl Chloride	25	25.2	101	69-159
	m,p-Xylene	50	48.4	97	79-126
95-47-6	o-Xylene	25	23.0	92	80-127

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	83-118%
17060-07-0	1,2-Dichloroethane-D4	88%	79-125%
2037-26-5	Toluene-D8	101%	85-112%
460-00-4	4-Bromofluorobenzene	104%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34926-1MS	J0977483.D	1	06/23/16	DP	n/a	n/a	VJ5346
FA34926-1MSD	J0977484.D	1	06/23/16	DP	n/a	n/a	VJ5346
FA34926-1	J0977471.D	1	06/23/16	DP	n/a	n/a	VJ5346

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

FA34821-1, FA34821-2, FA34821-8

CAS No.	Compound	FA34926-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	169	135	125	148	118	13	50-147/21
71-43-2	Benzene	ND		25	25.1	100	25	26.0	104	4	81-122/14
100-44-7	Benzyl Chloride	ND		25	16.2	65	25	16.3	65	1	54-122/18
74-97-5	Bromochloromethane	ND		25	22.2	89	25	25.4	102	13	76-123/14
75-27-4	Bromodichloromethane	ND		25	24.1	96	25	21.6	86	11	79-123/19
75-25-2	Bromoform	ND		25	17.0	68	25	15.4	62*	10	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	147	118	125	171	137	15	56-143/18
75-15-0	Carbon Disulfide	ND		25	21.8	87	25	20.6	82	6	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	27.4	110	25	24.5	98	11	76-136/23
108-90-7	Chlorobenzene	ND		25	25.3	101	25	23.3	93	8	82-124/14
75-00-3	Chloroethane	ND		25	26.3	105	25	25.0	100	5	62-144/20
67-66-3	Chloroform	ND		25	24.9	100	25	25.9	104	4	80-124/15
110-82-7	Cyclohexane	ND		25	26.6	106	25	28.2	113	6	73-138/18
124-48-1	Dibromochloromethane	ND		25	22.2	89	25	18.3	73*	19	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	29.2	117	25	28.3	113	3	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	24.8	99	25	24.6	98	1	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	25.7	103	25	22.9	92	12	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	23.6	94	25	24.0	96	2	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	23.5	94	25	23.2	93	1	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	23.8	95	25	22.3	89	7	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	29.3	117	25	28.8	115	2	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	28.1	112	25	24.7	99	13	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	30.0	120	25	27.3	109	9	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.2	93	25	23.7	95	2	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	34.3	137*	25	30.2	121	13	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	27.1	108	25	24.9	100	8	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.9	92	25	21.2	85	8	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	26.8	107	25	21.4	86	22	80-120/22
100-41-4	Ethylbenzene	ND		25	25.8	103	25	24.5	98	5	81-121/14
76-13-1	Freon 113	ND		25	24.9	100	25	22.0	88	12	72-134/20
591-78-6	2-Hexanone	ND		125	163	130*	125	164	131*	1	61-129/18
98-82-8	Isopropylbenzene	13.6		25	42.7	116	25	38.0	98	12	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	24.7	99	25	23.3	93	6	79-130/16
79-20-9	Methyl Acetate	ND		125	132	106	125	147	118	11	65-126/18
74-83-9	Methyl Bromide	ND		25	25.5	102	25	22.9	92	11	59-143/19
74-87-3	Methyl Chloride	ND		25	24.4	98	25	25.8	103	6	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34926-1MS	J0977483.D	1	06/23/16	DP	n/a	n/a	VJ5346
FA34926-1MSD	J0977484.D	1	06/23/16	DP	n/a	n/a	VJ5346
FA34926-1	J0977471.D	1	06/23/16	DP	n/a	n/a	VJ5346

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

FA34821-1, FA34821-2, FA34821-8

CAS No.	Compound	FA34926-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		25	26.5	106	25	24.1	96	9	76-129/17
75-09-2	Methylene Chloride	ND		25	28.9	116	25	28.0	112	3	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	177	142*	125	160	128*	10	66-122/16
1634-04-4	Methyl Tert Butyl Ether	1.3		25	26.2	100	25	24.6	93	6	72-117/14
100-42-5	Styrene	ND		25	20.8	83	25	18.1	72*	14	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	178	71	250	182	73	2	65-124/23
75-65-0	Tert-Butyl Alcohol	ND		250	363	145*	250	386	154*	6	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	25.5	102	25	26.9	108	5	72-120/14
127-18-4	Tetrachloroethylene	ND		25	27.2	109	25	22.4	90	19*	76-135/16
109-99-9	Tetrahydrofuran	ND		25	24.2	97	25	34.0	136*	34*	56-122/21
108-88-3	Toluene	ND		25	26.3	105	25	22.9	92	14	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	25.2	101	25	25.0	100	1	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	20.4	82	25	20.5	82	0	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	27.1	108	25	25.8	103	5	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	30.8	123*	25	26.5	106	15*	76-119/14
79-01-6	Trichloroethylene	ND		25	26.4	106	25	27.7	111	5	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	30.8	123	25	25.7	103	18	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	22.8	91	25	21.3	85	7	79-120/18
75-01-4	Vinyl Chloride	ND		25	24.1	96	25	24.3	97	1	69-159/18
	m,p-Xylene	ND		50	52.7	105	50	48.3	97	9	79-126/15
95-47-6	o-Xylene	ND		25	25.7	103	25	23.9	96	7	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA34926-1	Limits
1868-53-7	Dibromofluoromethane	102%	115%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	120%	113%	120%	79-125%
2037-26-5	Toluene-D8	111%	98%	99%	85-112%
460-00-4	4-Bromofluorobenzene	99%	101%	113%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34926-9MS	J0977515.D	1	06/24/16	DP	n/a	n/a	VJ5348
FA34926-9MSD	J0977516.D	1	06/24/16	DP	n/a	n/a	VJ5348
FA34926-9	J0977507.D	1	06/24/16	DP	n/a	n/a	VJ5348

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

FA34821-3, FA34821-5, FA34821-6, FA34821-7

CAS No.	Compound	FA34926-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		125	123	98	125	138	110	11	50-147/21
71-43-2	Benzene	ND		25	24.9	100	25	25.2	101	1	81-122/14
100-44-7	Benzyl Chloride	ND		25	15.7	63	25	17.2	69	9	54-122/18
74-97-5	Bromochloromethane	ND		25	23.0	92	25	23.5	94	2	76-123/14
75-27-4	Bromodichloromethane	ND		25	23.9	96	25	24.4	98	2	79-123/19
75-25-2	Bromoform	ND		25	17.0	68	25	18.4	74	8	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	148	118	125	158	126	7	56-143/18
75-15-0	Carbon Disulfide	ND		25	23.4	94	25	19.6	78	18	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	28.8	115	25	25.6	102	12	76-136/23
108-90-7	Chlorobenzene	ND		25	23.4	94	25	23.8	95	2	82-124/14
75-00-3	Chloroethane	ND		25	25.5	102	25	31.0	124	19	62-144/20
67-66-3	Chloroform	ND		25	24.5	98	25	24.8	99	1	80-124/15
110-82-7	Cyclohexane	ND		25	25.4	102	25	27.0	108	6	73-138/18
124-48-1	Dibromochloromethane	ND		25	19.0	76*	25	20.2	81	6	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	23.7	95	25	24.8	99	5	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	22.5	90	25	24.7	99	9	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	21.6	86	25	24.6	98	13	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	21.8	87	25	23.9	96	9	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	21.8	87	25	24.3	97	11	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	21.6	86	25	23.4	94	8	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	29.5	118	25	28.5	114	3	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	28.8	115	25	29.7	119	3	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	28.6	114	25	27.3	109	5	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.1	92	25	22.8	91	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	29.7	119	25	32.0	128*	7	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	23.6	94	25	24.6	98	4	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	20.7	83	25	20.3	81	2	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	24.0	96	25	25.2	101	5	80-120/22
100-41-4	Ethylbenzene	ND		25	25.3	101	25	26.3	105	4	81-121/14
76-13-1	Freon 113	ND		25	23.9	96	25	24.1	96	1	72-134/20
591-78-6	2-Hexanone	ND		125	157	126	125	160	128	2	61-129/18
98-82-8	Isopropylbenzene	ND		25	27.2	109	25	27.6	110	1	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	23.0	92	25	24.9	100	8	79-130/16
79-20-9	Methyl Acetate	ND		125	125	100	125	130	104	4	65-126/18
74-83-9	Methyl Bromide	ND		25	24.3	97	25	29.8	119	20*	59-143/19
74-87-3	Methyl Chloride	ND		25	21.9	88	25	26.5	106	19	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34926-9MS	J0977515.D	1	06/24/16	DP	n/a	n/a	VJ5348
FA34926-9MSD	J0977516.D	1	06/24/16	DP	n/a	n/a	VJ5348
FA34926-9	J0977507.D	1	06/24/16	DP	n/a	n/a	VJ5348

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

FA34821-3, FA34821-5, FA34821-6, FA34821-7

CAS No.	Compound	FA34926-9 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	24.3	97	25	23.1	92	5	76-129/17
75-09-2	Methylene Chloride	ND		25	26.5	106	25	26.5	106	0	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	150	120	125	165	132*	10	66-122/16
1634-04-4	Methyl Tert Butyl Ether	5.0		25	27.3	89	25	28.6	94	5	72-117/14
100-42-5	Styrene	ND		25	21.8	87	25	22.7	91	4	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	189	76	250	194	78	3	65-124/23
75-65-0	Tert-Butyl Alcohol	ND		250	347	139*	250	362	145*	4	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	22.3	89	25	25.0	100	11	72-120/14
127-18-4	Tetrachloroethylene	ND		25	23.3	93	25	22.7	91	3	76-135/16
109-99-9	Tetrahydrofuran	ND		25	27.9	112	25	30.3	121	8	56-122/21
108-88-3	Toluene	ND		25	22.4	90	25	24.0	96	7	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	20.9	84	25	25.2	101	19	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	18.6	74	25	20.4	82	9	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	26.7	107	25	24.8	99	7	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	24.5	98	25	25.2	101	3	76-119/14
79-01-6	Trichloroethylene	ND		25	26.8	107	25	27.4	110	2	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	30.3	121	25	33.6	134	10	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	22.1	88	25	24.2	97	9	79-120/18
75-01-4	Vinyl Chloride	ND		25	23.5	94	25	27.6	110	16	69-159/18
	m,p-Xylene	ND		50	50.1	100	50	51.6	103	3	79-126/15
95-47-6	o-Xylene	ND		25	23.7	95	25	24.3	97	3	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA34926-9	Limits
1868-53-7	Dibromofluoromethane	107%	104%	107%	83-118%
17060-07-0	1,2-Dichloroethane-D4	127%*	125%	121%	79-125%
2037-26-5	Toluene-D8	103%	102%	103%	85-112%
460-00-4	4-Bromofluorobenzene	100%	98%	110%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34821-6MS	J0977605.D	250	06/27/16	DP	n/a	n/a	VJ5352
FA34821-6MSD	J0977606.D	250	06/27/16	DP	n/a	n/a	VJ5352
FA34821-6	J0977588.D	250	06/27/16	DP	n/a	n/a	VJ5352

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

FA34821-3, FA34821-4, FA34821-6

CAS No.	Compound	FA34821-6 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		31300	28400	91	31300	33100	106	15	50-147/21
71-43-2	Benzene	ND		6250	6220	100	6250	6200	99	0	81-122/14
100-44-7	Benzyl Chloride	ND		6250	4460	71	6250	4730	76	6	54-122/18
74-97-5	Bromochloromethane	ND		6250	5110	82	6250	5690	91	11	76-123/14
75-27-4	Bromodichloromethane	ND		6250	4910	79	6250	4730	76*	4	79-123/19
75-25-2	Bromoform	ND		6250	3960	63*	6250	3950	63*	0	66-123/21
78-93-3	2-Butanone (MEK)	ND		31300	26900	86	31300	29500	94	9	56-143/18
75-15-0	Carbon Disulfide	ND		6250	5670	91	6250	5460	87	4	66-148/23
56-23-5	Carbon Tetrachloride	ND		6250	5230	84	6250	5230	84	0	76-136/23
108-90-7	Chlorobenzene	ND		6250	6230	100	6250	6340	101	2	82-124/14
75-00-3	Chloroethane	ND		6250	6610	106	6250	6440	103	3	62-144/20
67-66-3	Chloroform	ND		6250	5290	85	6250	5580	89	5	80-124/15
110-82-7	Cyclohexane	ND		6250	6280	100	6250	6120	98	3	73-138/18
124-48-1	Dibromochloromethane	ND		6250	4950	79	6250	4610	74*	7	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		6250	4970	80	6250	5270	84	6	64-123/18
106-93-4	1,2-Dibromoethane	ND		6250	5720	92	6250	5950	95	4	75-120/13
75-71-8	Dichlorodifluoromethane	ND		6250	4500	72	6250	4260	68	5	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		6250	6300	101	6250	6190	99	2	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		6250	6490	104	6250	6400	102	1	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		6250	6330	101	6250	6520	104	3	78-120/15
75-34-3	1,1-Dichloroethane	ND		6250	6030	96	6250	6100	98	1	81-122/15
107-06-2	1,2-Dichloroethane	ND		6250	4860	78	6250	4840	77	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		6250	5420	87	6250	5560	89	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		6250	5590	89	6250	6000	96	7	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		6250	6250	100	6250	6160	99	1	76-127/17
78-87-5	1,2-Dichloropropane	ND		6250	6230	100	6250	6090	97	2	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		6250	4940	79	6250	4990	80	1	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		6250	5280	84	6250	5370	86	2	80-120/22
100-41-4	Ethylbenzene	6460		6250	11200	76*	6250	11400	79*	2	81-121/14
76-13-1	Freon 113	ND		6250	5540	89	6250	5030	80	10	72-134/20
591-78-6	2-Hexanone	ND		31300	28700	92	31300	30700	98	7	61-129/18
98-82-8	Isopropylbenzene	ND		6250	6100	98	6250	6480	104	6	83-132/15
99-87-6	p-Isopropyltoluene	ND		6250	6520	104	6250	6720	108	3	79-130/16
79-20-9	Methyl Acetate	ND		31300	32700	105	31300	31100	100	5	65-126/18
74-83-9	Methyl Bromide	ND		6250	6610	106	6250	6490	104	2	59-143/19
74-87-3	Methyl Chloride	ND		6250	5320	85	6250	5560	89	4	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA34821-6MS	J0977605.D	250	06/27/16	DP	n/a	n/a	VJ5352
FA34821-6MSD	J0977606.D	250	06/27/16	DP	n/a	n/a	VJ5352
FA34821-6	J0977588.D	250	06/27/16	DP	n/a	n/a	VJ5352

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

FA34821-3, FA34821-4, FA34821-6

CAS No.	Compound	FA34821-6 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		6250	5860	94	6250	6150	98	5	76-129/17
75-09-2	Methylene Chloride	ND		6250	5820	93	6250	6090	97	5	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		31300	29700	95	31300	31700	101	7	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		6250	4630	74	6250	4910	79	6	72-117/14
100-42-5	Styrene	ND		6250	5630	90	6250	5880	94	4	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		62500	47300	76	62500	51900	83	9	65-124/23
75-65-0	Tert-Butyl Alcohol	ND		62500	51600	83	62500	51400	82	0	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		6250	6680	107	6250	7480	120	11	72-120/14
127-18-4	Tetrachloroethylene	ND		6250	5930	95	6250	5900	94	1	76-135/16
109-99-9	Tetrahydrofuran	ND		6250	5280	84	6250	6120	98	15	56-122/21
108-88-3	Toluene	ND		6250	5880	94	6250	6170	99	5	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		6250	5340	85	6250	5830	93	9	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		6250	4940	79	6250	4910	79	1	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		6250	4880	78	6250	5260	84	7	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		6250	6200	99	6250	6570	105	6	76-119/14
79-01-6	Trichloroethylene	ND		6250	6200	99	6250	6110	98	1	81-126/15
75-69-4	Trichlorofluoromethane	ND		6250	6650	106	6250	6210	99	7	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		6250	6010	96	6250	6260	100	4	79-120/18
75-01-4	Vinyl Chloride	ND		6250	6290	101	6250	6590	105	5	69-159/18
	m,p-Xylene	18800		12500	26600	62*	12500	26100	58*	2	79-126/15
95-47-6	o-Xylene	1050		6250	6370	85	6250	6680	90	5	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA34821-6	Limits
1868-53-7	Dibromofluoromethane	93%	96%	92%	83-118%
17060-07-0	1,2-Dichloroethane-D4	85%	85%	86%	79-125%
2037-26-5	Toluene-D8	100%	107%	108%	85-112%
460-00-4	4-Bromofluorobenzene	103%	110%	116%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5340-BFB
Lab File ID: J0977350.D
Instrument ID: GCMSJ
Injection Date: 06/21/16
Injection Time: 07:44

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	31261	23.3		Pass
75	30.0 - 60.0% of mass 95	78256	58.4		Pass
95	Base peak, 100% relative abundance	134093	100.0		Pass
96	5.0 - 9.0% of mass 95	9296	6.93		Pass
173	Less than 2.0% of mass 174	650	0.48	(0.60) [a]	Pass
174	50.0 - 100.0% of mass 95	108475	80.9		Pass
175	5.0 - 9.0% of mass 174	8418	6.28	(7.76) [a]	Pass
176	95.0 - 101.0% of mass 174	108896	81.2	(100.4) [a]	Pass
177	5.0 - 9.0% of mass 176	7295	5.44	(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
VJ5340-IC5340	J0977352.D	06/21/16	08:38	00:54	Initial cal 1
VJ5340-IC5340	J0977353.D	06/21/16	09:01	01:17	Initial cal 2
VJ5340-IC5340	J0977354.D	06/21/16	09:24	01:40	Initial cal 3
VJ5340-IC5340	J0977355.D	06/21/16	09:47	02:03	Initial cal 4
VJ5340-ICC5340	J0977356.D	06/21/16	10:09	02:25	Initial cal 5
VJ5340-IC5340	J0977357.D	06/21/16	10:32	02:48	Initial cal 6
VJ5340-IC5340	J0977358.D	06/21/16	10:55	03:11	Initial cal 7
VJ5340-ICV5340	J0977360.D	06/21/16	11:51	04:07	Initial cal verification 5
VJ5340-BS	J0977361.D	06/21/16	12:44	05:00	Blank Spike
VJ5340-MB	J0977362.D	06/21/16	13:07	05:23	Method Blank
ZZZZZZ	J0977363.D	06/21/16	13:30	05:46	(unrelated sample)
FA34698-2	J0977364.D	06/21/16	13:53	06:09	(used for QC only; not part of job FA34821)
ZZZZZZ	J0977366.D	06/21/16	14:38	06:54	(unrelated sample)
ZZZZZZ	J0977368.D	06/21/16	15:24	07:40	(unrelated sample)
ZZZZZZ	J0977369.D	06/21/16	15:47	08:03	(unrelated sample)
ZZZZZZ	J0977370.D	06/21/16	16:10	08:26	(unrelated sample)
ZZZZZZ	J0977371.D	06/21/16	16:32	08:48	(unrelated sample)
FA34698-2MS	J0977372.D	06/21/16	16:55	09:11	Matrix Spike
FA34698-2MSD	J0977373.D	06/21/16	17:18	09:34	Matrix Spike Duplicate
VJ5340-ECC5340	J0977374.D	06/21/16	17:41	09:57	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5345-BFB
Lab File ID: J0977461.D
Instrument ID: GCMSJ
Injection Date: 06/23/16
Injection Time: 09:06

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	12936	21.7		Pass
75	30.0 - 60.0% of mass 95	34445	57.7		Pass
95	Base peak, 100% relative abundance	59733	100.0		Pass
96	5.0 - 9.0% of mass 95	4046	6.77		Pass
173	Less than 2.0% of mass 174	72	0.12	(0.18) [a]	Pass
174	50.0 - 100.0% of mass 95	40539	67.9		Pass
175	5.0 - 9.0% of mass 174	3271	5.48	(8.07) [a]	Pass
176	95.0 - 101.0% of mass 174	39875	66.8	(98.4) [a]	Pass
177	5.0 - 9.0% of mass 176	2959	4.95	(7.42) [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
VJ5345-CC5340	J0977462.D	06/23/16	09:30	00:24	Continuing cal 5
VJ5345-BS	J0977463.D	06/23/16	10:00	00:54	Blank Spike
VJ5346-BS	J0977463.D	06/23/16	10:00	00:54	Blank Spike
VJ5346-MB	J0977464.D	06/23/16	10:23	01:17	Method Blank
VJ5345-MB	J0977464.D	06/23/16	10:23	01:17	Method Blank
ZZZZZZ	J0977465.D	06/23/16	10:46	01:40	(unrelated sample)
ZZZZZZ	J0977466.D	06/23/16	11:08	02:02	(unrelated sample)
FA34807-12	J0977467.D	06/23/16	11:31	02:25	(used for QC only; not part of job FA34821)
FA34821-1	J0977468.D	06/23/16	11:54	02:48	S-33
FA34821-2	J0977469.D	06/23/16	12:17	03:11	S-34
FA34821-8	J0977470.D	06/23/16	12:40	03:34	TB061616
FA34926-1	J0977471.D	06/23/16	13:03	03:57	(used for QC only; not part of job FA34821)
ZZZZZZ	J0977472.D	06/23/16	13:26	04:20	(unrelated sample)
ZZZZZZ	J0977474.D	06/23/16	14:12	05:06	(unrelated sample)
ZZZZZZ	J0977475.D	06/23/16	14:35	05:29	(unrelated sample)
ZZZZZZ	J0977476.D	06/23/16	14:58	05:52	(unrelated sample)
ZZZZZZ	J0977477.D	06/23/16	15:21	06:15	(unrelated sample)
ZZZZZZ	J0977478.D	06/23/16	15:44	06:38	(unrelated sample)
ZZZZZZ	J0977481.D	06/23/16	16:53	07:47	(unrelated sample)
ZZZZZZ	J0977482.D	06/23/16	17:16	08:10	(unrelated sample)
FA34926-1MS	J0977483.D	06/23/16	17:39	08:33	Matrix Spike
FA34926-1MSD	J0977484.D	06/23/16	18:02	08:56	Matrix Spike Duplicate
FA34807-12MS	J0977487.D	06/23/16	19:11	10:05	Matrix Spike
FA34807-12MSD	J0977488.D	06/23/16	19:34	10:28	Matrix Spike Duplicate

Instrument Performance Check (BFB)

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5345-BFB
Lab File ID: J0977461.D
Instrument ID: GCMSJ
Injection Date: 06/23/16
Injection Time: 09:06

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VJ5345-ECC5340	J0977489.D	06/23/16	19:57	10:51	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5347-BFB
Lab File ID: J0977491.D
Instrument ID: GCMSJ
Injection Date: 06/24/16
Injection Time: 08:16

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	31104	26.8		Pass
75	30.0 - 60.0% of mass 95	68192	58.8		Pass
95	Base peak, 100% relative abundance	115984	100.0		Pass
96	5.0 - 9.0% of mass 95	7279	6.28		Pass
173	Less than 2.0% of mass 174	324	0.28	(0.35) [a]	Pass
174	50.0 - 100.0% of mass 95	92827	80.0		Pass
175	5.0 - 9.0% of mass 174	5786	4.99	(6.23) [a]	Pass
176	95.0 - 101.0% of mass 174	91589	79.0	(98.7) [a]	Pass
177	5.0 - 9.0% of mass 176	5998	5.17	(6.55) [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
VJ5347-CC5340	J0977492.D	06/24/16	08:51	00:35	Continuing cal 5
VJ5348-BS	J0977493.D	06/24/16	09:22	01:06	Blank Spike
VJ5347-BS	J0977493.D	06/24/16	09:22	01:06	Blank Spike
VJ5347-MB	J0977494.D	06/24/16	09:45	01:29	Method Blank
VJ5348-MB	J0977494.D	06/24/16	09:45	01:29	Method Blank
ZZZZZZ	J0977495.D	06/24/16	10:29	02:13	(unrelated sample)
ZZZZZZ	J0977496.D	06/24/16	10:52	02:36	(unrelated sample)
ZZZZZZ	J0977497.D	06/24/16	11:15	02:59	(unrelated sample)
ZZZZZZ	J0977498.D	06/24/16	11:38	03:22	(unrelated sample)
FA34832-5	J0977499.D	06/24/16	12:01	03:45	(used for QC only; not part of job FA34821)
ZZZZZZ	J0977500.D	06/24/16	12:24	04:08	(unrelated sample)
ZZZZZZ	J0977501.D	06/24/16	12:47	04:31	(unrelated sample)
ZZZZZZ	J0977502.D	06/24/16	13:11	04:55	(unrelated sample)
ZZZZZZ	J0977503.D	06/24/16	13:34	05:18	(unrelated sample)
ZZZZZZ	J0977504.D	06/24/16	13:57	05:41	(unrelated sample)
ZZZZZZ	J0977505.D	06/24/16	14:20	06:04	(unrelated sample)
ZZZZZZ	J0977506.D	06/24/16	14:43	06:27	(unrelated sample)
FA34926-9	J0977507.D	06/24/16	15:06	06:50	(used for QC only; not part of job FA34821)
ZZZZZZ	J0977508.D	06/24/16	15:29	07:13	(unrelated sample)
FA34821-3	J0977509.D	06/24/16	15:52	07:36	G-1R3
FA34821-5	J0977511.D	06/24/16	16:39	08:23	D-1R
FA34821-6	J0977512.D	06/24/16	17:02	08:46	MW-19
FA34821-7	J0977513.D	06/24/16	17:25	09:09	MW-22S
ZZZZZZ	J0977514.D	06/24/16	17:48	09:32	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5347-BFB
Lab File ID: J0977491.D
Instrument ID: GCMSJ
Injection Date: 06/24/16
Injection Time: 08:16

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA34926-9MS	J0977515.D	06/24/16	18:11	09:55	Matrix Spike
FA34926-9MSD	J0977516.D	06/24/16	18:34	10:18	Matrix Spike Duplicate
FA34832-5MS	J0977517.D	06/24/16	18:58	10:42	Matrix Spike
FA34832-5MSD	J0977518.D	06/24/16	19:21	11:05	Matrix Spike Duplicate
VJ5347-ECC5340	J0977519.D	06/24/16	19:44	11:28	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5351-BFB
Lab File ID: J0977582.D
Instrument ID: GCMSJ
Injection Date: 06/27/16
Injection Time: 08:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	16326	21.7		Pass
75	30.0 - 60.0% of mass 95	39800	52.8		Pass
95	Base peak, 100% relative abundance	75376	100.0		Pass
96	5.0 - 9.0% of mass 95	4179	5.54		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	55480	73.6		Pass
175	5.0 - 9.0% of mass 174	4223	5.60	(7.61) [a]	Pass
176	95.0 - 101.0% of mass 174	53637	71.2	(96.7) [a]	Pass
177	5.0 - 9.0% of mass 176	3811	5.06	(7.11) [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
VJ5351-CC5340	J0977583.D	06/27/16	09:11	00:24	Continuing cal 5
VJ5351-BS	J0977584.D	06/27/16	09:47	01:00	Blank Spike
VJ5352-BS	J0977584.D	06/27/16	09:47	01:00	Blank Spike
VJ5351-MB	J0977585.D	06/27/16	10:10	01:23	Method Blank
VJ5352-MB	J0977585.D	06/27/16	10:10	01:23	Method Blank
FA34821-4	J0977586.D	06/27/16	10:33	01:46	E-1R
FA34821-3	J0977587.D	06/27/16	10:56	02:09	G-1R3
FA34821-6	J0977588.D	06/27/16	11:18	02:31	MW-19
ZZZZZZ	J0977589.D	06/27/16	11:41	02:54	(unrelated sample)
FA34866-12	J0977590.D	06/27/16	12:04	03:17	(used for QC only; not part of job FA34821)
ZZZZZZ	J0977591.D	06/27/16	12:27	03:40	(unrelated sample)
ZZZZZZ	J0977592.D	06/27/16	12:50	04:03	(unrelated sample)
ZZZZZZ	J0977593.D	06/27/16	13:13	04:26	(unrelated sample)
ZZZZZZ	J0977594.D	06/27/16	13:36	04:49	(unrelated sample)
ZZZZZZ	J0977595.D	06/27/16	13:59	05:12	(unrelated sample)
ZZZZZZ	J0977596.D	06/27/16	14:22	05:35	(unrelated sample)
ZZZZZZ	J0977597.D	06/27/16	14:45	05:58	(unrelated sample)
ZZZZZZ	J0977598.D	06/27/16	15:08	06:21	(unrelated sample)
ZZZZZZ	J0977599.D	06/27/16	15:31	06:44	(unrelated sample)
ZZZZZZ	J0977600.D	06/27/16	15:55	07:08	(unrelated sample)
ZZZZZZ	J0977601.D	06/27/16	16:18	07:31	(unrelated sample)
ZZZZZZ	J0977602.D	06/27/16	16:41	07:54	(unrelated sample)
ZZZZZZ	J0977603.D	06/27/16	17:04	08:17	(unrelated sample)
ZZZZZZ	J0977604.D	06/27/16	17:27	08:40	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5351-BFB
Lab File ID: J0977582.D
Instrument ID: GCMSJ
Injection Date: 06/27/16
Injection Time: 08:47

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA34821-6MS	J0977605.D	06/27/16	17:50	09:03	Matrix Spike
FA34821-6MSD	J0977606.D	06/27/16	18:13	09:26	Matrix Spike Duplicate
FA34866-12MS	J0977607.D	06/27/16	18:36	09:49	Matrix Spike
FA34866-12MSD	J0977608.D	06/27/16	18:58	10:11	Matrix Spike Duplicate
VJ5351-ECC5340	J0977609.D	06/27/16	19:21	10:34	Ending cal 5

Volatile Internal Standard Area Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5345-CC5340	**Injection Date:**	06/23/16
Lab File ID:	J0977462.D	**Injection Time:**	09:30
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]	514943	7.75	379568	10.83	202128	13.19	39582	5.30
Check Std [b]	438132	7.74	315595	10.83	166911	13.19	32425	5.28
Upper Limit [c]	876264	8.24	631190	11.33	333822	13.69	64850	5.78
Lower Limit [d]	219066	7.24	157798	10.33	83456	12.69	16213	4.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5345-BS	438096	7.74	314885	10.83	178096	13.19	34645	5.28
VJ5346-BS	438096	7.74	314885	10.83	178096	13.19	34645	5.28
VJ5346-MB	435414	7.74	337166	10.83	150537	13.19	32024	5.27
VJ5345-MB	435414	7.74	337166	10.83	150537	13.19	32024	5.27
ZZZZZZ	432299	7.75	307328	10.83	155268	13.19	30508	5.28
ZZZZZZ	382450	7.74	291693	10.84	146807	13.19	24498	5.28
FA34807-12	390360	7.75	280952	10.83	141252	13.19	22541	5.28
FA34821-1	366965	7.75	255669	10.83	132463	13.19	24536	5.28
FA34821-2	343905	7.75	248605	10.83	133447	13.19	23223	5.29
FA34821-8	344104	7.75	245804	10.83	136469	13.19	21500	5.28
FA34926-1	347715	7.74	271792	10.83	134131	13.19	23963	5.30
ZZZZZZ	402180	7.75	274954	10.83	142081	13.19	26279	5.29
ZZZZZZ	382711	7.75	256375	10.83	132393	13.19	28338	5.28
ZZZZZZ	371261	7.74	251251	10.84	129984	13.19	29523	5.28
ZZZZZZ	363744	7.75	262514	10.83	126089	13.19	26210	5.30
ZZZZZZ	370408	7.75	278434	10.83	126466	13.19	25925	5.27
ZZZZZZ	347062	7.74	227456	10.83	122066	13.19	26316	5.29
ZZZZZZ	354196	7.74	237789	10.83	117401	13.19	27339	5.27
ZZZZZZ	334308	7.75	256811	10.83	121746	13.19	26438	5.28
FA34926-1MS	348281	7.74	239599	10.83	145158	13.19	30247	5.30
FA34926-1MSD	448745	7.75	348139	10.83	188131	13.19	39759	5.30
FA34807-12MS	542952	7.74	383693	10.83	190694	13.19	44185	5.28
FA34807-12MSD	584201	7.75	401348	10.83	197555	13.19	46696	5.28
VJ5345-ECC5340	592060	7.74	419804	10.84	225040	13.19	46207	5.29

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

(a) Initial Cal is: VJ5340-ICC5340 J0977356.D 06/21/16 10:09
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5345-CC5340	**Injection Date:**	06/23/16
Lab File ID:	J0977462.D	**Injection Time:**	09:30
Instrument ID:	GCMSJ	**Method:**	SW846 8260C

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

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

Volatile Internal Standard Area Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5347-CC5340	**Injection Date:**	06/24/16
Lab File ID:	J0977492.D	**Injection Time:**	08:51
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]	514943	7.75	379568	10.83	202128	13.19	39582	5.30
Check Std [b]	561953	7.74	388965	10.83	209995	13.19	45506	5.29
Upper Limit [c]	1123906	8.24	777930	11.33	419990	13.69	91012	5.79
Lower Limit [d]	280977	7.24	194483	10.33	104998	12.69	22753	4.79

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5347-BS	590551	7.74	405093	10.83	204499	13.19	49263	5.29
VJ5348-BS	590551	7.74	405093	10.83	204499	13.19	49263	5.29
VJ5347-MB	553788	7.74	385372	10.83	190530	13.19	39913	5.28
VJ5348-MB	553788	7.74	385372	10.83	190530	13.19	39913	5.28
ZZZZZZ	543874	7.74	367093	10.83	184511	13.19	36331	5.28
ZZZZZZ	442379	7.74	320444	10.83	171328	13.19	33655	5.28
ZZZZZZ	438023	7.75	326059	10.83	167899	13.19	32513	5.28
ZZZZZZ	455737	7.74	320504	10.83	161001	13.19	30525	5.27
FA34832-5	420199	7.74	301976	10.83	157406	13.19	31709	5.27
ZZZZZZ	434588	7.74	304504	10.83	155389	13.19	31733	5.28
ZZZZZZ	414094	7.74	291176	10.83	144956	13.19	30038	5.29
ZZZZZZ	405712	7.75	282936	10.84	143830	13.19	28647	5.29
ZZZZZZ	388351	7.75	264075	10.83	138363	13.19	27910	5.29
ZZZZZZ	366328	7.74	259539	10.83	130623	13.19	28733	5.28
ZZZZZZ	355329	7.75	258009	10.83	123667	13.19	29286	5.30
ZZZZZZ	340024	7.74	267536	10.83	137168	13.19	26490	5.27
FA34926-9	322141	7.75	228231	10.83	118985	13.19	24257	5.28
ZZZZZZ	314306	7.75	223484	10.84	119857	13.19	22225*	5.29
FA34821-3	327653	7.75	237795	10.84	153422	13.19	23097	5.28
FA34821-5	315382	7.75	221187	10.83	121762	13.19	26394	5.27
FA34821-6	318993	7.75	230304	10.83	122432	13.19	25167	5.28
FA34821-7	316019	7.74	217852	10.83	117684	13.19	25664	5.28
ZZZZZZ	295454	7.74	219966	10.83	110455	13.19	24782	5.28
FA34926-9MS	303003	7.74	223501	10.83	131763	13.19	26557	5.28
FA34926-9MSD	348541	7.75	251520	10.83	142294	13.19	32290	5.30
FA34832-5MS	395469	7.75	304670	10.84	174693	13.19	32142	5.29
FA34832-5MSD	430391	7.75	313870	10.83	171719	13.19	37757	5.29
VJ5347-ECC5340	470122	7.74	326562	10.83	184394	13.19	40287	5.29

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

Volatile Internal Standard Area Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5347-CC5340	**Injection Date:**	06/24/16
Lab File ID:	J0977492.D	**Injection Time:**	08:51
Instrument ID:	GCMSJ	**Method:**	SW846 8260C

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

(a) Initial Cal is: VJ5340-ICC5340 J0977356.D 06/21/16 10:09
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5351-CC5340	**Injection Date:**	06/27/16
Lab File ID:	J0977583.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]	514943	7.75	379568	10.83	202128	13.19	39582	5.30
Check Std [b]	493753	7.74	348474	10.83	180010	13.19	34401	5.28
Upper Limit [c]	987506	8.24	696948	11.33	360020	13.69	68802	5.78
Lower Limit [d]	246877	7.24	174237	10.33	90005	12.69	17201	4.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5352-BS	540415	7.74	389064	10.83	189364	13.19	36919	5.28
VJ5351-BS	540415	7.74	389064	10.83	189364	13.19	36919	5.28
VJ5351-MB	485469	7.74	358404	10.83	163714	13.19	35423	5.28
VJ5352-MB	485469	7.74	358404	10.83	163714	13.19	35423	5.28
FA34821-4	489966	7.74	340820	10.83	156850	13.19	26567	5.28
FA34821-3	458528	7.74	318635	10.83	149316	13.19	30525	5.29
FA34821-6	464104	7.74	307172	10.83	133573	13.19	24975	5.28
ZZZZZZ	459089	7.74	276747	10.83	137281	13.19	26355	5.29
FA34866-12	419420	7.75	320308	10.83	151378	13.19	26340	5.30
ZZZZZZ	413487	7.74	310573	10.83	151223	13.19	28217	5.29
ZZZZZZ	422807	7.74	298825	10.83	130574	13.19	27528	5.28
ZZZZZZ	403137	7.75	299047	10.83	140553	13.19	26319	5.28
ZZZZZZ	384188	7.74	281847	10.84	130490	13.19	27365	5.28
ZZZZZZ	362270	7.74	284160	10.83	121995	13.19	25717	5.27
ZZZZZZ	363032	7.75	265031	10.83	124840	13.19	23398	5.28
ZZZZZZ	346189	7.74	249279	10.83	121582	13.19	24550	5.30
ZZZZZZ	367400	7.74	263062	10.83	138695	13.19	22622	5.27
ZZZZZZ	396507	7.74	279033	10.83	128847	13.19	26710	5.27
ZZZZZZ	378409	7.75	256881	10.83	121254	13.19	26607	5.28
ZZZZZZ	436565	7.75	342468	10.84	176560	13.19	30472	5.29
ZZZZZZ	532696	7.74	380204	10.83	175742	13.19	37401	5.30
ZZZZZZ	512030	7.74	341869	10.84	170698	13.19	32075	5.30
ZZZZZZ	531224	7.74	368333	10.83	163739	13.19	34677	5.27
FA34821-6MS	526872	7.74	367519	10.83	184438	13.19	36135	5.28
FA34821-6MSD	544447	7.74	385617	10.83	187477	13.19	39318	5.27
FA34866-12MS	579777	7.75	401038	10.83	194582	13.19	43762	5.28
FA34866-12MSD	611131	7.74	442451	10.83	214961	13.19	43768	5.28
VJ5351-ECC5340	634033	7.75	440460	10.83	208652	13.19	41224	5.31

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

Volatile Internal Standard Area Summary

Job Number: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5351-CC5340	**Injection Date:**	06/27/16
Lab File ID:	J0977583.D	**Injection Time:**	09:11
Instrument ID:	GCMSJ	**Method:**	SW846 8260C

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

(a) Initial Cal is: VJ5340-ICC5340 J0977356.D 06/21/16 10:09
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: FA34821
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
FA34821-1	J0977468.D	102	111	106	104
FA34821-2	J0977469.D	105	120	106	104
FA34821-3	J0977587.D	97	87	101	108
FA34821-3	J0977509.D	101	116	102	84
FA34821-4	J0977586.D	94	84	107	110
FA34821-5	J0977511.D	103	118	104	101
FA34821-6	J0977588.D	92	86	108	116
FA34821-6	J0977512.D	104	119	104	104
FA34821-7	J0977513.D	105	121	108	100
FA34821-8	J0977470.D	106	115	103	98
FA34821-6MS	J0977605.D	93	85	100	103
FA34821-6MSD	J0977606.D	96	85	107	110
FA34926-1MS	J0977483.D	102	120	111	99
FA34926-1MSD	J0977484.D	115	113	98	101
FA34926-9MS	J0977515.D	107	127*	103	100
FA34926-9MSD	J0977516.D	104	125	102	98
VJ5346-BS	J0977463.D	104	112	103	103
VJ5346-MB	J0977464.D	96	110	94	113
VJ5348-BS	J0977493.D	95	103	101	107
VJ5348-MB	J0977494.D	94	98	101	103
VJ5352-BS	J0977584.D	99	88	101	104
VJ5352-MB	J0977585.D	100	90	98	112

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: FA34821
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5340-ICC5340
Lab FileID: J0977356.D

Response Factor Report MSVOA6

```
Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Calibration Files
1   =J0977352.D  2   =J0977353.D  3   =J0977354.D  4   =J0977355.D
5   =J0977356.D  6   =J0977357.D  7   =J0977358.D

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

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.330 0.371 0.356 0.336 0.391 0.309 0.319 0.345   8.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9929
              Response Ratio = 0.00000 + 0.36915 *A + -0.02742 *A^2

3)P Chloromethane     0.279 0.427 0.370 0.343 0.396 0.322 0.335 0.353  13.89
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9942
              Response Ratio = 0.00000 + 0.37269 *A + -0.02114 *A^2

4)C Vinyl Chloride    0.325 0.386 0.376 0.344 0.387 0.314 0.322 0.351   9.11
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9948
              Response Ratio = 0.00000 + 0.37340 *A + -0.02817 *A^2

5)  1,3-Butadiene     0.206 0.253 0.310 0.252 0.259 0.249 0.225 0.251  12.76
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.28358 *A + -0.02830 *A^2

6)  Bromomethane      0.333 0.349 0.277 0.275 0.318 0.267 0.255 0.296  12.32
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9966
              Response Ratio = 0.00000 + 0.31804 *A + -0.03206 *A^2

7)  Chloroethane      0.163 0.249 0.206 0.219 0.247 0.197 0.172 0.208  16.23
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9958
              Response Ratio = 0.00000 + 0.26390 *A + -0.04586 *A^2

8)  Trichlorofluorome 0.536 0.668 0.621 0.570 0.655 0.545 0.557 0.593   9.14
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9957
              Response Ratio = 0.00000 + 0.62587 *A + -0.03761 *A^2

9)  Ethyl Ether       0.253 0.226 0.229 0.241 0.234 0.239 0.243 0.238   3.89
10)  1,2-Dichlorotrifl 0.298 0.310 0.325 0.305 0.301 0.304 0.292 0.305   3.49
11)C 1,1-Dichloroethen 0.398 0.409 0.459 0.436 0.433 0.439 0.401 0.425   5.35
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.47098 *A + -0.03302 *A^2

12)  Freon 113        0.146 0.251 0.286 0.264 0.266 0.265 0.246 0.246  18.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.28376 *A + -0.01778 *A^2

13)  Carbon Disulfide  0.837 0.821 0.840 0.853 0.823 0.867 0.816 0.837   2.23
14)  Iodomethane       0.562 0.409 0.418 0.422 0.402 0.408 0.394 0.431  13.58
15)  Allyl chloride    0.368 0.336 0.458 0.382 0.389 0.390 0.371 0.385   9.65
16)  Methylene Chlorid 0.376 0.436 0.437 0.400 0.383 0.395 0.384 0.402   6.28
17)  Acetone           0.015 0.019 0.015 0.015 0.017 0.018 0.017 0.017  11.32
18)  Methyl acetate    0.028 0.030 0.033 0.029 0.030 0.032 0.032 0.030   5.40
19)  trans-1,2-Dichlor 0.345 0.349 0.399 0.389 0.383 0.386 0.363 0.373   5.66
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20)  Hexane            0.277 0.236 0.233 0.258 0.247 0.256 0.242 0.250   6.12
21)  Methyl Tert Butyl 0.924 0.809 0.788 0.809 0.761 0.792 0.771 0.808   6.72
22)  Acetonitrile      0.006 0.014 0.015 0.012 0.012 0.012       0.012  24.50
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.01258 *A + -0.00002 *A^2

23)  Di-isopropyl ethe 0.921 1.017 0.988 1.008 0.945 0.970 0.934 0.969   3.83
24)  Chloroprene       0.376 0.411 0.570 0.484 0.523 0.503 0.477 0.478  13.82
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.53791 *A + -0.02944 *A^2

25)P 1,1-Dichloroethan 0.434 0.531 0.533 0.514 0.499 0.513 0.498 0.503   6.64
26)  Acrylonitrile     0.071 0.078 0.070 0.072 0.073 0.071 0.071 0.072   3.68
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.07366 *A + -0.00031 *A^2

27)  ETBE              1.042 1.048 1.022 1.021 0.980 0.996 0.987 1.014   2.64
28)  Vinyl acetate     0.432 0.557 0.551 0.567 0.555 0.546 0.525 0.533   8.71
29)  cis-1,2-Dichloroe 0.350 0.273 0.293 0.336 0.295 0.308 0.295 0.307   8.78
30)  2,2-Dichloropropa 0.417 0.399 0.426 0.463 0.422 0.435 0.413 0.425   4.76
31)  Bromochloromethan 0.136 0.143 0.142 0.130 0.128 0.132 0.131 0.135   4.51
32)  Cyclohexane       0.465 0.466 0.503 0.479 0.482 0.467 0.443 0.472   3.99
33)C Chloroform        0.740 0.554 0.564 0.597 0.538 0.560 0.535 0.584  12.30
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.58251 *A + -0.02290 *A^2

34)  Ethyl acetate     0.185 0.212 0.187 0.190 0.198 0.193 0.193 0.194   4.65
35)  Tetrahydrofuran   0.050 0.085 0.060 0.059 0.054 0.055 0.056 0.060  19.38
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.05579 *A + 0.00001 *A^2

36)S Dibromofluorometh 0.273 0.262 0.270 0.261 0.259 0.264 0.253 0.263   2.50
37)  Carbon Tetrachlor 0.414 0.407 0.420 0.407 0.417 0.412 0.397 0.411   1.87
38)  1,1,1-Trichloroet 0.495 0.468 0.547 0.520 0.508 0.515 0.480 0.505   5.24
39)  2-Butanone        0.068 0.079 0.073 0.074 0.081 0.081 0.078 0.076   6.41
40)  1,1-Dichloroprope 0.334 0.347 0.401 0.396 0.366 0.372 0.356 0.368   6.73
41)  tert-Butyl Format 0.127 0.145 0.149 0.178 0.178 0.178 0.184 0.163  13.62
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.17009 *A + 0.00066 *A^2

42)  Propionitrile     0.026 0.026 0.030 0.027 0.026 0.027 0.027 0.027   6.24
43)  Methacrylonitrile 0.105 0.123 0.138 0.120 0.128 0.127 0.121 0.123   7.96
44)  Benzene           1.069 1.030 1.064 1.031 0.995 1.019 0.992 1.029   2.91
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 1.03527 *A + -0.02006 *A^2

45)  TAME              0.998 0.828 0.759 0.791 0.756 0.789 0.763 0.812  10.57
46)S 1,2-Dichloroethan 0.354 0.404 0.396 0.379 0.398 0.384 0.373 0.384   4.52
47)  1,2-Dichloroethan 0.615 0.499 0.468 0.481 0.441 0.454 0.434 0.485  12.71
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.47541 *A + -0.01992 *A^2

48)  Trichloroethene   0.284 0.258 0.291 0.289 0.272 0.282 0.269 0.278   4.37
49)  Methylcyclohexane 0.630 0.459 0.458 0.477 0.461 0.464 0.441 0.484  13.40
50)  Dibromomethane    0.225 0.147 0.154 0.172 0.148 0.160 0.163 0.167  16.24
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 0.15215 *A + 0.00544 *A^2

51)C 1,2-Dichloropropa 0.283 0.259 0.271 0.276 0.266 0.274 0.267 0.271   2.89
52)  Bromodichlorometh 0.426 0.415 0.414 0.431 0.411 0.414 0.402 0.416   2.29
```

Initial Calibration Summary

Job Number: FA34821 **Sample:** VJ5340-ICC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977356.D
Project: BMSMC, Building 5 Area, Humacao, PR

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53)  Methyl methacryla 0.090 0.179 0.201 0.167 0.193 0.197 0.188 0.174  22.33
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9981
              Response Ratio = 0.00000 + 0.19190 *A + -0.00099 *A^2

54)  2-Chloroethyl vin       0.134 0.146 0.145 0.147 0.150 0.147 0.145   3.69
55)  cis-1,3-Dichlorop 0.485 0.462 0.458 0.443 0.418 0.447 0.430 0.449   4.96

56) I   Chlorobenzene-d5      ----------------ISTD--------------------
57)S Toluene-d8        1.326 1.383 1.322 1.355 1.300 1.273 1.292 1.322   2.85
58)C Toluene           1.966 1.600 1.567 1.626 1.463 1.523 1.434 1.597  11.09
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 1.60620 *A + -0.08260 *A^2

59)  2-Nitropropane    0.089 0.092 0.088 0.095 0.085 0.087 0.086 0.089   3.93
60)  4-Methyl-2-pentan 0.229 0.233 0.231 0.257 0.264 0.262 0.259 0.248   6.40
61)  trans-1,3-Dichlor 0.556 0.505 0.525 0.562 0.508 0.520 0.523 0.528   4.21
62)  Tetrachloroethene 0.363 0.379 0.370 0.422 0.383 0.396 0.373 0.384   5.15
63)  Ethyl methacrylat 0.378 0.351 0.420 0.406 0.387 0.405 0.394 0.392   5.71
64)  1,1,2-Trichloroet 0.342 0.306 0.261 0.285 0.235 0.249 0.238 0.274  14.45
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9976
              Response Ratio = 0.00000 + 0.26411 *A + -0.01288 *A^2

65)  Dibromochlorometh 0.454 0.392 0.347 0.364 0.351 0.362 0.353 0.375  10.15
66)  1,3-Dichloropropa 0.657 0.615 0.552 0.607 0.513 0.531 0.528 0.572   9.51
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
              Response Ratio = 0.00000 + 0.55152 *A + -0.01279 *A^2

67)  1,2-Dibromoethane 0.405 0.368 0.336 0.315 0.297 0.303 0.299 0.332  12.34
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.30968 *A + -0.00535 *A^2

68)  2-hexanone        0.150 0.146 0.173 0.174 0.177 0.179 0.180 0.168   8.51
69)  1-Chlorohexane    0.495 0.506 0.485 0.537 0.497 0.498 0.471 0.498   4.11
70)C Ethylbenzene      2.081 1.847 1.854 1.972 1.760 1.804 1.740 1.866   6.52
71)P Chlorobenzene     1.571 1.099 0.994 1.048 0.964 0.948 0.925 1.079  20.91
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 1.02198 *A + -0.04939 *A^2

72)  1,1,1,2-Tetrachlo 0.505 0.342 0.357 0.387 0.328 0.340 0.346 0.372  16.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
              Response Ratio = 0.00000 + 0.34365 *A + 0.00041 *A^2

73)  m,p-Xylene        1.622 1.479 1.430 1.513 1.368 1.378 1.305 1.442   7.34
74)  o-Xylene          1.937 1.534 1.506 1.615 1.438 1.475 1.421 1.561  11.40
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 1.55299 *A + -0.06499 *A^2

75)  Styrene           1.273 1.173 1.066 1.159 1.072 1.081 1.060 1.126   7.05
76)P Bromoform         0.269 0.212 0.199 0.219 0.205 0.206 0.214 0.218  10.86
77)  Isopropylbenzene  1.874 1.787 1.736 1.866 1.669 1.693 1.635 1.751   5.40

78) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
79)S 4-Bromofluorobenz 0.826 0.965 0.995 0.935 0.978 0.947 1.079 0.961   7.87
80)  cis-1,4-Dichloro- 0.139 0.251 0.263 0.244 0.247 0.257 0.271 0.239  18.82
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.23269 *A + 0.01883 *A^2

81)  n-Propylbenzene   4.501 3.909 3.999 4.106 3.802 3.865 3.728 3.987   6.48
82)  Bromobenzene      1.063 0.861 0.789 0.752 0.752 0.805 0.744 0.824  13.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9979
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                Response Ratio = 0.00000 + 0.80766 *A + -0.02731 *A^2

 83)P 1,1,2,2-Tetrachlo 0.953 0.787 0.680 0.730 0.667 0.677 0.693 0.741  13.79
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
                Response Ratio = 0.00000 + 0.67635 *A + 0.00667 *A^2

 84)  1,3,5-Trimethylbe 3.087 2.710 3.084 3.078 2.860 2.936 2.984 2.963   4.75
 85)  2-Chlorotoluene   3.053 2.820 2.750 2.819 2.672 2.726 2.711 2.793   4.55
 86)  trans-1,4-Dichlor 0.092 0.215 0.222 0.215 0.224 0.236 0.212 0.202  24.33
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9970
                Response Ratio = 0.00000 + 0.24228 *A + -0.01351 *A^2

 87)  1,2,3-Trichloropr 0.295 0.241 0.197 0.212 0.207 0.193 0.204 0.221  16.31
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
                Response Ratio = 0.00000 + 0.19993 *A + 0.00082 *A^2

 88)  Cyclohexanone     0.045 0.015 0.014 0.018 0.018 0.016 0.017 0.020  53.03
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9977
                Response Ratio = 0.00000 + 0.01661 *A + 0.00007 *A^2

 89)  4-Chlorotoluene   3.173 2.691 2.668 2.699 2.476 2.552 2.325 2.655  10.01
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
                Response Ratio = 0.00000 + 2.77661 *A + -0.21636 *A^2

 90)  a-Methyl Styrene  1.087 1.279 1.640 1.395 1.493 1.497 1.520 1.416  12.92
 91)  tert-Butylbenzene 2.024 1.739 1.687 1.749 1.645 1.700 1.528 1.725   8.77
 92)  1,2,4-Trimethylbe 3.404 2.994 3.074 2.984 2.880 2.930 2.685 2.993   7.30
 93)  Pentachloroethane 0.436 0.426 0.519 0.434 0.456 0.458 0.431 0.451   7.18
 94)  sec-Butylbenzene  3.837 3.468 3.580 3.619 3.413 3.473 3.422 3.544   4.24
 95)  4-Isopropyltoluen 3.383 2.969 3.008 3.079 2.902 2.951 2.720 3.002   6.72
 96)  1,3-Dichlorobenze 2.057 1.472 1.418 1.472 1.379 1.404 1.338 1.506  16.45
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 1.47589 *A + -0.06648 *A^2

 97)  1,4-Dichlorobenze 2.240 1.519 1.497 1.455 1.367 1.449 1.332 1.551  20.03
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
                Response Ratio = 0.00000 + 1.51012 *A + -0.08220 *A^2

 98)  n-Butylbenzene    1.733 1.656 1.695 1.779 1.717 1.763 1.659 1.715   2.80
 99)  Benzyl Chloride   0.309 0.219 0.207 0.236 0.252 0.249 0.274 0.249  13.75
100)  1,2-Dichlorobenze 2.085 1.440 1.364 1.397 1.314 1.353 1.358 1.473  18.50
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 1.34041 *A + 0.00824 *A^2

101)  1,2-Dibromo-3-Chl 0.103 0.125 0.121 0.125 0.117 0.115 0.123 0.118   6.46
102)  Hexachlorobutadie 0.599 0.590 0.547 0.597 0.540 0.580 0.617 0.581   4.83
103)  1,2,4-Trichlorobe 1.290 1.079 1.057 1.046 0.980 1.004 1.089 1.078   9.39
104)  Naphthalene       1.981 1.550 1.578 1.692 1.664 1.663 1.953 1.726  10.00
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9974
                Response Ratio = 0.00000 + 1.39204 *A + 0.26638 *A^2

105)  1,2,3-Trichlorobe 1.133 0.810 0.832 0.833 0.824 0.836 0.905 0.882  13.04
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 0.76057 *A + 0.06925 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.117 0.151 0.120 0.134 0.136 0.125 0.130   9.69
108)  acrolein          1.998 2.788 3.036 3.014 2.479 2.603 2.561 2.640  13.52
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9976
```

```
                Response Ratio = 0.00000 + 2.73481 *A + -0.09087 *A^2

109)  Tert Butyl Alcoho 1.943 1.641 1.281 1.536 1.418 1.395 1.417 1.519  14.41
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
                Response Ratio = 0.00000 + 1.43641 *A + -0.00649 *A^2

110)  tert Amyl alcohol 1.241 1.078 0.992 1.203 1.082 1.102 1.110 1.115   7.45
111)  Isobutyl alcohol  0.238 0.351 0.470 0.443 0.421 0.428 0.422 0.396  19.83
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.43635 *A + -0.00182 *A^2

112)  1,4-Dioxane       0.260 0.144 0.127 0.127 0.131 0.123 0.125 0.148  33.69
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 0.12918 *A + -0.00065 *A^2

113)  3,3-Dimethyl-1-bu 0.774 0.823 0.816 1.124 1.035 1.056 1.143 0.967  16.29
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
                Response Ratio = 0.00000 + 0.96164 *A + 0.00871 *A^2

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

           MSJ062116a.M        Wed Jun 22 07:53:15 2016
```

Initial Calibration Verification

Job Number: FA34821 **Sample:** VJ5340-ICV5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977360.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\062116\J0977360.D          Vial: 1
Acq On    : 21 Jun 2016  11:51 am                    Operator: darshnap
Sample    : icv5340-5                                Inst    : MSVOA6
Misc      : MS34179,vj5340,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jun 22 07:48:34 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	108	0.00	7.74
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	37.005	7.5	89	-0.01	2.67
3 P	Chloromethane	40.000	37.784	5.5	92	0.00	2.89
4 C	Vinyl Chloride	40.000	37.167	7.1	91	0.00	3.03
5	1,3-Butadiene		----------NA----------				
6	Bromomethane	40.000	33.805	15.5	85	-0.01	3.44
7	Chloroethane	40.000	37.269	6.8	94	0.00	3.60
8	Trichlorofluoromethane	40.000	39.007	2.5	96	0.04	3.81
		AvgRF	CCRF	%Dev			
9	Ethyl Ether	0.238	0.221	7.1	102	0.00	4.11
10	1,2-Dichlorotrifluoroetha	0.305	0.358	-17.4	129	0.01	4.34
		Amount	Calc.	%Drift			
11 C	1,1-Dichloroethene	40.000	39.755	0.6	110	-0.01	4.38
12	Freon 113	40.000	40.307	-0.8	110	0.00	4.44
		AvgRF	CCRF	%Dev			
13	Carbon Disulfide	0.837	0.904	-8.0	119	-0.01	4.46
14	Iodomethane	0.431	0.395	8.4	106	-0.01	4.57
15	Allyl chloride	0.385	0.356	7.5	99	0.00	4.91
16	Methylene Chloride	0.402	0.403	-0.2	114	0.00	5.03
17	Acetone	0.017	0.018	-5.9	114	0.00	5.05
18	Methyl acetate	0.030	0.031	-3.3	115	0.00	5.18
19	trans-1,2-Dichloroethene	0.373	0.424	-13.7	120	-0.01	5.21
20	Hexane	0.250	0.267	-6.8	117	0.00	5.28
21	Methyl Tert Butyl Ether	0.808	0.739	8.5	105	0.00	5.32
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	359.577	10.1	98	0.00	5.57
		AvgRF	CCRF	%Dev			
23	Di-isopropyl ether	0.969	0.932	3.8	107	0.00	5.71
		Amount	Calc.	%Drift			
24	Chloroprene	40.000	34.930	12.7	93	0.00	5.86
		AvgRF	CCRF	%Dev			
25 P	1,1-Dichloroethane	0.503	0.538	-7.0	117	0.00	5.88

Initial Calibration Verification

Job Number: FA34821 **Sample:** VJ5340-ICV5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977360.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
26		Acrylonitrile	200.000	205.538	-2.8	110	0.00	5.91
			AvgRF	CCRF	%Dev			
27		ETBE	1.014	0.938	7.5	103	0.00	6.10
28		Vinyl acetate	0.533	0.462	13.3	90	0.00	6.09
29		cis-1,2-Dichloroethene	0.307	0.306	0.3	112	0.00	6.46
30		2,2-Dichloropropane	0.425	0.458	-7.8	117	0.00	6.59
31		Bromochloromethane	0.135	0.132	2.2	111	0.00	6.67
32		Cyclohexane	0.472	0.489	-3.6	110	0.00	6.71
			Amount	Calc.	%Drift			
33	C	Chloroform	40.000	38.709	3.2	110	0.00	6.72
			AvgRF	CCRF	%Dev			
34		Ethyl acetate	0.194	0.190	2.1	104	0.00	6.79
			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	36.021	9.9	101	0.00	6.91
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.263	0.267	-1.5	112	0.00	6.91
37		Carbon Tetrachloride	0.411	0.428	-4.1	111	0.00	6.92
38		1,1,1-Trichloroethane	0.505	0.498	1.4	106	0.00	6.98
39		2-Butanone	0.076	0.080	-5.3	107	0.00	7.01
40		1,1-Dichloropropene	0.368	0.364	1.1	107	0.00	7.09
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	445.905	-11.5	119	0.00	7.18
			AvgRF	CCRF	%Dev			
42		Propionitrile	0.027	0.027	0.0	114	0.00	7.32
43		Methacrylonitrile	0.123	0.123	0.0	104	0.00	7.35
			Amount	Calc.	%Drift			
44		Benzene	40.000	40.426	-1.1	112	0.00	7.34
			AvgRF	CCRF	%Dev			
45		TAME	0.812	0.726	10.6	104	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.384	0.392	-2.1	106	0.00	7.46
			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	37.582	6.0	106	0.00	7.53
			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.278	0.277	0.4	110	0.00	7.92
49		Methylcyclohexane	0.484	0.481	0.6	113	0.00	7.94
			Amount	Calc.	%Drift			
50		Dibromomethane	40.000	41.369	-3.4	118	0.00	8.35
			AvgRF	CCRF	%Dev			
51	C	1,2-Dichloropropane	0.271	0.275	-1.5	112	0.00	8.43
52		Bromodichloromethane	0.416	0.388	6.7	102	0.00	8.48
			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	41.882	-4.7	112	0.00	8.58
			AvgRF	CCRF	%Dev			
54		2-Chloroethyl vinyl ether	0.145	0.154	-6.2	113	0.00	8.99

Initial Calibration Verification

Job Number: FA34821 **Sample:** VJ5340-ICV5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977360.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.449	0.429	4.5	111	0.00	9.10
56	I	Chlorobenzene-d5	1.000	1.000	0.0	108	0.00	10.83
57	S	Toluene-d8	1.322	1.342	-1.5	112	0.00	9.29
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	38.551	3.6	110	0.00	9.34
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.089	0.079	11.2	100	0.00	9.54
60		4-Methyl-2-pentanone	0.248	0.256	-3.2	105	0.00	9.66
61		trans-1,3-Dichloropropene	0.528	0.564	-6.8	120	0.00	9.72
62		Tetrachloroethene	0.384	0.363	5.5	103	0.00	9.74
63		Ethyl methacrylate	0.392	0.340	13.3	95	0.00	9.83
		----------	Amount	Calc.	%Drift	----------		
64		1,1,2-Trichloroethane	40.000	39.081	2.3	114	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
65		Dibromochloromethane	0.375	0.333	11.2	103	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
66		1,3-Dichloropropane	40.000	37.176	7.1	106	0.00	10.17
67		1,2-Dibromoethane	40.000	39.926	0.2	111	0.00	10.35
		----------	AvgRF	CCRF	%Dev	----------		
68		2-hexanone	0.168	0.180	-7.1	110	0.00	10.48
69		1-Chlorohexane	0.498	0.502	-0.8	109	0.00	10.78
70	C	Ethylbenzene	1.866	1.804	3.3	111	0.00	10.85
		----------	Amount	Calc.	%Drift	----------		
71	P	Chlorobenzene	40.000	39.454	1.4	109	0.00	10.85
72		1,1,1,2-Tetrachloroethane	40.000	43.813	-9.5	124	0.00	10.90
		----------	AvgRF	CCRF	%Dev	----------		
73		m,p-Xylene	1.442	1.409	2.3	111	0.00	10.98
		----------	Amount	Calc.	%Drift	----------		
74		o-Xylene	40.000	38.440	3.9	109	0.00	11.42
		----------	AvgRF	CCRF	%Dev	----------		
75		Styrene	1.126	1.071	4.9	108	0.00	11.47
76	P	Bromoform	0.218	0.202	7.3	107	0.00	11.54
77		Isopropylbenzene	1.751	1.788	-2.1	116	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00	13.19
79	S	4-Bromofluorobenzene	0.961	0.946	1.6	105	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	34.319	14.2	92	0.00	12.07
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.987	4.066	-2.0	116	0.00	12.15
		----------	Amount	Calc.	%Drift	----------		
82		Bromobenzene	40.000	38.476	3.8	109	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	40.000	39.686	0.8	110	0.00	12.21
		----------	AvgRF	CCRF	%Dev	----------		
84		1,3,5-Trimethylbenzene	2.963	2.867	3.2	109	0.00	12.33

Initial Calibration Verification

Job Number: FA34821 **Sample:** VJ5340-ICV5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977360.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.793	2.693	3.6	109	0.00	12.34
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	37.212	7.0	104	0.00	12.39
87	1,2,3-Trichloropropane	40.000	39.537	1.2	104	0.00	12.36
88	Cyclohexanone	200.000	256.081	-28.0#	134	0.00	12.44
89	4-Chlorotoluene	40.000	38.784	3.0	111	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.416	0.021	98.5#	2#	0.08	12.68
91	tert-Butylbenzene	1.725	1.684	2.4	111	0.00	12.67
92	1,2,4-Trimethylbenzene	2.993	2.874	4.0	108	0.00	12.74
93	Pentachloroethane	0.451	0.493	-9.3	117	0.00	12.72
94	sec-Butylbenzene	3.544	3.656	-3.2	116	0.00	12.86
95	4-Isopropyltoluene	3.002	3.018	-0.5	113	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	40.271	-0.7	113	0.00	13.12
97	1,4-Dichlorobenzene	40.000	39.320	1.7	113	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.715	1.760	-2.6	111	0.00	13.42
99	Benzyl Chloride	0.249	0.243	2.4	105	0.00	13.43
	----------	Amount	Calc.	%Drift		----------	
100	1,2-Dichlorobenzene	40.000	38.978	2.6	108	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.118	0.112	5.1	104	0.00	14.37
102	Hexachlorobutadiene	0.581	0.584	-0.5	117	0.00	14.91
103	1,2,4-Trichlorobenzene	1.078	0.991	8.1	110	0.00	14.96
	----------	Amount	Calc.	%Drift		----------	
104	Naphthalene	40.000	42.726	-6.8	113	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	39.844	0.4	107	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	110	-0.01	5.28
107	Ethanol	0.130	0.132	-1.5	109	0.00	4.27
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	182.258	8.9	108	0.00	4.74
109	Tert Butyl Alcohol	400.000	352.318	11.9	98	0.00	5.37
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.115	0.925	17.0	94	0.00	7.56
	----------	Amount	Calc.	%Drift		----------	
111	Isobutyl alcohol	800.000	740.909	7.4	104	0.00	7.44
112	1,4-Dioxane	800.000	724.635	9.4	97	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	2052.828	-2.6	113	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977356.D MSJ062116a.M Wed Jun 22 07:52:59 2016

6.7.2 6

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5345-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977462.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\062316\J0977462.D          Vial: 1
Acq On    : 23 Jun 2016   9:30 am                     Operator: darshnap
Sample    : cc5340-5                                  Inst    : MSVOA6
Misc      : MS34215,vj5345,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jun 22 07:48:34 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	85	0.00	7.74
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	33.954	15.1	65	-0.01	2.67
3	P	Chloromethane	40.000	39.454	1.4	75	0.00	2.89
4	C	Vinyl Chloride	40.000	37.811	5.5	73	0.00	3.03
5		1,3-Butadiene	40.000	43.174	-7.9	92	0.00	3.03
6		Bromomethane	40.000	40.680	-1.7	79	0.00	3.45
7		Chloroethane	40.000	39.644	0.9	78	0.00	3.60
8		Trichlorofluoromethane	40.000	44.177	-10.4	85	0.04	3.81
			AvgRF	CCRF	%Dev			
9		Ethyl Ether	0.238	0.270	-13.4	98	-0.02	4.10
10		1,2-Dichlorotrifluoroetha	0.305	0.330	-8.2	93	0.02	4.35
			Amount	Calc.	%Drift			
11	C	1,1-Dichloroethene	40.000	41.634	-4.1	91	0.00	4.38
12		Freon 113	40.000	40.571	-1.4	87	0.00	4.45
			AvgRF	CCRF	%Dev			
13		Carbon Disulfide	0.837	0.904	-8.0	93	0.00	4.46
14		Iodomethane	0.431	0.417	3.2	88	0.00	4.57
15		Allyl chloride	0.385	0.424	-10.1	93	0.00	4.91
16		Methylene Chloride	0.402	0.484	-20.4#	108	0.00	5.03
17		Acetone	0.017	0.018	-5.9	89	0.00	5.05
18		Methyl acetate	0.030	0.028	6.7	80	0.00	5.18
19		trans-1,2-Dichloroethene	0.373	0.387	-3.8	86	-0.01	5.21
20		Hexane	0.250	0.287	-14.8	99	0.00	5.28
21		Methyl Tert Butyl Ether	0.808	0.806	0.2	90	0.00	5.33
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	447.723	-11.9	96	0.00	5.58
			AvgRF	CCRF	%Dev			
23		Di-isopropyl ether	0.969	1.016	-4.9	91	0.00	5.71
			Amount	Calc.	%Drift			
24		Chloroprene	40.000	41.864	-4.7	87	-0.01	5.85
			AvgRF	CCRF	%Dev			
25	P	1,1-Dichloroethane	0.503	0.535	-6.4	91	0.00	5.89

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5345-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977462.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
26		Acrylonitrile	200.000	194.396	2.8	82	0.00	5.91
			AvgRF	CCRF	%Dev			
27		ETBE	1.014	1.047	-3.3	91	0.00	6.11
28		Vinyl acetate	0.533	0.602	-12.9	92	0.00	6.09
29		cis-1,2-Dichloroethene	0.307	0.289	5.9	83	0.00	6.46
30		2,2-Dichloropropane	0.425	0.456	-7.3	92	0.00	6.59
31		Bromochloromethane	0.135	0.127	5.9	84	0.00	6.67
32		Cyclohexane	0.472	0.482	-2.1	85	0.00	6.72
			Amount	Calc.	%Drift			
33	C	Chloroform	40.000	40.622	-1.6	90	0.00	6.72
			AvgRF	CCRF	%Dev			
34		Ethyl acetate	0.194	0.213	-9.8	92	0.00	6.79
			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	44.467	-11.2	98	-0.01	6.90
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.263	0.274	-4.2	90	0.00	6.91
37		Carbon Tetrachloride	0.411	0.425	-3.4	87	0.00	6.92
38		1,1,1-Trichloroethane	0.505	0.550	-8.9	92	0.00	6.98
39		2-Butanone	0.076	0.084	-10.5	88	0.00	7.01
40		1,1-Dichloropropene	0.368	0.398	-8.2	92	0.00	7.09
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	384.386	3.9	81	0.00	7.18
			AvgRF	CCRF	%Dev			
42		Propionitrile	0.027	0.026	3.7	86	0.00	7.31
43		Methacrylonitrile	0.123	0.130	-5.7	87	0.00	7.34
			Amount	Calc.	%Drift			
44		Benzene	40.000	39.628	0.9	86	0.00	7.35
			AvgRF	CCRF	%Dev			
45		TAME	0.812	0.796	2.0	90	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.384	0.425	-10.7	91	0.00	7.46
			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	45.619	-14.0	100	0.00	7.53
			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.278	0.283	-1.8	88	0.00	7.92
49		Methylcyclohexane	0.484	0.499	-3.1	92	0.00	7.95
			Amount	Calc.	%Drift			
50		Dibromomethane	40.000	41.825	-4.6	94	0.00	8.34
			AvgRF	CCRF	%Dev			
51	C	1,2-Dichloropropane	0.271	0.266	1.8	85	0.00	8.43
52		Bromodichloromethane	0.416	0.425	-2.2	88	0.00	8.48
			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	41.423	-3.6	87	0.00	8.57
			AvgRF	CCRF	%Dev			
54		2-Chloroethyl vinyl ether	0.145	0.159	-9.7	92	0.00	8.99

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5345-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977462.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.449	0.442	1.6	90	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00	10.83
57	S	Toluene-d8	1.322	1.326	-0.3	85	0.00	9.29
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	39.737	0.7	87	0.00	9.34
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.089	0.103	-15.7	100	0.00	9.54
60		4-Methyl-2-pentanone	0.248	0.293	-18.1	92	0.00	9.66
61		trans-1,3-Dichloropropene	0.528	0.584	-10.6	95	0.00	9.72
62		Tetrachloroethene	0.384	0.387	-0.8	84	0.00	9.74
63		Ethyl methacrylate	0.392	0.397	-1.3	85	0.00	9.83
		----------	Amount	Calc.	%Drift	----------		
64		1,1,2-Trichloroethane	40.000	41.981	-5.0	94	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
65		Dibromochloromethane	0.375	0.387	-3.2	92	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
66		1,3-Dichloropropane	40.000	42.871	-7.2	94	0.00	10.17
67		1,2-Dibromoethane	40.000	41.643	-4.1	89	0.00	10.34
		----------	AvgRF	CCRF	%Dev	----------		
68		2-hexanone	0.168	0.207	-23.2#	97	0.00	10.47
69		1-Chlorohexane	0.498	0.544	-9.2	91	0.00	10.78
70	C	Ethylbenzene	1.866	1.999	-7.1	94	0.00	10.85
		----------	Amount	Calc.	%Drift	----------		
71	P	Chlorobenzene	40.000	41.447	-3.6	88	0.00	10.85
72		1,1,1,2-Tetrachloroethane	40.000	41.328	-3.3	90	0.00	10.90
		----------	AvgRF	CCRF	%Dev	----------		
73		m,p-Xylene	1.442	1.515	-5.1	92	0.00	10.98
		----------	Amount	Calc.	%Drift	----------		
74		o-Xylene	40.000	39.767	0.6	86	0.00	11.42
		----------	AvgRF	CCRF	%Dev	----------		
75		Styrene	1.126	1.069	5.1	83	0.00	11.47
76	P	Bromoform	0.218	0.211	3.2	85	0.00	11.53
77		Isopropylbenzene	1.751	1.710	2.3	85	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.00	13.19
79	S	4-Bromofluorobenzene	0.961	1.071	-11.4	90	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	42.250	-5.6	88	0.00	12.07
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.987	4.239	-6.3	92	0.00	12.15
		----------	Amount	Calc.	%Drift	----------		
82		Bromobenzene	40.000	40.812	-2.0	88	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	40.000	41.881	-4.7	88	0.00	12.21
		----------	AvgRF	CCRF	%Dev	----------		
84		1,3,5-Trimethylbenzene	2.963	3.163	-6.7	91	0.00	12.33

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5345-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977462.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.793	2.965	-6.2	92	0.00	12.34
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	48.022	-20.1#	101	0.00	12.38
87	1,2,3-Trichloropropane	40.000	42.548	-6.4	85	0.00	12.36
88	Cyclohexanone	200.000	218.199	-9.1	86	0.00	12.43
89	4-Chlorotoluene	40.000	43.516	-8.8	94	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.416	1.568	-10.7	87	0.00	12.59
91	tert-Butylbenzene	1.725	1.935	-12.2	97	0.00	12.67
92	1,2,4-Trimethylbenzene	2.993	3.201	-6.9	92	0.00	12.74
93	Pentachloroethane	0.451	0.462	-2.4	84	0.00	12.72
94	sec-Butylbenzene	3.544	3.823	-7.9	93	0.00	12.86
95	4-Isopropyltoluene	3.002	2.961	1.4	84	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	39.847	0.4	85	0.00	13.12
97	1,4-Dichlorobenzene	40.000	40.029	-0.1	87	0.00	13.21
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.715	1.835	-7.0	88	0.00	13.42
99	Benzyl Chloride	0.249	0.260	-4.4	85	0.00	13.43
	----------	Amount	Calc.	%Drift		----------	
100	1,2-Dichlorobenzene	40.000	41.049	-2.6	87	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.118	0.138	-16.9	97	0.00	14.37
102	Hexachlorobutadiene	0.581	0.570	1.9	87	0.00	14.91
103	1,2,4-Trichlorobenzene	1.078	1.072	0.6	90	0.00	14.96
	----------	Amount	Calc.	%Drift		----------	
104	Naphthalene	40.000	42.359	-5.9	85	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	41.219	-3.0	84	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	82	-0.01	5.28
107	Ethanol	0.130	0.141	-8.5	86	0.00	4.28
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	208.206	-4.1	91	0.00	4.75
109	Tert Butyl Alcohol	400.000	395.841	1.0	82	0.00	5.37
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.115	1.041	6.6	79	0.00	7.55
	----------	Amount	Calc.	%Drift		----------	
111	Isobutyl alcohol	800.000	841.752	-5.2	88	0.00	7.43
112	1,4-Dioxane	800.000	782.684	2.2	78	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	2212.644	-10.6	91	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977356.D MSJ062116a.M Fri Jun 24 08:51:24 2016

6.7.3

6

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5345-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977489.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\062316\J0977489.D          Vial: 24
Acq On    : 23 Jun 2016   7:57 pm                    Operator: darshnap
Sample    : ecc5340-5                                Inst    : MSVOA6
Misc      : MS34215,vj5345,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jun 22 07:48:34 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	115	0.00	7.74
		----------	Amount	Calc.	%Drift	----------		
2		Dichlorodifluoromethane	40.000	33.328	16.7	86	-0.02	2.66
3	P	Chloromethane	40.000	42.427	-6.1	109	0.00	2.89
4	C	Vinyl Chloride	40.000	41.270	-3.2	107	0.00	3.03
5		1,3-Butadiene	40.000	45.301	-13.3	130	0.00	3.03
6		Bromomethane	40.000	38.075	4.8	101	-0.01	3.44
7		Chloroethane	40.000	39.090	2.3	104	0.00	3.60
8		Trichlorofluoromethane	40.000	39.965	0.1	104	0.05	3.82
		----------	AvgRF	CCRF	%Dev	----------		
9		Ethyl Ether	0.238	0.251	-5.5	123	-0.02	4.10
10		1,2-Dichlorotrifluoroetha	0.305	0.332	-8.9	127	0.00	4.33
		----------	Amount	Calc.	%Drift	----------		
11	C	1,1-Dichloroethene	40.000	40.465	-1.2	119	0.00	4.38
12		Freon 113	40.000	38.747	3.1	113	0.00	4.44
		----------	AvgRF	CCRF	%Dev	----------		
13		Carbon Disulfide	0.837	0.859	-2.6	120	0.00	4.46
14		Iodomethane	0.431	0.398	7.7	114	0.00	4.57
15		Allyl chloride	0.385	0.407	-5.7	120	0.00	4.91
16		Methylene Chloride	0.402	0.439	-9.2	132	0.00	5.03
17		Acetone	0.017	0.020	-17.6	133	0.00	5.06
18		Methyl acetate	0.030	0.036	-20.0	138	-0.01	5.17
19		trans-1,2-Dichloroethene	0.373	0.381	-2.1	114	0.00	5.22
20		Hexane	0.250	0.289	-15.6	135	0.00	5.28
21		Methyl Tert Butyl Ether	0.808	0.750	7.2	113	0.00	5.32
		----------	Amount	Calc.	%Drift	----------		
22		Acetonitrile	400.000	436.389	-9.1	126	0.00	5.57
		----------	AvgRF	CCRF	%Dev	----------		
23		Di-isopropyl ether	0.969	0.985	-1.7	120	0.00	5.70
		----------	Amount	Calc.	%Drift	----------		
24		Chloroprene	40.000	38.404	4.0	109	0.00	5.86
		----------	AvgRF	CCRF	%Dev	----------		
25	P	1,1-Dichloroethane	0.503	0.506	-0.6	117	0.00	5.88

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5345-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977489.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
26		Acrylonitrile	200.000	217.601	-8.8	124	0.00	5.91
			AvgRF	CCRF	%Dev			
27		ETBE	1.014	0.996	1.8	117	0.00	6.11
28		Vinyl acetate	0.533	0.525	1.5	109	0.00	6.09
29		cis-1,2-Dichloroethene	0.307	0.296	3.6	115	0.00	6.46
30		2,2-Dichloropropane	0.425	0.357	16.0	97	0.00	6.59
31		Bromochloromethane	0.135	0.120	11.1	107	0.00	6.68
32		Cyclohexane	0.472	0.495	-4.9	118	0.00	6.72
			Amount	Calc.	%Drift			
33	C	Chloroform	40.000	37.443	6.4	113	-0.01	6.72
			AvgRF	CCRF	%Dev			
34		Ethyl acetate	0.194	0.206	-6.2	120	0.00	6.79
			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	47.951	-19.9	142	0.00	6.91
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.263	0.239	9.1	106	0.00	6.92
37		Carbon Tetrachloride	0.411	0.349	15.1	96	0.00	6.92
38		1,1,1-Trichloroethane	0.505	0.462	8.5	105	0.00	6.98
39		2-Butanone	0.076	0.086	-13.2	122	0.00	7.01
40		1,1-Dichloropropene	0.368	0.375	-1.9	118	0.00	7.09
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	273.154	31.7	77	0.00	7.18
			AvgRF	CCRF	%Dev			
42		Propionitrile	0.027	0.028	-3.7	123	0.00	7.32
43		Methacrylonitrile	0.123	0.132	-7.3	119	0.00	7.35
			Amount	Calc.	%Drift			
44		Benzene	40.000	39.337	1.7	116	0.00	7.35
			AvgRF	CCRF	%Dev			
45		TAME	0.812	0.726	10.6	110	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.384	0.363	5.5	105	0.00	7.46
			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	37.458	6.4	112	0.00	7.53
			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.278	0.287	-3.2	121	0.00	7.92
49		Methylcyclohexane	0.484	0.468	3.3	117	0.00	7.95
			Amount	Calc.	%Drift			
50		Dibromomethane	40.000	40.226	-0.6	122	0.00	8.34
			AvgRF	CCRF	%Dev			
51	C	1,2-Dichloropropane	0.271	0.279	-3.0	121	0.00	8.43
52		Bromodichloromethane	0.416	0.371	10.8	104	0.00	8.48
			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	42.512	-6.3	121	0.00	8.57
			AvgRF	CCRF	%Dev			
54		2-Chloroethyl vinyl ether	0.145	0.152	-4.8	119	0.00	8.99

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5345-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977489.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.449	0.409	8.9	113	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	111	0.00	10.84
57	S	Toluene-d8	1.322	1.353	-2.3	115	0.00	9.28
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	41.191	-3.0	120	0.00	9.34
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.089	0.089	0.0	115	0.00	9.54
60		4-Methyl-2-pentanone	0.248	0.302	-21.8	126	0.00	9.66
61		trans-1,3-Dichloropropene	0.528	0.515	2.5	112	0.00	9.72
62		Tetrachloroethene	0.384	0.517	-34.6	149	0.00	9.74
63		Ethyl methacrylate	0.392	0.425	-8.4	121	0.00	9.83
		----------	Amount	Calc.	%Drift	----------		
64		1,1,2-Trichloroethane	40.000	43.269	-8.2	129	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
65		Dibromochloromethane	0.375	0.339	9.6	107	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
66		1,3-Dichloropropane	40.000	41.451	-3.6	121	0.00	10.17
67		1,2-Dibromoethane	40.000	41.612	-4.0	118	0.00	10.35
		----------	AvgRF	CCRF	%Dev	----------		
68		2-hexanone	0.168	0.215	-28.0	134	0.00	10.48
69		1-Chlorohexane	0.498	0.521	-4.6	116	0.00	10.78
70	C	Ethylbenzene	1.866	1.851	0.8	116	0.00	10.85
		----------	Amount	Calc.	%Drift	----------		
71	P	Chlorobenzene	40.000	39.634	0.9	112	0.00	10.85
72		1,1,1,2-Tetrachloroethane	40.000	39.095	2.3	113	0.00	10.90
		----------	AvgRF	CCRF	%Dev	----------		
73		m,p-Xylene	1.442	1.403	2.7	113	0.00	10.98
		----------	Amount	Calc.	%Drift	----------		
74		o-Xylene	40.000	39.800	0.5	115	0.00	11.42
		----------	AvgRF	CCRF	%Dev	----------		
75		Styrene	1.126	1.067	5.2	110	0.00	11.47
76	P	Bromoform	0.218	0.188	13.8	101	0.00	11.53
77		Isopropylbenzene	1.751	1.742	0.5	115	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	111	0.00	13.19
79	S	4-Bromofluorobenzene	0.961	0.976	-1.6	111	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	37.538	6.2	104	0.00	12.08
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.987	3.868	3.0	113	0.00	12.15
		----------	Amount	Calc.	%Drift	----------		
82		Bromobenzene	40.000	36.979	7.6	108	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	40.000	41.847	-4.6	119	0.00	12.21
		----------	AvgRF	CCRF	%Dev	----------		
84		1,3,5-Trimethylbenzene	2.963	2.782	6.1	108	0.00	12.33

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5345-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977489.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.793	2.560	8.3	107	0.00	12.34
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	36.162	9.6	104	0.00	12.38
87	1,2,3-Trichloropropane	40.000	37.168	7.1	100	0.00	12.37
88	Cyclohexanone	200.000	203.923	-2.0	109	0.00	12.43
89	4-Chlorotoluene	40.000	35.635	10.9	105	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.416	1.386	2.1	103	0.00	12.59
91	tert-Butylbenzene	1.725	1.561	9.5	106	0.00	12.67
92	1,2,4-Trimethylbenzene	2.993	2.729	8.8	105	0.00	12.74
93	Pentachloroethane	0.451	0.186	58.8#	45#	0.00	12.72
94	sec-Butylbenzene	3.544	3.315	6.5	108	0.00	12.85
95	4-Isopropyltoluene	3.002	2.828	5.8	109	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	37.839	5.4	109	0.00	13.12
97	1,4-Dichlorobenzene	40.000	36.826	7.9	109	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.715	1.691	1.4	110	0.00	13.42
99	Benzyl Chloride	0.249	0.204	18.1	90	0.00	13.43
	----------	Amount	Calc.	%Drift		----------	
100	1,2-Dichlorobenzene	40.000	36.016	10.0	103	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.118	0.114	3.4	108	0.00	14.37
102	Hexachlorobutadiene	0.581	0.483	16.9	100	0.00	14.91
103	1,2,4-Trichlorobenzene	1.078	0.877	18.6	100	0.00	14.96
	----------	Amount	Calc.	%Drift		----------	
104	Naphthalene	40.000	38.641	3.4	103	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	37.235	6.9	102	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	117	0.00	5.29
107	Ethanol	0.130	0.154	-18.5	134	-0.02	4.26
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	201.089	-0.5	126	0.00	4.74
109	Tert Butyl Alcohol	400.000	393.216	1.7	115	0.00	5.37
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.115	1.037	7.0	112	0.00	7.56
	----------	Amount	Calc.	%Drift		----------	
111	Isobutyl alcohol	800.000	818.509	-2.3	122	0.00	7.43
112	1,4-Dioxane	800.000	821.721	-2.7	117	0.00	8.65
113	3,3-Dimethyl-1-butanol	2000.000	2174.834	-8.7	127	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977356.D MSJ062116a.M Fri Jun 24 08:53:37 2016

6.7.4 6

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5347-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977492.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\062416\J0977492.D          Vial: 1
Acq On    : 24 Jun 2016   8:51 am                    Operator: darshnap
Sample    : cc5340-5                                 Inst    : MSVOA6
Misc      : MS34215,vj5347,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jun 22 07:48:34 2016
Response via : Multiple Level Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1 I	Fluorobenzene	1.000	1.000	0.0	109	0.00	7.74
		Amount	Calc.	%Drift			
2	Dichlorodifluoromethane	40.000	29.970	25.1#	74	0.00	2.68
3 P	Chloromethane	40.000	40.566	-1.4	99	0.00	2.89
4 C	Vinyl Chloride	40.000	38.328	4.2	95	0.00	3.03
5	1,3-Butadiene	40.000	42.453	-6.1	116	0.00	3.03
6	Bromomethane	40.000	40.009	-0.0	100	0.00	3.46
7	Chloroethane	40.000	42.273	-5.7	105	0.00	3.60
8	Trichlorofluoromethane	40.000	39.504	1.2	98	-0.01	3.76
		AvgRF	CCRF	%Dev			
9	Ethyl Ether	0.238	0.269	-13.0	125	0.00	4.11
10	1,2-Dichlorotrifluoroetha	0.305	0.344	-12.8	125	0.02	4.34
		Amount	Calc.	%Drift			
11 C	1,1-Dichloroethene	40.000	43.564	-8.9	121	-0.01	4.38
12	Freon 113	40.000	42.653	-6.6	118	0.00	4.44
		AvgRF	CCRF	%Dev			
13	Carbon Disulfide	0.837	0.911	-8.8	121	0.00	4.47
14	Iodomethane	0.431	0.420	2.6	114	0.00	4.58
15	Allyl chloride	0.385	0.431	-11.9	121	0.00	4.91
16	Methylene Chloride	0.402	0.481	-19.7	137	0.00	5.03
17	Acetone	0.017	0.017	0.0	110	0.01	5.07
18	Methyl acetate	0.030	0.035	-16.7	129	0.00	5.18
19	trans-1,2-Dichloroethene	0.373	0.426	-14.2	122	0.00	5.22
20	Hexane	0.250	0.298	-19.2	132	0.00	5.28
21	Methyl Tert Butyl Ether	0.808	0.863	-6.8	124	0.00	5.33
		Amount	Calc.	%Drift			
22	Acetonitrile	400.000	444.535	-11.1	122	0.00	5.57
		AvgRF	CCRF	%Dev			
23	Di-isopropyl ether	0.969	1.167	-20.4#	135	0.00	5.70
		Amount	Calc.	%Drift			
24	Chloroprene	40.000	41.775	-4.4	112	0.00	5.86
		AvgRF	CCRF	%Dev			
25 P	1,1-Dichloroethane	0.503	0.561	-11.5	123	0.00	5.88

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5347-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977492.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
26		Acrylonitrile	200.000	238.817	-19.4	128	0.00	5.91
			AvgRF	CCRF	%Dev			
27		ETBE	1.014	1.084	-6.9	121	0.00	6.11
28		Vinyl acetate	0.533	0.643	-20.6#	126	0.00	6.09
29		cis-1,2-Dichloroethene	0.307	0.307	0.0	114	0.00	6.46
30		2,2-Dichloropropane	0.425	0.446	-4.9	115	0.00	6.59
31		Bromochloromethane	0.135	0.131	3.0	111	0.00	6.67
32		Cyclohexane	0.472	0.509	-7.8	115	0.00	6.72
			Amount	Calc.	%Drift			
33	C	Chloroform	40.000	40.923	-2.3	117	0.00	6.73
			AvgRF	CCRF	%Dev			
34		Ethyl acetate	0.194	0.221	-13.9	122	0.00	6.79
			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	49.570	-23.9#	140	0.00	6.91
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.263	0.258	1.9	109	0.00	6.91
37		Carbon Tetrachloride	0.411	0.398	3.2	104	0.00	6.92
38		1,1,1-Trichloroethane	0.505	0.508	-0.6	109	0.00	6.98
39		2-Butanone	0.076	0.084	-10.5	113	0.00	7.01
40		1,1-Dichloropropene	0.368	0.393	-6.8	117	0.00	7.09
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	365.427	8.6	98	0.00	7.18
			AvgRF	CCRF	%Dev			
42		Propionitrile	0.027	0.028	-3.7	119	0.00	7.32
43		Methacrylonitrile	0.123	0.135	-9.8	116	0.00	7.35
			Amount	Calc.	%Drift			
44		Benzene	40.000	42.845	-7.1	120	0.00	7.34
			AvgRF	CCRF	%Dev			
45		TAME	0.812	0.807	0.6	117	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.384	0.388	-1.0	106	0.00	7.46
			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	42.348	-5.9	120	0.00	7.53
			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.278	0.282	-1.4	113	0.00	7.92
49		Methylcyclohexane	0.484	0.497	-2.7	118	0.00	7.94
			Amount	Calc.	%Drift			
50		Dibromomethane	40.000	41.129	-2.8	118	0.00	8.34
			AvgRF	CCRF	%Dev			
51	C	1,2-Dichloropropane	0.271	0.283	-4.4	116	0.00	8.43
52		Bromodichloromethane	0.416	0.400	3.8	106	0.00	8.48
			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	40.777	-1.9	110	0.00	8.57
			AvgRF	CCRF	%Dev			
54		2-Chloroethyl vinyl ether	0.145	0.146	-0.7	108	0.00	8.99

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5347-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977492.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.449	0.433	3.6	113	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	102	0.00	10.83
57	S	Toluene-d8	1.322	1.317	0.4	104	0.00	9.29
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	42.037	-5.1	113	0.00	9.34
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.089	0.093	-4.5	112	0.00	9.54
60		4-Methyl-2-pentanone	0.248	0.278	-12.1	108	0.00	9.66
61		trans-1,3-Dichloropropene	0.528	0.552	-4.5	111	0.00	9.72
62		Tetrachloroethene	0.384	0.348	9.4	93	0.00	9.74
63		Ethyl methacrylate	0.392	0.406	-3.6	107	0.00	9.83
		----------	Amount	Calc.	%Drift	----------		
64		1,1,2-Trichloroethane	40.000	43.399	-8.5	120	0.00	9.89
		----------	AvgRF	CCRF	%Dev	----------		
65		Dibromochloromethane	0.375	0.371	1.1	109	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
66		1,3-Dichloropropane	40.000	42.613	-6.5	115	0.00	10.17
67		1,2-Dibromoethane	40.000	43.894	-9.7	116	0.00	10.35
		----------	AvgRF	CCRF	%Dev	----------		
68		2-hexanone	0.168	0.201	-19.6	117	0.00	10.47
69		1-Chlorohexane	0.498	0.534	-7.2	110	0.00	10.78
70	C	Ethylbenzene	1.866	1.964	-5.3	114	0.00	10.85
		----------	Amount	Calc.	%Drift	----------		
71	P	Chlorobenzene	40.000	43.000	-7.5	112	0.00	10.85
72		1,1,1,2-Tetrachloroethane	40.000	41.923	-4.8	113	0.00	10.90
		----------	AvgRF	CCRF	%Dev	----------		
73		m,p-Xylene	1.442	1.514	-5.0	113	0.00	10.98
		----------	Amount	Calc.	%Drift	----------		
74		o-Xylene	40.000	42.327	-5.8	113	0.00	11.42
		----------	AvgRF	CCRF	%Dev	----------		
75		Styrene	1.126	1.138	-1.1	109	0.00	11.47
76	P	Bromoform	0.218	0.209	4.1	104	0.00	11.54
77		Isopropylbenzene	1.751	1.809	-3.3	111	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.00	13.19
79	S	4-Bromofluorobenzene	0.961	1.004	-4.5	107	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	42.340	-5.9	111	0.00	12.08
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.987	4.184	-4.9	114	0.00	12.15
		----------	Amount	Calc.	%Drift	----------		
82		Bromobenzene	40.000	41.308	-3.3	112	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	40.000	46.229	-15.6	123	0.00	12.21
		----------	AvgRF	CCRF	%Dev	----------		
84		1,3,5-Trimethylbenzene	2.963	3.001	-1.3	109	0.00	12.33

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5347-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977492.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.793	2.939	-5.2	114	0.00	12.34
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	45.487	-13.7	121	0.00	12.39
87	1,2,3-Trichloropropane	40.000	41.924	-4.8	106	0.00	12.37
88	Cyclohexanone	200.000	226.721	-13.4	113	0.00	12.43
89	4-Chlorotoluene	40.000	42.223	-5.6	115	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.416	1.490	-5.2	104	0.00	12.59
91	tert-Butylbenzene	1.725	1.843	-6.8	116	0.00	12.67
92	1,2,4-Trimethylbenzene	2.993	3.097	-3.5	112	0.00	12.74
93	Pentachloroethane	0.451	0.494	-9.5	113	0.00	12.72
94	sec-Butylbenzene	3.544	3.643	-2.8	111	0.00	12.85
95	4-Isopropyltoluene	3.002	3.129	-4.2	112	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	41.615	-4.0	111	0.00	13.12
97	1,4-Dichlorobenzene	40.000	41.204	-3.0	113	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.715	1.840	-7.3	111	0.00	13.42
99	Benzyl Chloride	0.249	0.276	-10.8	114	0.00	13.43
	----------	Amount	Calc.	%Drift		----------	
100	1,2-Dichlorobenzene	40.000	40.796	-2.0	109	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.118	0.126	-6.8	112	0.00	14.37
102	Hexachlorobutadiene	0.581	0.540	7.1	104	0.00	14.91
103	1,2,4-Trichlorobenzene	1.078	1.015	5.8	108	0.00	14.96
	----------	Amount	Calc.	%Drift		----------	
104	Naphthalene	40.000	43.642	-9.1	111	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	41.975	-4.9	108	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	115	0.00	5.29
107	Ethanol	0.130	0.136	-4.6	116	-0.02	4.26
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	179.518	10.2	111	0.00	4.75
109	Tert Butyl Alcohol	400.000	410.558	-2.6	119	0.00	5.37
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.115	1.063	4.7	113	0.00	7.55
	----------	Amount	Calc.	%Drift		----------	
111	Isobutyl alcohol	800.000	885.072	-10.6	130	-0.01	7.43
112	1,4-Dioxane	800.000	839.043	-4.9	117	0.00	8.65
113	3,3-Dimethyl-1-butanol	2000.000	1970.719	1.5	113	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977356.D MSJ062116a.M Sat Jun 25 11:01:38 2016

6.7.5

6

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5347-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977519.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\062416\J0977519.D          Vial: 23
Acq On    : 24 Jun 2016   7:44 pm                    Operator: darshnap
Sample    : ecc5340-5                                Inst    : MSVOA6
Misc      : MS34230,vj5347,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jun 22 07:48:34 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	91	0.00	7.74
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	30.968	22.6	64	0.00	2.67
3	P	Chloromethane	40.000	41.374	-3.4	85	0.00	2.89
4	C	Vinyl Chloride	40.000	43.225	-8.1	89	0.00	3.03
5		1,3-Butadiene	40.000	45.569	-13.9	103	0.00	3.02
6		Bromomethane	40.000	45.013	-12.5	93	0.00	3.45
7		Chloroethane	40.000	45.124	-12.8	93	-0.01	3.59
8		Trichlorofluoromethane	40.000	44.634	-11.6	92	0.00	3.78
			AvgRF	CCRF	%Dev			
9		Ethyl Ether	0.238	0.247	-3.8	96	-0.02	4.10
10		1,2-Dichlorotrifluoroetha	0.305	0.308	-1.0	93	0.01	4.34
			Amount	Calc.	%Drift			
11	C	1,1-Dichloroethene	40.000	38.743	3.1	91	0.00	4.39
12		Freon 113	40.000	35.790	10.5	83	0.00	4.44
			AvgRF	CCRF	%Dev			
13		Carbon Disulfide	0.837	0.786	6.1	87	0.00	4.46
14		Iodomethane	0.431	0.368	14.6	84	-0.01	4.57
15		Allyl chloride	0.385	0.406	-5.5	95	0.00	4.91
16		Methylene Chloride	0.402	0.399	0.7	95	0.00	5.04
17		Acetone	0.017	0.020	-17.6	104	0.00	5.06
18		Methyl acetate	0.030	0.032	-6.7	99	0.00	5.18
19		trans-1,2-Dichloroethene	0.373	0.367	1.6	88	0.00	5.22
20		Hexane	0.250	0.263	-5.2	97	0.00	5.29
21		Methyl Tert Butyl Ether	0.808	0.728	9.9	87	0.00	5.32
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	415.423	-3.9	95	0.01	5.58
			AvgRF	CCRF	%Dev			
23		Di-isopropyl ether	0.969	0.964	0.5	93	0.00	5.70
			Amount	Calc.	%Drift			
24		Chloroprene	40.000	40.551	-1.4	91	0.00	5.86
			AvgRF	CCRF	%Dev			
25	P	1,1-Dichloroethane	0.503	0.520	-3.4	95	0.00	5.88

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5347-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977519.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
26		Acrylonitrile	200.000	235.822	-17.9	106	0.00	5.91

			AvgRF	CCRF	%Dev			
27		ETBE	1.014	0.965	4.8	90	0.00	6.11
28		Vinyl acetate	0.533	0.530	0.6	87	0.00	6.09
29		cis-1,2-Dichloroethene	0.307	0.267	13.0	83	0.00	6.46
30		2,2-Dichloropropane	0.425	0.363	14.6	79	0.00	6.59
31		Bromochloromethane	0.135	0.116	14.1	82	0.00	6.67
32		Cyclohexane	0.472	0.468	0.8	89	0.00	6.72

			Amount	Calc.	%Drift			
33	C	Chloroform	40.000	37.423	6.4	90	0.00	6.72

			AvgRF	CCRF	%Dev			
34		Ethyl acetate	0.194	0.223	-14.9	103	0.00	6.79

			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	48.506	-21.3	114	0.00	6.91

			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.263	0.258	1.9	91	0.00	6.91
37		Carbon Tetrachloride	0.411	0.387	5.8	85	0.00	6.92
38		1,1,1-Trichloroethane	0.505	0.466	7.7	84	0.00	6.98
39		2-Butanone	0.076	0.089	-17.1	100	0.00	7.01
40		1,1-Dichloropropene	0.368	0.357	3.0	89	0.00	7.09

			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	302.505	24.4	68	0.00	7.18

			AvgRF	CCRF	%Dev			
42		Propionitrile	0.027	0.027	0.0	95	0.00	7.32
43		Methacrylonitrile	0.123	0.137	-11.4	98	0.00	7.35

			Amount	Calc.	%Drift			
44		Benzene	40.000	38.912	2.7	91	0.00	7.35

			AvgRF	CCRF	%Dev			
45		TAME	0.812	0.715	11.9	86	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.384	0.404	-5.2	93	0.00	7.46

			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	38.052	4.9	91	0.00	7.53

			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.278	0.269	3.2	90	0.00	7.92
49		Methylcyclohexane	0.484	0.442	8.7	88	0.00	7.94

			Amount	Calc.	%Drift			
50		Dibromomethane	40.000	38.823	2.9	93	0.00	8.34

			AvgRF	CCRF	%Dev			
51	C	1,2-Dichloropropane	0.271	0.259	4.4	89	0.00	8.44
52		Bromodichloromethane	0.416	0.367	11.8	82	0.00	8.48

			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	42.970	-7.4	97	0.00	8.58

			AvgRF	CCRF	%Dev			
54		2-Chloroethyl vinyl ether	0.145	0.165	-13.8	102	0.00	8.99

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5347-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977519.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.449	0.391	12.9	85	0.00	9.10
56	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00	10.83
57	S	Toluene-d8	1.322	1.400	-5.9	93	0.00	9.28
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	38.686	3.3	88	0.00	9.34
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.089	0.090	-1.1	91	0.00	9.54
60		4-Methyl-2-pentanone	0.248	0.321	-29.4	104	0.00	9.66
61		trans-1,3-Dichloropropene	0.528	0.504	4.5	85	0.00	9.72
62		Tetrachloroethene	0.384	0.505	-31.5	113	0.00	9.74
63		Ethyl methacrylate	0.392	0.378	3.6	84	0.00	9.83
		----------	Amount	Calc.	%Drift	----------		
64		1,1,2-Trichloroethane	40.000	42.299	-5.7	98	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
65		Dibromochloromethane	0.375	0.335	10.7	82	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
66		1,3-Dichloropropane	40.000	39.614	1.0	90	0.00	10.17
67		1,2-Dibromoethane	40.000	38.212	4.5	85	0.00	10.35
		----------	AvgRF	CCRF	%Dev	----------		
68		2-hexanone	0.168	0.224	-33.3	109	0.00	10.47
69		1-Chlorohexane	0.498	0.489	1.8	85	0.00	10.78
70	C	Ethylbenzene	1.866	1.825	2.2	89	0.00	10.85
		----------	Amount	Calc.	%Drift	----------		
71	P	Chlorobenzene	40.000	39.249	1.9	86	0.00	10.85
72		1,1,1,2-Tetrachloroethane	40.000	40.261	-0.7	91	0.00	10.90
		----------	AvgRF	CCRF	%Dev	----------		
73		m,p-Xylene	1.442	1.381	4.2	87	0.00	10.98
		----------	Amount	Calc.	%Drift	----------		
74		o-Xylene	40.000	38.718	3.2	87	0.00	11.42
		----------	AvgRF	CCRF	%Dev	----------		
75		Styrene	1.126	1.038	7.8	83	0.00	11.47
76	P	Bromoform	0.218	0.193	11.5	81	0.00	11.54
77		Isopropylbenzene	1.751	1.704	2.7	88	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00	13.19
79	S	4-Bromofluorobenzene	0.961	0.935	2.7	87	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	37.542	6.1	85	0.00	12.08
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.987	3.711	6.9	89	0.00	12.15
		----------	Amount	Calc.	%Drift	----------		
82		Bromobenzene	40.000	35.762	10.6	85	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	40.000	39.754	0.6	93	0.00	12.21
		----------	AvgRF	CCRF	%Dev	----------		
84		1,3,5-Trimethylbenzene	2.963	2.691	9.2	86	0.00	12.33

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5347-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977519.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.793	2.574	7.8	88	0.00	12.33
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	35.501	11.2	84	0.00	12.39
87	1,2,3-Trichloropropane	40.000	39.661	0.8	88	0.00	12.37
88	Cyclohexanone	200.000	242.360	-21.2	106	0.00	12.43
89	4-Chlorotoluene	40.000	36.167	9.6	87	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.416	1.368	3.4	84	0.00	12.59
91	tert-Butylbenzene	1.725	1.601	7.2	89	0.00	12.67
92	1,2,4-Trimethylbenzene	2.993	2.688	10.2	85	0.00	12.74
93	Pentachloroethane	0.451	0.187	58.5#	37#	0.00	12.72
94	sec-Butylbenzene	3.544	3.306	6.7	88	0.00	12.86
95	4-Isopropyltoluene	3.002	2.660	11.4	84	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	34.522	13.7	82	0.00	13.12
97	1,4-Dichlorobenzene	40.000	37.416	6.5	90	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.715	1.593	7.1	85	0.00	13.42
99	Benzyl Chloride	0.249	0.187	24.9	68	0.00	13.43
	----------	Amount	Calc.	%Drift		----------	
100	1,2-Dichlorobenzene	40.000	37.312	6.7	87	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.118	0.123	-4.2	96	0.00	14.37
102	Hexachlorobutadiene	0.581	0.473	18.6	80	0.00	14.91
103	1,2,4-Trichlorobenzene	1.078	0.891	17.3	83	0.00	14.96
	----------	Amount	Calc.	%Drift		----------	
104	Naphthalene	40.000	38.627	3.4	85	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	38.443	3.9	87	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	102	0.00	5.29
107	Ethanol	0.130	0.139	-6.9	106	-0.02	4.26
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	170.402	14.8	93	0.00	4.74
109	Tert Butyl Alcohol	400.000	383.427	4.1	98	0.00	5.37
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.115	0.943	15.4	89	0.00	7.56
	----------	Amount	Calc.	%Drift		----------	
111	Isobutyl alcohol	800.000	747.313	6.6	97	0.00	7.44
112	1,4-Dioxane	800.000	853.589	-6.7	106	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	2025.097	-1.3	103	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977356.D MSJ062116a.M Sat Jun 25 11:04:43 2016

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5351-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977583.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\062716\J0977583.D          Vial: 1
Acq On    : 27 Jun 2016   9:11 am                    Operator: darshnap
Sample    : cc5340-5                                 Inst    : MSVOA6
Misc      : MS34242,vj5351,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jun 21 11:35:53 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	96	0.00	7.74
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	33.944	15.1	73	-0.01	2.67
3	P	Chloromethane	40.000	38.591	3.5	83	0.00	2.89
4	C	Vinyl Chloride	40.000	42.867	-7.2	93	0.00	3.03
5		1,3-Butadiene	40.000	44.600	-11.5	107	0.00	3.02
6		Bromomethane	40.000	48.679	-21.7#	105	-0.01	3.44
7		Chloroethane	40.000	43.611	-9.0	95	0.00	3.60
8		Trichlorofluoromethane	40.000	46.335	-15.8	100	0.03	3.80
			AvgRF	CCRF	%Dev			
9		Ethyl Ether	0.238	0.253	-6.3	104	-0.01	4.11
10		1,2-Dichlorotrifluoroetha	0.305	0.350	-14.8	111	0.01	4.34
			Amount	Calc.	%Drift			
11	C	1,1-Dichloroethene	40.000	39.028	2.4	96	-0.02	4.37
12		Freon 113	40.000	42.707	-6.8	103	0.00	4.44
			AvgRF	CCRF	%Dev			
13		Carbon Disulfide	0.837	0.900	-7.5	105	-0.01	4.46
14		Iodomethane	0.431	0.437	-1.4	104	-0.02	4.56
15		Allyl chloride	0.385	0.339	11.9	84	0.00	4.91
16		Methylene Chloride	0.402	0.401	0.2	100	-0.01	5.03
17		Acetone	0.017	0.016	5.9	92	0.00	5.05
18		Methyl acetate	0.030	0.032	-6.7	103	-0.01	5.17
19		trans-1,2-Dichloroethene	0.373	0.373	0.0	94	-0.02	5.21
20		Hexane	0.250	0.258	-3.2	100	-0.01	5.27
21		Methyl Tert Butyl Ether	0.808	0.743	8.0	94	-0.01	5.31
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	362.197	9.5	87	0.00	5.58
			AvgRF	CCRF	%Dev			
23		Di-isopropyl ether	0.969	0.933	3.7	95	0.00	5.70
			Amount	Calc.	%Drift			
24		Chloroprene	40.000	34.201	14.5	81	-0.01	5.85
			AvgRF	CCRF	%Dev			
25	P	1,1-Dichloroethane	0.503	0.516	-2.6	99	-0.01	5.88

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5351-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977583.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
26		Acrylonitrile	200.000	197.580	1.2	94	-0.01	5.91

			AvgRF	CCRF	%Dev			
27		ETBE	1.014	1.002	1.2	98	0.00	6.10
28		Vinyl acetate	0.533	0.506	5.1	87	0.00	6.09
29		cis-1,2-Dichloroethene	0.307	0.304	1.0	99	0.00	6.46
30		2,2-Dichloropropane	0.425	0.416	2.1	95	0.00	6.59
31		Bromochloromethane	0.135	0.132	2.2	99	0.00	6.66
32		Cyclohexane	0.472	0.483	-2.3	96	0.00	6.71

			Amount	Calc.	%Drift			
33	C	Chloroform	40.000	38.477	3.8	97	-0.01	6.72

			AvgRF	CCRF	%Dev			
34		Ethyl acetate	0.194	0.171	11.9	83	0.00	6.79

			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	40.801	-2.0	101	-0.02	6.89

			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.263	0.268	-1.9	99	0.00	6.91
37		Carbon Tetrachloride	0.411	0.385	6.3	88	0.00	6.92
38		1,1,1-Trichloroethane	0.505	0.488	3.4	92	0.00	6.98
39		2-Butanone	0.076	0.070	7.9	82	0.00	7.01
40		1,1-Dichloropropene	0.368	0.377	-2.4	99	-0.01	7.08

			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	375.108	6.2	88	0.00	7.17

			AvgRF	CCRF	%Dev			
42		Propionitrile	0.027	0.026	3.7	95	0.00	7.32
43		Methacrylonitrile	0.123	0.105	14.6	79	0.00	7.34

			Amount	Calc.	%Drift			
44		Benzene	40.000	42.362	-5.9	104	0.00	7.34

			AvgRF	CCRF	%Dev			
45		TAME	0.812	0.785	3.3	100	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.384	0.352	8.3	85	0.00	7.46

			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	38.651	3.4	97	0.00	7.53

			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.278	0.269	3.2	95	0.00	7.92
49		Methylcyclohexane	0.484	0.493	-1.9	102	-0.01	7.93

			Amount	Calc.	%Drift			
50		Dibromomethane	40.000	42.010	-5.0	106	0.00	8.34

			AvgRF	CCRF	%Dev			
51	C	1,2-Dichloropropane	0.271	0.273	-0.7	98	0.00	8.43
52		Bromodichloromethane	0.416	0.377	9.4	88	0.00	8.47

			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	29.941	25.1#	71	0.00	8.57

			AvgRF	CCRF	%Dev			
54		2-Chloroethyl vinyl ether	0.145	0.145	0.0	94	0.00	8.99

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5351-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977583.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.449	0.434	3.3	100	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	92	0.00	10.83
57	S	Toluene-d8	1.322	1.376	-4.1	97	0.00	9.29
		----------	Amount	Calc.	%Drift		----------	
58	C	Toluene	40.000	40.570	-1.4	98	0.00	9.34
		----------	AvgRF	CCRF	%Dev		----------	
59		2-Nitropropane	0.089	0.068	23.6#	73	0.00	9.54
60		4-Methyl-2-pentanone	0.248	0.233	6.0	81	0.00	9.66
61		trans-1,3-Dichloropropene	0.528	0.511	3.2	92	0.00	9.72
62		Tetrachloroethene	0.384	0.359	6.5	86	0.00	9.74
63		Ethyl methacrylate	0.392	0.359	8.4	85	0.00	9.82
		----------	Amount	Calc.	%Drift		----------	
64		1,1,2-Trichloroethane	40.000	42.069	-5.2	104	0.00	9.88
		----------	AvgRF	CCRF	%Dev		----------	
65		Dibromochloromethane	0.375	0.342	8.8	90	0.00	10.08
		----------	Amount	Calc.	%Drift		----------	
66		1,3-Dichloropropane	40.000	41.109	-2.8	99	0.00	10.17
67		1,2-Dibromoethane	40.000	40.812	-2.0	96	0.00	10.34
		----------	AvgRF	CCRF	%Dev		----------	
68		2-hexanone	0.168	0.164	2.4	85	0.00	10.47
69		1-Chlorohexane	0.498	0.536	-7.6	99	0.00	10.78
70	C	Ethylbenzene	1.866	1.928	-3.3	101	0.00	10.85
		----------	Amount	Calc.	%Drift		----------	
71	P	Chlorobenzene	40.000	42.130	-5.3	98	0.00	10.85
72		1,1,1,2-Tetrachloroethane	40.000	41.653	-4.1	100	0.00	10.89
		----------	AvgRF	CCRF	%Dev		----------	
73		m,p-Xylene	1.442	1.461	-1.3	98	0.00	10.98
		----------	Amount	Calc.	%Drift		----------	
74		o-Xylene	40.000	39.782	0.5	95	0.00	11.42
		----------	AvgRF	CCRF	%Dev		----------	
75		Styrene	1.126	1.124	0.2	96	0.00	11.47
76	P	Bromoform	0.218	0.183	16.1	82	0.00	11.53
77		Isopropylbenzene	1.751	1.829	-4.5	101	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	13.19
79	S	4-Bromofluorobenzene	0.961	0.982	-2.2	90	0.00	12.04
		----------	Amount	Calc.	%Drift		----------	
80		cis-1,4-Dichloro-2-butene	40.000	37.282	6.8	83	0.00	12.07
		----------	AvgRF	CCRF	%Dev		----------	
81		n-Propylbenzene	3.987	4.309	-8.1	101	0.00	12.15
		----------	Amount	Calc.	%Drift		----------	
82		Bromobenzene	40.000	38.627	3.4	90	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	40.000	46.985	-17.5	107	0.00	12.21
		----------	AvgRF	CCRF	%Dev		----------	
84		1,3,5-Trimethylbenzene	2.963	3.184	-7.5	99	0.00	12.33

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5351-CC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977583.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.793	3.022	-8.2	101	0.00	12.33
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	35.940	10.2	83	0.00	12.39
87	1,2,3-Trichloropropane	40.000	42.968	-7.4	93	0.00	12.37
88	Cyclohexanone	200.000	216.677	-8.3	93	0.00	12.43
89	4-Chlorotoluene	40.000	41.709	-4.3	97	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.416	1.512	-6.8	90	0.00	12.59
91	tert-Butylbenzene	1.725	1.812	-5.0	98	0.00	12.67
92	1,2,4-Trimethylbenzene	2.993	3.226	-7.8	100	0.00	12.74
93	Pentachloroethane	0.451	0.455	-0.9	89	0.00	12.72
94	sec-Butylbenzene	3.544	4.010	-13.1	105	0.00	12.85
95	4-Isopropyltoluene	3.002	3.273	-9.0	100	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	44.123	-10.3	101	0.00	13.12
97	1,4-Dichlorobenzene	40.000	45.814	-14.5	107	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.715	1.997	-16.4	104	0.00	13.42
99	Benzyl Chloride	0.249	0.288	-15.7	102	0.00	13.43
	----------	Amount	Calc.	%Drift		----------	
100	1,2-Dichlorobenzene	40.000	42.540	-6.3	97	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.118	0.126	-6.8	96	0.00	14.37
102	Hexachlorobutadiene	0.581	0.489	15.8	81	0.00	14.91
103	1,2,4-Trichlorobenzene	1.078	0.959	11.0	87	0.00	14.96
	----------	Amount	Calc.	%Drift		----------	
104	Naphthalene	40.000	43.633	-9.1	95	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	39.263	1.8	86	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	87	-0.01	5.28
107	Ethanol	0.130	0.139	-6.9	90	-0.02	4.26
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	205.723	-2.9	96	-0.01	4.74
109	Tert Butyl Alcohol	400.000	389.708	2.6	85	-0.01	5.36
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.115	1.076	3.5	86	0.00	7.55
	----------	Amount	Calc.	%Drift		----------	
111	Isobutyl alcohol	800.000	754.230	5.7	84	0.00	7.43
112	1,4-Dioxane	800.000	878.449	-9.8	93	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	2193.519	-9.7	96	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977356.D MSJ062116a.M Tue Jun 28 12:27:06 2016

6.7.7

6

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5351-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977609.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\062716\J0977609.D          Vial: 24
Acq On    : 27 Jun 2016   7:21 pm                    Operator: darshnap
Sample    : ecc5340-5                                Inst    : MSVOA6
Misc      : MS34257,vj5351,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jun 21 11:35:53 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	123	0.00	7.75
			Amount	Calc.	%Drift			
2		Dichlorodifluoromethane	40.000	32.751	18.1	91	0.00	2.69
3	P	Chloromethane	40.000	38.953	2.6	108	0.00	2.89
4	C	Vinyl Chloride	40.000	40.246	-0.6	112	0.00	3.03
5		1,3-Butadiene	40.000	57.398	-43.5	171	0.00	3.03
6		Bromomethane	40.000	39.197	2.0	111	0.00	3.46
7		Chloroethane	40.000	37.234	6.9	106	0.00	3.61
8		Trichlorofluoromethane	40.000	34.245	14.4	97	0.00	3.77
			AvgRF	CCRF	%Dev			
9		Ethyl Ether	0.238	0.227	4.6	119	-0.01	4.11
10		1,2-Dichlorotrifluoroetha	0.305	0.308	-1.0	126	0.02	4.34
			Amount	Calc.	%Drift			
11	C	1,1-Dichloroethene	40.000	33.139	17.2	106	0.00	4.39
12		Freon 113	40.000	36.786	8.0	115	0.00	4.45
			AvgRF	CCRF	%Dev			
13		Carbon Disulfide	0.837	0.765	8.6	114	0.00	4.47
14		Iodomethane	0.431	0.378	12.3	116	0.00	4.58
15		Allyl chloride	0.385	0.284	26.2	90	0.00	4.91
16		Methylene Chloride	0.402	0.354	11.9	114	0.00	5.04
17		Acetone	0.017	0.016	5.9	117	0.00	5.05
18		Methyl acetate	0.030	0.031	-3.3	130	0.00	5.18
19		trans-1,2-Dichloroethene	0.373	0.342	8.3	110	0.00	5.23
20		Hexane	0.250	0.262	-4.8	131	0.00	5.28
21		Methyl Tert Butyl Ether	0.808	0.670	17.1	109	0.00	5.32
			Amount	Calc.	%Drift			
22		Acetonitrile	400.000	358.753	10.3	111	0.01	5.58
			AvgRF	CCRF	%Dev			
23		Di-isopropyl ether	0.969	0.845	12.8	110	0.00	5.71
			Amount	Calc.	%Drift			
24		Chloroprene	40.000	31.959	20.1	98	0.00	5.86
			AvgRF	CCRF	%Dev			
25	P	1,1-Dichloroethane	0.503	0.477	5.2	118	0.00	5.89

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5351-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977609.D
Project: BMSMC, Building 5 Area, Humacao, PR

			Amount	Calc.	%Drift			
26		Acrylonitrile	200.000	207.387	-3.7	126	0.00	5.91

			AvgRF	CCRF	%Dev			
27		ETBE	1.014	0.864	14.8	109	0.00	6.11
28		Vinyl acetate	0.533	0.428	19.7	95	0.00	6.09
29		cis-1,2-Dichloroethene	0.307	0.278	9.4	116	0.00	6.46
30		2,2-Dichloropropane	0.425	0.323	24.0	94	0.00	6.59
31		Bromochloromethane	0.135	0.123	8.9	118	0.00	6.67
32		Cyclohexane	0.472	0.466	1.3	119	0.00	6.72

			Amount	Calc.	%Drift			
33	C	Chloroform	40.000	35.672	10.8	115	0.00	6.72

			AvgRF	CCRF	%Dev			
34		Ethyl acetate	0.194	0.168	13.4	105	0.00	6.79

			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	37.080	7.3	118	0.00	6.91

			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.263	0.241	8.4	115	0.00	6.91
37		Carbon Tetrachloride	0.411	0.345	16.1	102	0.00	6.92
38		1,1,1-Trichloroethane	0.505	0.418	17.2	101	0.00	6.99
39		2-Butanone	0.076	0.068	10.5	103	0.00	7.01
40		1,1-Dichloropropene	0.368	0.351	4.6	118	0.00	7.09

			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	240.961	39.8	72	0.00	7.18

			AvgRF	CCRF	%Dev			
42		Propionitrile	0.027	0.027	0.0	127	0.00	7.32
43		Methacrylonitrile	0.123	0.104	15.4	100	0.00	7.35

			Amount	Calc.	%Drift			
44		Benzene	40.000	41.110	-2.8	130	0.00	7.35

			AvgRF	CCRF	%Dev			
45		TAME	0.812	0.708	12.8	115	0.00	7.42
46	S	1,2-Dichloroethane-d4	0.384	0.323	15.9	100	0.00	7.46

			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	30.658	23.4	99	0.00	7.53

			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.278	0.275	1.1	125	0.00	7.92
49		Methylcyclohexane	0.484	0.483	0.2	129	0.00	7.95

			Amount	Calc.	%Drift			
50		Dibromomethane	40.000	37.073	7.3	120	0.00	8.34

			AvgRF	CCRF	%Dev			
51	C	1,2-Dichloropropane	0.271	0.283	-4.4	131	0.00	8.44
52		Bromodichloromethane	0.416	0.337	19.0	101	0.00	8.48

			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	30.540	23.7	93	0.00	8.58

			AvgRF	CCRF	%Dev			
54		2-Chloroethyl vinyl ether	0.145	0.152	-4.8	127	0.00	8.99

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5351-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977609.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.449	0.357	20.5	105	0.00	9.10
56	I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00	10.83
57	S	Toluene-d8	1.322	1.340	-1.4	120	0.00	9.29
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	39.931	0.2	122	0.00	9.34
		----------	AvgRF	CCRF	%Dev	----------		
59		2-Nitropropane	0.089	0.057	36.0	77	0.00	9.54
60		4-Methyl-2-pentanone	0.248	0.244	1.6	107	0.00	9.66
61		trans-1,3-Dichloropropene	0.528	0.438	17.0	100	0.00	9.72
62		Tetrachloroethene	0.384	0.464	-20.8	141	0.00	9.74
63		Ethyl methacrylate	0.392	0.386	1.5	116	0.00	9.83
		----------	Amount	Calc.	%Drift	----------		
64		1,1,2-Trichloroethane	40.000	41.615	-4.0	130	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
65		Dibromochloromethane	0.375	0.302	19.5	100	0.00	10.08
		----------	Amount	Calc.	%Drift	----------		
66		1,3-Dichloropropane	40.000	38.273	4.3	117	0.00	10.17
67		1,2-Dibromoethane	40.000	36.886	7.8	110	0.00	10.35
		----------	AvgRF	CCRF	%Dev	----------		
68		2-hexanone	0.168	0.165	1.8	109	0.00	10.47
69		1-Chlorohexane	0.498	0.507	-1.8	118	0.00	10.78
70	C	Ethylbenzene	1.866	1.781	4.6	117	0.00	10.85
		----------	Amount	Calc.	%Drift	----------		
71	P	Chlorobenzene	40.000	39.450	1.4	117	0.00	10.85
72		1,1,1,2-Tetrachloroethane	40.000	37.520	6.2	114	0.00	10.90
		----------	AvgRF	CCRF	%Dev	----------		
73		m,p-Xylene	1.442	1.355	6.0	115	0.00	10.98
		----------	Amount	Calc.	%Drift	----------		
74		o-Xylene	40.000	36.910	7.7	112	0.00	11.42
		----------	AvgRF	CCRF	%Dev	----------		
75		Styrene	1.126	1.036	8.0	112	0.00	11.47
76	P	Bromoform	0.218	0.151	30.7	85	0.00	11.54
77		Isopropylbenzene	1.751	1.674	4.4	116	0.00	11.73
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	13.19
79	S	4-Bromofluorobenzene	0.961	1.012	-5.3	107	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	17.485	56.3#	44	0.00	12.07
		----------	AvgRF	CCRF	%Dev	----------		
81		n-Propylbenzene	3.987	4.317	-8.3	117	0.00	12.15
		----------	Amount	Calc.	%Drift	----------		
82		Bromobenzene	40.000	36.554	8.6	99	0.00	12.17
83	P	1,1,2,2-Tetrachloroethane	40.000	46.152	-15.4	122	0.00	12.21
		----------	AvgRF	CCRF	%Dev	----------		
84		1,3,5-Trimethylbenzene	2.963	3.168	-6.9	114	0.00	12.33

Continuing Calibration Summary

Job Number: FA34821 **Sample:** VJ5351-ECC5340
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977609.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	2-Chlorotoluene	2.793	2.924	-4.7	113	0.00	12.34
	----------	Amount	Calc.	%Drift		----------	
86	trans-1,4-Dichloro-2-Bute	40.000	18.399	54.0#	50	0.00	12.39
87	1,2,3-Trichloropropane	40.000	40.779	-1.9	102	0.00	12.36
88	Cyclohexanone	200.000	226.651	-13.3	112	0.00	12.44
89	4-Chlorotoluene	40.000	39.795	0.5	108	0.00	12.50
	----------	AvgRF	CCRF	%Dev		----------	
90	a-Methyl Styrene	1.416	1.607	-13.5	111	0.00	12.59
91	tert-Butylbenzene	1.725	1.720	0.3	108	0.00	12.67
92	1,2,4-Trimethylbenzene	2.993	3.093	-3.3	111	0.00	12.74
93	Pentachloroethane	0.451	0.281	37.7	64	0.00	12.72
94	sec-Butylbenzene	3.544	4.029	-13.7	122	0.00	12.85
95	4-Isopropyltoluene	3.002	3.284	-9.4	117	0.00	12.99
	----------	Amount	Calc.	%Drift		----------	
96	1,3-Dichlorobenzene	40.000	42.724	-6.8	113	0.00	13.12
97	1,4-Dichlorobenzene	40.000	44.224	-10.6	120	0.00	13.20
	----------	AvgRF	CCRF	%Dev		----------	
98	n-Butylbenzene	1.715	1.901	-10.8	114	0.00	13.42
99	Benzyl Chloride	0.249	0.240	3.6	99	0.00	13.43
	----------	Amount	Calc.	%Drift		----------	
100	1,2-Dichlorobenzene	40.000	43.284	-8.2	115	0.00	13.63
	----------	AvgRF	CCRF	%Dev		----------	
101	1,2-Dibromo-3-Chloropropa	0.118	0.116	1.7	102	0.00	14.37
102	Hexachlorobutadiene	0.581	0.497	14.5	95	0.00	14.91
103	1,2,4-Trichlorobenzene	1.078	0.923	14.4	97	0.00	14.96
	----------	Amount	Calc.	%Drift		----------	
104	Naphthalene	40.000	43.259	-8.1	109	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	38.754	3.1	99	0.00	15.41
	----------	AvgRF	CCRF	%Dev		----------	
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	104	0.01	5.31
107	Ethanol	0.130	0.159	-22.3	123	0.02	4.30
	----------	Amount	Calc.	%Drift		----------	
108	acrolein	200.000	223.258	-11.6	124	0.00	4.75
109	Tert Butyl Alcohol	400.000	397.195	0.7	104	-0.01	5.36
	----------	AvgRF	CCRF	%Dev		----------	
110	tert Amyl alcohol	1.115	1.076	3.5	104	0.00	7.56
	----------	Amount	Calc.	%Drift		----------	
111	Isobutyl alcohol	800.000	841.448	-5.2	112	0.00	7.44
112	1,4-Dioxane	800.000	1006.227	-25.8	127	0.00	8.65
113	3,3-Dimethyl-1-butanol	2000.000	2249.019	-12.5	118	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977356.D MSJ062116a.M Tue Jun 28 09:34:04 2016

6.7.8

6

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977468.D
Acq On : 23 Jun 2016 11:54 am
Operator : darshnap
Sample : fa34821-1 ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 23 14:19:16 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

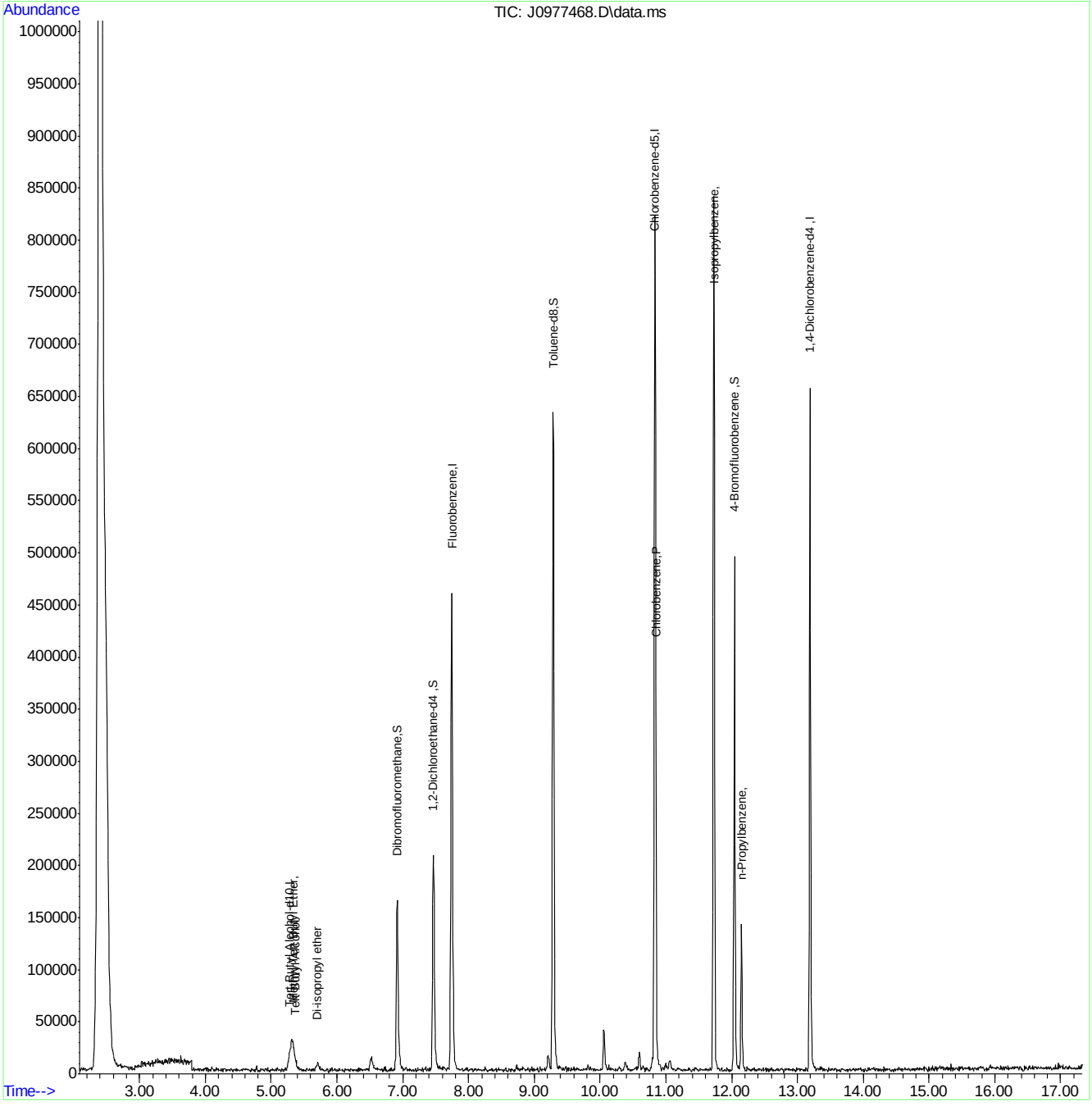
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	366965	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	255669	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	132463	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	24536	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	98052	50.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.54%			
46) 1,2-Dichloroethane-d4	7.464	65	157030	55.71	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 111.42%			
57) Toluene-d8	9.285	98	356751	52.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.58%			
79) 4-Bromofluorobenzene	12.041	95	132568	52.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.18%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.337	73	34203	5.77	ug/L	70
23) Di-isopropyl ether	5.701	45	8318	1.17	ug/L	73
71) Chlorobenzene	10.848	112	2337	0.45	ug/L	85
77) Isopropylbenzene	11.729	105	442724	49.44	ug/L	91
81) n-Propylbenzene	12.146	91	95944	9.08	ug/L	95
109) Tert Butyl Alcohol	5.366	59	6175	43.84	ug/L #	64

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

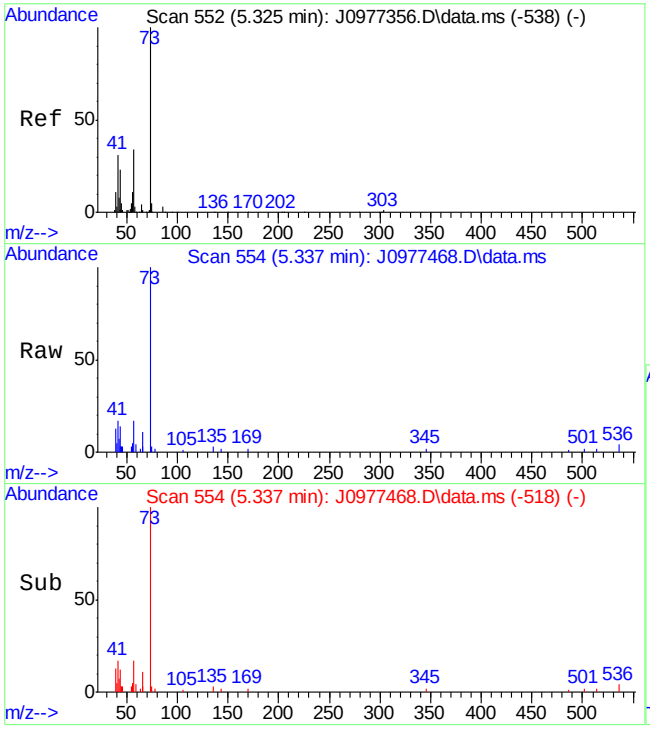
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977468.D
Acq On : 23 Jun 2016 11:54 am
Operator : darshnap
Sample : fa34821-1 ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 23 14:19:16 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



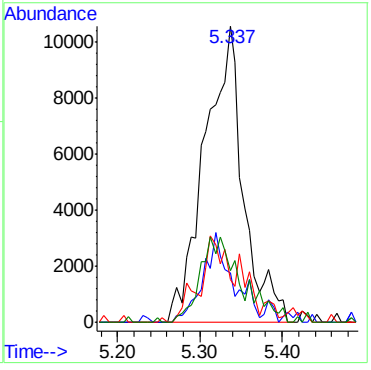
MSJ062116a.M Fri Jun 24 08:49:48 2016 Page: 2

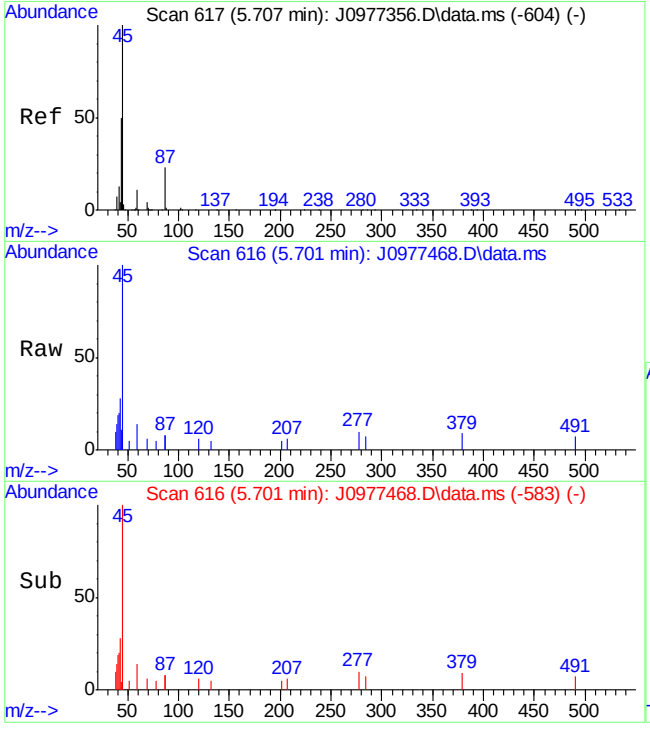


#21
Methyl Tert Butyl Ether
Concen: 5.77 ug/L
RT: 5.337 min Scan# 554
Delta R.T. 0.012 min
Lab File: J0977468.D
Acq: 23 Jun 2016 11:54 am

Tgt Ion: 73 Resp: 34203

Ion	Ratio	Lower	Upper
73	100		
57	16.8	5.3	65.3
43	12.9	0.7	60.7
41	17.3	1.7	61.7

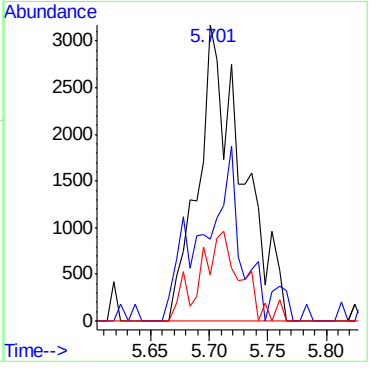


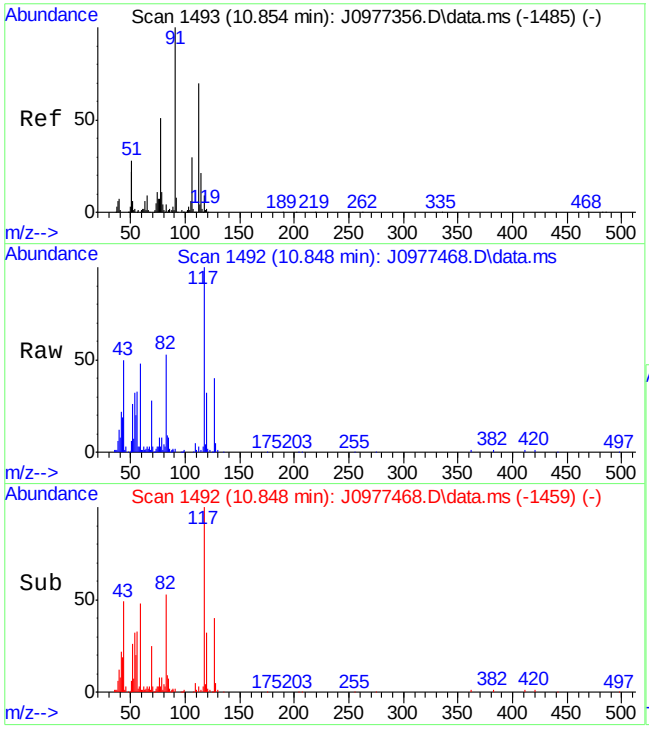


#23
Di-isopropyl ether
Concen: 1.17 ug/L
RT: 5.701 min Scan# 616
Delta R.T. -0.006 min
Lab File: J0977468.D
Acq: 23 Jun 2016 11:54 am

Tgt Ion: 45 Resp: 8318

Ion	Ratio	Lower	Upper
45	100		
43	27.7	19.6	79.6
87	15.4	0.0	52.7

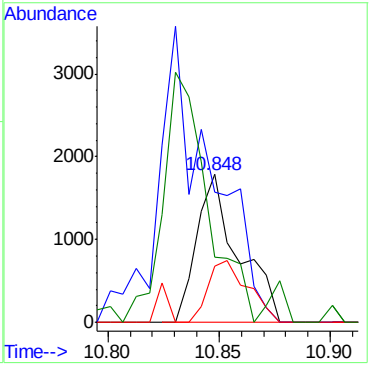


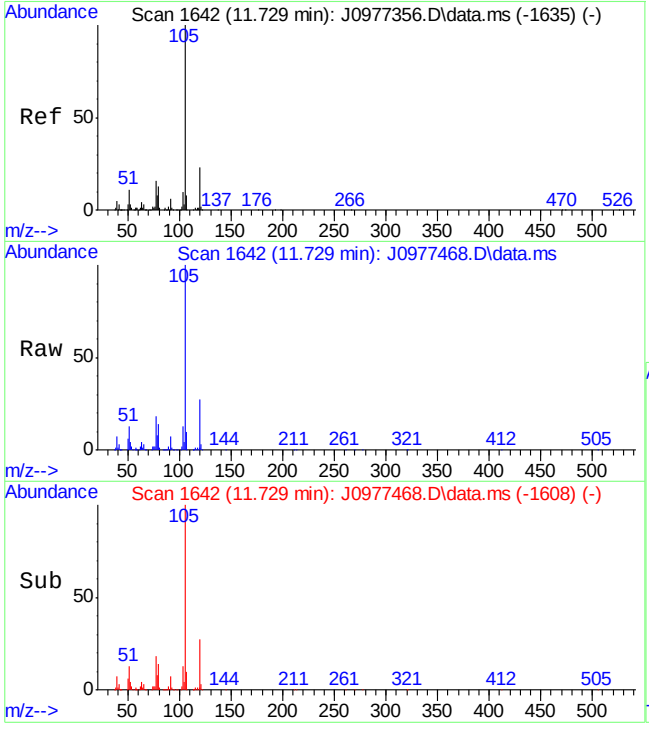


#71
Chlorobenzene
Concen: 0.45 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. -0.006 min
Lab File: J0977468.D
Acq: 23 Jun 2016 11:54 am

Tgt Ion:112 Resp: 2337

Ion	Ratio	Lower	Upper
112	100		
77	88.1	42.9	102.9
114	38.2	0.0	59.4
51	44.0	9.3	69.3

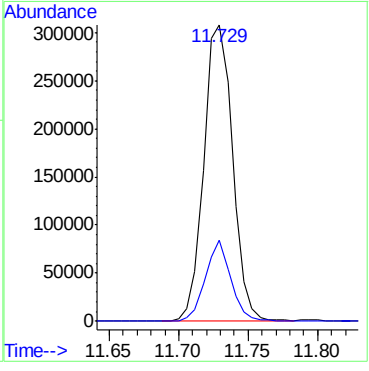


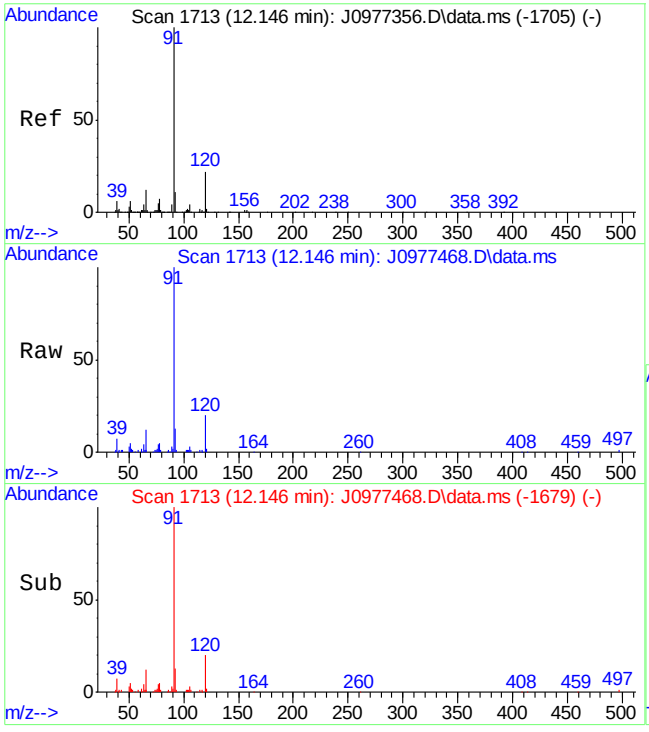


#77
Isopropylbenzene
Concen: 49.44 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977468.D
Acq: 23 Jun 2016 11:54 am

Tgt Ion:105 Resp: 442724

Ion	Ratio	Lower	Upper
105	100		
120	27.2	0.0	52.9

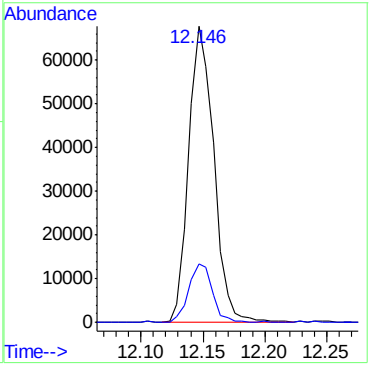


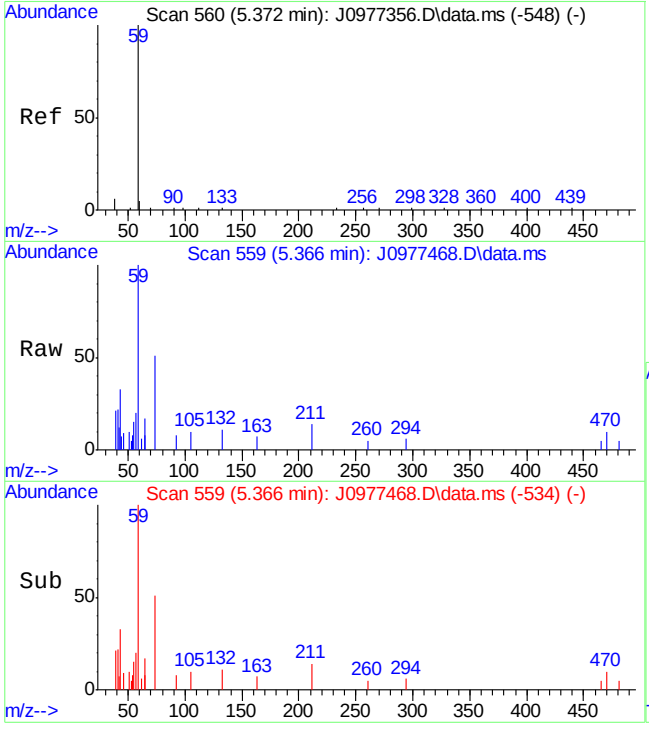


#81
n-Propylbenzene
Concen: 9.08 ug/L
RT: 12.146 min Scan# 1713
Delta R.T. 0.000 min
Lab File: J0977468.D
Acq: 23 Jun 2016 11:54 am

Tgt Ion: 91 Resp: 95944

Ion	Ratio	Lower	Upper
91	100		
120	19.8	0.0	52.4

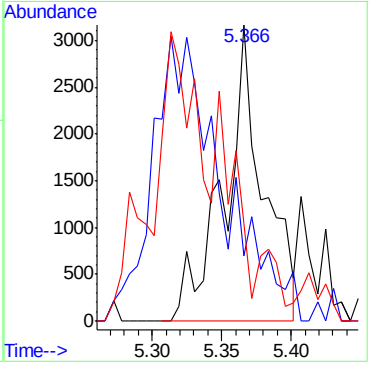




#109
Tert Butyl Alcohol
Concen: 43.84 ug/L
RT: 5.366 min Scan# 559
Delta R.T. -0.006 min
Lab File: J0977468.D
Acq: 23 Jun 2016 11:54 am

Tgt Ion: 59 Resp: 6175

Ion	Ratio	Lower	Upper
59	100		
41	5.3	20.7	60.7#
43	26.9	11.2	51.2



Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/24/16 13:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977469.D
Acq On : 23 Jun 2016 12:17 pm
Operator : darshnap
Sample : fa34821-2 ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 23 14:19:45 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	343905	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	248605	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	133447	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	23223m	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	95373	52.69	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.38%			
46) 1,2-Dichloroethane-d4	7.464	65	158595	60.04	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 120.08%			
57) Toluene-d8	9.285	98	347883	52.94	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.88%			
79) 4-Bromofluorobenzene	12.041	95	132863	51.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.64%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.331	73	20028	3.60	ug/L	77
23) Di-isopropyl ether	5.707	45	6813	1.02	ug/L	90
109) Tert Butyl Alcohol	5.372	59	3225	24.18	ug/L #	68
110) tert Amyl alcohol	7.464	59	255	2.46	ug/L #	28

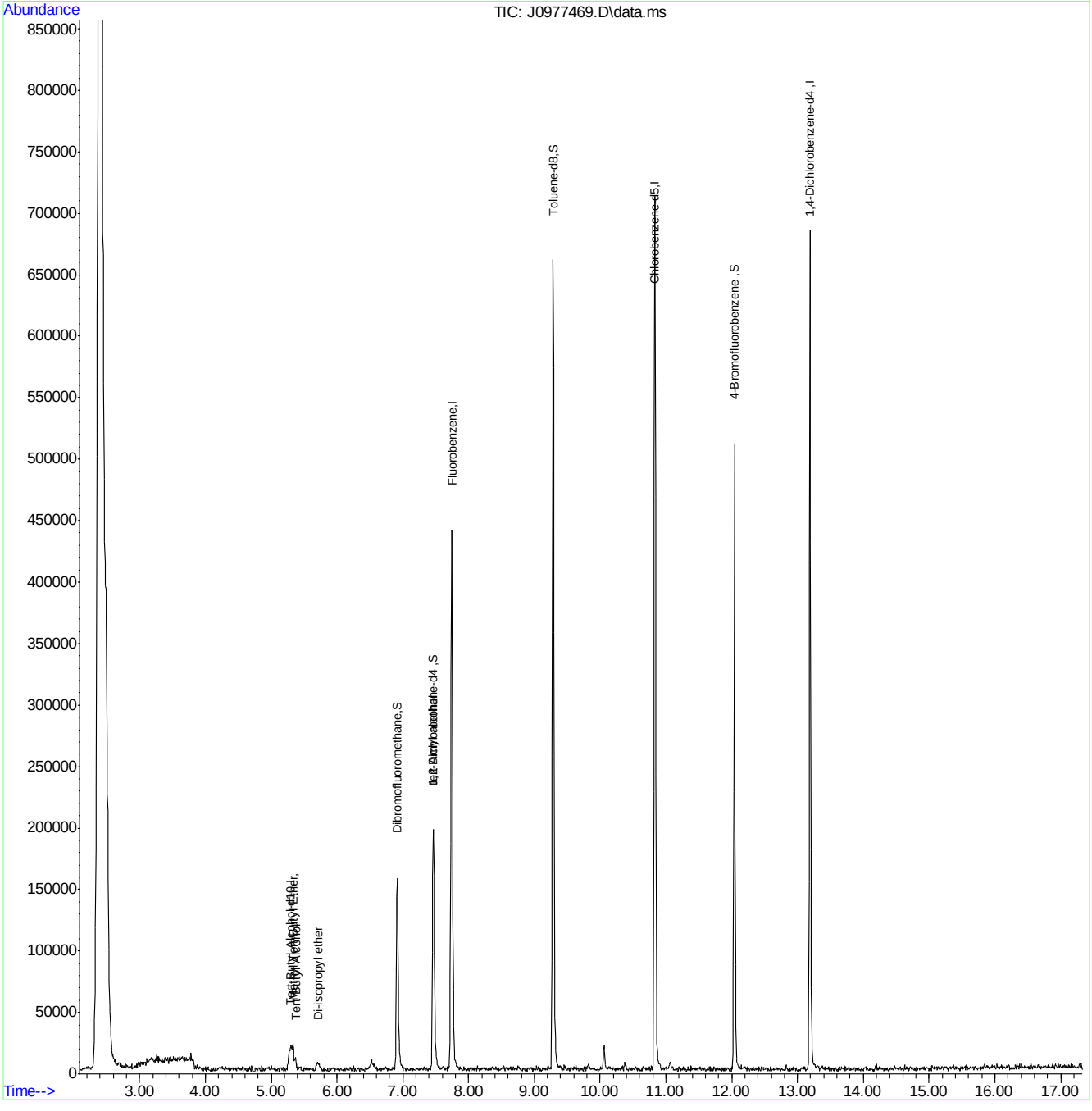
(#) = qualifier out of range (m) = manual integration (+) = signals summed

7.1.2
7

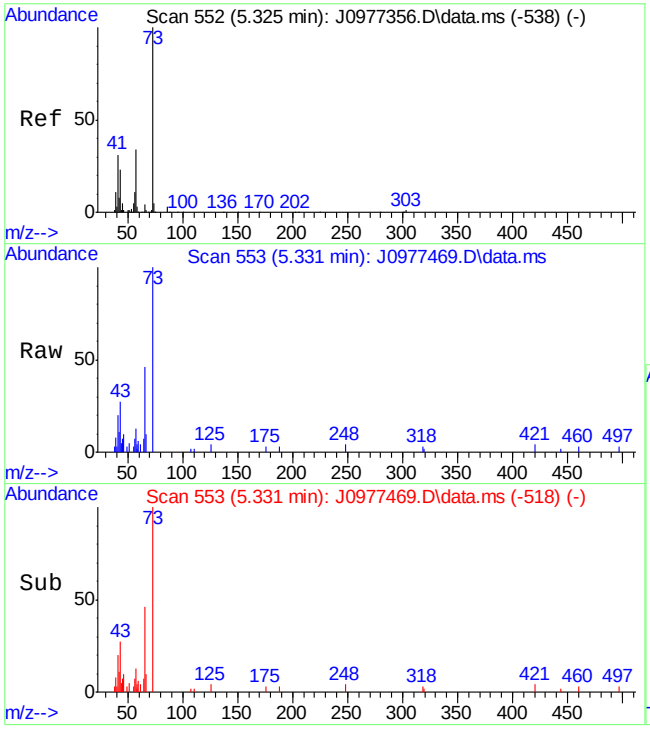
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977469.D
Acq On : 23 Jun 2016 12:17 pm
Operator : darshnap
Sample : fa34821-2 ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 23 14:19:45 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



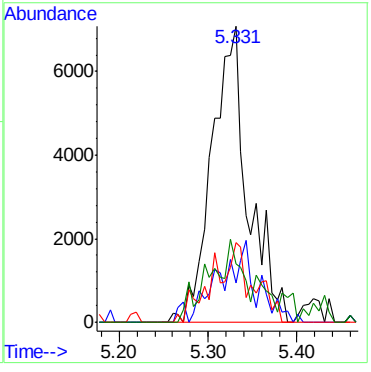
MSJ062116a.M Fri Jun 24 08:49:51 2016 Page: 2

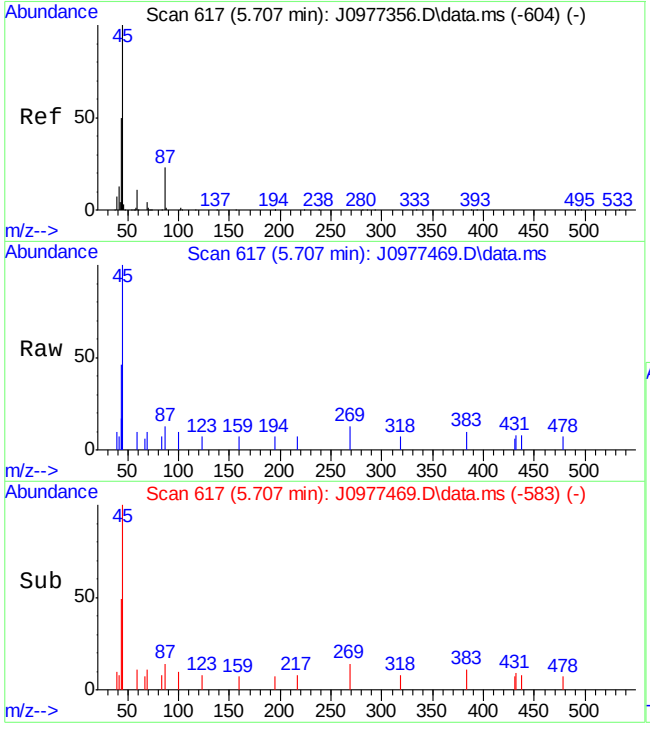


#21
Methyl Tert Butyl Ether
Concen: 3.60 ug/L
RT: 5.331 min Scan# 553
Delta R.T. 0.006 min
Lab File: J0977469.D
Acq: 23 Jun 2016 12:17 pm

Tgt Ion: 73 Resp: 20028

Ion	Ratio	Lower	Upper
73	100		
57	13.1	5.3	65.3
43	26.9	0.7	60.7
41	19.6	1.7	61.7

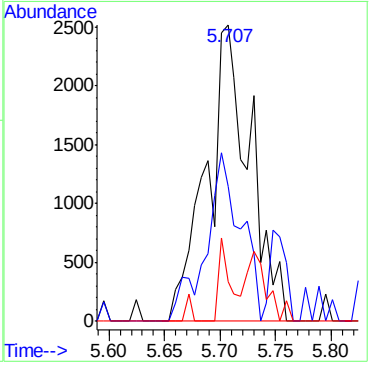




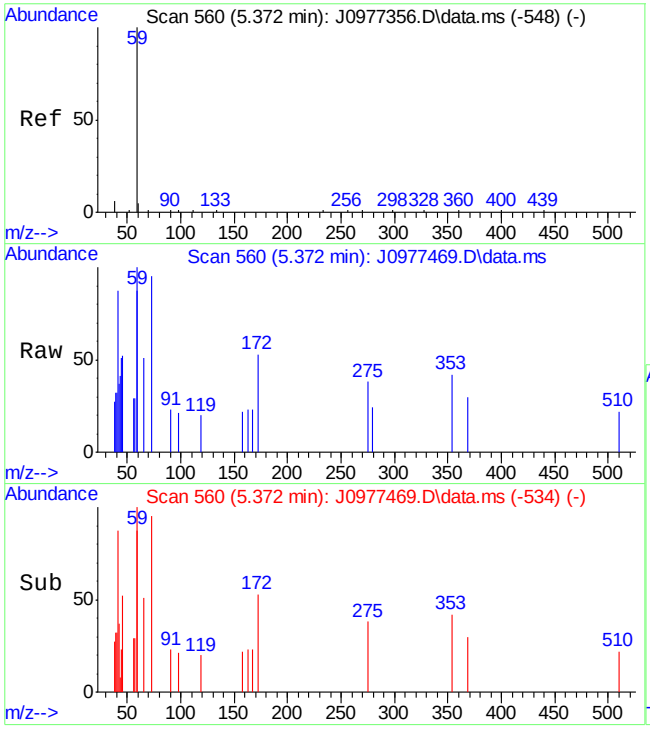
#23
Di-isopropyl ether
Concen: 1.02 ug/L
RT: 5.707 min Scan# 617
Delta R.T. 0.000 min
Lab File: J0977469.D
Acq: 23 Jun 2016 12:17 pm

Tgt Ion: 45 Resp: 6813

Ion	Ratio	Lower	Upper
45	100		
43	45.6	19.6	79.6
87	13.2	0.0	52.7



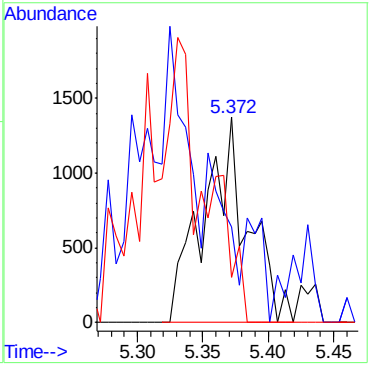
SGS ACCUTEST FA34821

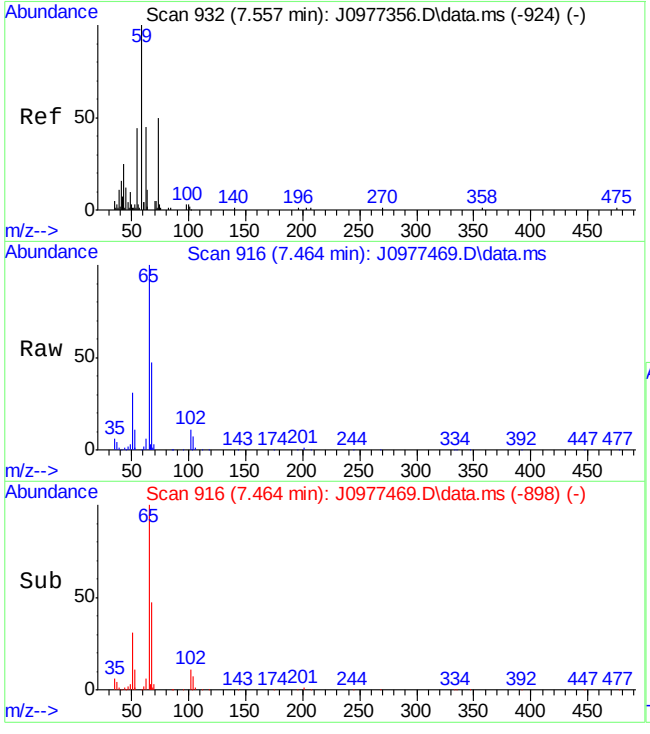


#109
Tert Butyl Alcohol
Concen: 24.18 ug/L
RT: 5.372 min Scan# 560
Delta R.T. -0.000 min
Lab File: J0977469.D
Acq: 23 Jun 2016 12:17 pm

Tgt Ion: 59 Resp: 3225

Ion	Ratio	Lower	Upper
59	100		
41	13.5	20.7	60.7#
43	21.8	11.2	51.2

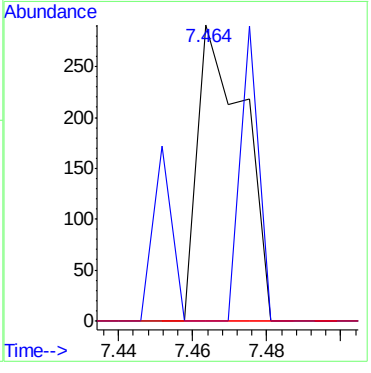




#110
tert Amyl alcohol
Concen: 2.46 ug/L
RT: 7.464 min Scan# 916
Delta R.T. -0.093 min
Lab File: J0977469.D
Acq: 23 Jun 2016 12:17 pm

Tgt Ion: 59 Resp: 255

Ion	Ratio	Lower	Upper
59	100		
55	0.0	24.5	64.5#
73	0.0	32.2	72.2#



Manual Integration Approval Summary

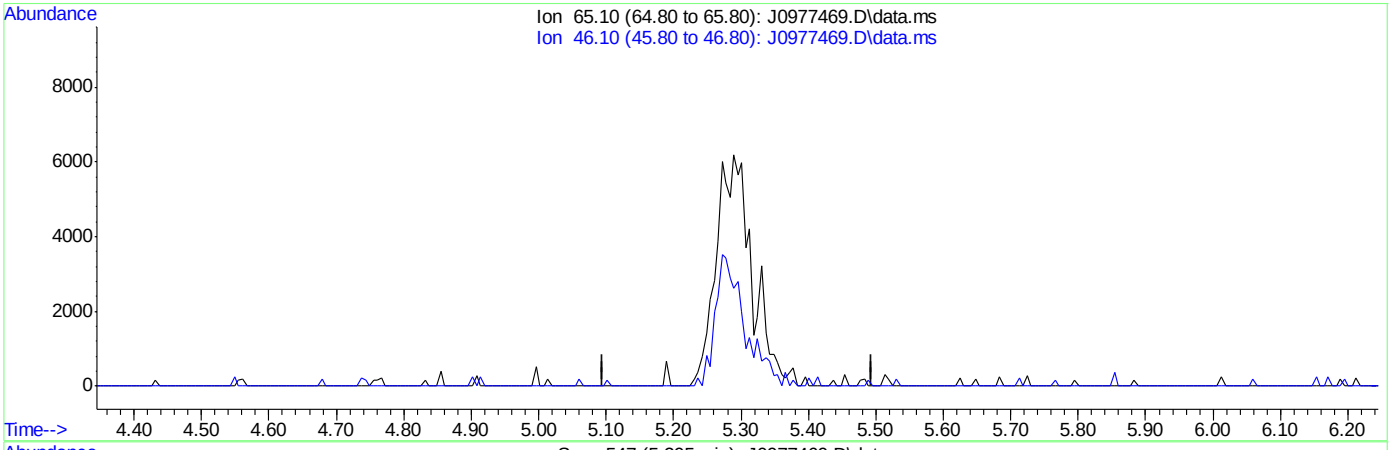
Sample Number:	FA34821-2	**Method:**	SW846 8260C
Lab FileID:	J0977469.D	**Analyst approved:**	06/24/16 10:44 Darshna Patel
Injection Time:	06/23/16 12:17	**Supervisor approved:**	06/24/16 13:59 Juan Garcia

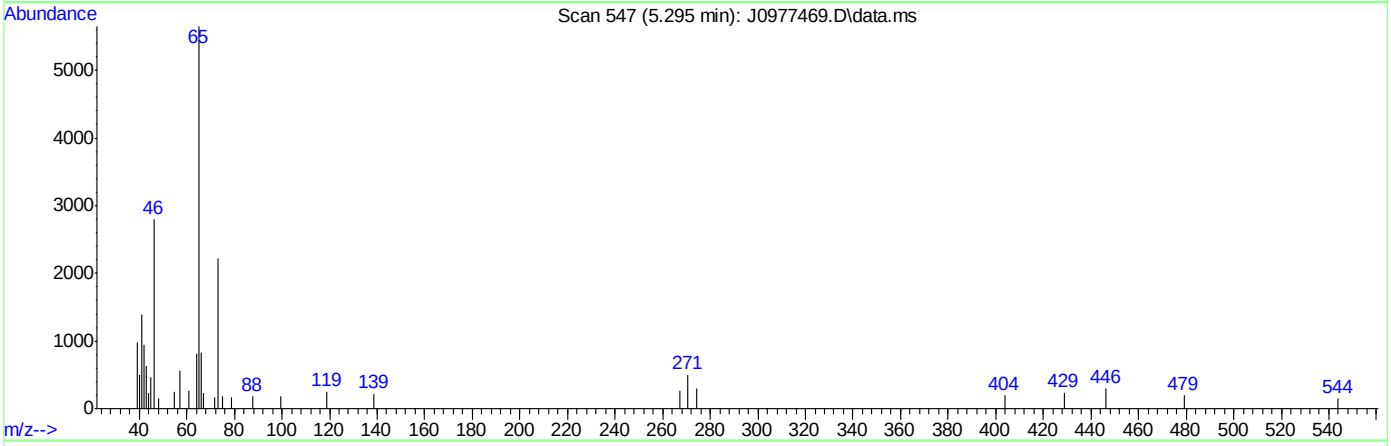
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tert Butyl Alcohol-D10			5.29	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977469.D
Acq On : 23 Jun 2016 12:17 pm
Operator : darshnap
Sample : fa34821-2 ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 23 14:12:32 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977469.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.295min (-5.295) 0.00ug/L

response 0

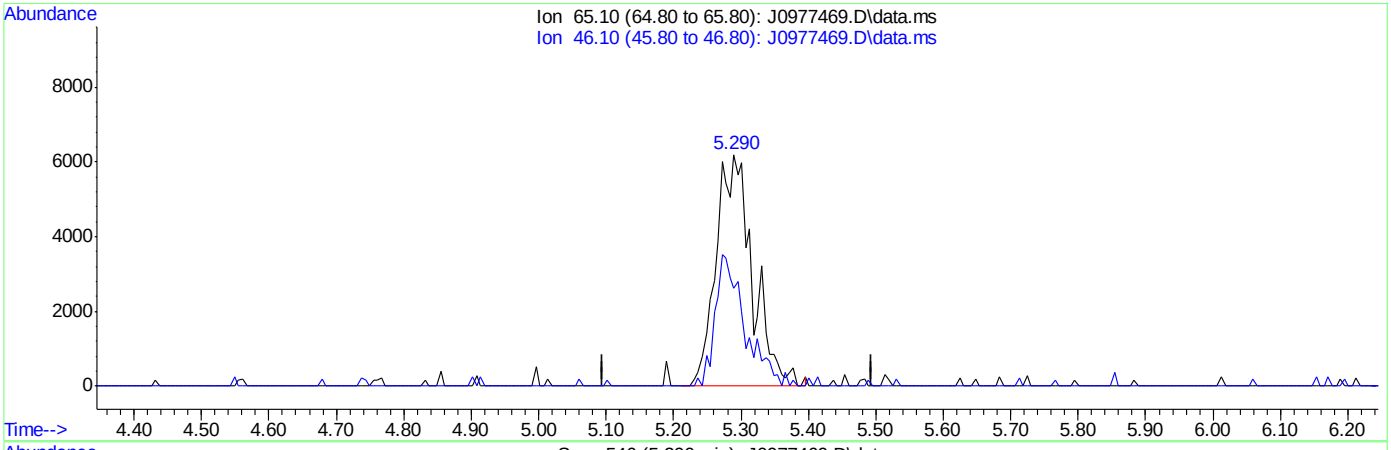
Ion	Exp%	Act%
65.10	100	0.00
46.10	20.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

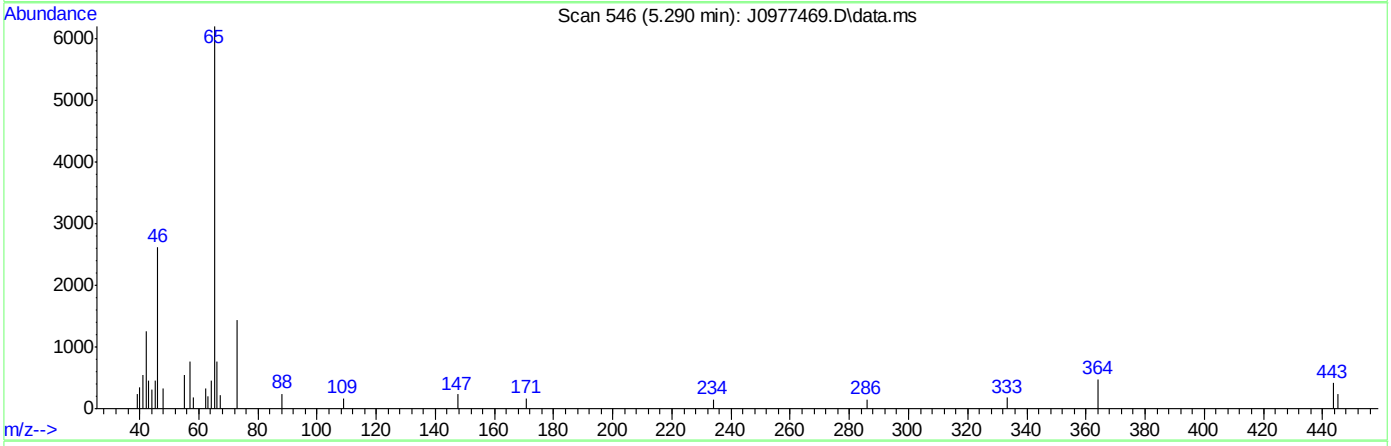
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977469.D
Acq On : 23 Jun 2016 12:17 pm
Operator : darshnap
Sample : fa34821-2 ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 23 14:12:32 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977469.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.290min (-0.005) 250.00ug/L m

response 23223

Ion	Exp%	Act%
65.10	100	100
46.10	20.40	42.32#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977509.D
Acq On : 24 Jun 2016 3:52 pm
Operator : darshnap
Sample : fa34821-3 ma Inst : MSVOA6
Misc : MS34239,vj5348,,,,,100
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 10:11:01 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	327653	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	237795	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	153422	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	23097	250.00	ug/L	#-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	87376	50.67	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.34%			
46) 1,2-Dichloroethane-d4	7.463	65	145863	57.96	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 115.92%			
57) Toluene-d8	9.285	98	320220	50.95	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.90%			
79) 4-Bromofluorobenzene	12.041	95	123692	41.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 83.94%			
Target Compounds						Qvalue
58) Toluene	9.344	91	5187	0.68	ug/L	79
70) Ethylbenzene	10.848	91	1384201	156.01	ug/L	99
73) m,p-Xylene	10.989	91	3407282	496.76	ug/L	93
74) o-Xylene	11.424	91	192920	26.72	ug/L	98
77) Isopropylbenzene	11.729	105	3657	0.44	ug/L	85

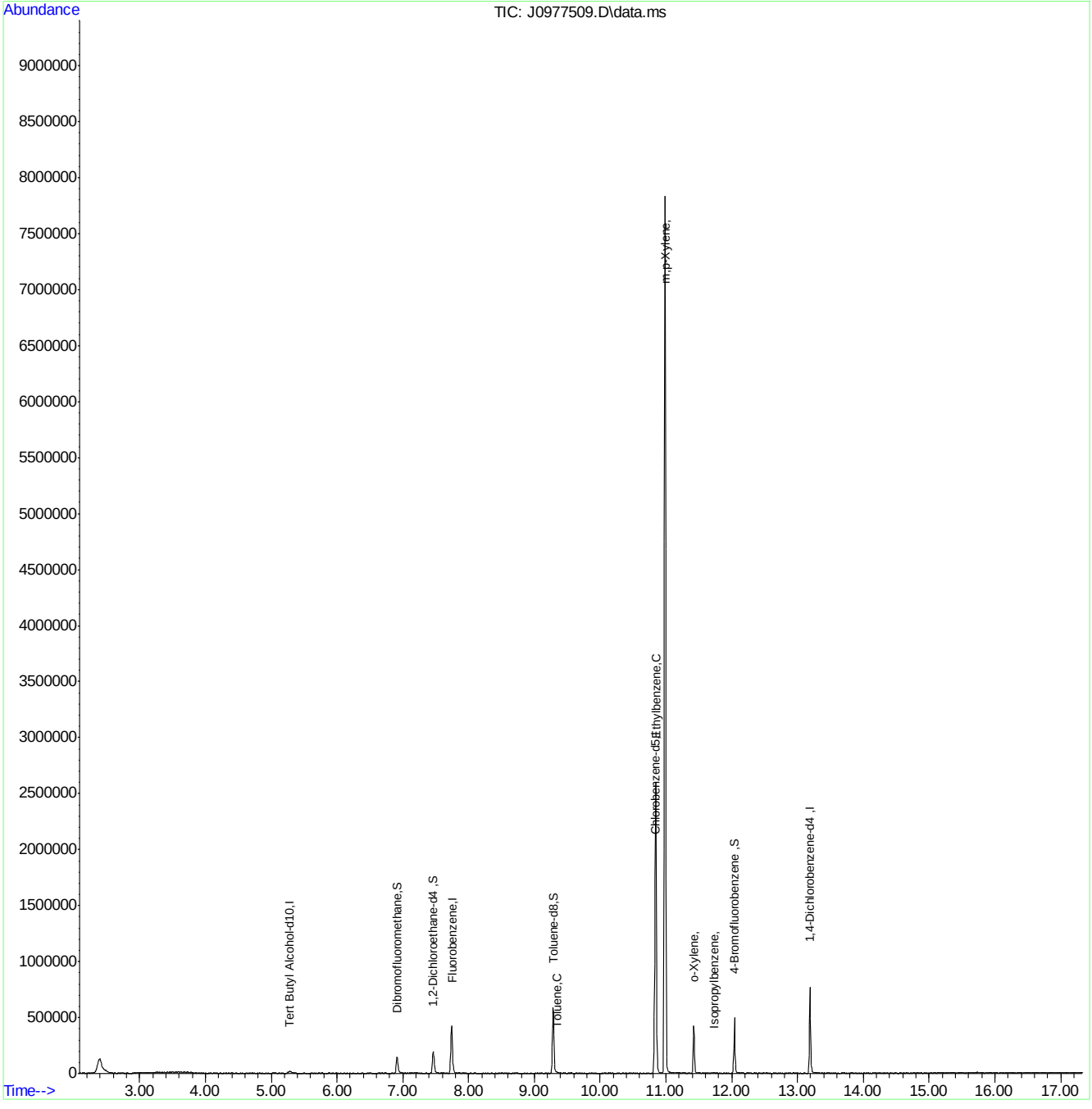
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34821

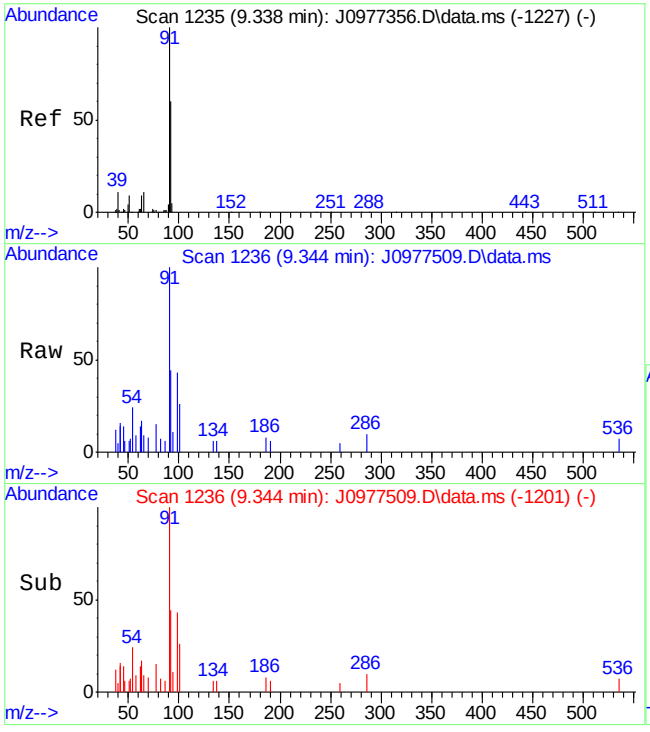
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977509.D
Acq On : 24 Jun 2016 3:52 pm
Operator : darshnap
Sample : fa34821-3 ma Inst : MSVOA6
Misc : MS34239,vj5348,,,,,100
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jun 25 10:11:01 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



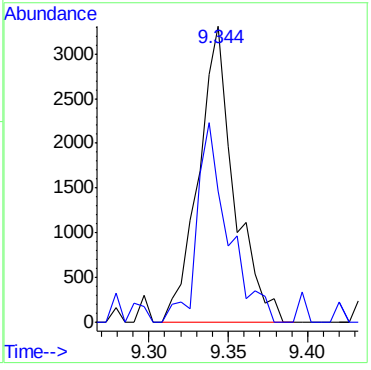
MSJ062116a.M Sat Jun 25 11:00:55 2016 Page: 2

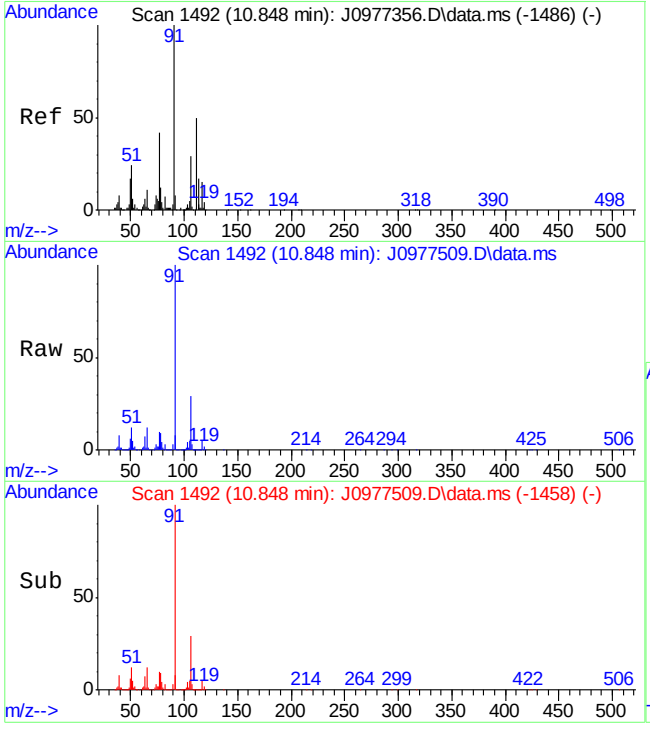


#58
Toluene
Concen: 0.68 ug/L
RT: 9.344 min Scan# 1236
Delta R.T. 0.006 min
Lab File: J0977509.D
Acq: 24 Jun 2016 3:52 pm

Tgt Ion: 91 Resp: 5187

Ion	Ratio	Lower	Upper
91	100		
92	44.4	30.0	90.0

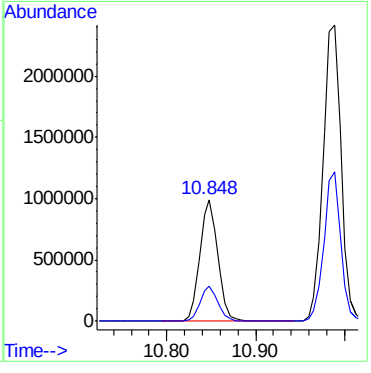


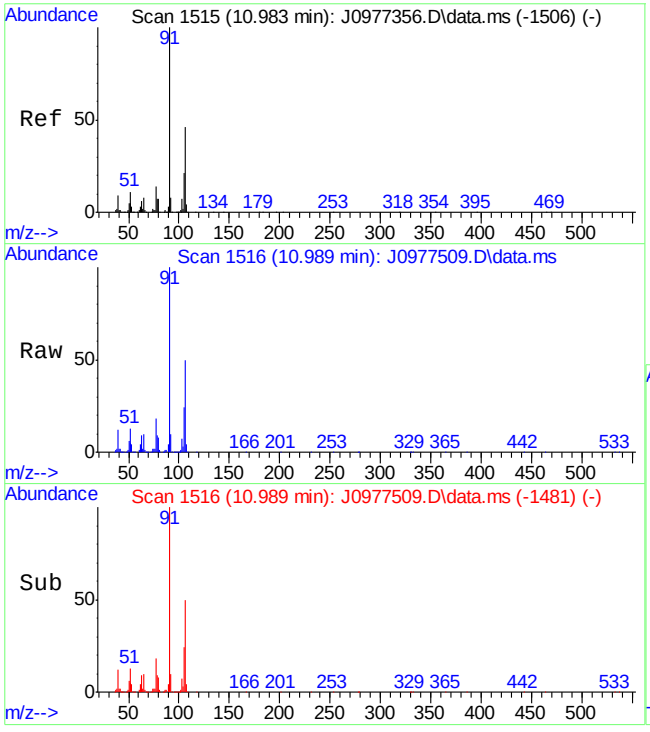


#70
Ethylbenzene
Concen: 156.01 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. 0.000 min
Lab File: J0977509.D
Acq: 24 Jun 2016 3:52 pm

Tgt Ion: 91 Resp: 1384201

Ion	Ratio	Lower	Upper
91	100		
106	28.8	0.0	59.4

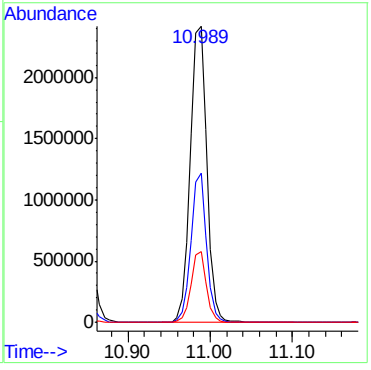


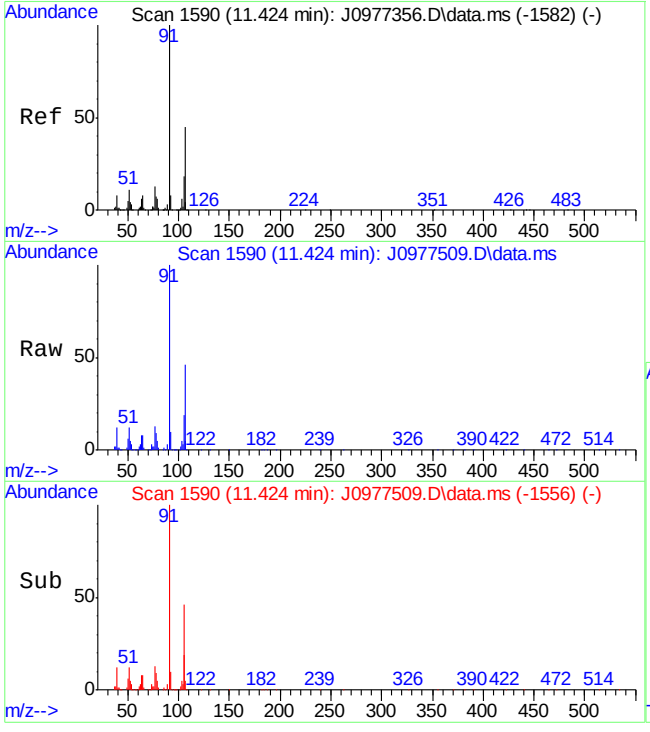


#73
m,p-Xylene
Concen: 496.76 ug/L
RT: 10.989 min Scan# 1516
Delta R.T. 0.006 min
Lab File: J0977509.D
Acq: 24 Jun 2016 3:52 pm

Tgt Ion: 91 Resp: 3407282

Ion	Ratio	Lower	Upper
91	100		
106	50.3	15.7	75.7
105	24.0	0.0	50.9

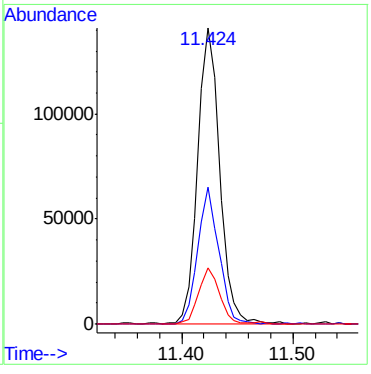


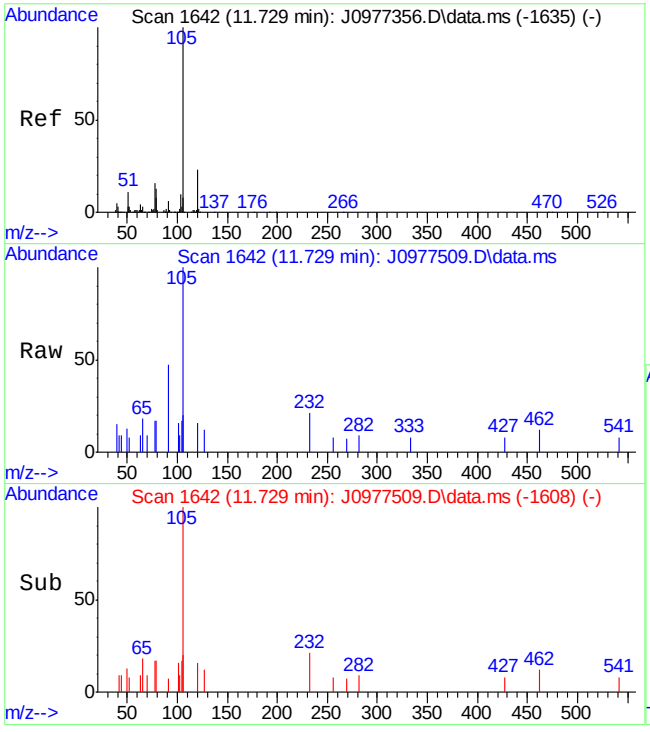


#74
o-Xylene
Concen: 26.72 ug/L
RT: 11.424 min Scan# 1590
Delta R.T. 0.000 min
Lab File: J0977509.D
Acq: 24 Jun 2016 3:52 pm

Tgt Ion: 91 Resp: 192920

Ion	Ratio	Lower	Upper
91	100		
106	46.1	15.4	75.4
105	19.1	0.0	47.9

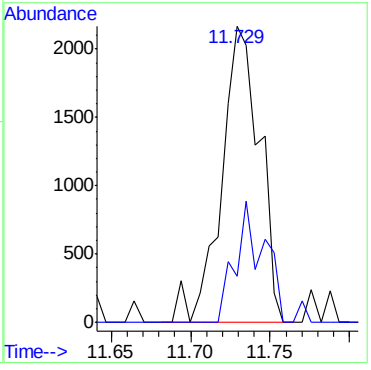




#77
Isopropylbenzene
Concen: 0.44 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977509.D
Acq: 24 Jun 2016 3:52 pm

Tgt Ion:105 Resp: 3657

Ion	Ratio	Lower	Upper
105	100		
120	15.6	0.0	52.9



7.1.3

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977587.D
Acq On : 27 Jun 2016 10:56 am
Operator : darshnap
Sample : fa34821-3 ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 13:30:48 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	458528	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	318635	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	149316	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	30525	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	117491	48.69	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.38%			
46) 1,2-Dichloroethane-d4	7.464	65	153679	43.64	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 87.28%			
57) Toluene-d8	9.285	98	427267	50.73	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.46%			
79) 4-Bromofluorobenzene	12.041	95	154312	53.79	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.58%			
Target Compounds						Qvalue
3) Chloromethane	2.898	50	4372	1.28	ug/L	64
23) Di-isopropyl ether	5.713	45	5868	0.66	ug/L	85
25) 1,1-Dichloroethane	5.883	63	5438	1.18	ug/L	70
44) Benzene	7.352	78	10220	1.08	ug/L	63
47) 1,2-Dichloroethane	7.528	62	3559	0.82	ug/L	73
58) Toluene	9.338	91	12530	1.23	ug/L	95
70) Ethylbenzene	10.848	91	263009	22.12	ug/L	90
73) m,p-Xylene	10.983	91	600433	65.33	ug/L	95
74) o-Xylene	11.424	91	39430	4.00	ug/L	84

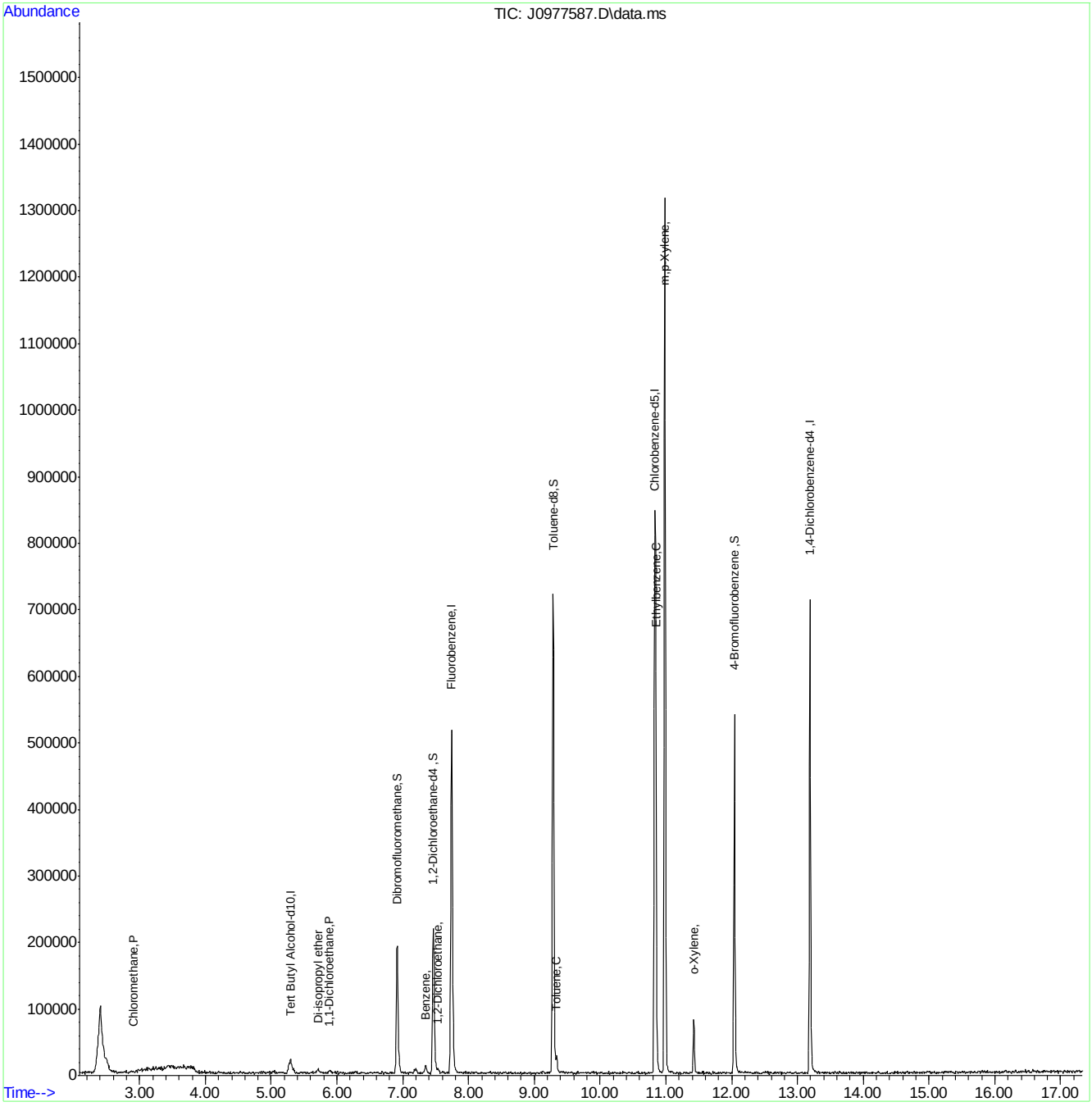
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34821

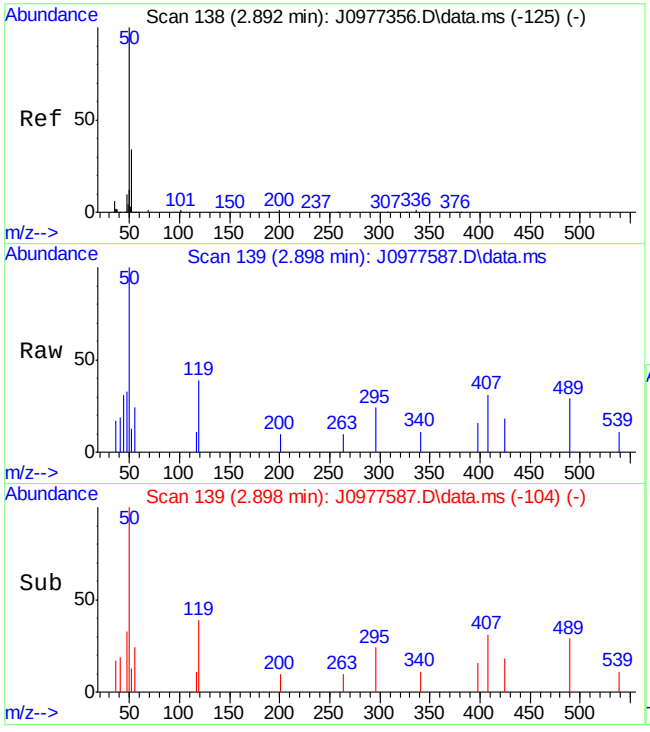
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977587.D
Acq On : 27 Jun 2016 10:56 am
Operator : darshnap
Sample : fa34821-3 ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,1000
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 27 13:30:48 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



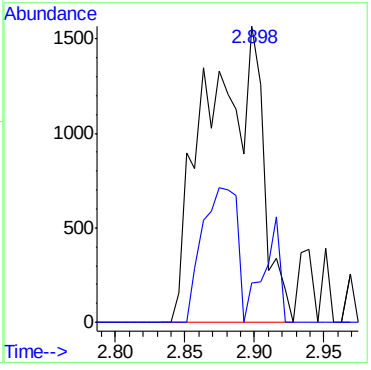
MSJ062116a.M Tue Jun 28 09:28:16 2016 Page: 2

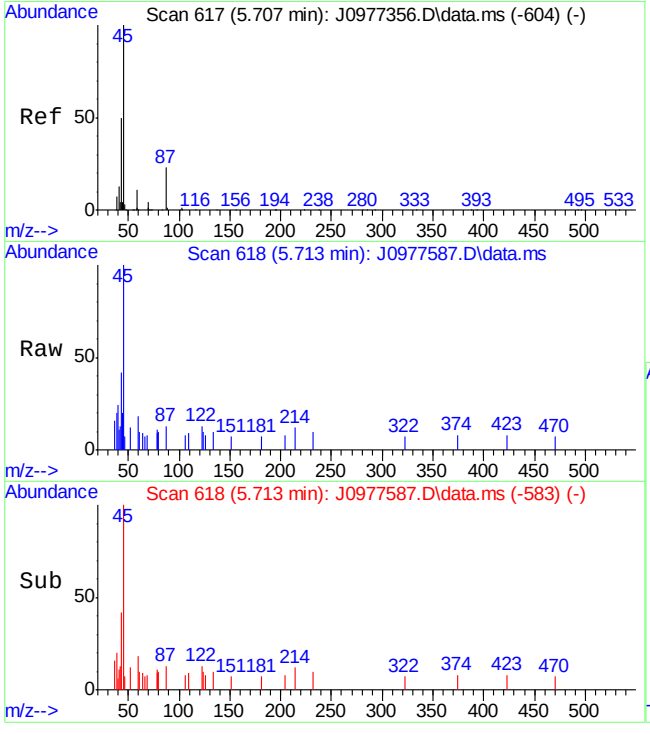


#3
Chloromethane
Concen: 1.28 ug/L
RT: 2.898 min Scan# 139
Delta R.T. 0.006 min
Lab File: J0977587.D
Acq: 27 Jun 2016 10:56 am

Tgt Ion: 50 Resp: 4372

Ion	Ratio	Lower	Upper
50	100		
52	13.5	4.4	64.4

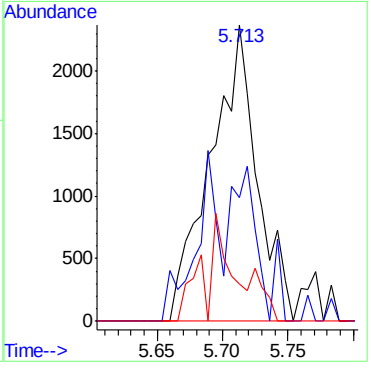


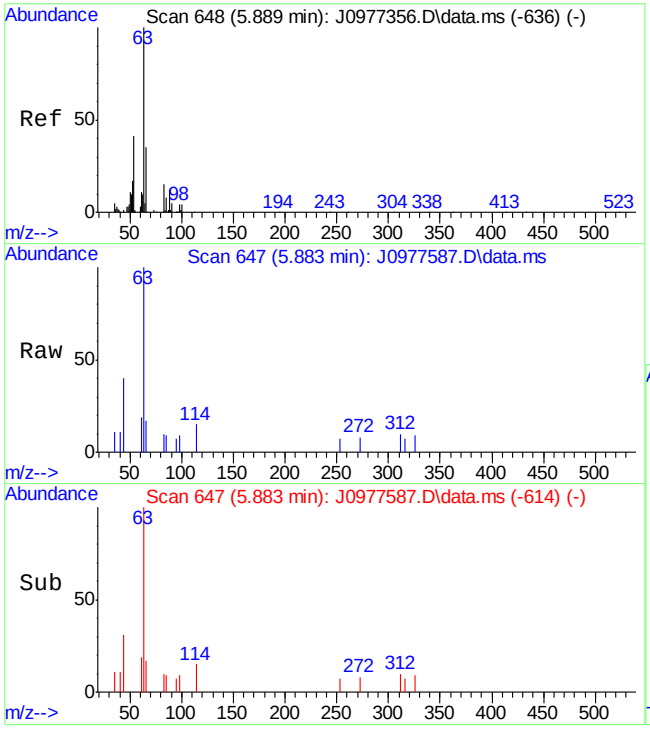


#23
Di-isopropyl ether
Concen: 0.66 ug/L
RT: 5.713 min Scan# 618
Delta R.T. 0.006 min
Lab File: J0977587.D
Acq: 27 Jun 2016 10:56 am

Tgt Ion: 45 Resp: 5868

Ion	Ratio	Lower	Upper
45	100		
43	41.7	19.6	79.6
87	12.5	0.0	52.7

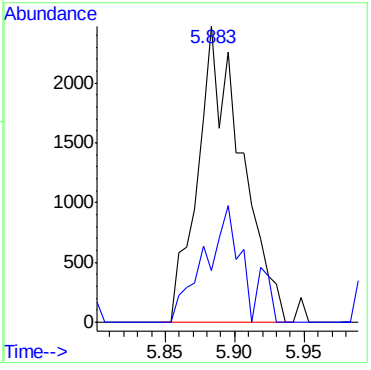


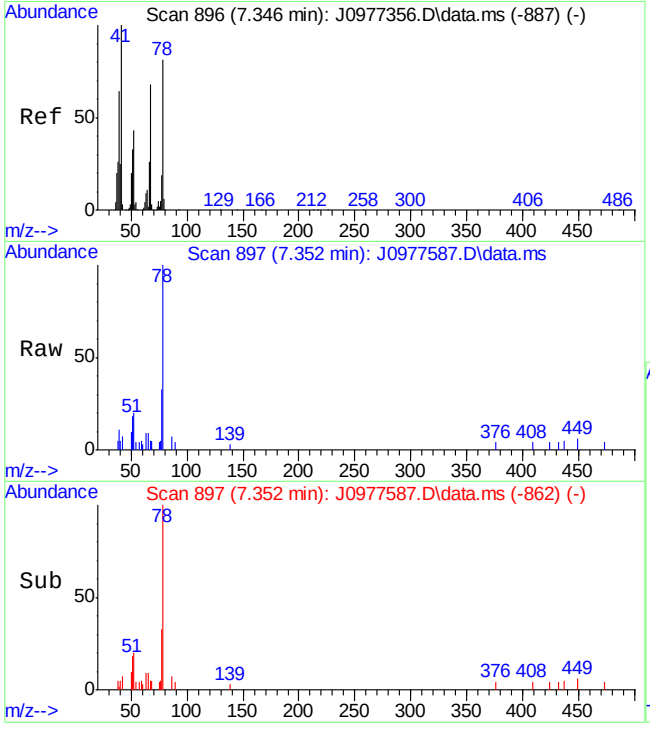


#25
1,1-Dichloroethane
Concen: 1.18 ug/L
RT: 5.883 min Scan# 647
Delta R.T. -0.006 min
Lab File: J0977587.D
Acq: 27 Jun 2016 10:56 am

Tgt Ion: 63 Resp: 5438

Ion	Ratio	Lower	Upper
63	100		
65	17.4	4.5	64.5

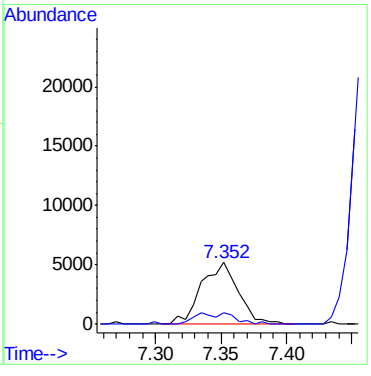


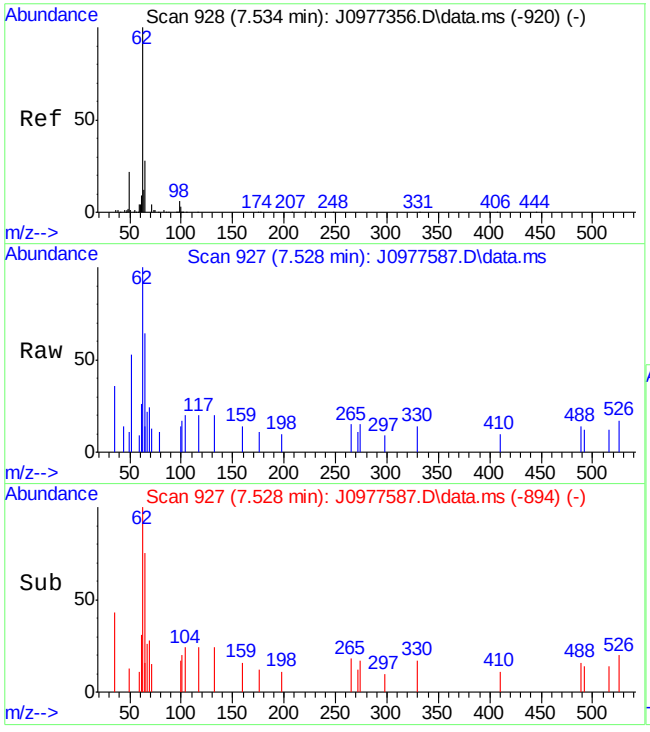


#44
Benzene
Concen: 1.08 ug/L
RT: 7.352 min Scan# 897
Delta R.T. 0.006 min
Lab File: J0977587.D
Acq: 27 Jun 2016 10:56 am

Tgt Ion: 78 Resp: 10220

Ion	Ratio	Lower	Upper
78	100		
51	17.7	10.9	70.9

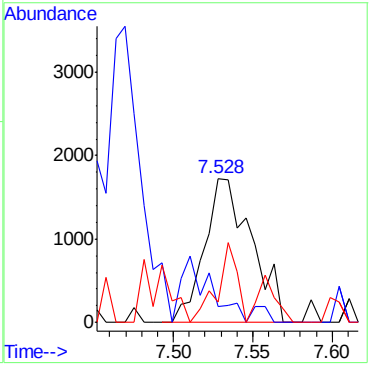


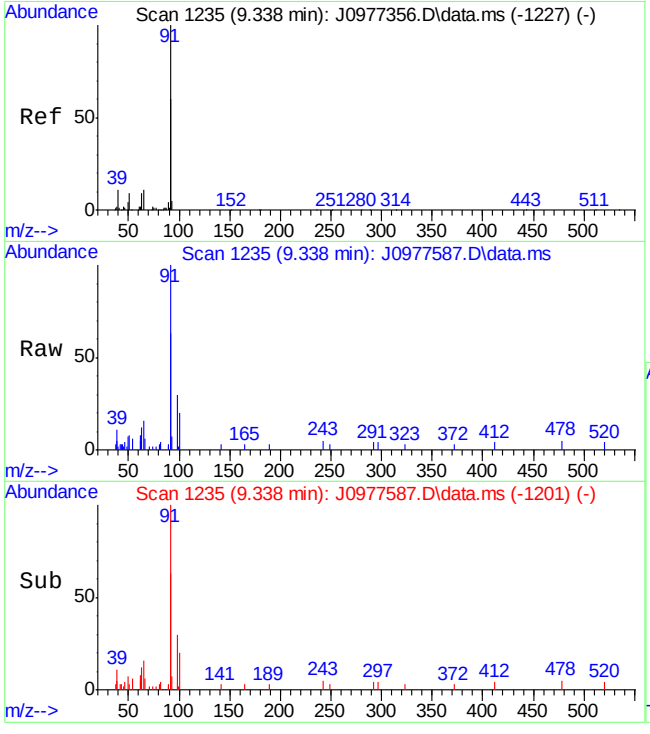


#47
1,2-Dichloroethane
Concen: 0.82 ug/L
RT: 7.528 min Scan# 927
Delta R.T. -0.006 min
Lab File: J0977587.D
Acq: 27 Jun 2016 10:56 am

Tgt Ion: 62 Resp: 3559

Ion	Ratio	Lower	Upper
62	100		
49	11.0	0.0	53.0
64	13.7	0.0	59.0

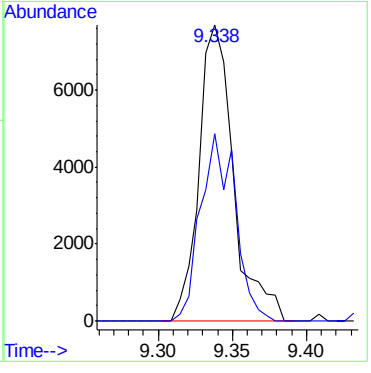


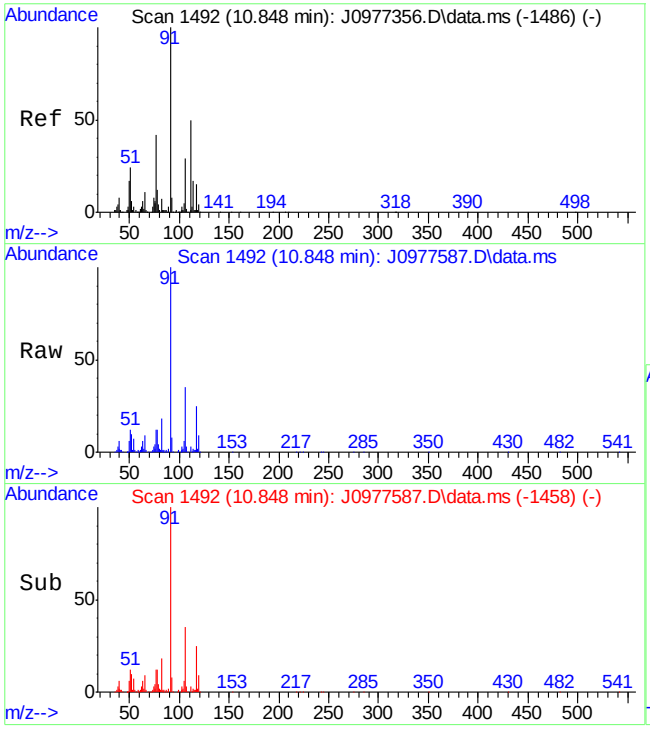


#58
Toluene
Concen: 1.23 ug/L
RT: 9.338 min Scan# 1235
Delta R.T. -0.000 min
Lab File: J0977587.D
Acq: 27 Jun 2016 10:56 am

Tgt Ion: 91 Resp: 12530

Ion	Ratio	Lower	Upper
91	100		
92	63.5	30.0	90.0

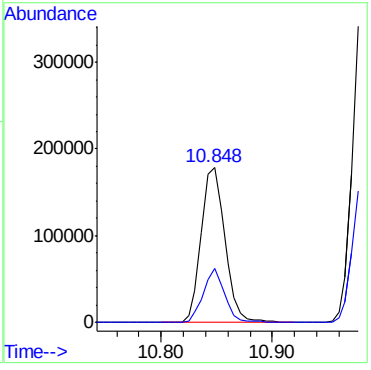


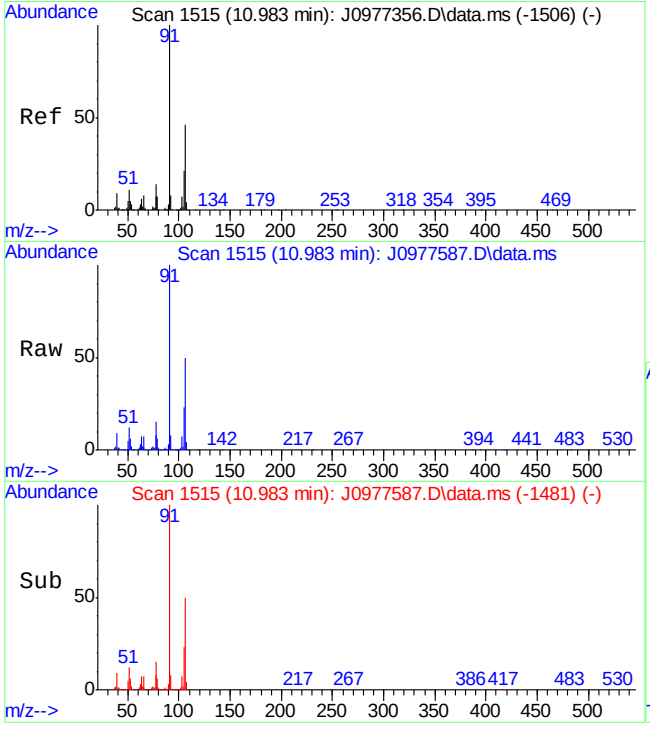


#70
Ethylbenzene
Concen: 22.12 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. 0.000 min
Lab File: J0977587.D
Acq: 27 Jun 2016 10:56 am

Tgt Ion: 91 Resp: 263009

Ion	Ratio	Lower	Upper
91	100		
106	34.9	0.0	59.4

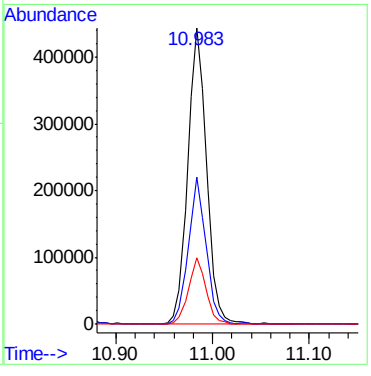




#73
m,p-Xylene
Concen: 65.33 ug/L
RT: 10.983 min Scan# 1515
Delta R.T. 0.000 min
Lab File: J0977587.D
Acq: 27 Jun 2016 10:56 am

Tgt Ion: 91 Resp: 600433

Ion	Ratio	Lower	Upper
91	100		
106	49.5	15.7	75.7
105	22.6	0.0	50.9



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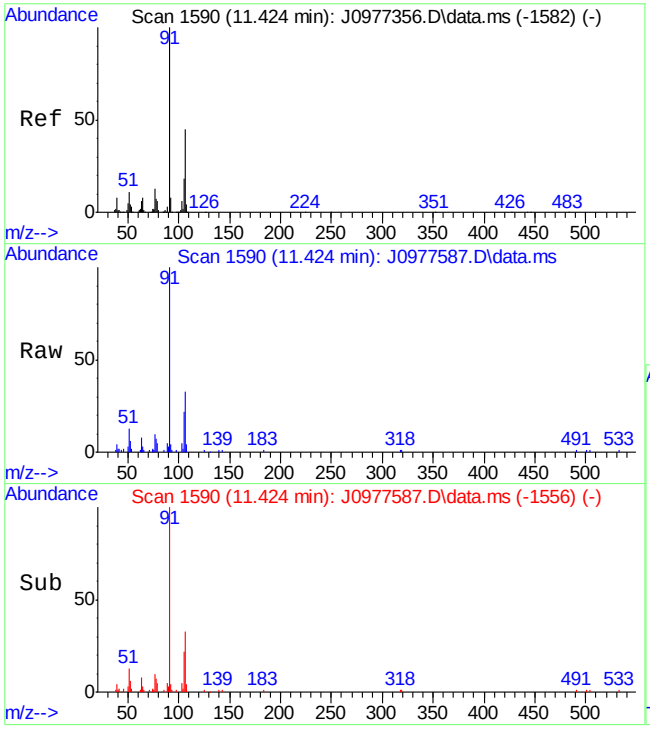
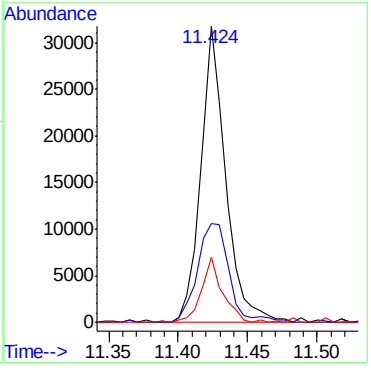


#74
o-Xylene
Concen: 4.00 ug/L
RT: 11.424 min Scan# 1590
Delta R.T. 0.000 min
Lab File: J0977587.D
Acq: 27 Jun 2016 10:56 am

Tgt Ion: 91 Resp: 39430

Ion	Ratio	Lower	Upper
91	100		
106	33.2	15.4	75.4
105	21.6	0.0	47.9



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977586.D
Acq On : 27 Jun 2016 10:33 am
Operator : darshnap
Sample : fa34821-4 ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:30:04 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	489966	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	340820	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	156850	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	26567	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	121239	47.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 94.02%			
46) 1,2-Dichloroethane-d4	7.463	65	158656	42.16	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 84.32%			
57) Toluene-d8	9.285	98	479763	53.26	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.52%			
79) 4-Bromofluorobenzene	12.041	95	165187	54.82	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.64%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.313	73	36009	4.55	ug/L	75
23) Di-isopropyl ether	5.713	45	6115	0.64	ug/L #	56
44) Benzene	7.352	78	2848	0.28	ug/L #	34
70) Ethylbenzene	10.848	91	149047	11.72	ug/L	98
73) m,p-Xylene	10.983	91	369494	37.59	ug/L	94
74) o-Xylene	11.424	91	20399	1.93	ug/L	87
77) Isopropylbenzene	11.729	105	11565	0.97	ug/L	93
112) 1,4-Dioxane	8.662	88	2513	183.74	ug/L	71

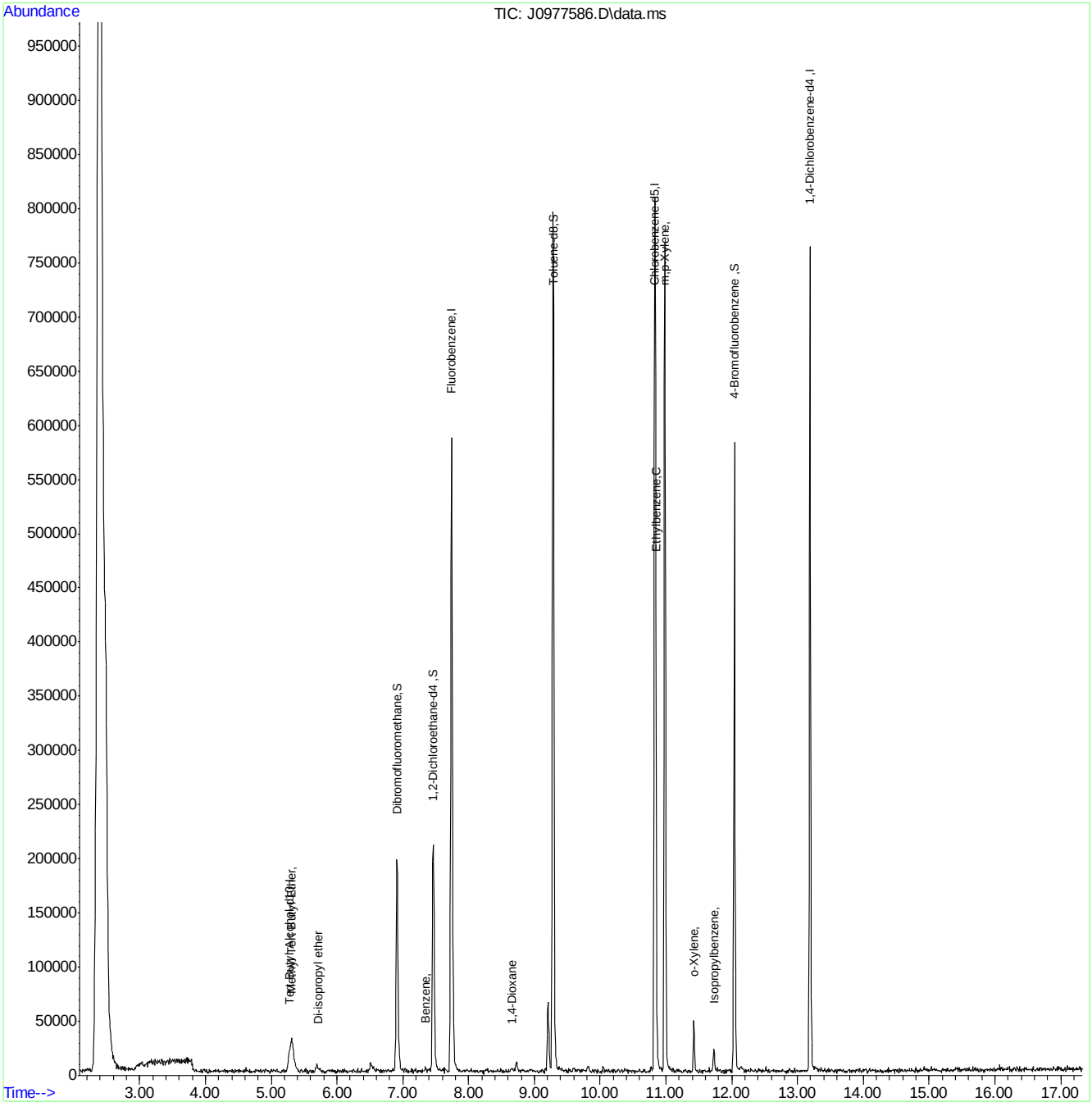
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34821

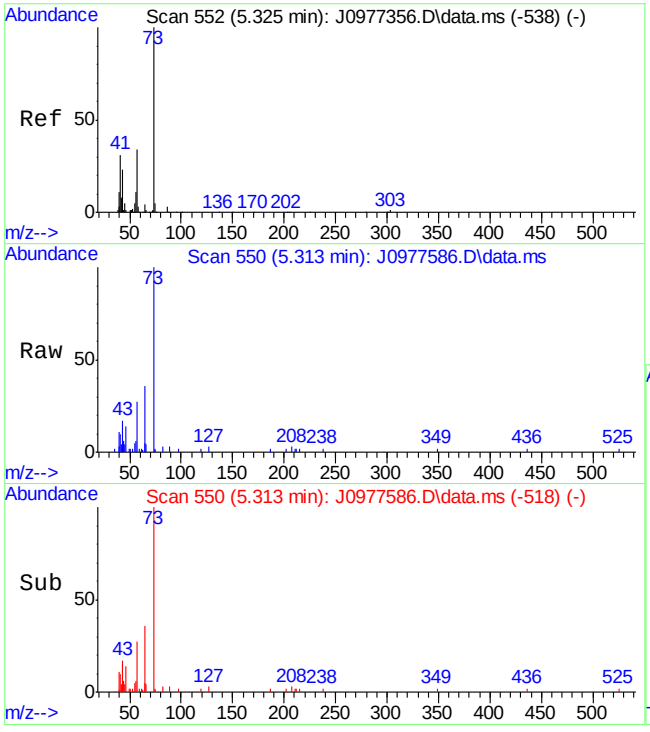
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977586.D
Acq On : 27 Jun 2016 10:33 am
Operator : darshnap
Sample : fa34821-4 ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 27 13:30:04 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



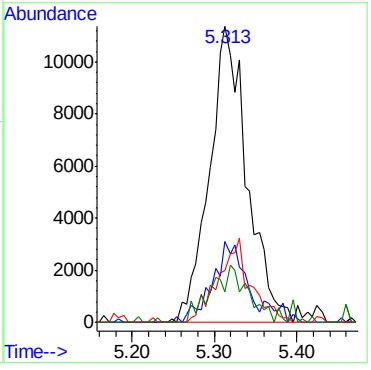
MSJ062116a.M Tue Jun 28 09:28:13 2016 Page: 2

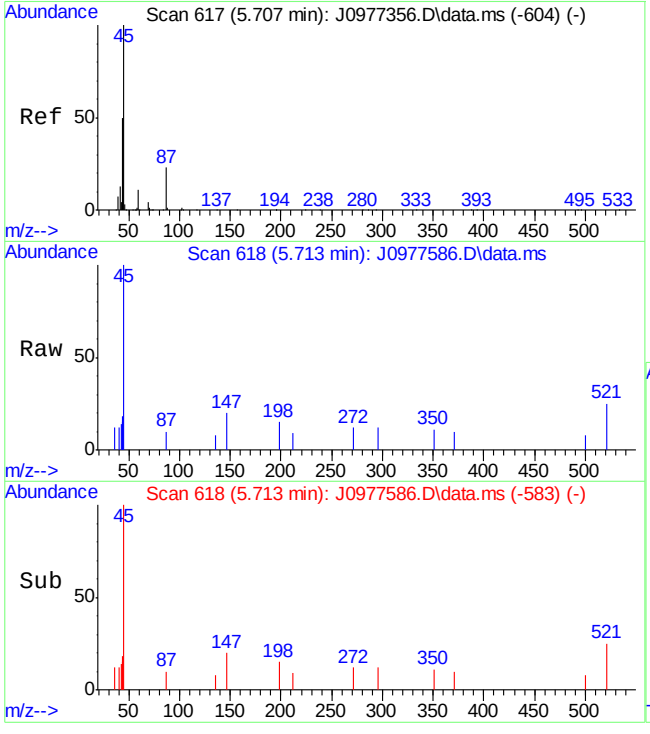


#21
Methyl Tert Butyl Ether
Concen: 4.55 ug/L
RT: 5.313 min Scan# 550
Delta R.T. -0.012 min
Lab File: J0977586.D
Acq: 27 Jun 2016 10:33 am

Tgt Ion: 73 Resp: 36009

Ion	Ratio	Lower	Upper
73	100		
57	27.2	5.3	65.3
43	17.5	0.7	60.7
41	10.4	1.7	61.7

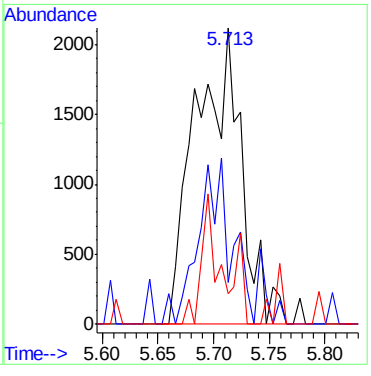


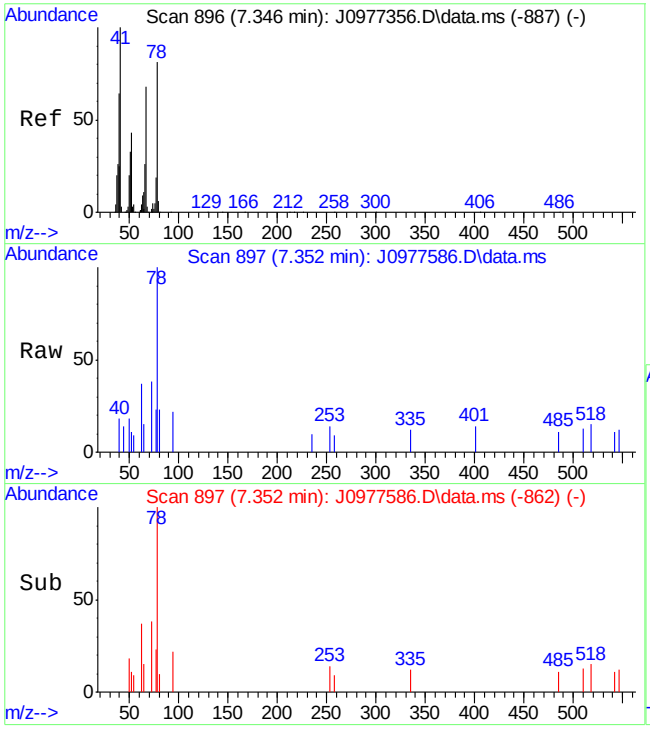


#23
Di-isopropyl ether
Concen: 0.64 ug/L
RT: 5.713 min Scan# 618
Delta R.T. 0.006 min
Lab File: J0977586.D
Acq: 27 Jun 2016 10:33 am

Tgt Ion: 45 Resp: 6115

Ion	Ratio	Lower	Upper
45	100		
43	14.1	19.6	79.6#
87	10.2	0.0	52.7

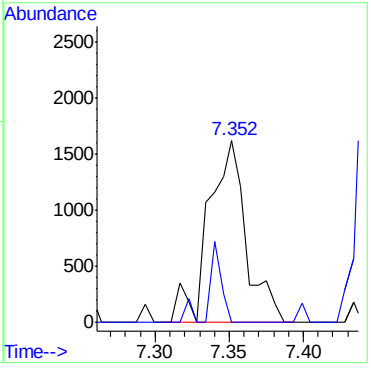


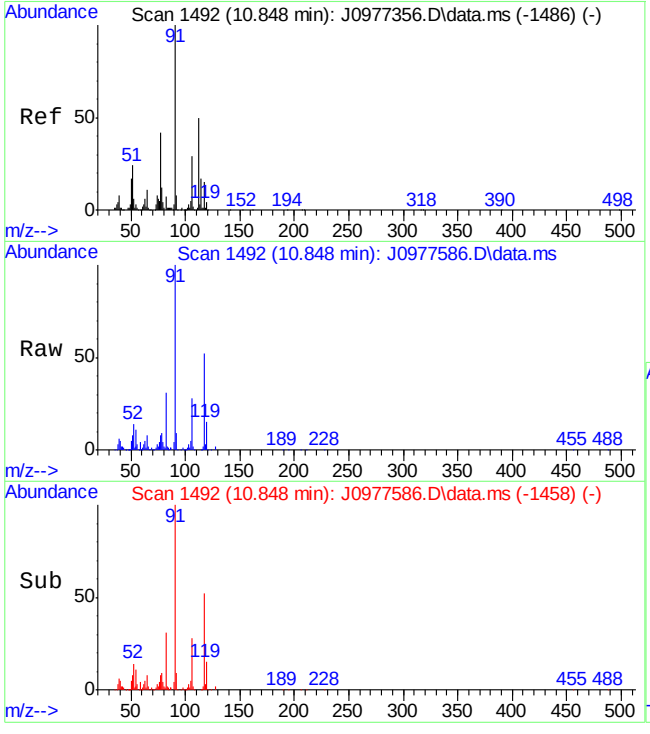


#44
Benzene
Concen: 0.28 ug/L
RT: 7.352 min Scan# 897
Delta R.T. 0.006 min
Lab File: J0977586.D
Acq: 27 Jun 2016 10:33 am

Tgt Ion: 78 Resp: 2848

Ion	Ratio	Lower	Upper
78	100		
51	0.0	10.9	70.9#

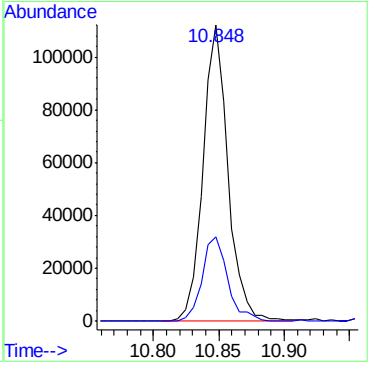


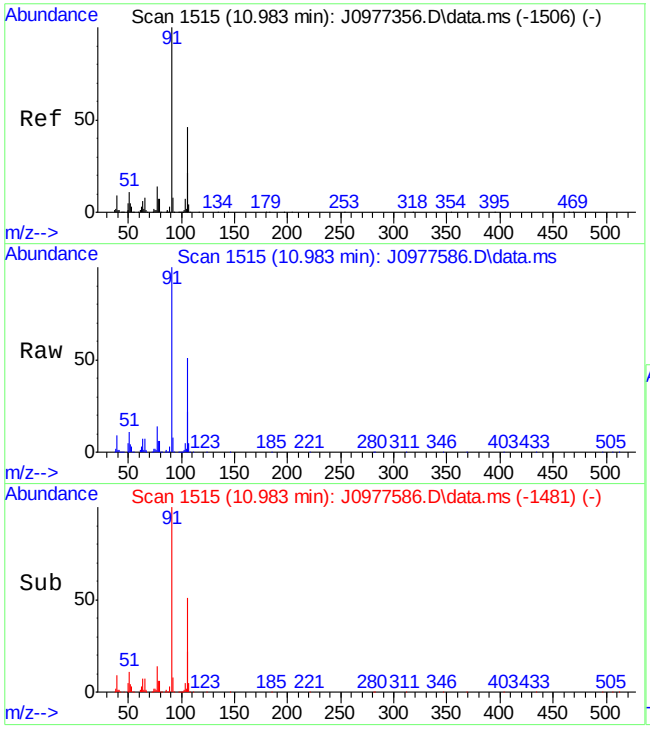


#70
Ethylbenzene
Concen: 11.72 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. 0.000 min
Lab File: J0977586.D
Acq: 27 Jun 2016 10:33 am

Tgt Ion: 91 Resp: 149047

Ion	Ratio	Lower	Upper
91	100		
106	28.3	0.0	59.4

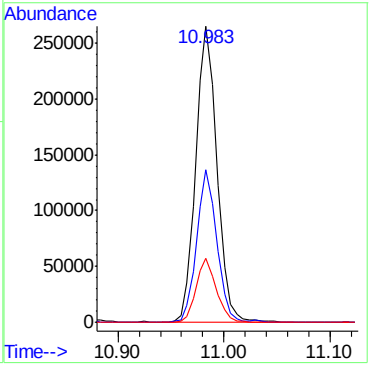


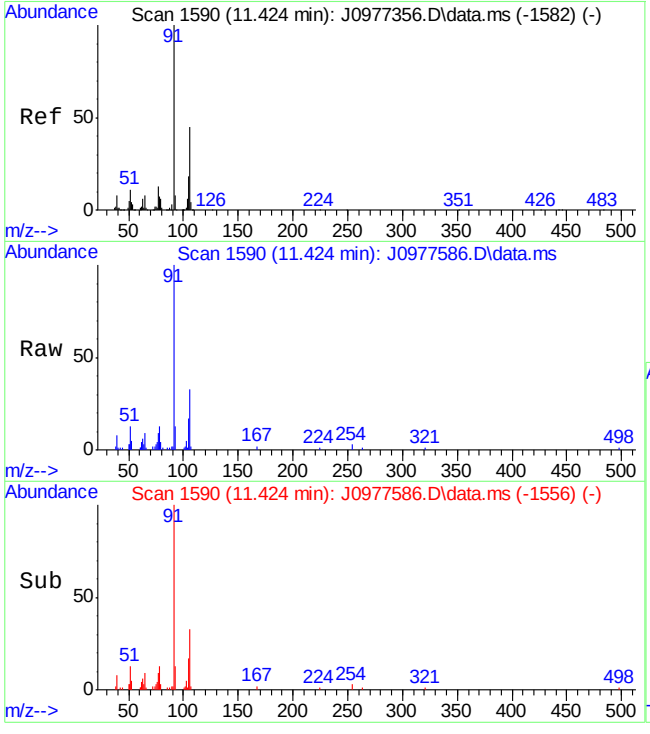


#73
m,p-Xylene
Concen: 37.59 ug/L
RT: 10.983 min Scan# 1515
Delta R.T. 0.000 min
Lab File: J0977586.D
Acq: 27 Jun 2016 10:33 am

Tgt Ion: 91 Resp: 369494

Ion	Ratio	Lower	Upper
91	100		
106	51.5	15.7	75.7
105	21.6	0.0	50.9

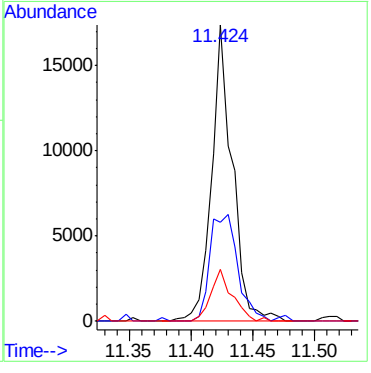


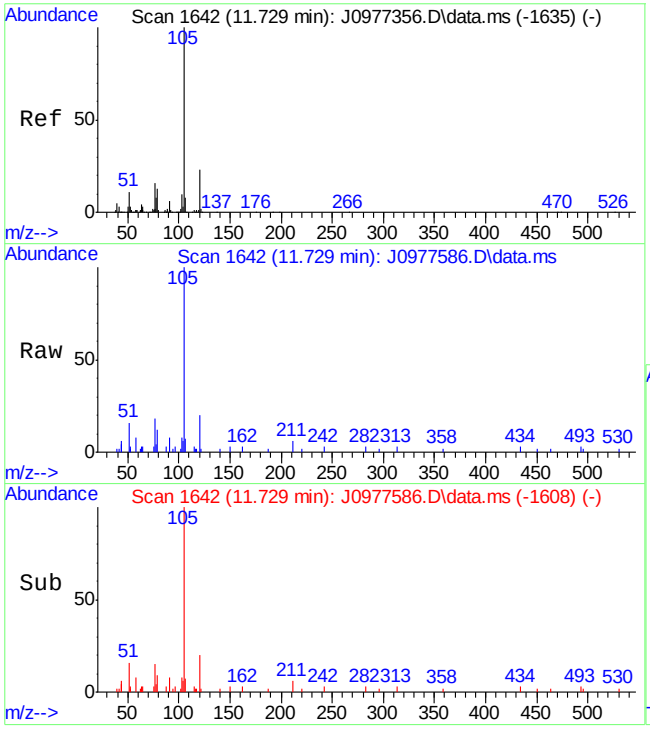


#74
o-Xylene
Concen: 1.93 ug/L
RT: 11.424 min Scan# 1590
Delta R.T. 0.000 min
Lab File: J0977586.D
Acq: 27 Jun 2016 10:33 am

Tgt Ion: 91 Resp: 20399

Ion	Ratio	Lower	Upper
91	100		
106	33.3	15.4	75.4
105	17.4	0.0	47.9

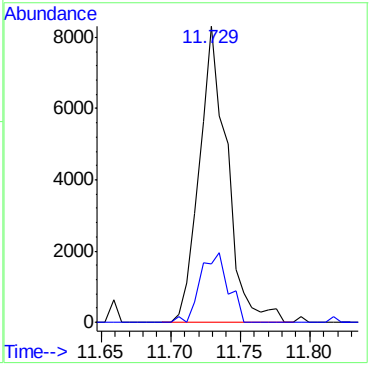


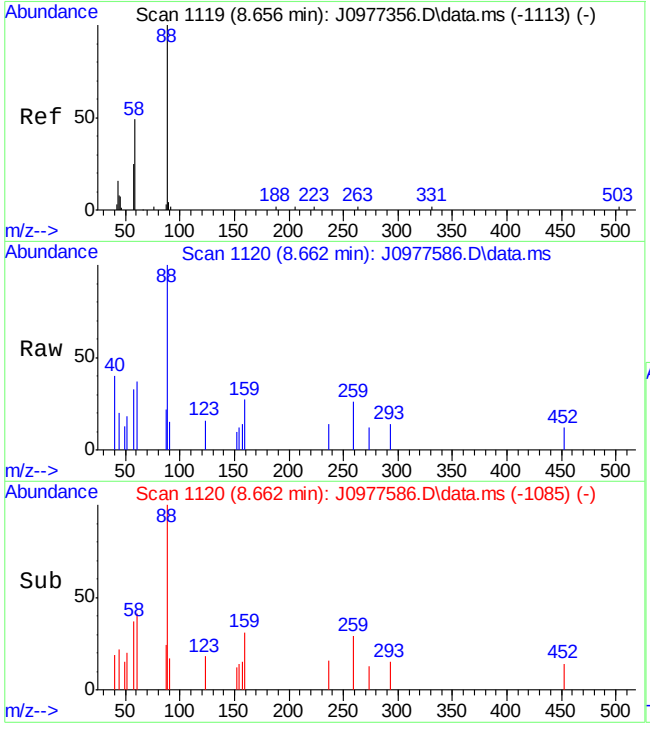


#77
Isopropylbenzene
Concen: 0.97 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977586.D
Acq: 27 Jun 2016 10:33 am

Tgt Ion:105 Resp: 11565

Ion	Ratio	Lower	Upper
105	100		
120	19.7	0.0	52.9

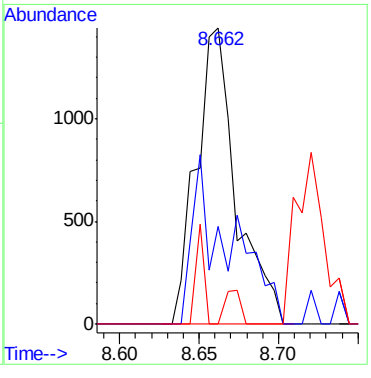




#112
1,4-Dioxane
Concen: 183.74 ug/L
RT: 8.662 min Scan# 1120
Delta R.T. 0.006 min
Lab File: J0977586.D
Acq: 27 Jun 2016 10:33 am

Tgt Ion: 88 Resp: 2513

Ion	Ratio	Lower	Upper
88	100		
58	33.0	19.2	79.2
43	0.0	0.0	49.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977511.D
Acq On : 24 Jun 2016 4:39 pm
Operator : darshnap
Sample : fa34821-5 ma Inst : MSVOA6
Misc : MS34239,vj5348,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 25 10:13:36 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

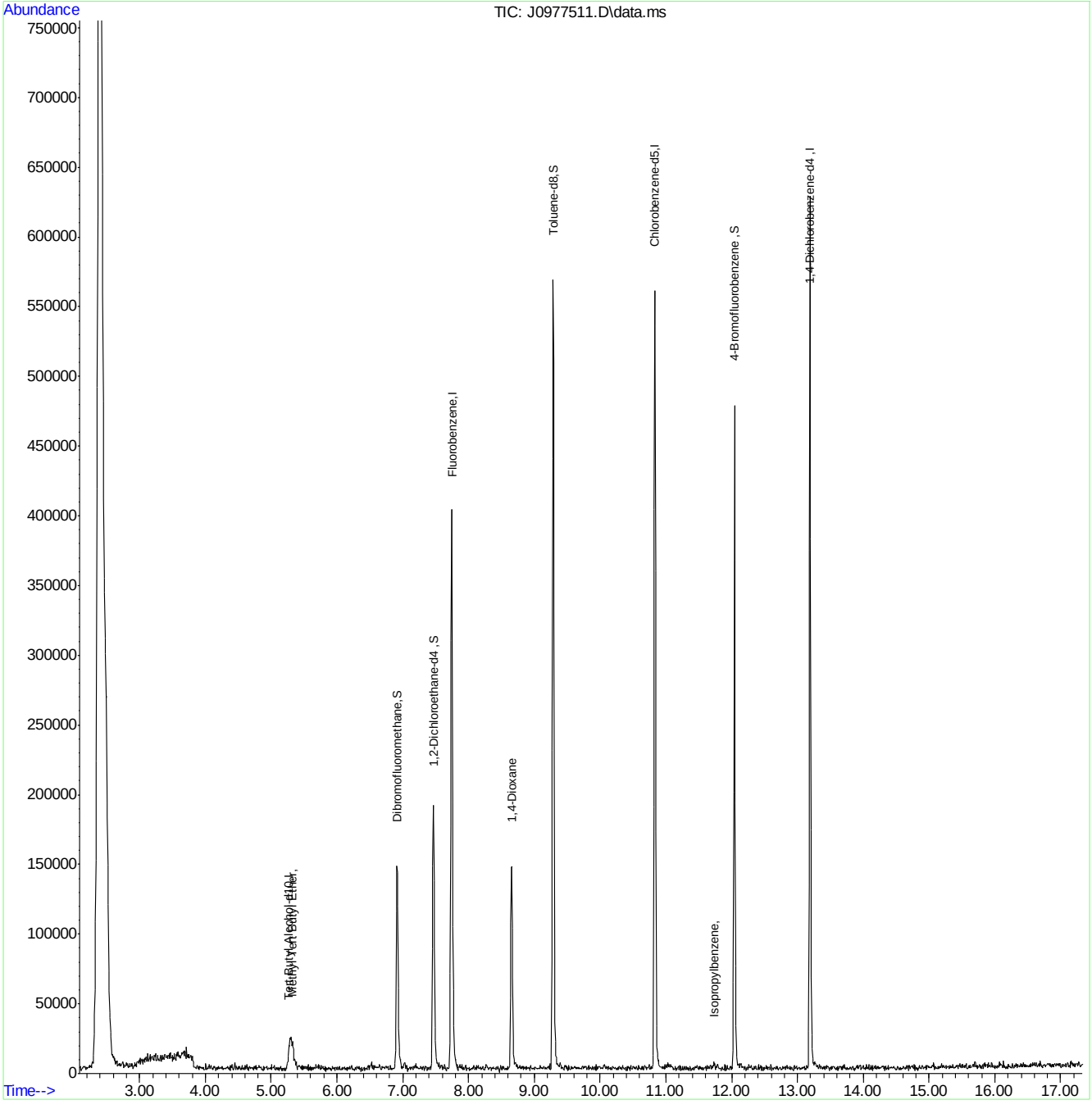
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	315382	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	221187	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	121762	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	26394	250.00	ug/L	#-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	85426	51.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.94%			
46) 1,2-Dichloroethane-d4	7.470	65	142712	58.92	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 117.84%			
57) Toluene-d8	9.285	98	304889	52.15	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.30%			
79) 4-Bromofluorobenzene	12.041	95	118117	50.49	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.98%			
Target Compounds						Qvalue
21) Methyl Tert Butyl Ether	5.325	73	16588	3.26	ug/L	72
77) Isopropylbenzene	11.729	105	2527	0.33	ug/L	86
112) 1,4-Dioxane	8.656	88	85517	7358.10	ug/L	62

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

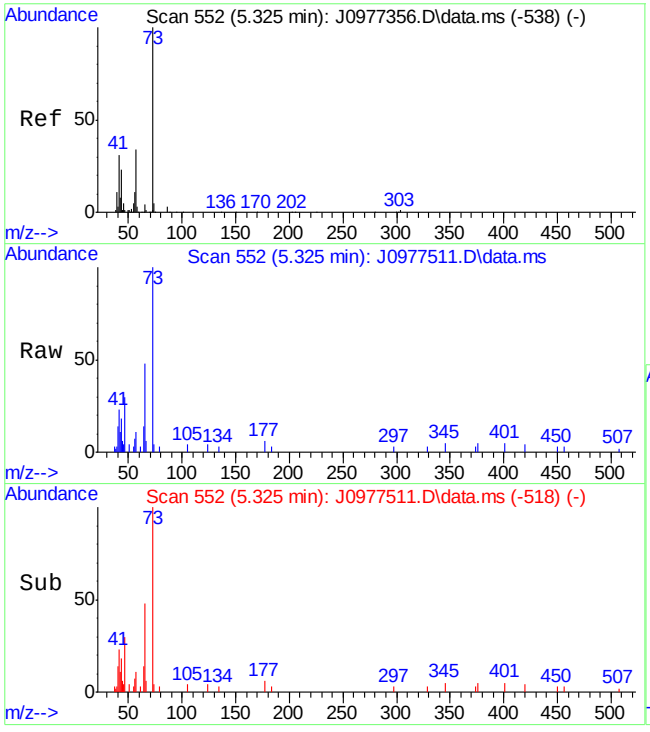
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977511.D
Acq On : 24 Jun 2016 4:39 pm
Operator : darshnap
Sample : fa34821-5 ma Inst : MSVOA6
Misc : MS34239,vj5348,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 25 10:13:36 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



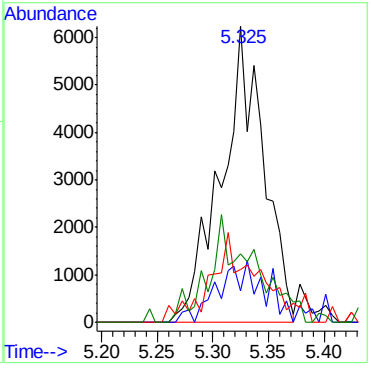
MSJ062116a.M Sat Jun 25 11:01:00 2016 Page: 2

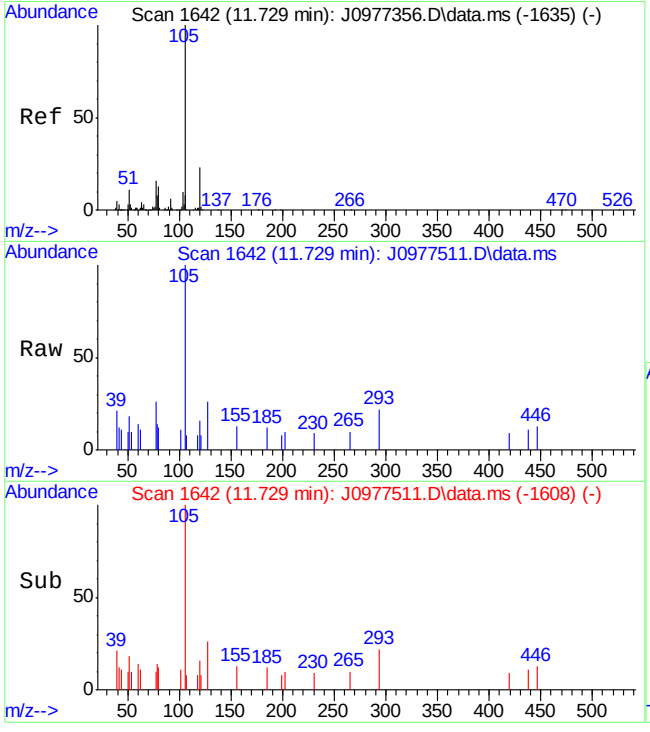


#21
Methyl Tert Butyl Ether
Concen: 3.26 ug/L
RT: 5.325 min Scan# 552
Delta R.T. -0.000 min
Lab File: J0977511.D
Acq: 24 Jun 2016 4:39 pm

Tgt Ion: 73 Resp: 16588

Ion	Ratio	Lower	Upper
73	100		
57	10.6	5.3	65.3
43	17.7	0.7	60.7
41	23.0	1.7	61.7

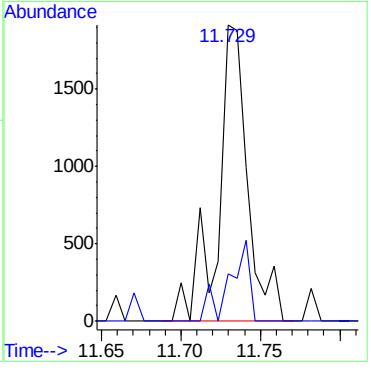




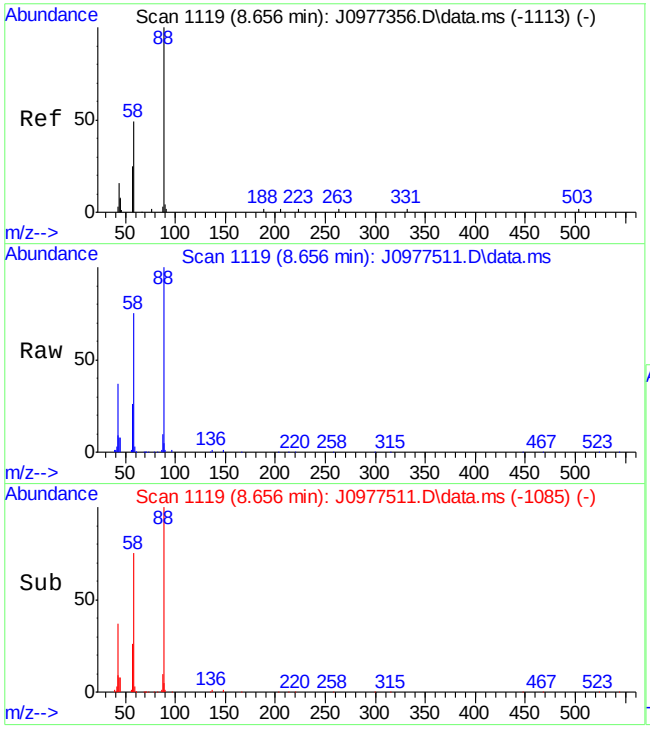
#77
Isopropylbenzene
Concen: 0.33 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.000 min
Lab File: J0977511.D
Acq: 24 Jun 2016 4:39 pm

Tgt Ion:105 Resp: 2527

Ion	Ratio	Lower	Upper
105	100		
120	16.0	0.0	52.9



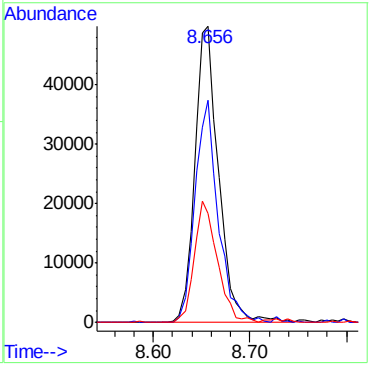
SGS ACCUTEST FA34821



#112
1,4-Dioxane
Concen: 7358.10 ug/L
RT: 8.656 min Scan# 1119
Delta R.T. 0.000 min
Lab File: J0977511.D
Acq: 24 Jun 2016 4:39 pm

Tgt Ion: 88 Resp: 85517

Ion	Ratio	Lower	Upper
88	100		
58	74.9	19.2	79.2
43	36.8	0.0	49.1



7.1.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977512.D
Acq On : 24 Jun 2016 5:02 pm
Operator : darshnap
Sample : fa34821-6 ma Inst : MSVOA6
Misc : MS34239,vj5348,,,,,50
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 25 10:14:18 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.745	96	318993	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	230304	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	122432	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	25167	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	87686	52.23	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.46%			
46) 1,2-Dichloroethane-d4	7.463	65	145827	59.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 119.04%			
57) Toluene-d8	9.285	98	315536	51.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.66%			
79) 4-Bromofluorobenzene	12.040	95	121840	51.80	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.60%			
Target Compounds						Qvalue
70) Ethylbenzene	10.848	91	1125382	130.96	ug/L	99
73) m,p-Xylene	10.983	91	2740676	412.57	ug/L	98
74) o-Xylene	11.424	91	160556	22.88	ug/L	99
77) Isopropylbenzene	11.735	105	2587	0.32	ug/L	89

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

7.1.7

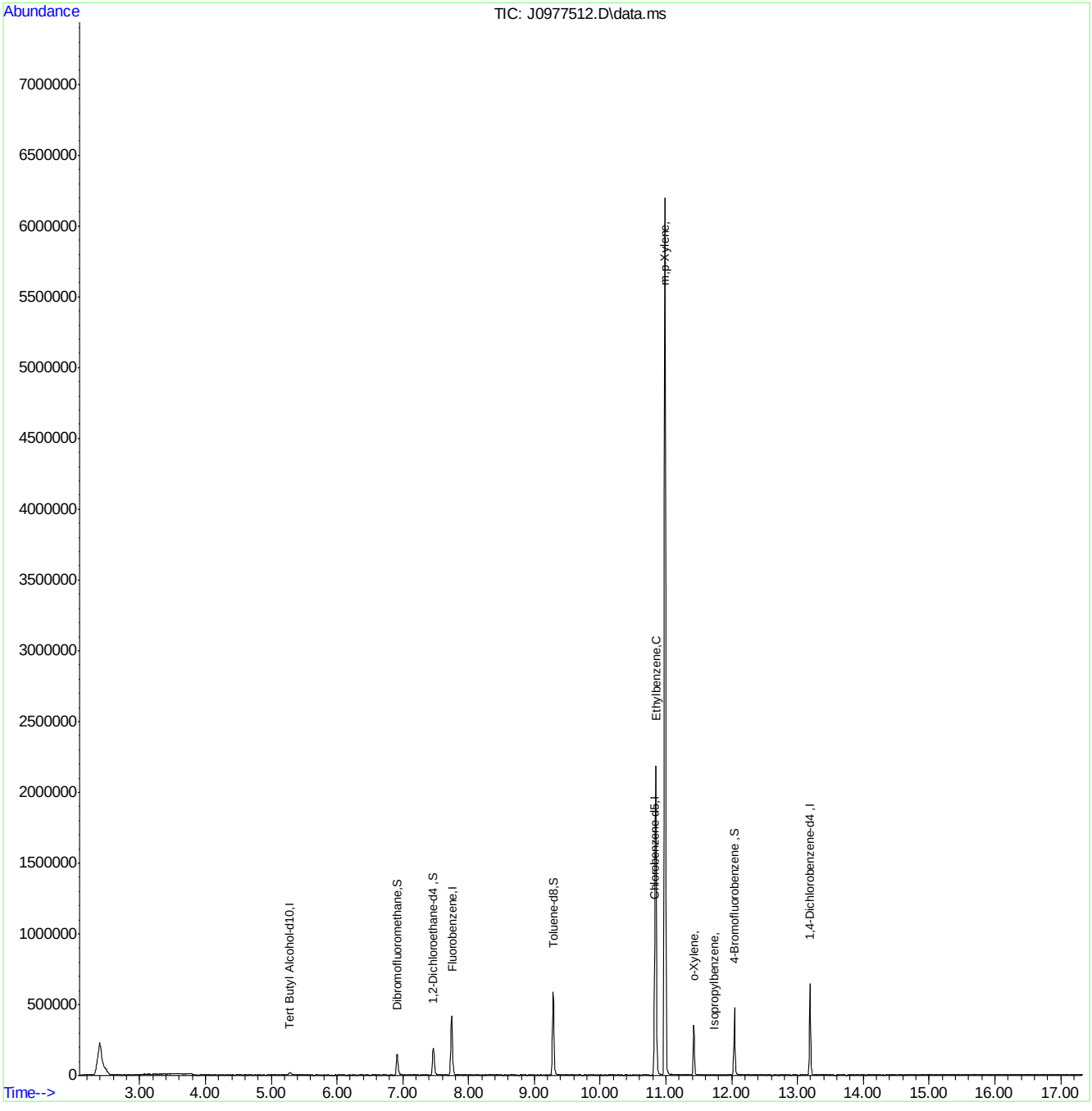
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977512.D
Acq On : 24 Jun 2016 5:02 pm
Operator : darshnap
Sample : fa34821-6 ma Inst : MSVOA6
Misc : MS34239,vj5348,,,,,50
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Jun 25 10:14:18 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



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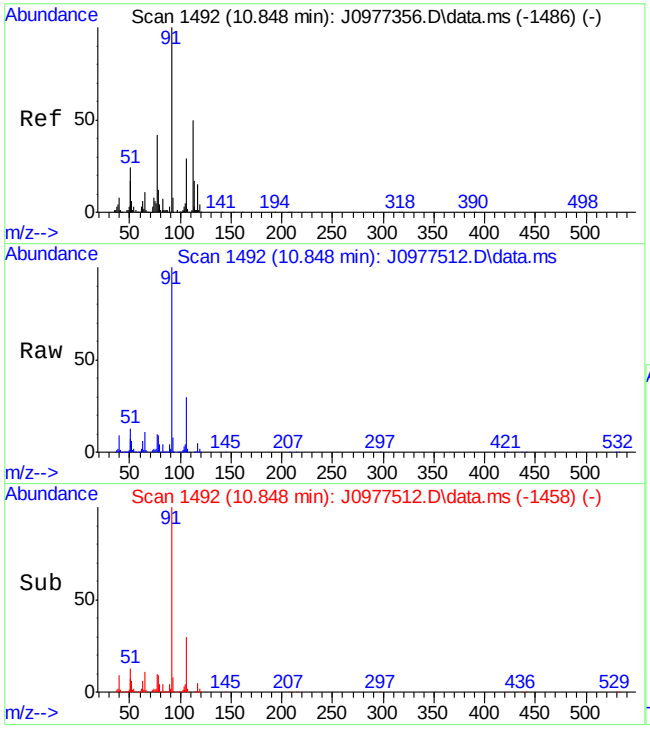
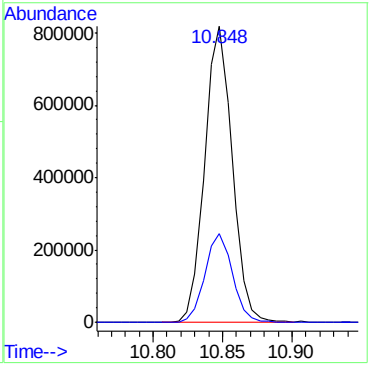
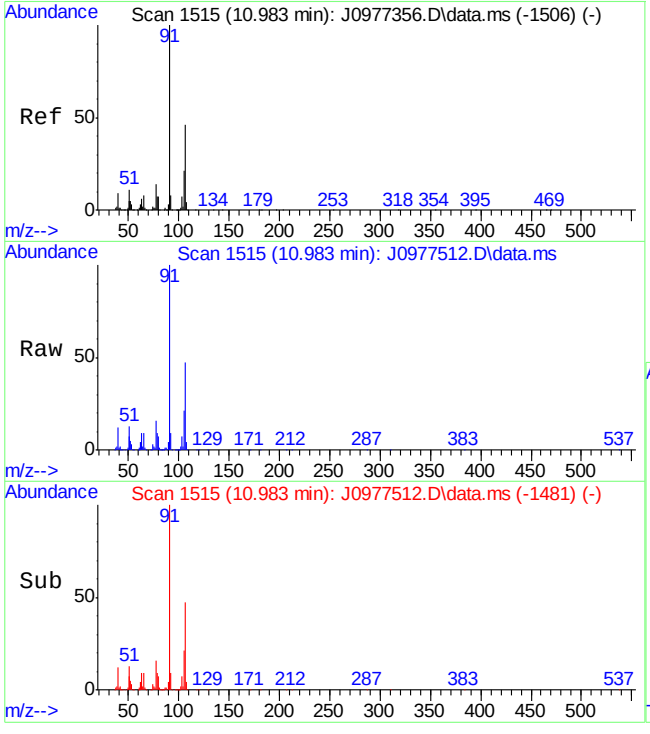


#70
Ethylbenzene
Concen: 130.96 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. 0.000 min
Lab File: J0977512.D
Acq: 24 Jun 2016 5:02 pm

Tgt Ion: 91 Resp: 1125382

Ion	Ratio	Lower	Upper
91	100		
106	30.1	0.0	59.4

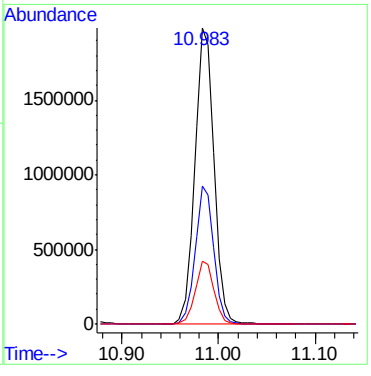


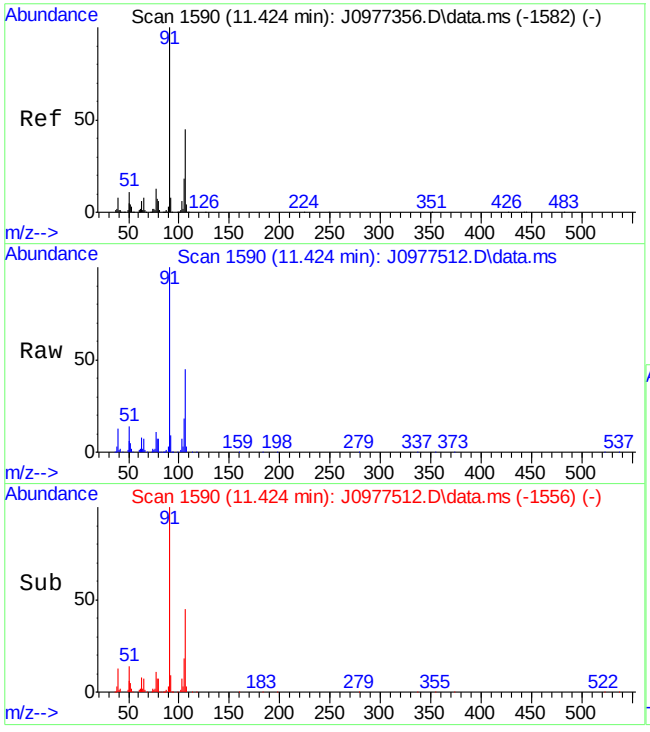


#73
m,p-Xylene
Concen: 412.57 ug/L
RT: 10.983 min Scan# 1515
Delta R.T. 0.000 min
Lab File: J0977512.D
Acq: 24 Jun 2016 5:02 pm

Tgt Ion: 91 Resp: 2740676

Ion	Ratio	Lower	Upper
91	100		
106	46.8	15.7	75.7
105	21.4	0.0	50.9

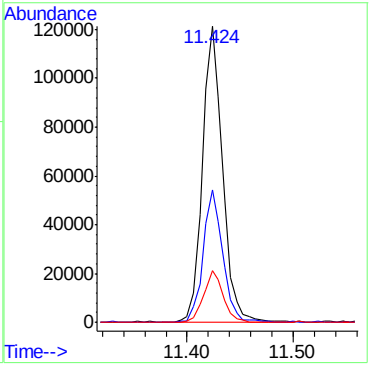


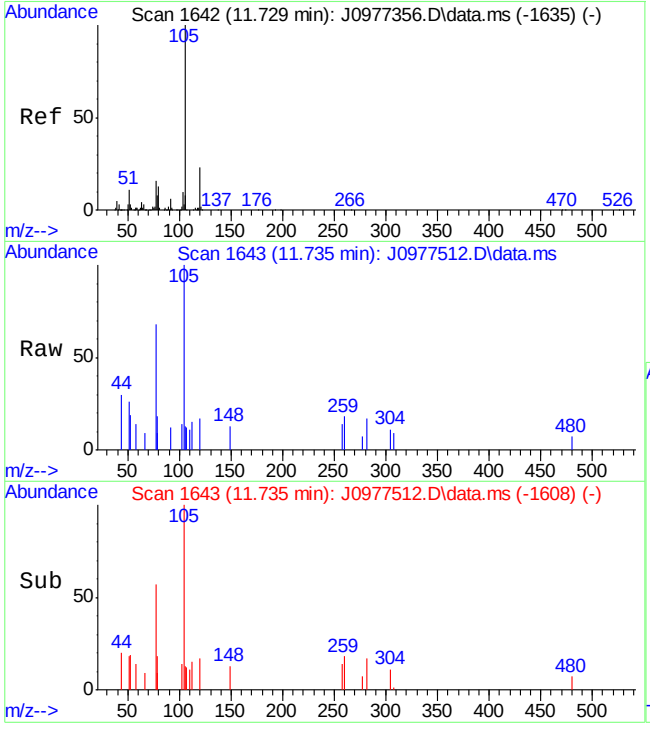


#74
o-Xylene
Concen: 22.88 ug/L
RT: 11.424 min Scan# 1590
Delta R.T. 0.000 min
Lab File: J0977512.D
Acq: 24 Jun 2016 5:02 pm

Tgt Ion: 91 Resp: 160556

Ion	Ratio	Lower	Upper
91	100		
106	44.9	15.4	75.4
105	17.6	0.0	47.9

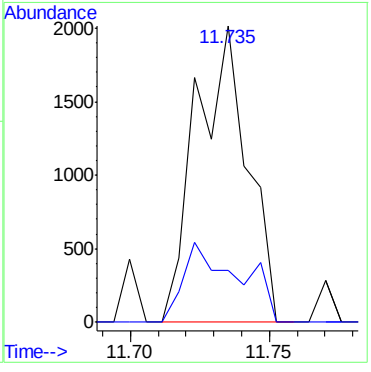




#77
Isopropylbenzene
Concen: 0.32 ug/L
RT: 11.735 min Scan# 1643
Delta R.T. 0.006 min
Lab File: J0977512.D
Acq: 24 Jun 2016 5:02 pm

Tgt Ion:105 Resp: 2587

Ion	Ratio	Lower	Upper
105	100		
120	17.5	0.0	52.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977588.D
Acq On : 27 Jun 2016 11:18 am
Operator : darshnap
Sample : fa34821-6 ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 13:31:19 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	464104	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	307172	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	133573	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	24975	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	112250	45.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.90%			
46) 1,2-Dichloroethane-d4	7.463	65	153848	43.16	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 86.32%			
57) Toluene-d8	9.285	98	437769	53.92	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.84%			
79) 4-Bromofluorobenzene	12.040	95	149282	58.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 116.34%			
Target Compounds						Qvalue
70) Ethylbenzene	10.848	91	295947	25.82	ug/L	98
73) m,p-Xylene	10.983	91	667689	75.36	ug/L	96
74) o-Xylene	11.424	91	39863	4.19	ug/L	95

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

7.1.8

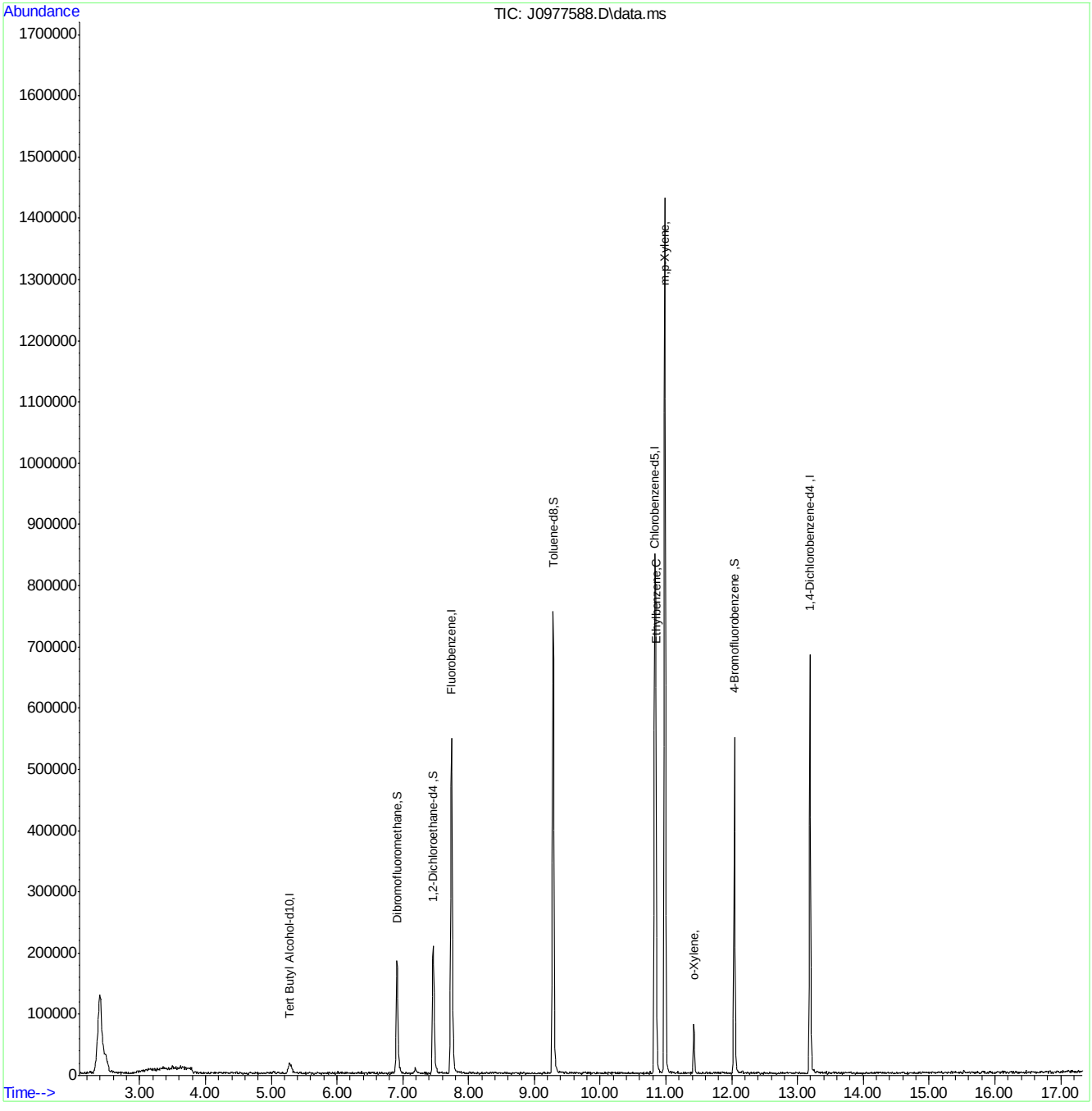
7

SGS ACCUTEST FA34821

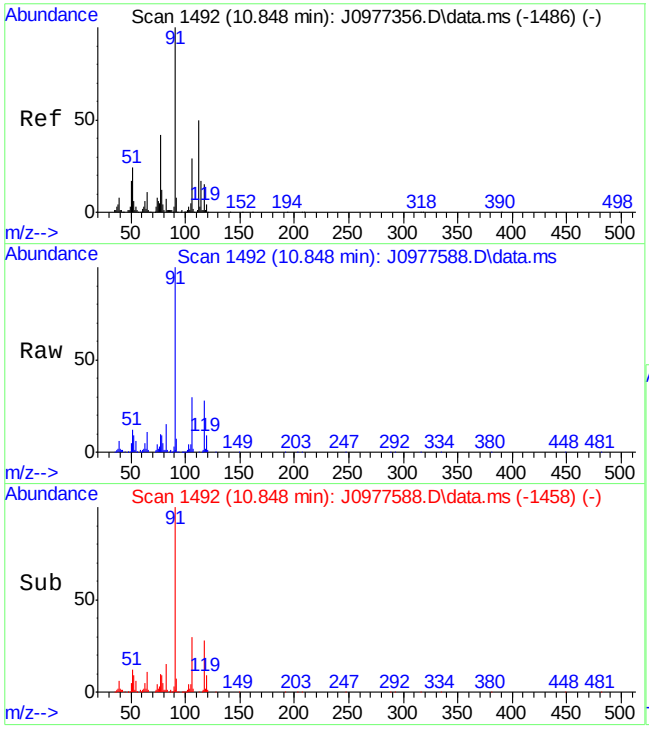
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977588.D
Acq On : 27 Jun 2016 11:18 am
Operator : darshnap
Sample : fa34821-6 ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 27 13:31:19 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



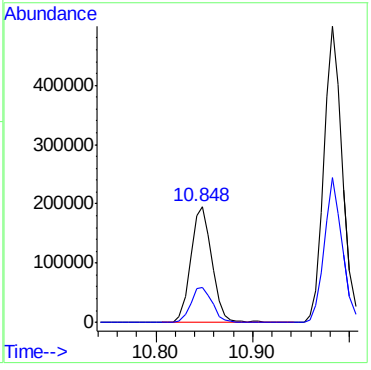
MSJ062116a.M Tue Jun 28 09:28:19 2016 Page: 2

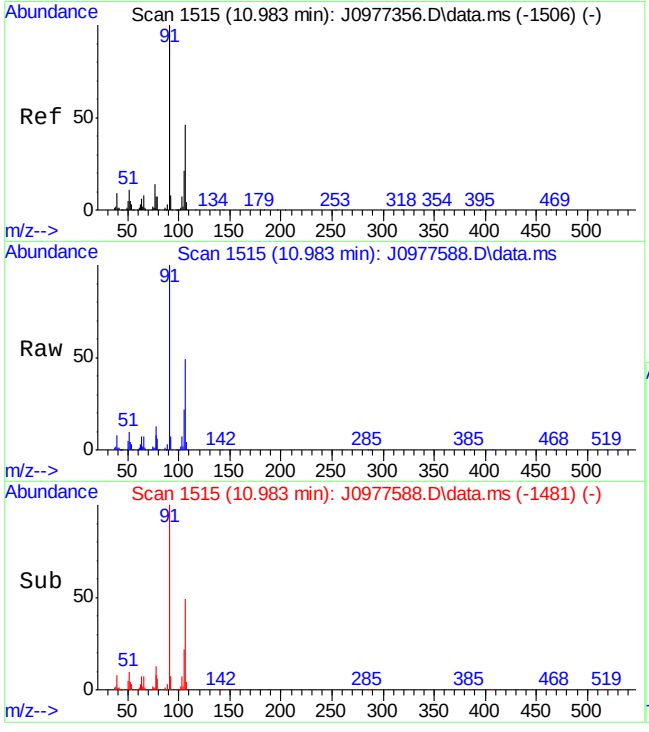


#70
Ethylbenzene
Concen: 25.82 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. 0.000 min
Lab File: J0977588.D
Acq: 27 Jun 2016 11:18 am

Tgt Ion: 91 Resp: 295947

Ion	Ratio	Lower	Upper
91	100		
106	30.5	0.0	59.4

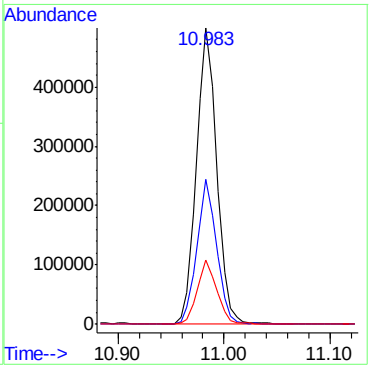


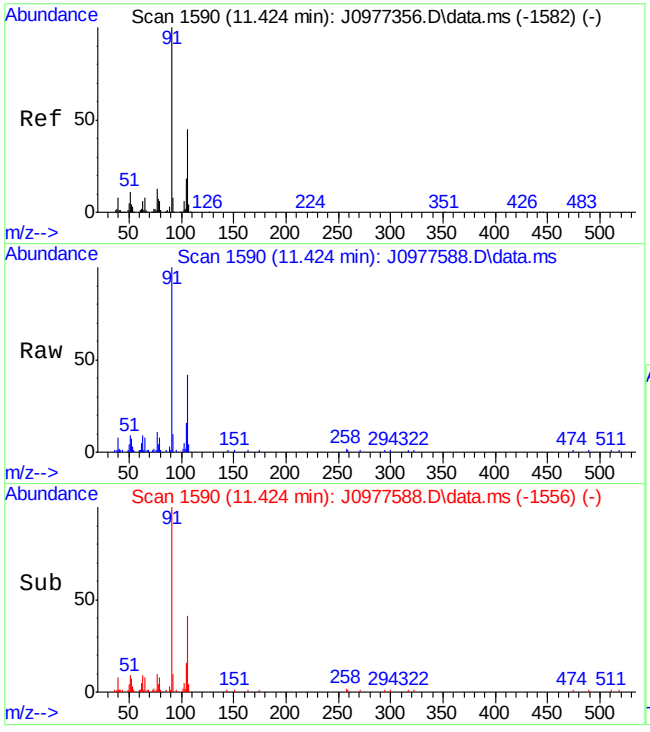


#73
m,p-Xylene
Concen: 75.36 ug/L
RT: 10.983 min Scan# 1515
Delta R.T. 0.000 min
Lab File: J0977588.D
Acq: 27 Jun 2016 11:18 am

Tgt Ion: 91 Resp: 667689

Ion	Ratio	Lower	Upper
91	100		
106	49.0	15.7	75.7
105	21.8	0.0	50.9

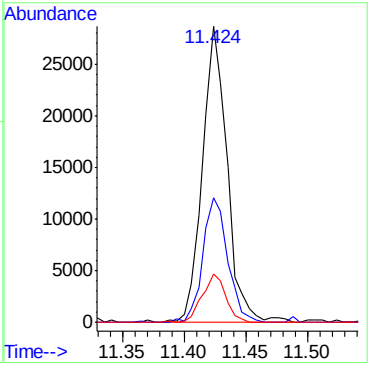




#74
o-Xylene
Concen: 4.19 ug/L
RT: 11.424 min Scan# 1590
Delta R.T. 0.000 min
Lab File: J0977588.D
Acq: 27 Jun 2016 11:18 am

Tgt Ion: 91 Resp: 39863

Ion	Ratio	Lower	Upper
91	100		
106	42.0	15.4	75.4
105	16.2	0.0	47.9



7.1.8

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977513.D
Acq On : 24 Jun 2016 5:25 pm
Operator : darshnap
Sample : fa34821-7 ma Inst : MSVOA6
Misc : MS34239,vj5348,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 10:15:21 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	316019	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	217852	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	117684	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	25664	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	86970	52.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.58%			
46) 1,2-Dichloroethane-d4	7.463	65	146832	60.49	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 120.98%			
57) Toluene-d8	9.285	98	309601	53.77	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 107.54%			
79) 4-Bromofluorobenzene	12.041	95	113312	50.12	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.24%			
Target Compounds						Qvalue

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

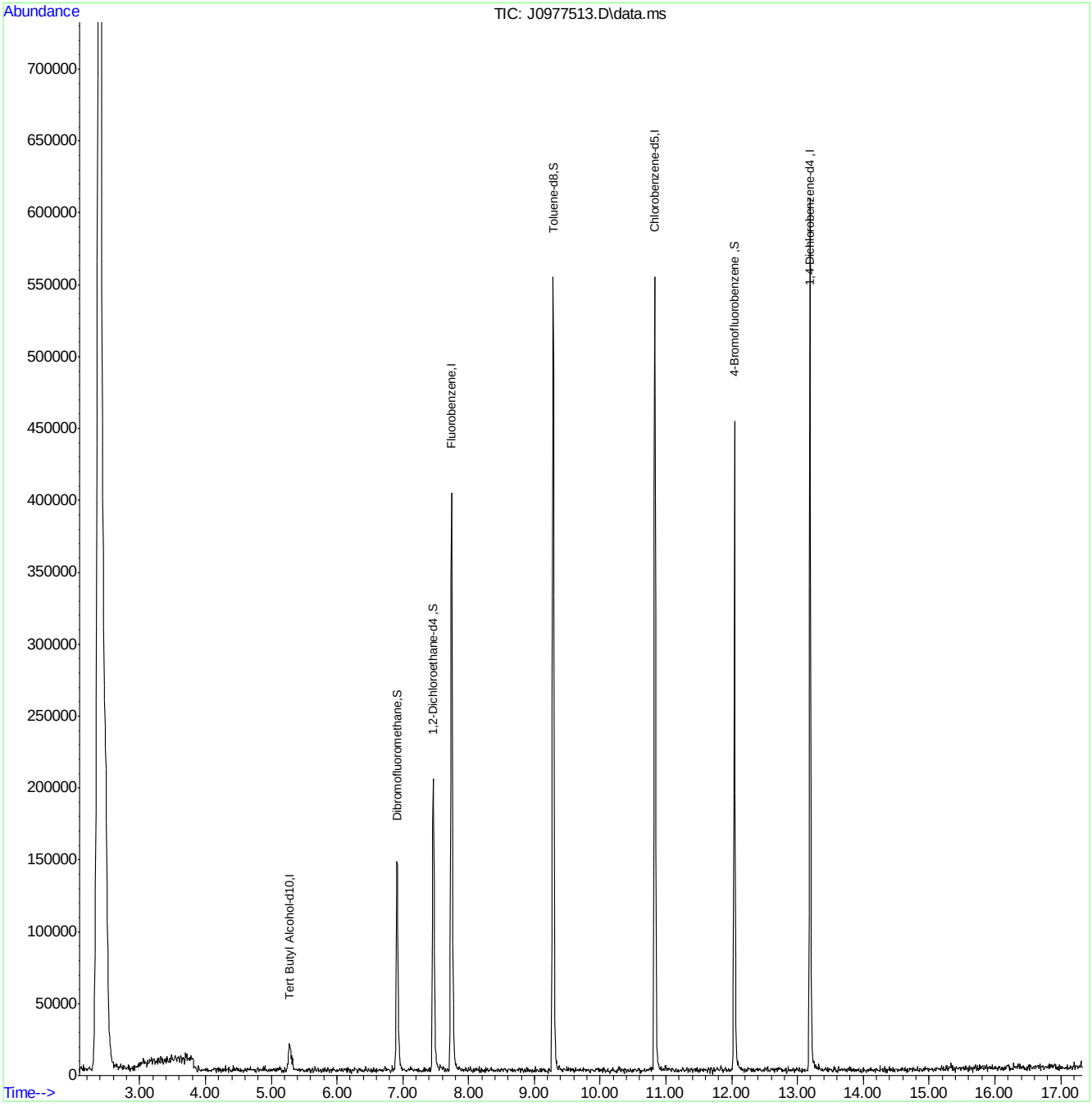
7.1.9

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977513.D
Acq On : 24 Jun 2016 5:25 pm
Operator : darshnap
Sample : fa34821-7 ma Inst : MSVOA6
Misc : MS34239,vj5348,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Jun 25 10:15:21 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



MSJ062116a.M Sat Jun 25 11:01:04 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977470.D
Acq On : 23 Jun 2016 12:40 pm
Operator : darshnap
Sample : fa34821-8 ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 23 14:20:16 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	344104	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	245804	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	136469	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	21500	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	95614	52.79	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.58%			
46) 1,2-Dichloroethane-d4	7.464	65	152356	57.65	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 115.30%			
57) Toluene-d8	9.285	98	333652	51.35	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.70%			
79) 4-Bromofluorobenzene	12.041	95	128628	49.06	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.12%			

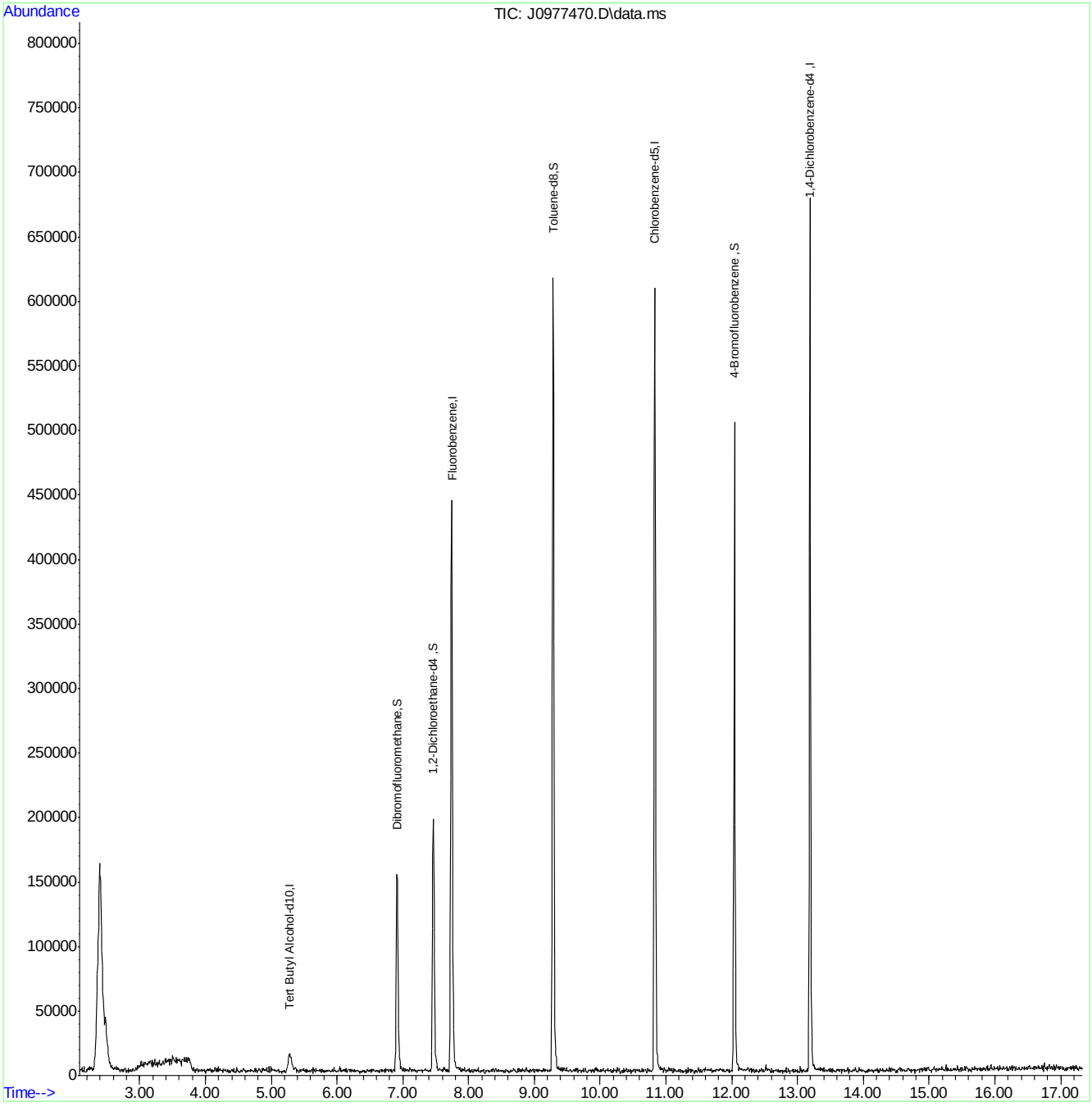
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977470.D
Acq On : 23 Jun 2016 12:40 pm
Operator : darshnap
Sample : fa34821-8 ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 23 14:20:16 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jun 24 08:49:53 2016 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/24/16 13:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977464.D
Acq On : 23 Jun 2016 10:23 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 23 14:14:27 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	435414	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	337166	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	150537	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	32024m	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	109931	47.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.94%			
46) 1,2-Dichloroethane-d4	7.463	65	184214	55.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.16%			
57) Toluene-d8	9.285	98	417683	46.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 93.74%			
79) 4-Bromofluorobenzene	12.041	95	162849	56.31	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.62%			

Target Compounds Qvalue

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

7.2.1

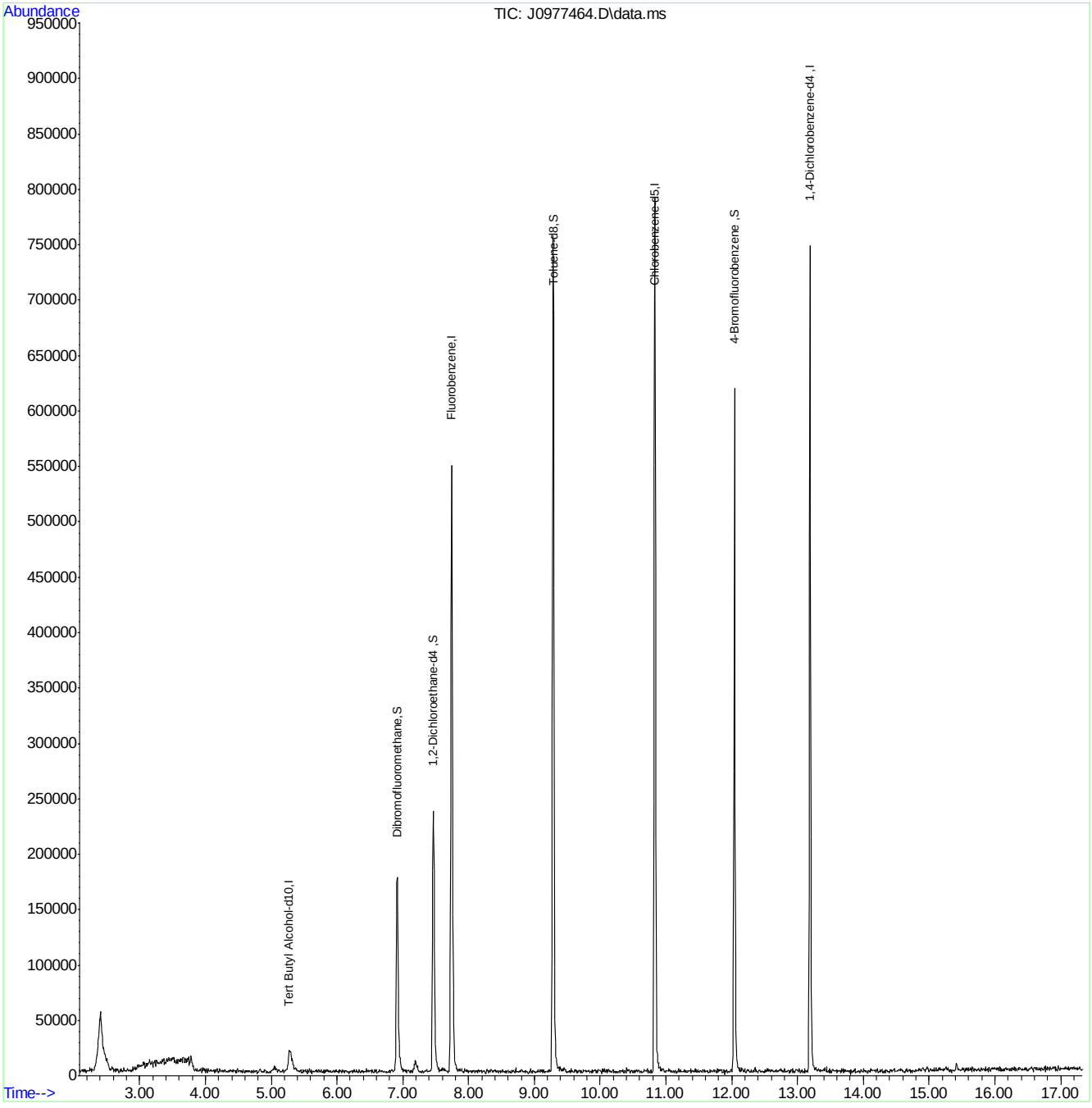
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977464.D
Acq On : 23 Jun 2016 10:23 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 23 14:14:27 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jun 24 08:56:49 2016 Page: 2

Manual Integration Approval Summary

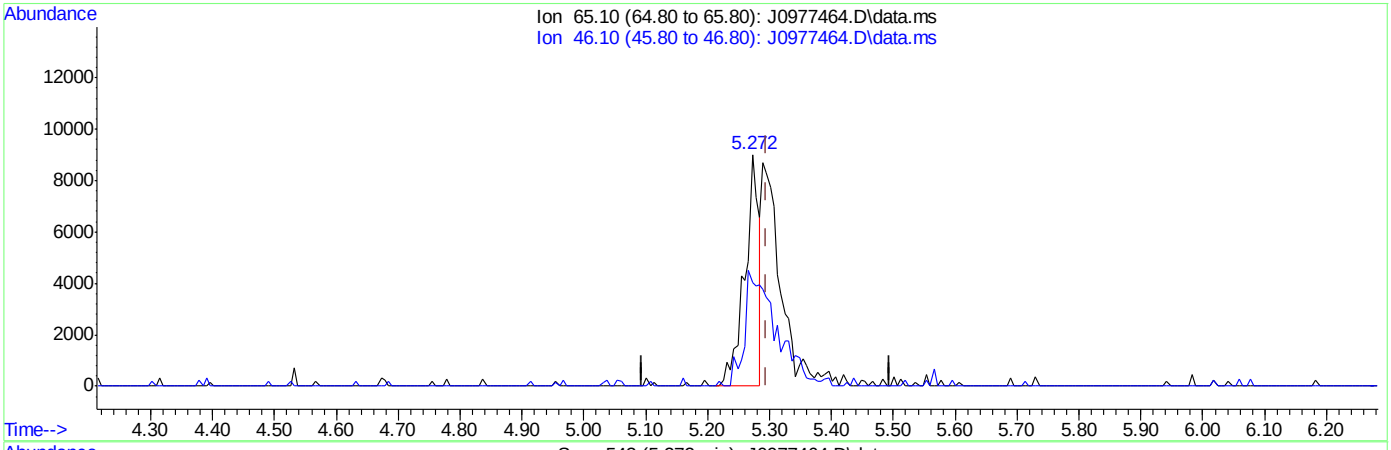
Sample Number:	VJ5346-MB	**Method:**	SW846 8260C
Lab FileID:	J0977464.D	**Analyst approved:**	06/24/16 10:44 Darshna Patel
Injection Time:	06/23/16 10:23	**Supervisor approved:**	06/24/16 13:57 Juan Garcia

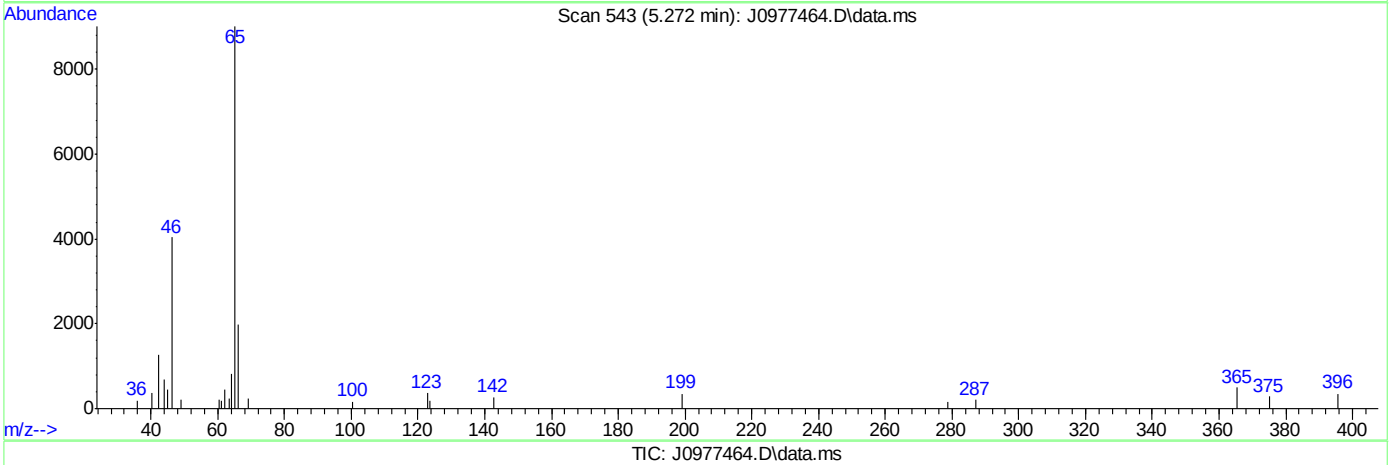
Parameter	CAS	Sig#	R.T. (min.)	Reason
Tert Butyl Alcohol-D10			5.27	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977464.D
Acq On : 23 Jun 2016 10:23 am
Operator : darshnap
Sample : mb Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 23 14:13:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977464.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.272min (-0.023) 250.00ug/L

response 14450

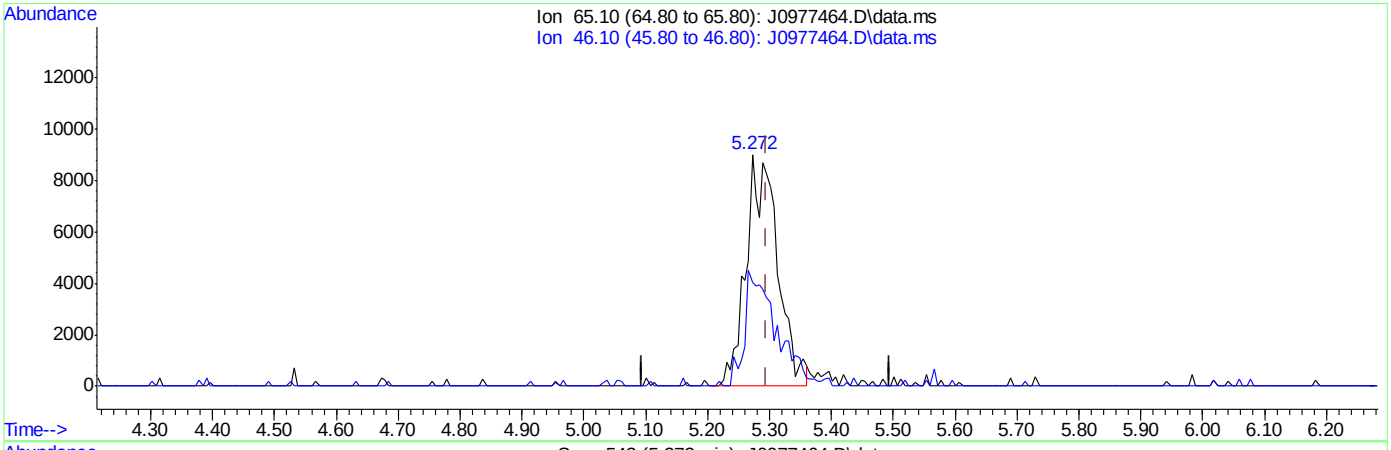
Ion	Exp%	Act%
65.10	100	100
46.10	20.40	44.79#
0.00	0.00	0.00
0.00	0.00	0.00

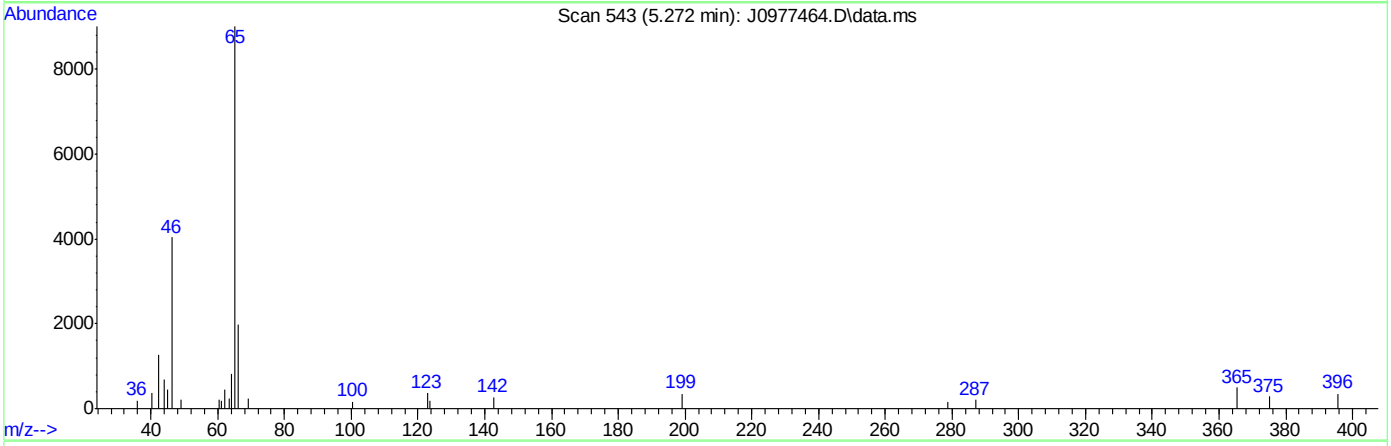
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977464.D
Acq On : 23 Jun 2016 10:23 am
Operator : darshnap
Sample : mb Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 23 14:13:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977464.D\data.ms

(106) Tert Butyl Alcohol-d10 (I)

5.272min (-0.023) 250.00ug/L m

response 32024

Ion	Exp%	Act%
65.10	100	100
46.10	20.40	44.79#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977494.D
Acq On : 24 Jun 2016 9:45 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 14:00:30 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	553788	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	385372	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	190530	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	39913	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	136843	46.95	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.90%			
46) 1,2-Dichloroethane-d4	7.464	65	208803	49.09	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.18%			
57) Toluene-d8	9.285	98	513400	50.40	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.80%			
79) 4-Bromofluorobenzene	12.041	95	188980	51.63	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.26%			

Target Compounds Qvalue

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

7.2.2

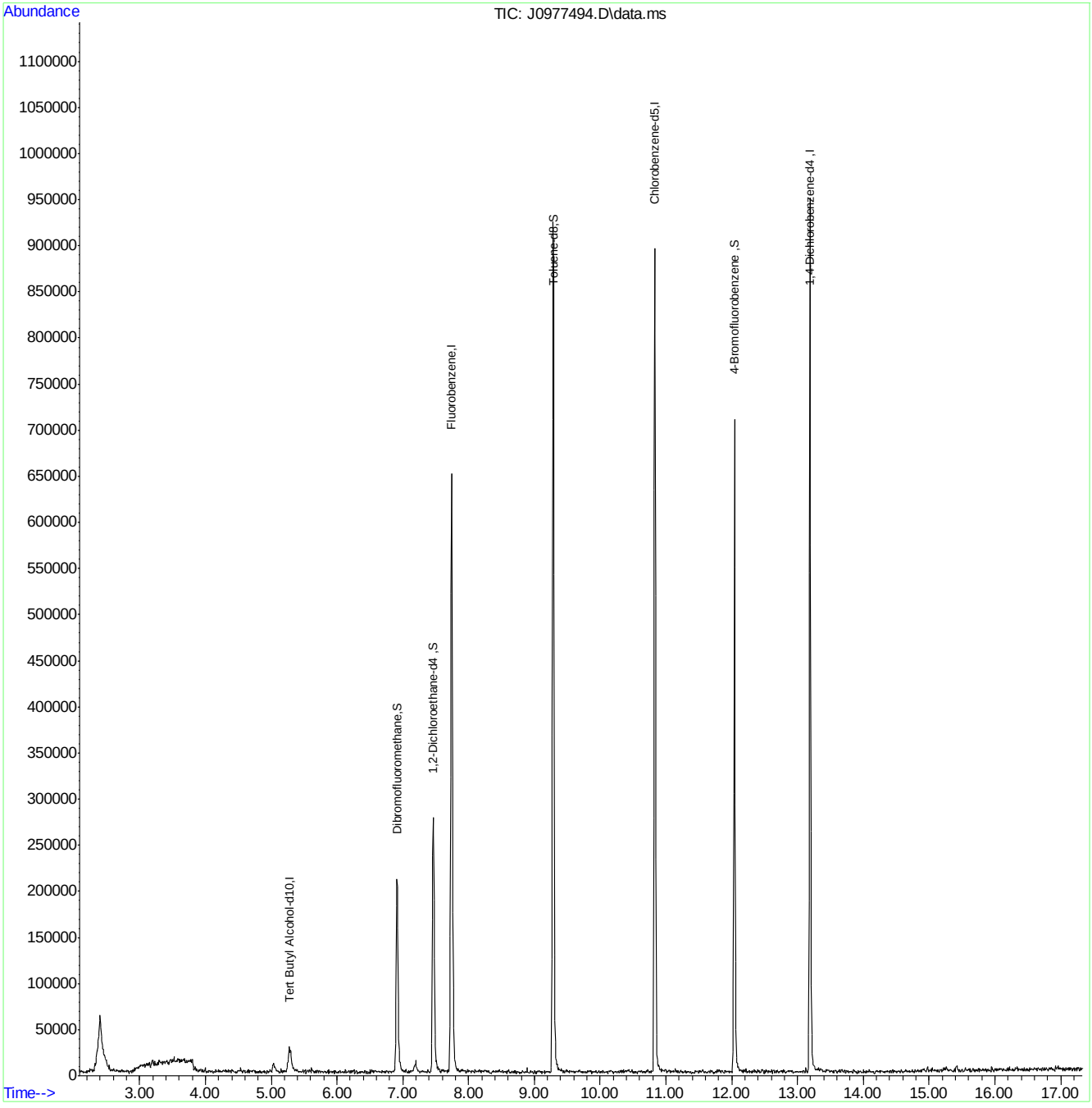
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977494.D
Acq On : 24 Jun 2016 9:45 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 24 14:00:30 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



MSJ062116a.M Sat Jun 25 11:10:46 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977585.D
Acq On : 27 Jun 2016 10:10 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 13:29:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	485469	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	358404	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	163714	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	35423	250.00	ug/L	#-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	128261	50.20	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.40%			
46) 1,2-Dichloroethane-d4	7.463	65	168219	45.11	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 90.22%			
57) Toluene-d8	9.285	98	465563	49.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.28%			
79) 4-Bromofluorobenzene	12.041	95	175941	55.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.88%			

Target Compounds Qvalue

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

7.2.3

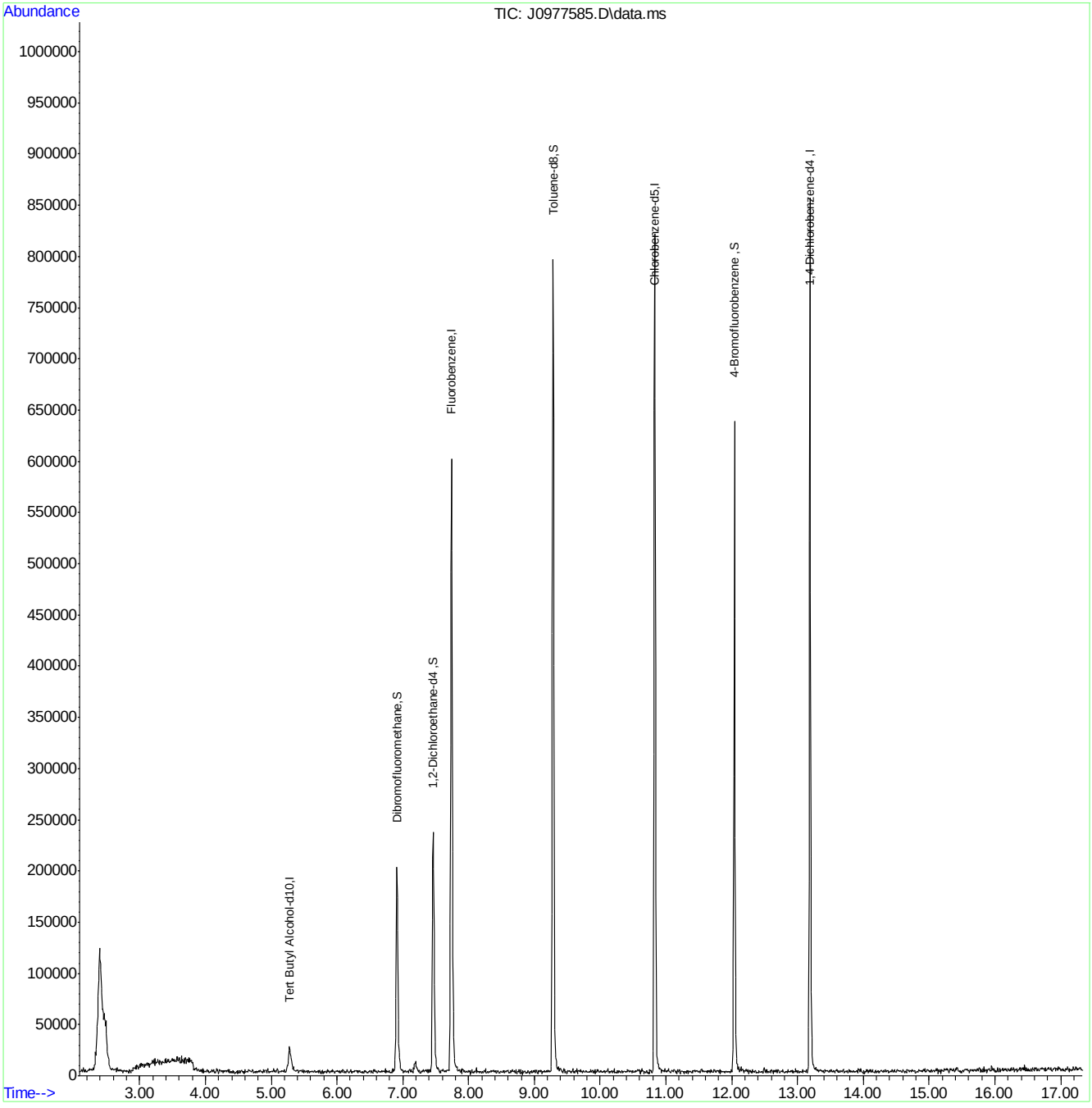
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977585.D
Acq On : 27 Jun 2016 10:10 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 27 13:29:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/24/16 13:57

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977463.D
Acq On : 23 Jun 2016 10:00 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 10:23:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	438096	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	314885	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	178096	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	34645	250.00	ug/L	#-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	119651	51.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.78%			
46) 1,2-Dichloroethane-d4	7.464	65	188511	56.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 112.04%			
57) Toluene-d8	9.285	98	427740	51.39	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.78%			
79) 4-Bromofluorobenzene	12.041	95	176690	51.64	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	80526	25.89	ug/L	92
3) Chloromethane	2.887	50	87504	27.66	ug/L	96
4) Vinyl Chloride	3.022	62	86510	27.59	ug/L	89
5) 1,3-Butadiene	3.016	54	1228	0.49	ug/L #	66
6) Bromomethane	3.439	94	66691	25.21	ug/L	90
7) Chloroethane	3.603	64	58996	28.30	ug/L	97
8) Trichlorofluoromethane	3.768	101	153365	28.98	ug/L	82
9) Ethyl Ether	4.097	59	53093	25.49	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.338	67	83229	31.13	ug/L	86
11) 1,1-Dichloroethene	4.391	61	111919	28.24	ug/L	93
12) Freon 113	4.426	101	63050	26.22	ug/L	91
13) Carbon Disulfide	4.461	76	200126	27.29	ug/L	91
14) Iodomethane	4.573	142	89495	23.72	ug/L	97
15) Allyl chloride	4.914	41	93788	27.83	ug/L	91
16) Methylene Chloride	5.031	49	98847	28.10	ug/L	96
17) Acetone	5.049	58	24905	170.90	ug/L #	60
18) Methyl acetate	5.178	74	35892	134.85	ug/L #	90
19) trans-1,2-Dichloroethene	5.219	61	101084	30.89	ug/L	88
20) Hexane	5.278	56	63132	28.84	ug/L #	83
21) Methyl Tert Butyl Ether	5.325	73	160717	22.71	ug/L	98
22) Acetonitrile	5.578	40	28919	264.67	ug/L #	76
23) Di-isopropyl ether	5.701	45	213071	25.09	ug/L	95
24) Chloroprene	5.854	53	121534	26.56	ug/L	88
25) 1,1-Dichloroethane	5.883	63	122785	27.86	ug/L	95
26) Acrylonitrile	5.912	53	75157	117.64	ug/L	89
27) ETBE	6.100	59	211712	23.84	ug/L	98
28) Vinyl acetate	6.095	43	487706	104.39	ug/L	98
29) cis-1,2-Dichloroethene	6.453	96	65606	24.38	ug/L	88
30) 2,2-Dichloropropane	6.588	77	108954	29.25	ug/L	93
31) Bromochloromethane	6.670	128	27268	23.13	ug/L	79
32) Cyclohexane	6.717	56	118812	28.72	ug/L	87
33) Chloroform	6.723	83	127761	25.54	ug/L	92
34) Ethyl acetate	6.788	43	221136	130.15	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977463.D
Acq On : 23 Jun 2016 10:00 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 10:23:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.900	42	11579	23.69	ug/L		86
37)	Carbon Tetrachloride	6.917	117	101306m	28.16	ug/L		
38)	1,1,1-Trichloroethane	6.982	97	120029	27.15	ug/L		96
39)	2-Butanone	7.005	43	102647	153.26	ug/L		94
40)	1,1-Dichloropropene	7.088	75	89386	27.76	ug/L		86
41)	tert-Butyl Formate	7.170	59	348962	230.03	ug/L		88
42)	Propionitrile	7.311	54	62480	263.63	ug/L		95
43)	Methacrylonitrile	7.346	41	304787	282.81	ug/L		96
44)	Benzene	7.340	78	227700	25.35	ug/L		99
45)	TAME	7.417	73	156479	21.99	ug/L		98
47)	1,2-Dichloroethane	7.528	62	105945	26.00	ug/L		99
48)	Trichloroethene	7.916	95	64185	26.37	ug/L		92
49)	Methylcyclohexane	7.934	83	113468	26.74	ug/L		88
50)	Dibromomethane	8.345	93	36722	27.02	ug/L		84
51)	1,2-Dichloropropane	8.433	63	60112	25.34	ug/L		88
52)	Bromodichloromethane	8.480	83	91109	24.99	ug/L		96
53)	Methyl methacrylate	8.580	41	45394	27.07	ug/L		92
54)	2-Chloroethyl vinyl ether	8.991	63	162314	127.87	ug/L		95
55)	cis-1,3-Dichloropropene	9.091	75	89337	22.71	ug/L		97
58)	Toluene	9.338	91	243470	24.70	ug/L		98
59)	2-Nitropropane	9.538	41	66878	119.61	ug/L		98
60)	4-Methyl-2-pentanone	9.655	43	244164	156.47	ug/L		96
61)	trans-1,3-Dichloropropene	9.720	75	92130	27.68	ug/L		93
62)	Tetrachloroethene	9.737	166	74386	30.78	ug/L		92
63)	Ethyl methacrylate	9.826	69	54842	22.24	ug/L		96
64)	1,1,2-Trichloroethane	9.884	83	40235	24.79	ug/L		88
65)	Dibromochloromethane	10.084	129	54619	23.14	ug/L		98
66)	1,3-Dichloropropane	10.166	76	79849	23.24	ug/L		93
67)	1,2-Dibromoethane	10.349	107	47796	24.72	ug/L		100
68)	2-hexanone	10.478	43	163988	154.60	ug/L		95
69)	1-Chlorohexane	10.783	91	84694	26.98	ug/L		99
70)	Ethylbenzene	10.848	91	314115	26.74	ug/L		99
71)	Chlorobenzene	10.848	112	160026	25.49	ug/L		86
72)	1,1,1,2-Tetrachloroethane	10.895	131	60622	27.99	ug/L		95
73)	m,p-Xylene	10.983	91	492805	54.26	ug/L		96
74)	o-Xylene	11.424	91	254671	26.63	ug/L		99
75)	Styrene	11.471	104	175804	24.79	ug/L		97
76)	Bromoform	11.530	173	31921	23.27	ug/L		92
77)	Isopropylbenzene	11.729	105	313550	28.43	ug/L		95
80)	cis-1,4-Dichloro-2-butene	12.070	53	20308	23.60	ug/L	#	87
81)	n-Propylbenzene	12.146	91	370816	26.11	ug/L		97
82)	Bromobenzene	12.164	156	66178	23.37	ug/L		96
83)	1,1,2,2-Tetrachloroethane	12.205	83	57694	23.84	ug/L		83
84)	1,3,5-Trimethylbenzene	12.329	105	261926	24.82	ug/L		100
85)	2-Chlorotoluene	12.334	91	262181	26.35	ug/L		98
86)	trans-1,4-Dichloro-2-B...	12.387	53	20216	24.07	ug/L	#	67
87)	1,2,3-Trichloropropane	12.364	110	17929	25.12	ug/L		91
88)	Cyclohexanone	12.434	55	11121	185.20	ug/L		82
89)	4-Chlorotoluene	12.505	91	231644	24.35	ug/L		97
90)	a-Methyl Styrene	12.734	118	2744	0.54	ug/L	#	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977463.D
Acq On : 23 Jun 2016 10:00 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 10:23:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	163348	26.59	ug/L		95
92)	1,2,4-Trimethylbenzene	12.740	105	261666	24.54	ug/L		96
93)	Pentachloroethane	12.722	167	34867	21.69	ug/L	#	84
94)	sec-Butylbenzene	12.852	105	340218	26.95	ug/L		97
95)	4-Isopropyltoluene	12.987	119	283213	26.49	ug/L		95
96)	1,3-Dichlorobenzene	13.122	146	128500	25.01	ug/L		97
97)	1,4-Dichlorobenzene	13.210	146	128270	24.50	ug/L		96
98)	n-Butylbenzene	13.421	92	152540	24.97	ug/L		89
99)	Benzyl Chloride	13.439	126	16126	18.15	ug/L	#	52
100)	1,2-Dichlorobenzene	13.633	146	120316	25.12	ug/L		92
101)	1,2-Dibromo-3-Chloropr...	14.367	75	10649	25.24	ug/L	#	77
102)	Hexachlorobutadiene	14.914	225	50774	24.52	ug/L		85
103)	1,2,4-Trichlorobenzene	14.961	180	84099	21.90	ug/L		99
104)	Naphthalene	15.243	128	150479	27.46	ug/L		96
105)	1,2,3-Trichlorobenzene	15.413	180	71589	25.26	ug/L		94
107)	Ethanol	4.238	45	9221m	509.91	ug/L		
108)	acrolein	4.749	56	31456	83.94	ug/L		83
109)	Tert Butyl Alcohol	5.360	59	42093	212.27	ug/L		87
110)	tert Amyl alcohol	7.564	59	32172	208.15	ug/L		85
111)	Isobutyl alcohol	7.434	42	28773	479.66	ug/L		95
112)	1,4-Dioxane	8.656	88	8323	469.37	ug/L		84
113)	3,3-Dimethyl-1-butanol	10.419	57	171522	1232.11	ug/L		95

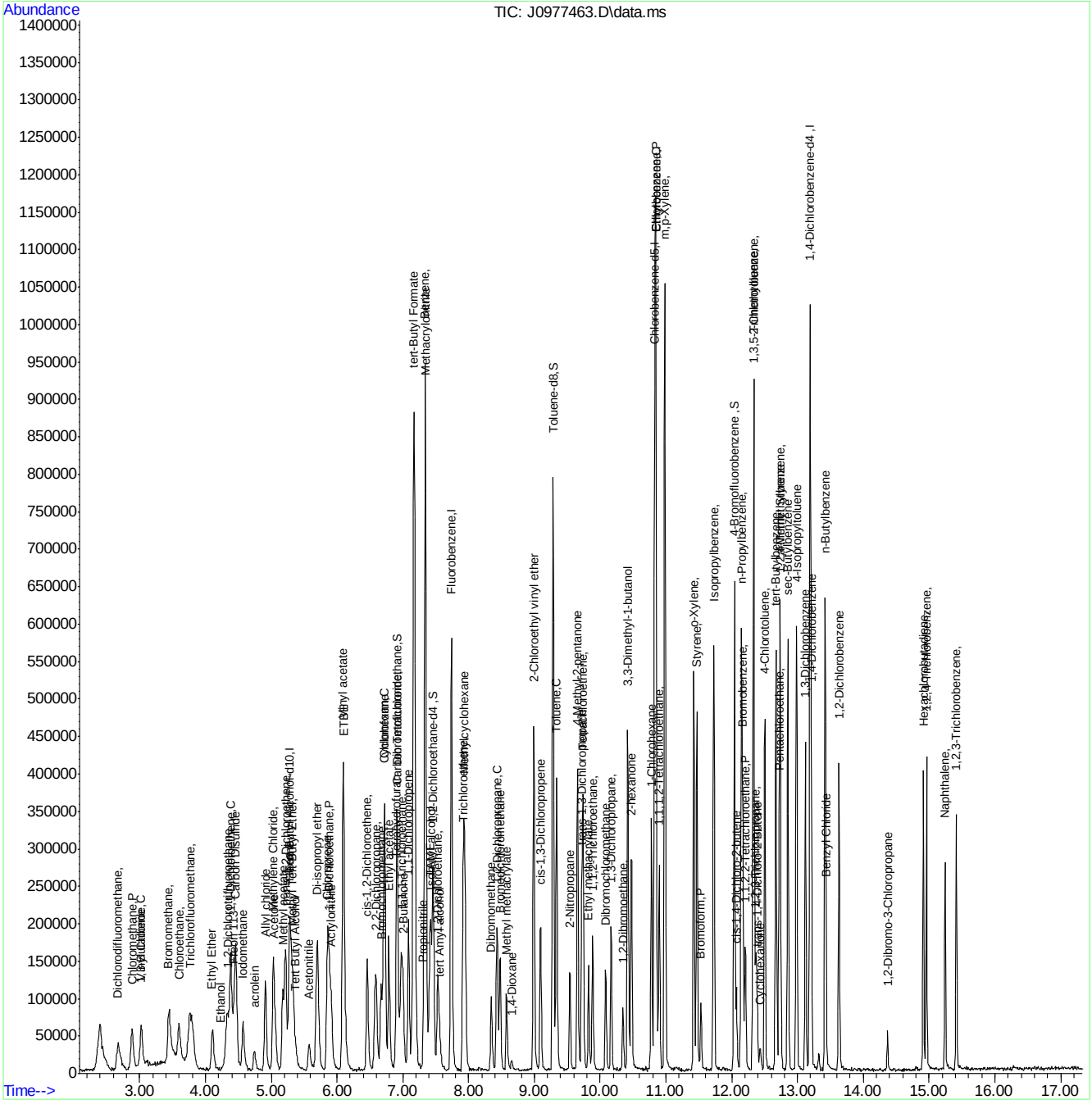
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977463.D
Acq On : 23 Jun 2016 10:00 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 10:23:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

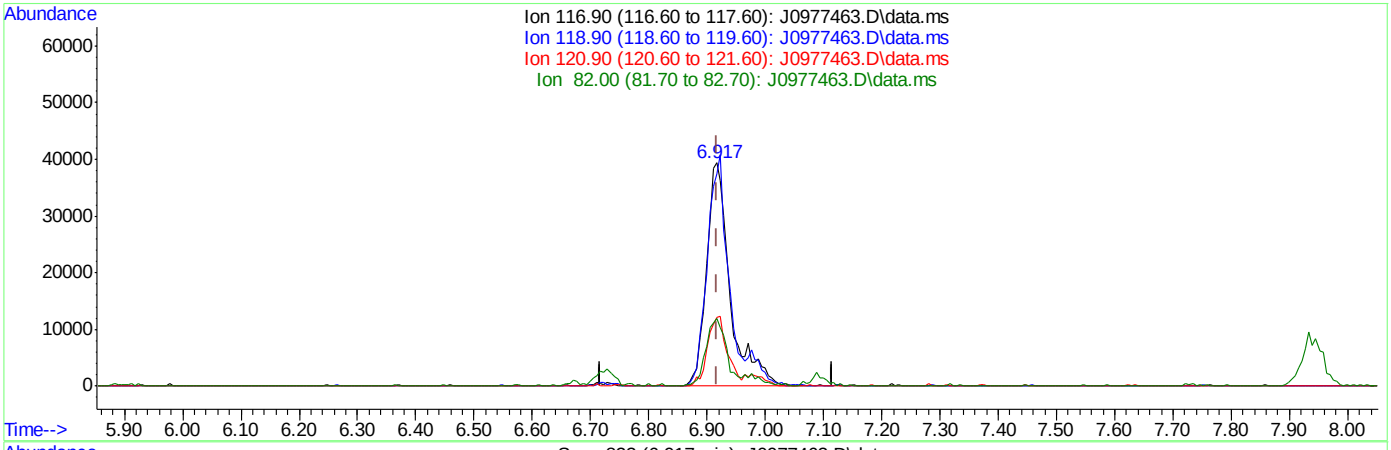
Sample Number:	VJ5346-BS	**Method:**	SW846 8260C
Lab FileID:	J0977463.D	**Analyst approved:**	06/24/16 10:44 Darshna Patel
Injection Time:	06/23/16 10:00	**Supervisor approved:**	06/24/16 13:57 Juan Garcia

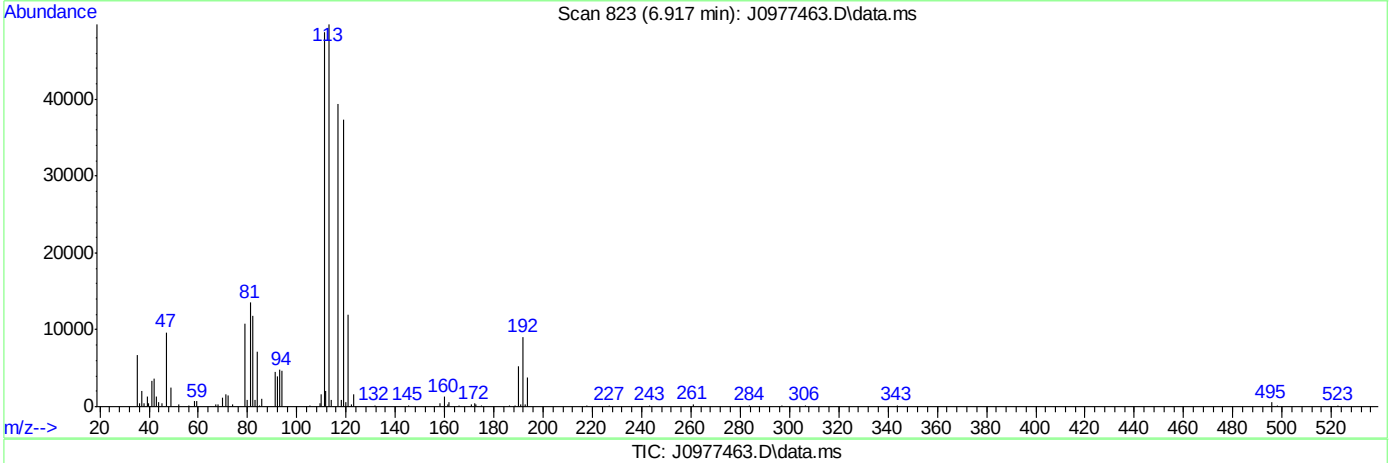
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.24	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977463.D
Acq On : 23 Jun 2016 10:00 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 10:23:01 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977463.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 31.41ug/L

response 112979

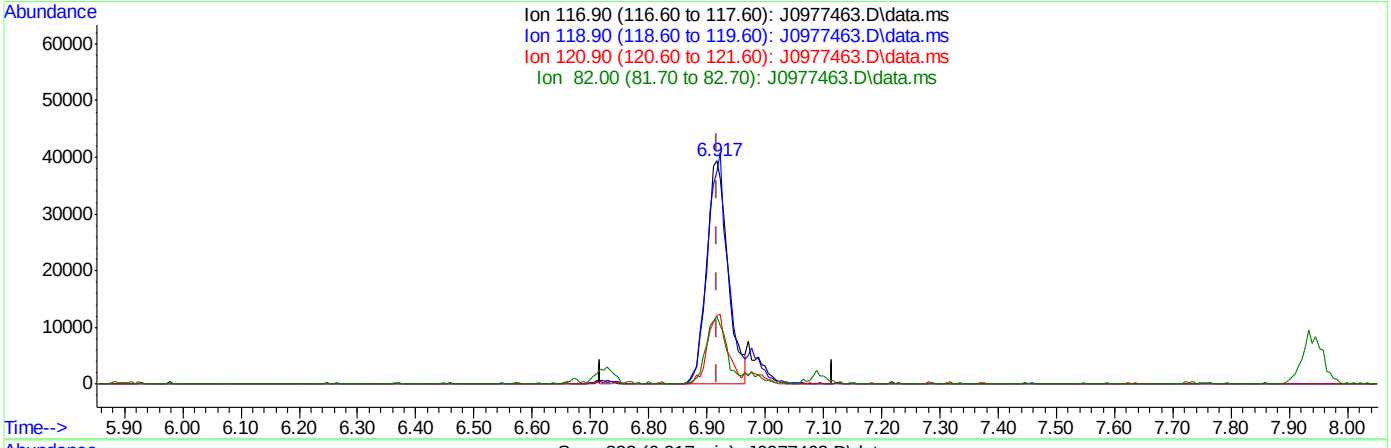
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	95.00
120.90	27.00	30.61
82.00	24.80	30.23

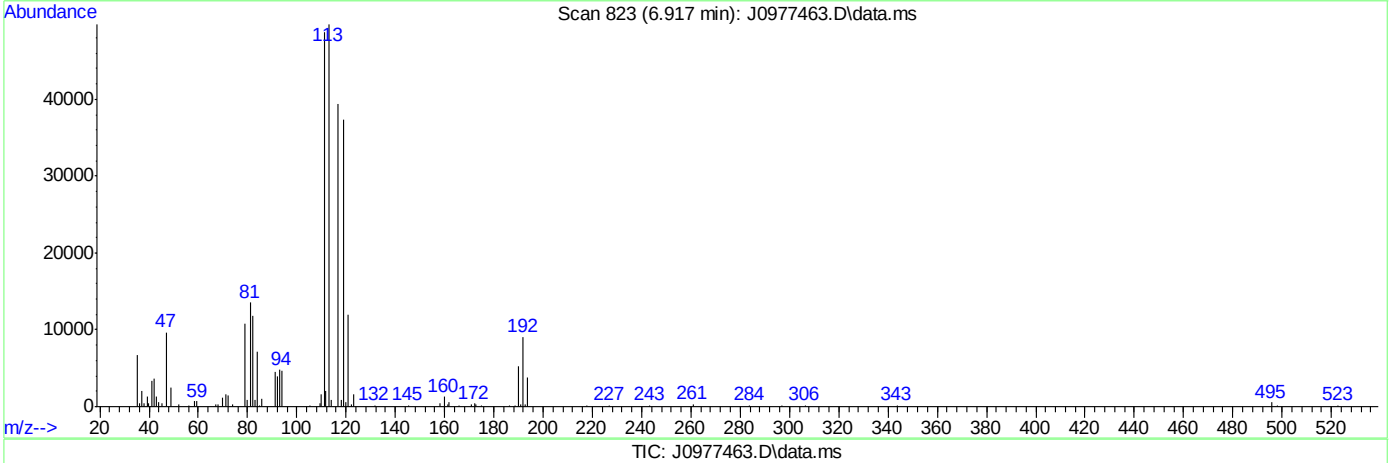
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977463.D
Acq On : 23 Jun 2016 10:00 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 10:23:01 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977463.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 28.16ug/L m

response 101306

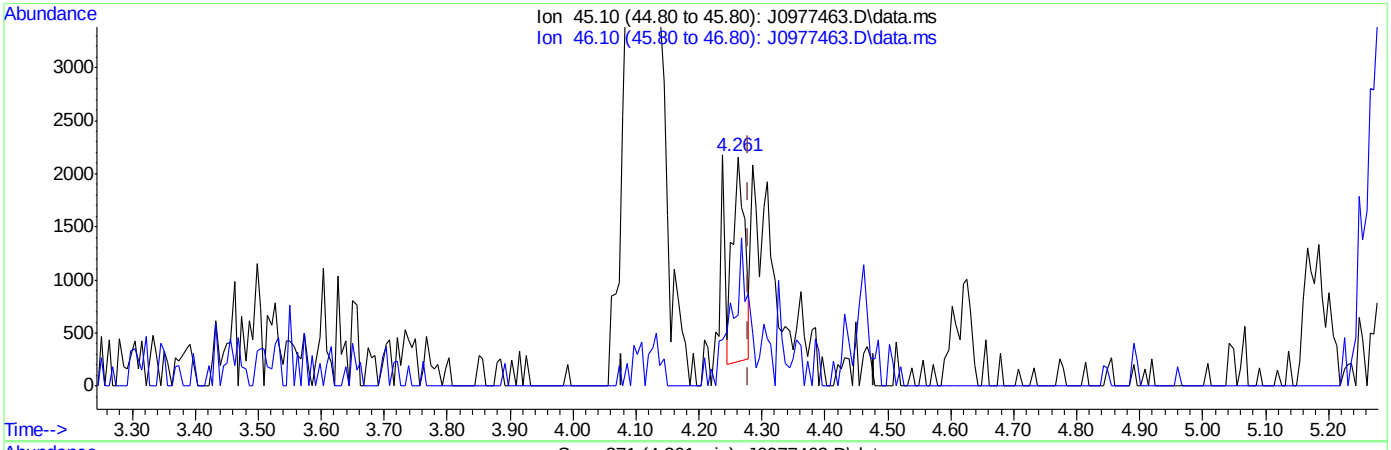
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	95.00
120.90	27.00	30.61
82.00	24.80	30.23

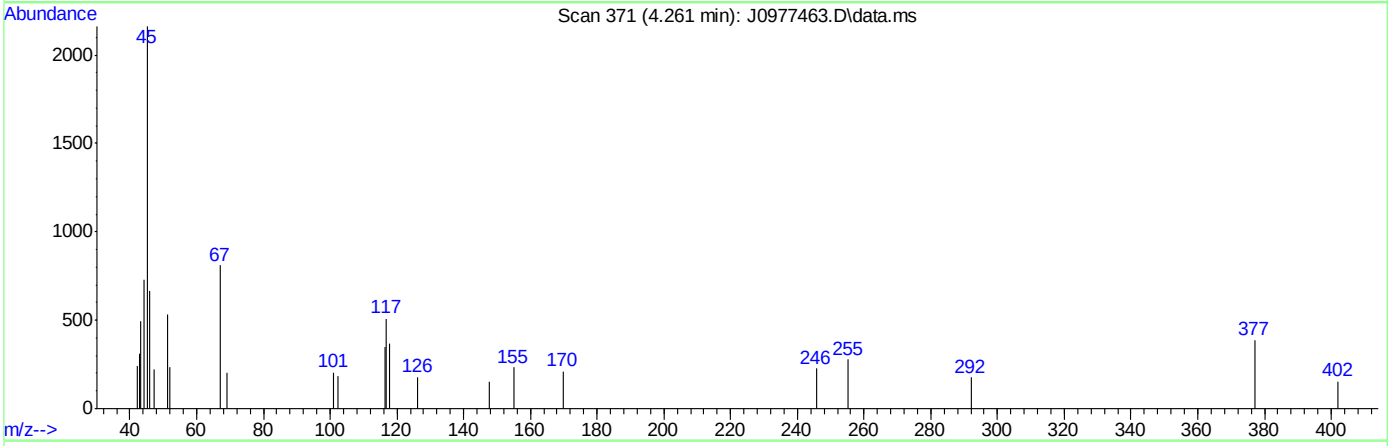
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977463.D
Acq On : 23 Jun 2016 10:00 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 10:23:01 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977463.D\data.ms

(107) Ethanol

4.261min (-0.017) 147.37ug/L

response 2665

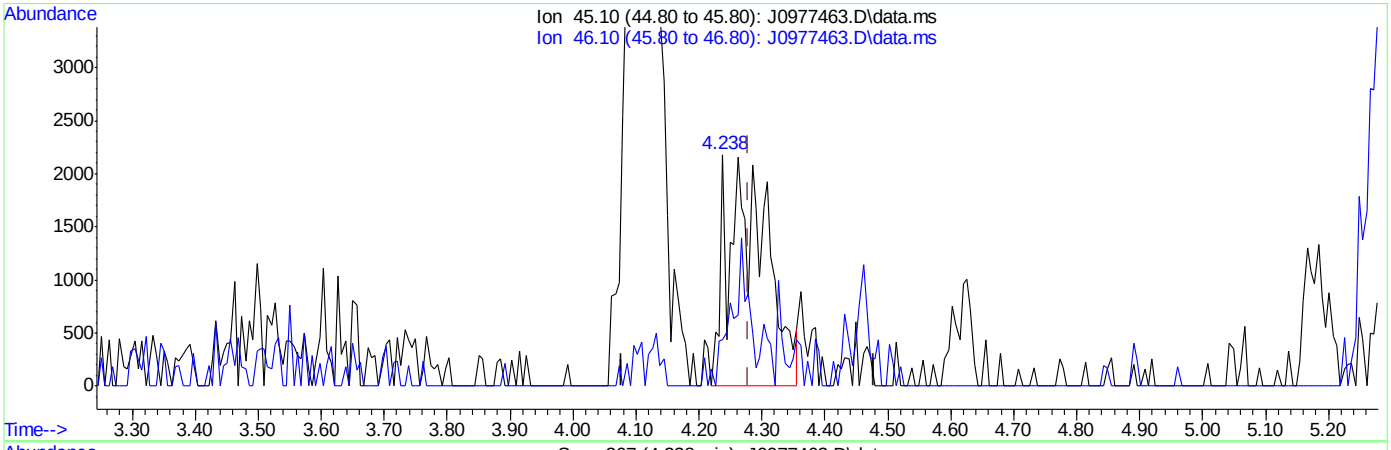
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	8.87
0.00	0.00	0.00
0.00	0.00	0.00

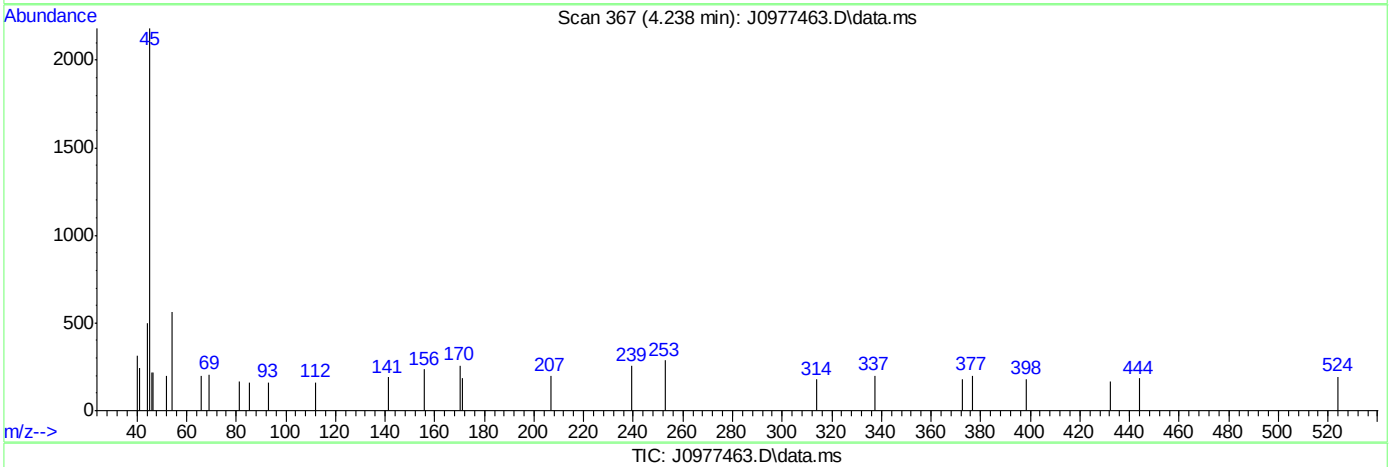
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977463.D
Acq On : 23 Jun 2016 10:00 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 10:23:01 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977463.D\data.ms

(107) Ethanol

4.238min (-0.041) 509.91ug/L m

response 9221

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	9.90
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/27/16 10:50

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977493.D
Acq On : 24 Jun 2016 9:22 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 10:10:35 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	590551	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	405093	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	204499	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.289	65	49263	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	147676	47.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.02%			
46) 1,2-Dichloroethane-d4	7.463	65	232939	51.36	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.72%			
57) Toluene-d8	9.285	98	540963	50.52	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.04%			
79) 4-Bromofluorobenzene	12.041	95	209271	53.27	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.54%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	99580	23.67	ug/L	90
3) Chloromethane	2.886	50	116313	27.27	ug/L	96
4) Vinyl Chloride	3.033	62	113002	26.70	ug/L	90
5) 1,3-Butadiene	3.022	54	1120	0.33	ug/L #	39
6) Bromomethane	3.450	94	86985	24.35	ug/L	92
7) Chloroethane	3.609	64	76023	26.91	ug/L	91
8) Trichlorofluoromethane	3.762	101	185932	25.96	ug/L	94
9) Ethyl Ether	4.120	59	70838	25.23	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.338	67	115095	31.94	ug/L	96
11) 1,1-Dichloroethene	4.391	61	147286	27.54	ug/L	95
12) Freon 113	4.455	101	84093	25.93	ug/L	96
13) Carbon Disulfide	4.467	76	272425	27.56	ug/L	94
14) Iodomethane	4.579	142	112758	22.17	ug/L	98
15) Allyl chloride	4.913	41	127782	28.13	ug/L	96
16) Methylene Chloride	5.037	49	165662	34.93	ug/L	96
17) Acetone	5.054	58	25811	131.40	ug/L #	63
18) Methyl acetate	5.178	74	46042	128.33	ug/L #	92
19) trans-1,2-Dichloroethene	5.219	61	140481	31.85	ug/L	94
20) Hexane	5.278	56	89508	30.33	ug/L	91
21) Methyl Tert Butyl Ether	5.325	73	202412	21.21	ug/L	96
22) Acetonitrile	5.583	40	38996	264.76	ug/L	97
23) Di-isopropyl ether	5.701	45	291690	25.48	ug/L	97
24) Chloroprene	5.859	53	149697	24.20	ug/L	93
25) 1,1-Dichloroethane	5.889	63	163359	27.50	ug/L	99
26) Acrylonitrile	5.912	53	99567	115.59	ug/L	92
27) ETBE	6.100	59	276328	23.08	ug/L	95
28) Vinyl acetate	6.094	43	635493	100.91	ug/L	99
29) cis-1,2-Dichloroethene	6.459	96	87030	23.99	ug/L	89
30) 2,2-Dichloropropane	6.594	77	129005	25.69	ug/L	94
31) Bromochloromethane	6.670	128	36539	22.99	ug/L	91
32) Cyclohexane	6.723	56	167535	30.04	ug/L	92
33) Chloroform	6.723	83	162496	24.07	ug/L	96
34) Ethyl acetate	6.788	43	267189	116.65	ug/L	96

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977493.D
Acq On : 24 Jun 2016 9:22 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 10:10:35 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	16873	25.61 ug/L	79
37) Carbon Tetrachloride	6.917	117	120624m	24.88 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	139019	23.33 ug/L	93
39) 2-Butanone	7.005	43	116942	129.53 ug/L	94
40) 1,1-Dichloropropene	7.087	75	111283	25.64 ug/L	91
41) tert-Butyl Formate	7.176	59	466409	228.11 ug/L #	82
42) Propionitrile	7.317	54	79254	248.08 ug/L	87
43) Methacrylonitrile	7.340	41	385197	265.15 ug/L	98
44) Benzene	7.340	78	318067	26.28 ug/L	92
45) TAME	7.416	73	194147	20.24 ug/L	96
47) 1,2-Dichloroethane	7.534	62	132405	24.07 ug/L	89
48) Trichloroethene	7.922	95	90709	27.65 ug/L	85
49) Methylcyclohexane	7.939	83	158436	27.70 ug/L #	84
50) Dibromomethane	8.345	93	44961	24.59 ug/L	91
51) 1,2-Dichloropropane	8.433	63	84886	26.54 ug/L	98
52) Bromodichloromethane	8.480	83	114040	23.20 ug/L	98
53) Methyl methacrylate	8.574	41	57110	25.26 ug/L	96
54) 2-Chloroethyl vinyl ether	8.991	63	205289	119.98 ug/L	96
55) cis-1,3-Dichloropropene	9.097	75	118233	22.30 ug/L	97
58) Toluene	9.338	91	311309	24.54 ug/L	96
59) 2-Nitropropane	9.543	41	78378	108.96 ug/L	93
60) 4-Methyl-2-pentanone	9.655	43	257365	128.20 ug/L	97
61) trans-1,3-Dichloropropene	9.720	75	109711	25.62 ug/L	91
62) Tetrachloroethene	9.743	166	83227	26.77 ug/L	96
63) Ethyl methacrylate	9.825	69	67978	21.43 ug/L	95
64) 1,1,2-Trichloroethane	9.890	83	50341	24.09 ug/L	89
65) Dibromochloromethane	10.084	129	67689	22.29 ug/L	97
66) 1,3-Dichloropropane	10.166	76	104614	23.67 ug/L	97
67) 1,2-Dibromoethane	10.342	107	57210	22.98 ug/L	94
68) 2-hexanone	10.478	43	180654	132.38 ug/L	93
69) 1-Chlorohexane	10.783	91	103449	25.62 ug/L	97
70) Ethylbenzene	10.848	91	378500	25.04 ug/L	99
71) Chlorobenzene	10.848	112	197359	24.41 ug/L	87
72) 1,1,1,2-Tetrachloroethane	10.901	131	71067	25.51 ug/L	90
73) m,p-Xylene	10.983	91	583052	49.90 ug/L	98
74) o-Xylene	11.424	91	293907	23.83 ug/L	96
75) Styrene	11.471	104	217609	23.85 ug/L	96
76) Bromoform	11.535	173	34088	19.31 ug/L	93
77) Isopropylbenzene	11.729	105	366345	25.82 ug/L	91
80) cis-1,4-Dichloro-2-butene	12.076	53	23375	23.66 ug/L #	82
81) n-Propylbenzene	12.146	91	473259	29.02 ug/L	94
82) Bromobenzene	12.170	156	81792	25.19 ug/L	91
83) 1,1,2,2-Tetrachloroethane	12.205	83	73156	26.31 ug/L	92
84) 1,3,5-Trimethylbenzene	12.328	105	310453	25.62 ug/L	99
85) 2-Chlorotoluene	12.340	91	302444	26.48 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.387	53	21408	22.15 ug/L #	70
87) 1,2,3-Trichloropropane	12.370	110	20970	25.59 ug/L	82
88) Cyclohexanone	12.428	55	16340	236.02 ug/L	81
89) 4-Chlorotoluene	12.505	91	272582	24.97 ug/L	96
90) a-Methyl Styrene	12.669	118	3372	0.58 ug/L #	1

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977493.D
Acq On : 24 Jun 2016 9:22 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 10:10:35 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.669	91	186097	26.38	ug/L	99
92)	1,2,4-Trimethylbenzene	12.740	105	315201	25.75	ug/L	94
93)	Pentachloroethane	12.722	167	42935	23.26	ug/L	92
94)	sec-Butylbenzene	12.851	105	402272	27.75	ug/L	99
95)	4-Isopropyltoluene	12.986	119	326789	26.62	ug/L	95
96)	1,3-Dichlorobenzene	13.122	146	152605	25.88	ug/L	94
97)	1,4-Dichlorobenzene	13.204	146	147170	24.48	ug/L	96
98)	n-Butylbenzene	13.421	92	196095	27.96	ug/L	98
99)	Benzyl Chloride	13.433	126	24981	24.49	ug/L #	87
100)	1,2-Dichlorobenzene	13.633	146	137865	25.07	ug/L	93
101)	1,2-Dibromo-3-Chloropr...	14.373	75	11590	23.92	ug/L #	68
102)	Hexachlorobutadiene	14.914	225	60192	25.31	ug/L	84
103)	1,2,4-Trichlorobenzene	14.961	180	101221	22.96	ug/L	96
104)	Naphthalene	15.249	128	183330	28.99	ug/L	99
105)	1,2,3-Trichlorobenzene	15.413	180	86188	26.43	ug/L	95
107)	Ethanol	4.285	45	14216m	552.86	ug/L	
108)	acrolein	4.743	56	52303	98.34	ug/L	80
109)	Tert Butyl Alcohol	5.360	59	59624	211.46	ug/L	81
110)	tert Amyl alcohol	7.563	59	43868	199.61	ug/L	80
111)	Isobutyl alcohol	7.440	42	36449	426.94	ug/L #	84
112)	1,4-Dioxane	8.668	88	9972	394.89	ug/L	78
113)	3,3-Dimethyl-1-butanol	10.419	57	236911	1198.24	ug/L	97

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

7.3.2

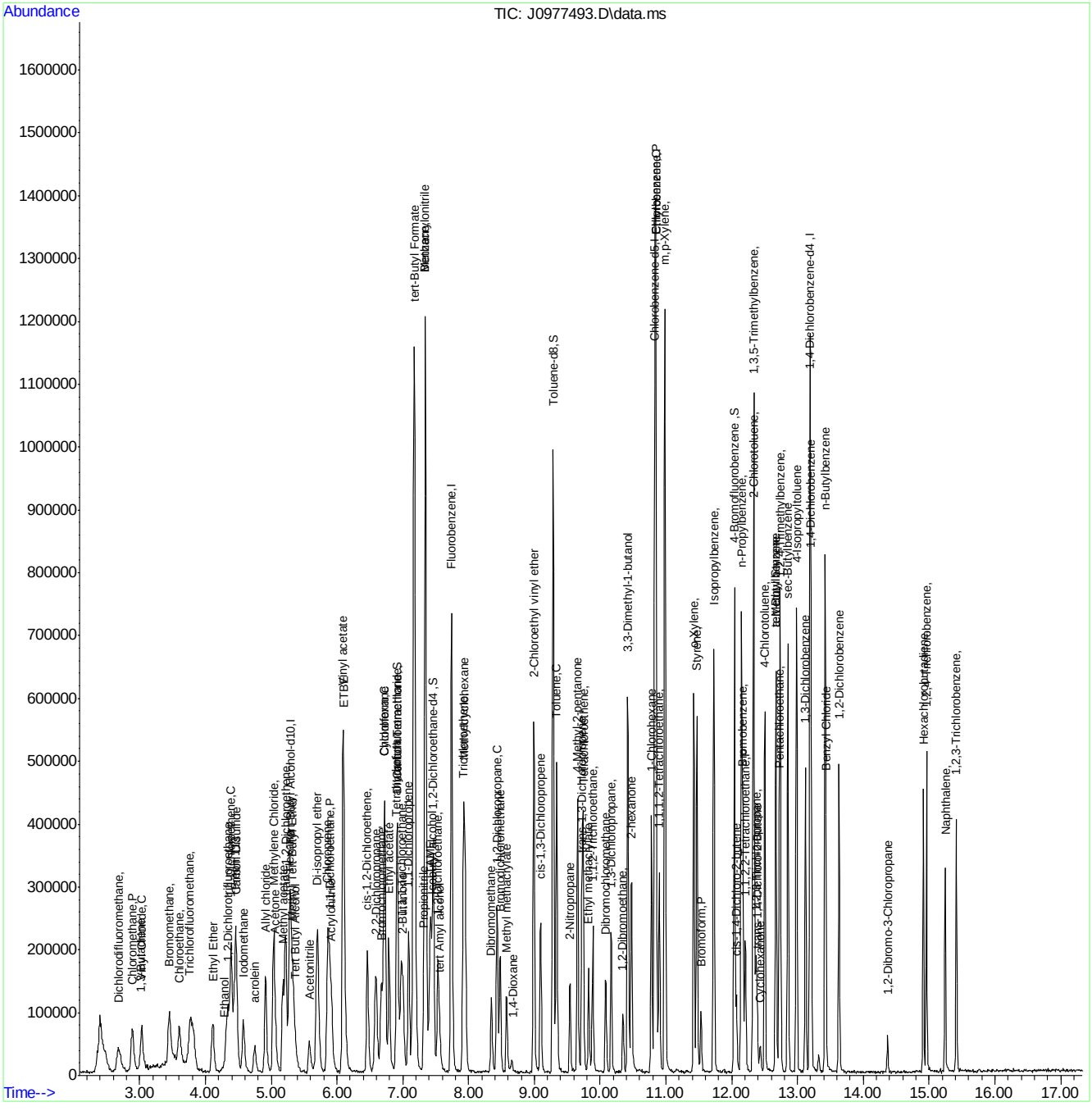
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977493.D
Acq On : 24 Jun 2016 9:22 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 10:10:35 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

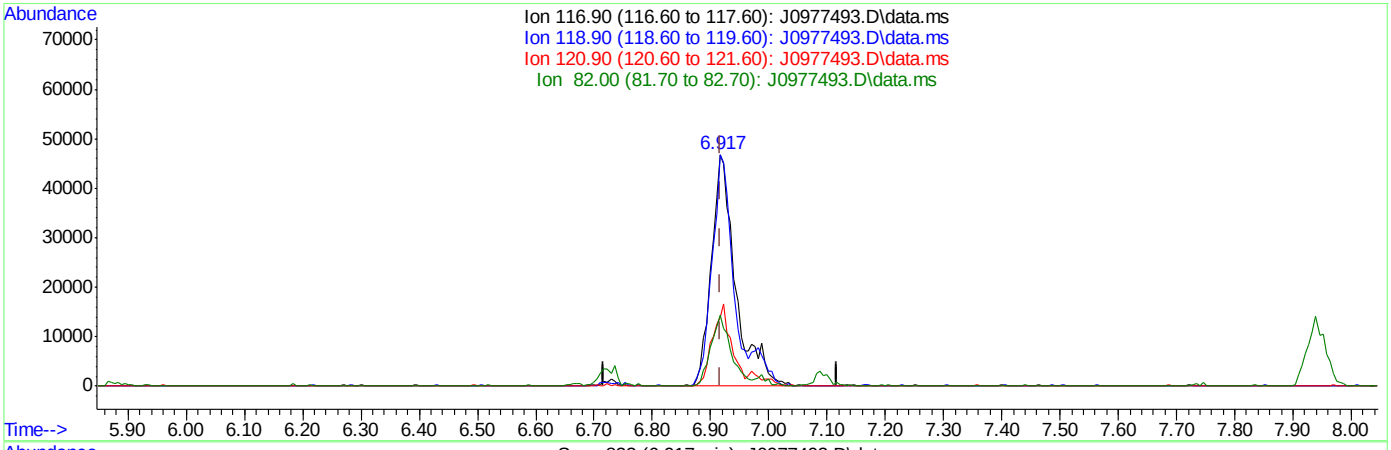
Sample Number:	VJ5348-BS	**Method:**	SW846 8260C
Lab FileID:	J0977493.D	**Analyst approved:**	06/25/16 11:35 Darshna Patel
Injection Time:	06/24/16 09:22	**Supervisor approved:**	06/27/16 10:50 Juan Garcia

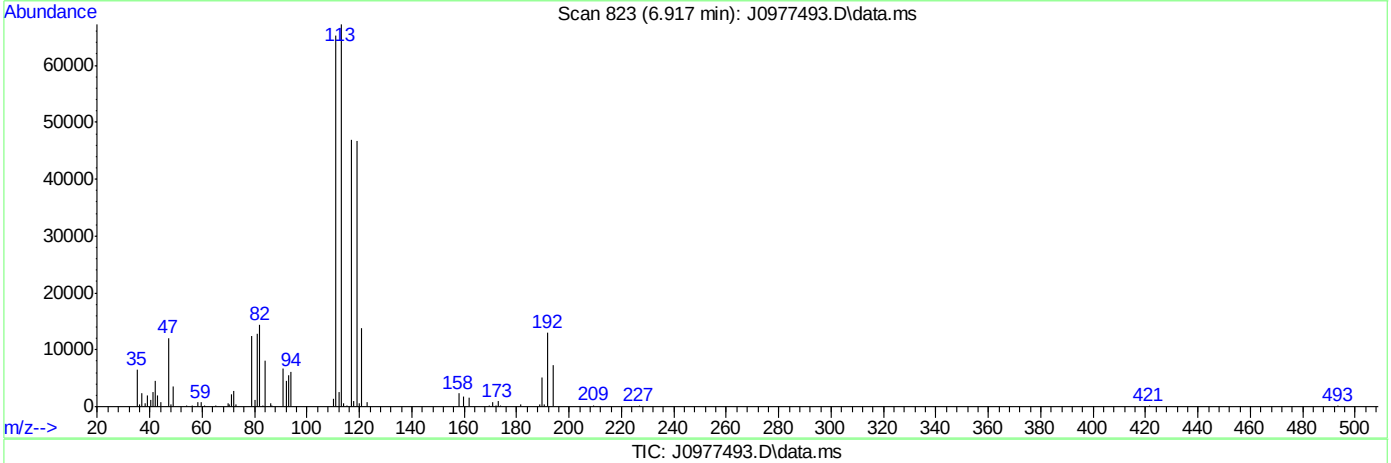
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977493.D
Acq On : 24 Jun 2016 9:22 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34215,vj5347,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 10:10:13 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977493.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 28.15ug/L

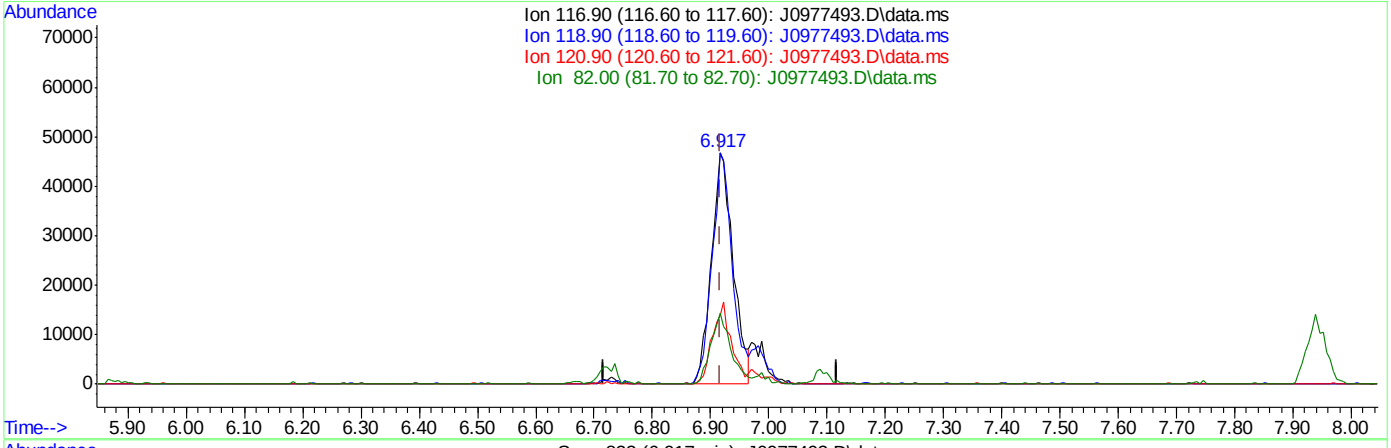
response 136492

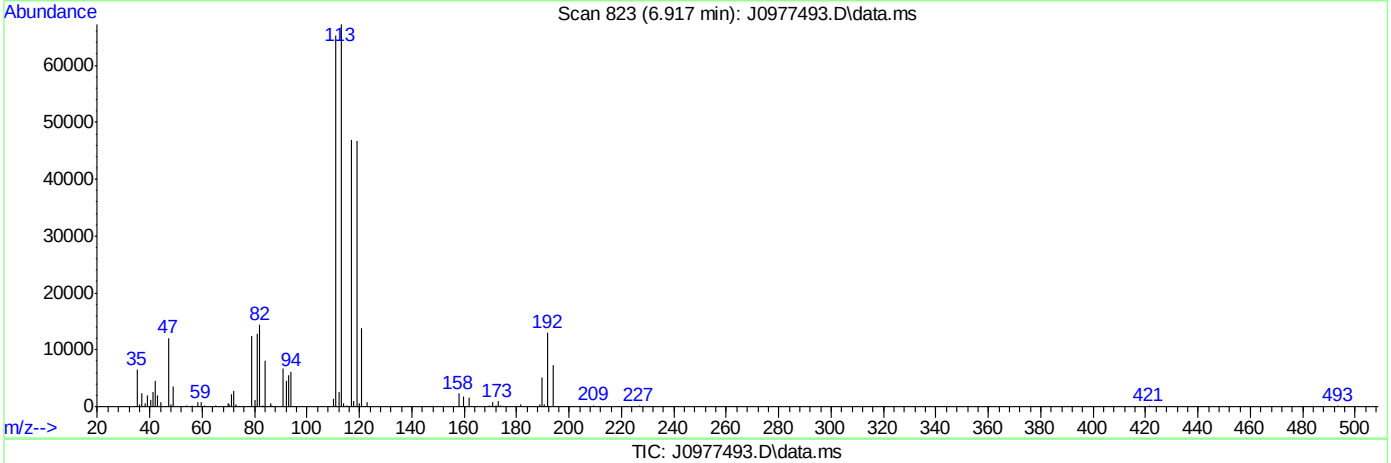
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	99.98
120.90	27.00	29.47
82.00	24.80	30.55

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977493.D
Acq On : 24 Jun 2016 9:22 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34215,vj5347,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 10:10:13 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977493.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 24.88ug/L m

response 120624

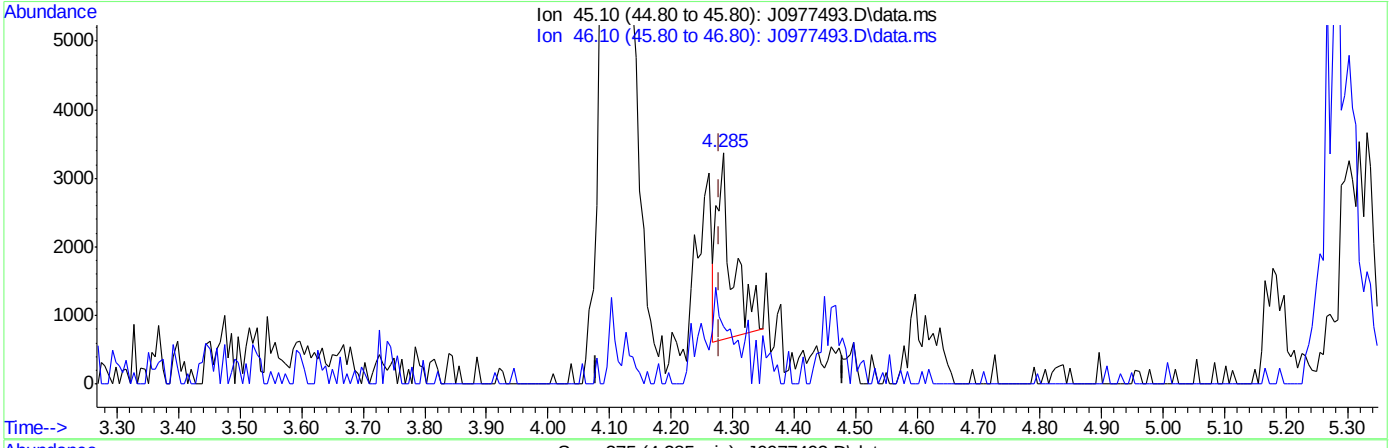
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	99.98
120.90	27.00	29.47
82.00	24.80	30.55

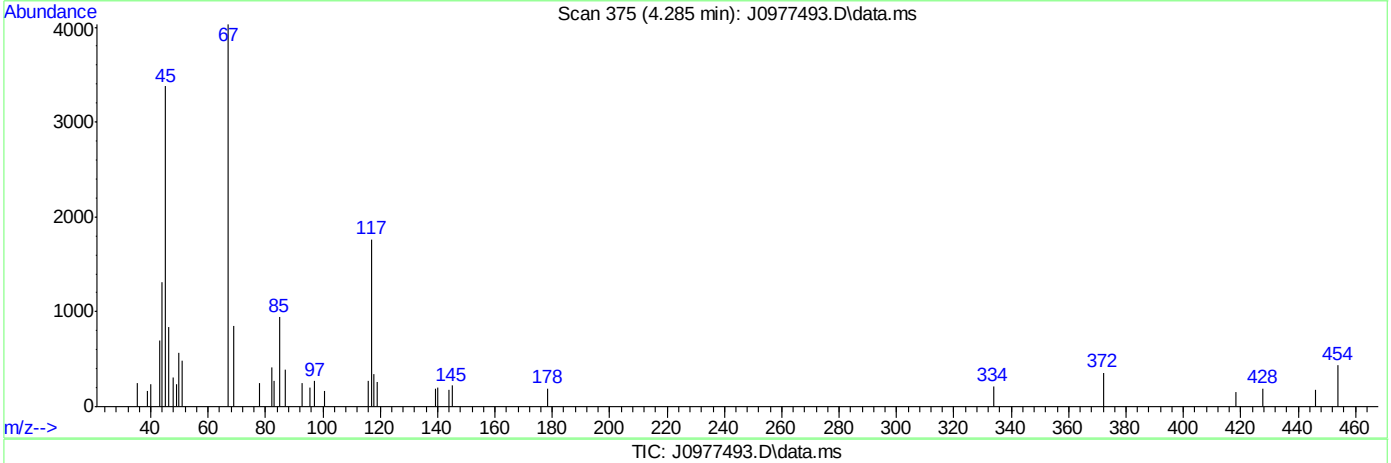
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977493.D
Acq On : 24 Jun 2016 9:22 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34215,vj5347,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 10:10:13 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977493.D\data.ms

(107) Ethanol

4.285min (+0.006) 179.36ug/L

response 4612

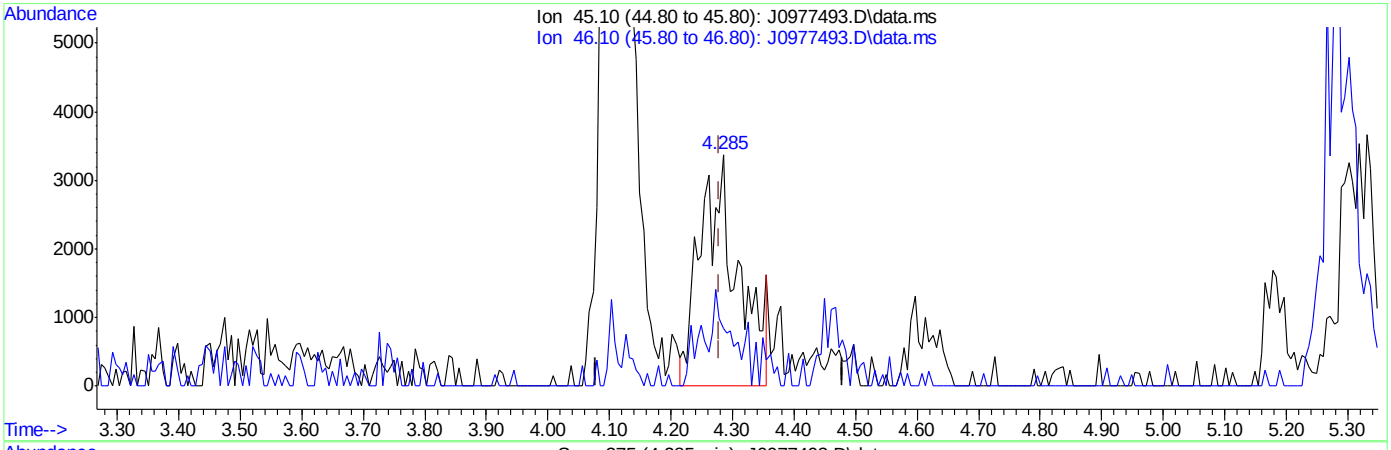
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	5.45
0.00	0.00	0.00
0.00	0.00	0.00

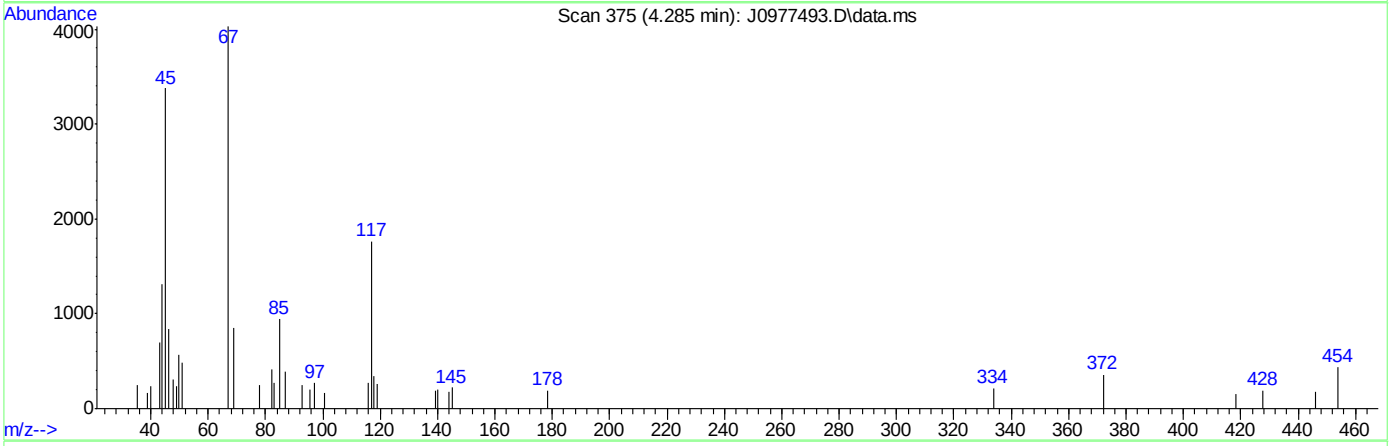
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977493.D
Acq On : 24 Jun 2016 9:22 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34215,vj5347,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 10:10:13 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977493.D\data.ms

(107) Ethanol

4.285min (+0.006) 552.86ug/L m

response 14216

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	24.99
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/28/16 13:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977584.D
Acq On : 27 Jun 2016 9:47 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:05:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	540415	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	389064	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	189364	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	36919	250.00	ug/L	#-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	140382	49.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.72%			
46) 1,2-Dichloroethane-d4	7.463	65	182693	44.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 88.04%			
57) Toluene-d8	9.285	98	518937	50.46	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.92%			
79) 4-Bromofluorobenzene	12.041	95	188360	51.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.687	85	79170	20.46	ug/L	94
3) Chloromethane	2.892	50	93346	23.82	ug/L	92
4) Vinyl Chloride	3.045	62	97965	25.23	ug/L	97
5) 1,3-Butadiene	3.027	54	11522	3.79	ug/L	79
6) Bromomethane	3.462	94	91626	28.27	ug/L	89
7) Chloroethane	3.603	64	66140	25.44	ug/L	95
8) Trichlorofluoromethane	3.809	101	178920m	27.35	ug/L	
9) Ethyl Ether	4.114	59	60028	23.36	ug/L	93
10) 1,2-Dichlorotrifluoroe...	4.344	67	97936	29.70	ug/L	85
11) 1,1-Dichloroethene	4.391	61	117490	23.88	ug/L	97
12) Freon 113	4.449	101	69830	23.46	ug/L	88
13) Carbon Disulfide	4.467	76	231490	25.59	ug/L	95
14) Iodomethane	4.579	142	101664	21.84	ug/L	95
15) Allyl chloride	4.913	41	94332	22.69	ug/L	89
16) Methylene Chloride	5.037	49	98654	22.73	ug/L	76
17) Acetone	5.060	58	20543	114.28	ug/L #	77
18) Methyl acetate	5.178	74	40658	123.83	ug/L #	83
19) trans-1,2-Dichloroethene	5.219	61	112460	27.86	ug/L	93
20) Hexane	5.284	56	68796	25.48	ug/L #	88
21) Methyl Tert Butyl Ether	5.331	73	180593	20.68	ug/L	86
22) Acetonitrile	5.577	40	29153	215.93	ug/L #	76
23) Di-isopropyl ether	5.695	45	229514	21.91	ug/L	95
24) Chloroprene	5.859	53	123134	21.69	ug/L	94
25) 1,1-Dichloroethane	5.883	63	142452	26.20	ug/L	95
26) Acrylonitrile	5.912	53	101196	128.53	ug/L	91
27) ETBE	6.106	59	226182	20.64	ug/L	96
28) Vinyl acetate	6.094	43	525967	91.27	ug/L	98
29) cis-1,2-Dichloroethene	6.465	96	80201	24.16	ug/L #	83
30) 2,2-Dichloropropane	6.588	77	108752	23.66	ug/L	97
31) Bromochloromethane	6.676	128	33770	23.22	ug/L	93
32) Cyclohexane	6.717	56	134416	26.34	ug/L	95
33) Chloroform	6.723	83	138662	22.42	ug/L	88
34) Ethyl acetate	6.788	43	213424	101.83	ug/L	96

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977584.D
Acq On : 27 Jun 2016 9:47 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:05:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	13974	23.17 ug/L #	82
37) Carbon Tetrachloride	6.923	117	110950m	25.00 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	120373	22.07 ug/L	97
39) 2-Butanone	7.005	43	88422	107.02 ug/L	88
40) 1,1-Dichloropropene	7.087	75	99508	25.05 ug/L	88
41) tert-Butyl Formate	7.176	59	404333	216.30 ug/L	88
42) Propionitrile	7.317	54	77059	263.58 ug/L	89
43) Methacrylonitrile	7.346	41	323389	243.26 ug/L	96
44) Benzene	7.346	78	284764	25.71 ug/L	96
45) TAME	7.422	73	179347	20.43 ug/L	91
47) 1,2-Dichloroethane	7.528	62	105991	21.00 ug/L	88
48) Trichloroethene	7.922	95	78010	25.98 ug/L	94
49) Methylcyclohexane	7.945	83	128050	24.46 ug/L	90
50) Dibromomethane	8.345	93	42590	25.44 ug/L	85
51) 1,2-Dichloropropane	8.433	63	70240	24.00 ug/L	88
52) Bromodichloromethane	8.480	83	95974	21.34 ug/L	98
53) Methyl methacrylate	8.574	41	48093	23.24 ug/L #	80
54) 2-Chloroethyl vinyl ether	8.991	63	195755	125.02 ug/L	93
55) cis-1,3-Dichloropropene	9.091	75	105108	21.66 ug/L	85
58) Toluene	9.338	91	299281	24.57 ug/L	98
59) 2-Nitropropane	9.543	41	56412	81.65 ug/L	95
60) 4-Methyl-2-pentanone	9.661	43	201381	104.45 ug/L	95
61) trans-1,3-Dichloropropene	9.726	75	96057	23.36 ug/L	88
62) Tetrachloroethene	9.743	166	69042	23.12 ug/L	90
63) Ethyl methacrylate	9.825	69	66850	21.94 ug/L	87
64) 1,1,2-Trichloroethane	9.890	83	46732	23.27 ug/L	91
65) Dibromochloromethane	10.084	129	62358	21.39 ug/L	97
66) 1,3-Dichloropropane	10.172	76	94241	22.19 ug/L	90
67) 1,2-Dibromoethane	10.348	107	52767	22.07 ug/L	98
68) 2-hexanone	10.472	43	136583	104.21 ug/L	95
69) 1-Chlorohexane	10.783	91	96659	24.92 ug/L	93
70) Ethylbenzene	10.848	91	358761	24.71 ug/L	98
71) Chlorobenzene	10.848	112	189080	24.35 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.901	131	68816	25.72 ug/L	92
73) m,p-Xylene	10.983	91	542632	48.35 ug/L	96
74) o-Xylene	11.424	91	272562	23.00 ug/L	91
75) Styrene	11.471	104	202987	23.16 ug/L	96
76) Bromoform	11.529	173	30175	17.80 ug/L	94
77) Isopropylbenzene	11.729	105	333860	24.50 ug/L	95
80) cis-1,4-Dichloro-2-butene	12.076	53	19194	21.06 ug/L #	83
81) n-Propylbenzene	12.146	91	434497	28.77 ug/L	92
82) Bromobenzene	12.170	156	71823	23.87 ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.205	83	71573	27.79 ug/L	99
84) 1,3,5-Trimethylbenzene	12.328	105	288308	25.70 ug/L	98
85) 2-Chlorotoluene	12.334	91	271533	25.67 ug/L	94
86) trans-1,4-Dichloro-2-B...	12.387	53	17724	19.75 ug/L #	73
87) 1,2,3-Trichloropropane	12.370	110	19223	25.33 ug/L	89
88) Cyclohexanone	12.434	55	15390	239.99 ug/L	82
89) 4-Chlorotoluene	12.505	91	253842	25.12 ug/L	99
90) a-Methyl Styrene	12.599	118	12363	2.31 ug/L	97

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977584.D
Acq On : 27 Jun 2016 9:47 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:05:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	170512	26.11	ug/L		96
92)	1,2,4-Trimethylbenzene	12.740	105	291509	25.72	ug/L		98
93)	Pentachloroethane	12.722	167	48044	28.11	ug/L		90
94)	sec-Butylbenzene	12.851	105	384512	28.64	ug/L		99
95)	4-Isopropyltoluene	12.986	119	311049	27.36	ug/L		97
96)	1,3-Dichlorobenzene	13.122	146	143555	26.31	ug/L		97
97)	1,4-Dichlorobenzene	13.204	146	146258	26.33	ug/L		94
98)	n-Butylbenzene	13.421	92	182400	28.09	ug/L		92
99)	Benzyl Chloride	13.433	126	20930	22.16	ug/L	#	73
100)	1,2-Dichlorobenzene	13.633	146	132603	26.04	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.367	75	9369	20.88	ug/L	#	76
102)	Hexachlorobutadiene	14.914	225	48510	22.03	ug/L		96
103)	1,2,4-Trichlorobenzene	14.961	180	87166	21.35	ug/L		97
104)	Naphthalene	15.243	128	170158	29.05	ug/L		99
105)	1,2,3-Trichlorobenzene	15.413	180	70542	23.49	ug/L		89
107)	Ethanol	4.250	45	10239m	531.33	ug/L		
108)	acrolein	4.755	56	43624	109.61	ug/L	#	65
109)	Tert Butyl Alcohol	5.366	59	45671	216.15	ug/L		89
110)	tert Amyl alcohol	7.563	59	37645	228.56	ug/L		89
111)	Isobutyl alcohol	7.434	42	34125	534.33	ug/L	#	85
112)	1,4-Dioxane	8.656	88	10948	580.68	ug/L		96
113)	3,3-Dimethyl-1-butanol	10.419	57	203754	1367.09	ug/L		88

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

7.3.3

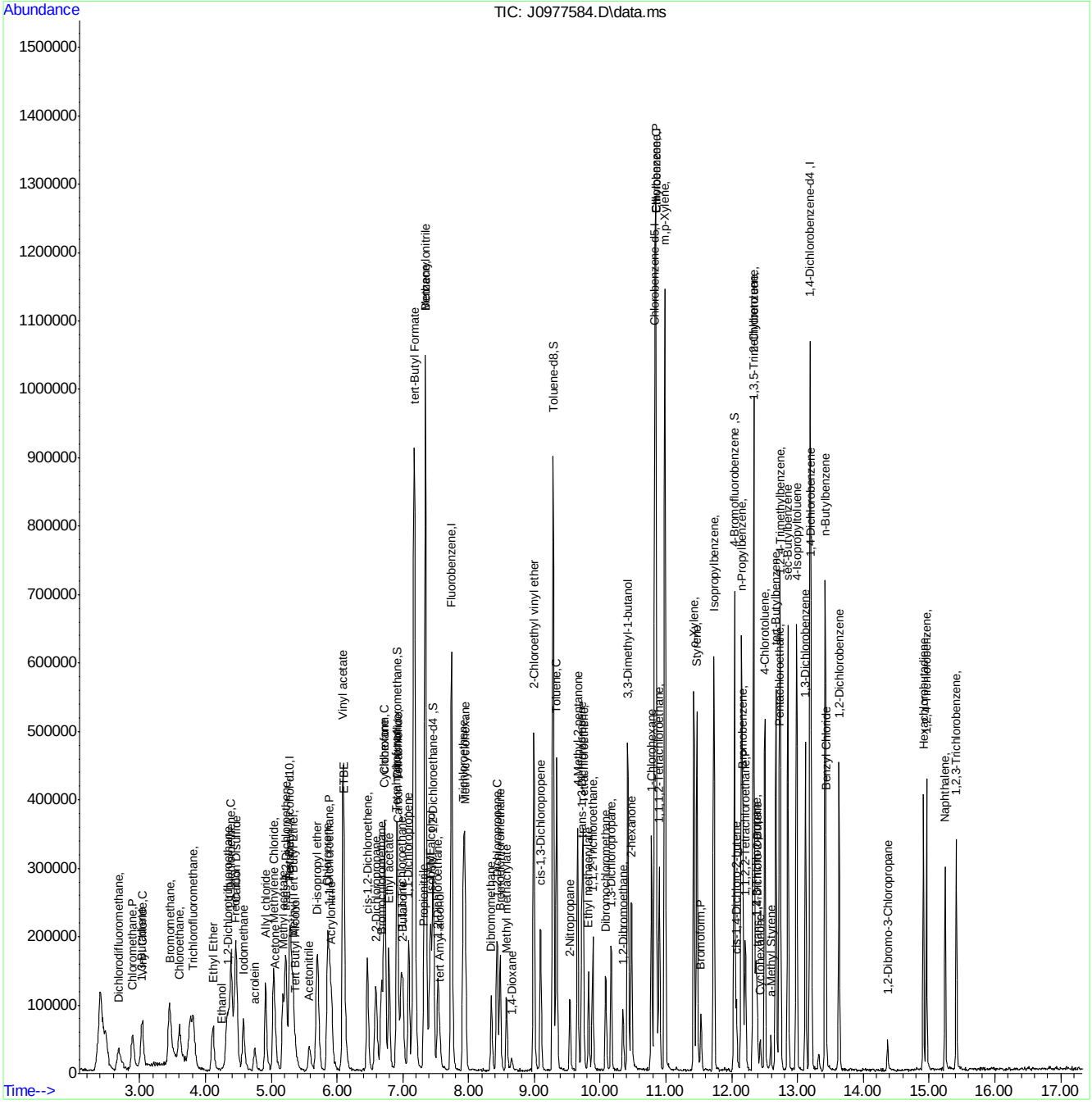
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977584.D
Acq On : 27 Jun 2016 9:47 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:05:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



MSJ062116a.M Tue Jun 28 10:15:44 2016 Page: 4

SGS ACCUTEST FA34821

Manual Integration Approval Summary

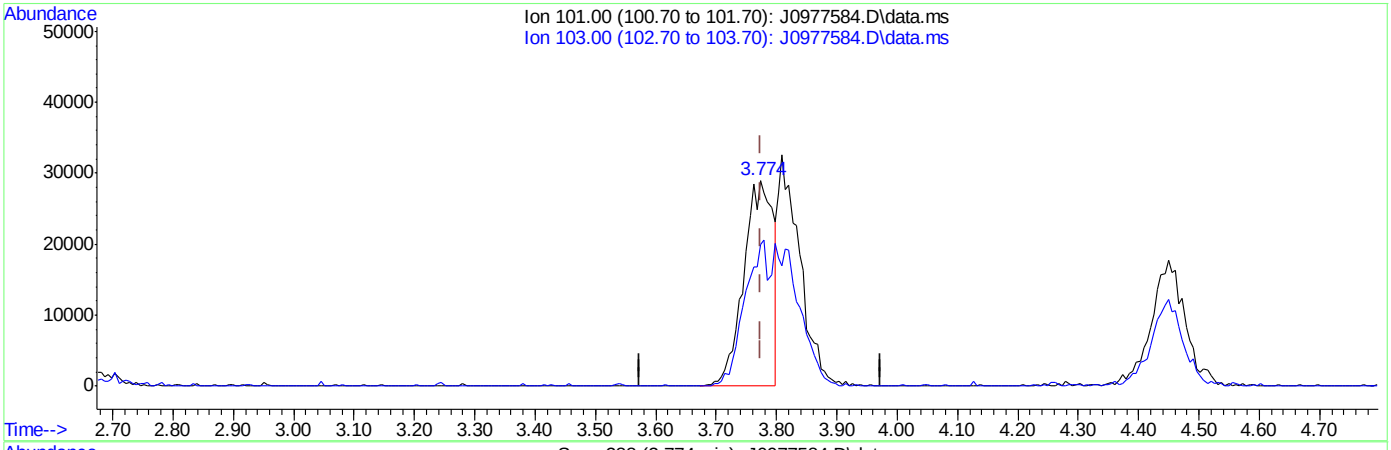
Sample Number:	VJ5352-BS	**Method:**	SW846 8260C
Lab FileID:	J0977584.D	**Analyst approved:**	06/28/16 12:45 Darshna Patel
Injection Time:	06/27/16 09:47	**Supervisor approved:**	06/28/16 13:33 Juan Garcia

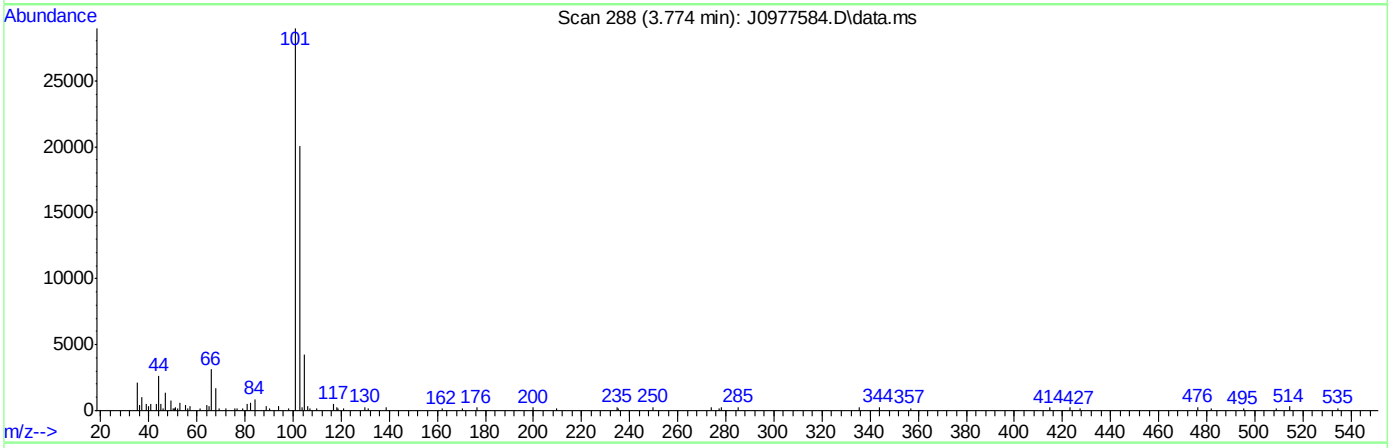
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.25	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977584.D
Acq On : 27 Jun 2016 9:47 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:05:23 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977584.D\data.ms

(8) Trichlorofluoromethane ( )

3.774min (+0.000) 14.57ug/L

response 96857

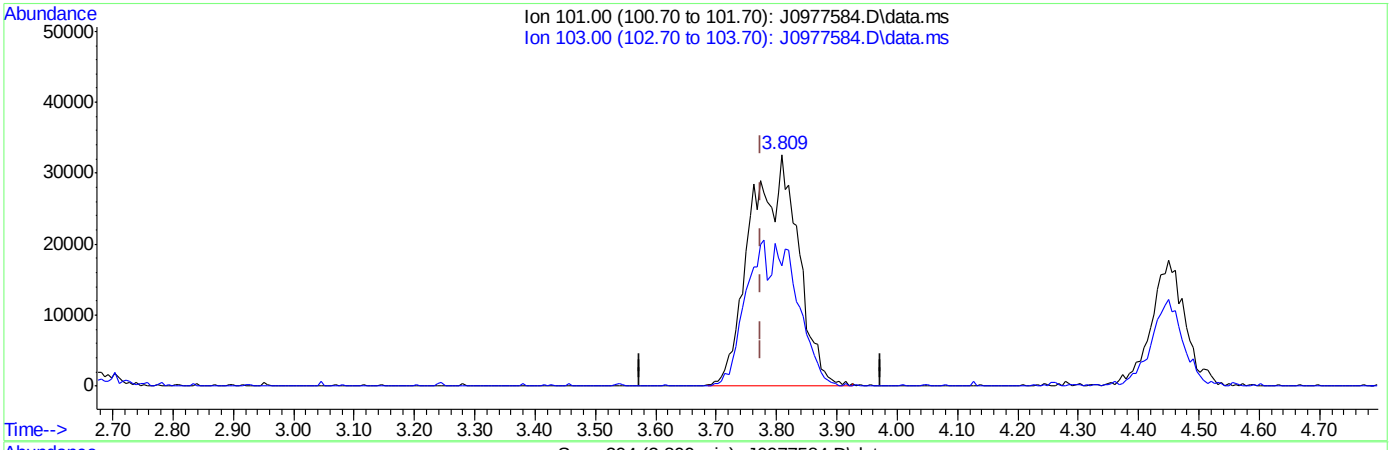
Ion	Exp%	Act%
101.00	100	100
103.00	54.90	69.12
0.00	0.00	0.00
0.00	0.00	0.00

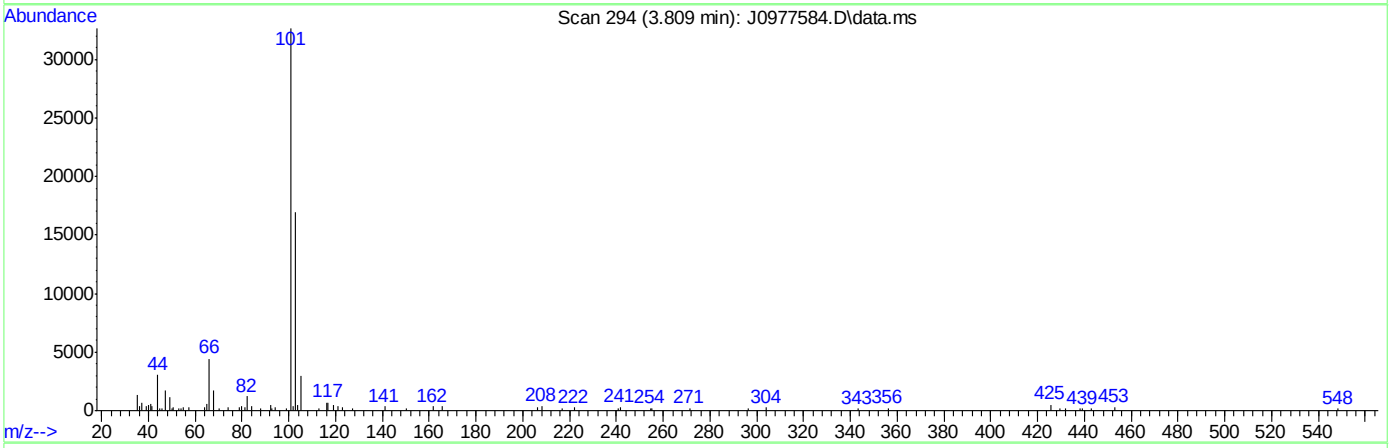
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977584.D
Acq On : 27 Jun 2016 9:47 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:05:23 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.809min (+0.035) 27.35ug/L m

response 178920

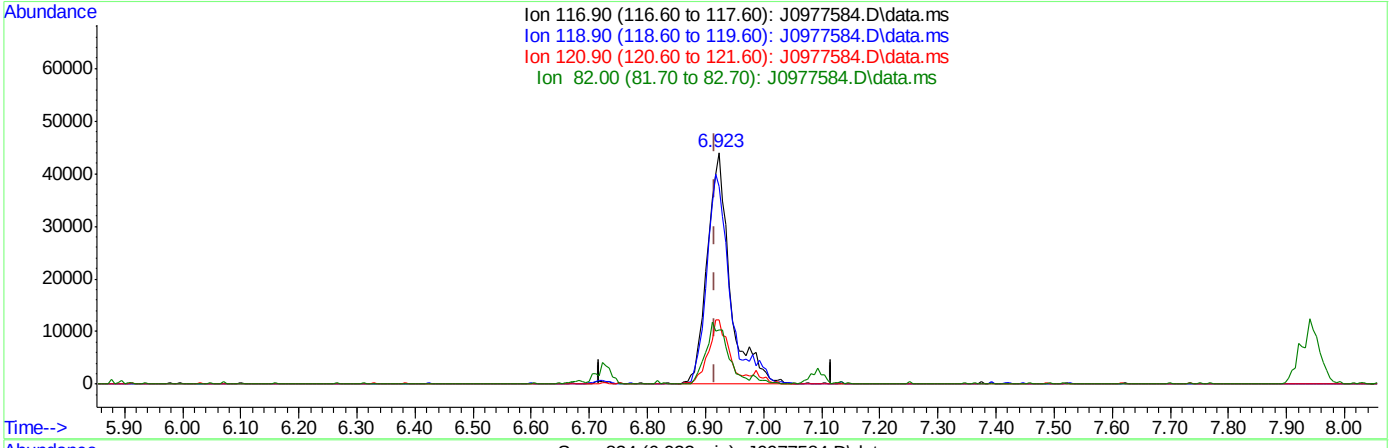
Ion	Exp%	Act%
101.00	100	100
103.00	54.90	51.83
0.00	0.00	0.00
0.00	0.00	0.00

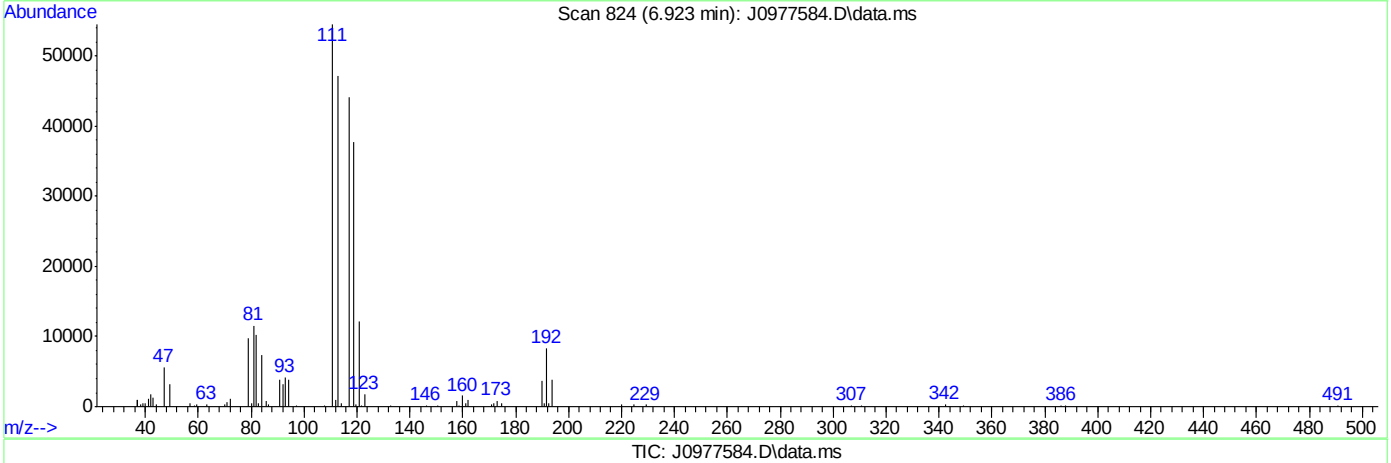
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977584.D
Acq On : 27 Jun 2016 9:47 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:05:23 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977584.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 27.51ug/L

response 122069

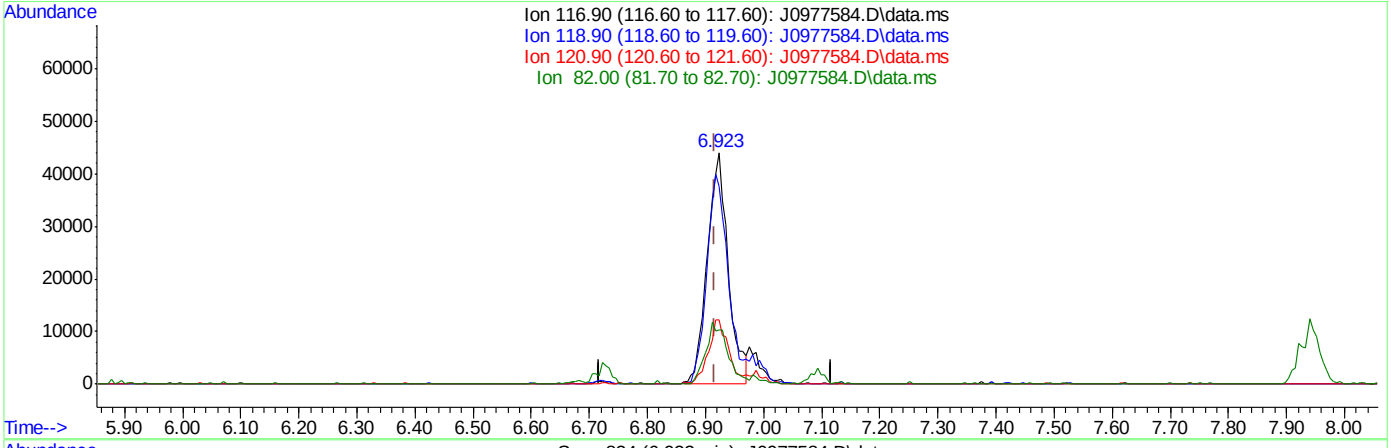
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	85.56
120.90	27.00	27.53
82.00	24.80	23.34

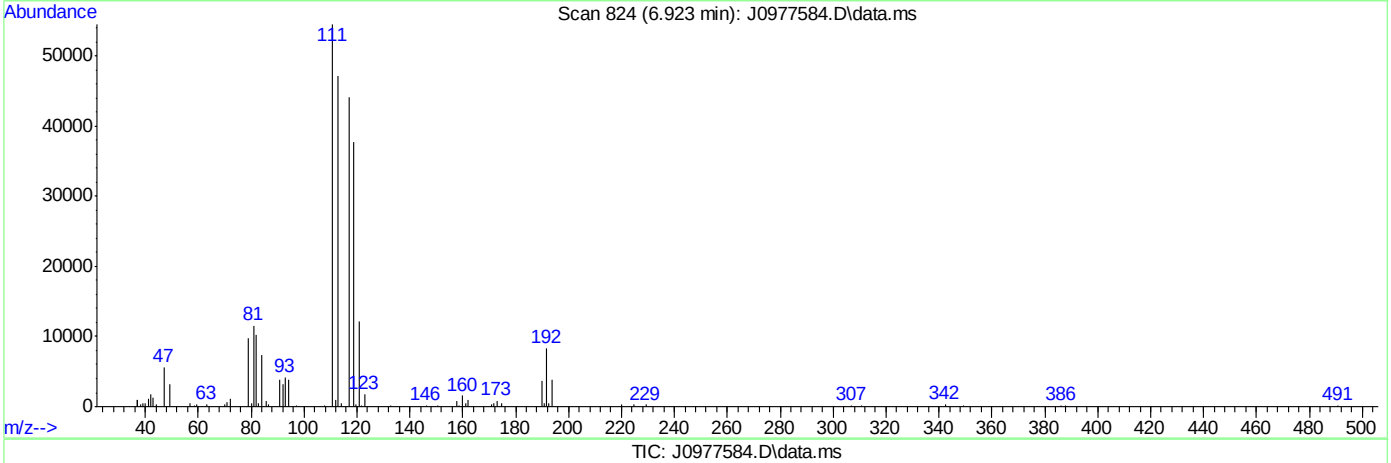
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977584.D
Acq On : 27 Jun 2016 9:47 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:05:23 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977584.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 25.00ug/L m

response 110950

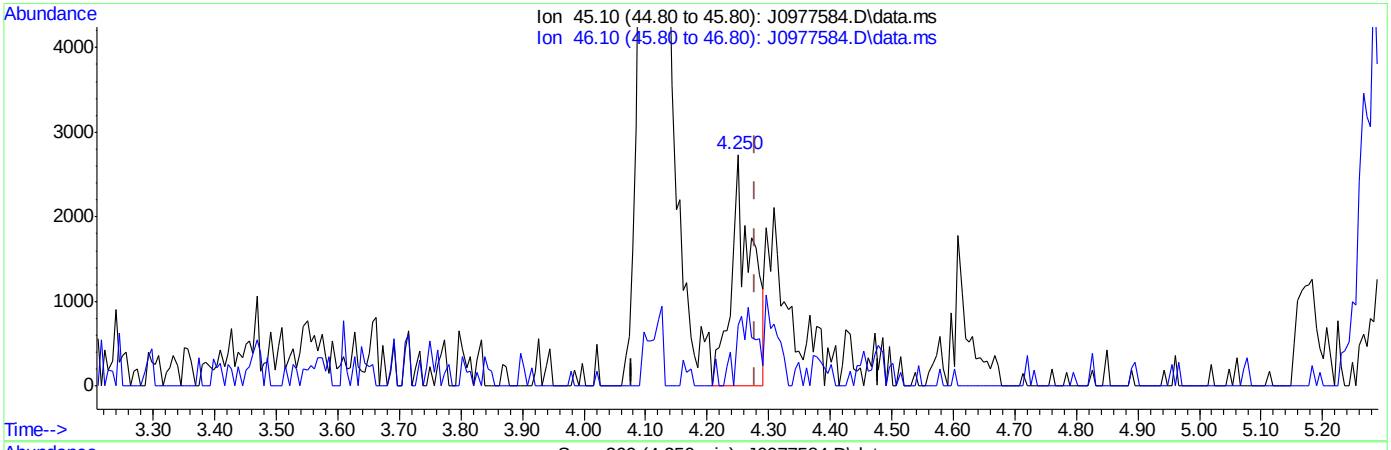
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	85.56
120.90	27.00	27.53
82.00	24.80	23.34

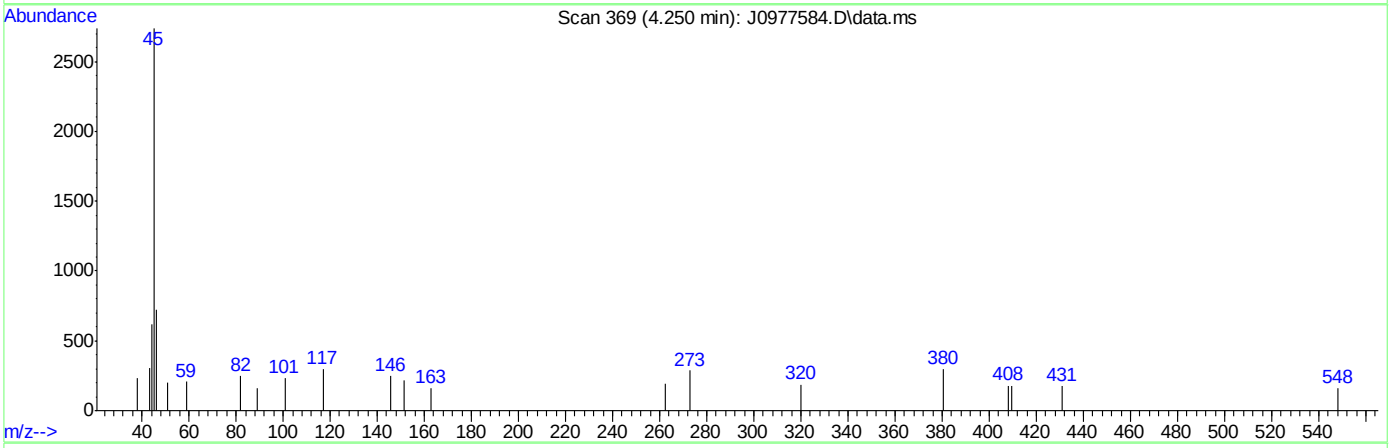
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977584.D
Acq On : 27 Jun 2016 9:47 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:05:23 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977584.D\data.ms

(107) Ethanol

4.250min (-0.029) 323.09ug/L

response 6226

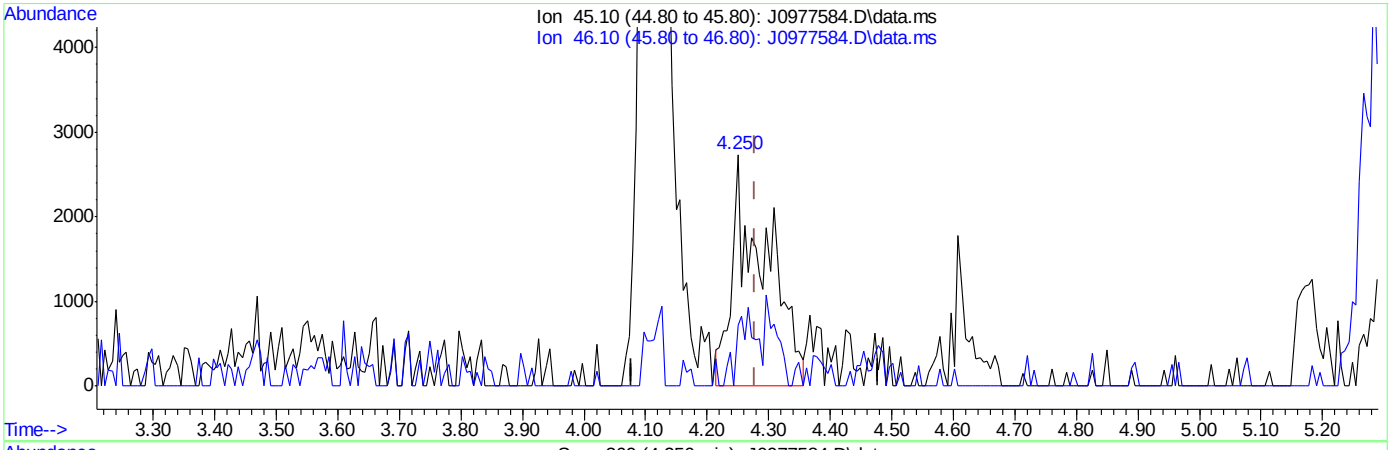
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	26.27
0.00	0.00	0.00
0.00	0.00	0.00

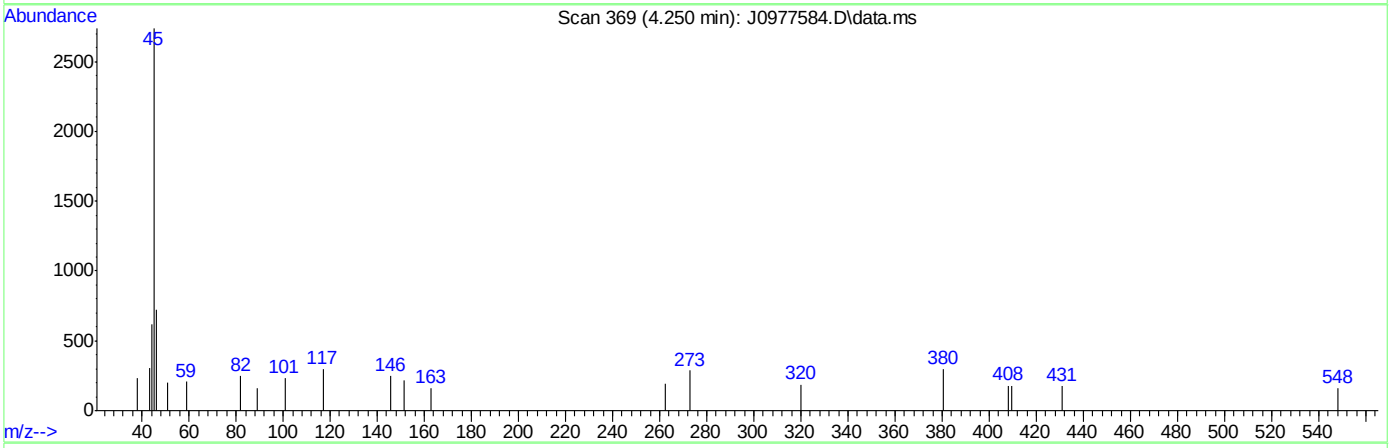
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977584.D
Acq On : 27 Jun 2016 9:47 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 10:05:23 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977584.D\data.ms

(107) Ethanol

4.250min (-0.029) 531.33ug/L m

response 10239

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	26.27
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/24/16 13:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977483.D
Acq On : 23 Jun 2016 5:39 pm
Operator : darshnap
Sample : fa34926-1ms ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:14:34 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	348281	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	239599	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	145158	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.295	65	30247	250.00	ug/L	# 0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	93457	50.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.96%			
46) 1,2-Dichloroethane-d4	7.463	65	159883	59.77	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 119.54%			
57) Toluene-d8	9.285	98	351561	55.51	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 111.02%			
79) 4-Bromofluorobenzene	12.041	95	137591	49.34	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	63470	25.66	ug/L	87
3) Chloromethane	2.886	50	61586	24.40	ug/L	96
4) Vinyl Chloride	3.033	62	60509	24.14	ug/L	99
5) 1,3-Butadiene	3.022	54	14014	7.20	ug/L #	72
6) Bromomethane	3.450	94	53540	25.48	ug/L	80
7) Chloroethane	3.603	64	43897	26.28	ug/L	89
8) Trichlorofluoromethane	3.750	101	129157	30.76	ug/L	100
9) Ethyl Ether	4.114	59	44509	26.88	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.338	67	69046	32.49	ug/L	82
11) 1,1-Dichloroethene	4.385	61	94162	29.96	ug/L	96
12) Freon 113	4.449	101	47690	24.91	ug/L	92
13) Carbon Disulfide	4.461	76	127331	21.84	ug/L	89
14) Iodomethane	4.573	142	63725	21.24	ug/L	82
15) Allyl chloride	4.914	41	66488	24.82	ug/L	87
16) Methylene Chloride	5.031	49	80799	28.89	ug/L	95
17) Acetone	5.060	58	19598	169.17	ug/L #	55
18) Methyl acetate	5.184	74	28019	132.42	ug/L	96
19) trans-1,2-Dichloroethene	5.213	61	89145	34.27	ug/L	89
20) Hexane	5.290	56	57048	32.78	ug/L #	89
21) Methyl Tert Butyl Ether	5.325	73	147445	26.20	ug/L	91
22) Acetonitrile	5.577	40	23628	272.08	ug/L #	51
23) Di-isopropyl ether	5.707	45	181042	26.82	ug/L	95
24) Chloroprene	5.854	53	91228	25.03	ug/L	93
25) 1,1-Dichloroethane	5.883	63	102544	29.27	ug/L	95
26) Acrylonitrile	5.906	53	61732	121.58	ug/L	89
27) ETBE	6.106	59	165607	23.45	ug/L	96
28) Vinyl acetate	6.095	43	385575	103.81	ug/L	99
29) cis-1,2-Dichloroethene	6.465	96	49658	23.21	ug/L	96
30) 2,2-Dichloropropane	6.588	77	74670	25.21	ug/L	98
31) Bromochloromethane	6.670	128	20795	22.19	ug/L	90
32) Cyclohexane	6.723	56	87604	26.63	ug/L	95
33) Chloroform	6.729	83	99024	24.89	ug/L	99
34) Ethyl acetate	6.788	43	154000	114.01	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977483.D
Acq On : 23 Jun 2016 5:39 pm
Operator : darshnap
Sample : fa34926-1ms ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:14:34 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	9396	24.18 ug/L	80
37) Carbon Tetrachloride	6.917	117	78260	27.37 ug/L	91
38) 1,1,1-Trichloroethane	6.976	97	95175	27.08 ug/L	96
39) 2-Butanone	7.011	43	78253	146.97 ug/L	94
40) 1,1-Dichloropropene	7.082	75	63642	24.86 ug/L	95
41) tert-Butyl Formate	7.176	59	16269	13.72 ug/L #	52
42) Propionitrile	7.317	54	46420	246.37 ug/L	85
43) Methacrylonitrile	7.346	41	238683	278.59 ug/L	96
44) Benzene	7.340	78	178908	25.05 ug/L	91
45) TAME	7.417	73	120265	21.26 ug/L	99
47) 1,2-Dichloroethane	7.534	62	90832	28.09 ug/L	91
48) Trichloroethene	7.916	95	51090	26.41 ug/L	98
49) Methylcyclohexane	7.939	83	89270	26.46 ug/L	89
50) Dibromomethane	8.345	93	30278	28.01 ug/L	84
51) 1,2-Dichloropropane	8.433	63	51163	27.13 ug/L	90
52) Bromodichloromethane	8.480	83	69798	24.08 ug/L	92
53) Methyl methacrylate	8.580	41	39717	29.80 ug/L	93
55) cis-1,3-Dichloropropene	9.097	75	71690	22.92 ug/L	82
58) Toluene	9.338	91	196888	26.29 ug/L	97
59) 2-Nitropropane	9.543	41	59849	140.67 ug/L	85
60) 4-Methyl-2-pentanone	9.655	43	210612	177.38 ug/L	93
61) trans-1,3-Dichloropropene	9.726	75	67858	26.79 ug/L	85
62) Tetrachloroethene	9.743	166	50096	27.24 ug/L	92
63) Ethyl methacrylate	9.825	69	46594	24.83 ug/L	92
64) 1,1,2-Trichloroethane	9.884	83	37776	30.77 ug/L	90
65) Dibromochloromethane	10.084	129	39882	22.21 ug/L	80
66) 1,3-Dichloropropane	10.166	76	65897	25.23 ug/L	93
67) 1,2-Dibromoethane	10.348	107	36556	24.85 ug/L	94
68) 2-hexanone	10.478	43	131695	163.16 ug/L	92
69) 1-Chlorohexane	10.783	91	63929	26.77 ug/L	92
70) Ethylbenzene	10.848	91	230602	25.79 ug/L	100
71) Chlorobenzene	10.854	112	121098	25.35 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.901	131	43973	26.69 ug/L	92
73) m,p-Xylene	10.983	91	364135	52.69 ug/L	98
74) o-Xylene	11.424	91	187101	25.69 ug/L	98
75) Styrene	11.471	104	112399	20.83 ug/L	89
76) Bromoform	11.535	173	17703	16.96 ug/L	92
77) Isopropylbenzene	11.729	105	358745	42.75 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.076	53	13923	19.97 ug/L #	62
81) n-Propylbenzene	12.146	91	353907	30.57 ug/L	93
82) Bromobenzene	12.170	156	52742	22.85 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.205	83	50282	25.48 ug/L	95
84) 1,3,5-Trimethylbenzene	12.328	105	195445	22.72 ug/L	92
85) 2-Chlorotoluene	12.340	91	202441	24.97 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.381	53	13990	20.35 ug/L #	78
87) 1,2,3-Trichloropropane	12.370	110	14398	24.75 ug/L	89
88) Cyclohexanone	12.440	55	7215	147.86 ug/L	80
89) 4-Chlorotoluene	12.505	91	185167	23.86 ug/L	94
90) a-Methyl Styrene	12.740	118	2144	0.52 ug/L #	1
91) tert-Butylbenzene	12.669	91	128492	25.66 ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977483.D
Acq On : 23 Jun 2016 5:39 pm
Operator : darshnap
Sample : fa34926-1ms ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:14:34 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.740	105	198299	22.82	ug/L		99
93)	Pentachloroethane	12.716	167	33418	25.51	ug/L		88
94)	sec-Butylbenzene	12.857	105	276898	26.91	ug/L		99
95)	4-Isopropyltoluene	12.987	119	215166	24.69	ug/L		95
96)	1,3-Dichlorobenzene	13.122	146	98729	23.54	ug/L		96
97)	1,4-Dichlorobenzene	13.204	146	101754	23.83	ug/L		93
98)	n-Butylbenzene	13.415	92	129882	26.09	ug/L		94
99)	Benzyl Chloride	13.433	126	11698	16.16	ug/L	#	40
100)	1,2-Dichlorobenzene	13.633	146	91947	23.56	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.367	75	10042	29.20	ug/L		83
102)	Hexachlorobutadiene	14.914	225	37217	22.05	ug/L		86
103)	1,2,4-Trichlorobenzene	14.961	180	63839	20.40	ug/L		97
104)	Naphthalene	15.243	128	135263	30.02	ug/L		97
105)	1,2,3-Trichlorobenzene	15.413	180	58164	25.19	ug/L		92
107)	Ethanol	4.244	45	9424m	596.91	ug/L		
108)	acrolein	4.749	56	21618	65.91	ug/L		88
109)	Tert Butyl Alcohol	5.366	59	62730	363.34	ug/L		95
110)	tert Amyl alcohol	7.569	59	24053	178.25	ug/L		86
111)	Isobutyl alcohol	7.440	42	26523	506.67	ug/L	#	54
112)	1,4-Dioxane	8.650	88	6710	433.11	ug/L		92
113)	3,3-Dimethyl-1-butanol	10.419	57	144017	1186.81	ug/L		97

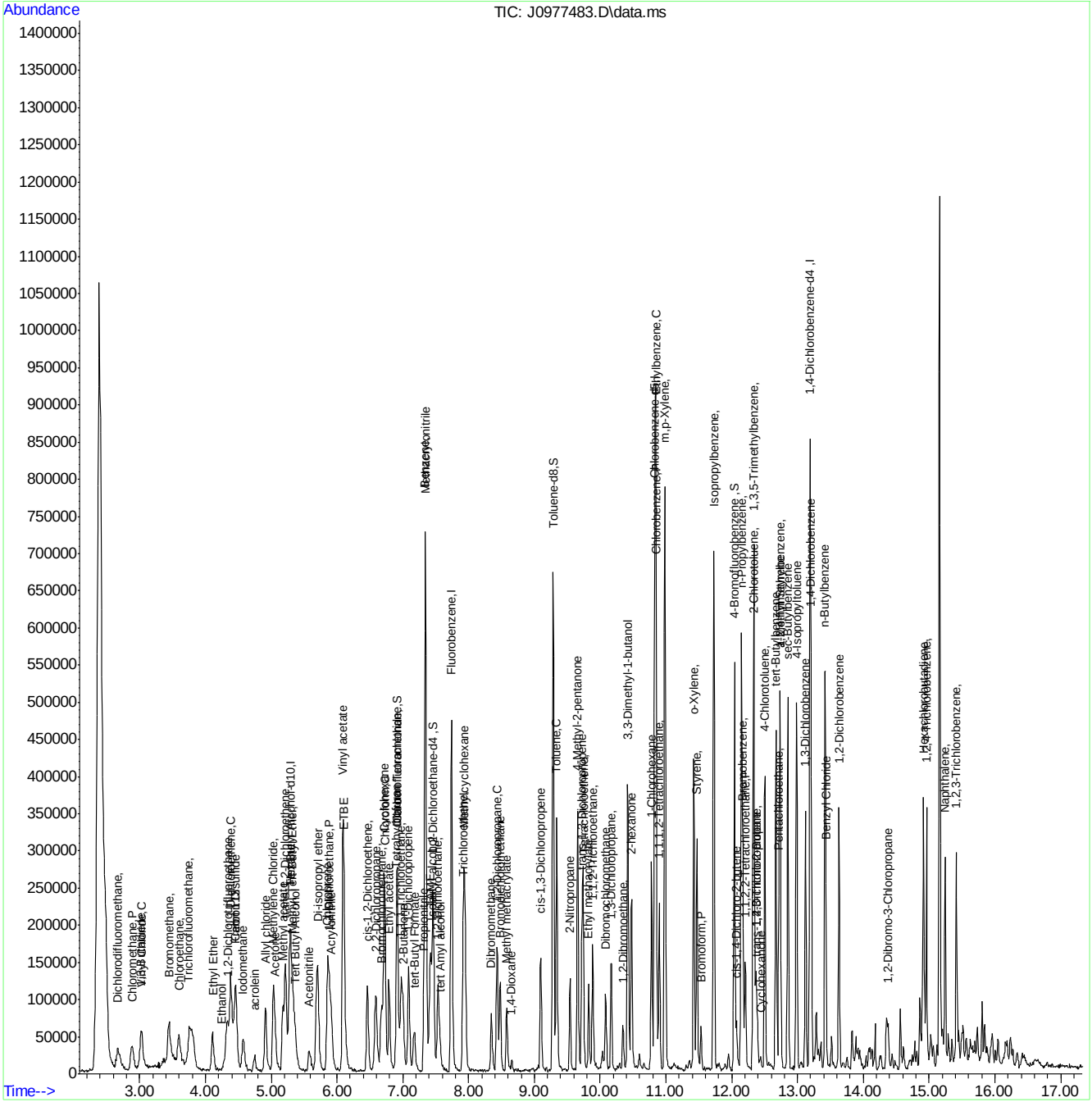
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977483.D
Acq On : 23 Jun 2016 5:39 pm
Operator : darshnap
Sample : fa34926-1ms ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:14:34 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jun 24 08:45:29 2016 Page: 4

SGS ACCUTEST FA34821

Manual Integration Approval Summary

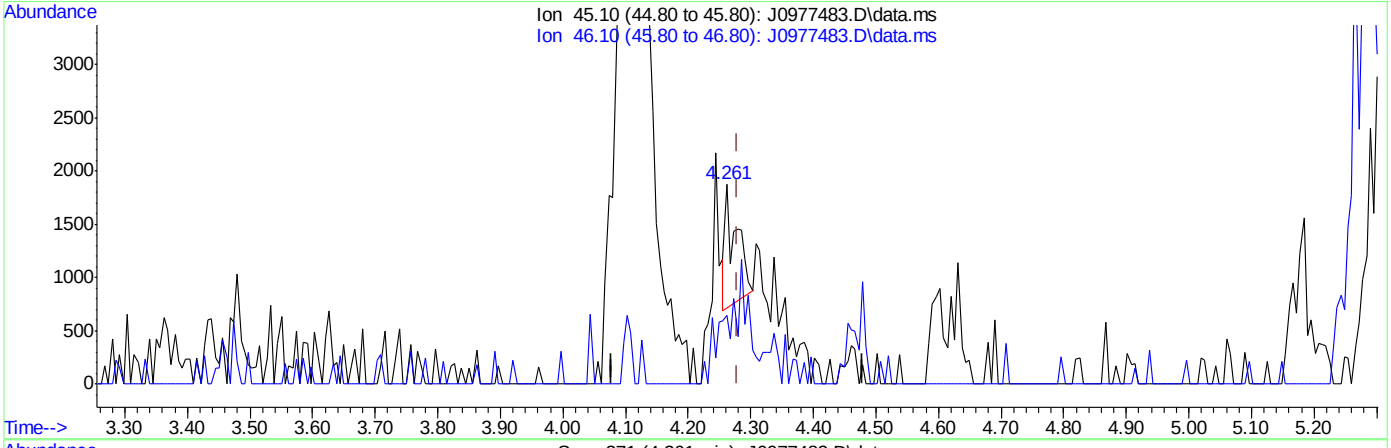
Sample Number:	FA34926-1MS	**Method:**	SW846 8260C
Lab FileID:	J0977483.D	**Analyst approved:**	06/24/16 10:44 Darshna Patel
Injection Time:	06/23/16 17:39	**Supervisor approved:**	06/24/16 13:59 Juan Garcia

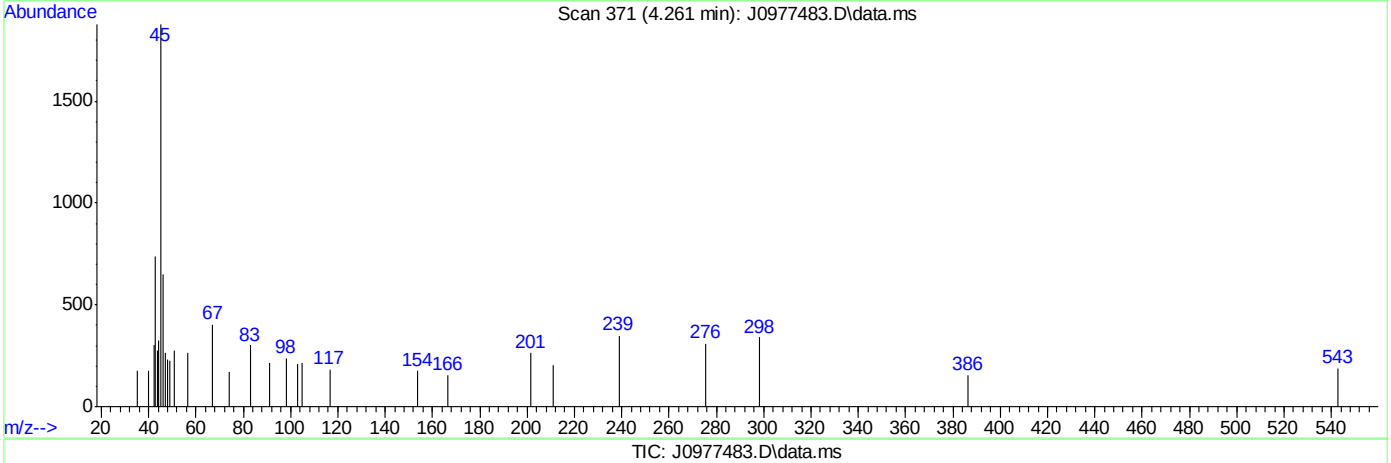
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.24	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977483.D
Acq On : 23 Jun 2016 5:39 pm
Operator : darshnap
Sample : fa34926-1ms ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:00:11 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977483.D\data.ms

(107) Ethanol

4.261min (-0.018) 91.21ug/L

response 1440

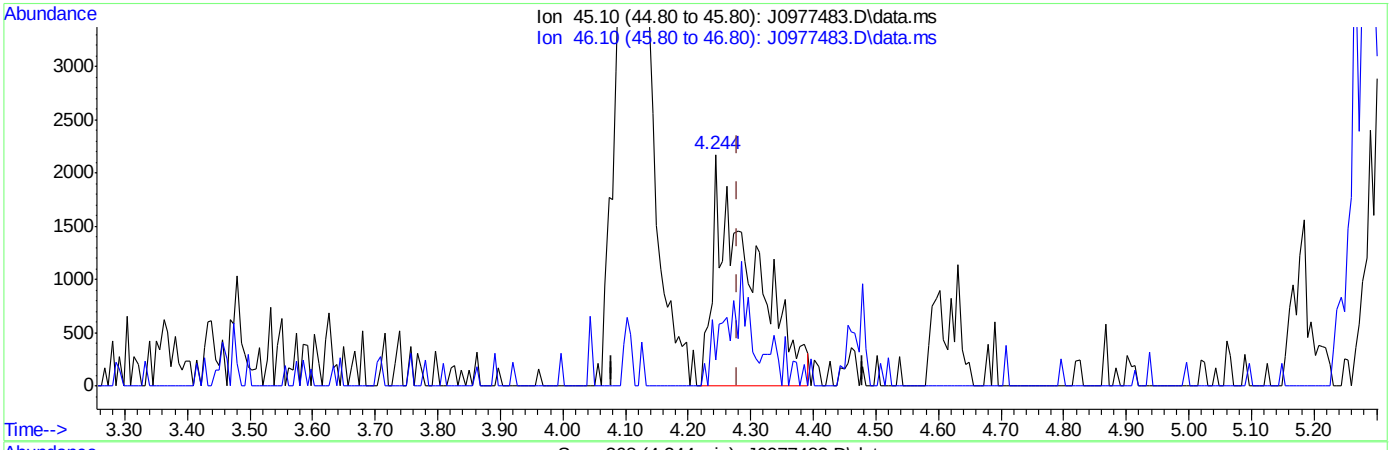
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	32.76
0.00	0.00	0.00
0.00	0.00	0.00

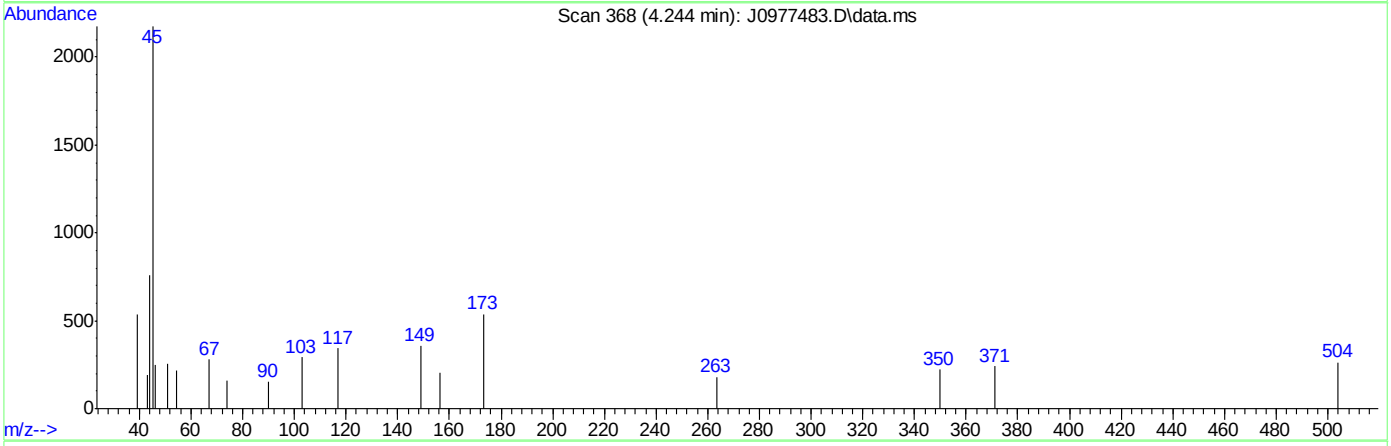
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977483.D
Acq On : 23 Jun 2016 5:39 pm
Operator : darshnap
Sample : fa34926-1ms ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:00:11 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977483.D\data.ms

(107) Ethanol

4.244min (-0.035) 596.91ug/L m

response 9424

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	11.45
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/24/16 13:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977484.D
Acq On : 23 Jun 2016 6:02 pm
Operator : darshnap
Sample : fa34926-1msd ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:15:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	448745	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	348139	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	188131	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.296	65	39759	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	135637	57.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 114.86%			
46) 1,2-Dichloroethane-d4	7.470	65	195153	56.62	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 113.24%			
57) Toluene-d8	9.285	98	451344	49.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.10%			
79) 4-Bromofluorobenzene	12.041	95	182524	50.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	73365	22.92	ug/L	92
3) Chloromethane	2.898	50	83832	25.82	ug/L	83
4) Vinyl Chloride	3.039	62	78308	24.25	ug/L	96
5) 1,3-Butadiene	3.033	54	18863	7.52	ug/L #	85
6) Bromomethane	3.451	94	62417	22.93	ug/L	76
7) Chloroethane	3.609	64	54038	24.99	ug/L	91
8) Trichlorofluoromethane	3.786	101	139766	25.67	ug/L	91
9) Ethyl Ether	4.126	59	56029	26.26	ug/L #	85
10) 1,2-Dichlorotrifluoroe...	4.344	67	84043	30.69	ug/L	83
11) 1,1-Dichloroethene	4.391	61	111075	27.32	ug/L	98
12) Freon 113	4.449	101	54461	21.99	ug/L	87
13) Carbon Disulfide	4.467	76	154531	20.57	ug/L	99
14) Iodomethane	4.579	142	82603	21.37	ug/L	95
15) Allyl chloride	4.920	41	79378	23.00	ug/L	92
16) Methylene Chloride	5.043	49	101063	28.05	ug/L	94
17) Acetone	5.055	58	22057	147.77	ug/L #	69
18) Methyl acetate	5.178	74	39969	146.60	ug/L #	79
19) trans-1,2-Dichloroethene	5.225	61	101100	30.16	ug/L	90
20) Hexane	5.284	56	68474	30.54	ug/L	95
21) Methyl Tert Butyl Ether	5.331	73	178365	24.60	ug/L	93
22) Acetonitrile	5.583	40	29133	260.26	ug/L	98
23) Di-isopropyl ether	5.707	45	224907	25.86	ug/L	94
24) Chloroprene	5.860	53	105389	22.38	ug/L	96
25) 1,1-Dichloroethane	5.889	63	129799	28.75	ug/L	96
26) Acrylonitrile	5.924	53	83746	128.09	ug/L	97
27) ETBE	6.106	59	219329	24.11	ug/L	92
28) Vinyl acetate	6.095	43	502679	105.04	ug/L	99
29) cis-1,2-Dichloroethene	6.459	96	65269	23.68	ug/L	91
30) 2,2-Dichloropropane	6.594	77	93322	24.45	ug/L	93
31) Bromochloromethane	6.676	128	30725	25.44	ug/L #	75
32) Cyclohexane	6.723	56	119320	28.16	ug/L	88
33) Chloroform	6.723	83	132719	25.91	ug/L	94
34) Ethyl acetate	6.794	43	230158	132.24	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977484.D
Acq On : 23 Jun 2016 6:02 pm
Operator : darshnap
Sample : fa34926-1msd ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:15:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
35)	Tetrahydrofuran	6.911	42	17045	34.04 ug/L	#	73
37)	Carbon Tetrachloride	6.923	117	90325m	24.51 ug/L		
38)	1,1,1-Trichloroethane	6.976	97	116648	25.76 ug/L		96
39)	2-Butanone	7.011	43	117593	171.41 ug/L		97
40)	1,1-Dichloropropene	7.088	75	90894	27.56 ug/L		92
41)	tert-Butyl Formate	7.176	59	17560	11.49 ug/L	#	60
42)	Propionitrile	7.317	54	76264	314.15 ug/L		95
43)	Methacrylonitrile	7.346	41	343584	311.25 ug/L		95
44)	Benzene	7.346	78	239296	26.02 ug/L		92
45)	TAME	7.423	73	157511	21.61 ug/L		93
47)	1,2-Dichloroethane	7.540	62	103276	24.72 ug/L		93
48)	Trichloroethene	7.922	95	69102	27.72 ug/L		96
49)	Methylcyclohexane	7.945	83	104955	24.15 ug/L		91
50)	Dibromomethane	8.345	93	38173	27.42 ug/L		87
51)	1,2-Dichloropropane	8.439	63	60398	24.85 ug/L		92
52)	Bromodichloromethane	8.480	83	80594	21.58 ug/L		97
53)	Methyl methacrylate	8.580	41	49503	28.83 ug/L		98
55)	cis-1,3-Dichloropropene	9.097	75	85604	21.24 ug/L		99
58)	Toluene	9.338	91	249850	22.88 ug/L		96
59)	2-Nitropropane	9.544	41	69995	113.22 ug/L		89
60)	4-Methyl-2-pentanone	9.661	43	276329	160.17 ug/L		96
61)	trans-1,3-Dichloropropene	9.726	75	78689	21.38 ug/L		88
62)	Tetrachloroethene	9.743	166	59776	22.37 ug/L		97
63)	Ethyl methacrylate	9.826	69	66886	24.54 ug/L		92
64)	1,1,2-Trichloroethane	9.890	83	47508	26.52 ug/L		93
65)	Dibromochloromethane	10.084	129	47785	18.31 ug/L		92
66)	1,3-Dichloropropane	10.172	76	92215	24.29 ug/L		98
67)	1,2-Dibromoethane	10.349	107	52575	24.59 ug/L		99
68)	2-hexanone	10.478	43	192801	164.40 ug/L		98
69)	1-Chlorohexane	10.783	91	84330	24.30 ug/L	#	83
70)	Ethylbenzene	10.848	91	317738	24.46 ug/L		100
71)	Chlorobenzene	10.854	112	162234	23.32 ug/L		99
72)	1,1,1,2-Tetrachloroethane	10.901	131	53941	22.53 ug/L		84
73)	m,p-Xylene	10.983	91	485329	48.33 ug/L		99
74)	o-Xylene	11.424	91	253363	23.91 ug/L		97
75)	Styrene	11.471	104	142257	18.14 ug/L		95
76)	Bromoform	11.530	173	23305	15.36 ug/L		87
77)	Isopropylbenzene	11.729	105	463715	38.03 ug/L		97
80)	cis-1,4-Dichloro-2-butene	12.070	53	15244	16.95 ug/L	#	79
81)	n-Propylbenzene	12.146	91	456326	30.42 ug/L		96
82)	Bromobenzene	12.170	156	69909	23.37 ug/L		100
83)	1,1,2,2-Tetrachloroethane	12.205	83	68823	26.90 ug/L		97
84)	1,3,5-Trimethylbenzene	12.329	105	239923	21.52 ug/L		95
85)	2-Chlorotoluene	12.335	91	245318	23.34 ug/L		98
86)	trans-1,4-Dichloro-2-B...	12.387	53	15846	17.73 ug/L	#	64
87)	1,2,3-Trichloropropane	12.370	110	20944	27.78 ug/L		92
88)	Cyclohexanone	12.429	55	8945	141.52 ug/L	#	83
89)	4-Chlorotoluene	12.505	91	232465	23.08 ug/L		99
90)	a-Methyl Styrene	12.675	118	3260	0.61 ug/L	#	1
91)	tert-Butylbenzene	12.669	91	154400	23.79 ug/L		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977484.D
Acq On : 23 Jun 2016 6:02 pm
Operator : darshnap
Sample : fa34926-1msd ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:15:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.740	105	239596	21.28	ug/L		97
93)	Pentachloroethane	12.722	167	39992	23.55	ug/L		97
94)	sec-Butylbenzene	12.852	105	342499	25.68	ug/L		97
95)	4-Isopropyltoluene	12.987	119	263678	23.35	ug/L		99
96)	1,3-Dichlorobenzene	13.122	146	126318	23.23	ug/L		97
97)	1,4-Dichlorobenzene	13.204	146	123512	22.28	ug/L		94
98)	n-Butylbenzene	13.416	92	162120	25.13	ug/L		90
99)	Benzyl Chloride	13.433	126	15253	16.25	ug/L	#	59
100)	1,2-Dichlorobenzene	13.633	146	121398	24.00	ug/L		94
101)	1,2-Dibromo-3-Chloropr...	14.367	75	12596	28.26	ug/L		81
102)	Hexachlorobutadiene	14.914	225	50774	23.21	ug/L		87
103)	1,2,4-Trichlorobenzene	14.961	180	82995	20.46	ug/L		97
104)	Naphthalene	15.243	128	174017	29.82	ug/L		97
105)	1,2,3-Trichlorobenzene	15.413	180	74678	24.96	ug/L		95
107)	Ethanol	4.314	45	11071m	533.47	ug/L		
108)	acrolein	4.761	56	32016	74.35	ug/L	#	66
109)	Tert Butyl Alcohol	5.372	59	87559	385.98	ug/L		93
110)	tert Amyl alcohol	7.564	59	32208	181.58	ug/L	#	70
111)	Isobutyl alcohol	7.434	42	30712	445.87	ug/L	#	88
112)	1,4-Dioxane	8.656	88	11289	555.72	ug/L		72
113)	3,3-Dimethyl-1-butanol	10.419	57	214090	1335.30	ug/L		96

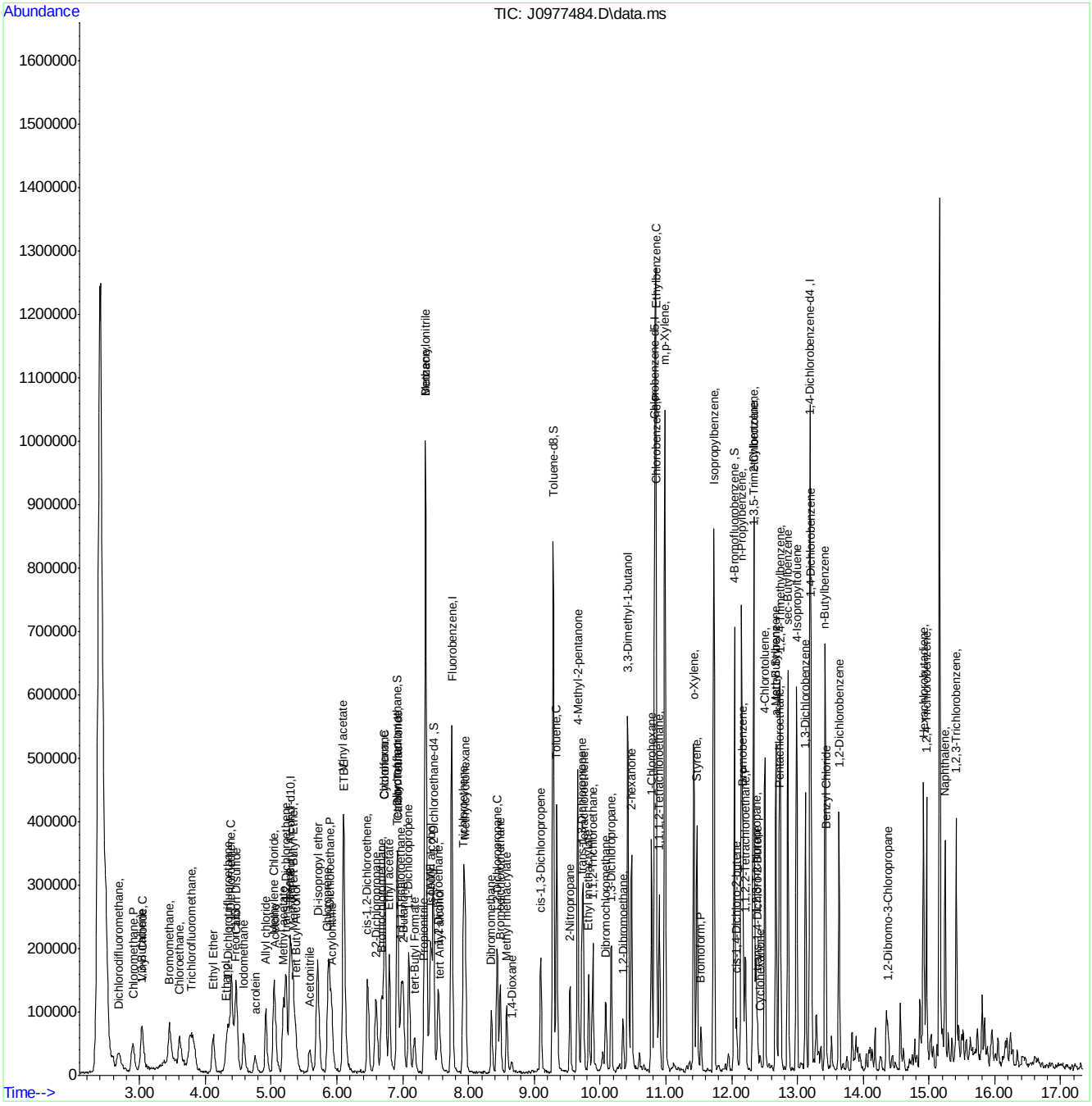
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977484.D
Acq On : 23 Jun 2016 6:02 pm
Operator : darshnap
Sample : fa34926-1msd ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:15:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

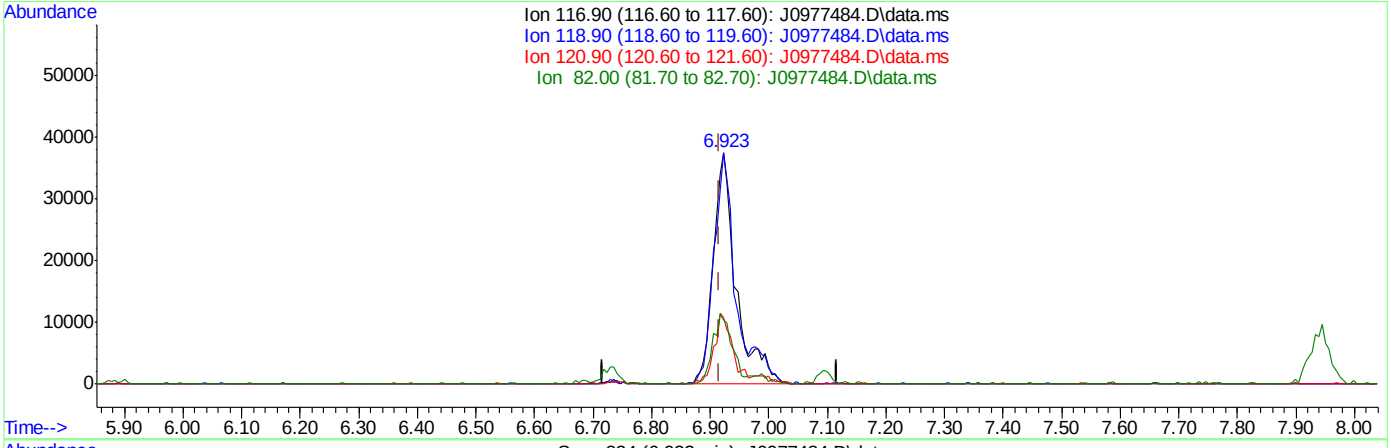
Sample Number:	FA34926-1MSD	**Method:**	SW846 8260C
Lab FileID:	J0977484.D	**Analyst approved:**	06/24/16 10:44 Darshna Patel
Injection Time:	06/23/16 18:02	**Supervisor approved:**	06/24/16 13:59 Juan Garcia

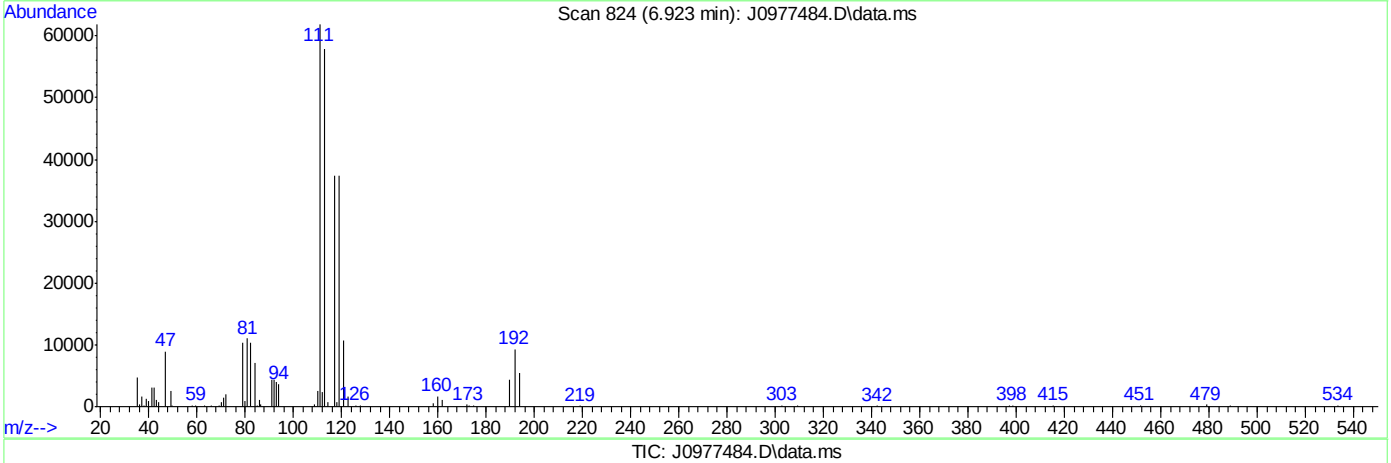
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.31	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977484.D
Acq On : 23 Jun 2016 6:02 pm
Operator : darshnap
Sample : fa34926-1msd ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:00:14 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977484.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 27.68ug/L

response 102009

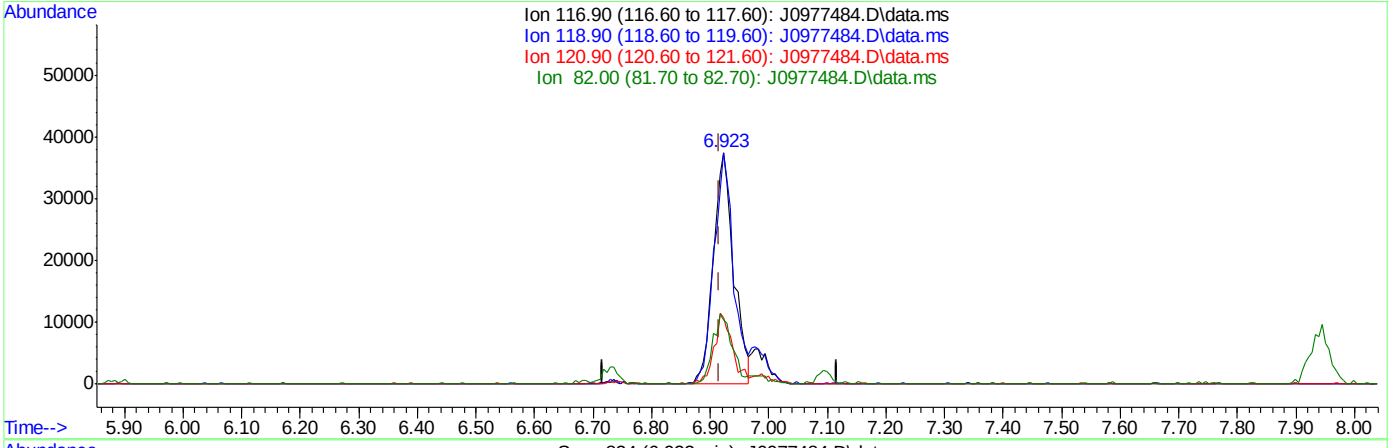
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	100.02
120.90	27.00	28.68
82.00	24.80	27.57

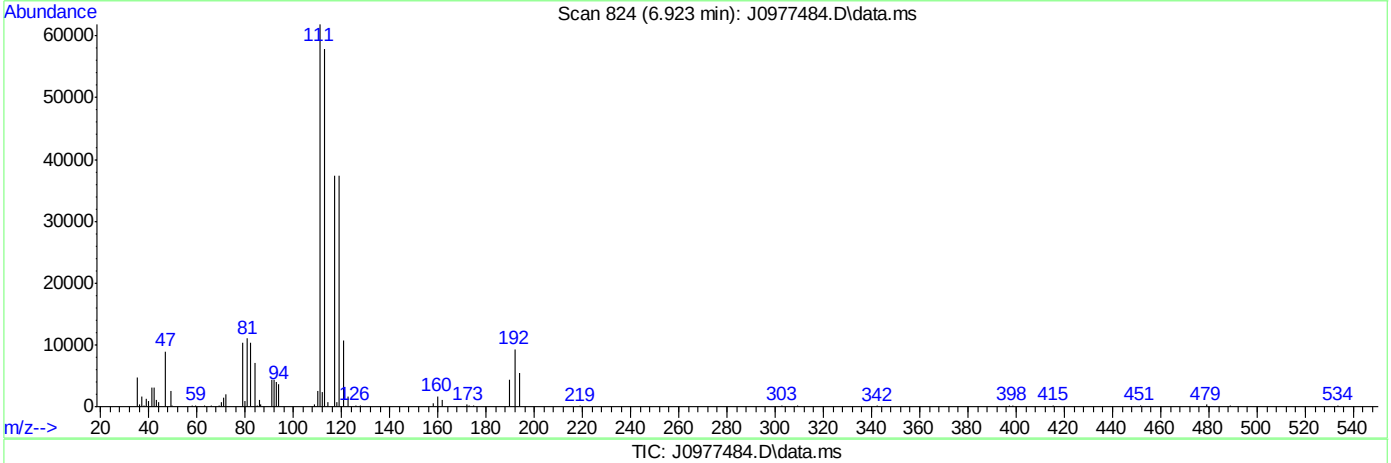
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977484.D
Acq On : 23 Jun 2016 6:02 pm
Operator : darshnap
Sample : fa34926-1msd ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:00:14 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977484.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 24.51ug/L m

response 90325

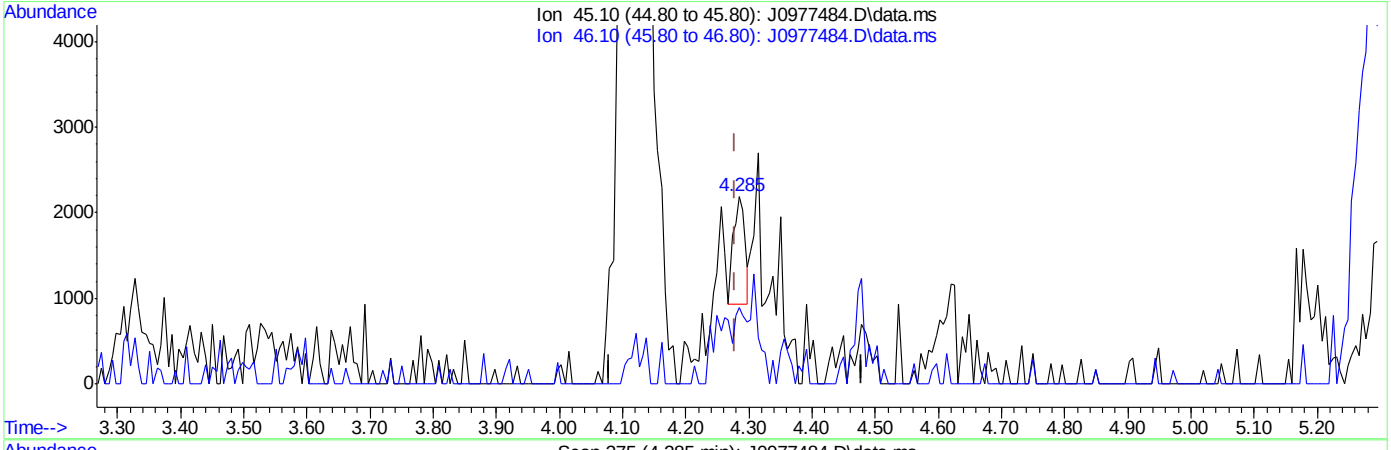
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	100.02
120.90	27.00	28.68
82.00	24.80	27.57

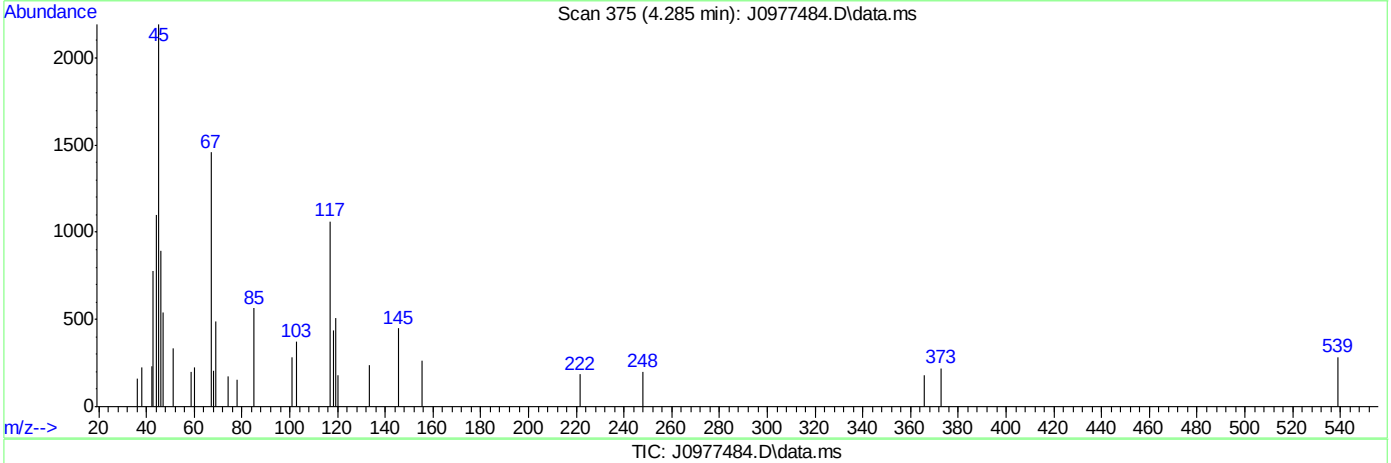
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977484.D
Acq On : 23 Jun 2016 6:02 pm
Operator : darshnap
Sample : fa34926-1msd ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:00:14 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977484.D\data.ms

(107) Ethanol

4.285min (+0.006) 76.95ug/L

response 1597

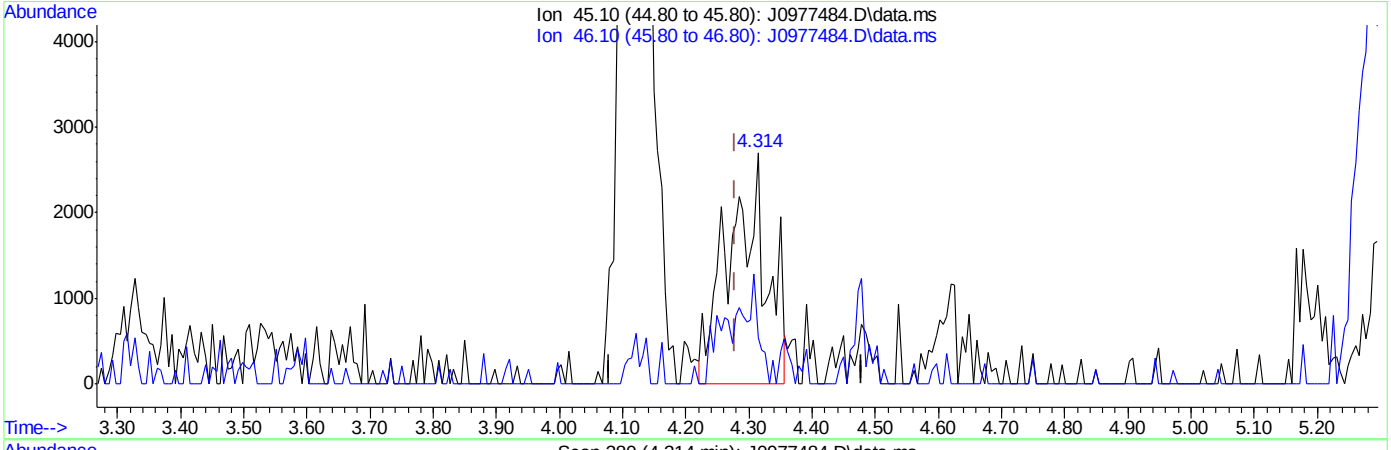
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	13.31
0.00	0.00	0.00
0.00	0.00	0.00

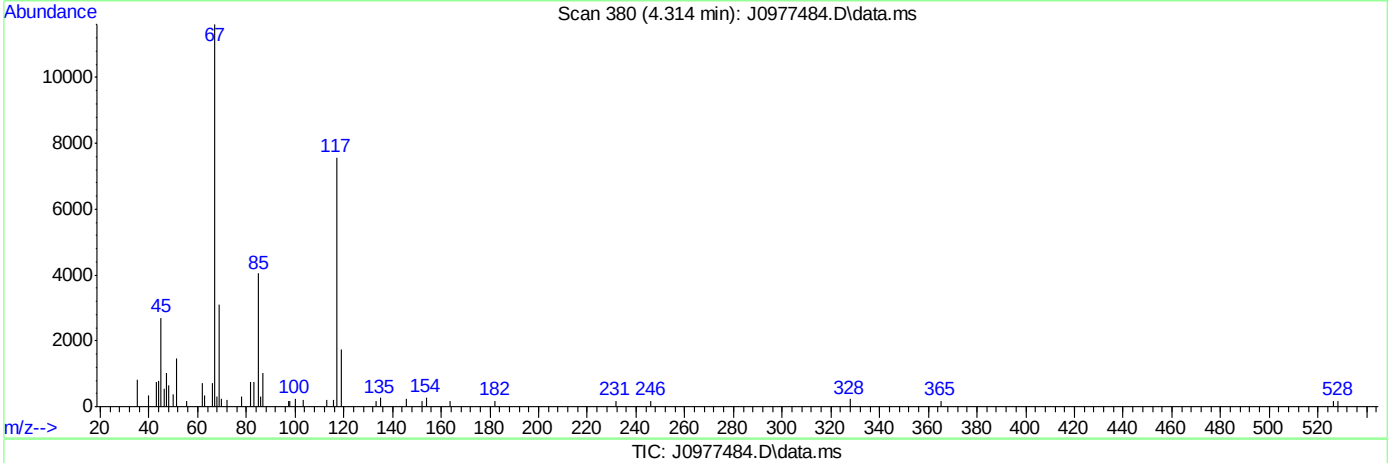
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977484.D
Acq On : 23 Jun 2016 6:02 pm
Operator : darshnap
Sample : fa34926-1msd ma Inst : MSVOA6
Misc : MS34223,vj5346,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 08:00:14 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





(107) Ethanol

4.314min (+0.035) 533.47ug/L m

response 11071

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	20.16
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/27/16 10:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977515.D
Acq On : 24 Jun 2016 6:11 pm
Operator : darshnap
Sample : fa34926-9ms ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 10:16:25 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	303003	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	223501	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	131763	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	26557	250.00	ug/L	#-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	85622	53.69	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.38%			
46) 1,2-Dichloroethane-d4	7.463	65	147234	63.27	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 126.54%#			
57) Toluene-d8	9.285	98	304701	51.58	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.16%			
79) 4-Bromofluorobenzene	12.040	95	126334	49.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.82%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	46743	21.59	ug/L	87
3) Chloromethane	2.880	50	48289	21.93	ug/L	90
4) Vinyl Chloride	3.027	62	51380	23.54	ug/L	92
5) 1,3-Butadiene	3.010	54	3647	2.13	ug/L #	63
6) Bromomethane	3.445	94	44558	24.31	ug/L	95
7) Chloroethane	3.603	64	37183	25.51	ug/L	89
8) Trichlorofluoromethane	3.785	101	110672	30.28	ug/L	99
9) Ethyl Ether	4.108	59	37387	25.95	ug/L #	76
10) 1,2-Dichlorotrifluoroe...	4.338	67	57455	31.07	ug/L	81
11) 1,1-Dichloroethene	4.390	61	78421	28.62	ug/L	90
12) Freon 113	4.437	101	39857	23.89	ug/L	87
13) Carbon Disulfide	4.461	76	118706	23.40	ug/L	80
14) Iodomethane	4.567	142	54340	20.82	ug/L	90
15) Allyl chloride	4.908	41	55926	24.00	ug/L	97
16) Methylene Chloride	5.031	49	64450	26.49	ug/L	89
17) Acetone	5.072	58	12400	123.03	ug/L #	57
18) Methyl acetate	5.178	74	22965	124.75	ug/L	96
19) trans-1,2-Dichloroethene	5.219	61	67301	29.74	ug/L	93
20) Hexane	5.284	56	44145	29.16	ug/L #	85
21) Methyl Tert Butyl Ether	5.307	73	133828	27.34	ug/L	84
22) Acetonitrile	5.577	40	17351	229.32	ug/L #	50
23) Di-isopropyl ether	5.701	45	137409	23.40	ug/L	94
24) Chloroprene	5.859	53	76236	24.02	ug/L	94
25) 1,1-Dichloroethane	5.883	63	89841	29.47	ug/L	95
26) Acrylonitrile	5.912	53	51827	117.28	ug/L	95
27) ETBE	6.100	59	138802	22.59	ug/L	98
28) Vinyl acetate	6.094	43	353890	109.52	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	42930	23.06	ug/L	97
30) 2,2-Dichloropropane	6.594	77	63397	24.60	ug/L	88
31) Bromochloromethane	6.676	128	18737	22.98	ug/L #	73
32) Cyclohexane	6.723	56	72780	25.43	ug/L	89
33) Chloroform	6.729	83	84767	24.48	ug/L	94
34) Ethyl acetate	6.794	43	150319	127.91	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977515.D
Acq On : 24 Jun 2016 6:11 pm
Operator : darshnap
Sample : fa34926-9ms ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 10:16:25 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.911	42	9418	27.86 ug/L	83
37) Carbon Tetrachloride	6.917	117	71753	28.84 ug/L	95
38) 1,1,1-Trichloroethane	6.982	97	81795	26.75 ug/L	93
39) 2-Butanone	7.005	43	68481	147.83 ug/L	97
40) 1,1-Dichloropropene	7.093	75	59862	26.88 ug/L	90
41) tert-Butyl Formate	7.181	59	14145	13.71 ug/L #	66
42) Propionitrile	7.317	54	40903	249.53 ug/L	93
43) Methacrylonitrile	7.346	41	209391	280.92 ug/L	93
44) Benzene	7.340	78	154611	24.88 ug/L	92
45) TAME	7.416	73	101993	20.73 ug/L	99
47) 1,2-Dichloroethane	7.534	62	80956	28.79 ug/L	86
48) Trichloroethene	7.922	95	45102	26.79 ug/L	87
49) Methylcyclohexane	7.945	83	71178	24.25 ug/L	88
50) Dibromomethane	8.351	93	25364	26.99 ug/L	84
51) 1,2-Dichloropropane	8.433	63	38712	23.59 ug/L	87
52) Bromodichloromethane	8.480	83	60401	23.95 ug/L	95
53) Methyl methacrylate	8.580	41	30870	26.62 ug/L	91
55) cis-1,3-Dichloropropene	9.091	75	56348	20.71 ug/L	83
58) Toluene	9.338	91	157048	22.39 ug/L	92
59) 2-Nitropropane	9.543	41	45965	115.82 ug/L	96
60) 4-Methyl-2-pentanone	9.661	43	166210	150.06 ug/L	94
61) trans-1,3-Dichloropropene	9.720	75	56599	23.96 ug/L	88
62) Tetrachloroethene	9.743	166	40044	23.34 ug/L	96
63) Ethyl methacrylate	9.825	69	36144	20.65 ug/L	87
64) 1,1,2-Trichloroethane	9.884	83	28243	24.51 ug/L	89
65) Dibromochloromethane	10.090	129	31871	19.03 ug/L	95
66) 1,3-Dichloropropane	10.166	76	53527	21.94 ug/L	80
67) 1,2-Dibromoethane	10.348	107	30851	22.46 ug/L	93
68) 2-hexanone	10.478	43	118548	157.46 ug/L	99
69) 1-Chlorohexane	10.777	91	50968	22.88 ug/L #	75
70) Ethylbenzene	10.848	91	211249	25.33 ug/L	95
71) Chlorobenzene	10.848	112	104437	23.39 ug/L	80
72) 1,1,1,2-Tetrachloroethane	10.895	131	37646	24.49 ug/L	95
73) m,p-Xylene	10.983	91	323069	50.11 ug/L	98
74) o-Xylene	11.424	91	161283	23.70 ug/L	97
75) Styrene	11.471	104	109680	21.79 ug/L	94
76) Bromoform	11.535	173	16593	17.04 ug/L	87
77) Isopropylbenzene	11.729	105	213011	27.21 ug/L	93
80) cis-1,4-Dichloro-2-butene	12.070	53	13382	21.10 ug/L #	83
81) n-Propylbenzene	12.146	91	252760	24.06 ug/L	94
82) Bromobenzene	12.170	156	42641	20.31 ug/L	87
83) 1,1,2,2-Tetrachloroethane	12.205	83	39862	22.27 ug/L	86
84) 1,3,5-Trimethylbenzene	12.328	105	172803	22.13 ug/L	99
85) 2-Chlorotoluene	12.334	91	175588	23.86 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.387	53	11634	18.61 ug/L #	53
87) 1,2,3-Trichloropropane	12.364	110	11736	22.23 ug/L #	64
88) Cyclohexanone	12.434	55	6023	136.11 ug/L	86
89) 4-Chlorotoluene	12.505	91	155294	21.98 ug/L	97
90) a-Methyl Styrene	12.740	118	2387	0.64 ug/L #	1
91) tert-Butylbenzene	12.675	91	110925	24.41 ug/L	98

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977515.D
Acq On : 24 Jun 2016 6:11 pm
Operator : darshnap
Sample : fa34926-9ms ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 10:16:25 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

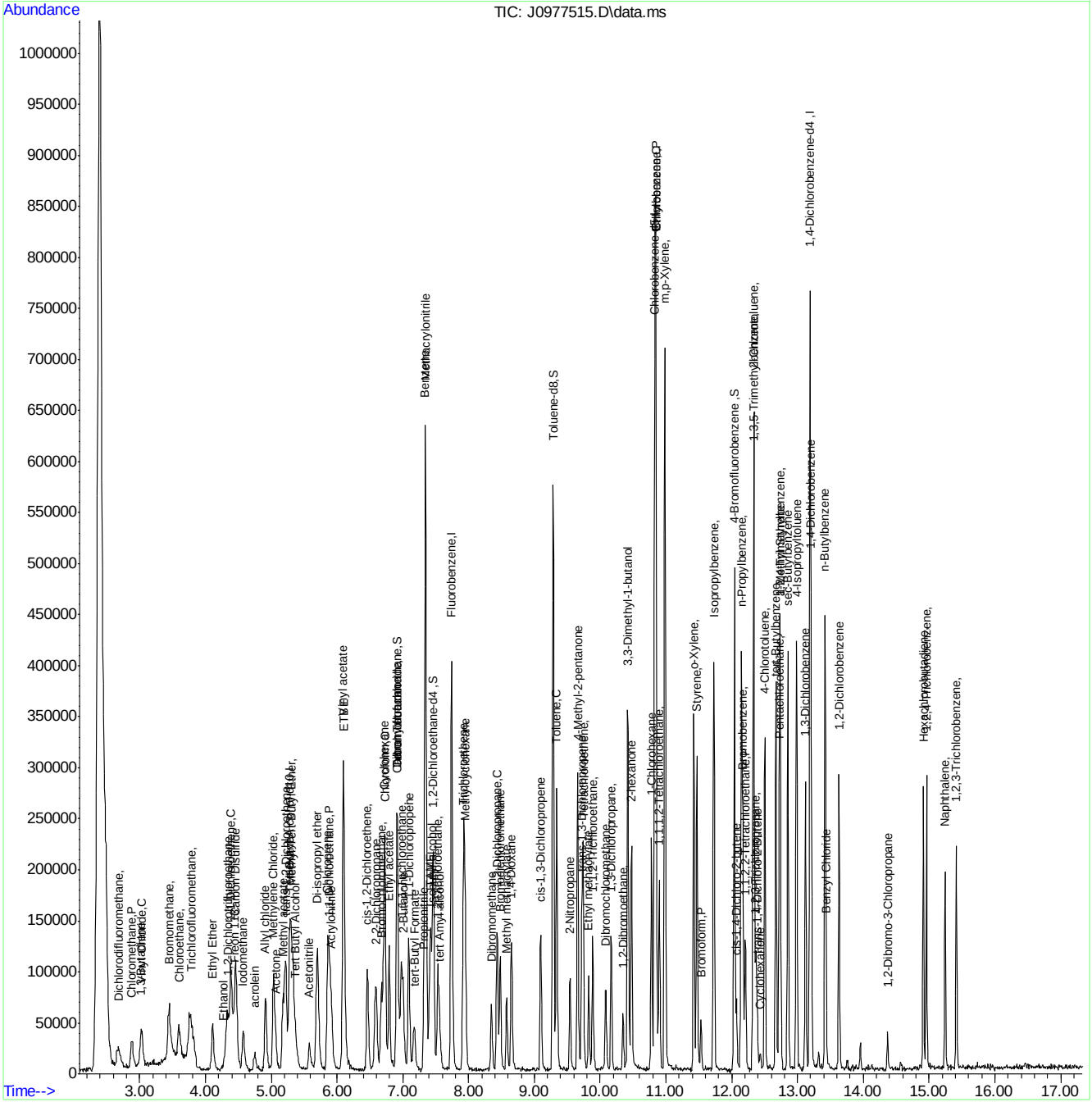
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.740	105	173923	22.05	ug/L	98
93) Pentachloroethane	12.722	167	26948	22.66	ug/L	93
94) sec-Butylbenzene	12.851	105	228530	24.47	ug/L	98
95) 4-Isopropyltoluene	12.986	119	181899	23.00	ug/L	99
96) 1,3-Dichlorobenzene	13.122	146	83108	21.80	ug/L	88
97) 1,4-Dichlorobenzene	13.204	146	83863	21.58	ug/L	95
98) n-Butylbenzene	13.415	92	104569	23.14	ug/L	95
99) Benzyl Chloride	13.439	126	10346	15.74	ug/L #	64
100) 1,2-Dichlorobenzene	13.633	146	77346	21.84	ug/L	89
101) 1,2-Dibromo-3-Chloropr...	14.367	75	7413	23.75	ug/L #	66
102) Hexachlorobutadiene	14.914	225	31414	20.50	ug/L	87
103) 1,2,4-Trichlorobenzene	14.961	180	52891	18.62	ug/L	93
104) Naphthalene	15.243	128	100760	25.06	ug/L	99
105) 1,2,3-Trichlorobenzene	15.413	180	43442	20.88	ug/L	94
107) Ethanol	4.267	45	6442m	464.73	ug/L	
108) acrolein	4.755	56	18402	63.89	ug/L	84
109) Tert Butyl Alcohol	5.366	59	52576	346.74	ug/L	95
110) tert Amyl alcohol	7.557	59	22429	189.31	ug/L	82
111) Isobutyl alcohol	7.440	42	22340	485.89	ug/L #	76
112) 1,4-Dioxane	8.650	88	73450	6100.16	ug/L	63
113) 3,3-Dimethyl-1-butanol	10.419	57	134151	1256.10	ug/L	95

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977515.D
Acq On : 24 Jun 2016 6:11 pm
Operator : darshnap
Sample : fa34926-9ms ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 10:16:25 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

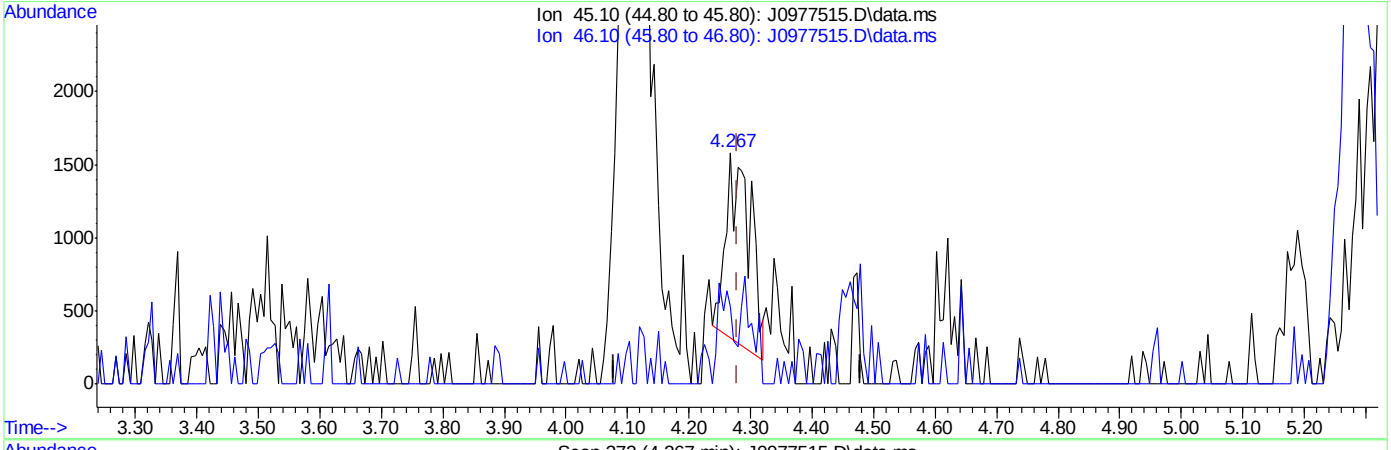
Sample Number:	FA34926-9MS	**Method:**	SW846 8260C
Lab FileID:	J0977515.D	**Analyst approved:**	06/25/16 11:35 Darshna Patel
Injection Time:	06/24/16 18:11	**Supervisor approved:**	06/27/16 10:54 Juan Garcia

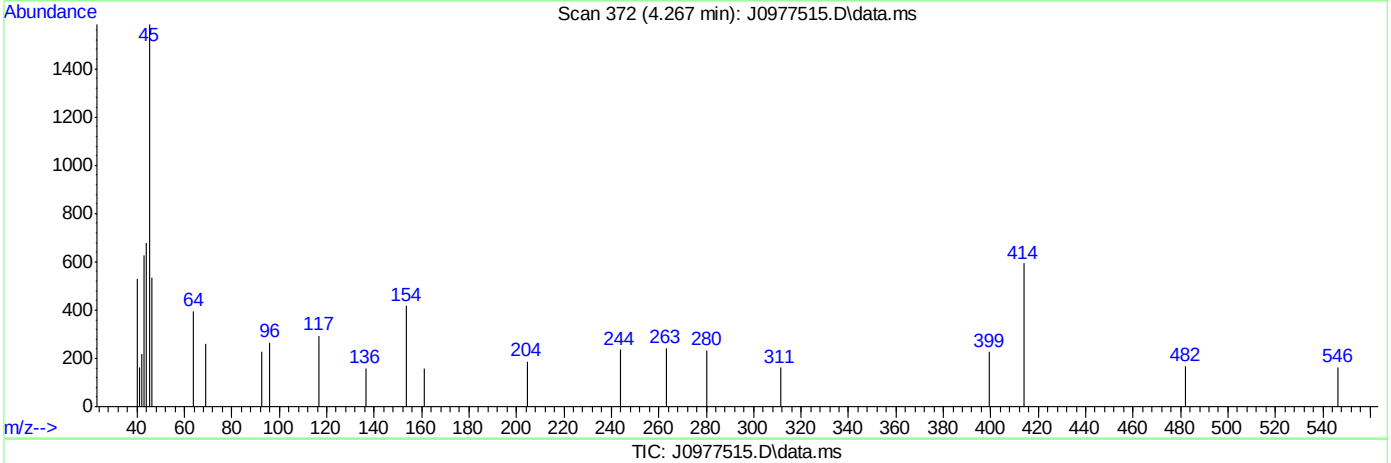
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977515.D
Acq On : 24 Jun 2016 6:11 pm
Operator : darshnap
Sample : fa34926-9ms ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 09:55:42 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977515.D\data.ms

(107) Ethanol

4.267min (-0.012) 252.71ug/L

response 3503

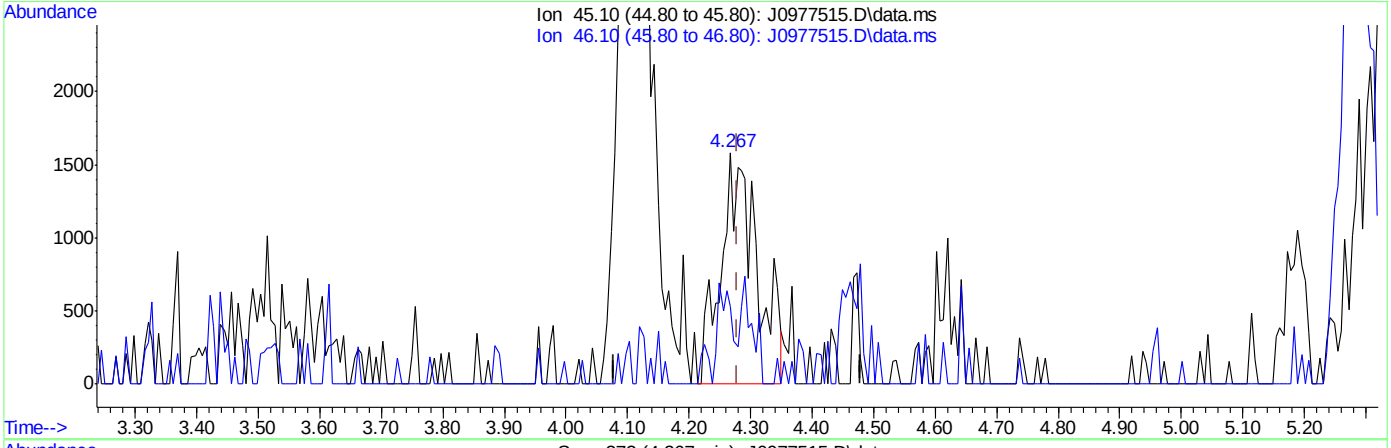
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	45.14#
0.00	0.00	0.00
0.00	0.00	0.00

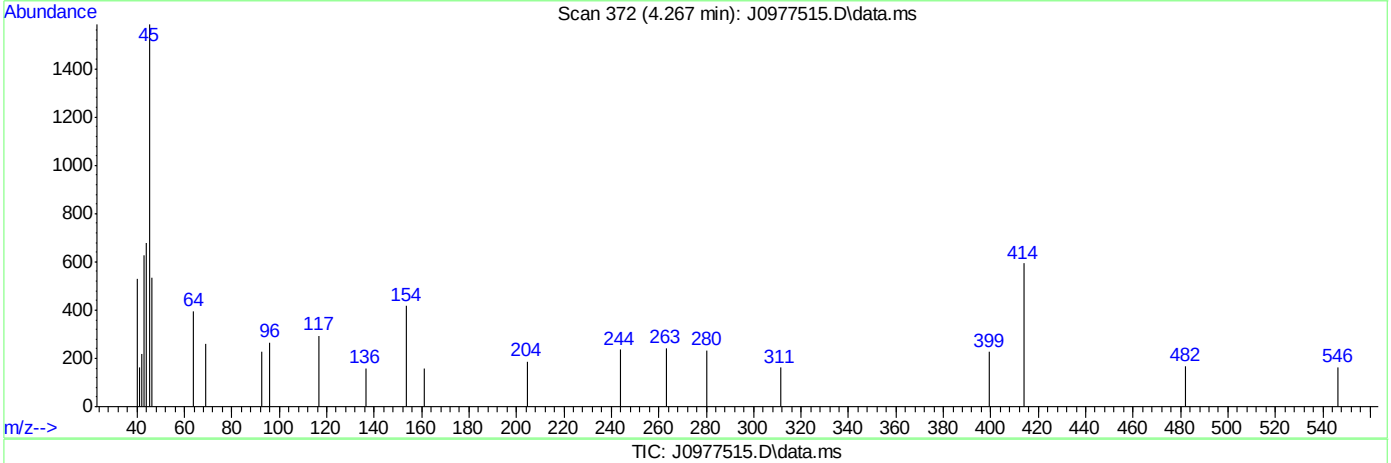
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977515.D
Acq On : 24 Jun 2016 6:11 pm
Operator : darshnap
Sample : fa34926-9ms ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 09:55:42 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977515.D\data.ms

(107) Ethanol

4.267min (-0.012) 464.73ug/L m

response 6442

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	33.71
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/27/16 10:54

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977516.D
Acq On : 24 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34926-9msd ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 10:18:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	348541	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	251520	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	142294	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.295	65	32290	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	95347	51.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.96%			
46) 1,2-Dichloroethane-d4	7.464	65	166681	62.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 124.52%			
57) Toluene-d8	9.285	98	339025	50.99	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.98%			
79) 4-Bromofluorobenzene	12.041	95	133907	48.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.687	85	60890	24.56	ug/L	79
3) Chloromethane	2.898	50	66663	26.45	ug/L	89
4) Vinyl Chloride	3.033	62	68965	27.65	ug/L	95
5) 1,3-Butadiene	3.033	54	10890	5.57	ug/L #	80
6) Bromomethane	3.468	94	62122	29.81	ug/L	89
7) Chloroethane	3.609	64	50848	30.98	ug/L	99
8) Trichlorofluoromethane	3.768	101	140619	33.59	ug/L	94
9) Ethyl Ether	4.120	59	45616	27.52	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.349	67	64069	30.12	ug/L	93
11) 1,1-Dichloroethene	4.391	61	86239	27.31	ug/L	92
12) Freon 113	4.444	101	46303	24.14	ug/L	93
13) Carbon Disulfide	4.467	76	114128	19.56	ug/L	90
14) Iodomethane	4.585	142	63038	21.00	ug/L	93
15) Allyl chloride	4.919	41	58730	21.91	ug/L	94
16) Methylene Chloride	5.037	49	74121	26.48	ug/L	94
17) Acetone	5.055	58	15956	137.63	ug/L #	76
18) Methyl acetate	5.190	74	27440	129.58	ug/L #	80
19) trans-1,2-Dichloroethene	5.225	61	83267	31.98	ug/L	87
20) Hexane	5.295	56	44909	25.78	ug/L #	69
21) Methyl Tert Butyl Ether	5.325	73	161024	28.60	ug/L	91
22) Acetonitrile	5.577	40	23368	268.85	ug/L #	80
23) Di-isopropyl ether	5.713	45	170830	25.29	ug/L	97
24) Chloroprene	5.865	53	91330	25.04	ug/L	91
25) 1,1-Dichloroethane	5.895	63	99890	28.49	ug/L	92
26) Acrylonitrile	5.918	53	58127	114.33	ug/L	98
27) ETBE	6.100	59	171644	24.29	ug/L	91
28) Vinyl acetate	6.095	43	404590	108.85	ug/L	97
29) cis-1,2-Dichloroethene	6.465	96	48794	22.79	ug/L	87
30) 2,2-Dichloropropane	6.594	77	70854	23.91	ug/L	91
31) Bromochloromethane	6.682	128	22045	23.50	ug/L #	81
32) Cyclohexane	6.717	56	89034	27.05	ug/L	94
33) Chloroform	6.729	83	98764	24.81	ug/L	85
34) Ethyl acetate	6.800	43	180778	133.73	ug/L	94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977516.D
Acq On : 24 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34926-9msd ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 10:18:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.905	42	11775	30.28	ug/L		89
37) Carbon Tetrachloride	6.929	117	73130m	25.55	ug/L		
38) 1,1,1-Trichloroethane	6.982	97	87354	24.83	ug/L		97
39) 2-Butanone	7.011	43	84087	157.81	ug/L		86
40) 1,1-Dichloropropene	7.093	75	66211	25.84	ug/L		82
41) tert-Butyl Formate	7.176	59	14051	11.84	ug/L	#	83
42) Propionitrile	7.323	54	54623	289.70	ug/L		81
43) Methacrylonitrile	7.346	41	257039	299.79	ug/L		97
44) Benzene	7.340	78	180060	25.20	ug/L		97
45) TAME	7.422	73	122427	21.63	ug/L		100
47) 1,2-Dichloroethane	7.534	62	96062	29.73	ug/L		94
48) Trichloroethene	7.922	95	52960	27.35	ug/L		91
49) Methylcyclohexane	7.945	83	77845	23.06	ug/L		98
50) Dibromomethane	8.345	93	29082	26.90	ug/L		93
51) 1,2-Dichloropropane	8.433	63	46425	24.60	ug/L		95
52) Bromodichloromethane	8.486	83	70742	24.39	ug/L		98
53) Methyl methacrylate	8.580	41	38674	29.00	ug/L		94
55) cis-1,3-Dichloropropene	9.097	75	63507	20.29	ug/L		84
58) Toluene	9.338	91	189082	23.99	ug/L		99
59) 2-Nitropropane	9.544	41	59589	133.42	ug/L		90
60) 4-Methyl-2-pentanone	9.661	43	205070	164.52	ug/L		98
61) trans-1,3-Dichloropropene	9.720	75	67083	25.23	ug/L		97
62) Tetrachloroethene	9.743	166	43727	22.65	ug/L		90
63) Ethyl methacrylate	9.826	69	44439	22.56	ug/L		93
64) 1,1,2-Trichloroethane	9.890	83	32703	25.24	ug/L		94
65) Dibromochloromethane	10.090	129	38128	20.23	ug/L		86
66) 1,3-Dichloropropane	10.166	76	66508	24.24	ug/L		88
67) 1,2-Dibromoethane	10.343	107	38207	24.74	ug/L		92
68) 2-hexanone	10.478	43	135345	159.74	ug/L		97
69) 1-Chlorohexane	10.783	91	62518	24.93	ug/L		94
70) Ethylbenzene	10.848	91	246481	26.26	ug/L		99
71) Chlorobenzene	10.848	112	119604	23.81	ug/L		77
72) 1,1,1,2-Tetrachloroethane	10.901	131	44878	25.94	ug/L		97
73) m,p-Xylene	10.983	91	374041	51.56	ug/L		98
74) o-Xylene	11.424	91	186274	24.34	ug/L		97
75) Styrene	11.471	104	128484	22.68	ug/L		97
76) Bromoform	11.535	173	20151	18.39	ug/L		93
77) Isopropylbenzene	11.729	105	243076	27.59	ug/L		100
80) cis-1,4-Dichloro-2-butene	12.076	53	12555	18.41	ug/L	#	81
81) n-Propylbenzene	12.146	91	287143	25.31	ug/L		100
82) Bromobenzene	12.170	156	49285	21.76	ug/L		92
83) 1,1,2,2-Tetrachloroethane	12.205	83	48293	24.97	ug/L		81
84) 1,3,5-Trimethylbenzene	12.329	105	199802	23.70	ug/L		99
85) 2-Chlorotoluene	12.340	91	195617	24.61	ug/L		99
86) trans-1,4-Dichloro-2-B...	12.387	53	12200	18.06	ug/L	#	62
87) 1,2,3-Trichloropropane	12.370	110	13833	24.26	ug/L		86
88) Cyclohexanone	12.434	55	6877	143.82	ug/L	#	67
89) 4-Chlorotoluene	12.505	91	176977	23.24	ug/L		98
90) a-Methyl Styrene	12.675	118	2807	0.70	ug/L	#	1
91) tert-Butylbenzene	12.669	91	127471	25.97	ug/L		95

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977516.D
Acq On : 24 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34926-9msd ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 10:18:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.740	105	205713	24.15	ug/L		99
93)	Pentachloroethane	12.722	167	31091	24.21	ug/L		85
94)	sec-Butylbenzene	12.851	105	257695	25.55	ug/L		97
95)	4-Isopropyltoluene	12.987	119	212705	24.90	ug/L		97
96)	1,3-Dichlorobenzene	13.122	146	99720	24.27	ug/L		93
97)	1,4-Dichlorobenzene	13.210	146	98068	23.42	ug/L		94
98)	n-Butylbenzene	13.421	92	121408	24.88	ug/L		96
99)	Benzyl Chloride	13.433	126	12193	17.18	ug/L	#	74
100)	1,2-Dichlorobenzene	13.627	146	91265	23.85	ug/L		89
101)	1,2-Dibromo-3-Chloropr...	14.367	75	8370	24.83	ug/L		79
102)	Hexachlorobutadiene	14.914	225	39349	23.78	ug/L		86
103)	1,2,4-Trichlorobenzene	14.961	180	62672	20.43	ug/L		95
104)	Naphthalene	15.243	128	119623	27.34	ug/L		93
105)	1,2,3-Trichlorobenzene	15.413	180	56937	25.15	ug/L		96
107)	Ethanol	4.273	45	8511m	504.98	ug/L		
108)	acrolein	4.755	56	22410	63.99	ug/L		86
109)	Tert Butyl Alcohol	5.372	59	66692	361.84	ug/L		95
110)	tert Amyl alcohol	7.569	59	27884	193.57	ug/L		81
111)	Isobutyl alcohol	7.446	42	23784	425.01	ug/L	#	83
112)	1,4-Dioxane	8.656	88	85057	5765.79	ug/L	#	52
113)	3,3-Dimethyl-1-butanol	10.419	57	161152	1241.63	ug/L		94

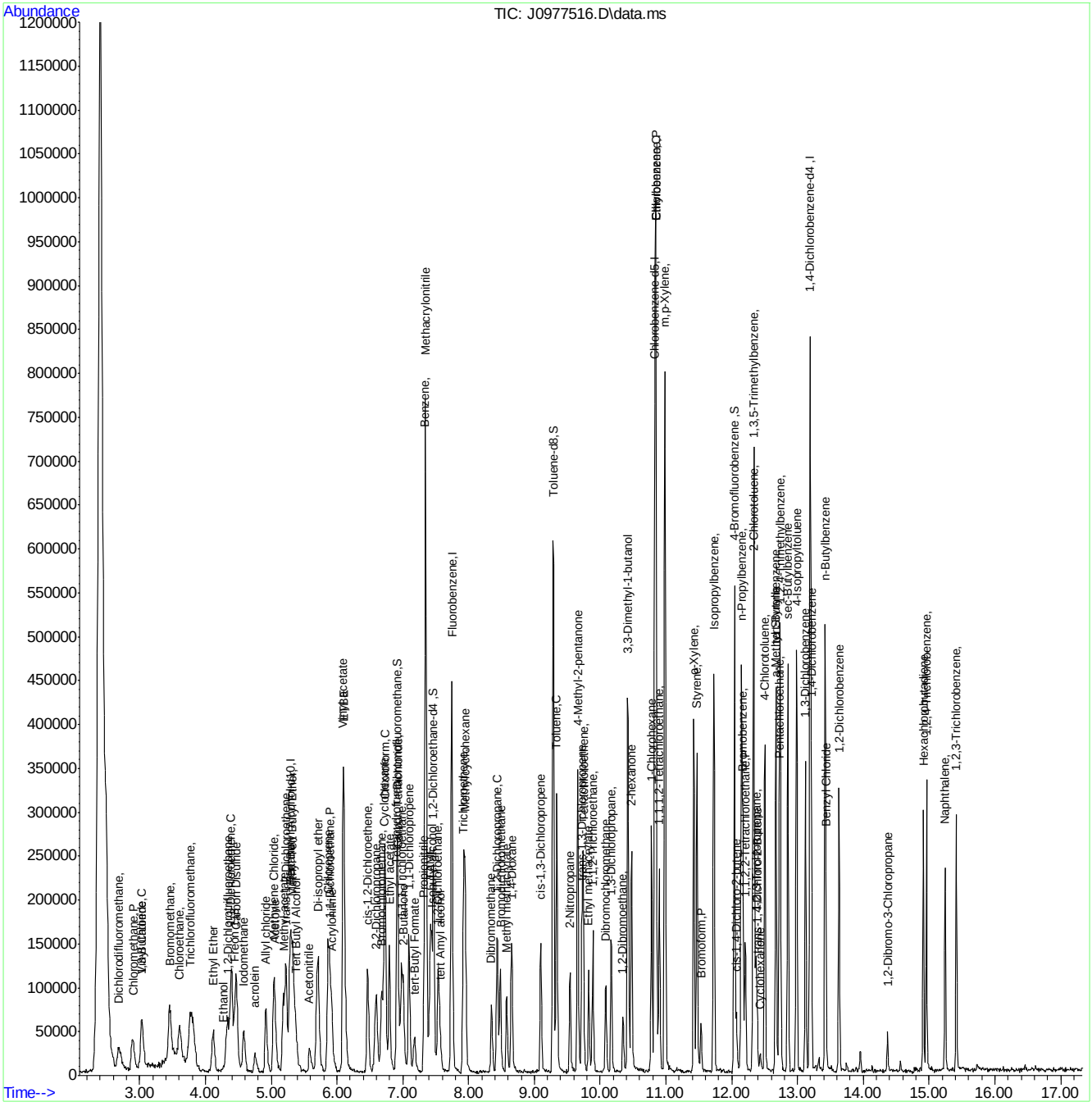
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977516.D
Acq On : 24 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34926-9msd ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 10:18:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



Manual Integration Approval Summary

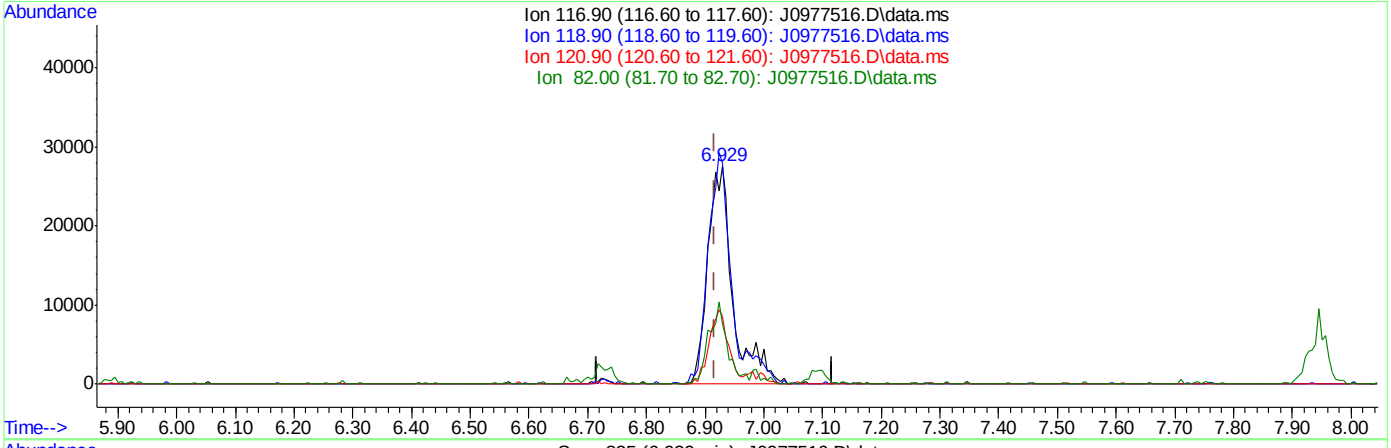
Sample Number:	FA34926-9MSD	**Method:**	SW846 8260C
Lab FileID:	J0977516.D	**Analyst approved:**	06/25/16 11:35 Darshna Patel
Injection Time:	06/24/16 18:34	**Supervisor approved:**	06/27/16 10:54 Juan Garcia

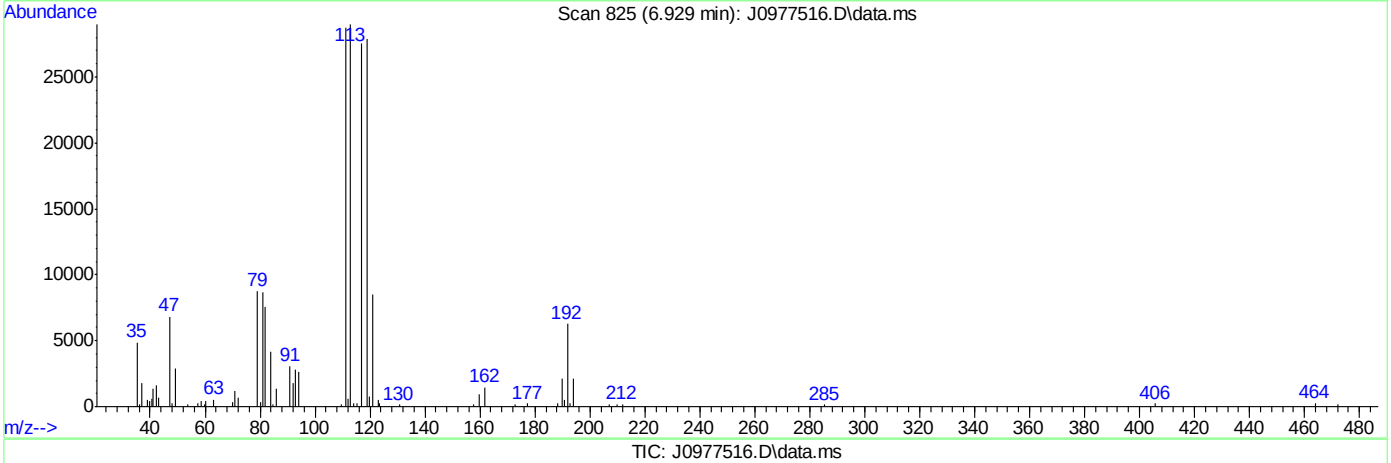
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977516.D
Acq On : 24 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34926-9msd ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 09:55:45 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977516.D\data.ms

(37) Carbon Tetrachloride ( )

6.929min (+0.012) 28.22ug/L

response 80777

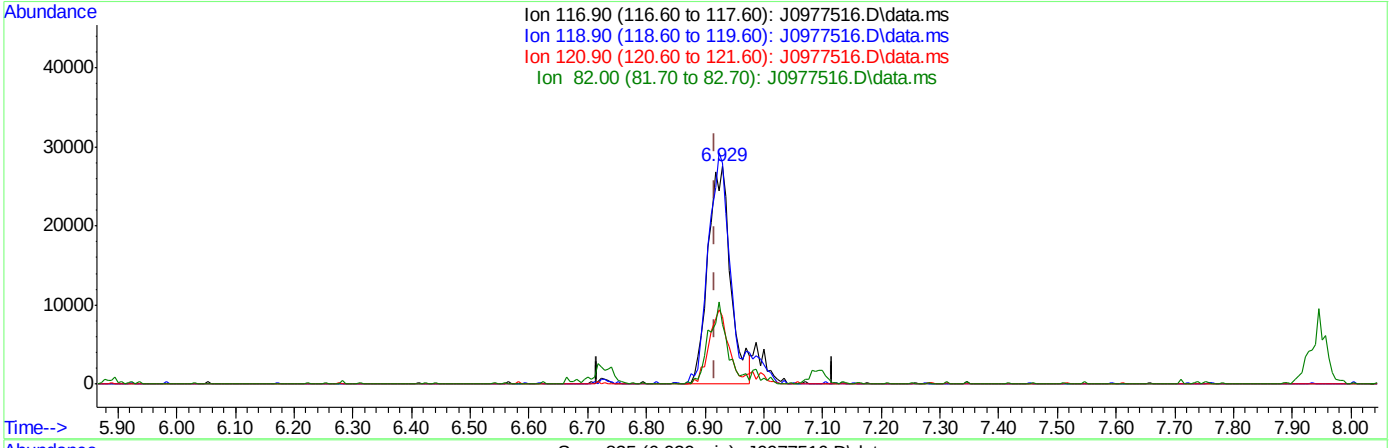
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	101.22
120.90	27.00	30.97
82.00	24.80	27.38

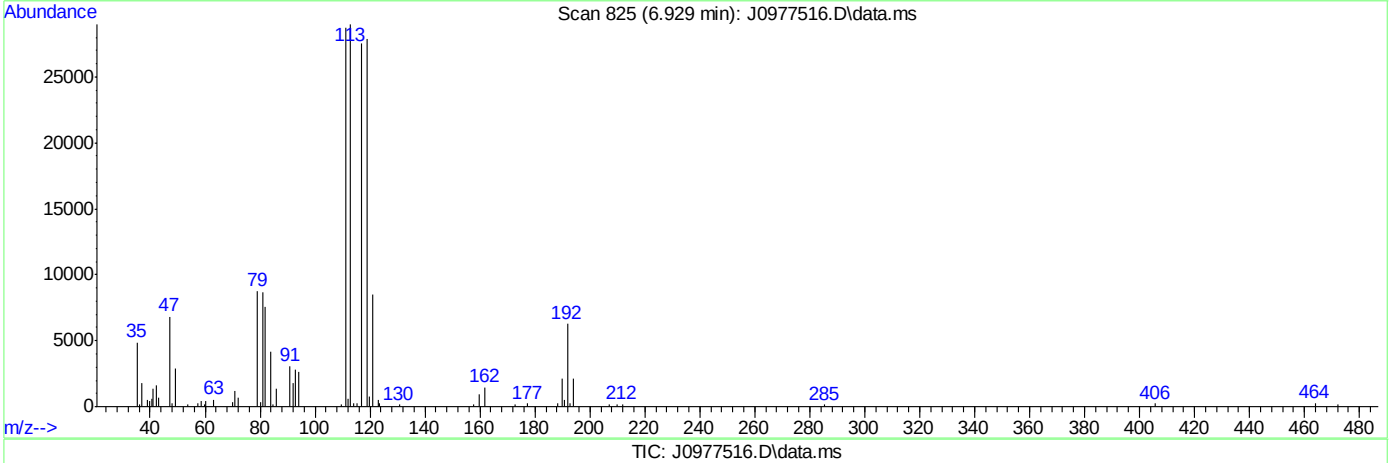
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977516.D
Acq On : 24 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34926-9msd ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 09:55:45 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.929min (+0.012) 25.55ug/L m

response 73130

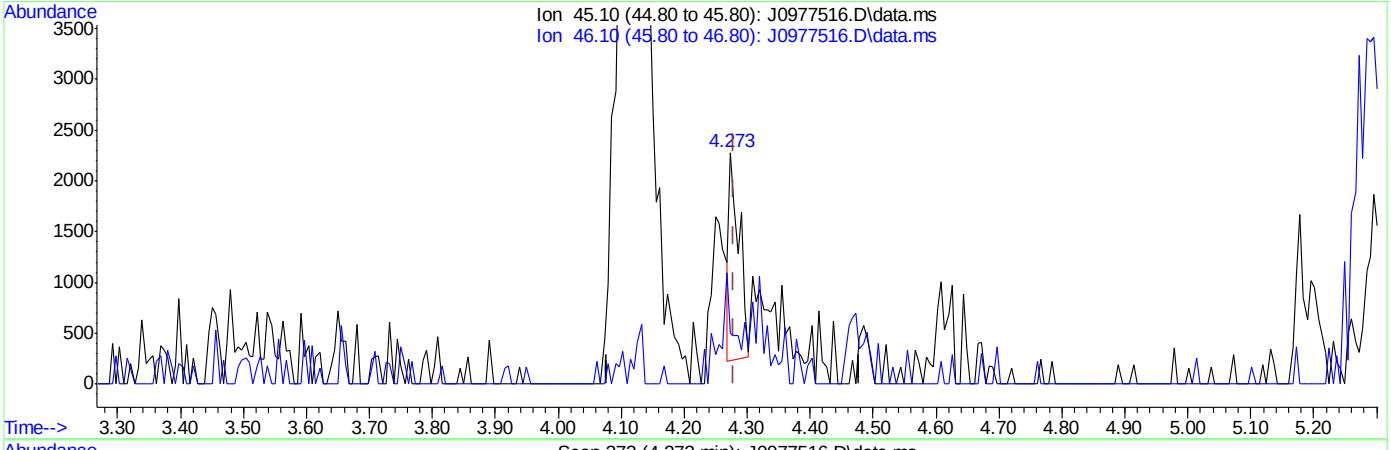
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	101.22
120.90	27.00	30.97
82.00	24.80	27.38

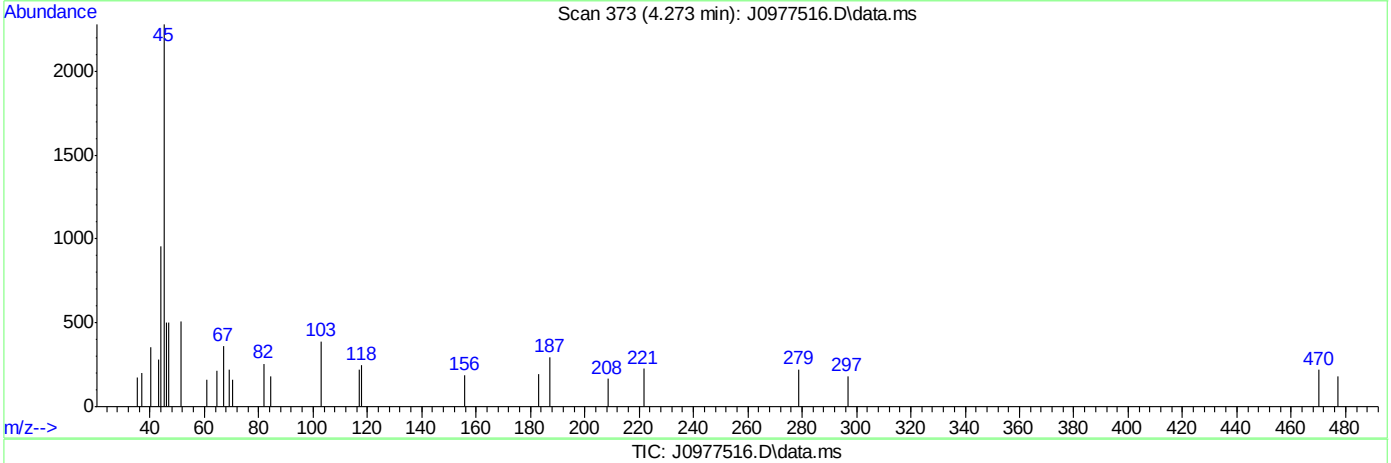
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977516.D
Acq On : 24 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34926-9msd ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 09:55:45 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977516.D\data.ms

(107) Ethanol

4.273min (-0.006) 138.48ug/L

response 2334

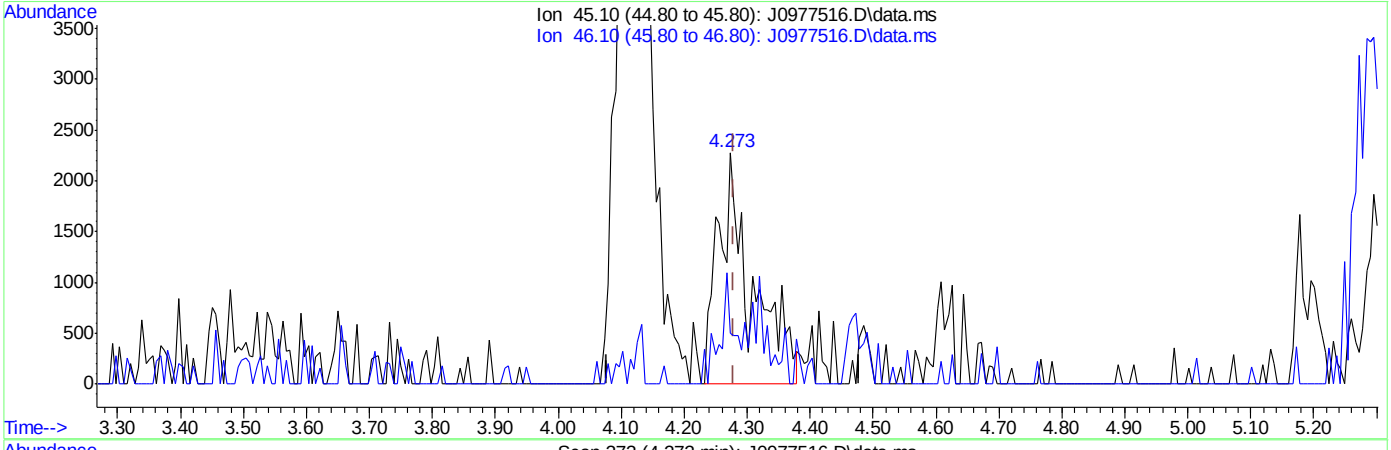
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	7.72
0.00	0.00	0.00
0.00	0.00	0.00

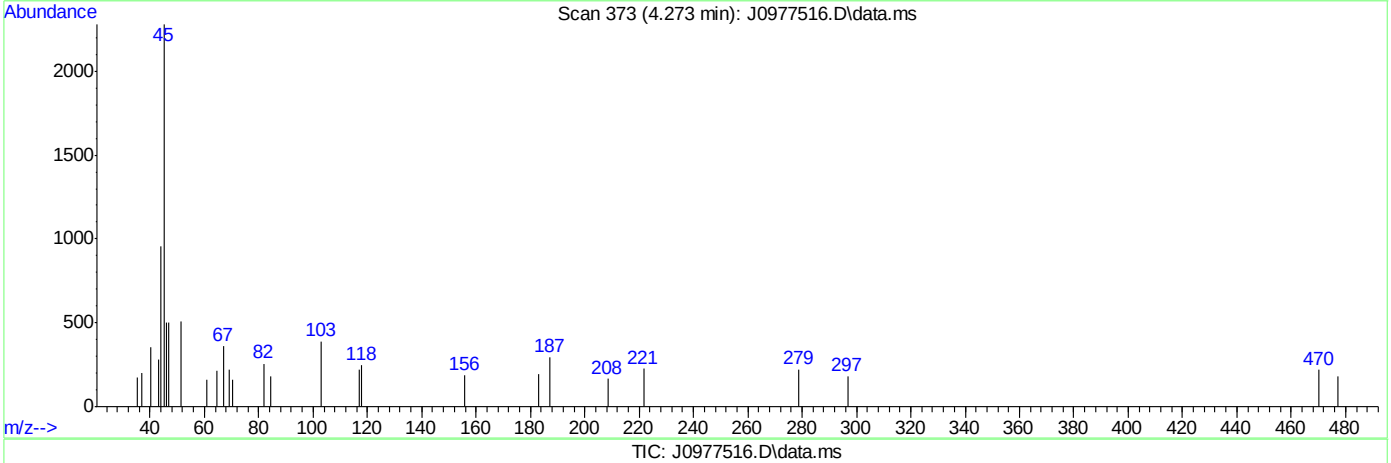
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977516.D
Acq On : 24 Jun 2016 6:34 pm
Operator : darshnap
Sample : fa34926-9msd ma Inst : MSVOA6
Misc : MS34223,vj5348,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 25 09:55:45 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977516.D\data.ms

(107) Ethanol

4.273min (-0.006) 504.98ug/L m

response 8511

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	22.11
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/28/16 13:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977605.D
Acq On : 27 Jun 2016 5:50 pm
Operator : darshnap
Sample : fa34821-6ms ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:17:45 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	526872	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	367519	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	184438	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	36135	250.00	ug/L	#-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	129339	46.64	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 93.28%			
46) 1,2-Dichloroethane-d4	7.464	65	172562	42.64	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 85.28%			
57) Toluene-d8	9.285	98	483759	49.80	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.60%			
79) 4-Bromofluorobenzene	12.041	95	182514	51.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.687	85	68153	18.00	ug/L	90
3) Chloromethane	2.886	50	81516	21.27	ug/L	97
4) Vinyl Chloride	3.033	62	95243	25.16	ug/L	99
5) 1,3-Butadiene	3.016	54	19654	6.67	ug/L #	77
6) Bromomethane	3.445	94	83828	26.42	ug/L	97
7) Chloroethane	3.597	64	66752	26.43	ug/L	90
8) Trichlorofluoromethane	3.803	101	169705	26.58	ug/L	97
9) Ethyl Ether	4.114	59	49227	19.65	ug/L	82
10) 1,2-Dichlorotrifluoroe...	4.332	67	84948	26.42	ug/L	87
11) 1,1-Dichloroethene	4.391	61	104274	21.67	ug/L	96
12) Freon 113	4.444	101	64442	22.17	ug/L	91
13) Carbon Disulfide	4.467	76	200157	22.69	ug/L	94
14) Iodomethane	4.579	142	89980	19.83	ug/L	93
15) Allyl chloride	4.914	41	68016	16.78	ug/L	92
16) Methylene Chloride	5.043	49	98495	23.28	ug/L	92
17) Acetone	5.066	58	19914	113.63	ug/L #	61
18) Methyl acetate	5.184	74	41870	130.80	ug/L #	72
19) trans-1,2-Dichloroethene	5.219	61	98321	24.98	ug/L	80
20) Hexane	5.284	56	58146	22.08	ug/L #	81
21) Methyl Tert Butyl Ether	5.325	73	157773	18.53	ug/L	89
22) Acetonitrile	5.577	40	23668	179.59	ug/L #	78
23) Di-isopropyl ether	5.707	45	200443	19.63	ug/L	94
24) Chloroprene	5.860	53	107081	19.30	ug/L	88
25) 1,1-Dichloroethane	5.889	63	127868	24.13	ug/L	89
26) Acrylonitrile	5.918	53	90628	117.95	ug/L	95
27) ETBE	6.100	59	214556	20.09	ug/L	98
28) Vinyl acetate	6.095	43	502283	89.40	ug/L	100
29) cis-1,2-Dichloroethene	6.465	96	72349	22.35	ug/L #	83
30) 2,2-Dichloropropane	6.594	77	88678	19.79	ug/L	97
31) Bromochloromethane	6.682	128	28997	20.45	ug/L	90
32) Cyclohexane	6.717	56	124978	25.12	ug/L	90
33) Chloroform	6.723	83	127643	21.15	ug/L	94
34) Ethyl acetate	6.788	43	193056	94.48	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977605.D
Acq On : 27 Jun 2016 5:50 pm
Operator : darshnap
Sample : fa34821-6ms ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:17:45 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	12406	21.10 ug/L #	75
37) Carbon Tetrachloride	6.917	117	90571m	20.93 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	103815	19.52 ug/L	96
39) 2-Butanone	7.005	43	86772	107.73 ug/L	82
40) 1,1-Dichloropropene	7.093	75	86952	22.45 ug/L	87
41) tert-Butyl Formate	7.176	59	286363	157.83 ug/L #	78
42) Propionitrile	7.323	54	67377	236.39 ug/L	80
43) Methacrylonitrile	7.346	41	265105	204.54 ug/L	95
44) Benzene	7.346	78	268662	24.87 ug/L	93
45) TAME	7.422	73	156054	18.24 ug/L	93
47) 1,2-Dichloroethane	7.534	62	95821	19.44 ug/L	95
48) Trichloroethene	7.916	95	72563	24.79 ug/L	85
49) Methylcyclohexane	7.945	83	119633	23.44 ug/L	94
50) Dibromomethane	8.339	93	37810	23.20 ug/L	83
51) 1,2-Dichloropropane	8.433	63	71126	24.93 ug/L	88
52) Bromodichloromethane	8.480	83	86174	19.65 ug/L	86
53) Methyl methacrylate	8.574	41	38318	18.99 ug/L	88
54) 2-Chloroethyl vinyl ether	8.997	63	156523	102.53 ug/L	91
55) cis-1,3-Dichloropropene	9.091	75	93577	19.78 ug/L	87
58) Toluene	9.338	91	270978	23.52 ug/L	97
59) 2-Nitropropane	9.543	41	44120	67.61 ug/L	84
60) 4-Methyl-2-pentanone	9.661	43	216305	118.76 ug/L	97
61) trans-1,3-Dichloropropene	9.720	75	82039	21.12 ug/L	92
62) Tetrachloroethene	9.737	166	66886	23.71 ug/L	97
63) Ethyl methacrylate	9.826	69	61381	21.33 ug/L	80
64) 1,1,2-Trichloroethane	9.890	83	47008	24.82 ug/L	89
65) Dibromochloromethane	10.084	129	54519	19.79 ug/L	96
66) 1,3-Dichloropropane	10.166	76	89098	22.21 ug/L	88
67) 1,2-Dibromoethane	10.348	107	51681	22.89 ug/L	99
68) 2-hexanone	10.478	43	142289	114.93 ug/L	89
69) 1-Chlorohexane	10.783	91	89374	24.40 ug/L	89
70) Ethylbenzene	10.848	91	612392	44.66 ug/L	97
71) Chlorobenzene	10.848	112	182781	24.93 ug/L	87
72) 1,1,1,2-Tetrachloroethane	10.895	131	57796	22.87 ug/L	96
73) m,p-Xylene	10.983	91	1128484	106.45 ug/L	97
74) o-Xylene	11.424	91	284441	25.46 ug/L	97
75) Styrene	11.471	104	186397	22.52 ug/L	98
76) Bromoform	11.535	173	25337	15.82 ug/L	95
77) Isopropylbenzene	11.729	105	314169	24.41 ug/L	91
80) cis-1,4-Dichloro-2-butene	12.082	53	9696	11.10 ug/L #	77
81) n-Propylbenzene	12.146	91	388559	26.42 ug/L	100
82) Bromobenzene	12.170	156	62686	21.35 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.205	83	67064	26.74 ug/L	98
84) 1,3,5-Trimethylbenzene	12.329	105	276327	25.29 ug/L	93
85) 2-Chlorotoluene	12.334	91	262375	25.47 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.387	53	10849	12.31 ug/L #	77
87) 1,2,3-Trichloropropane	12.370	110	19946	26.99 ug/L	86
88) Cyclohexanone	12.434	55	9457	152.48 ug/L	82
89) 4-Chlorotoluene	12.505	91	229505	23.25 ug/L	91
90) a-Methyl Styrene	12.740	118	3007	0.58 ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977605.D
Acq On : 27 Jun 2016 5:50 pm
Operator : darshnap
Sample : fa34821-6ms ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:17:45 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	151991	23.89	ug/L		92
92)	1,2,4-Trimethylbenzene	12.740	105	265556	24.05	ug/L		98
93)	Pentachloroethane	12.716	167	41483	24.92	ug/L		87
94)	sec-Butylbenzene	12.851	105	351266	26.87	ug/L		97
95)	4-Isopropyltoluene	12.987	119	288552	26.06	ug/L		99
96)	1,3-Dichlorobenzene	13.122	146	138089	25.97	ug/L		93
97)	1,4-Dichlorobenzene	13.210	146	137096	25.31	ug/L		91
98)	n-Butylbenzene	13.416	92	163541	25.85	ug/L		89
99)	Benzyl Chloride	13.433	126	16407	17.83	ug/L	#	87
100)	1,2-Dichlorobenzene	13.633	146	125043	25.21	ug/L		95
101)	1,2-Dibromo-3-Chloropr...	14.367	75	8687	19.88	ug/L		97
102)	Hexachlorobutadiene	14.914	225	42001	19.58	ug/L		84
103)	1,2,4-Trichlorobenzene	14.961	180	78593	19.77	ug/L		99
104)	Naphthalene	15.243	128	163461	28.68	ug/L		96
105)	1,2,3-Trichlorobenzene	15.413	180	62261	21.36	ug/L		94
107)	Ethanol	4.273	45	10240m	542.91	ug/L		
108)	acrolein	4.749	56	36554	93.64	ug/L		87
109)	Tert Butyl Alcohol	5.366	59	42727	206.57	ug/L		86
110)	tert Amyl alcohol	7.569	59	30524	189.35	ug/L		80
111)	Isobutyl alcohol	7.440	42	30555	488.43	ug/L	#	89
112)	1,4-Dioxane	8.656	88	9607	519.97	ug/L		72
113)	3,3-Dimethyl-1-butanol	10.419	57	188323	1294.23	ug/L	#	81

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

7.4.5

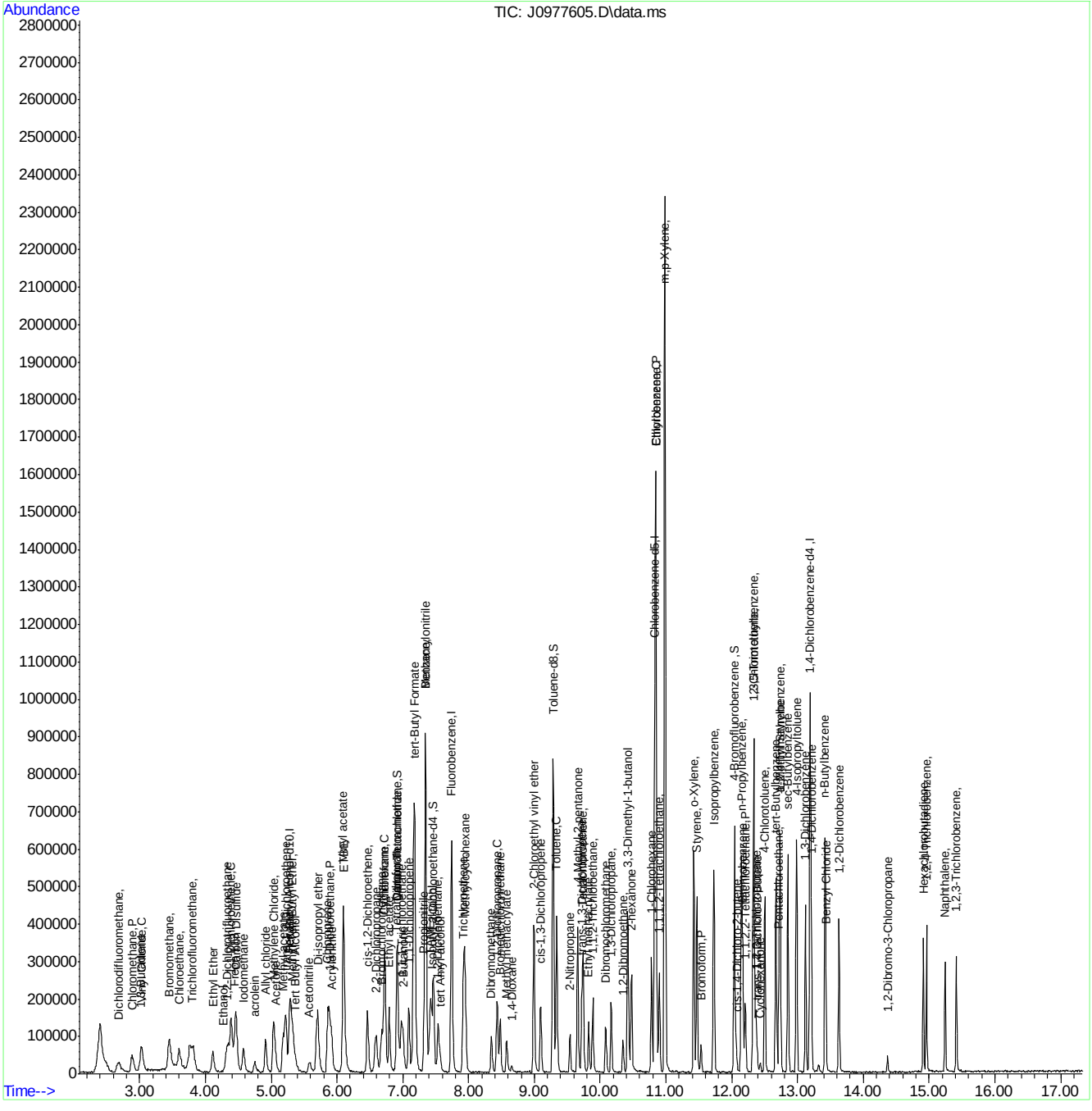
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977605.D
Acq On : 27 Jun 2016 5:50 pm
Operator : darshnap
Sample : fa34821-6ms ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:17:45 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



MSJ062116a.M Tue Jun 28 09:21:58 2016 Page: 4

Manual Integration Approval Summary

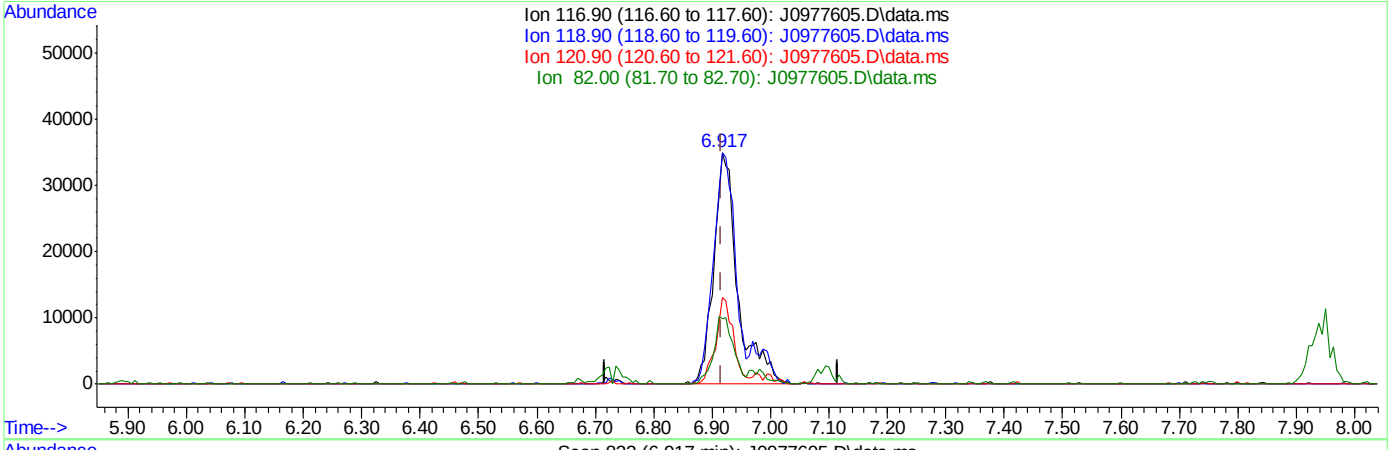
Sample Number:	FA34821-6MS	**Method:**	SW846 8260C
Lab FileID:	J0977605.D	**Analyst approved:**	06/28/16 12:45 Darshna Patel
Injection Time:	06/27/16 17:50	**Supervisor approved:**	06/28/16 13:40 Juan Garcia

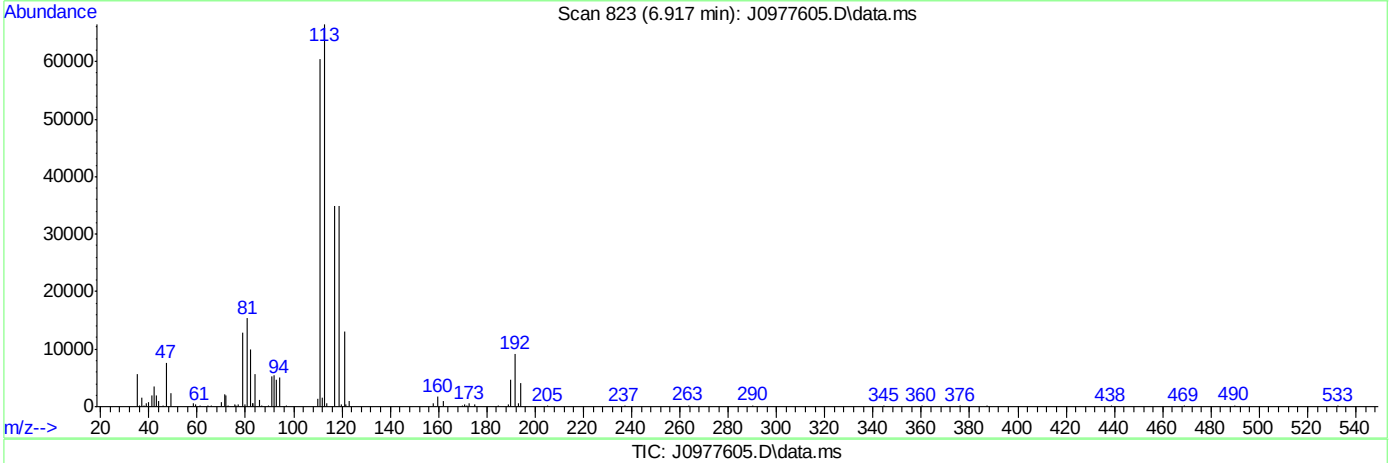
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977605.D
Acq On : 27 Jun 2016 5:50 pm
Operator : darshnap
Sample : fa34821-6ms ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:06:05 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977605.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 23.04ug/L

response 99659

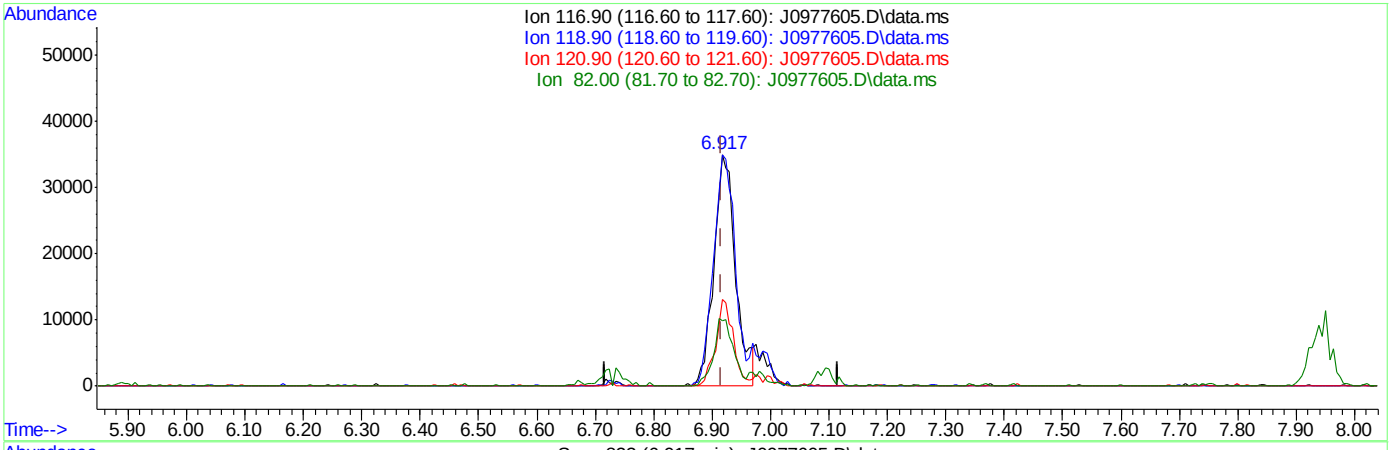
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	99.66
120.90	27.00	37.56
82.00	24.80	28.23

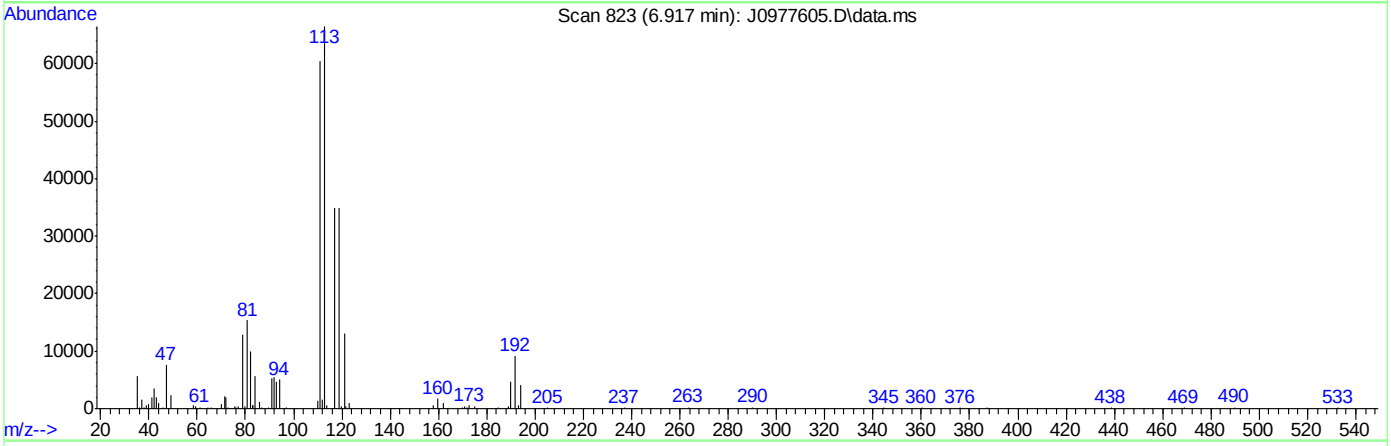
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977605.D
Acq On : 27 Jun 2016 5:50 pm
Operator : darshnap
Sample : fa34821-6ms ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:06:05 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977605.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 20.93ug/L m

response 90571

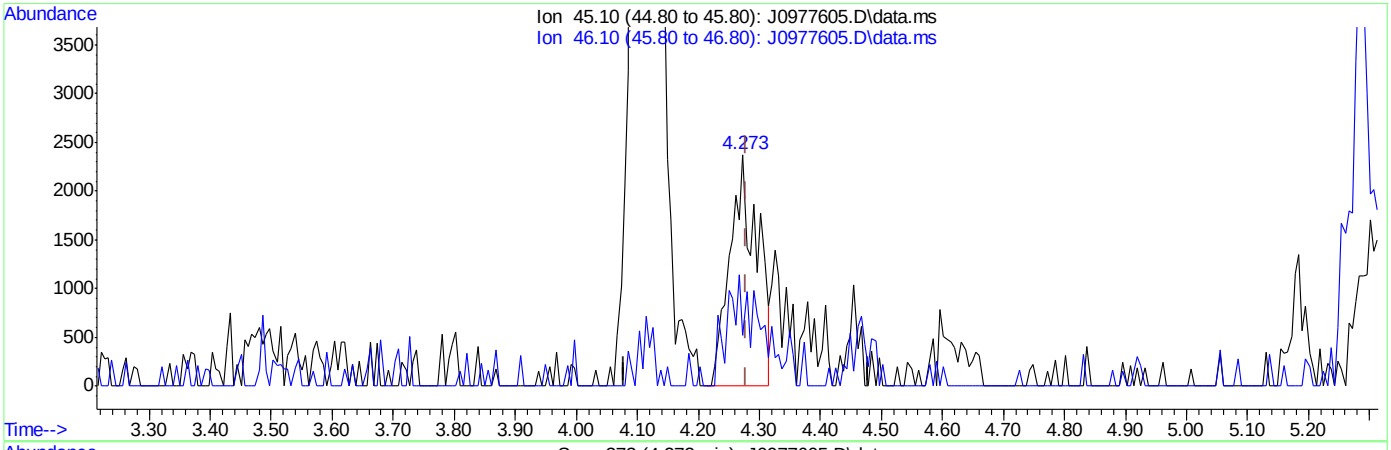
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	99.66
120.90	27.00	37.56
82.00	24.80	28.23

SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977605.D
Acq On : 27 Jun 2016 5:50 pm
Operator : darshnap
Sample : fa34821-6ms ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:06:05 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



TIC: J0977605.D\data.ms

(107) Ethanol

4.273min (-0.006) 388.95ug/L

response 7336

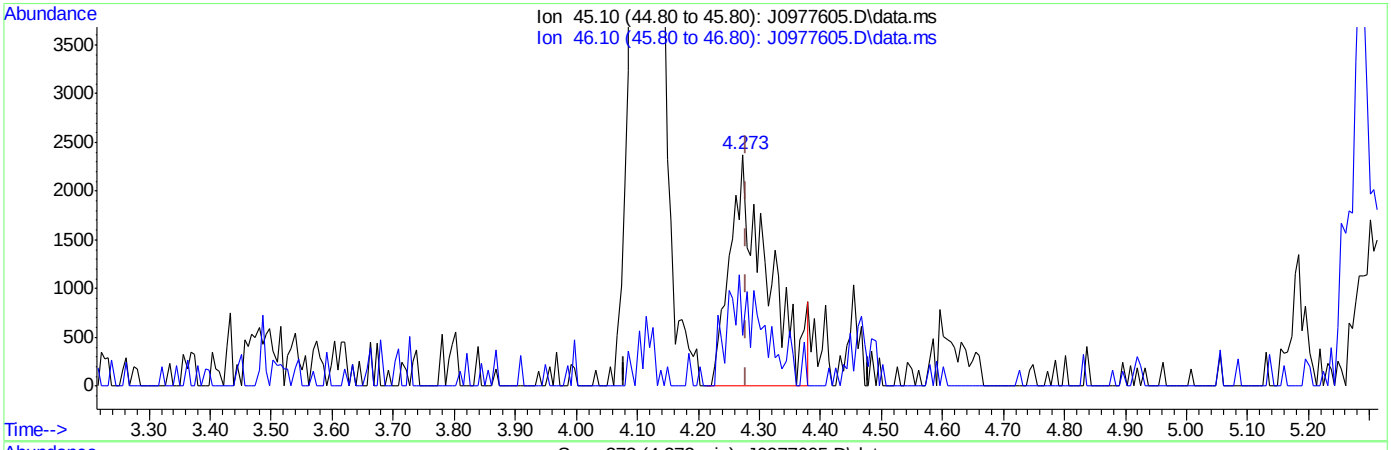
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	21.76
0.00	0.00	0.00
0.00	0.00	0.00

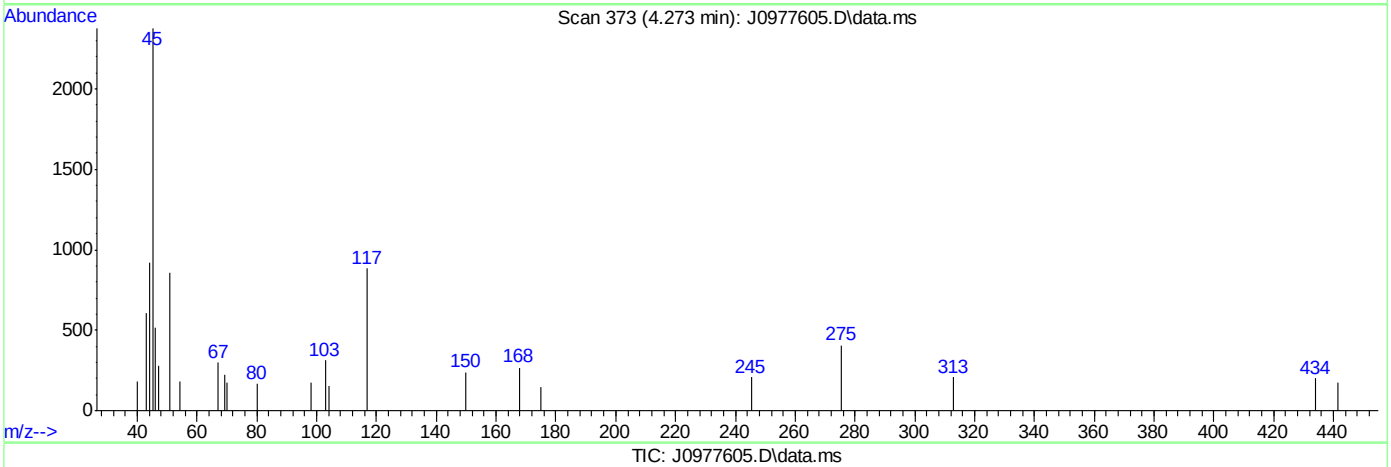
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977605.D
Acq On : 27 Jun 2016 5:50 pm
Operator : darshnap
Sample : fa34821-6ms ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:06:05 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977605.D\data.ms

(107) Ethanol

4.273min (-0.006) 542.91ug/L m

response 10240

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	21.76
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/28/16 13:40

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977606.D
Acq On : 27 Jun 2016 6:13 pm
Operator : darshnap
Sample : fa34821-6msd ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:18:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	544447	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	385617	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	187477	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	39318	250.00	ug/L	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	138169	48.22	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.44%			
46) 1,2-Dichloroethane-d4	7.464	65	177811	42.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 85.04%			
57) Toluene-d8	9.285	98	543954	53.37	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 106.74%			
79) 4-Bromofluorobenzene	12.041	95	198703	55.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 110.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	66760	17.04	ug/L	90
3) Chloromethane	2.881	50	87908	22.22	ug/L	93
4) Vinyl Chloride	3.028	62	102879	26.35	ug/L	96
5) 1,3-Butadiene	3.016	54	20072	6.59	ug/L #	85
6) Bromomethane	3.433	94	85232	25.97	ug/L	88
7) Chloroethane	3.598	64	67415	25.77	ug/L	96
8) Trichlorofluoromethane	3.780	101	164288	24.85	ug/L	98
9) Ethyl Ether	4.109	59	59034	22.80	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.332	67	92604	27.87	ug/L	89
11) 1,1-Dichloroethene	4.379	61	110579	22.26	ug/L	94
12) Freon 113	4.444	101	60641	20.13	ug/L	89
13) Carbon Disulfide	4.461	76	199230	21.86	ug/L	97
14) Iodomethane	4.573	142	95882	20.45	ug/L	93
15) Allyl chloride	4.914	41	72315	17.27	ug/L	92
16) Methylene Chloride	5.031	49	106570	24.38	ug/L	91
17) Acetone	5.061	58	23972	132.37	ug/L #	47
18) Methyl acetate	5.178	74	41175	124.48	ug/L #	80
19) trans-1,2-Dichloroethene	5.219	61	100134	24.62	ug/L	96
20) Hexane	5.284	56	65866	24.21	ug/L #	88
21) Methyl Tert Butyl Ether	5.313	73	172895	19.66	ug/L	98
22) Acetonitrile	5.572	40	27341	200.91	ug/L	92
23) Di-isopropyl ether	5.707	45	225058	21.33	ug/L	84
24) Chloroprene	5.860	53	100600	17.51	ug/L	99
25) 1,1-Dichloroethane	5.877	63	133646	24.40	ug/L	89
26) Acrylonitrile	5.907	53	101460	127.90	ug/L	87
27) ETBE	6.095	59	216277	19.59	ug/L	98
28) Vinyl acetate	6.095	43	524501	90.34	ug/L	98
29) cis-1,2-Dichloroethene	6.453	96	80271	24.00	ug/L #	80
30) 2,2-Dichloropropane	6.582	77	89301	19.29	ug/L	98
31) Bromochloromethane	6.665	128	33373	22.78	ug/L	94
32) Cyclohexane	6.712	56	125801	24.47	ug/L	98
33) Chloroform	6.723	83	139169	22.33	ug/L	96
34) Ethyl acetate	6.788	43	222803	105.51	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977606.D
Acq On : 27 Jun 2016 6:13 pm
Operator : darshnap
Sample : fa34821-6msd ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:18:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.905	42	14866	24.47	ug/L		82
37) Carbon Tetrachloride	6.917	117	93566	20.93	ug/L		96
38) 1,1,1-Trichloroethane	6.970	97	115506	21.02	ug/L		88
39) 2-Butanone	7.011	43	98352	118.16	ug/L		78
40) 1,1-Dichloropropene	7.088	75	93565	23.38	ug/L		95
41) tert-Butyl Formate	7.176	59	315739	168.27	ug/L	#	76
42) Propionitrile	7.317	54	74474	252.85	ug/L		93
43) Methacrylonitrile	7.346	41	308357	230.23	ug/L		98
44) Benzene	7.340	78	277064	24.82	ug/L		92
45) TAME	7.423	73	181307	20.50	ug/L		92
47) 1,2-Dichloroethane	7.534	62	98579	19.36	ug/L		97
48) Trichloroethene	7.922	95	73864	24.42	ug/L		93
49) Methylcyclohexane	7.945	83	129786	24.61	ug/L		87
50) Dibromomethane	8.345	93	39694	23.56	ug/L		98
51) 1,2-Dichloropropane	8.433	63	71824	24.36	ug/L		87
52) Bromodichloromethane	8.480	83	85664	18.90	ug/L		84
53) Methyl methacrylate	8.580	41	45695	21.92	ug/L	#	78
54) 2-Chloroethyl vinyl ether	8.991	63	173538	110.01	ug/L		88
55) cis-1,3-Dichloropropene	9.097	75	97625	19.97	ug/L		90
58) Toluene	9.338	91	298013	24.68	ug/L		95
59) 2-Nitropropane	9.544	41	53065	77.50	ug/L		93
60) 4-Methyl-2-pentanone	9.661	43	242593	126.95	ug/L		95
61) trans-1,3-Dichloropropene	9.720	75	87496	21.47	ug/L		92
62) Tetrachloroethene	9.743	166	69800	23.58	ug/L		87
63) Ethyl methacrylate	9.826	69	64394	21.33	ug/L	#	79
64) 1,1,2-Trichloroethane	9.884	83	52132	26.27	ug/L		85
65) Dibromochloromethane	10.084	129	53290	18.44	ug/L		91
66) 1,3-Dichloropropane	10.166	76	94768	22.52	ug/L		88
67) 1,2-Dibromoethane	10.343	107	56389	23.81	ug/L		100
68) 2-hexanone	10.472	43	159695	122.94	ug/L		91
69) 1-Chlorohexane	10.777	91	94519	24.59	ug/L		84
70) Ethylbenzene	10.848	91	655867	45.58	ug/L		99
71) Chlorobenzene	10.848	112	195045	25.37	ug/L		86
72) 1,1,1,2-Tetrachloroethane	10.901	131	59404	22.40	ug/L		85
73) m,p-Xylene	10.983	91	1160280	104.32	ug/L		91
74) o-Xylene	11.424	91	312802	26.71	ug/L		99
75) Styrene	11.471	104	204374	23.53	ug/L		97
76) Bromoform	11.535	173	26570	15.81	ug/L		94
77) Isopropylbenzene	11.729	105	350233	25.93	ug/L		93
80) cis-1,4-Dichloro-2-butene	12.076	53	10971	12.33	ug/L		93
81) n-Propylbenzene	12.146	91	424573	28.40	ug/L		95
82) Bromobenzene	12.170	156	66490	22.29	ug/L		95
83) 1,1,2,2-Tetrachloroethane	12.205	83	76374	29.94	ug/L		97
84) 1,3,5-Trimethylbenzene	12.329	105	273244	24.60	ug/L		98
85) 2-Chlorotoluene	12.340	91	271309	25.91	ug/L		91
86) trans-1,4-Dichloro-2-B...	12.387	53	11664	13.03	ug/L		93
87) 1,2,3-Trichloropropane	12.364	110	19081	25.40	ug/L		89
88) Cyclohexanone	12.434	55	8504	135.08	ug/L		90
89) 4-Chlorotoluene	12.499	91	239006	23.84	ug/L		96
90) a-Methyl Styrene	12.675	118	3683	0.69	ug/L	#	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977606.D
Acq On : 27 Jun 2016 6:13 pm
Operator : darshnap
Sample : fa34821-6msd ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:18:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	169291	26.18	ug/L		93
92)	1,2,4-Trimethylbenzene	12.740	105	280959	25.03	ug/L		94
93)	Pentachloroethane	12.722	167	40646	24.02	ug/L		92
94)	sec-Butylbenzene	12.852	105	374976	28.21	ug/L		98
95)	4-Isopropyltoluene	12.987	119	302481	26.88	ug/L		100
96)	1,3-Dichlorobenzene	13.122	146	138313	25.58	ug/L		92
97)	1,4-Dichlorobenzene	13.204	146	143434	26.07	ug/L		97
98)	n-Butylbenzene	13.416	92	170462	26.51	ug/L		87
99)	Benzyl Chloride	13.433	126	17677	18.90	ug/L	#	87
100)	1,2-Dichlorobenzene	13.633	146	124813	24.76	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.367	75	9357	21.07	ug/L	#	75
102)	Hexachlorobutadiene	14.914	225	41405	18.99	ug/L		92
103)	1,2,4-Trichlorobenzene	14.961	180	79411	19.65	ug/L		93
104)	Naphthalene	15.243	128	167713	28.93	ug/L		99
105)	1,2,3-Trichlorobenzene	15.413	180	69341	23.32	ug/L		90
107)	Ethanol	4.279	45	11363m	553.68	ug/L		
108)	acrolein	4.749	56	35032	82.35	ug/L	#	73
109)	Tert Butyl Alcohol	5.366	59	46232	205.41	ug/L		84
110)	tert Amyl alcohol	7.564	59	36415	207.60	ug/L	#	81
111)	Isobutyl alcohol	7.440	42	28345	415.92	ug/L		91
112)	1,4-Dioxane	8.651	88	11670	581.22	ug/L		89
113)	3,3-Dimethyl-1-butanol	10.419	57	216588	1364.65	ug/L		88

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

7.4.6

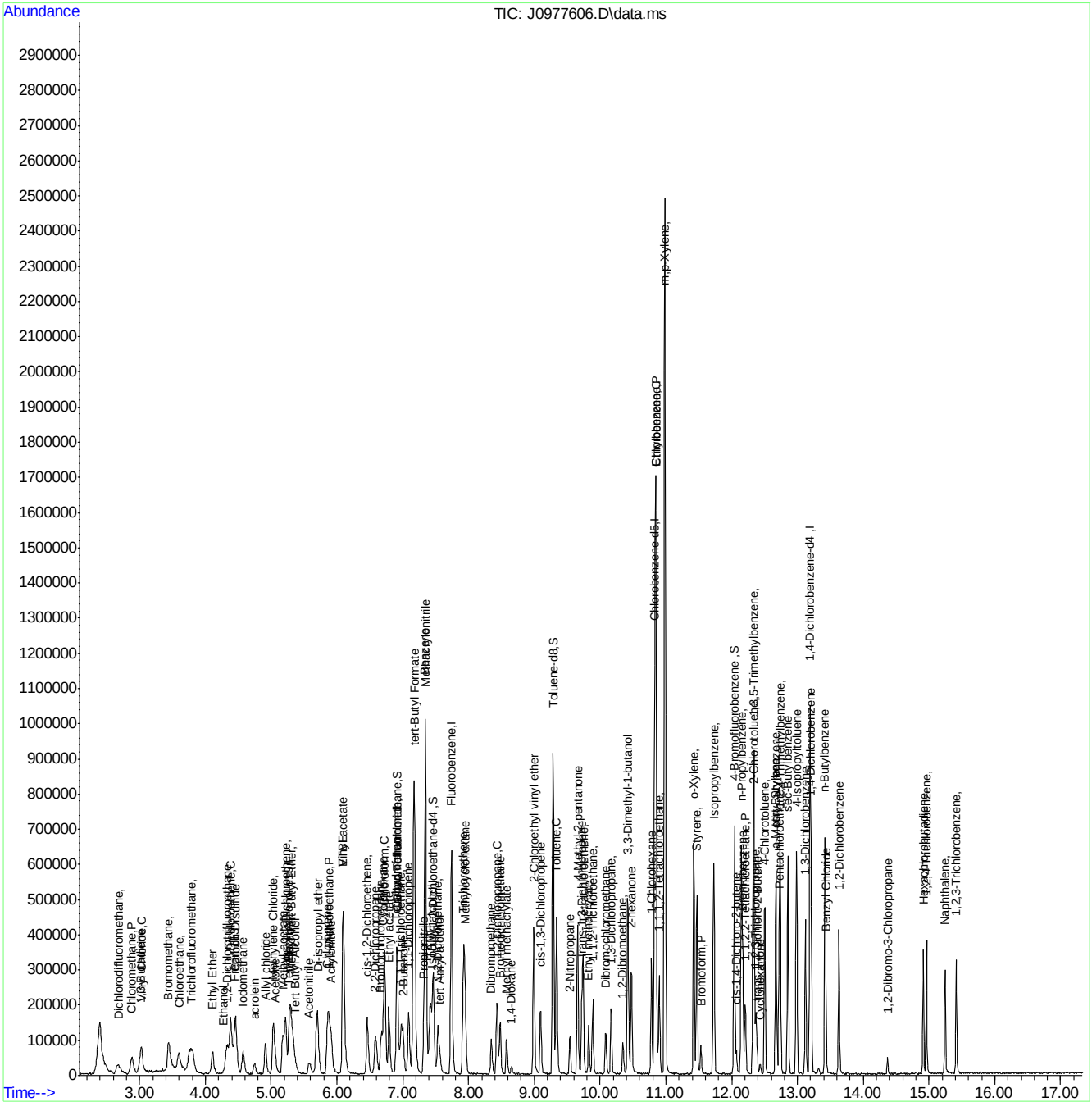
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977606.D
Acq On : 27 Jun 2016 6:13 pm
Operator : darshnap
Sample : fa34821-6msd ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:18:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



Manual Integration Approval Summary

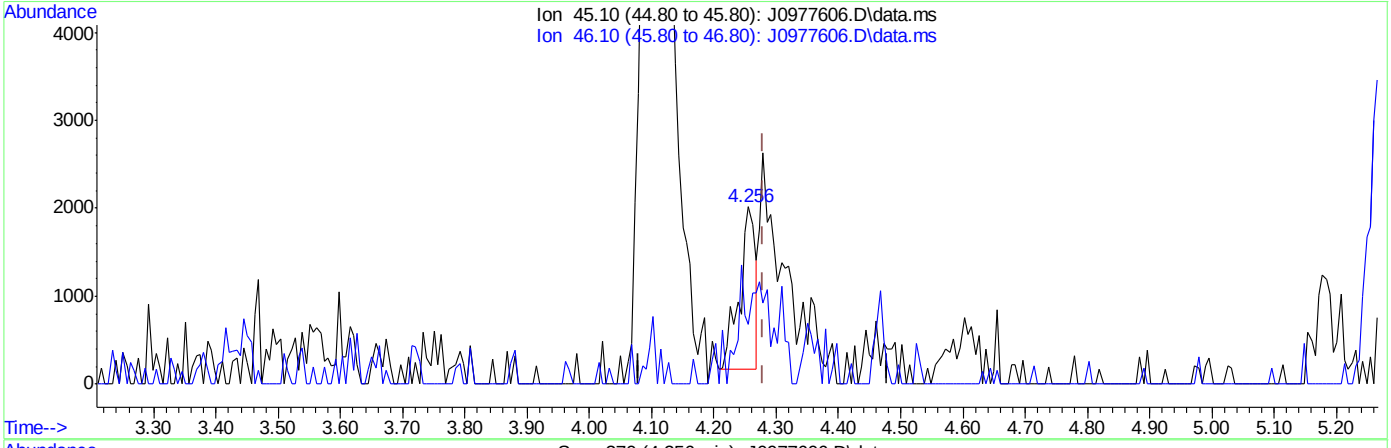
Sample Number:	FA34821-6MSD	**Method:**	SW846 8260C
Lab FileID:	J0977606.D	**Analyst approved:**	06/28/16 12:45 Darshna Patel
Injection Time:	06/27/16 18:13	**Supervisor approved:**	06/28/16 13:40 Juan Garcia

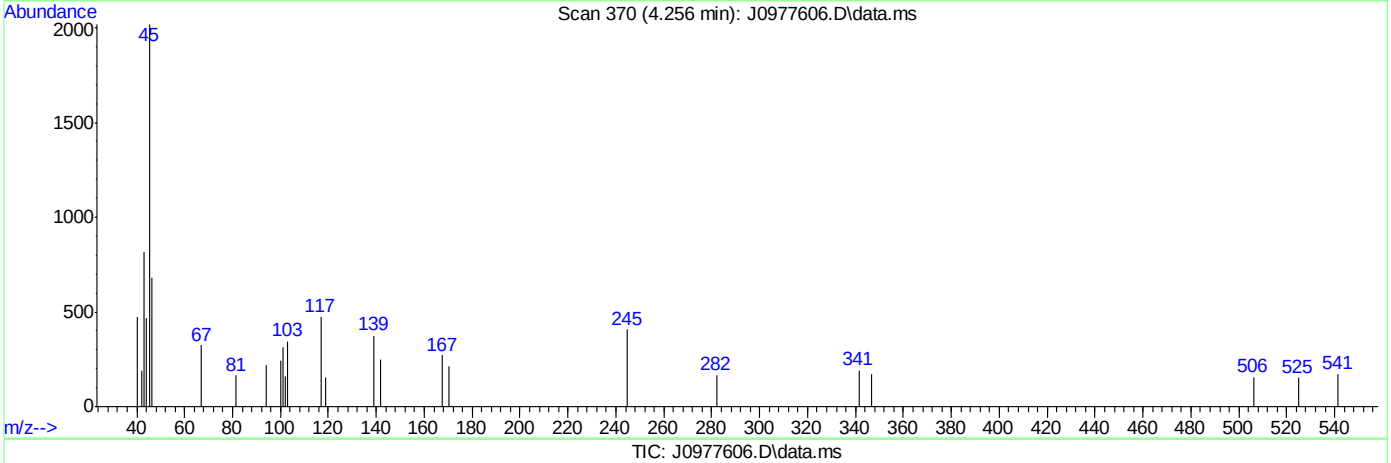
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977606.D
Acq On : 27 Jun 2016 6:13 pm
Operator : darshnap
Sample : fa34821-6msd ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:06:08 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977606.D\data.ms

(107) Ethanol

4.256min (-0.023) 156.12ug/L

response 3204

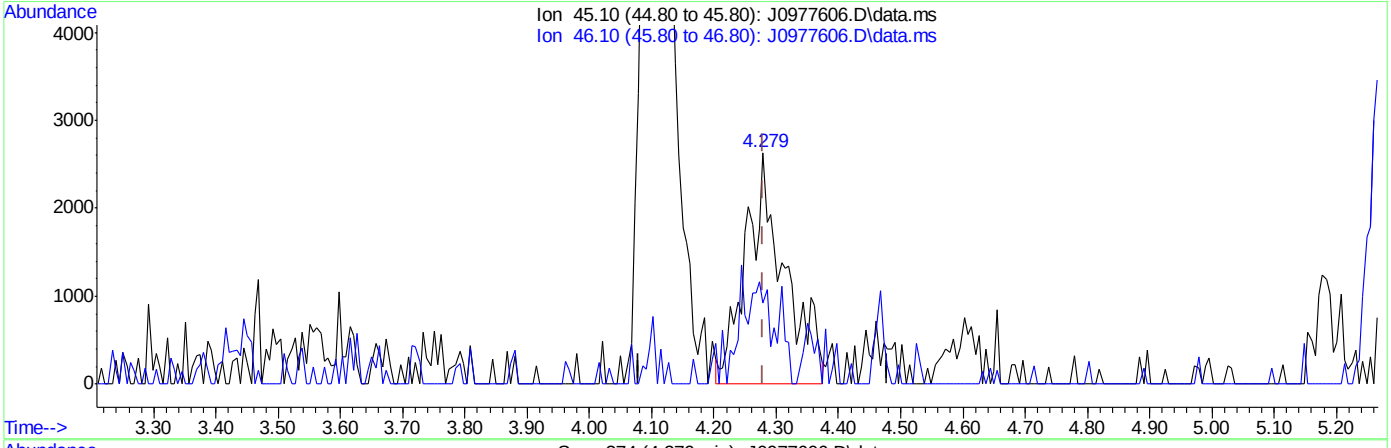
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	36.99
0.00	0.00	0.00
0.00	0.00	0.00

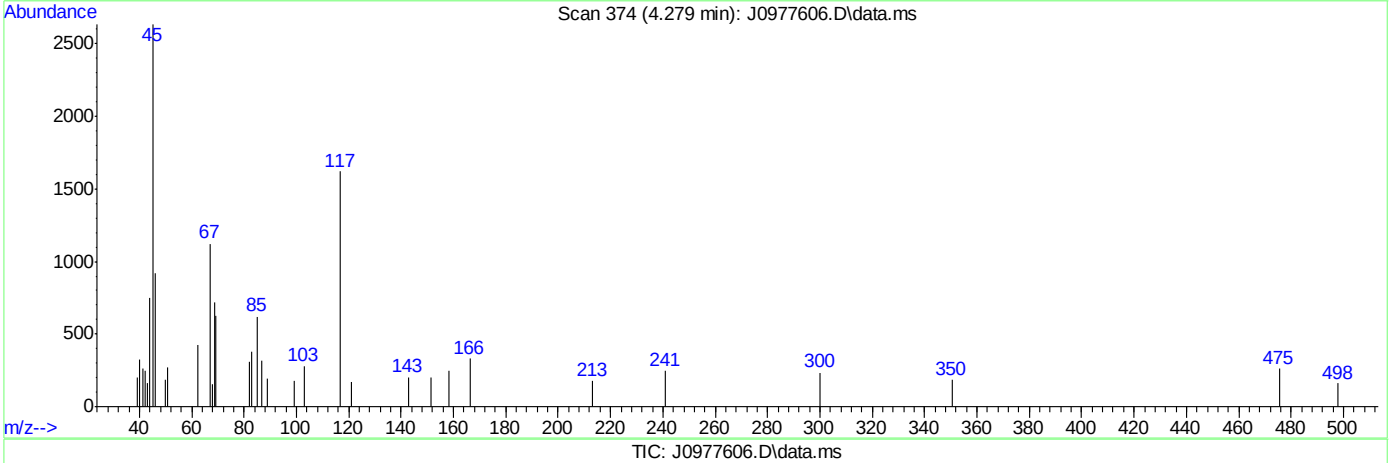
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977606.D
Acq On : 27 Jun 2016 6:13 pm
Operator : darshnap
Sample : fa34821-6msd ma Inst : MSVOA6
Misc : MS34239,vj5352,,,,,250
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jun 28 08:06:08 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977606.D\data.ms

(107) Ethanol

4.279min (+0.000) 553.68ug/L m

response 11363

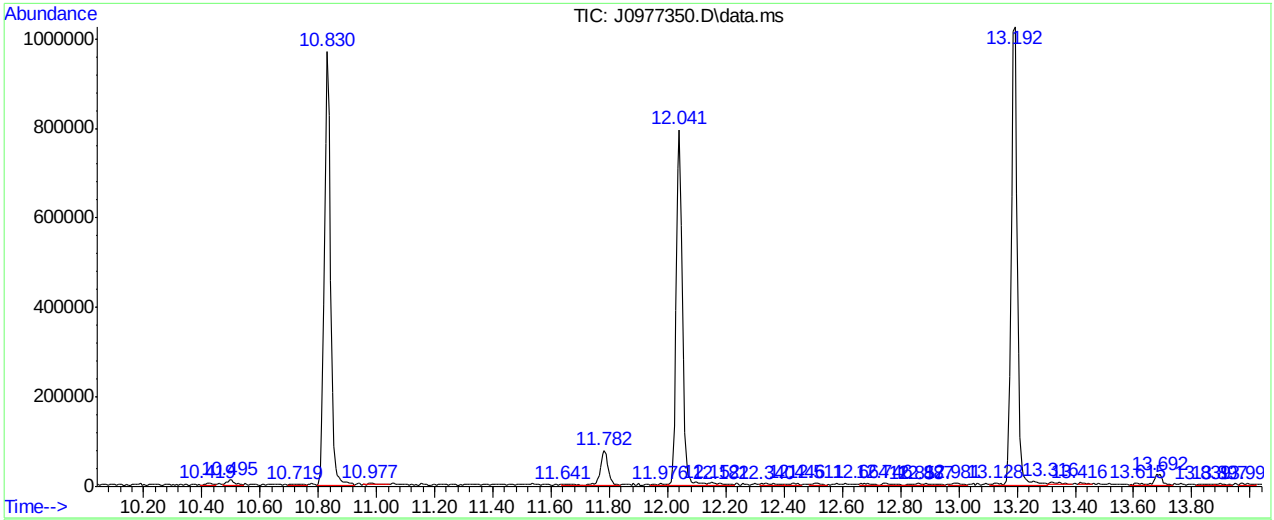
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	35.04
0.00	0.00	0.00
0.00	0.00	0.00

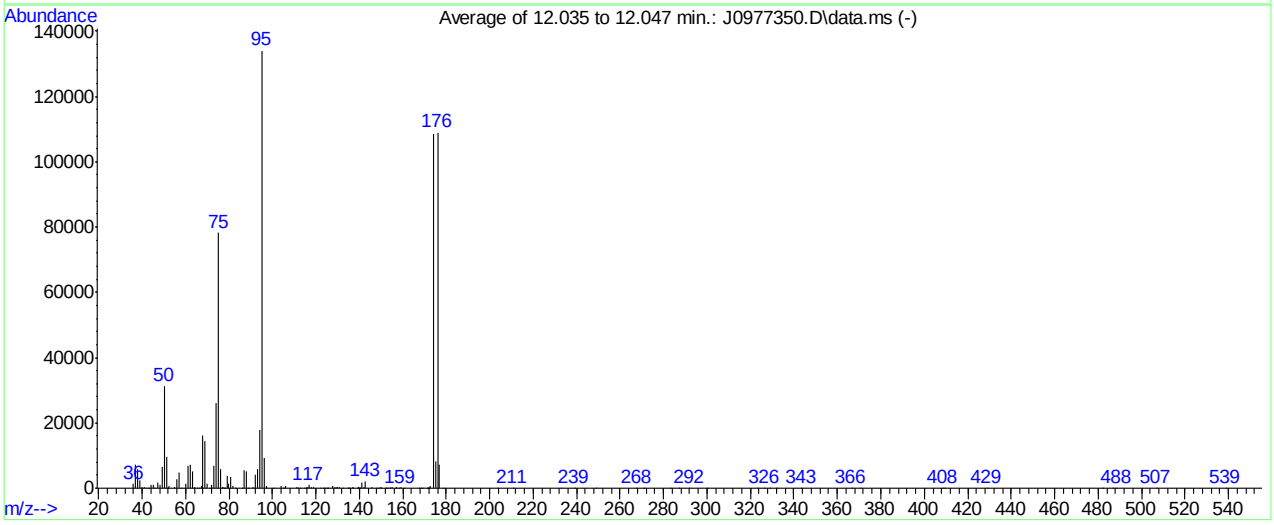
SGS ACCUTEST FA34821

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\062116\J0977350.D          Vial: 1
Acq On    : 21 Jun 2016   7:44 am                    Operator: darshnap
Sample    : bfb                                      Inst    : MSVOA6
Misc      : MS34057,vj5340,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method    : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title     : SW-846 Method 5030B/8260B & EPA 624
```





AutoFind: Scans 1694, 1695, 1696; Background Corrected with Scan 1687

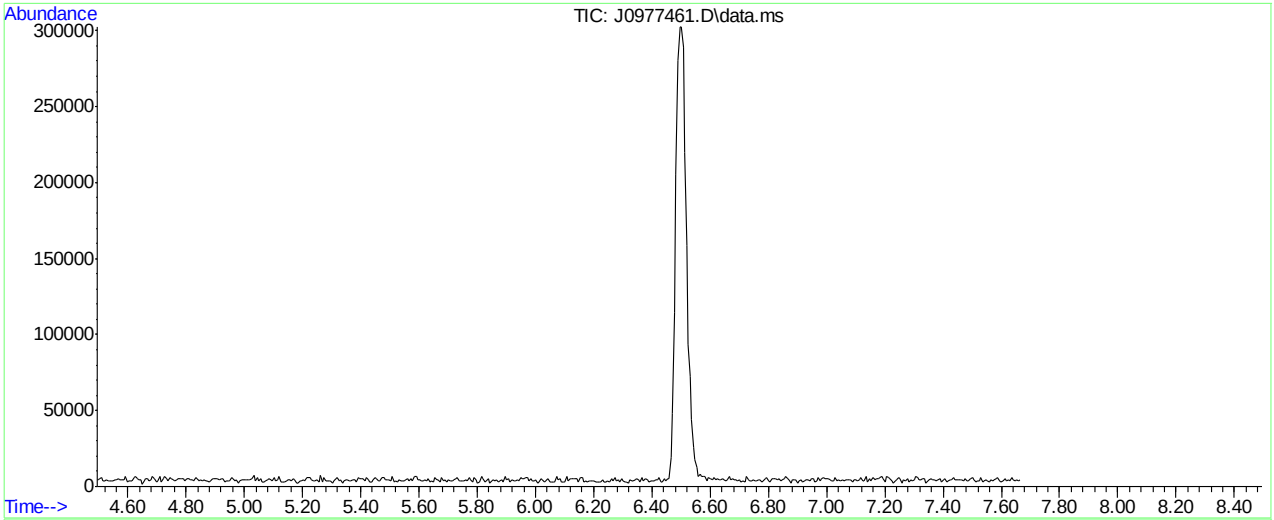
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.3	31261	PASS
75	95	30	60	58.4	78256	PASS
95	95	100	100	100.0	134093	PASS
96	95	5	9	6.9	9296	PASS
173	174	0.00	2	0.6	650	PASS
174	95	50	100	80.9	108475	PASS
175	174	5	9	7.8	8418	PASS
176	174	95	101	100.4	108896	PASS
177	176	5	9	6.7	7295	PASS

J0977350.D MSJ062116a.M Wed Jun 22 07:58:19 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\062316\J0977461.D Vial: 1
Acq On : 23 Jun 2016 9:06 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34215,vj5345,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 580, 581, 582; Background Corrected with Scan 572

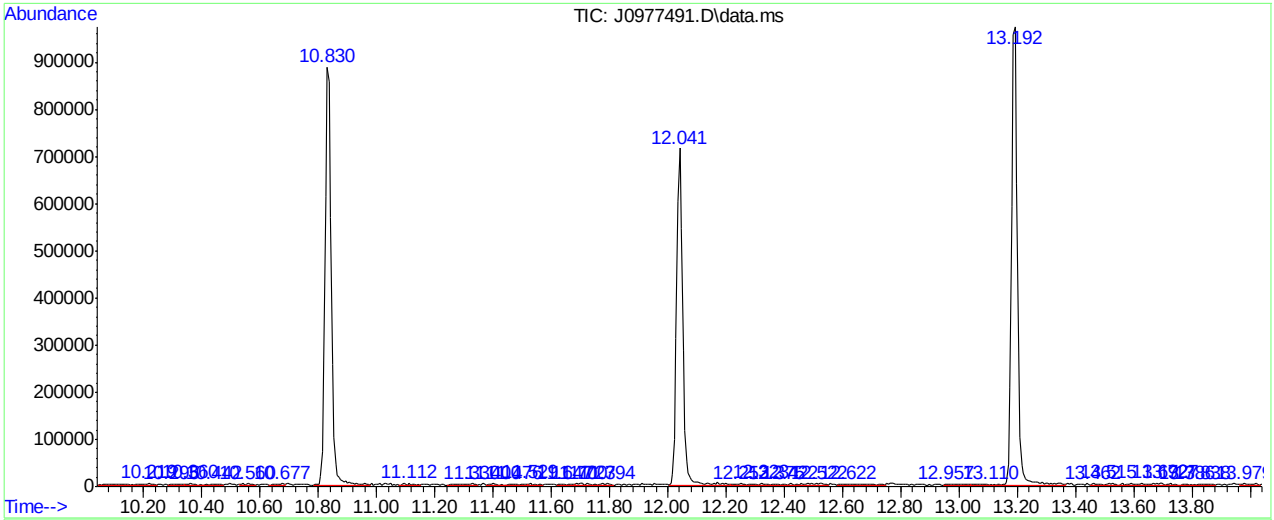
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	12936	PASS
75	95	30	60	57.7	34445	PASS
95	95	100	100	100.0	59733	PASS
96	95	5	9	6.8	4046	PASS
173	174	0.00	2	0.2	72	PASS
174	95	50	100	67.9	40539	PASS
175	174	5	9	8.1	3271	PASS
176	174	95	101	98.4	39875	PASS
177	176	5	9	7.4	2959	PASS

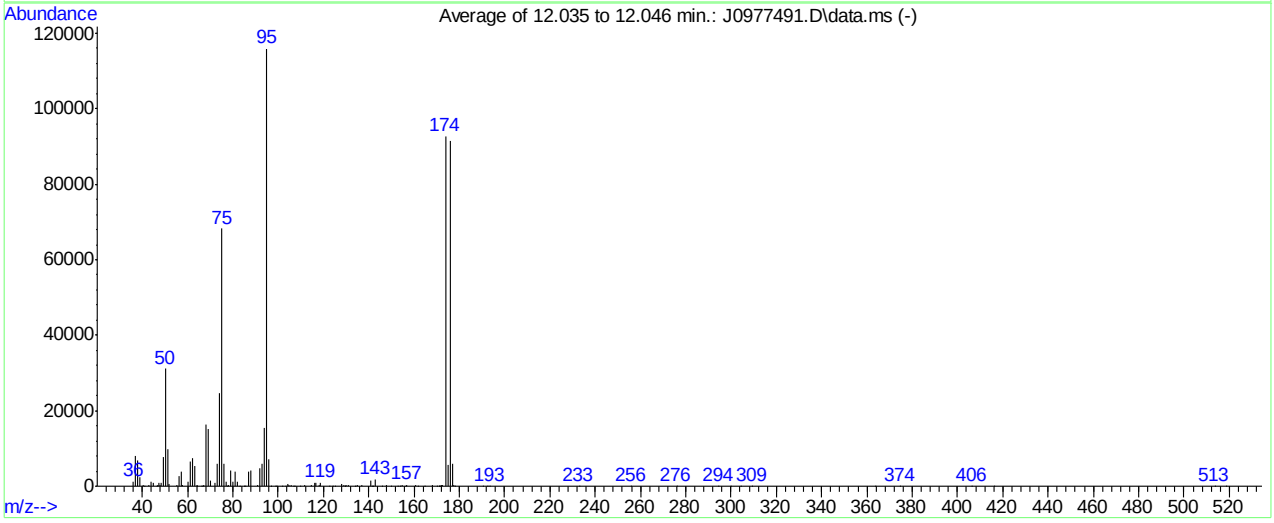
J0977461.D MSJ062116a.M Fri Jun 24 08:51:59 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\062416\J0977491.D Vial: 1
Acq On : 24 Jun 2016 8:16 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34215,vj5347,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624





AutoFind: Scans 1694, 1695, 1696; Background Corrected with Scan 1687

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.8	31104	PASS
75	95	30	60	58.8	68192	PASS
95	95	100	100	100.0	115984	PASS
96	95	5	9	6.3	7279	PASS
173	174	0.00	2	0.3	324	PASS
174	95	50	100	80.0	92827	PASS
175	174	5	9	6.2	5786	PASS
176	174	95	101	98.7	91589	PASS
177	176	5	9	6.5	5998	PASS

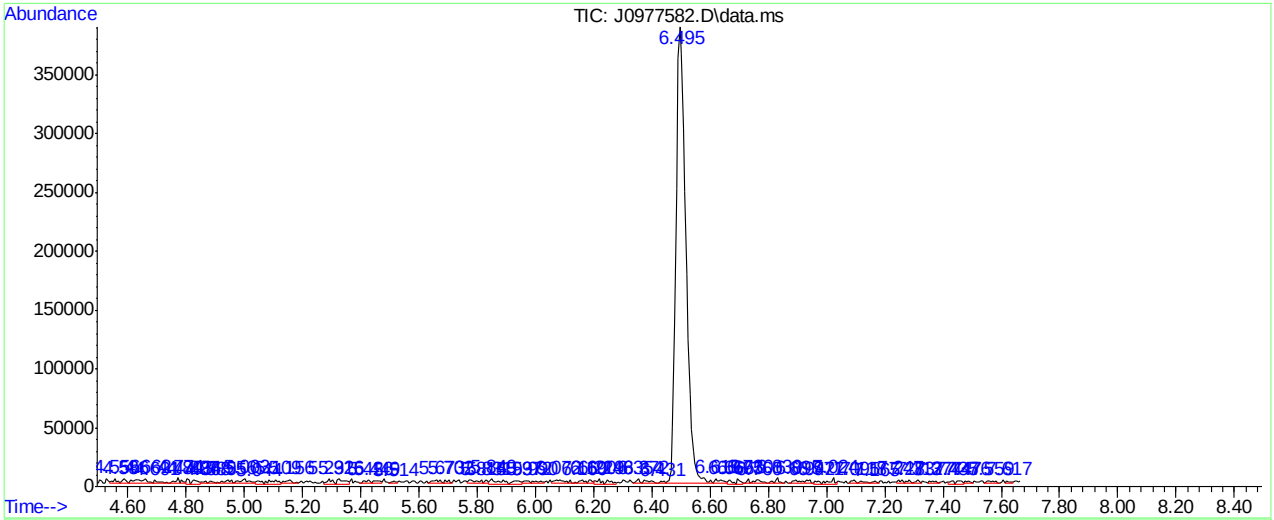
J0977491.D MSJ062116a.M Sat Jun 25 11:02:15 2016

SGS ACCUTEST FA34821

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\062716\J0977582.D Vial: 1
Acq On : 27 Jun 2016 8:47 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34242,vj5351,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ062116a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 580, 581, 582; Background Corrected with Scan 570

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.7	16326	PASS
75	95	30	60	52.8	39800	PASS
95	95	100	100	100.0	75376	PASS
96	95	5	9	5.5	4179	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	73.6	55480	PASS
175	174	5	9	7.6	4223	PASS
176	174	95	101	96.7	53637	PASS
177	176	5	9	7.1	3811	PASS

J0977582.D MSJ062116a.M Tue Jun 28 09:30:39 2016

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:52:09 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	609784	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	439537	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	252669	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	43013	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	166488	53.89	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 107.78%			
46) 1,2-Dichloroethane-d4	7.464	65	215933	51.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.34%			
57) Toluene-d8	9.285	98	582763	50.41	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.82%			
79) 4-Bromofluorobenzene	12.041	95	208801	43.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 86.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	4029m	1.20	ug/L	
3) Chloromethane	2.887	50	3404	0.87	ug/L	78
4) Vinyl Chloride	3.033	62	3961	1.13	ug/L	62
5) 1,3-Butadiene	3.010	54	2518	0.89	ug/L #	28
6) Bromomethane	3.456	94	4061	1.46	ug/L	73
7) Chloroethane	3.621	64	1986	0.86	ug/L #	43
8) Trichlorofluoromethane	3.821	101	6535m	1.18	ug/L	
9) Ethyl Ether	4.103	59	3087m	1.25	ug/L	
10) 1,2-Dichlorotrifluoroe...	4.355	67	3634	1.15	ug/L #	67
11) 1,1-Dichloroethene	4.385	61	4856	1.14	ug/L	78
12) Freon 113	4.455	101	1777	0.69	ug/L #	75
13) Carbon Disulfide	4.473	76	10212	1.17	ug/L	100
14) Iodomethane	4.579	142	6848	1.51	ug/L	83
15) Allyl chloride	4.914	41	4485	1.01	ug/L	96
16) Methylene Chloride	5.037	49	4580	1.06	ug/L	76
17) Acetone	5.066	58	912m	4.67	ug/L	
18) Methyl acetate	5.196	74	1686	5.01	ug/L #	51
19) trans-1,2-Dichloroethene	5.219	61	4208	1.03	ug/L	80
20) Hexane	5.301	56	3380	1.35	ug/L #	41
21) Methyl Tert Butyl Ether	5.313	73	11269	1.30	ug/L	85
22) Acetonitrile	5.595	40	788m	6.00	ug/L	
23) Di-isopropyl ether	5.713	45	11238	1.07	ug/L #	72
24) Chloroprene	5.865	53	4582	0.86	ug/L #	74
25) 1,1-Dichloroethane	5.889	63	5291	0.96	ug/L	96
26) Acrylonitrile	5.936	53	4350	5.17	ug/L	79
27) ETBE	6.106	59	12706	1.15	ug/L	80
28) Vinyl acetate	6.112	43	26349	4.22	ug/L	89
29) cis-1,2-Dichloroethene	6.482	96	4271	1.21	ug/L #	44
30) 2,2-Dichloropropane	6.588	77	5084	1.06	ug/L	68
31) Bromochloromethane	6.688	128	1656	1.07	ug/L #	57
32) Cyclohexane	6.723	56	5671	1.16	ug/L #	76
33) Chloroform	6.729	83	9026	1.46	ug/L	70
34) Ethyl acetate	6.800	43	11281	5.23	ug/L	100

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:52:09 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	607	1.03 ug/L #	58
37) Carbon Tetrachloride	6.923	117	5052	1.18 ug/L	76
38) 1,1,1-Trichloroethane	6.976	97	6034	1.13 ug/L	78
39) 2-Butanone	7.029	43	4169	4.88 ug/L	79
40) 1,1-Dichloropropene	7.093	75	4074	0.99 ug/L #	63
41) tert-Butyl Formate	7.170	59	15472	6.07 ug/L #	80
42) Propionitrile	7.328	54	3119	10.06 ug/L	93
43) Methacrylonitrile	7.352	41	12862	9.36 ug/L	92
44) Benzene	7.346	78	13034	1.20 ug/L	96
45) TAME	7.417	73	12172	1.35 ug/L	81
47) 1,2-Dichloroethane	7.540	62	7498	1.54 ug/L	65
48) Trichloroethene	7.922	95	3468	1.11 ug/L #	69
49) Methylcyclohexane	7.934	83	7678	1.56 ug/L #	58
50) Dibromomethane	8.345	93	2748	1.52 ug/L #	71
51) 1,2-Dichloropropane	8.433	63	3449	1.12 ug/L #	73
52) Bromodichloromethane	8.486	83	5195	1.24 ug/L #	84
53) Methyl methacrylate	8.580	41	1092m	0.52 ug/L	
55) cis-1,3-Dichloropropene	9.109	75	5916	1.20 ug/L	88
58) Toluene	9.332	91	17283	1.31 ug/L	81
59) 2-Nitropropane	9.538	41	3895	5.98 ug/L #	78
60) 4-Methyl-2-pentanone	9.661	43	10084	4.64 ug/L	92
61) trans-1,3-Dichloropropene	9.726	75	4887	1.17 ug/L	80
62) Tetrachloroethene	9.737	166	3191	1.08 ug/L #	68
63) Ethyl methacrylate	9.837	69	3323	0.99 ug/L #	80
64) 1,1,2-Trichloroethane	9.896	83	3008	1.37 ug/L	89
65) Dibromochloromethane	10.090	129	3991	1.32 ug/L	65
66) 1,3-Dichloropropane	10.172	76	5773	1.28 ug/L	95
67) 1,2-Dibromoethane	10.354	107	3557	1.42 ug/L	93
68) 2-hexanone	10.484	43	6576	4.43 ug/L	80
69) 1-Chlorohexane	10.777	91	4348	1.06 ug/L	94
70) Ethylbenzene	10.848	91	18292	1.21 ug/L	95
71) Chlorobenzene	10.848	112	13814	1.76 ug/L #	79
72) 1,1,1,2-Tetrachloroethane	10.901	131	4438	1.44 ug/L #	76
73) m,p-Xylene	10.989	91	28519	2.45 ug/L	90
74) o-Xylene	11.424	91	17025	1.37 ug/L	97
75) Styrene	11.483	104	11193	1.20 ug/L	90
76) Bromoform	11.541	173	2369	1.30 ug/L	84
77) Isopropylbenzene	11.729	105	16478	1.16 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.082	53	703	0.63 ug/L #	18
81) n-Propylbenzene	12.152	91	22746	1.23 ug/L	98
82) Bromobenzene	12.170	156	5372	1.31 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.205	83	4814	1.41 ug/L	95
84) 1,3,5-Trimethylbenzene	12.329	105	15598	1.13 ug/L	96
85) 2-Chlorotoluene	12.340	91	15430	1.16 ug/L	94
86) trans-1,4-Dichloro-2-B...	12.405	53	466	0.47 ug/L	89
87) 1,2,3-Trichloropropane	12.376	110	1489	1.53 ug/L #	59
88) Cyclohexanone	12.440	55	1135	13.47 ug/L #	47
89) 4-Chlorotoluene	12.505	91	16036	1.31 ug/L	95
90) a-Methyl Styrene	12.593	118	5495	0.74 ug/L #	74
91) tert-Butylbenzene	12.669	91	10226	1.31 ug/L	73

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:52:09 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92) 1,2,4-Trimethylbenzene	12.740	105	17200	1.20	ug/L		85
93) Pentachloroethane	12.728	167	2201	0.86	ug/L		87
94) sec-Butylbenzene	12.857	105	19388	1.19	ug/L		91
95) 4-Isopropyltoluene	12.987	119	17094	1.22	ug/L		84
96) 1,3-Dichlorobenzene	13.122	146	10394	1.45	ug/L		90
97) 1,4-Dichlorobenzene	13.204	146	11318m	1.56	ug/L		
98) n-Butylbenzene	13.427	92	8758	1.08	ug/L		85
99) Benzyl Chloride	13.427	126	1561	1.26	ug/L	#	47
100) 1,2-Dichlorobenzene	13.633	146	10534	1.56	ug/L		94
101) 1,2-Dibromo-3-Chloropr...	14.373	75	522	0.98	ug/L	#	79
102) Hexachlorobutadiene	14.920	225	3025	1.05	ug/L		81
103) 1,2,4-Trichlorobenzene	14.967	180	6518	1.27	ug/L		91
104) Naphthalene	15.255	128	10011	1.24	ug/L		91
105) 1,2,3-Trichlorobenzene	15.419	180	5727	1.34	ug/L	#	69
108) acrolein	4.761	56	1719m	4.55	ug/L		
109) Tert Butyl Alcohol	5.366	59	3343	14.76	ug/L	#	76
110) tert Amyl alcohol	7.558	59	2135	13.22	ug/L		91
111) Isobutyl alcohol	7.434	42	818m	13.47	ug/L		
112) 1,4-Dioxane	8.674	88	895	50.54	ug/L	#	26
113) 3,3-Dimethyl-1-butanol	10.425	57	6657	40.91	ug/L	#	77

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

7.6.1

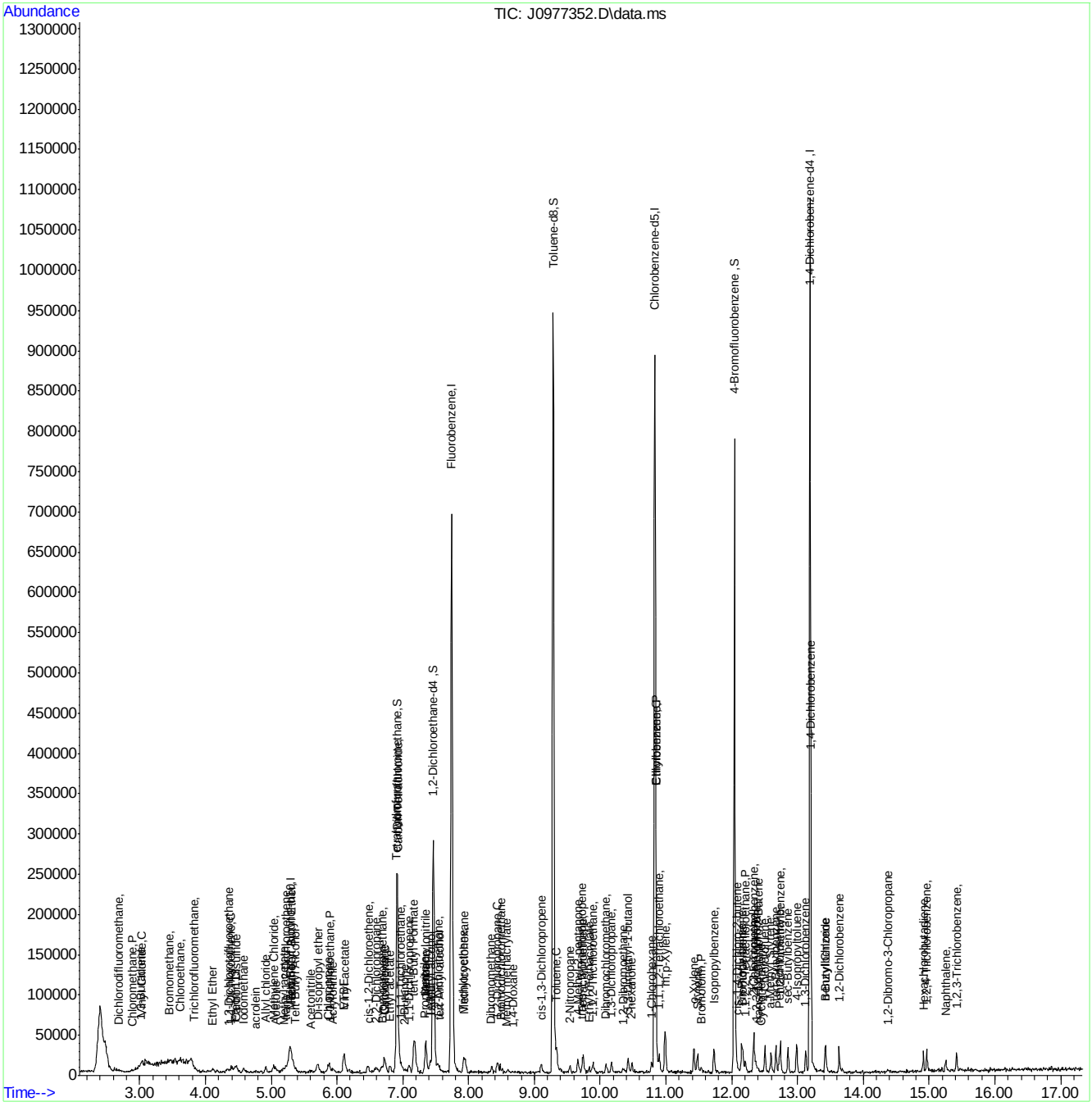
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:52:09 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



MSJ062116a.M Wed Jun 22 07:50:51 2016 Page: 4

SGS ACCUTEST FA34821

Manual Integration Approval Summary

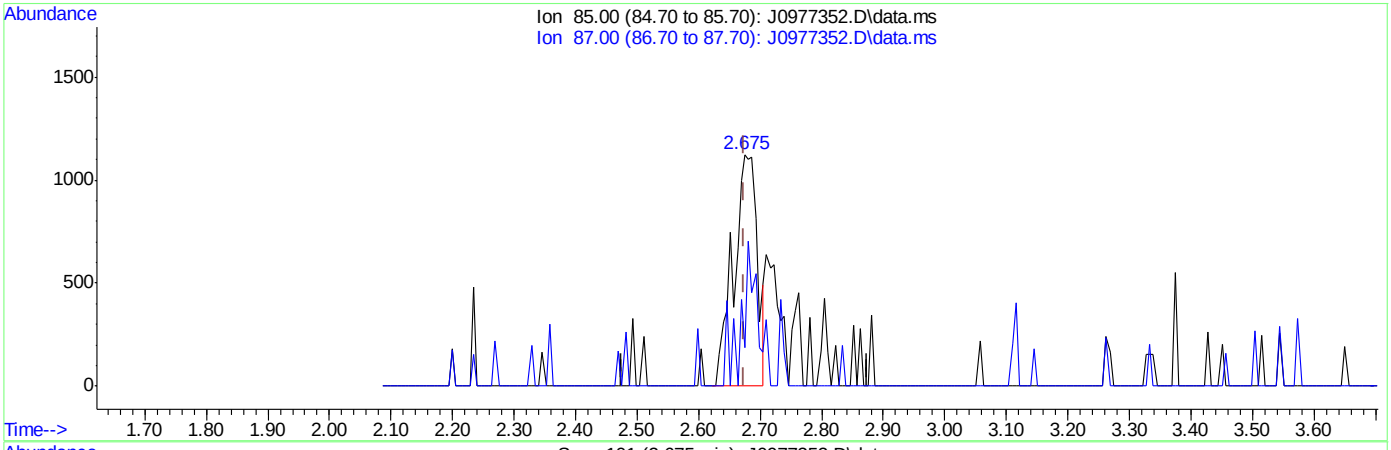
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977352.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 08:38	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

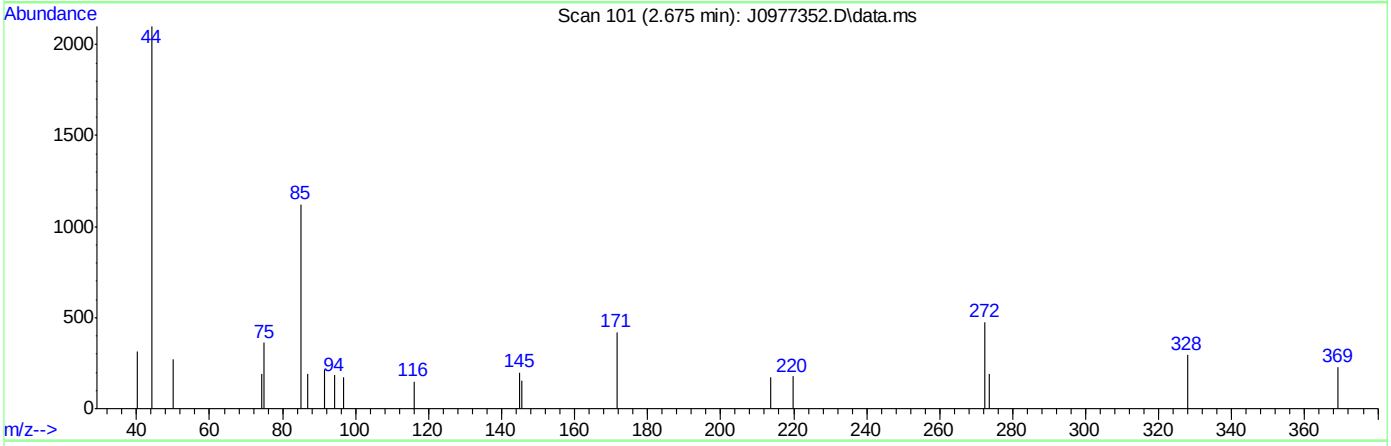
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		2.68	Poor instrument integration
Trichlorofluoromethane	75-69-4		3.82	Split peak
Ethyl Ether	60-29-7		4.10	Poor instrument integration
Acrolein	107-02-8		4.76	Poor instrument integration
Acetone	67-64-1		5.07	Poor instrument integration
Acetonitrile	75-05-8		5.60	Poor instrument integration
Isobutyl Alcohol	78-83-1		7.43	Poor instrument integration
Methyl Methacrylate	80-62-6		8.58	Poor instrument integration
1,4-Dichlorobenzene	106-46-7		13.20	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(2) Dichlorodifluoromethane ( )

2.675min (+0.000) 0.90ug/L

response 3027

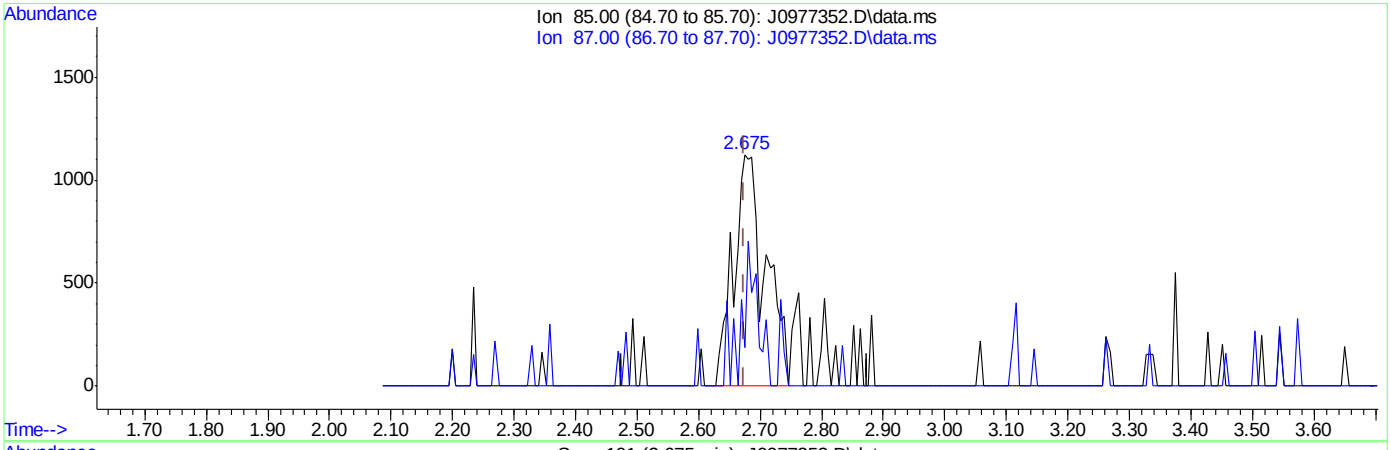
Ion	Exp%	Act%
85.00	100	100
87.00	28.80	16.81
0.00	0.00	0.00
0.00	0.00	0.00

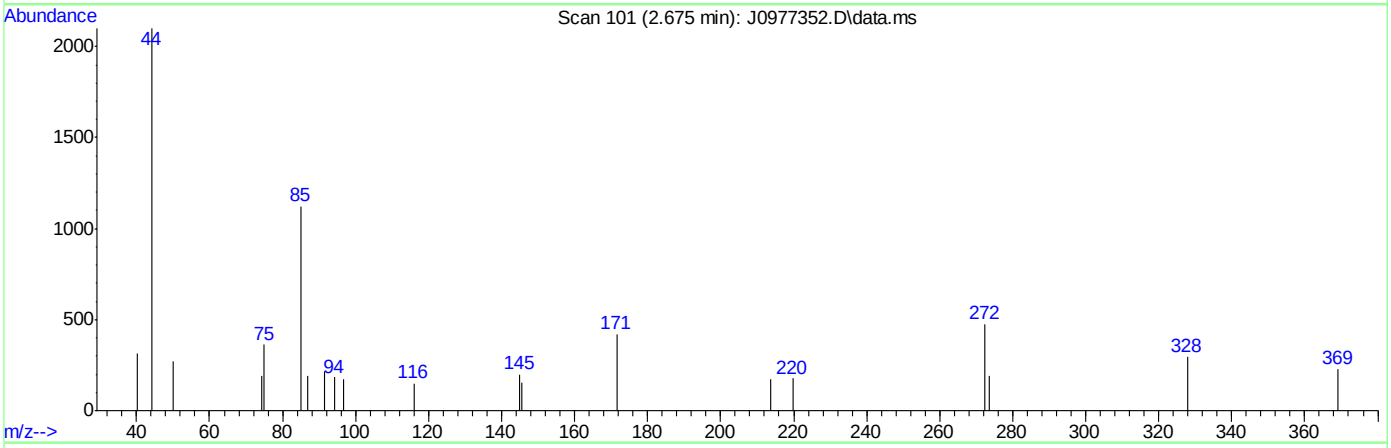
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(2) Dichlorodifluoromethane ( )

2.675min (+0.000) 1.20ug/L m

response 4029

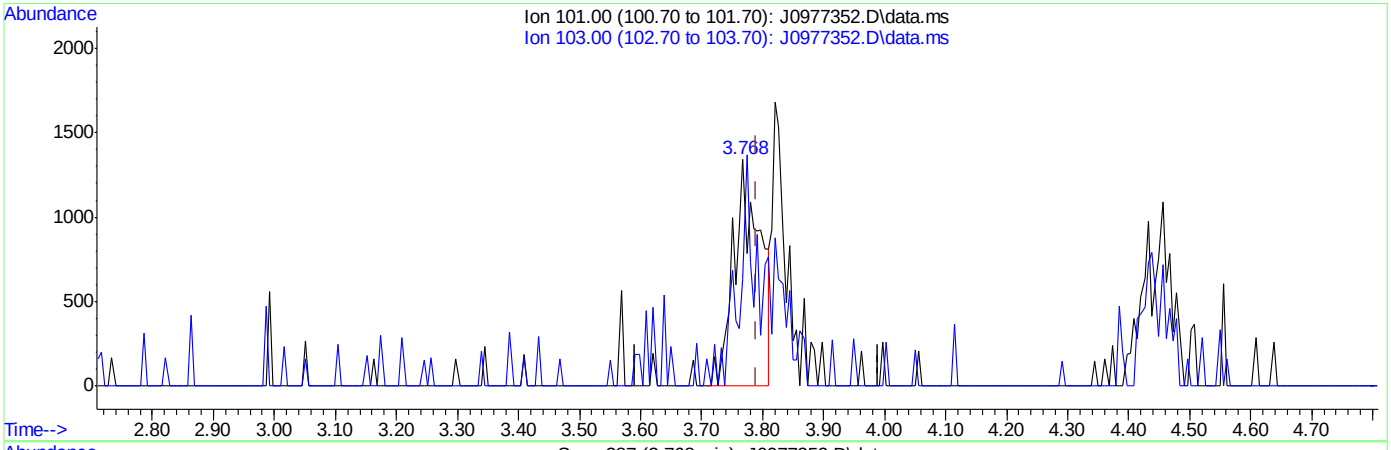
Ion	Exp%	Act%
85.00	100	100
87.00	28.80	16.81
0.00	0.00	0.00
0.00	0.00	0.00

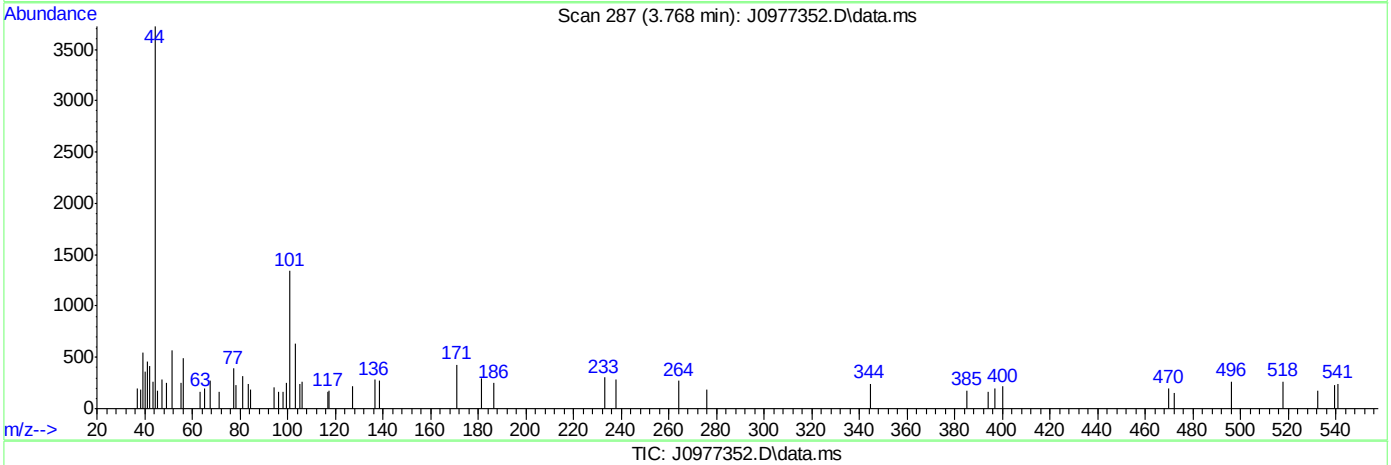
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(8) Trichlorofluoromethane ( )

3.768min (-0.023) 0.72ug/L

response 3954

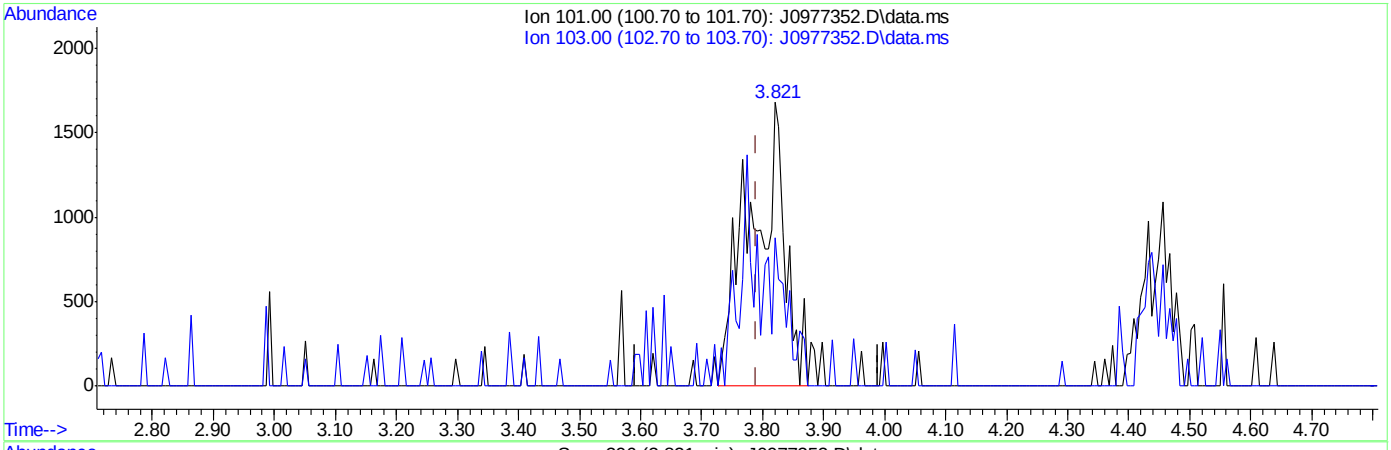
Ion	Exp%	Act%
101.00	100	100
103.00	54.80	35.52
0.00	0.00	0.00
0.00	0.00	0.00

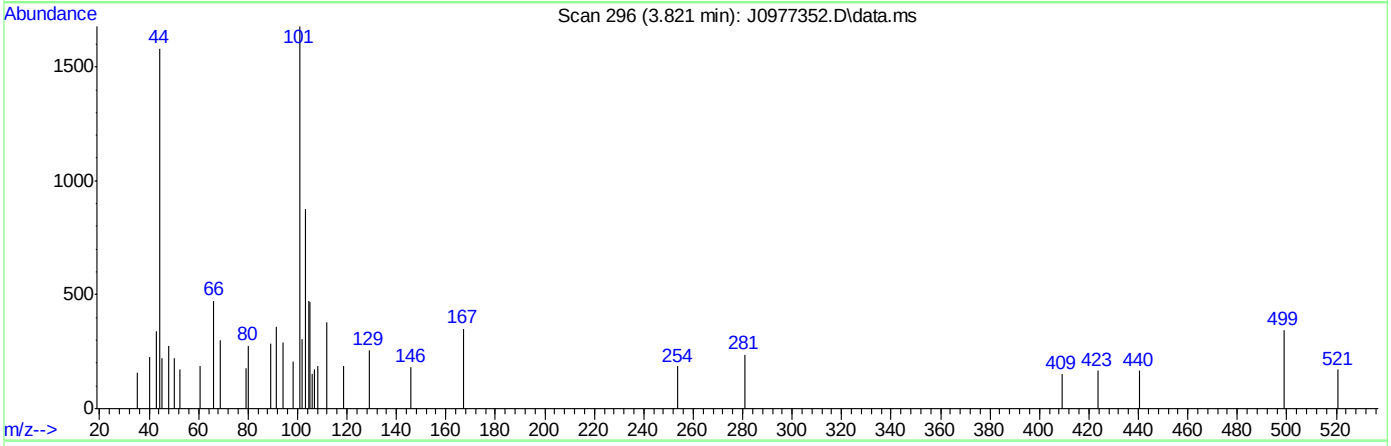
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.030) 1.18ug/L m

response 6535

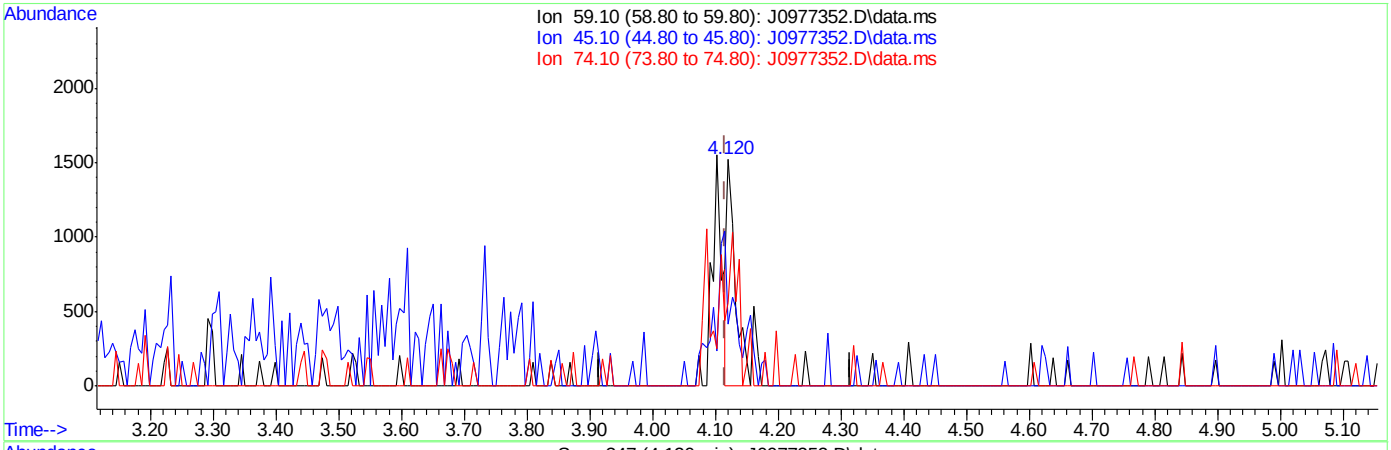
Ion	Exp%	Act%
101.00	100	100
103.00	54.80	52.15
0.00	0.00	0.00
0.00	0.00	0.00

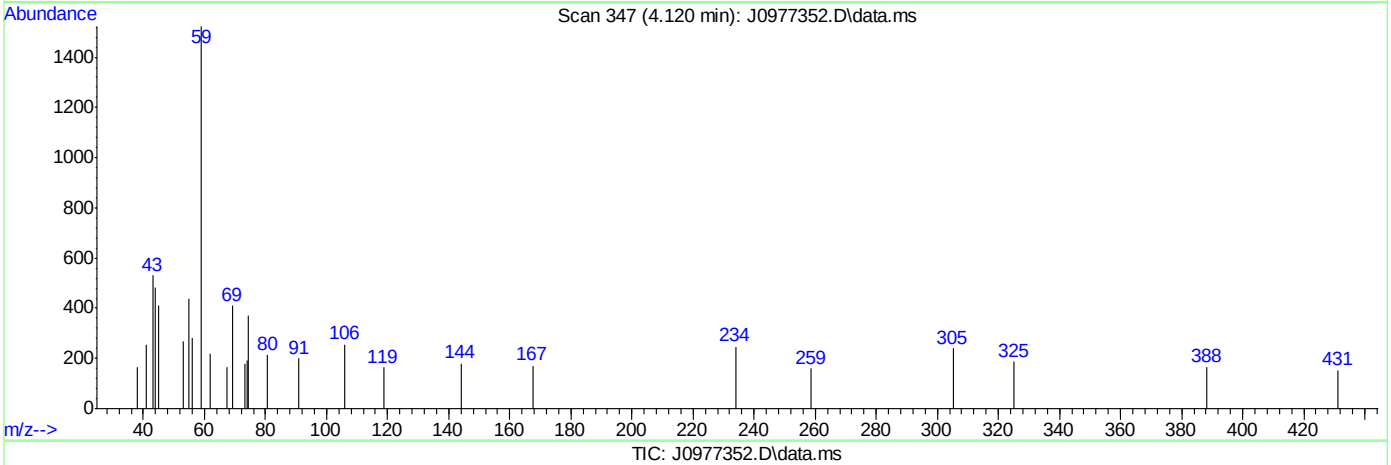
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(9) Ethyl Ether

4.120min (+0.005) 0.57ug/L

response 1400

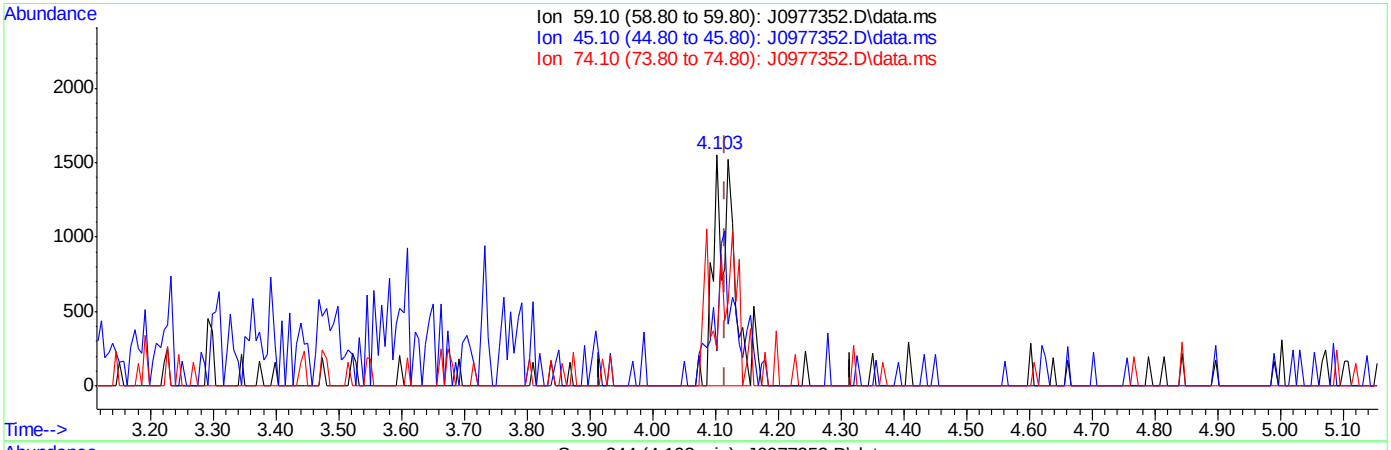
Ion	Exp%	Act%
59.10	100	100
45.10	60.20	0.00#
74.10	52.50	11.49#
0.00	0.00	0.00

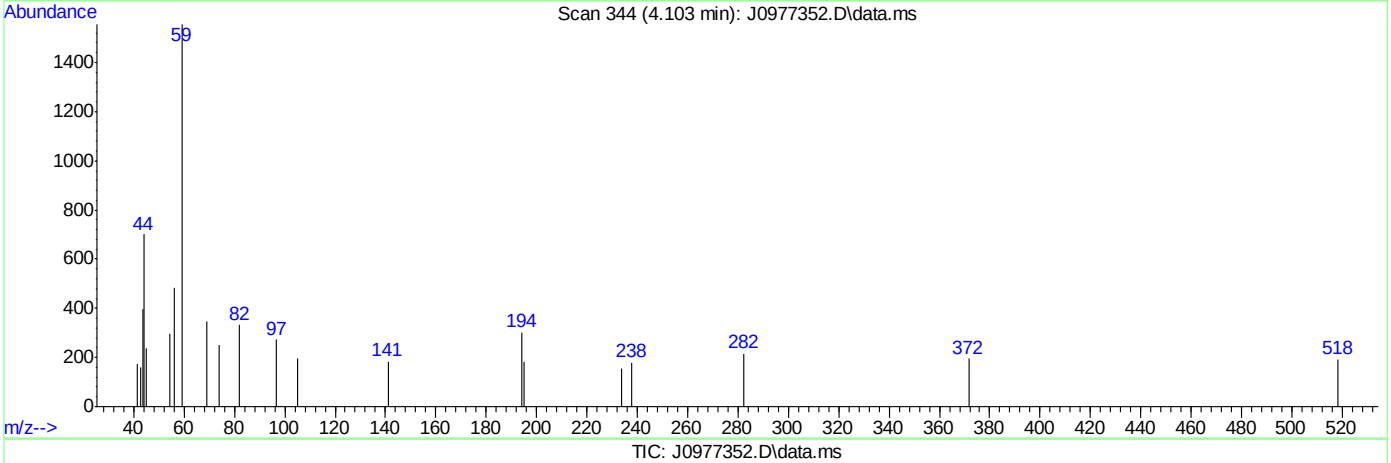
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(9) Ethyl Ether

4.103min (-0.012) 1.25ug/L m

response 3087

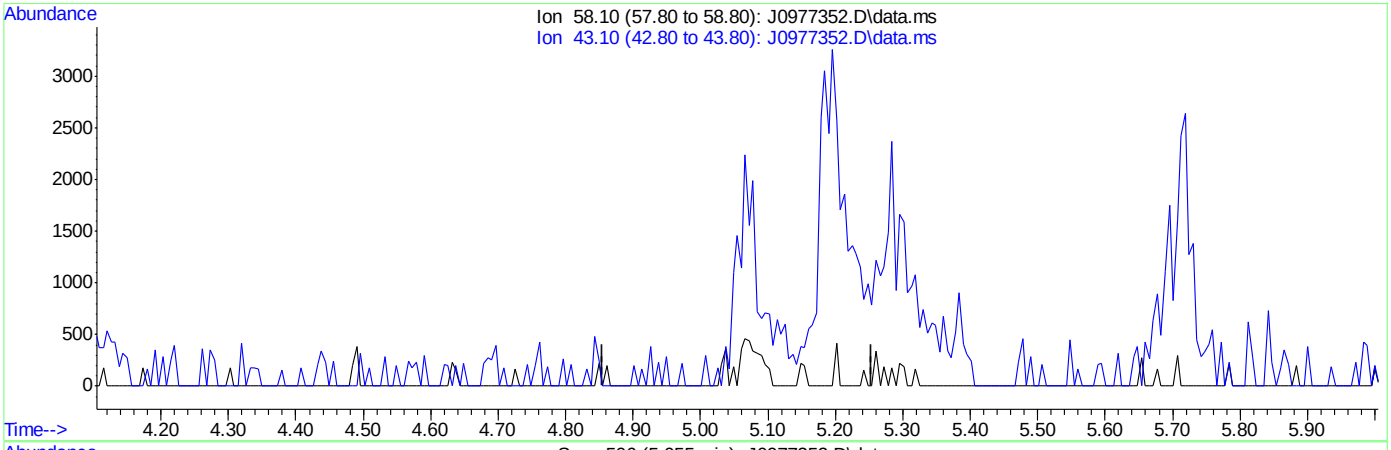
Ion	Exp%	Act%
59.10	100	100
45.10	60.20	15.37#
74.10	52.50	16.21#
0.00	0.00	0.00

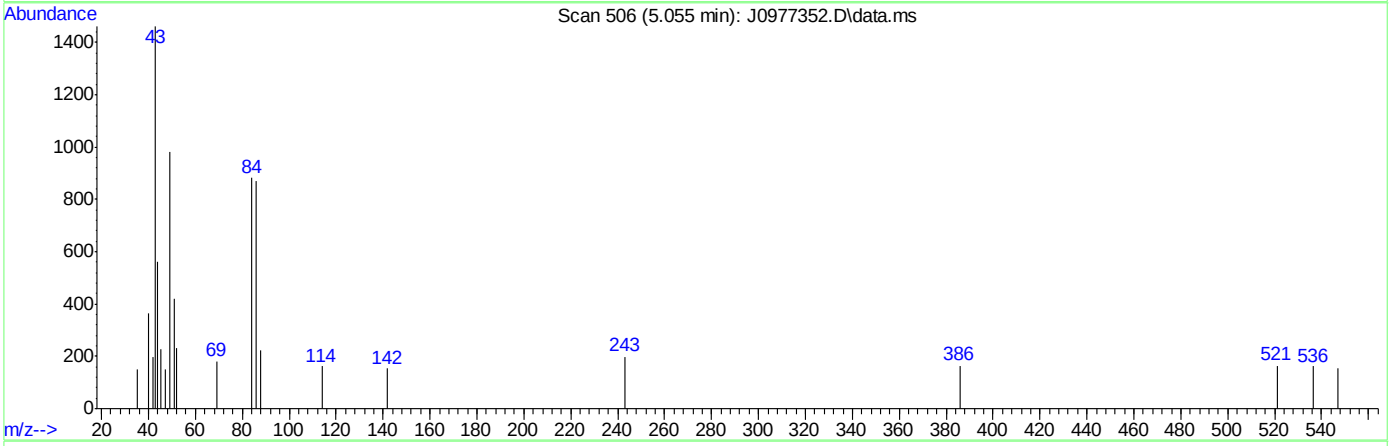
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(17) Acetone

5.055min (-5.055) 0.00ug/L

response 0

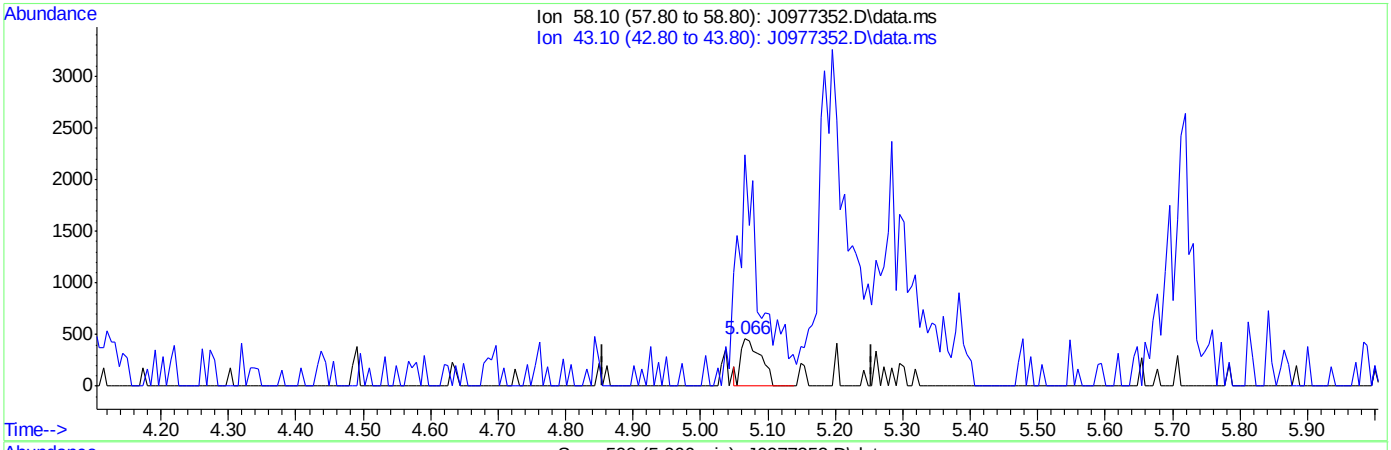
Ion	Exp%	Act%
58.10	100	0.00
43.10	334.40	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

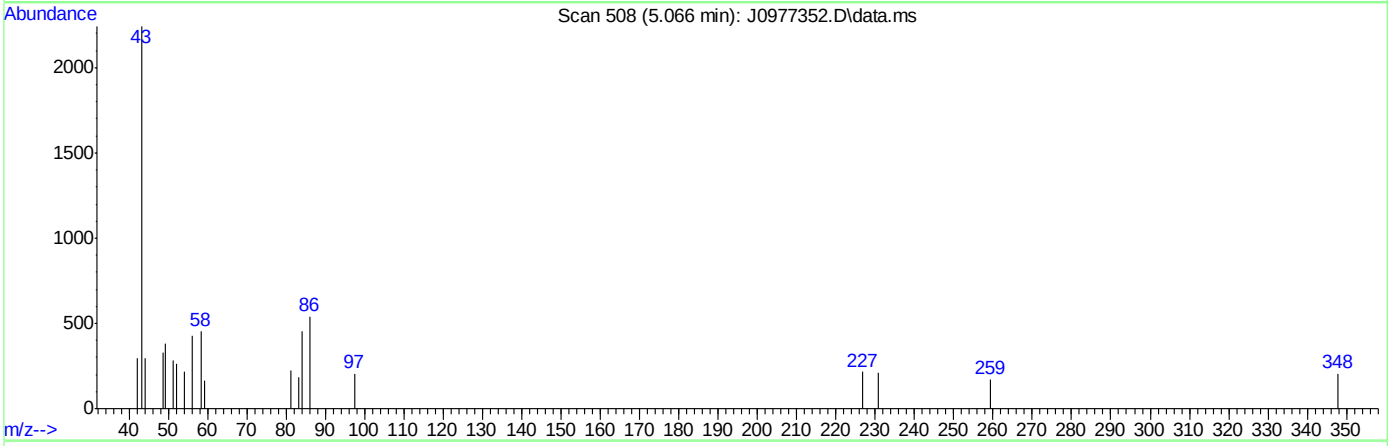
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(17) Acetone

5.066min (+0.011) 4.67ug/L m

response 912

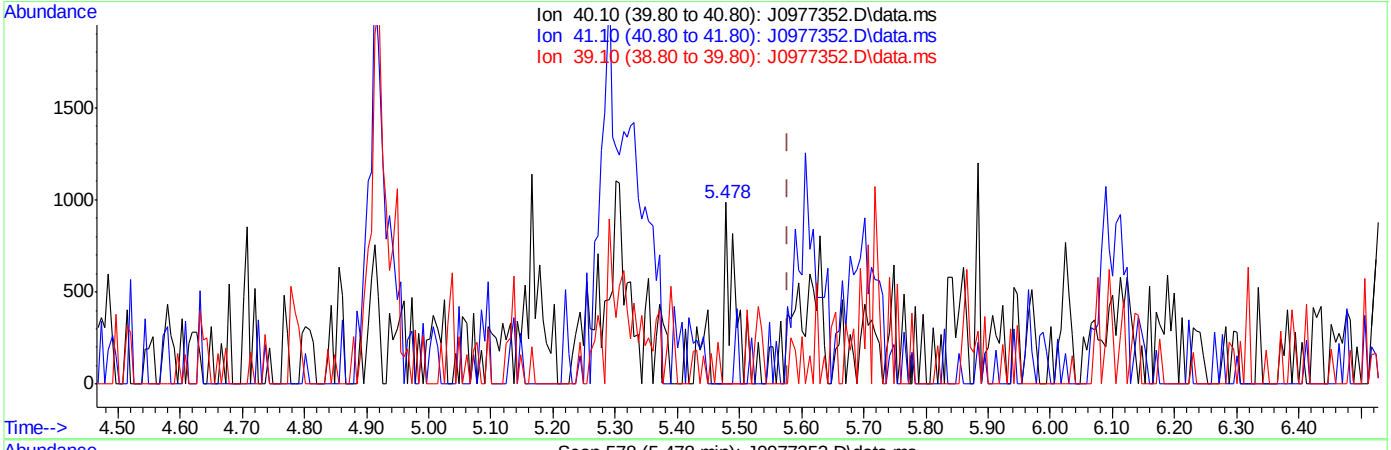
Ion	Exp%	Act%
58.10	100	100
43.10	334.40	492.75#
0.00	0.00	0.00
0.00	0.00	0.00

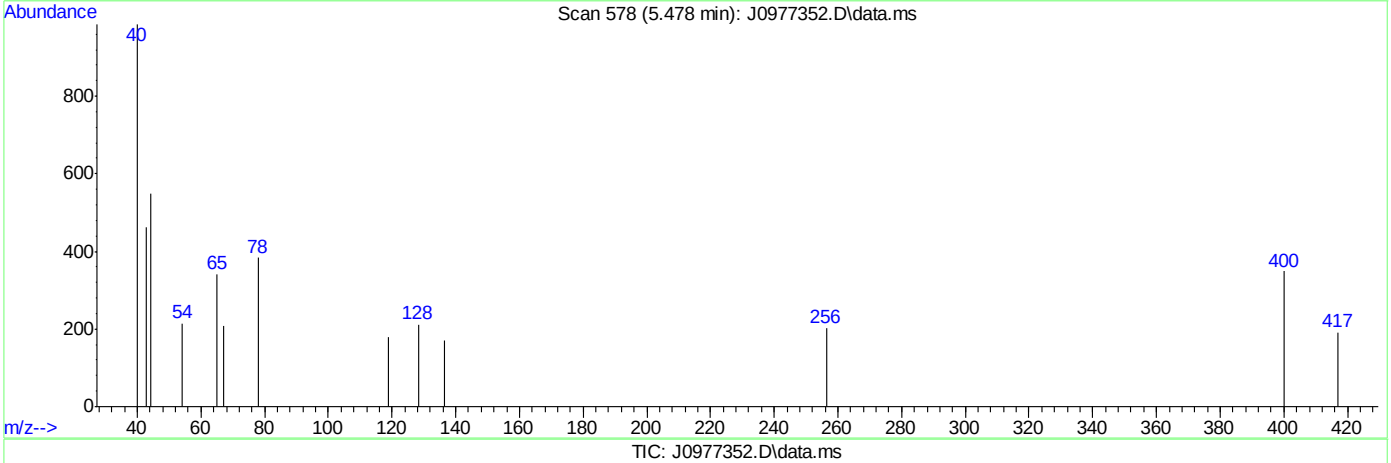
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(22) Acetonitrile

5.478min (-0.100) 8.28ug/L

response 1089

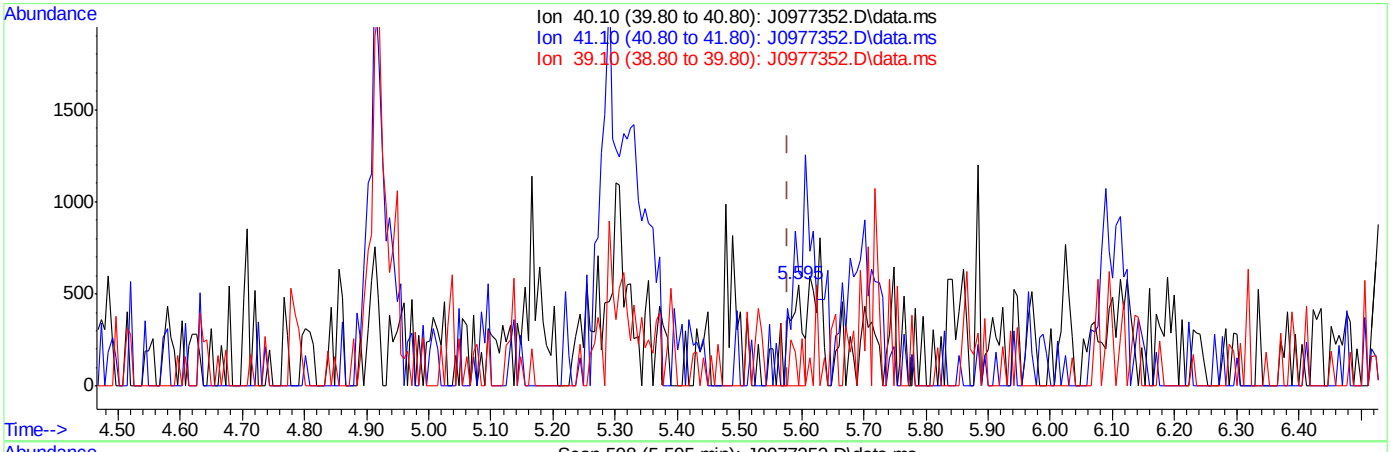
Ion	Exp%	Act%
40.10	100	100
41.10	184.40	0.00#
39.10	30.10	0.00#
0.00	0.00	0.00

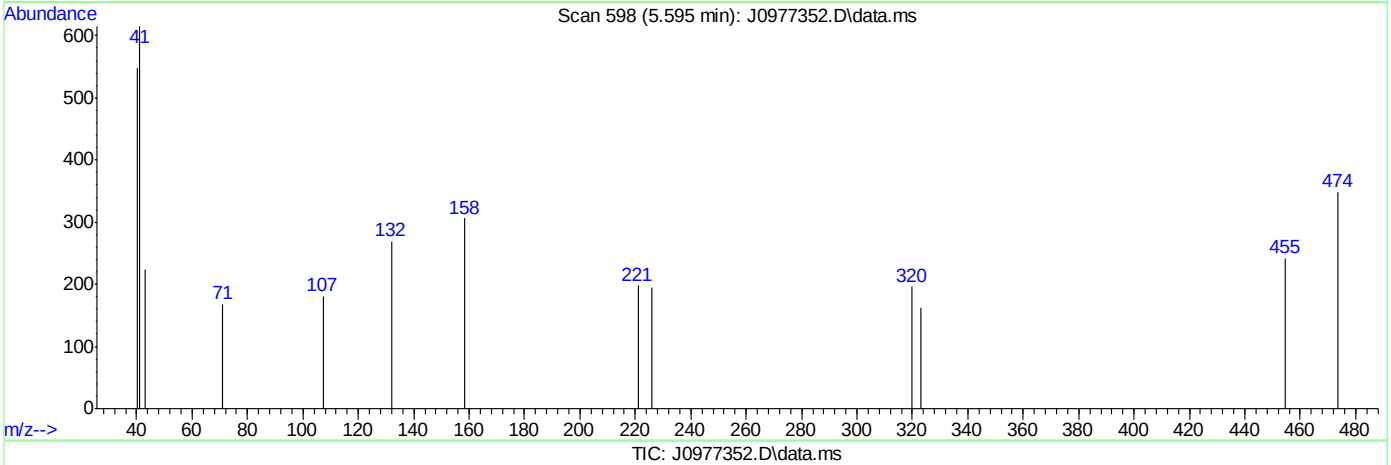
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977352.D\data.ms

(22) Acetonitrile

5.595min (+0.017) 6.00ug/L m

response 788

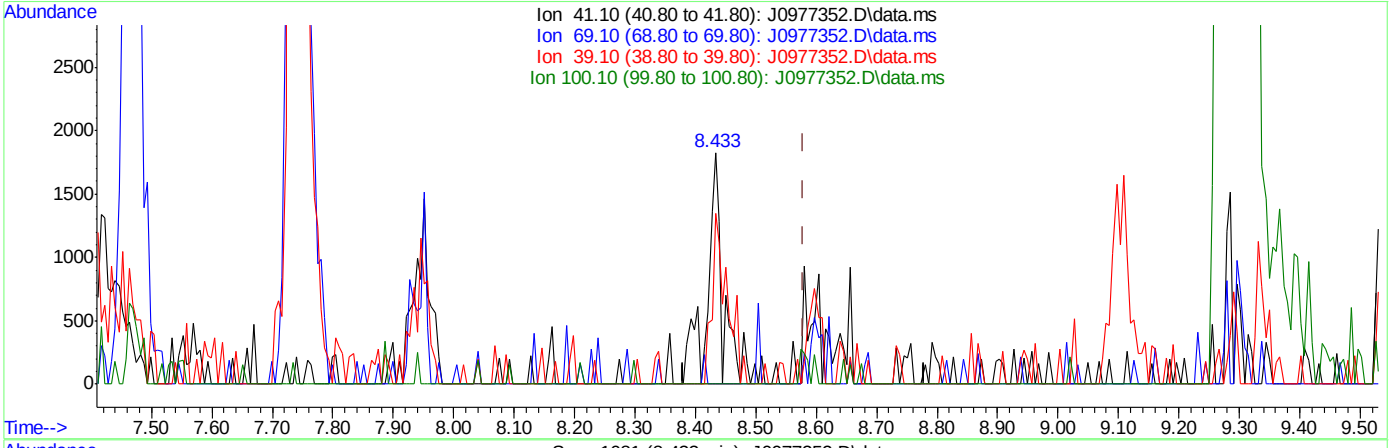
Ion	Exp%	Act%
40.10	100	100
41.10	184.40	112.02#
39.10	30.10	0.00#
0.00	0.00	0.00

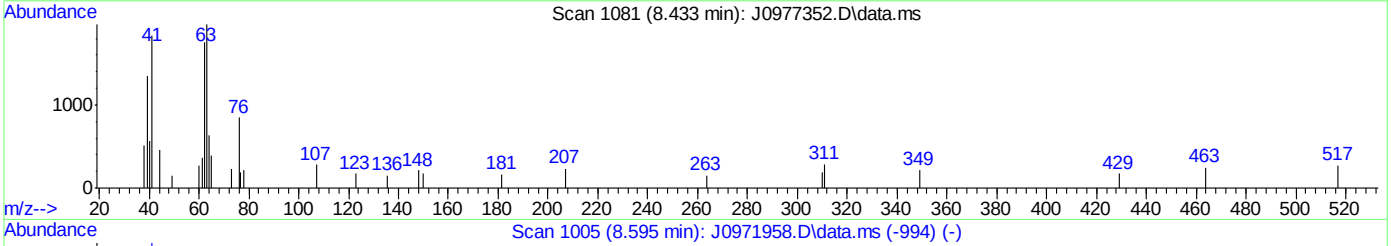
SGS ACCUTEST FA34821

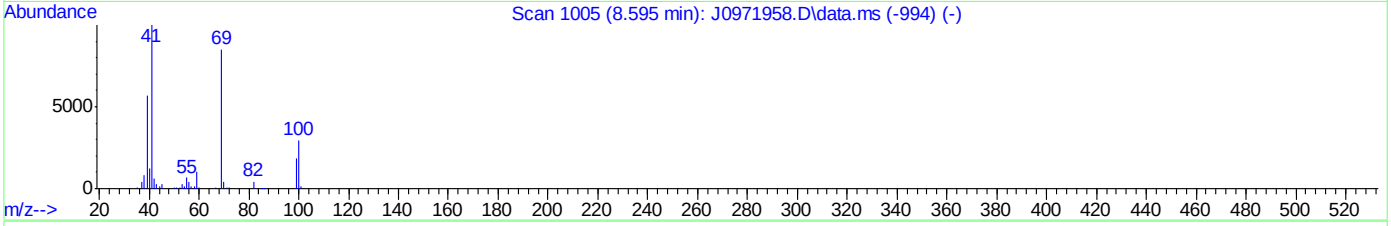
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(53) Methyl methacrylate

8.433min (-0.147) 1.19ug/L

response 2502

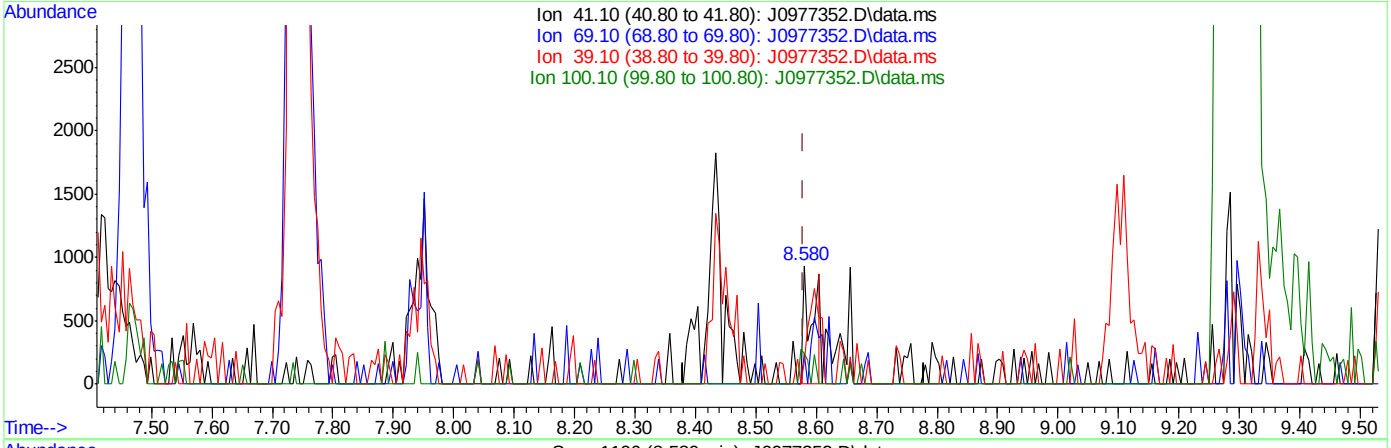
Ion	Exp%	Act%
41.10	100	100
69.10	73.50	0.00#
39.10	56.40	73.80
100.10	27.10	0.00#

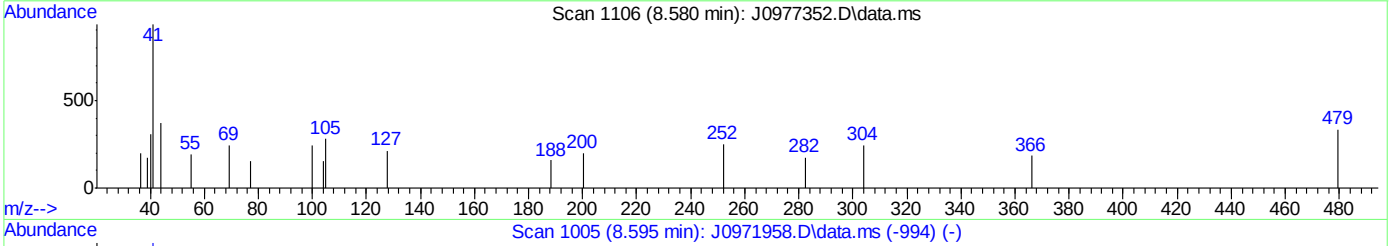
SGS ACCUTEST FA34821

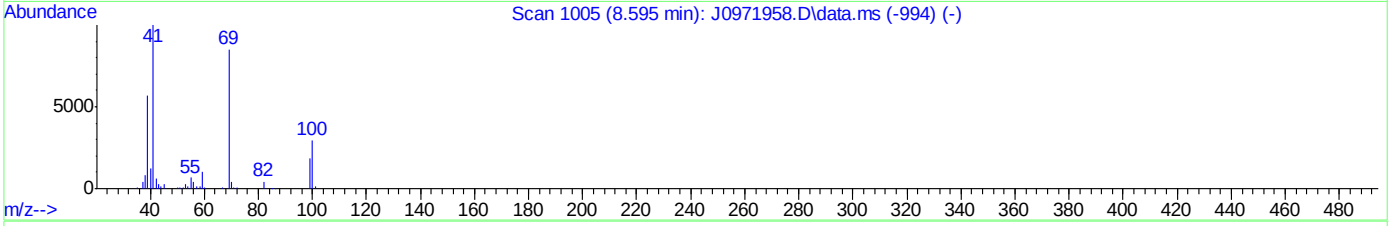
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(53) Methyl methacrylate

8.580min (-0.000) 0.52ug/L m

response 1092

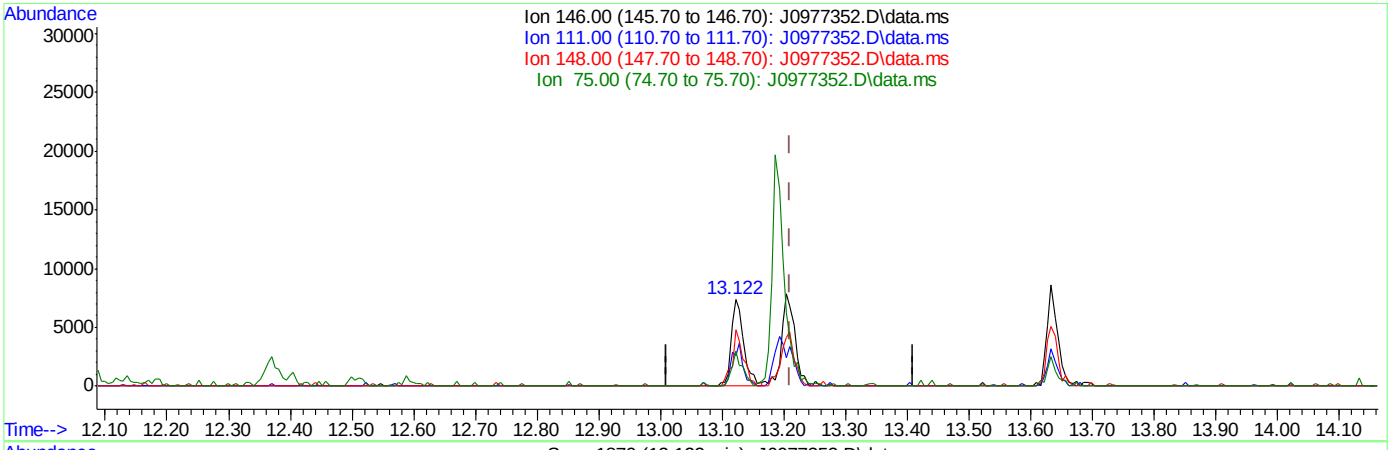
Ion	Exp%	Act%
41.10	100	100
69.10	73.50	26.31#
39.10	56.40	18.82#
100.10	27.10	26.10

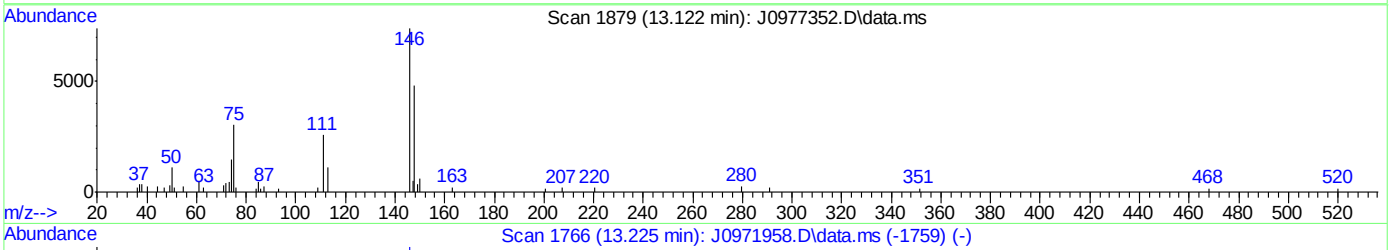
SGS ACCUTEST FA34821

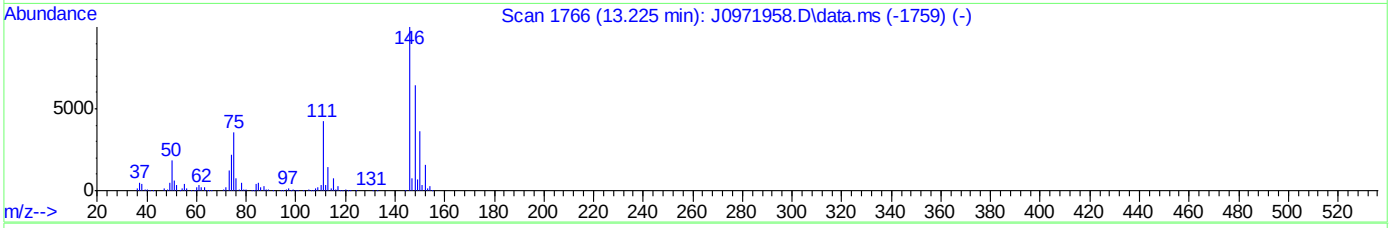
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(97) 1,4-Dichlorobenzene

13.122min (-0.088) 1.43ug/L

response 10394

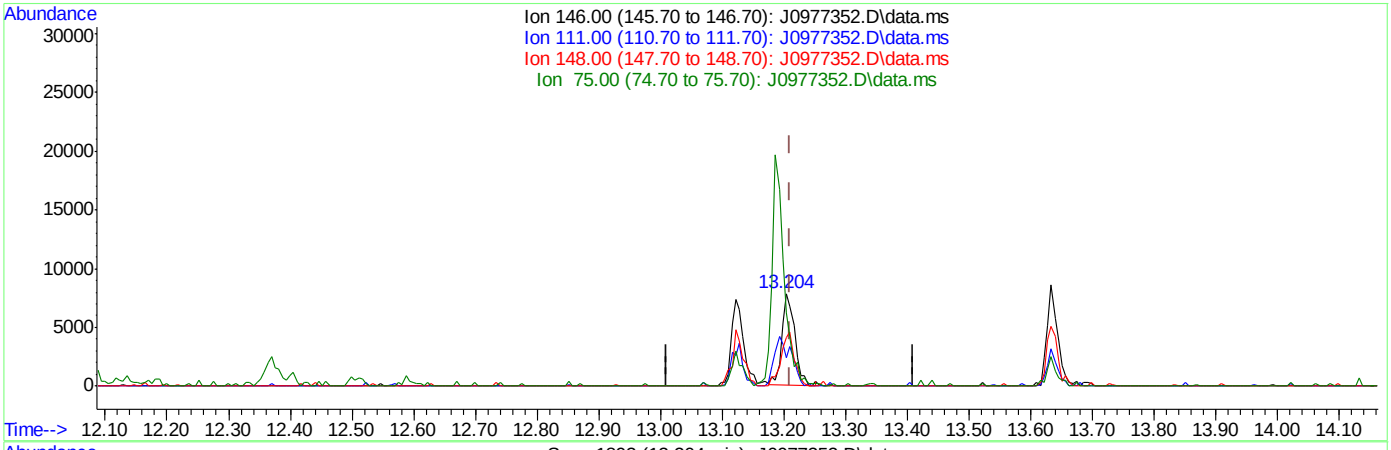
Ion	Exp%	Act%
146.00	100	100
111.00	38.20	34.68
148.00	60.20	64.90
75.00	33.00	40.82

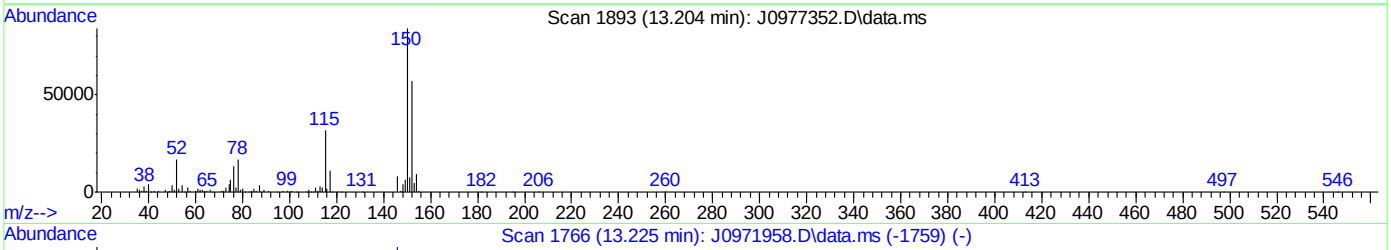
SGS ACCUTEST FA34821

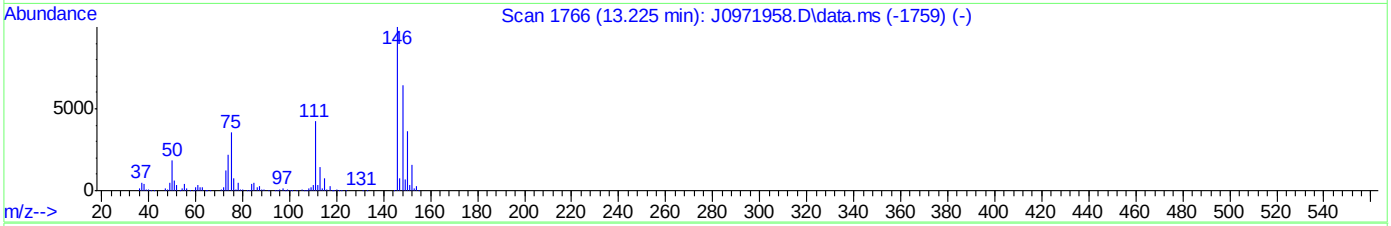
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(97) 1,4-Dichlorobenzene

13.204min (-0.006) 1.56ug/L m

response 11318

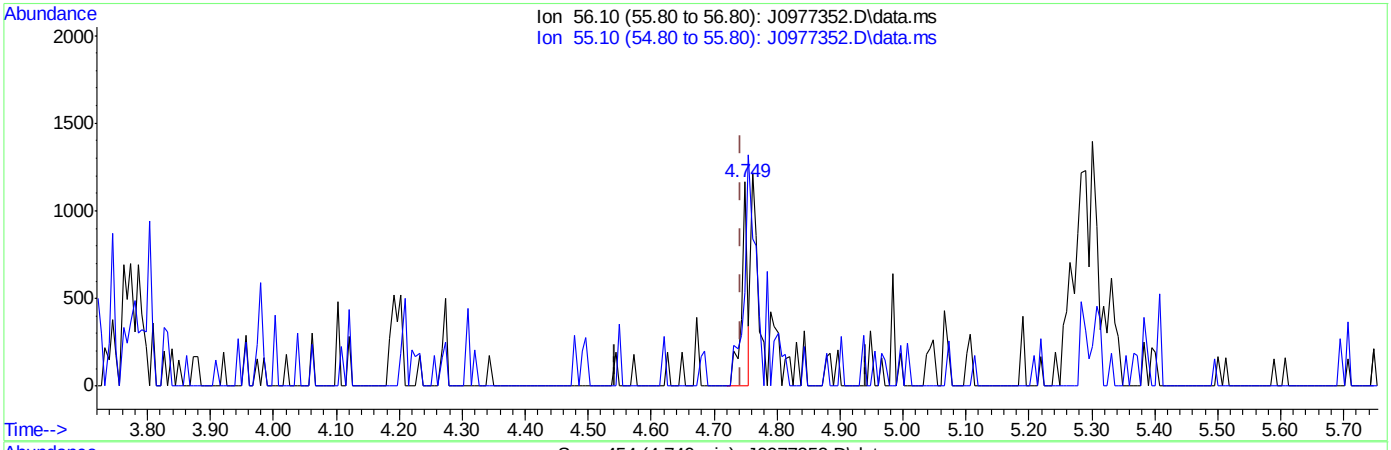
Ion	Exp%	Act%
146.00	100	100
111.00	38.20	30.50
148.00	60.20	52.36
75.00	33.00	79.68#

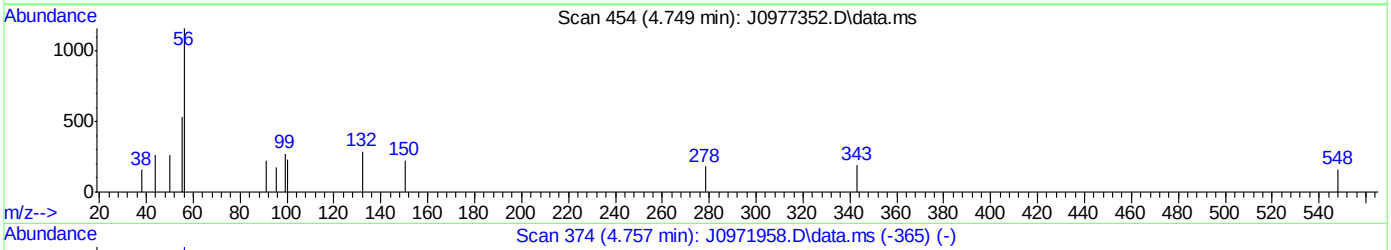
SGS ACCUTEST FA34821

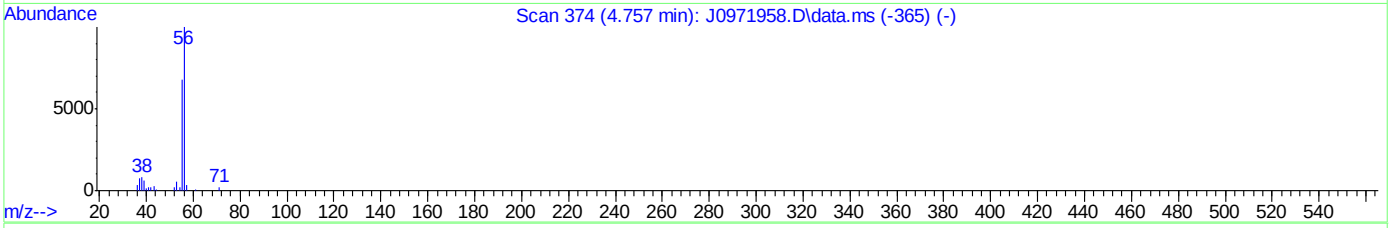
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(108) acrolein

4.749min (+0.006) 2.09ug/L

response 790

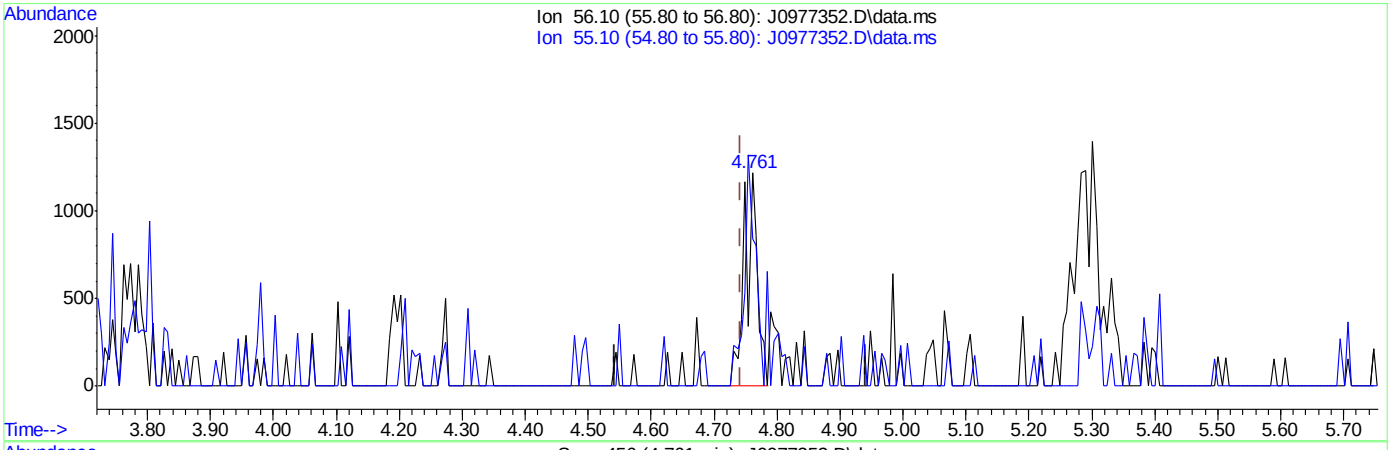
Ion	Exp%	Act%
56.10	100	100
55.10	55.10	45.66
0.00	0.00	0.00
0.00	0.00	0.00

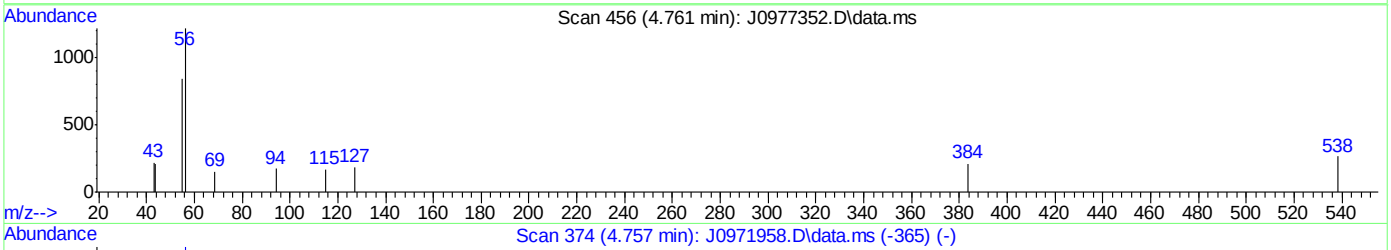
SGS ACCUTEST FA34821

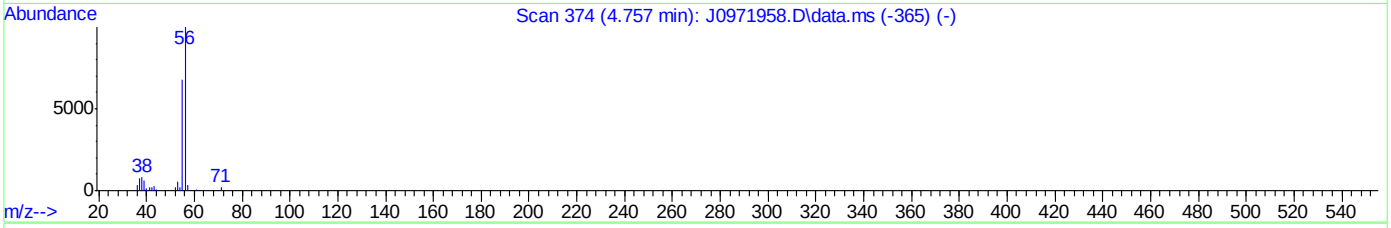
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(108) acrolein

4.761min (+0.018) 4.55ug/L m

response 1719

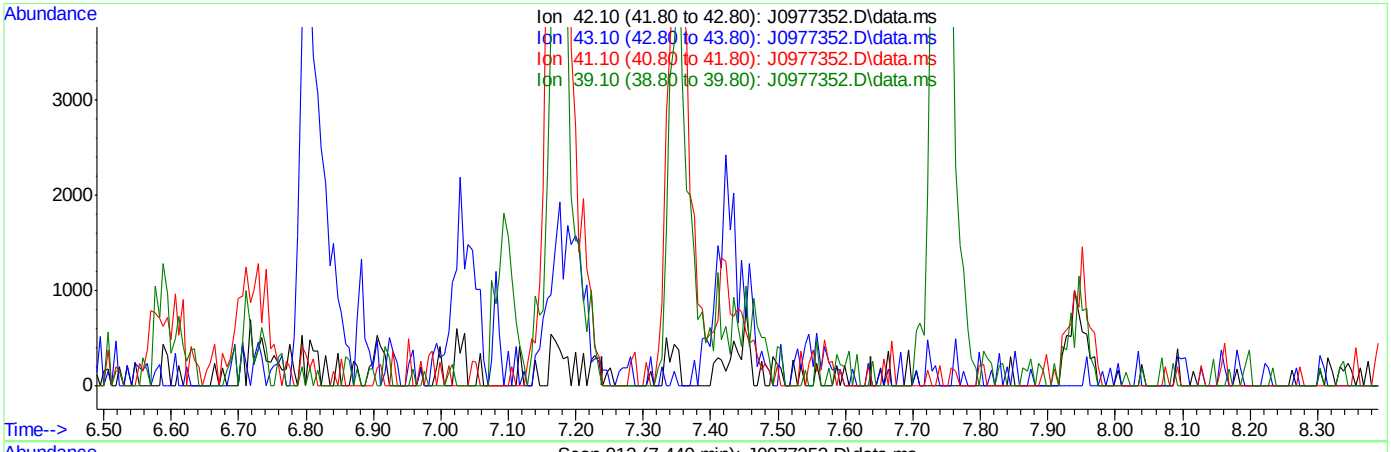
Ion	Exp%	Act%
56.10	100	100
55.10	55.10	69.36
0.00	0.00	0.00
0.00	0.00	0.00

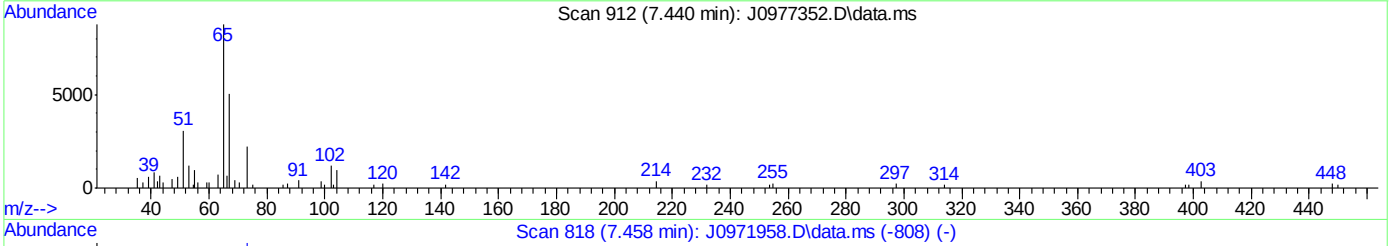
SGS ACCUTEST FA34821

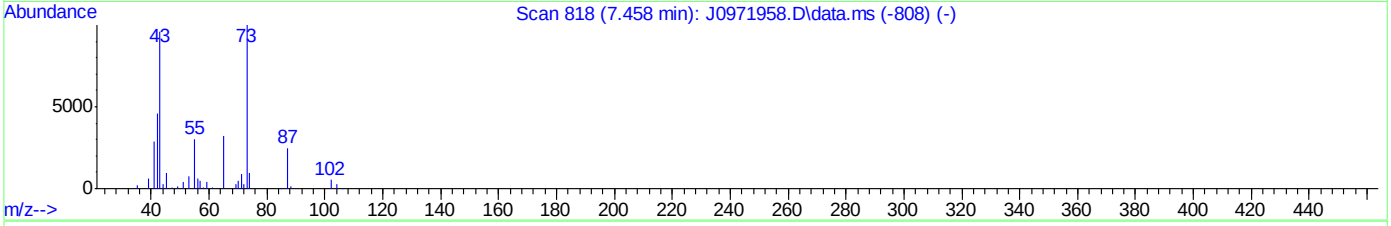
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(111) Isobutyl alcohol

7.440min (-7.440) 0.00ug/L

response 0

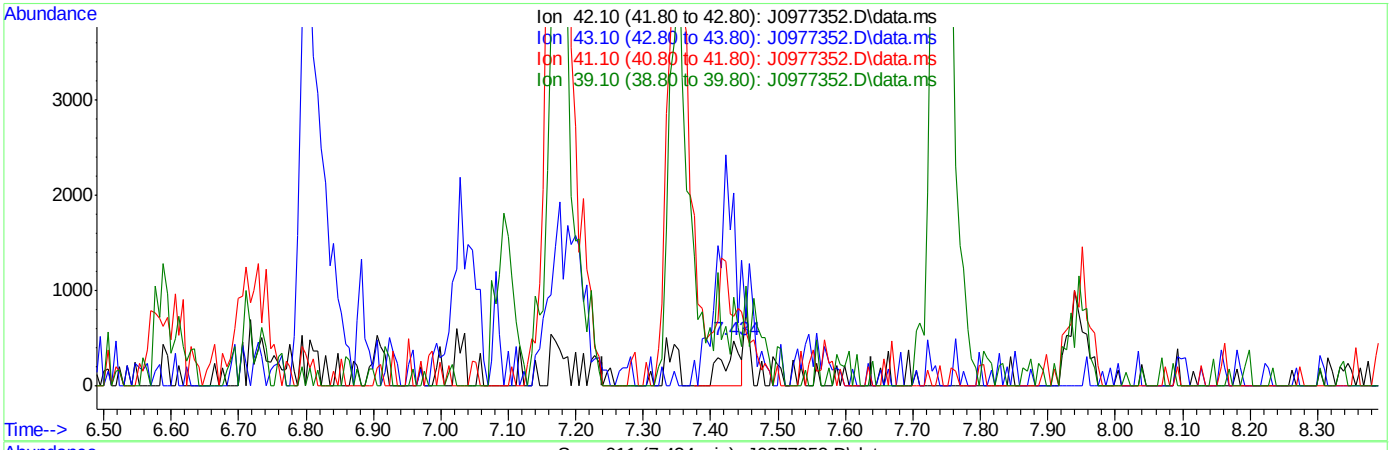
Ion	Exp%	Act%
42.10	100	0.00
43.10	231.90	0.00#
41.10	122.40	0.00#
39.10	52.60	0.00#

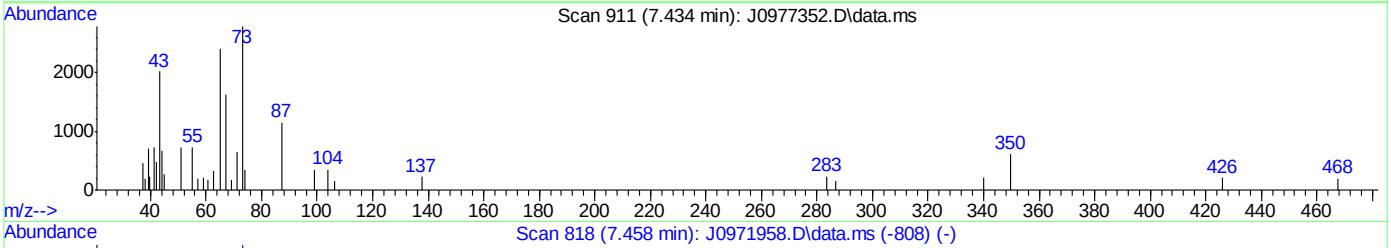
SGS ACCUTEST FA34821

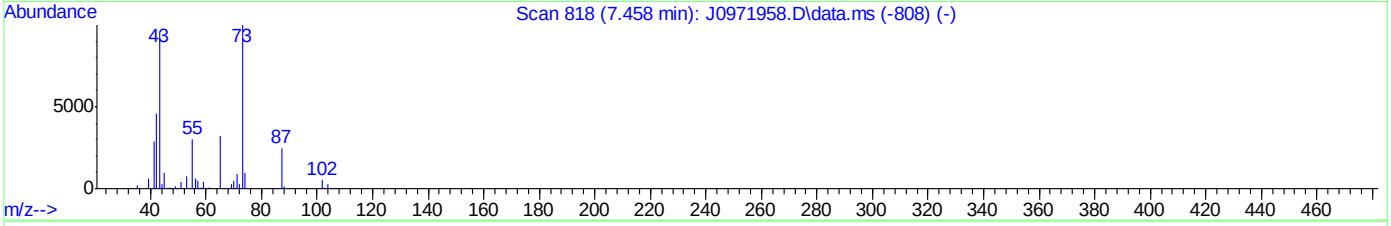
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977352.D
Acq On : 21 Jun 2016 8:38 am
Operator : darshnap
Sample : ic5340-1 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 10:48:12 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration







TIC: J0977352.D\data.ms

(111) Isobutyl alcohol

7.434min (-0.006) 13.47ug/L m

response 818

Ion	Exp%	Act%
42.10	100	100
43.10	231.90	425.74#
41.10	122.40	153.16#
39.10	52.60	149.16#

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:53:28 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	510460	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	360115	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	195883	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	39837	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	133603	51.66	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.32%			
46) 1,2-Dichloroethane-d4	7.469	65	206421	58.43	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 116.86%			
57) Toluene-d8	9.285	98	497863	52.57	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.14%			
79) 4-Bromofluorobenzene	12.041	95	188999	50.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	18941m	6.64	ug/L	
3) Chloromethane	2.881	50	21805	6.66	ug/L	81
4) Vinyl Chloride	3.016	62	19714	6.70	ug/L	87
5) 1,3-Butadiene	3.033	54	12891	5.44	ug/L #	85
6) Bromomethane	3.445	94	17815	7.66	ug/L	96
7) Chloroethane	3.597	64	12725	6.65	ug/L	85
8) Trichlorofluoromethane	3.803	101	34111	7.28	ug/L	90
9) Ethyl Ether	4.103	59	11513	5.55	ug/L	88
10) 1,2-Dichlorotrifluoroe...	4.332	67	15847	5.97	ug/L #	74
11) 1,1-Dichloroethene	4.391	61	20864	5.86	ug/L	81
12) Freon 113	4.443	101	12794	5.94	ug/L	88
13) Carbon Disulfide	4.461	76	41901	5.71	ug/L	70
14) Iodomethane	4.573	142	20868	5.51	ug/L	97
15) Allyl chloride	4.925	41	17140	4.61	ug/L	87
16) Methylene Chloride	5.031	49	22254	6.16	ug/L	86
17) Acetone	5.060	58	4940	30.19	ug/L	97
18) Methyl acetate	5.172	74	7700	27.25	ug/L #	54
19) trans-1,2-Dichloroethene	5.225	61	17825	5.22	ug/L	86
20) Hexane	5.278	56	12040	5.75	ug/L #	76
21) Methyl Tert Butyl Ether	5.325	73	41310	5.71	ug/L	90
22) Acetonitrile	5.589	40	7000	63.22	ug/L #	34
23) Di-isopropyl ether	5.701	45	51919	5.89	ug/L	96
24) Chloroprene	5.865	53	21001	4.71	ug/L	85
25) 1,1-Dichloroethane	5.889	63	27089	5.90	ug/L	99
26) Acrylonitrile	5.918	53	19824	28.16	ug/L	81
27) ETBE	6.106	59	53509	5.77	ug/L	96
28) Vinyl acetate	6.094	43	142052	27.15	ug/L	90
29) cis-1,2-Dichloroethene	6.465	96	13935	4.71	ug/L	90
30) 2,2-Dichloropropane	6.588	77	20387	5.07	ug/L	82
31) Bromochloromethane	6.670	128	7318	5.66	ug/L	85
32) Cyclohexane	6.723	56	23763	5.82	ug/L #	87
33) Chloroform	6.729	83	28261	5.45	ug/L	91
34) Ethyl acetate	6.794	43	54102	29.97	ug/L	99

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:53:28 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	4339	8.73 ug/L	80
37) Carbon Tetrachloride	6.923	117	20794	5.79 ug/L	77
38) 1,1,1-Trichloroethane	6.982	97	23865	5.33 ug/L	97
39) 2-Butanone	7.011	43	20263	28.35 ug/L	73
40) 1,1-Dichloropropene	7.093	75	17705	5.14 ug/L	92
41) tert-Butyl Formate	7.170	59	73788	34.56 ug/L #	60
42) Propionitrile	7.322	54	13091	50.43 ug/L #	65
43) Methacrylonitrile	7.346	41	62909	54.70 ug/L	95
44) Benzene	7.346	78	52584	5.76 ug/L	92
45) TAME	7.416	73	42286	5.62 ug/L	87
47) 1,2-Dichloroethane	7.534	62	25464	6.23 ug/L	92
48) Trichloroethene	7.922	95	13145	5.03 ug/L	94
49) Methylcyclohexane	7.939	83	23428	5.70 ug/L #	78
50) Dibromomethane	8.351	93	7480	4.95 ug/L	97
51) 1,2-Dichloropropane	8.433	63	13207	5.12 ug/L	89
52) Bromodichloromethane	8.480	83	21204	6.01 ug/L #	86
53) Methyl methacrylate	8.580	41	9144	5.19 ug/L	83
54) 2-Chloroethyl vinyl ether	8.997	63	34326	23.14 ug/L	96
55) cis-1,3-Dichloropropene	9.097	75	23607	5.73 ug/L	89
58) Toluene	9.344	91	57623	5.35 ug/L	95
59) 2-Nitropropane	9.543	41	16501	30.78 ug/L	84
60) 4-Methyl-2-pentanone	9.661	43	41971	23.59 ug/L	92
61) trans-1,3-Dichloropropene	9.726	75	18180	5.33 ug/L	88
62) Tetrachloroethene	9.737	166	13665	5.65 ug/L	83
63) Ethyl methacrylate	9.825	69	12651	4.59 ug/L	95
64) 1,1,2-Trichloroethane	9.890	83	11004	6.14 ug/L	94
65) Dibromochloromethane	10.084	129	14128	5.69 ug/L	95
66) 1,3-Dichloropropane	10.166	76	22151	6.02 ug/L	96
67) 1,2-Dibromoethane	10.354	107	13252	6.45 ug/L	96
68) 2-hexanone	10.484	43	26306	21.63 ug/L	97
69) 1-Chlorohexane	10.777	91	18217	5.43 ug/L	87
70) Ethylbenzene	10.848	91	66529	5.37 ug/L	98
71) Chlorobenzene	10.854	112	39577	6.13 ug/L	87
72) 1,1,1,2-Tetrachloroethane	10.901	131	12327	4.89 ug/L	90
73) m,p-Xylene	10.983	91	106522	11.15 ug/L	98
74) o-Xylene	11.424	91	55235	5.41 ug/L	92
75) Styrene	11.477	104	42242	5.51 ug/L	98
76) Bromoform	11.535	173	7623	5.09 ug/L	83
77) Isopropylbenzene	11.729	105	64340	5.55 ug/L	96
80) cis-1,4-Dichloro-2-butene	12.076	53	4910	5.63 ug/L #	80
81) n-Propylbenzene	12.146	91	76577	5.33 ug/L	92
82) Bromobenzene	12.170	156	16861	5.31 ug/L	96
83) 1,1,2,2-Tetrachloroethane	12.211	83	15420	5.83 ug/L	86
84) 1,3,5-Trimethylbenzene	12.328	105	53086	4.96 ug/L	96
85) 2-Chlorotoluene	12.334	91	55240	5.35 ug/L	93
86) trans-1,4-Dichloro-2-B...	12.393	53	4210	5.44 ug/L #	61
87) 1,2,3-Trichloropropane	12.370	110	4719	6.26 ug/L	93
88) Cyclohexanone	12.428	55	1466	22.43 ug/L #	80
89) 4-Chlorotoluene	12.505	91	52713	5.57 ug/L	84
90) a-Methyl Styrene	12.599	118	25062	4.37 ug/L	98

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:53:28 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.675	91	34071	5.62	ug/L		89
92)	1,2,4-Trimethylbenzene	12.740	105	58642	5.26	ug/L		89
93)	Pentachloroethane	12.722	167	8345	4.20	ug/L	#	87
94)	sec-Butylbenzene	12.857	105	67929	5.38	ug/L		95
95)	4-Isopropyltoluene	12.987	119	58156	5.37	ug/L		97
96)	1,3-Dichlorobenzene	13.122	146	28828	5.17	ug/L		92
97)	1,4-Dichlorobenzene	13.204	146	29762	5.29	ug/L		88
98)	n-Butylbenzene	13.421	92	32443	5.18	ug/L		95
99)	Benzyl Chloride	13.433	126	4285	4.46	ug/L	#	81
100)	1,2-Dichlorobenzene	13.627	146	28198	5.37	ug/L		86
101)	1,2-Dibromo-3-Chloropr...	14.373	75	2451	5.91	ug/L		84
102)	Hexachlorobutadiene	14.914	225	11560	5.15	ug/L		83
103)	1,2,4-Trichlorobenzene	14.961	180	21144	5.30	ug/L		92
104)	Naphthalene	15.249	128	30353	4.84	ug/L		92
105)	1,2,3-Trichlorobenzene	15.413	180	15872	4.79	ug/L		97
107)	Ethanol	4.273	45	1859m	96.48	ug/L		
108)	acrolein	4.749	56	11107	31.56	ug/L		92
109)	Tert Butyl Alcohol	5.378	59	13075	62.34	ug/L		86
110)	tert Amyl alcohol	7.557	59	8587	57.15	ug/L		85
111)	Isobutyl alcohol	7.440	42	5600	99.16	ug/L	#	65
112)	1,4-Dioxane	8.674	88	2302m	139.49	ug/L		
113)	3,3-Dimethyl-1-butanol	10.425	57	32803	216.73	ug/L		95

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

7.6.2

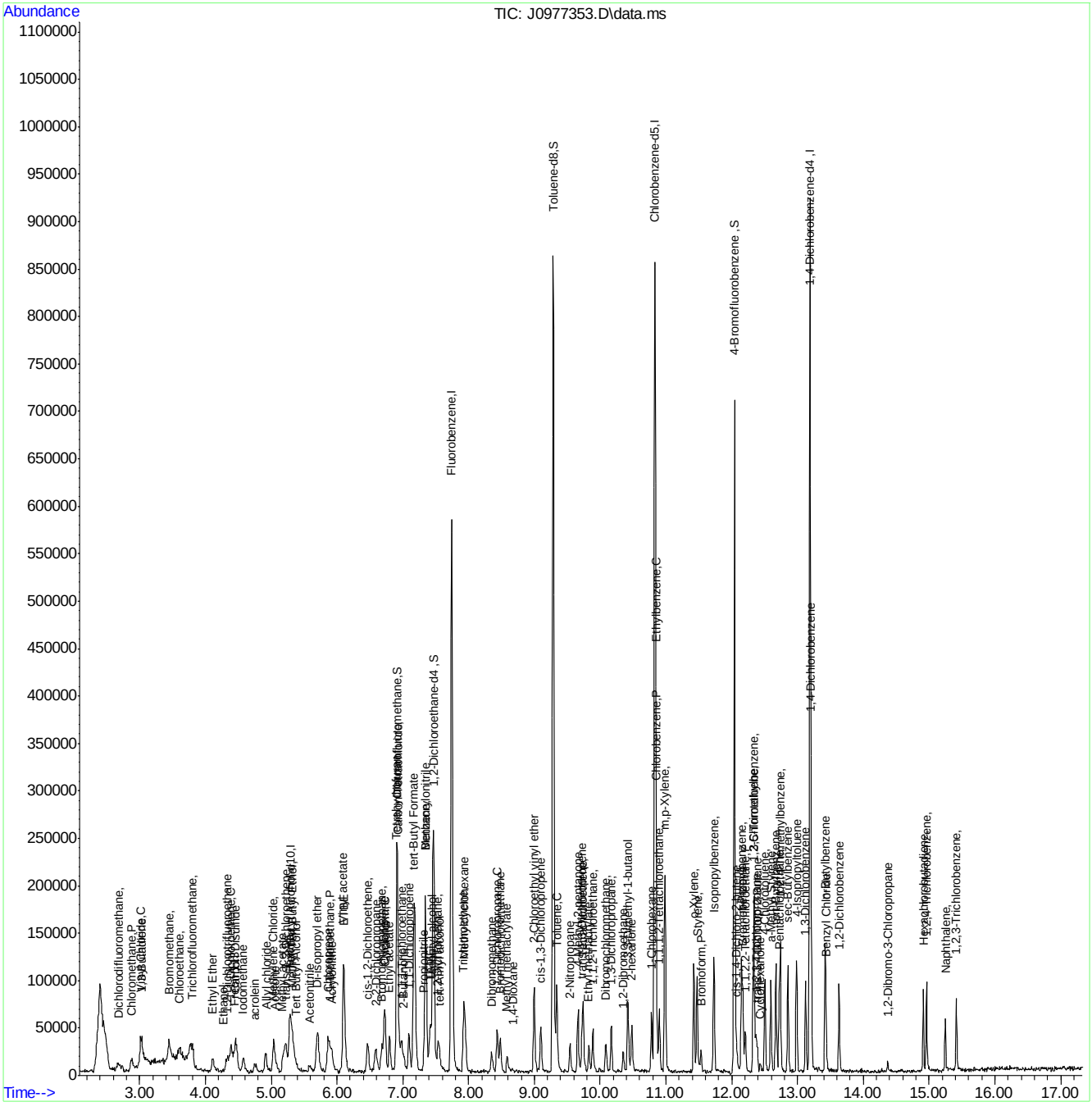
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:53:28 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

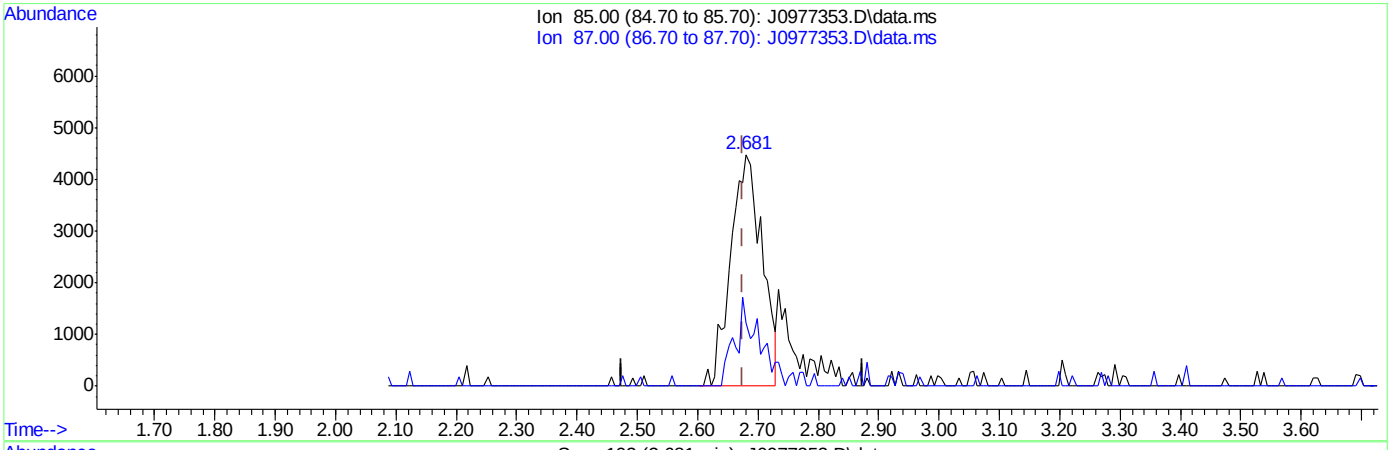
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977353.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 09:01	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

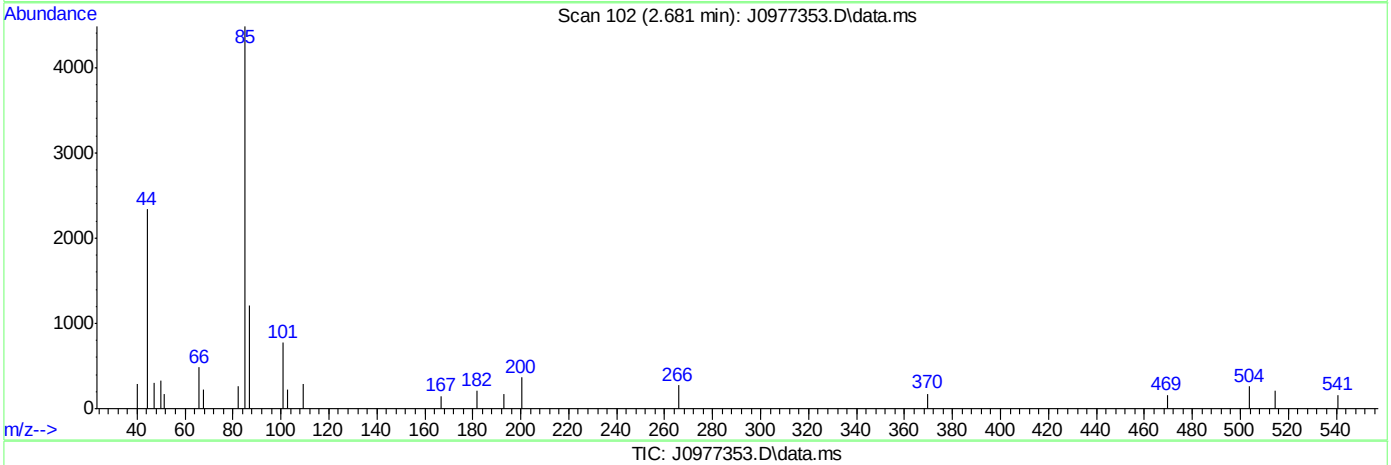
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		2.68	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
1,4-Dioxane	123-91-1		8.67	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(2) Dichlorodifluoromethane ( )

2.681min (+0.006) 5.64ug/L

response 16064

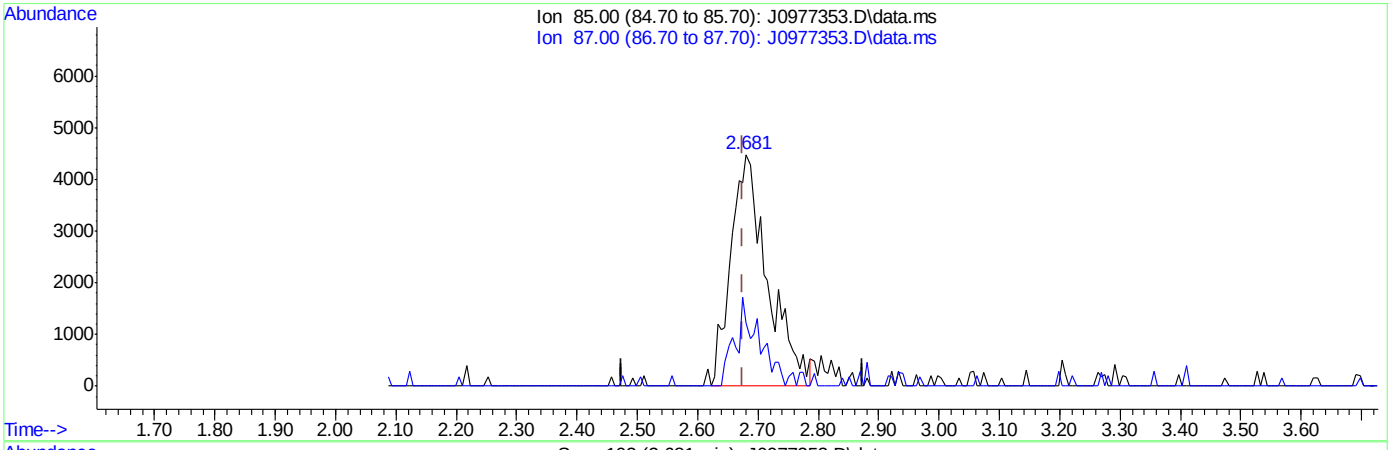
Ion	Exp%	Act%
85.00	100	100
87.00	28.80	27.09
0.00	0.00	0.00
0.00	0.00	0.00

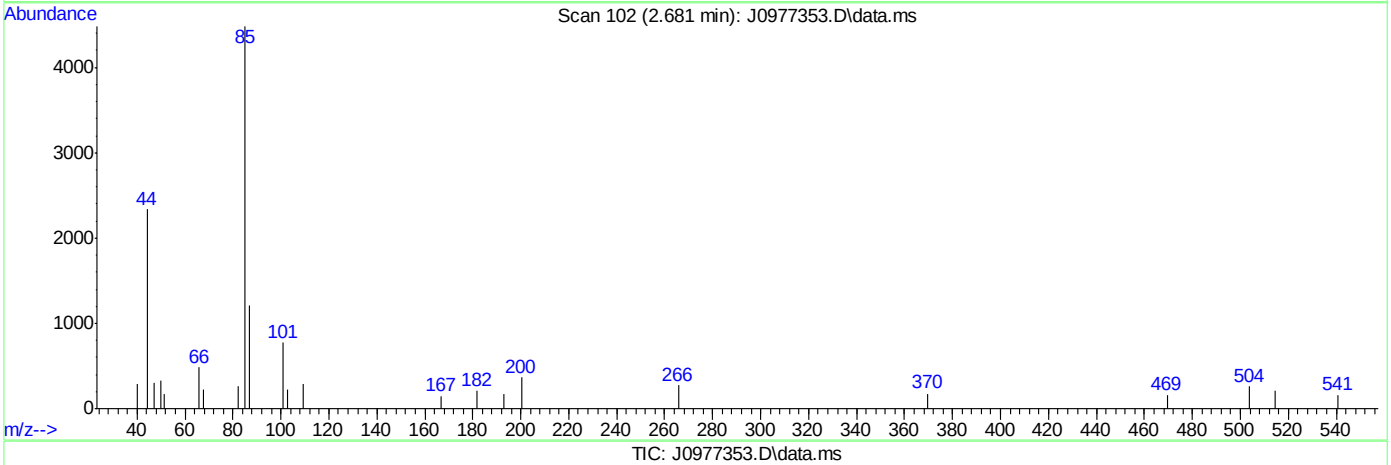
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(2) Dichlorodifluoromethane ( )

2.681min (+0.006) 6.64ug/L m

response 18941

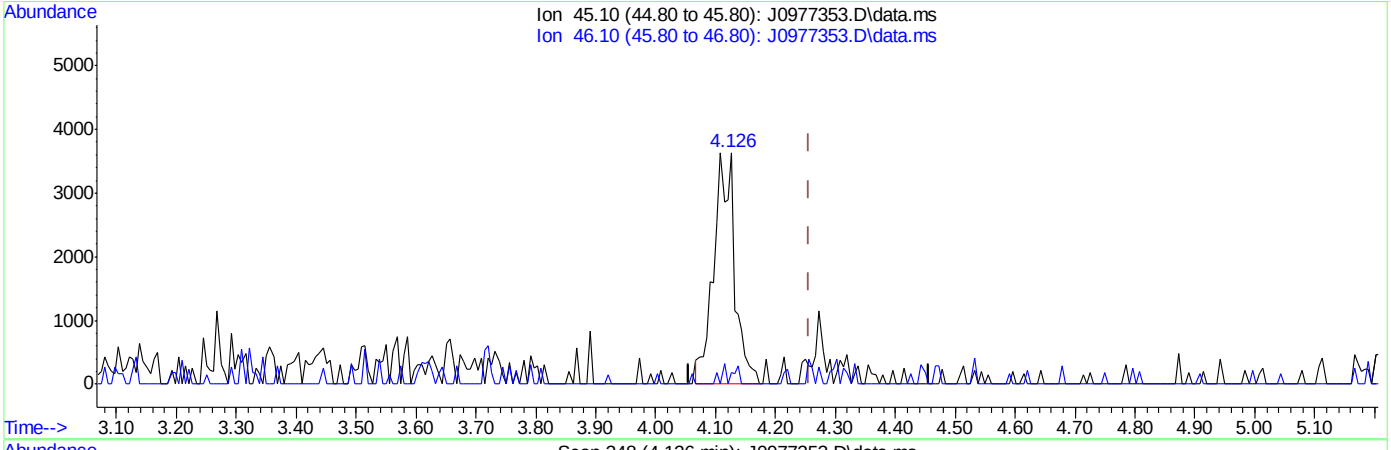
Ion	Exp%	Act%
85.00	100	100
87.00	28.80	27.09
0.00	0.00	0.00
0.00	0.00	0.00

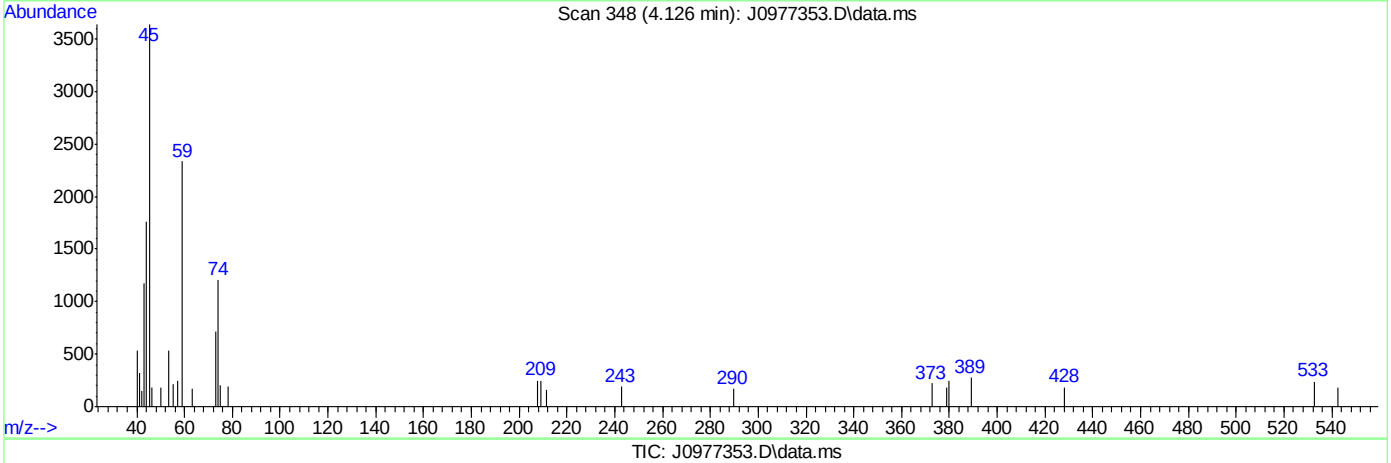
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(107) Ethanol

4.126min (-0.130) 450.44ug/L

response 8679

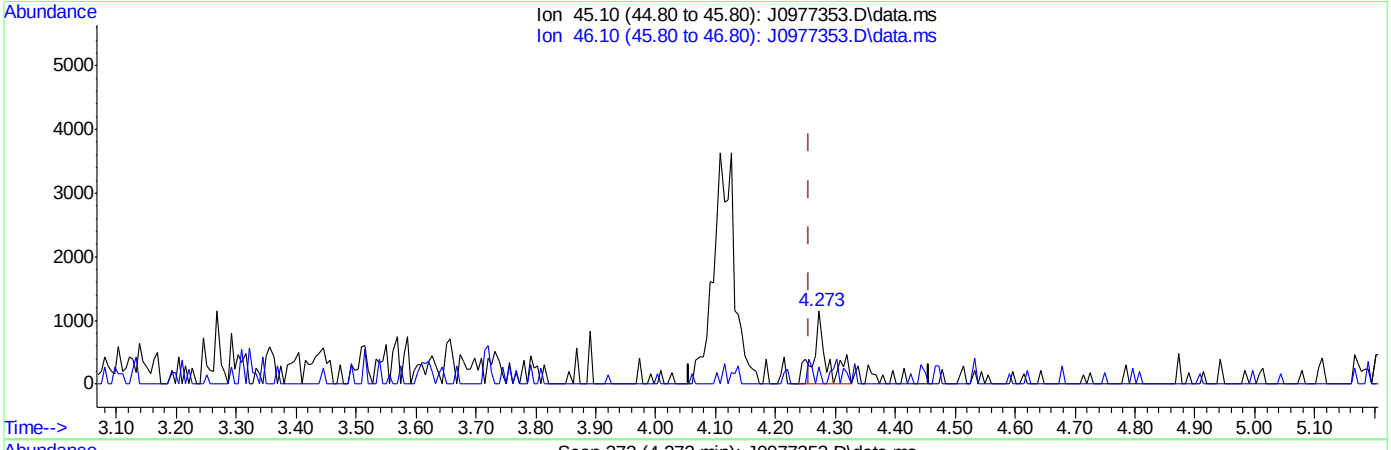
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	5.14#
0.00	0.00	0.00
0.00	0.00	0.00

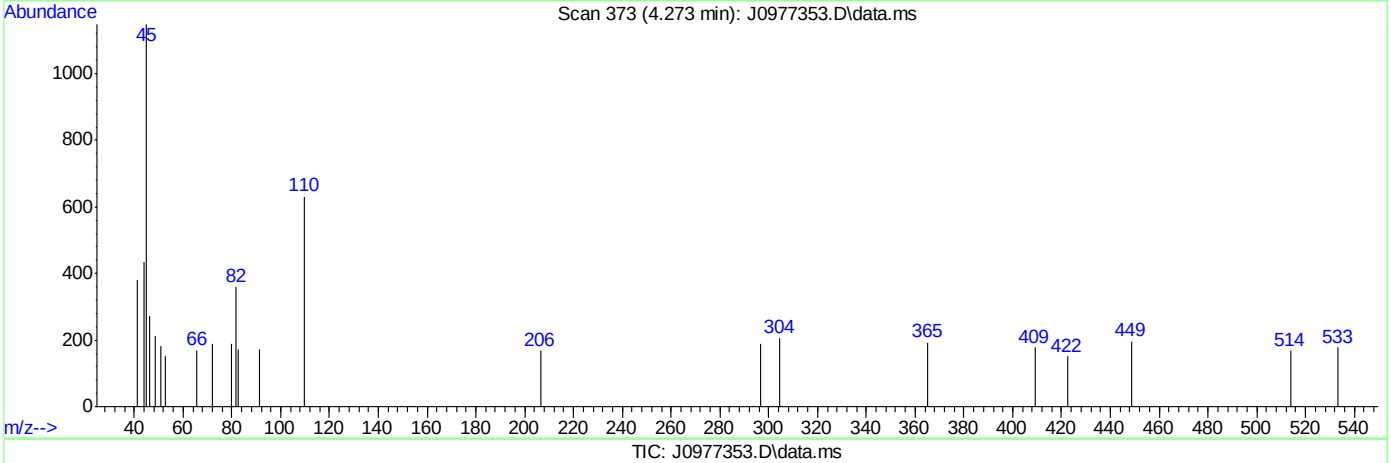
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(107) Ethanol

4.273min (+0.017) 96.48ug/L m

response 1859

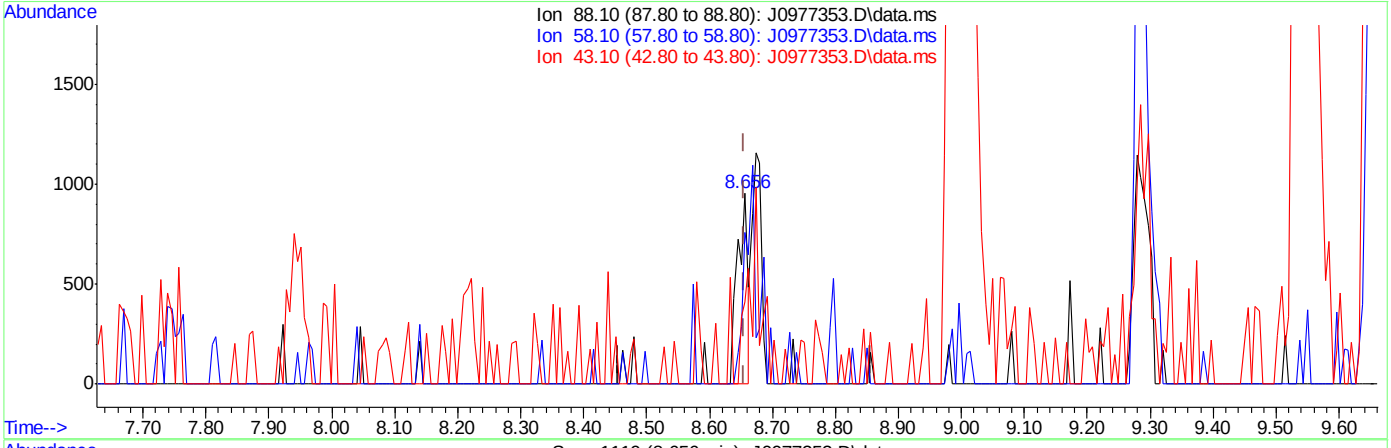
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	23.78
0.00	0.00	0.00
0.00	0.00	0.00

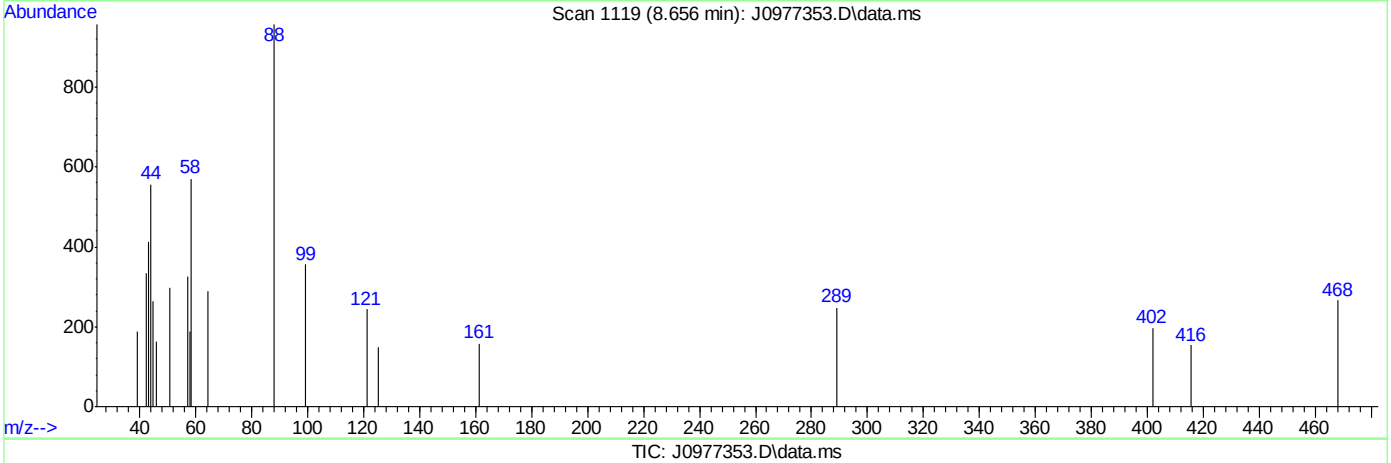
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977353.D\data.ms

(112) 1,4-Dioxane

8.656min (+0.000) 68.45ug/L

response 1124

Ion	Exp%	Act%
88.10	100	100
58.10	66.40	79.31
43.10	25.40	43.05
0.00	0.00	0.00

SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977353.D
Acq On : 21 Jun 2016 9:01 am
Operator : darshnap
Sample : ic5340-2 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 21 10:48:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
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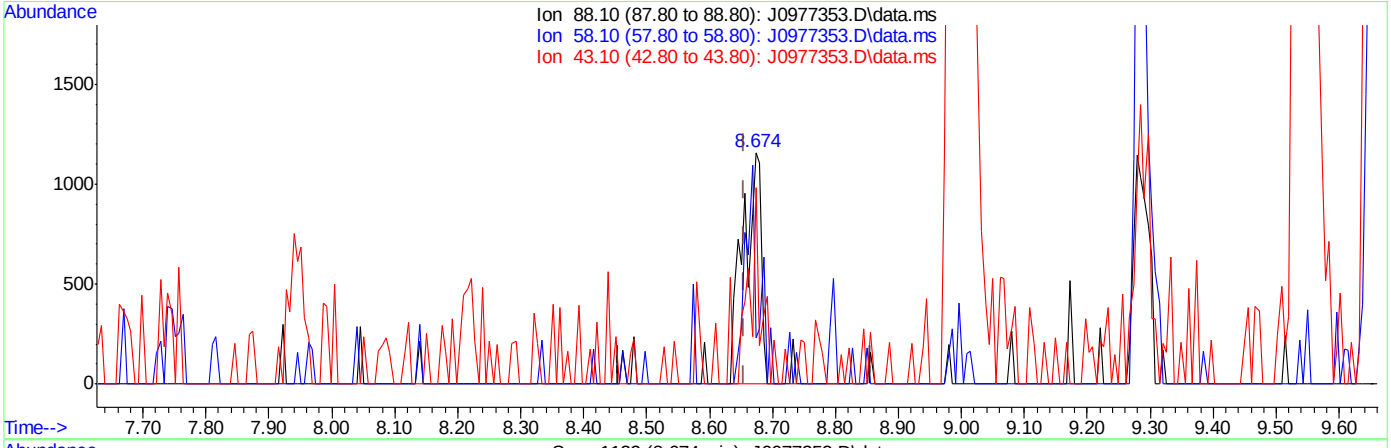
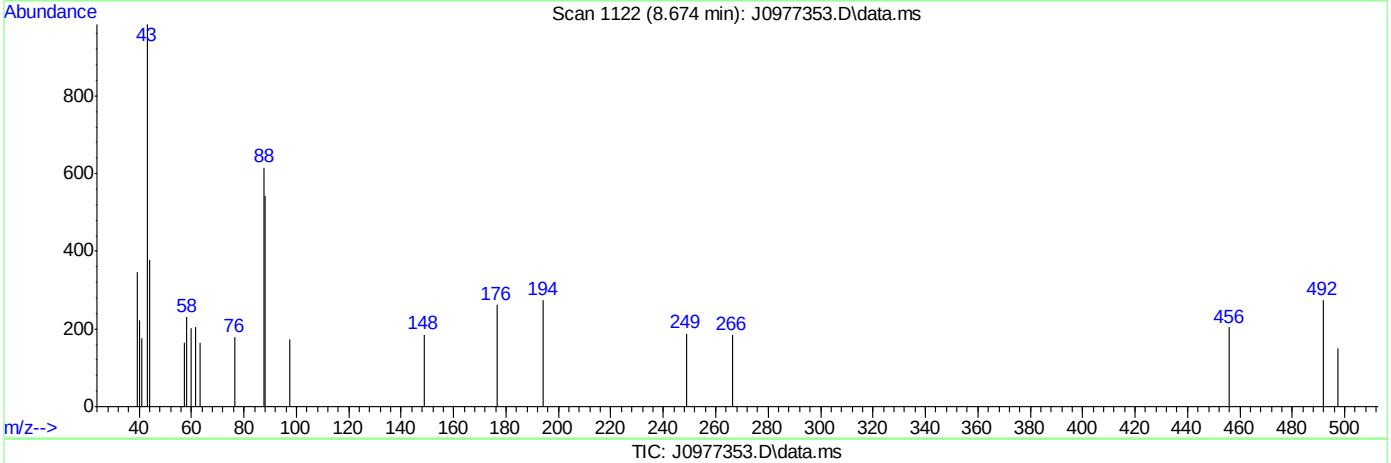




TIC: J0977353.D\data.ms

(112) 1,4-Dioxane

8.674min (+0.018) 139.49ug/L m

response 2302

Ion	Exp%	Act%
88.10	100	100
58.10	66.40	37.40
43.10	25.40	160.00#
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:54:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	502416	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	367587	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	191525	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	38805	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	135517	53.24	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.48%			
46) 1,2-Dichloroethane-d4	7.469	65	199096	57.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 114.52%			
57) Toluene-d8	9.285	98	485782	50.25	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.50%			
79) 4-Bromofluorobenzene	12.041	95	190592	52.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.687	85	35741	12.56	ug/L	75
3) Chloromethane	2.887	50	37198	11.52	ug/L	73
4) Vinyl Chloride	3.028	62	37770	12.94	ug/L	89
5) 1,3-Butadiene	3.033	54	31103	13.46	ug/L	96
6) Bromomethane	3.451	94	27856	12.17	ug/L	96
7) Chloroethane	3.597	64	20715	11.07	ug/L	89
8) Trichlorofluoromethane	3.821	101	62357	13.38	ug/L	85
9) Ethyl Ether	4.115	59	22989	11.27	ug/L #	84
10) 1,2-Dichlorotrifluoroe...	4.332	67	32707	12.52	ug/L	91
11) 1,1-Dichloroethene	4.385	61	46114	13.16	ug/L	95
12) Freon 113	4.455	101	28774	13.52	ug/L	93
13) Carbon Disulfide	4.473	76	84436	11.70	ug/L	100
14) Iodomethane	4.579	142	41954	11.26	ug/L	95
15) Allyl chloride	4.914	41	45994	12.57	ug/L	95
16) Methylene Chloride	5.043	49	43914	12.39	ug/L	89
17) Acetone	5.060	58	7374	45.78	ug/L	93
18) Methyl acetate	5.190	74	16330	58.53	ug/L	96
19) trans-1,2-Dichloroethene	5.225	61	40111	11.92	ug/L	93
20) Hexane	5.290	56	23414	11.37	ug/L #	86
21) Methyl Tert Butyl Ether	5.325	73	79212	11.13	ug/L	91
22) Acetonitrile	5.589	40	15115	137.56	ug/L #	72
23) Di-isopropyl ether	5.707	45	99292	11.44	ug/L	94
24) Chloroprene	5.860	53	57325	13.07	ug/L	91
25) 1,1-Dichloroethane	5.889	63	53539	11.84	ug/L	99
26) Acrylonitrile	5.924	53	34931	50.40	ug/L	92
27) ETBE	6.112	59	102695	11.24	ug/L	93
28) Vinyl acetate	6.100	43	277072	53.81	ug/L	94
29) cis-1,2-Dichloroethene	6.471	96	29438	10.11	ug/L	94
30) 2,2-Dichloropropane	6.588	77	42827	10.82	ug/L	100
31) Bromochloromethane	6.676	128	14285	11.23	ug/L	93
32) Cyclohexane	6.729	56	50587	12.60	ug/L	98
33) Chloroform	6.729	83	56673	11.10	ug/L	87
34) Ethyl acetate	6.794	43	93886	52.84	ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:54:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.911	42	5989	12.20 ug/L #	69
37) Carbon Tetrachloride	6.917	117	42182m	11.94 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	54916	12.46 ug/L	95
39) 2-Butanone	7.011	43	36537	51.94 ug/L	93
40) 1,1-Dichloropropene	7.093	75	40336	11.89 ug/L	93
41) tert-Butyl Formate	7.176	59	149599	71.19 ug/L #	76
42) Propionitrile	7.323	54	30587	119.72 ug/L	83
43) Methacrylonitrile	7.346	41	138374	122.24 ug/L	96
44) Benzene	7.340	78	106877	11.86 ug/L	93
45) TAME	7.428	73	76274	10.30 ug/L	96
47) 1,2-Dichloroethane	7.534	62	47010	11.69 ug/L	91
48) Trichloroethene	7.922	95	29227	11.37 ug/L	86
49) Methylcyclohexane	7.940	83	46034	11.37 ug/L	92
50) Dibromomethane	8.351	93	15497	10.42 ug/L	82
51) 1,2-Dichloropropane	8.433	63	27259	10.73 ug/L	93
52) Bromodichloromethane	8.480	83	41550	11.91 ug/L	93
53) Methyl methacrylate	8.580	41	20200	11.65 ug/L	92
54) 2-Chloroethyl vinyl ether	8.991	63	73223	50.15 ug/L	94
55) cis-1,3-Dichloropropene	9.097	75	46033	11.35 ug/L	88
58) Toluene	9.344	91	115215	10.48 ug/L	98
59) 2-Nitropropane	9.544	41	32473	59.09 ug/L	93
60) 4-Methyl-2-pentanone	9.661	43	84765	46.68 ug/L	91
61) trans-1,3-Dichloropropene	9.726	75	38589	11.09 ug/L	88
62) Tetrachloroethene	9.743	166	27209	11.03 ug/L	93
63) Ethyl methacrylate	9.826	69	30862	10.97 ug/L	85
64) 1,1,2-Trichloroethane	9.890	83	19210	10.50 ug/L	93
65) Dibromochloromethane	10.090	129	25539	10.07 ug/L	97
66) 1,3-Dichloropropane	10.172	76	40576	10.80 ug/L	88
67) 1,2-Dibromoethane	10.349	107	24706	11.78 ug/L	95
68) 2-hexanone	10.478	43	63512	51.15 ug/L	91
69) 1-Chlorohexane	10.777	91	35666	10.42 ug/L #	84
70) Ethylbenzene	10.848	91	136336	10.78 ug/L	89
71) Chlorobenzene	10.848	112	73080	11.09 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.895	131	26239	10.21 ug/L	92
73) m,p-Xylene	10.983	91	210333	21.57 ug/L	99
74) o-Xylene	11.424	91	110736	10.62 ug/L	98
75) Styrene	11.477	104	78336	10.00 ug/L	96
76) Bromoform	11.541	173	14659	9.59 ug/L	85
77) Isopropylbenzene	11.729	105	127594	10.77 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.076	53	10068	11.77 ug/L #	82
81) n-Propylbenzene	12.146	91	153199	10.90 ug/L	96
82) Bromobenzene	12.170	156	30234	9.74 ug/L	94
83) 1,1,2,2-Tetrachloroethane	12.205	83	26047	10.07 ug/L	100
84) 1,3,5-Trimethylbenzene	12.329	105	118139	11.30 ug/L	90
85) 2-Chlorotoluene	12.334	91	105330	10.44 ug/L	92
86) trans-1,4-Dichloro-2-B...	12.387	53	8490	11.22 ug/L	90
87) 1,2,3-Trichloropropane	12.370	110	7527	10.22 ug/L	82
88) Cyclohexanone	12.434	55	2709	42.37 ug/L #	76
89) 4-Chlorotoluene	12.505	91	102194	11.05 ug/L	94
90) a-Methyl Styrene	12.593	118	62838	11.20 ug/L	95

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:54:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	64619	10.90	ug/L	90
92) 1,2,4-Trimethylbenzene	12.740	105	117749	10.79	ug/L	97
93) Pentachloroethane	12.722	167	19887	10.23	ug/L	96
94) sec-Butylbenzene	12.852	105	137119	11.11	ug/L	95
95) 4-Isopropyltoluene	12.987	119	115221	10.87	ug/L	96
96) 1,3-Dichlorobenzene	13.122	146	54333	9.97	ug/L	99
97) 1,4-Dichlorobenzene	13.204	146	57333	10.43	ug/L	92
98) n-Butylbenzene	13.421	92	64944	10.60	ug/L	93
99) Benzyl Chloride	13.433	126	7935	8.45	ug/L #	78
100) 1,2-Dichlorobenzene	13.627	146	52244	10.18	ug/L	94
101) 1,2-Dibromo-3-Chloropr...	14.373	75	4616	11.32	ug/L	86
102) Hexachlorobutadiene	14.914	225	20959	9.56	ug/L	98
103) 1,2,4-Trichlorobenzene	14.961	180	40490	10.38	ug/L	89
104) Naphthalene	15.249	128	60451	9.86	ug/L	99
105) 1,2,3-Trichlorobenzene	15.413	180	31853	9.84	ug/L	95
107) Ethanol	4.273	45	4691m	249.94	ug/L	
108) acrolein	4.755	56	23564	68.24	ug/L	73
109) Tert Butyl Alcohol	5.366	59	19882	97.31	ug/L	72
110) tert Amyl alcohol	7.569	59	15396	104.65	ug/L	84
111) Isobutyl alcohol	7.446	42	14587	263.30	ug/L #	67
112) 1,4-Dioxane	8.662	88	3935	243.04	ug/L	78
113) 3,3-Dimethyl-1-butanol	10.425	57	63331	427.33	ug/L	90

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

7.6.3

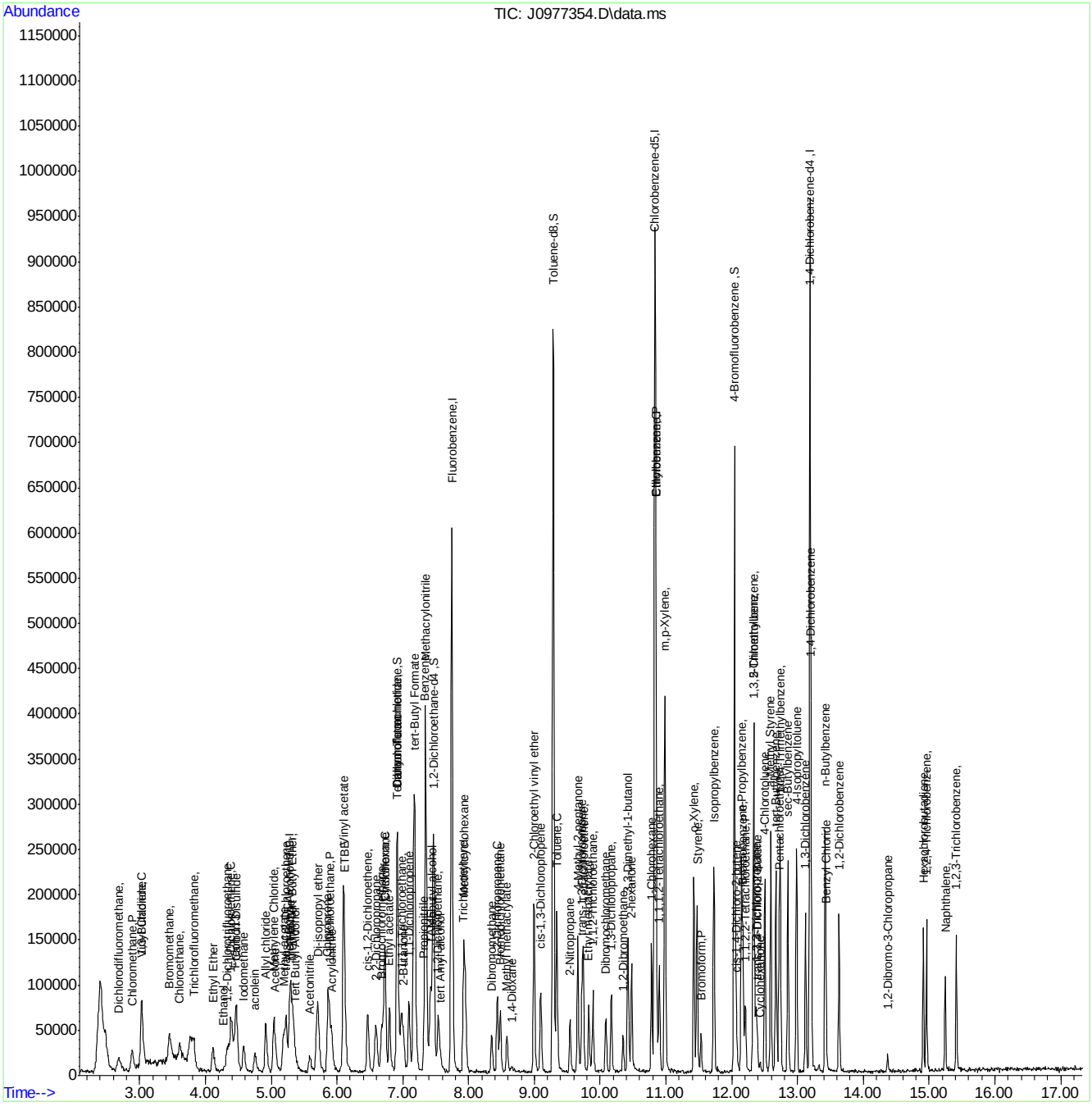
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:54:20 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration


Abundance
TIC: J0977354.D\data.ms
Time-->
Toluene-d8,S
Chlorobenzene-d5,I
4-Bromofluorobenzene ,S
Fluorobenzene,I
m,p-Xylene,
Styrene,
Bromoform,P
Isopropylbenzene,
n-Propylbenzene,
n-Butylbenzene
1,2-Dichlorobenzene
1,2-Dibromo-3-Chloropropane
Naphthalene,
1,2,3-Trichlorobenzene,
Dichlorodifluoromethane,
Chloromethane,P
Bromomethane,
Chloroethane,
Trichlorofluoromethane,
Ethyl Ether
Iodomethane
acrolein
Allyl chloride,
Acetonitrile,
Acrylonitrile,
ETBE
Vinyl acetate
tert-Butyl Formate
Methacrylonitrile
1,2-Dichloroethane-d4 ,S
Propionitrile
Dibromomethane
1,4-Dioxane
2-Chloroethyl vinyl ether
cis-1,3-Dichloropropene
Toluene,C
2-Nitropropane
Dibromochloromethane,
1,2-Dibromoethane,
2-Hexanone
1,1,2-Tetrachloroethane,
1,4-Dichlorobenzene
1,3-Dichlorobenzene
Benzyl Chloride
Hexachlorobutadiene
Styrene
Pentachlorobenzene,
sec-Butylbenzene
4-Isopropyltoluene
4-Chlorotoluene
1,3,5-Trichlorobenzene,
1,2,4-Trichlorobenzene,
1,2,4,5-Tetrachlorobenzene,
Cyclohexanone
Cyclohexanone
Ethylbenzene,P
Nitrobenzene,P
Ethyl Methacrylate
Methyl Methacrylate
Dibromomethane
Propionitrile
Methacrylonitrile
Benzene
tert-Butyl Formate
Ethyl acetate
2-Butanone
2-Chloroethanol
tert-Amyl alcohol
Methyl Acrylate
Methyl Methacrylate
Methyl Acrylate
Methyl Methacrylate
Methyl Methacrylate
Methyl Methac

Manual Integration Approval Summary

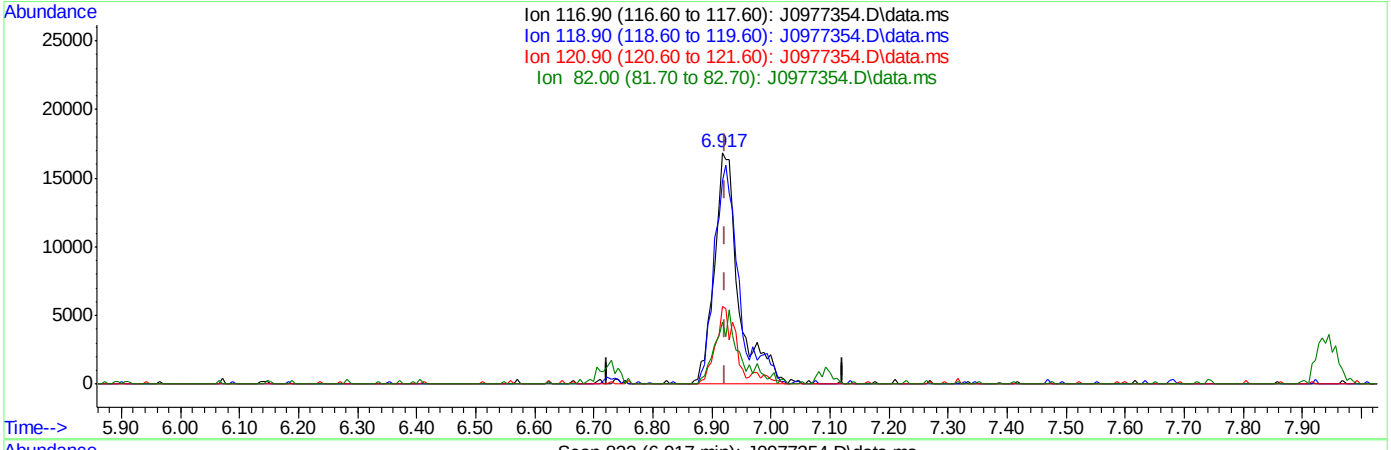
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977354.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 09:24	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

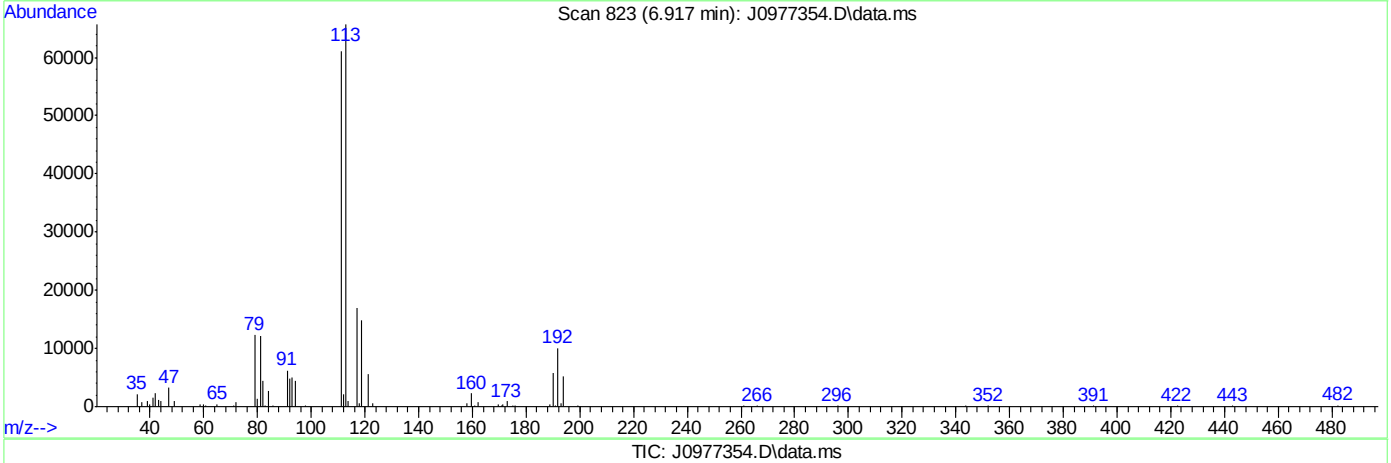
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:48:18 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977354.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (-0.006) 13.59ug/L

response 48036

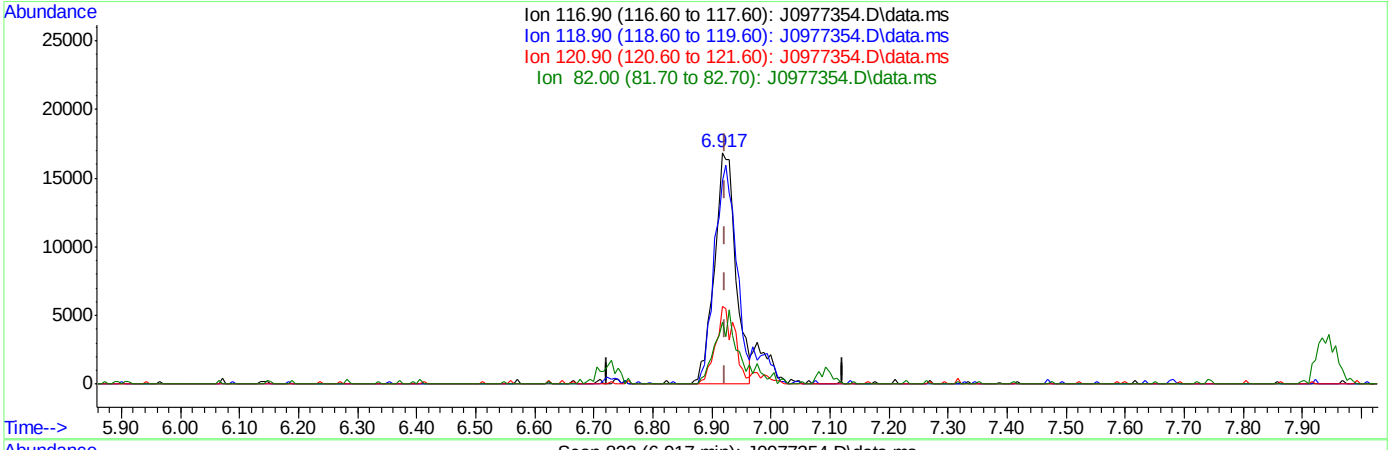
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	87.63
120.90	28.00	33.38
82.00	26.30	26.83

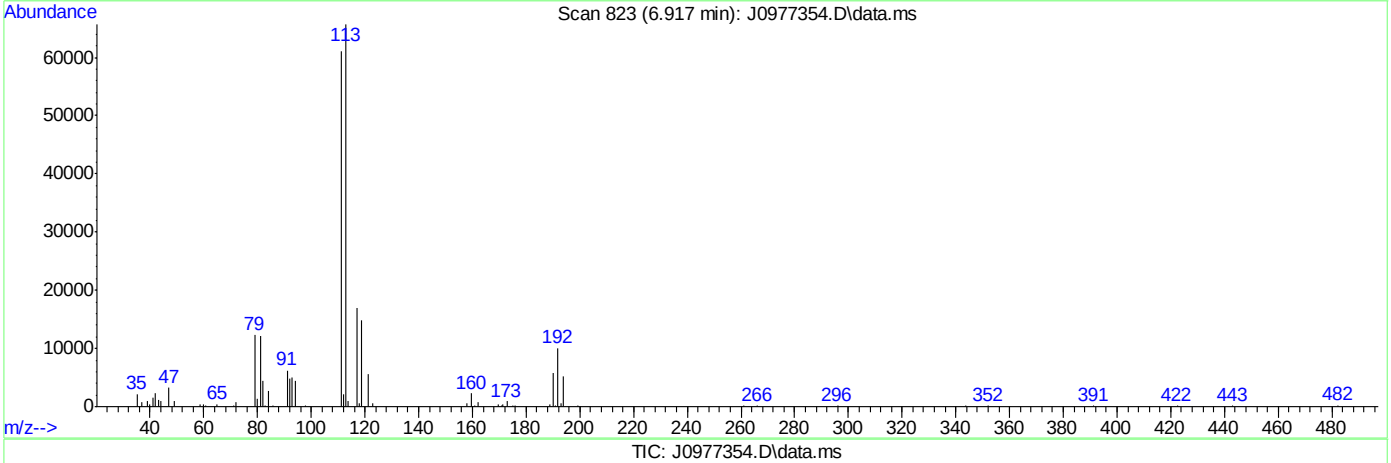
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:48:18 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977354.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (-0.006) 11.94ug/L m

response 42182

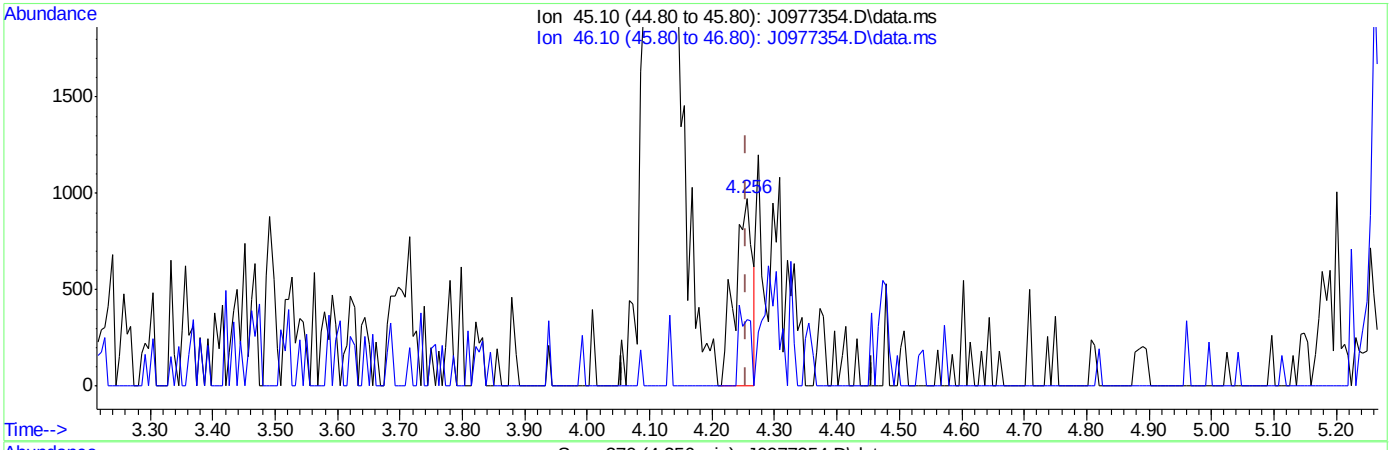
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	87.63
120.90	28.00	33.38
82.00	26.30	26.83

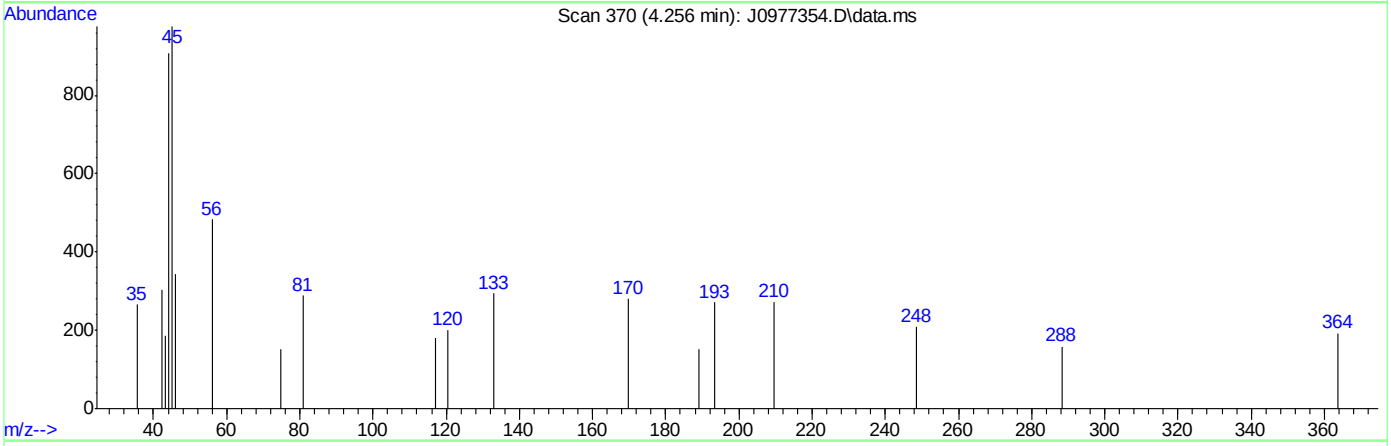
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:48:18 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977354.D\data.ms

(107) Ethanol

4.256min (-0.000) 101.61ug/L

response 1907

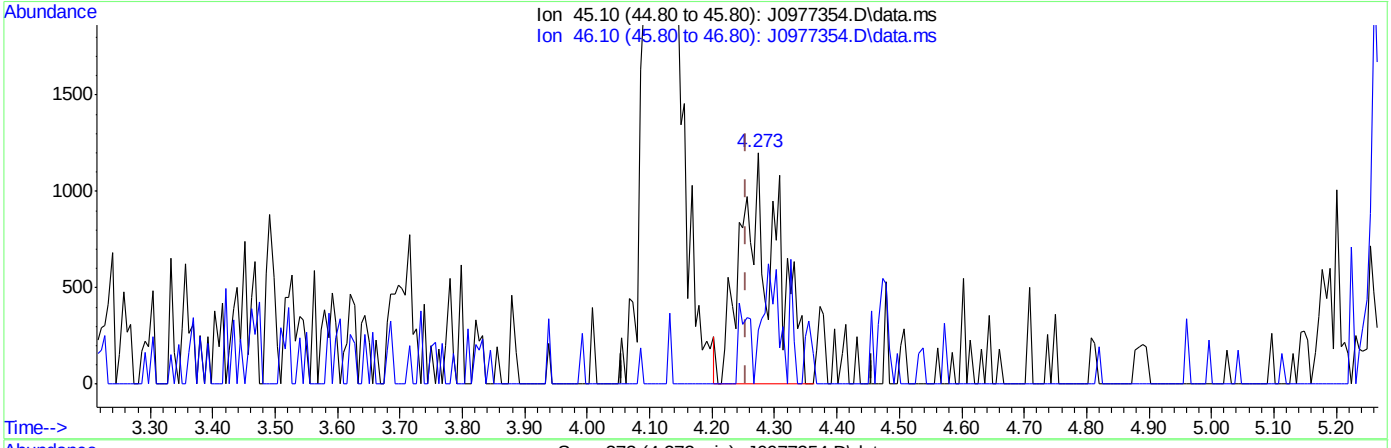
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	35.14
0.00	0.00	0.00
0.00	0.00	0.00

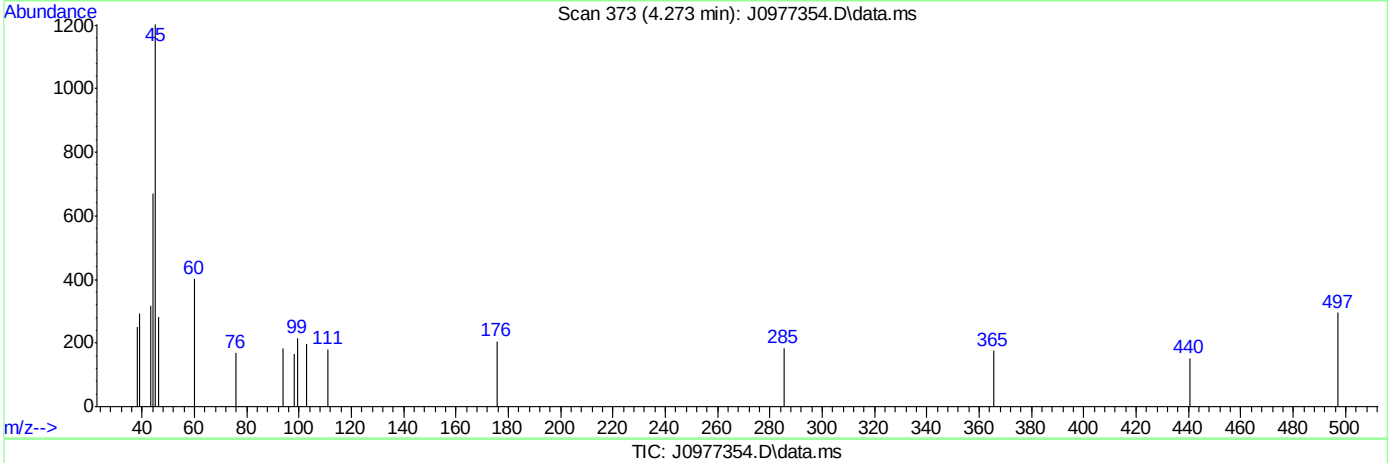
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977354.D
Acq On : 21 Jun 2016 9:24 am
Operator : darshnap
Sample : ic5340-3 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 21 10:48:18 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977354.D\data.ms

(107) Ethanol

4.273min (+0.017) 249.94ug/L m

response 4691

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	23.38
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:54:49 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	518842	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	364305	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	200510	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	35477	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	135379	51.50	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.00%			
46) 1,2-Dichloroethane-d4	7.470	65	196383	54.69	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.38%			
57) Toluene-d8	9.285	98	493756	51.53	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.06%			
79) 4-Bromofluorobenzene	12.041	95	187411	48.93	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	87123	28.69	ug/L	98
3) Chloromethane	2.892	50	89107	26.54	ug/L	96
4) Vinyl Chloride	3.039	62	89161	29.02	ug/L	94
5) 1,3-Butadiene	3.028	54	65315	27.81	ug/L	91
6) Bromomethane	3.462	94	71353	30.13	ug/L	86
7) Chloroethane	3.609	64	56849	30.32	ug/L	92
8) Trichlorofluoromethane	3.774	101	147954	29.86	ug/L	82
9) Ethyl Ether	4.115	59	62470	29.65	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.350	67	79044	29.29	ug/L	91
11) 1,1-Dichloroethene	4.391	61	113095	31.19	ug/L	94
12) Freon 113	4.461	101	68368	30.86	ug/L	90
13) Carbon Disulfide	4.467	76	221402	29.70	ug/L	93
14) Iodomethane	4.579	142	109571	28.47	ug/L	81
15) Allyl chloride	4.920	41	99026	26.20	ug/L	95
16) Methylene Chloride	5.043	49	103851	28.64	ug/L	87
17) Acetone	5.066	58	19073	114.55	ug/L	95
18) Methyl acetate	5.196	74	38250	131.79	ug/L #	74
19) trans-1,2-Dichloroethene	5.225	61	101010	29.08	ug/L	94
20) Hexane	5.290	56	67012	31.50	ug/L	97
21) Methyl Tert Butyl Ether	5.325	73	209880	28.56	ug/L	76
22) Acetonitrile	5.578	40	31171	270.70	ug/L #	82
23) Di-isopropyl ether	5.713	45	261460	29.18	ug/L	91
24) Chloroprene	5.865	53	125442	27.70	ug/L	93
25) 1,1-Dichloroethane	5.895	63	133227	28.54	ug/L	97
26) Acrylonitrile	5.918	53	93407	130.32	ug/L	98
27) ETBE	6.112	59	264922	28.08	ug/L	92
28) Vinyl acetate	6.100	43	735093	138.23	ug/L	98
29) cis-1,2-Dichloroethene	6.471	96	87186	28.99	ug/L	85
30) 2,2-Dichloropropane	6.588	77	120225	29.41	ug/L	95
31) Bromochloromethane	6.676	128	33717	25.66	ug/L #	79
32) Cyclohexane	6.723	56	124378	29.99	ug/L	90
33) Chloroform	6.729	83	154991	29.41	ug/L	86
34) Ethyl acetate	6.794	43	246113	134.12	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:54:49 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.917	42	15201	29.46	ug/L		90
37) Carbon Tetrachloride	6.923	117	105658	28.95	ug/L		90
38) 1,1,1-Trichloroethane	6.982	97	134980	29.65	ug/L		88
39) 2-Butanone	7.011	43	95677	131.70	ug/L		92
40) 1,1-Dichloropropene	7.093	75	102777	29.33	ug/L		96
41) tert-Butyl Formate	7.176	59	461313	212.59	ug/L	#	82
42) Propionitrile	7.323	54	70166	265.93	ug/L		83
43) Methacrylonitrile	7.346	41	310367	265.49	ug/L		97
44) Benzene	7.346	78	267486	28.57	ug/L		98
45) TAME	7.423	73	205185	26.83	ug/L		94
47) 1,2-Dichloroethane	7.534	62	124758	30.04	ug/L		91
48) Trichloroethene	7.922	95	75019	28.25	ug/L		92
49) Methylcyclohexane	7.945	83	123693	29.59	ug/L		97
50) Dibromomethane	8.351	93	44502	28.97	ug/L		80
51) 1,2-Dichloropropane	8.439	63	71613	27.30	ug/L		98
52) Bromodichloromethane	8.480	83	111738	30.57	ug/L		95
53) Methyl methacrylate	8.580	41	43373	24.22	ug/L		95
54) 2-Chloroethyl vinyl ether	8.991	63	188158	124.78	ug/L		94
55) cis-1,3-Dichloropropene	9.097	75	114904	27.43	ug/L		79
58) Toluene	9.338	91	296208	27.18	ug/L		97
59) 2-Nitropropane	9.544	41	86537	156.55	ug/L		94
60) 4-Methyl-2-pentanone	9.661	43	234241	130.14	ug/L		96
61) trans-1,3-Dichloropropene	9.726	75	102406	29.69	ug/L		95
62) Tetrachloroethene	9.743	166	76842	31.43	ug/L		92
63) Ethyl methacrylate	9.826	69	73896	26.50	ug/L		98
64) 1,1,2-Trichloroethane	9.890	83	51956	28.65	ug/L		84
65) Dibromochloromethane	10.090	129	66280	26.37	ug/L		93
66) 1,3-Dichloropropane	10.166	76	110484	29.66	ug/L		96
67) 1,2-Dibromoethane	10.349	107	57410	27.62	ug/L		85
68) 2-hexanone	10.478	43	158555	128.85	ug/L		94
69) 1-Chlorohexane	10.777	91	97866	28.85	ug/L		89
70) Ethylbenzene	10.848	91	359276	28.67	ug/L		96
71) Chlorobenzene	10.854	112	190898	29.15	ug/L		93
72) 1,1,1,2-Tetrachloroethane	10.901	131	70484	27.67	ug/L		96
73) m,p-Xylene	10.983	91	551185	57.04	ug/L		99
74) o-Xylene	11.424	91	294139	28.47	ug/L		97
75) Styrene	11.471	104	211042	27.19	ug/L		95
76) Bromoform	11.535	173	39874	26.33	ug/L		96
77) Isopropylbenzene	11.729	105	339911	28.96	ug/L		98
80) cis-1,4-Dichloro-2-butene	12.070	53	24431	27.04	ug/L	#	84
81) n-Propylbenzene	12.146	91	411638	27.99	ug/L		100
82) Bromobenzene	12.170	156	75394	23.19	ug/L		87
83) 1,1,2,2-Tetrachloroethane	12.205	83	73226	27.05	ug/L		93
84) 1,3,5-Trimethylbenzene	12.329	105	308563	28.18	ug/L		92
85) 2-Chlorotoluene	12.334	91	282626	26.75	ug/L		97
86) trans-1,4-Dichloro-2-B...	12.387	53	21525	27.18	ug/L		87
87) 1,2,3-Trichloropropane	12.364	110	21219	27.51	ug/L		90
88) Cyclohexanone	12.434	55	8987	133.83	ug/L	#	79
89) 4-Chlorotoluene	12.505	91	270557	27.95	ug/L		90
90) a-Methyl Styrene	12.593	118	139827	23.82	ug/L		97

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:54:49 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	175300	28.23	ug/L	93
92) 1,2,4-Trimethylbenzene	12.740	105	299202	26.20	ug/L	96
93) Pentachloroethane	12.722	167	43489	21.37	ug/L	95
94) sec-Butylbenzene	12.852	105	362840	28.08	ug/L	94
95) 4-Isopropyltoluene	12.987	119	308706	27.83	ug/L	96
96) 1,3-Dichlorobenzene	13.122	146	147583	25.88	ug/L	97
97) 1,4-Dichlorobenzene	13.204	146	145826	25.34	ug/L	88
98) n-Butylbenzene	13.421	92	178384	27.81	ug/L	92
99) Benzyl Chloride	13.433	126	23663	24.06	ug/L #	89
100) 1,2-Dichlorobenzene	13.633	146	140067	26.07	ug/L	95
101) 1,2-Dibromo-3-Chloropr...	14.367	75	12524	28.82	ug/L	88
102) Hexachlorobutadiene	14.914	225	59807	26.05	ug/L	91
103) 1,2,4-Trichlorobenzene	14.961	180	104868	25.68	ug/L	97
104) Naphthalene	15.243	128	169592	26.41	ug/L	99
105) 1,2,3-Trichlorobenzene	15.413	180	83484	24.63	ug/L	89
107) Ethanol	4.256	45	8520m	496.53	ug/L	
108) acrolein	4.755	56	53462	166.15	ug/L	88
109) Tert Butyl Alcohol	5.366	59	54502	291.78	ug/L	84
110) tert Amyl alcohol	7.558	59	42668	310.37	ug/L	87
111) Isobutyl alcohol	7.440	42	31433	611.44	ug/L #	82
112) 1,4-Dioxane	8.656	88	9008	594.13	ug/L #	52
113) 3,3-Dimethyl-1-butanol	10.419	57	199440	1436.40	ug/L	96

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

7.6.4

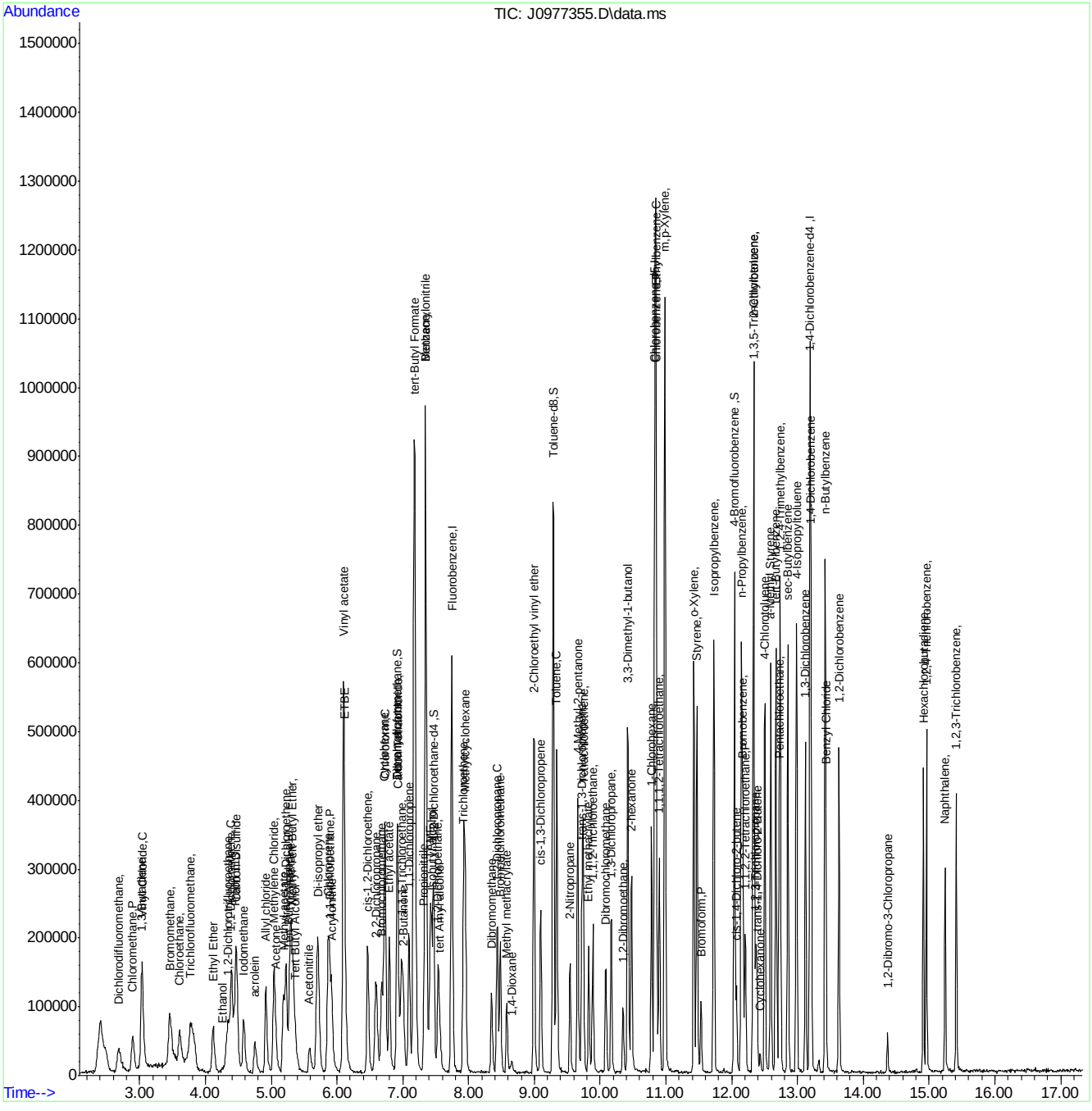
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:54:49 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

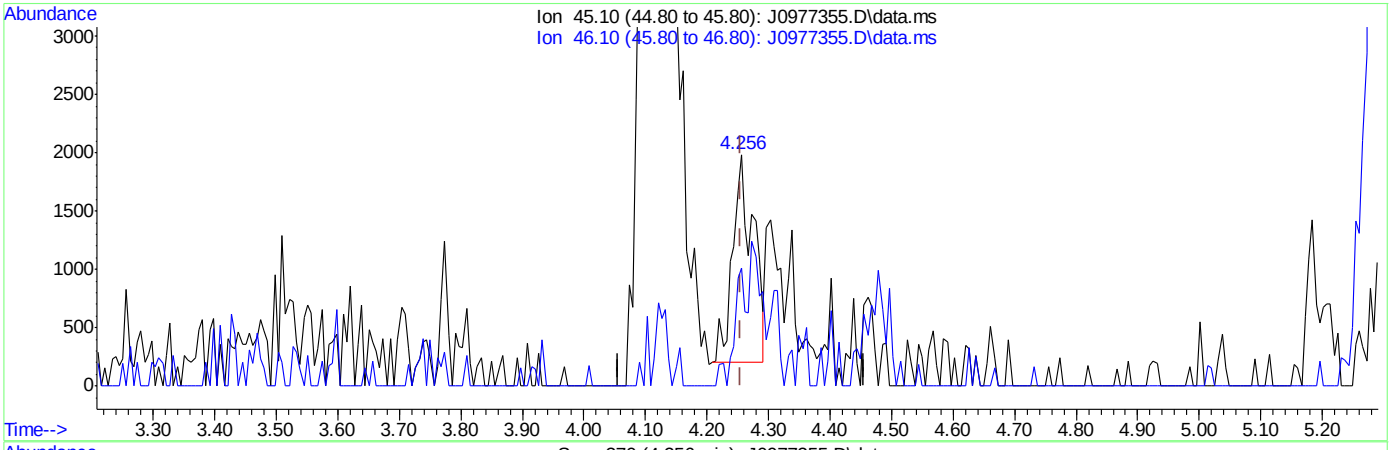
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977355.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 09:47	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

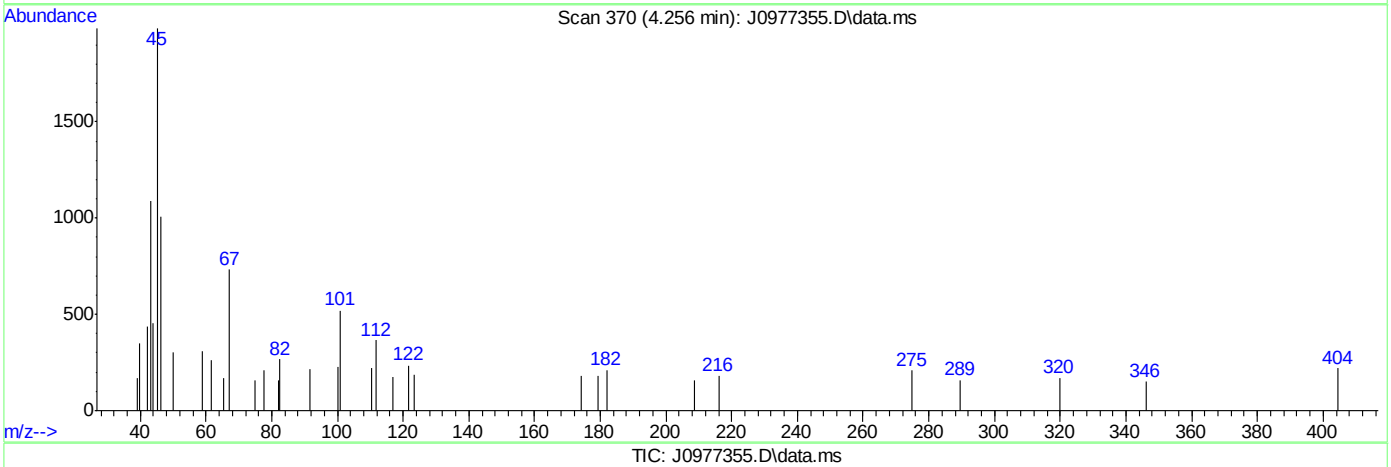
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:48:21 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977355.D\data.ms

(107) Ethanol

4.256min (-0.000) 239.70ug/L

response 4113

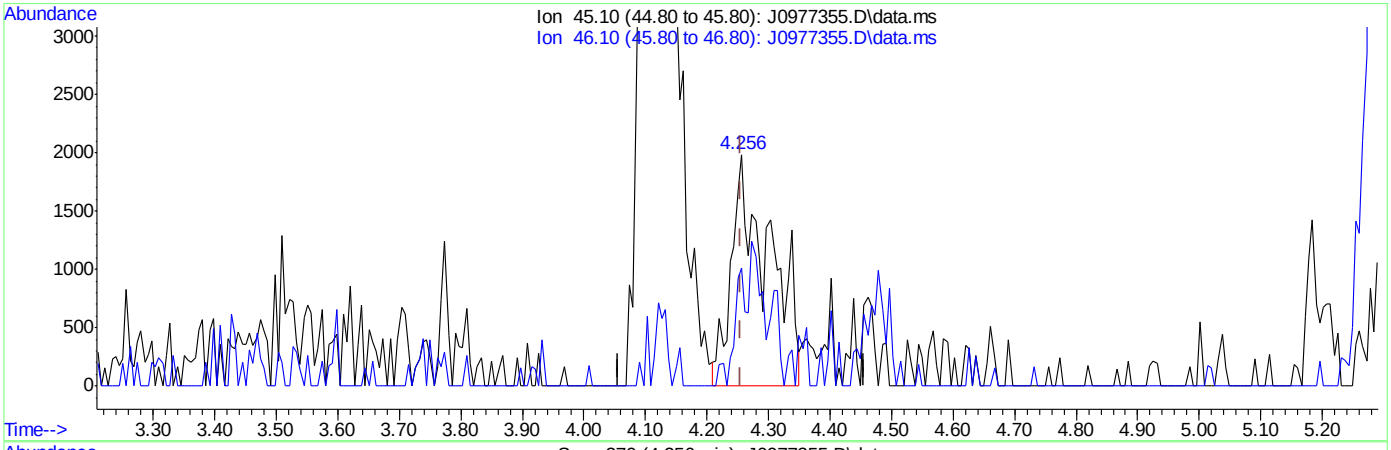
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	56.60
0.00	0.00	0.00
0.00	0.00	0.00

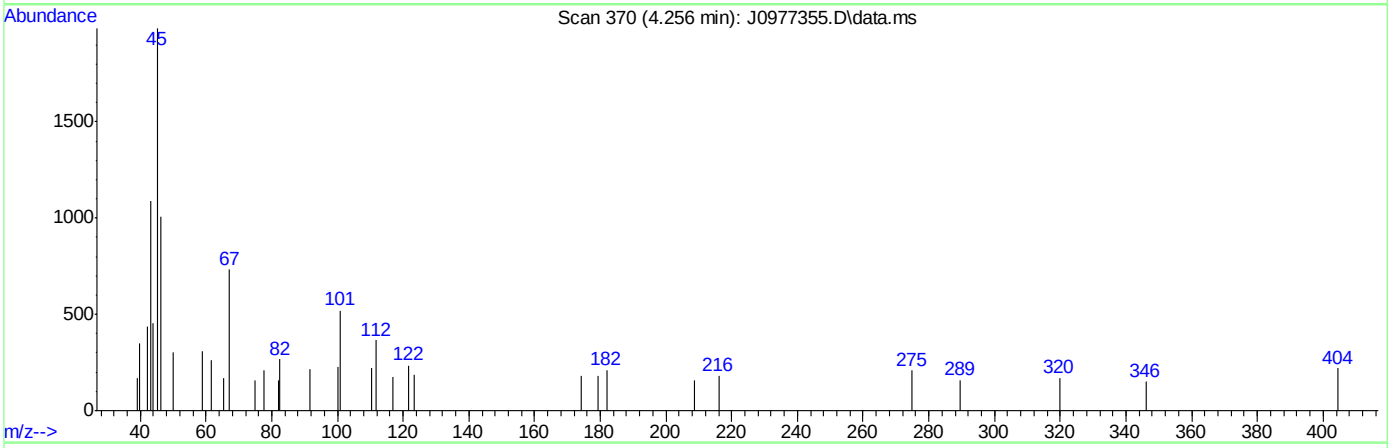
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977355.D
Acq On : 21 Jun 2016 9:47 am
Operator : darshnap
Sample : ic5340-4 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 21 10:48:21 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977355.D\data.ms

(107) Ethanol

4.256min (-0.000) 496.53ug/L m

response 8520

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	50.73
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:34:00 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.745	96	514943	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	379568	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	202128	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.295	65	39582	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	133377	51.12	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.24%			
46) 1,2-Dichloroethane-d4	7.463	65	204975	57.52	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 115.04%			
57) Toluene-d8	9.285	98	493574	49.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.88%			
79) 4-Bromofluorobenzene	12.040	95	197585	51.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	160958	51.10	ug/L	99
3) Chloromethane	2.892	50	163042	48.44	ug/L	85
4) Vinyl Chloride	3.033	62	159572	51.01	ug/L	98
5) 1,3-Butadiene	3.027	54	106753	46.81	ug/L	90
6) Bromomethane	3.456	94	130939	55.57	ug/L	96
7) Chloroethane	3.603	64	101874	57.18	ug/L	98
8) Trichlorofluoromethane	3.774	101	269912	52.79	ug/L	100
9) Ethyl Ether	4.120	59	96503	46.14	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.326	67	124032	46.31	ug/L	91
11) 1,1-Dichloroethene	4.390	61	178504	49.51	ug/L	96
12) Freon 113	4.443	101	109553	49.41	ug/L	95
13) Carbon Disulfide	4.467	76	339189	45.84	ug/L	98
14) Iodomethane	4.578	142	165455	43.31	ug/L	92
15) Allyl chloride	4.913	41	160181	42.70	ug/L	97
16) Methylene Chloride	5.037	49	157701	44.22	ug/L	92
17) Acetone	5.054	58	35317	213.40	ug/L	89
18) Methyl acetate	5.184	74	61141	210.59	ug/L #	83
19) trans-1,2-Dichloroethene	5.225	61	157578	45.70	ug/L	92
20) Hexane	5.284	56	101627	48.13	ug/L #	81
21) Methyl Tert Butyl Ether	5.325	73	313331	42.97	ug/L	87
22) Acetonitrile	5.571	40	50836	436.88	ug/L #	79
23) Di-isopropyl ether	5.707	45	389242	43.77	ug/L	97
24) Chloroprene	5.865	53	215608	47.97	ug/L	94
25) 1,1-Dichloroethane	5.889	63	205531	44.36	ug/L	93
26) Acrylonitrile	5.918	53	150735	211.61	ug/L	96
27) ETBE	6.100	59	403792	43.13	ug/L	99
28) Vinyl acetate	6.094	43	1143558	216.67	ug/L	100
29) cis-1,2-Dichloroethene	6.465	96	121426	40.68	ug/L	85
30) 2,2-Dichloropropane	6.594	77	173747	42.82	ug/L	98
31) Bromochloromethane	6.670	128	52844	40.51	ug/L	85
32) Cyclohexane	6.717	56	198650	48.27	ug/L	97
33) Chloroform	6.729	83	221805	42.40	ug/L	94
34) Ethyl acetate	6.794	43	407184	223.58	ug/L	99

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:34:00 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.911	42	22239	42.85	ug/L		88
37) Carbon Tetrachloride	6.917	117	171781	47.42	ug/L		98
38) 1,1,1-Trichloroethane	6.982	97	209194	46.30	ug/L		92
39) 2-Butanone	7.011	43	167435	232.22	ug/L		90
40) 1,1-Dichloropropene	7.093	75	150854	43.38	ug/L		96
41) tert-Butyl Formate	7.176	59	732948	340.32	ug/L	#	81
42) Propionitrile	7.317	54	106818	407.91	ug/L		97
43) Methacrylonitrile	7.346	41	525333	452.78	ug/L		97
44) Benzene	7.346	78	409956	43.87	ug/L		99
45) TAME	7.422	73	311314	41.01	ug/L		86
47) 1,2-Dichloroethane	7.534	62	181871	44.13	ug/L		93
48) Trichloroethene	7.922	95	112077	42.53	ug/L		92
49) Methylcyclohexane	7.945	83	190087	45.81	ug/L		99
50) Dibromomethane	8.351	93	61164	40.11	ug/L		88
51) 1,2-Dichloropropane	8.439	63	109624	42.11	ug/L		95
52) Bromodichloromethane	8.480	83	169371	46.13	ug/L		93
53) Methyl methacrylate	8.580	41	79517	44.74	ug/L		91
54) 2-Chloroethyl vinyl ether	8.991	63	303053	202.50	ug/L		95
55) cis-1,3-Dichloropropene	9.097	75	171999	41.37	ug/L		94
58) Toluene	9.338	91	444198	39.11	ug/L		97
59) 2-Nitropropane	9.543	41	129408	222.48	ug/L		99
60) 4-Methyl-2-pentanone	9.661	43	400760	213.71	ug/L		97
61) trans-1,3-Dichloropropene	9.726	75	154327	42.95	ug/L		93
62) Tetrachloroethene	9.743	166	116246	45.63	ug/L		91
63) Ethyl methacrylate	9.825	69	117508	40.44	ug/L		97
64) 1,1,2-Trichloroethane	9.890	83	71285	37.73	ug/L		89
65) Dibromochloromethane	10.084	129	106464	40.65	ug/L		98
66) 1,3-Dichloropropane	10.166	76	155857	40.16	ug/L		94
67) 1,2-Dibromoethane	10.348	107	90095	41.61	ug/L		100
68) 2-hexanone	10.478	43	268660	209.55	ug/L		98
69) 1-Chlorohexane	10.777	91	150865	42.69	ug/L		92
70) Ethylbenzene	10.848	91	534493	40.94	ug/L		95
71) Chlorobenzene	10.854	112	292616	42.80	ug/L		93
72) 1,1,1,2-Tetrachloroethane	10.901	131	99585	37.52	ug/L		97
73) m,p-Xylene	10.983	91	830796	82.52	ug/L		98
74) o-Xylene	11.424	91	436694	40.58	ug/L		97
75) Styrene	11.471	104	325524	40.25	ug/L		96
76) Bromoform	11.535	173	62359	39.51	ug/L		94
77) Isopropylbenzene	11.729	105	506695	41.43	ug/L		98
80) cis-1,4-Dichloro-2-butene	12.076	53	39988	43.50	ug/L	#	90
81) n-Propylbenzene	12.146	91	614791	41.46	ug/L		99
82) Bromobenzene	12.170	156	121591	37.11	ug/L		90
83) 1,1,2,2-Tetrachloroethane	12.205	83	107879	39.53	ug/L		95
84) 1,3,5-Trimethylbenzene	12.328	105	462445	41.90	ug/L		99
85) 2-Chlorotoluene	12.334	91	432050	40.57	ug/L		94
86) trans-1,4-Dichloro-2-B...	12.387	53	36294	45.46	ug/L	#	65
87) 1,2,3-Trichloropropane	12.370	110	33442	43.01	ug/L		94
88) Cyclohexanone	12.434	55	14242	209.85	ug/L		89
89) 4-Chlorotoluene	12.505	91	400318	41.03	ug/L		95
90) a-Methyl Styrene	12.593	118	241416	40.79	ug/L		97

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:34:00 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	266020	42.50	ug/L		97
92)	1,2,4-Trimethylbenzene	12.740	105	465768	40.46	ug/L		97
93)	Pentachloroethane	12.722	167	73682	35.92	ug/L		92
94)	sec-Butylbenzene	12.851	105	551837	42.36	ug/L		98
95)	4-Isopropyltoluene	12.986	119	469238	41.96	ug/L		94
96)	1,3-Dichlorobenzene	13.122	146	222972	38.78	ug/L		94
97)	1,4-Dichlorobenzene	13.204	146	221096	38.11	ug/L		94
98)	n-Butylbenzene	13.421	92	277664	42.95	ug/L		99
99)	Benzyl Chloride	13.433	126	40702	41.05	ug/L	#	76
100)	1,2-Dichlorobenzene	13.633	146	212509	39.24	ug/L		95
101)	1,2-Dibromo-3-Chloropr...	14.367	75	18933	42.62	ug/L		92
102)	Hexachlorobutadiene	14.914	225	87389	37.75	ug/L		82
103)	1,2,4-Trichlorobenzene	14.961	180	158489	38.50	ug/L		98
104)	Naphthalene	15.243	128	269089	41.57	ug/L		94
105)	1,2,3-Trichlorobenzene	15.413	180	133270	39.01	ug/L		97
107)	Ethanol	4.279	45	16985m	887.20	ug/L		
108)	acrolein	4.749	56	78508m	216.59	ug/L		
109)	Tert Butyl Alcohol	5.372	59	89793	430.86	ug/L		87
110)	tert Amyl alcohol	7.557	59	68519	440.68	ug/L		91
111)	Isobutyl alcohol	7.440	42	53368	918.51	ug/L	#	80
112)	1,4-Dioxane	8.656	88	16535	954.29	ug/L		81
113)	3,3-Dimethyl-1-butanol	10.419	57	327707	2083.15	ug/L		97

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

7.6.5

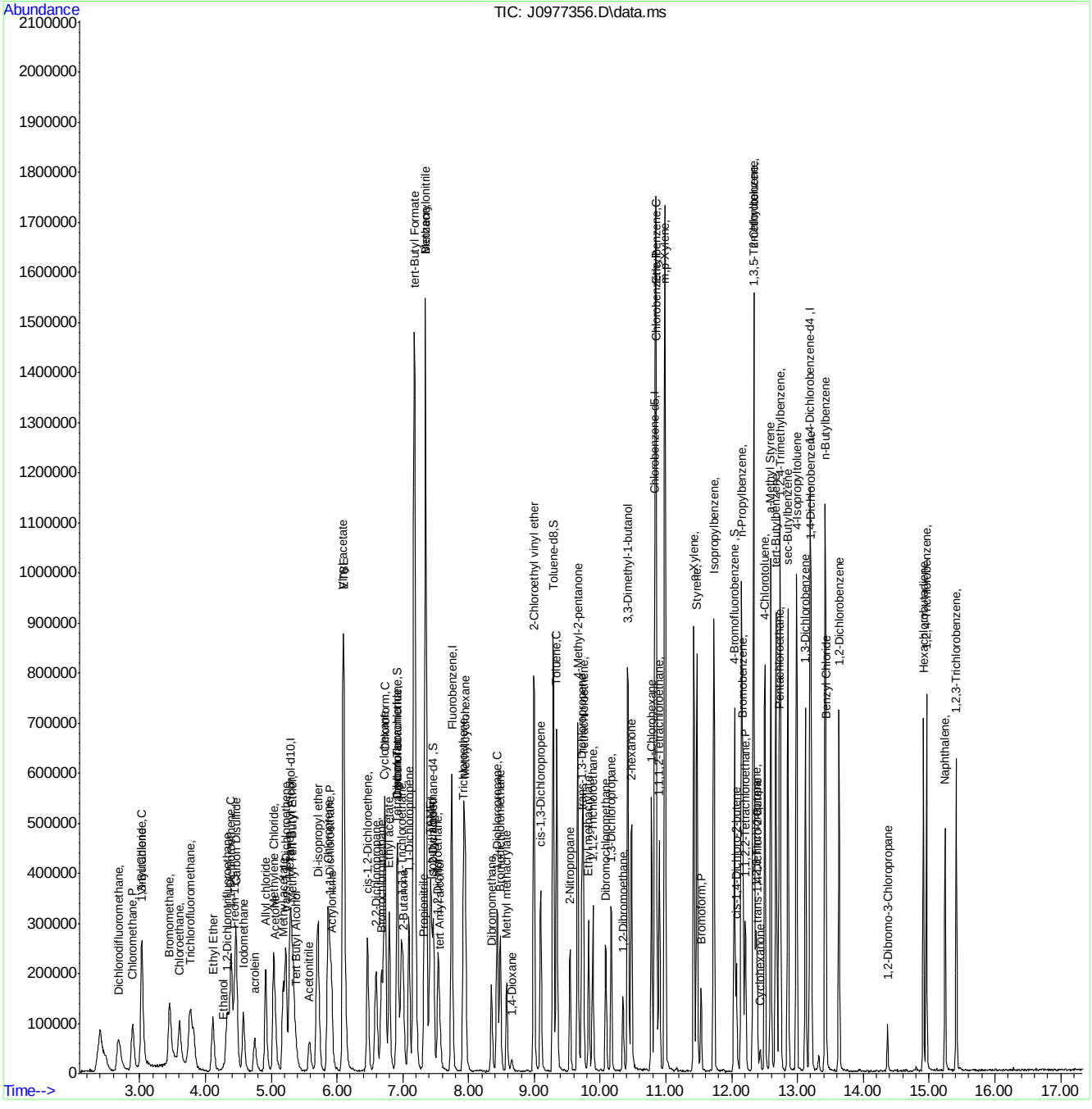
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 11:34:00 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



MSJ062116a.M Wed Jun 22 07:50:59 2016 Page: 4

Manual Integration Approval Summary

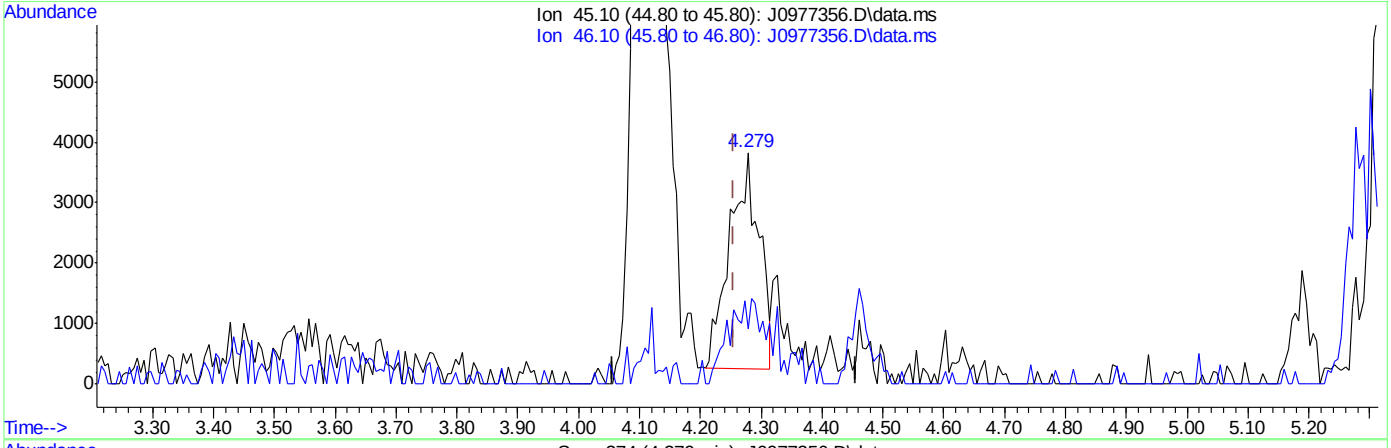
Sample Number:	VJ5340-ICC5340	**Method:**	SW846 8260B
Lab FileID:	J0977356.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 10:09	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

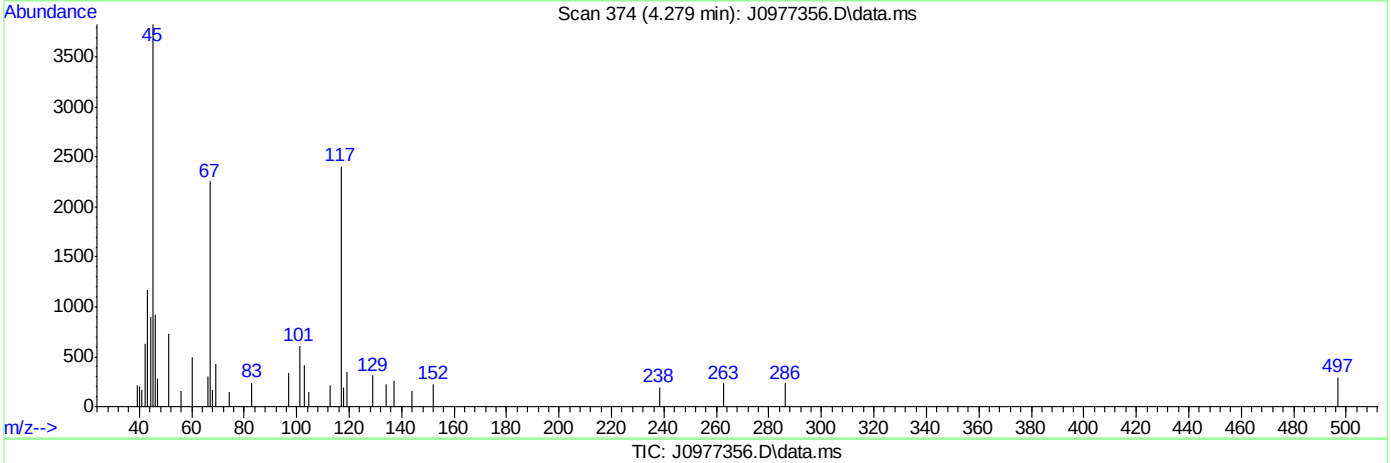
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Acrolein	107-02-8		4.75	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:48:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





(107) Ethanol

4.279min (+0.023) 629.27ug/L

response 12047

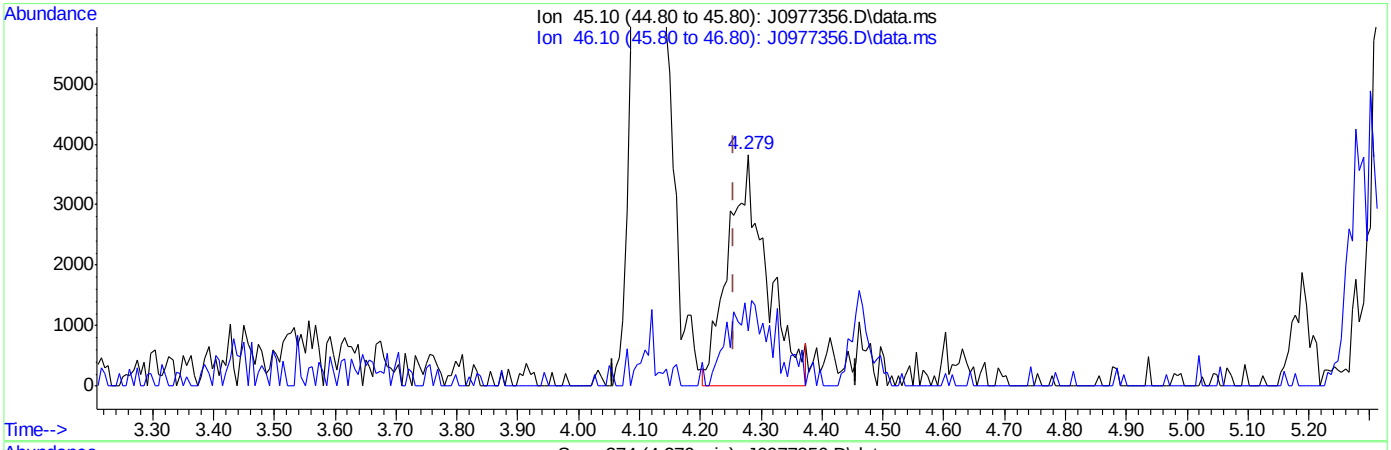
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	25.74
0.00	0.00	0.00
0.00	0.00	0.00

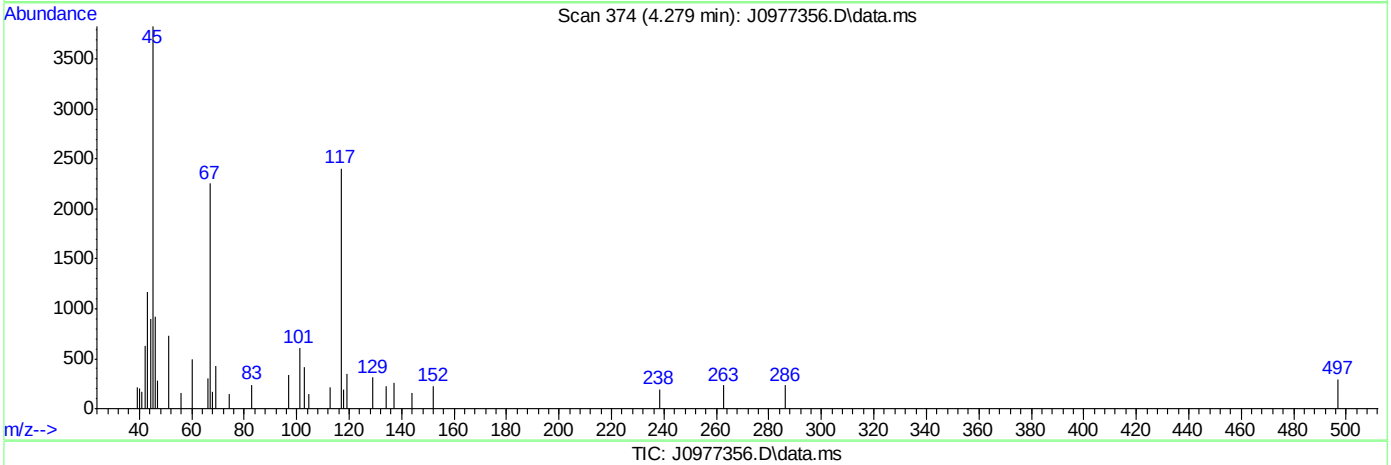
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:48:24 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977356.D\data.ms

(107) Ethanol

4.279min (+0.023) 887.20ug/L m

response 16985

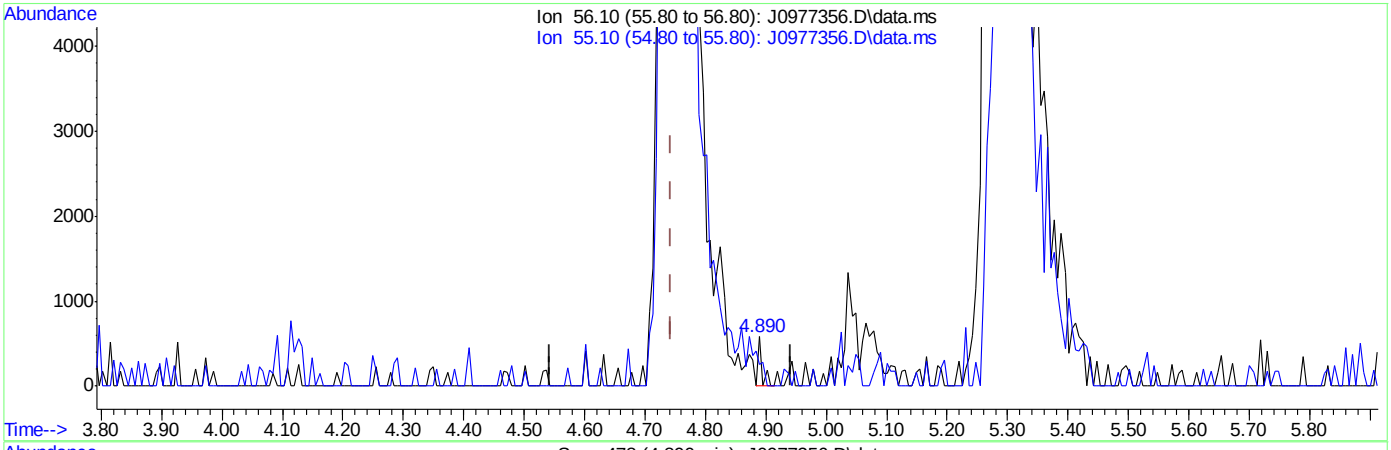
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	23.92
0.00	0.00	0.00
0.00	0.00	0.00

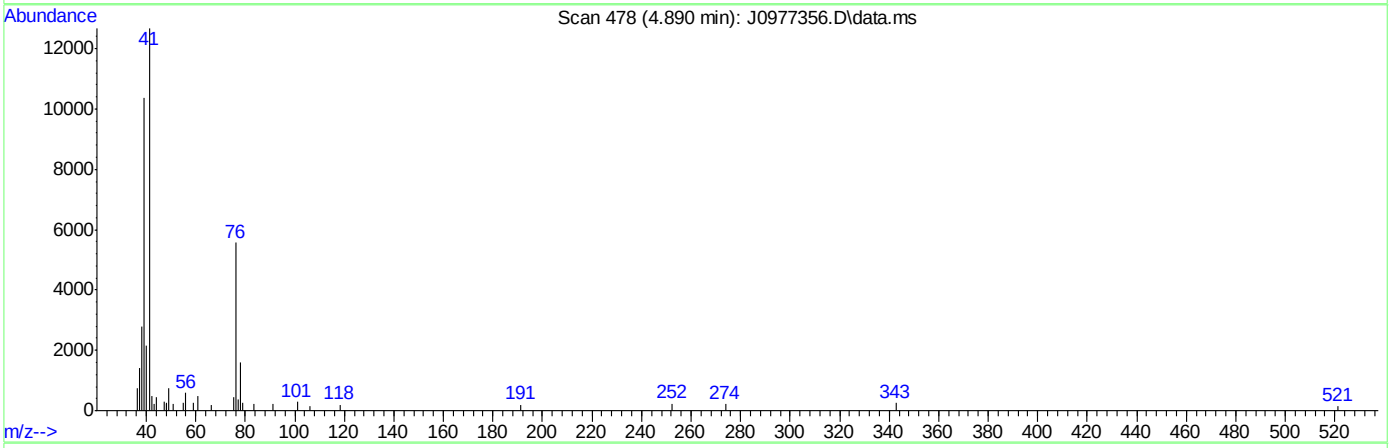
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:55:14 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977356.D\data.ms

(108) acrolein

4.890min (+0.147) 0.78ug/L

response 272

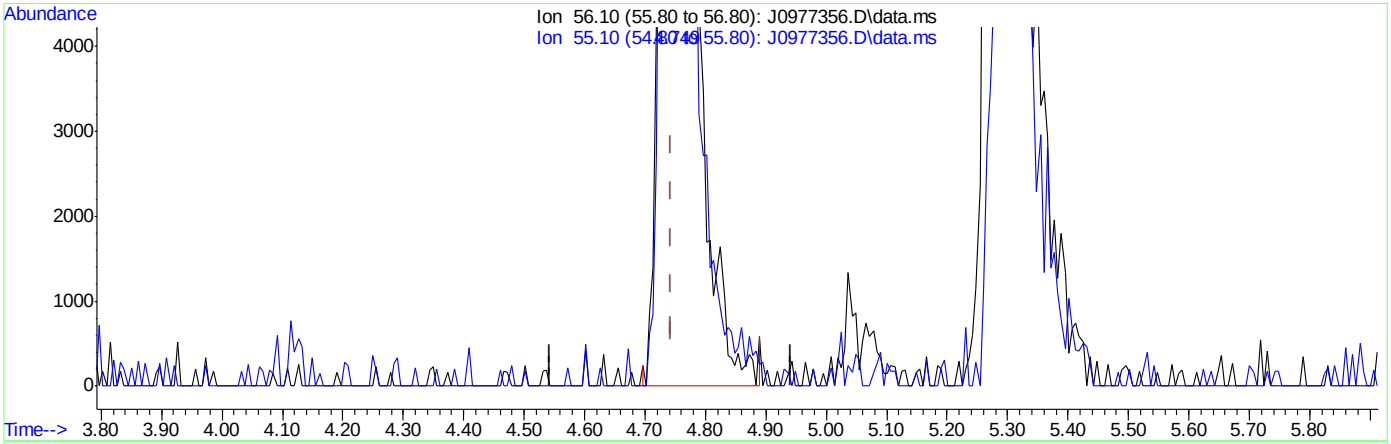
Ion	Exp%	Act%
56.10	100	100
55.10	55.10	43.64
0.00	0.00	0.00
0.00	0.00	0.00

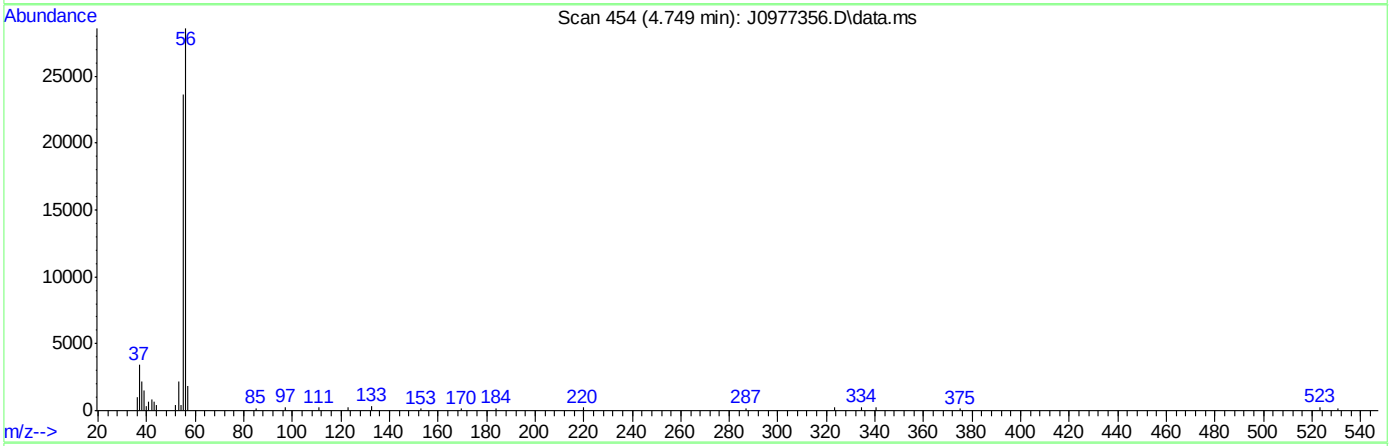
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977356.D
Acq On : 21 Jun 2016 10:09 am
Operator : darshnap
Sample : icc5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 21 10:55:14 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977356.D\data.ms

(108) acrolein

4.749min (+0.006) 216.59ug/L m

response 78508

Ion	Exp%	Act%
56.10	100	100
55.10	55.10	82.77#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	547569	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	406369	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	214399	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.296	65	40986	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	144673	52.15	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.30%			
46) 1,2-Dichloroethane-d4	7.464	65	210190	55.47	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.94%			
57) Toluene-d8	9.285	98	517499	48.42	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.84%			
79) 4-Bromofluorobenzene	12.041	95	202991	49.56	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	236915	68.44	ug/L	100
3) Chloromethane	2.887	50	246818	68.34	ug/L	80
4) Vinyl Chloride	3.028	62	241014	70.85	ug/L	100
5) 1,3-Butadiene	3.022	54	191132	82.20	ug/L	95
6) Bromomethane	3.451	94	204430	81.38	ug/L	95
7) Chloroethane	3.592	64	150825	83.19	ug/L	98
8) Trichlorofluoromethane	3.750	101	418021	74.23	ug/L	99
9) Ethyl Ether	4.109	59	183128	82.35	ug/L	89
10) 1,2-Dichlorotrifluoroe...	4.332	67	232994	81.81	ug/L	91
11) 1,1-Dichloroethene	4.379	61	336810	87.51	ug/L	93
12) Freon 113	4.444	101	203187	84.84	ug/L	94
13) Carbon Disulfide	4.455	76	664945	84.51	ug/L	99
14) Iodomethane	4.567	142	313007	77.06	ug/L	88
15) Allyl chloride	4.908	41	298860	74.92	ug/L	97
16) Methylene Chloride	5.031	49	302542	81.56	ug/L	93
17) Acetone	5.049	58	70197	397.81	ug/L	92
18) Methyl acetate	5.178	74	121072	385.47	ug/L #	72
19) trans-1,2-Dichloroethene	5.213	61	296205	80.79	ug/L	95
20) Hexane	5.284	56	196133	87.36	ug/L #	89
21) Methyl Tert Butyl Ether	5.319	73	607212	78.31	ug/L	90
22) Acetonitrile	5.578	40	94384	738.84	ug/L	95
23) Di-isopropyl ether	5.707	45	743972	78.68	ug/L	97
24) Chloroprene	5.860	53	385738	80.71	ug/L	94
25) 1,1-Dichloroethane	5.883	63	393256	79.82	ug/L	96
26) Acrylonitrile	5.907	53	273622	360.35	ug/L	94
27) ETBE	6.106	59	763322	76.67	ug/L	98
28) Vinyl acetate	6.095	43	2091627	372.68	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	236396	74.48	ug/L	90
30) 2,2-Dichloropropane	6.594	77	333768	77.36	ug/L	96
31) Bromochloromethane	6.670	128	101020	72.84	ug/L #	74
32) Cyclohexane	6.723	56	358040	81.81	ug/L	98
33) Chloroform	6.723	83	429324	77.18	ug/L	96
34) Ethyl acetate	6.788	43	738863	381.53	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	42458	74.54	ug/L	85
37) Carbon Tetrachloride	6.917	117	315462m	81.90	ug/L	
38) 1,1,1-Trichloroethane	6.982	97	394815	82.18	ug/L	98
39) 2-Butanone	7.005	43	310847	405.43	ug/L	90
40) 1,1-Dichloropropene	7.093	75	285027	77.08	ug/L	93
41) tert-Butyl Formate	7.176	59	1365639	596.31	ug/L	90
42) Propionitrile	7.317	54	208907	750.23	ug/L	94
43) Methacrylonitrile	7.346	41	971687	787.59	ug/L	98
44) Benzene	7.340	78	781224	77.69	ug/L	98
45) TAME	7.417	73	604716	74.92	ug/L	97
47) 1,2-Dichloroethane	7.534	62	348082	79.42	ug/L	99
48) Trichloroethene	7.922	95	215855	77.03	ug/L	93
49) Methylcyclohexane	7.945	83	355778	80.64	ug/L	93
50) Dibromomethane	8.345	93	122402	75.49	ug/L	95
51) 1,2-Dichloropropane	8.433	63	209910	75.83	ug/L	96
52) Bromodichloromethane	8.480	83	317707	79.35	ug/L	98
53) Methyl methacrylate	8.580	41	150776	79.78	ug/L	97
54) 2-Chloroethyl vinyl ether	8.991	63	574433	360.96	ug/L	97
55) cis-1,3-Dichloropropene	9.091	75	342677	77.51	ug/L	96
58) Toluene	9.338	91	866230	71.25	ug/L	100
59) 2-Nitropropane	9.544	41	247582	387.99	ug/L	98
60) 4-Methyl-2-pentanone	9.661	43	744436	370.80	ug/L	98
61) trans-1,3-Dichloropropene	9.720	75	295957	76.93	ug/L	99
62) Tetrachloroethene	9.743	166	225128	82.54	ug/L	92
63) Ethyl methacrylate	9.826	69	230168	73.99	ug/L	98
64) 1,1,2-Trichloroethane	9.890	83	141662	70.04	ug/L	94
65) Dibromochloromethane	10.090	129	205978	73.46	ug/L	97
66) 1,3-Dichloropropane	10.166	76	302109	72.71	ug/L	92
67) 1,2-Dibromoethane	10.349	107	172136	74.25	ug/L	93
68) 2-hexanone	10.472	43	510183	371.69	ug/L	98
69) 1-Chlorohexane	10.783	91	283472	74.92	ug/L	92
70) Ethylbenzene	10.848	91	1026184	73.42	ug/L	97
71) Chlorobenzene	10.848	112	539535	73.41	ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.901	131	193458	68.07	ug/L	95
73) m,p-Xylene	10.983	91	1567617	145.43	ug/L	99
74) o-Xylene	11.424	91	839151	72.83	ug/L	98
75) Styrene	11.471	104	614971	71.03	ug/L	93
76) Bromoform	11.535	173	117066	69.29	ug/L	88
77) Isopropylbenzene	11.729	105	963214	73.57	ug/L	94
80) cis-1,4-Dichloro-2-butene	12.070	53	77151	77.62	ug/L	90
81) n-Propylbenzene	12.146	91	1160172	73.77	ug/L	100
82) Bromobenzene	12.170	156	241522	69.49	ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.205	83	203174	70.18	ug/L	99
84) 1,3,5-Trimethylbenzene	12.329	105	881152	75.26	ug/L	98
85) 2-Chlorotoluene	12.334	91	818247	72.43	ug/L	97
86) trans-1,4-Dichloro-2-B...	12.387	53	70903	83.73	ug/L	80
87) 1,2,3-Trichloropropane	12.370	110	57905	70.22	ug/L	97
88) Cyclohexanone	12.434	55	24607	340.32	ug/L	83
89) 4-Chlorotoluene	12.505	91	766104	74.02	ug/L	95
90) a-Methyl Styrene	12.593	118	449372	71.58	ug/L	99

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	510378	76.88	ug/L	95
92) 1,2,4-Trimethylbenzene	12.740	105	879611	72.04	ug/L	96
93) Pentachloroethane	12.722	167	137512	63.19	ug/L	96
94) sec-Butylbenzene	12.852	105	1042378	75.43	ug/L	97
95) 4-Isopropyltoluene	12.987	119	885639	74.66	ug/L	98
96) 1,3-Dichlorobenzene	13.122	146	421517	69.12	ug/L	98
97) 1,4-Dichlorobenzene	13.204	146	434933	70.67	ug/L	92
98) n-Butylbenzene	13.416	92	529267	77.18	ug/L	86
99) Benzyl Chloride	13.433	126	74805	71.12	ug/L #	76
100) 1,2-Dichlorobenzene	13.633	146	406166	70.71	ug/L	93
101) 1,2-Dibromo-3-Chloropr...	14.367	75	34625	71.41	ug/L	93
102) Hexachlorobutadiene	14.914	225	174031	70.88	ug/L	93
103) 1,2,4-Trichlorobenzene	14.961	180	301442	69.03	ug/L	96
104) Naphthalene	15.243	128	499097	72.69	ug/L	97
105) 1,2,3-Trichlorobenzene	15.413	180	250864	69.22	ug/L	97
107) Ethanol	4.267	45	31231m	1575.45	ug/L	
108) acrolein	4.743	56	149386	385.60	ug/L	80
109) Tert Butyl Alcohol	5.372	59	160136	742.06	ug/L	96
110) tert Amyl alcohol	7.558	59	126432	760.08	ug/L	89
111) Isobutyl alcohol	7.440	42	98294	1589.17	ug/L	94
112) 1,4-Dioxane	8.656	88	28315	1521.33	ug/L	83
113) 3,3-Dimethyl-1-butanol	10.419	57	605746	3590.95	ug/L	95

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

7.6.6

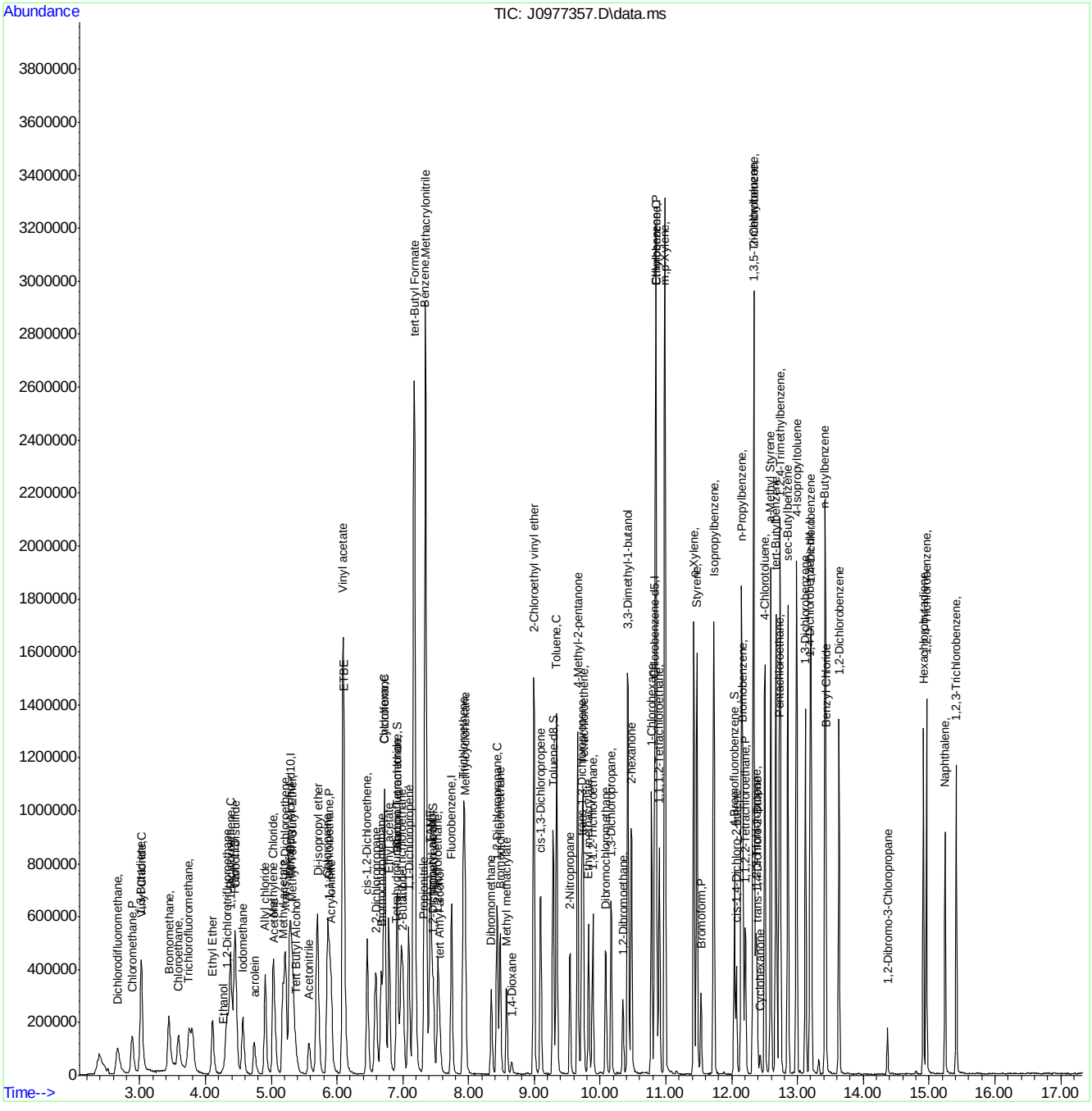
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

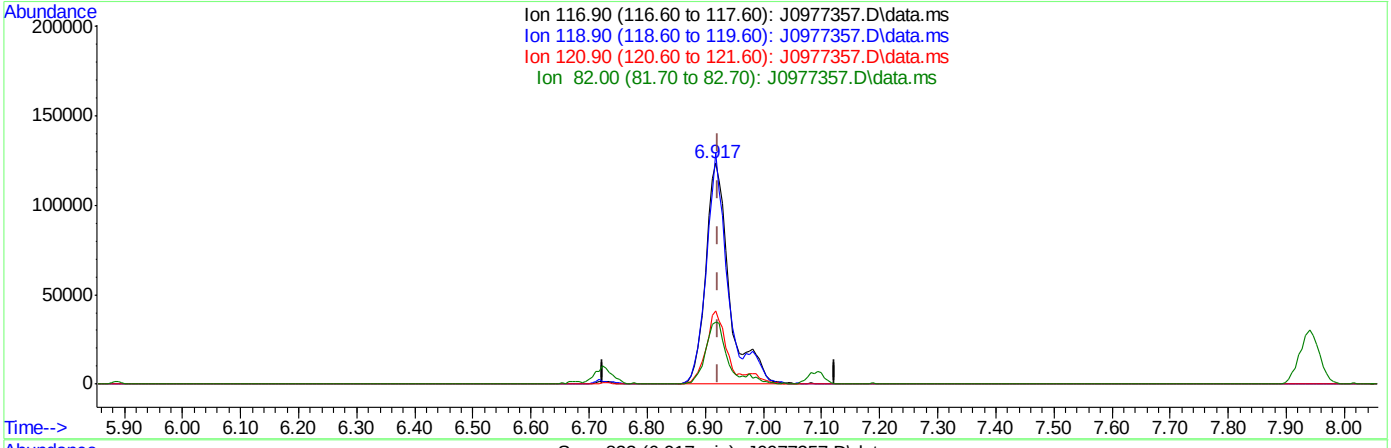
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977357.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 10:32	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

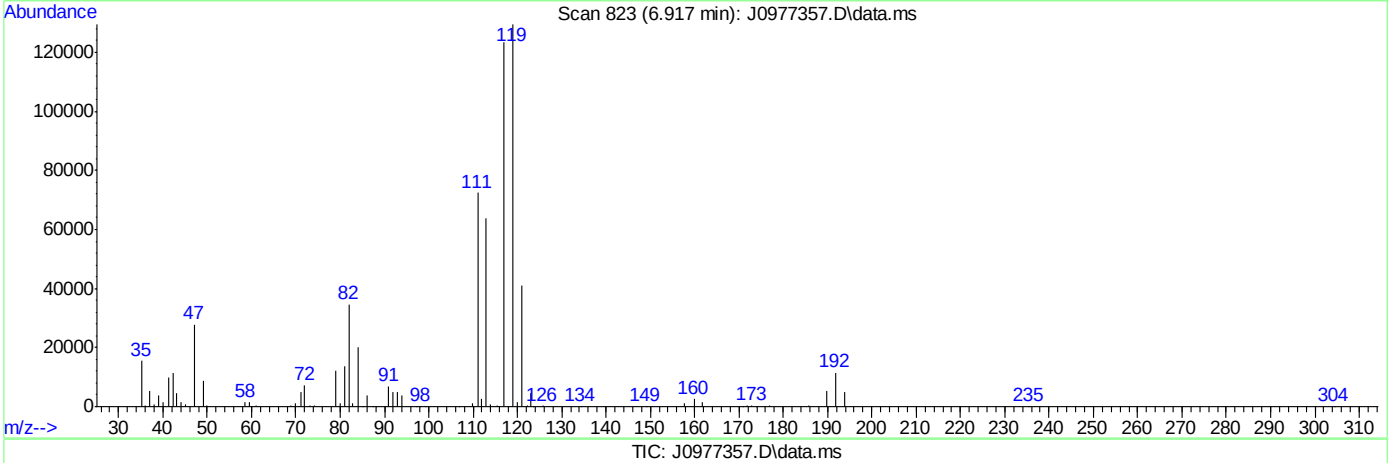
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977357.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (-0.006) 91.88ug/L

response 353932

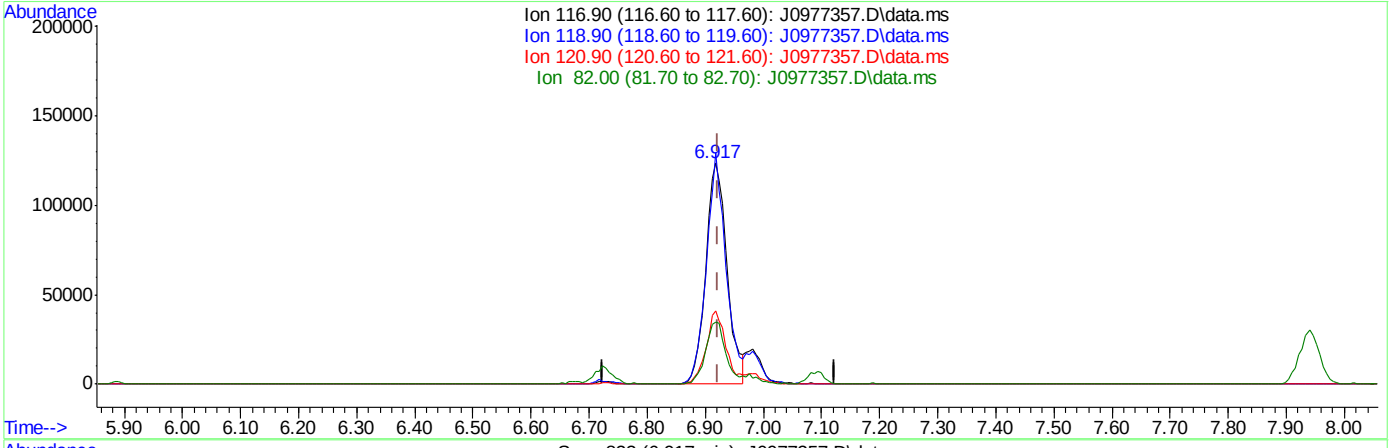
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	104.85
120.90	28.00	33.22
82.00	26.30	27.74

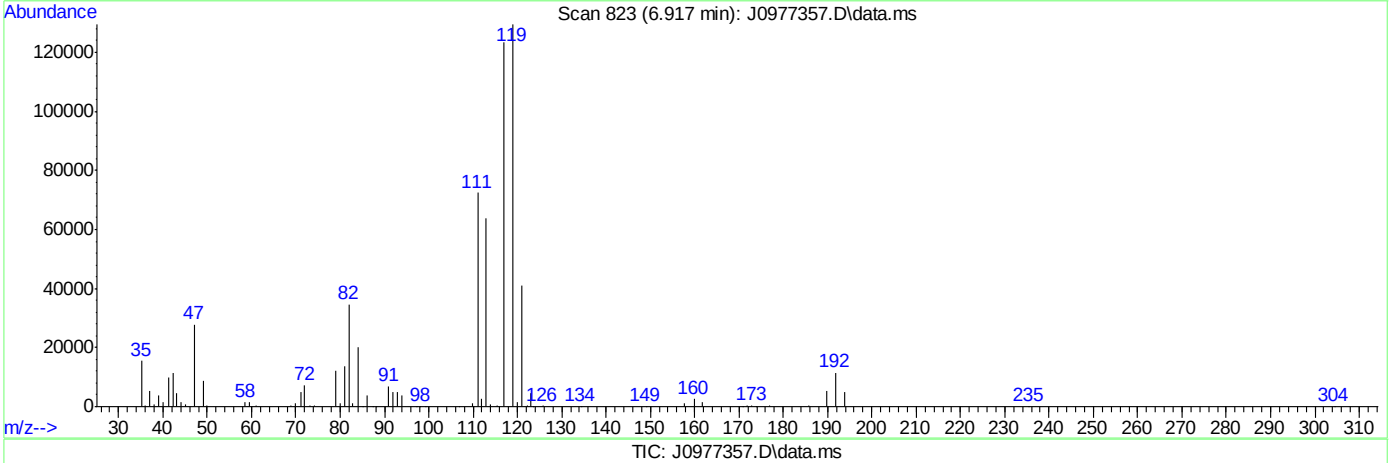
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.917min (-0.006) 81.90ug/L m

response 315462

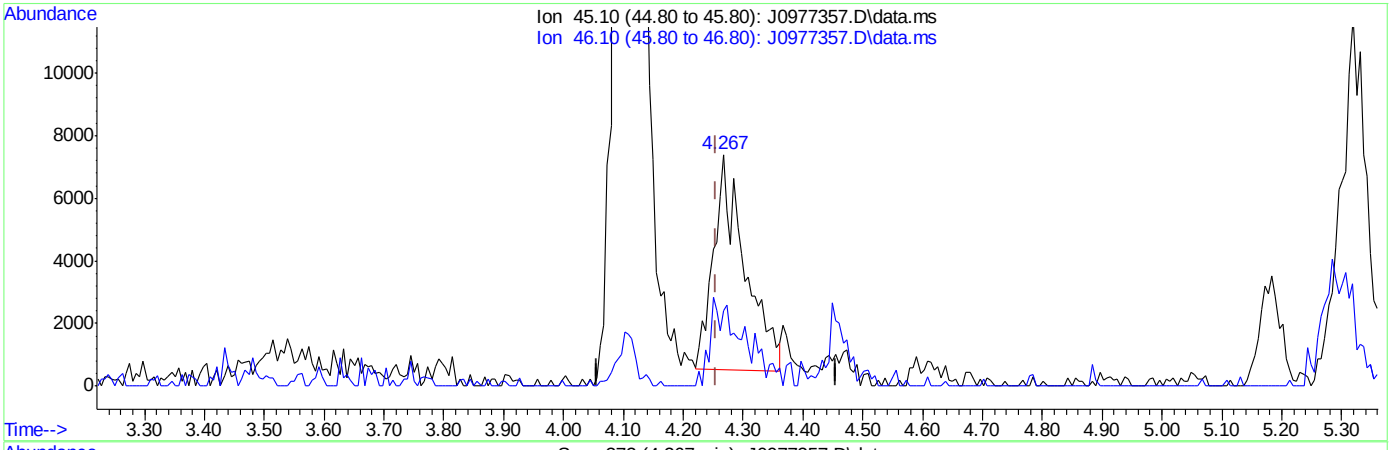
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	104.85
120.90	28.00	33.22
82.00	26.30	28.03

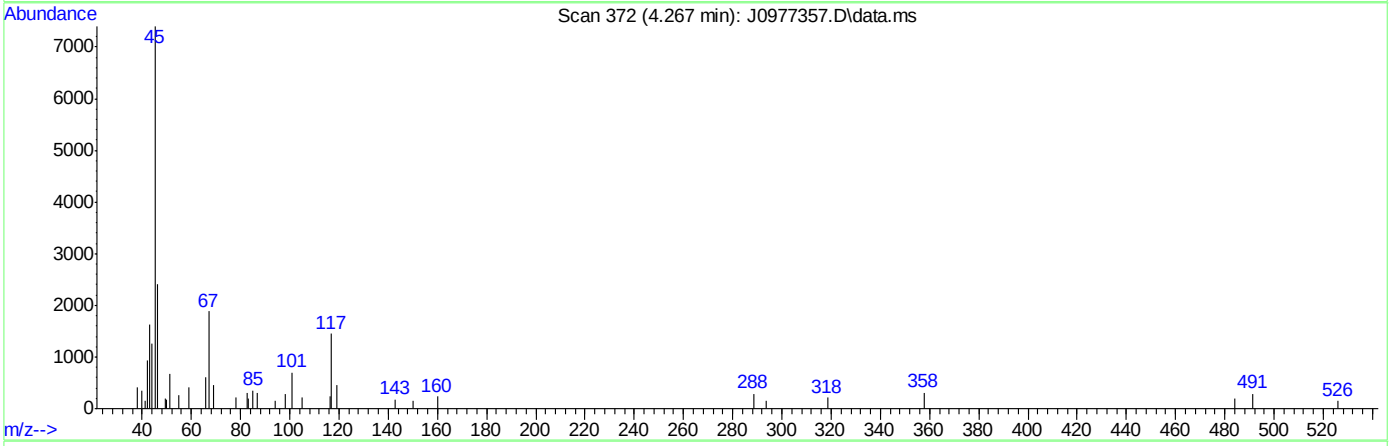
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977357.D\data.ms

(107) Ethanol

4.267min (+0.011) 1251.09ug/L

response 24801

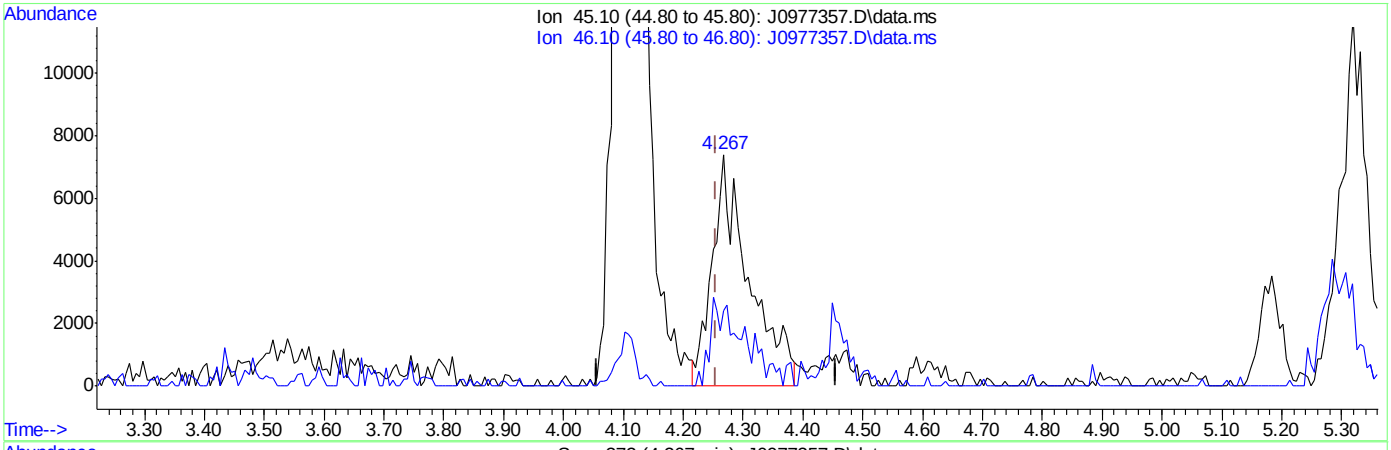
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	35.57
0.00	0.00	0.00
0.00	0.00	0.00

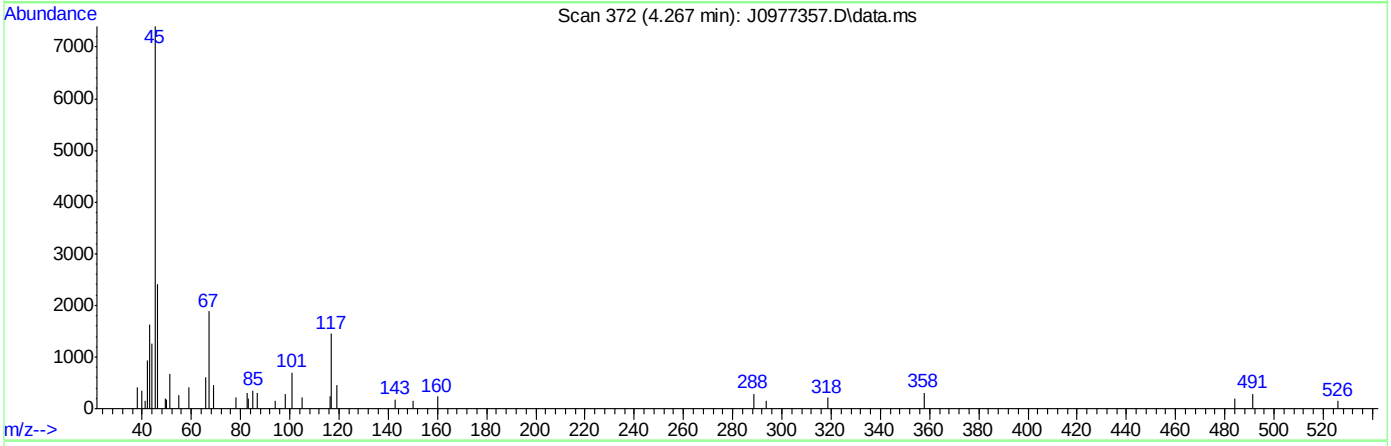
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977357.D
Acq On : 21 Jun 2016 10:32 am
Operator : darshnap
Sample : ic5340-6 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 21 10:55:31 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977357.D\data.ms

(107) Ethanol

4.267min (+0.011) 1575.45ug/L m

response 31231

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	32.68
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

J0977358.D

Manual Integrations APPROVED (compounds with "m" flag)

Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:26:08 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	583271	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	432353	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	240826	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.301	65	44140	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	147826	50.02	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.04%			
46) 1,2-Dichloroethane-d4	7.469	65	217565	53.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.80%			
57) Toluene-d8	9.285	98	558698	49.13	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.26%			
79) 4-Bromofluorobenzene	12.041	95	259781	56.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	372473	96.06	ug/L	96
3) Chloromethane	2.904	50	391245	100.25	ug/L	82
4) Vinyl Chloride	3.045	62	375236	100.27	ug/L	97
5) 1,3-Butadiene	3.033	54	263041	109.90	ug/L	94
6) Bromomethane	3.462	94	297423	110.82	ug/L	97
7) Chloroethane	3.603	64	200995	108.93	ug/L	97
8) Trichlorofluoromethane	3.809	101	649737	103.44	ug/L	93
9) Ethyl Ether	4.114	59	283274	119.59	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.344	67	340780	112.34	ug/L	95
11) 1,1-Dichloroethene	4.391	61	467746	113.79	ug/L	96
12) Freon 113	4.444	101	287535	111.40	ug/L	97
13) Carbon Disulfide	4.461	76	952242	113.62	ug/L	99
14) Iodomethane	4.573	142	459856	106.28	ug/L	92
15) Allyl chloride	4.919	41	432233	101.73	ug/L	95
16) Methylene Chloride	5.037	49	448260	115.82	ug/L	93
17) Acetone	5.066	58	100728	534.81	ug/L	95
18) Methyl acetate	5.184	74	184079	541.93	ug/L #	82
19) trans-1,2-Dichloroethene	5.225	61	422932	108.30	ug/L	100
20) Hexane	5.290	56	282422	118.10	ug/L #	88
21) Methyl Tert Butyl Ether	5.325	73	899910	108.95	ug/L	90
22) Acetonitrile	5.583	40	139310	996.99	ug/L	92
23) Di-isopropyl ether	5.707	45	1089353	108.15	ug/L	97
24) Chloroprene	5.865	53	556223	109.25	ug/L	94
25) 1,1-Dichloroethane	5.889	63	580985	110.70	ug/L	99
26) Acrylonitrile	5.918	53	411224	507.19	ug/L	97
27) ETBE	6.106	59	1151108	108.55	ug/L	96
28) Vinyl acetate	6.100	43	3060253	511.90	ug/L	99
29) cis-1,2-Dichloroethene	6.465	96	343962	101.73	ug/L	90
30) 2,2-Dichloropropane	6.594	77	482144	104.91	ug/L	99
31) Bromochloromethane	6.676	128	152333	103.11	ug/L #	76
32) Cyclohexane	6.723	56	516355	110.76	ug/L	91
33) Chloroform	6.729	83	623716	105.27	ug/L	95
34) Ethyl acetate	6.794	43	1128242	546.93	ug/L	99

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:26:08 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	65341	104.62 ug/L	97
37) Carbon Tetrachloride	6.923	117	462866m	112.81 ug/L	
38) 1,1,1-Trichloroethane	6.988	97	560122	109.45 ug/L	96
39) 2-Butanone	7.011	43	457559	560.25 ug/L	95
40) 1,1-Dichloropropene	7.093	75	415530	105.50 ug/L	94
41) tert-Butyl Formate	7.182	59	2141385	877.80 ug/L	92
42) Propionitrile	7.323	54	320268	1079.75 ug/L	83
43) Methacrylonitrile	7.352	41	1407542	1071.03 ug/L	98
44) Benzene	7.346	78	1157772	106.98 ug/L	99
45) TAME	7.422	73	890541	103.58 ug/L	94
47) 1,2-Dichloroethane	7.540	62	506563	108.51 ug/L	99
48) Trichloroethene	7.922	95	313533	105.04 ug/L	98
49) Methylcyclohexane	7.945	83	514554	109.48 ug/L	95
50) Dibromomethane	8.351	93	190499	110.30 ug/L	92
51) 1,2-Dichloropropane	8.439	63	310957	105.46 ug/L	96
52) Bromodichloromethane	8.480	83	468934	107.66 ug/L	98
53) Methyl methacrylate	8.580	41	219362	108.96 ug/L	96
54) 2-Chloroethyl vinyl ether	8.991	63	857046	505.58 ug/L	94
55) cis-1,3-Dichloropropene	9.097	75	501217	106.43 ug/L	95
58) Toluene	9.338	91	1240007	95.86 ug/L	98
59) 2-Nitropropane	9.543	41	370174	533.89 ug/L	97
60) 4-Methyl-2-pentanone	9.661	43	1117704	523.26 ug/L	97
61) trans-1,3-Dichloropropene	9.726	75	452405	110.53 ug/L	97
62) Tetrachloroethene	9.743	166	322842	111.25 ug/L	92
63) Ethyl methacrylate	9.826	69	340966	103.02 ug/L	95
64) 1,1,2-Trichloroethane	9.890	83	205919	95.68 ug/L	96
65) Dibromochloromethane	10.084	129	305198	102.30 ug/L	97
66) 1,3-Dichloropropane	10.166	76	456264	103.22 ug/L	99
67) 1,2-Dibromoethane	10.348	107	258753	104.91 ug/L	89
68) 2-hexanone	10.478	43	778879	533.35 ug/L	94
69) 1-Chlorohexane	10.783	91	407237	101.16 ug/L	87
70) Ethylbenzene	10.848	91	1504662	101.19 ug/L	97
71) Chlorobenzene	10.854	112	799983	101.90 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.901	131	299389	99.02 ug/L	93
73) m,p-Xylene	10.983	91	2257057	196.81 ug/L	96
74) o-Xylene	11.424	91	1228863	100.24 ug/L	98
75) Styrene	11.471	104	916919	99.54 ug/L	95
76) Bromoform	11.535	173	185414	103.15 ug/L	94
77) Isopropylbenzene	11.729	105	1413694	101.49 ug/L	95
80) cis-1,4-Dichloro-2-butene	12.076	53	130535	114.57 ug/L #	72
81) n-Propylbenzene	12.152	91	1795366	101.63 ug/L	83
82) Bromobenzene	12.170	156	358247	91.76 ug/L	88
83) 1,1,2,2-Tetrachloroethane	12.211	83	333695	102.62 ug/L	90
84) 1,3,5-Trimethylbenzene	12.329	105	1437308	109.29 ug/L	98
85) 2-Chlorotoluene	12.334	91	1305788	102.91 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.387	53	101944	107.17 ug/L	87
87) 1,2,3-Trichloropropane	12.370	110	98164	105.97 ug/L	85
88) Cyclohexanone	12.434	55	42043	514.64 ug/L #	68
89) 4-Chlorotoluene	12.505	91	1119697	96.31 ug/L	97
90) a-Methyl Styrene	12.599	118	732077	103.81 ug/L	99

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:26:08 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	735929	98.69	ug/L		97
92)	1,2,4-Trimethylbenzene	12.740	105	1293168	94.28	ug/L		94
93)	Pentachloroethane	12.722	167	207426	84.86	ug/L	#	59
94)	sec-Butylbenzene	12.857	105	1648385	106.20	ug/L		97
95)	4-Isopropyltoluene	12.987	119	1310227	98.33	ug/L		97
96)	1,3-Dichlorobenzene	13.122	146	644425	94.08	ug/L		99
97)	1,4-Dichlorobenzene	13.210	146	641731	92.83	ug/L		93
98)	n-Butylbenzene	13.421	92	798983	103.72	ug/L		94
99)	Benzyl Chloride	13.433	126	131994	111.72	ug/L	#	71
100)	1,2-Dichlorobenzene	13.633	146	653941	101.35	ug/L		94
101)	1,2-Dibromo-3-Chloropr...	14.367	75	59181	105.18	ug/L		88
102)	Hexachlorobutadiene	14.914	225	297244	107.78	ug/L		91
103)	1,2,4-Trichlorobenzene	14.961	180	524300	106.88	ug/L		88
104)	Naphthalene	15.243	128	940828	121.99	ug/L		93
105)	1,2,3-Trichlorobenzene	15.413	180	436070	107.12	ug/L		81
107)	Ethanol	4.285	45	44116m	2066.42	ug/L		
108)	acrolein	4.749	56	226068	527.97	ug/L		83
109)	Tert Butyl Alcohol	5.384	59	250237	1076.73	ug/L		90
110)	tert Amyl alcohol	7.563	59	196032	1062.06	ug/L		84
111)	Isobutyl alcohol	7.446	42	148842	2181.82	ug/L	#	88
112)	1,4-Dioxane	8.656	88	43973	2114.20	ug/L		98
113)	3,3-Dimethyl-1-butanol	10.425	57	1009418	5343.14	ug/L		94

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

7.6.7

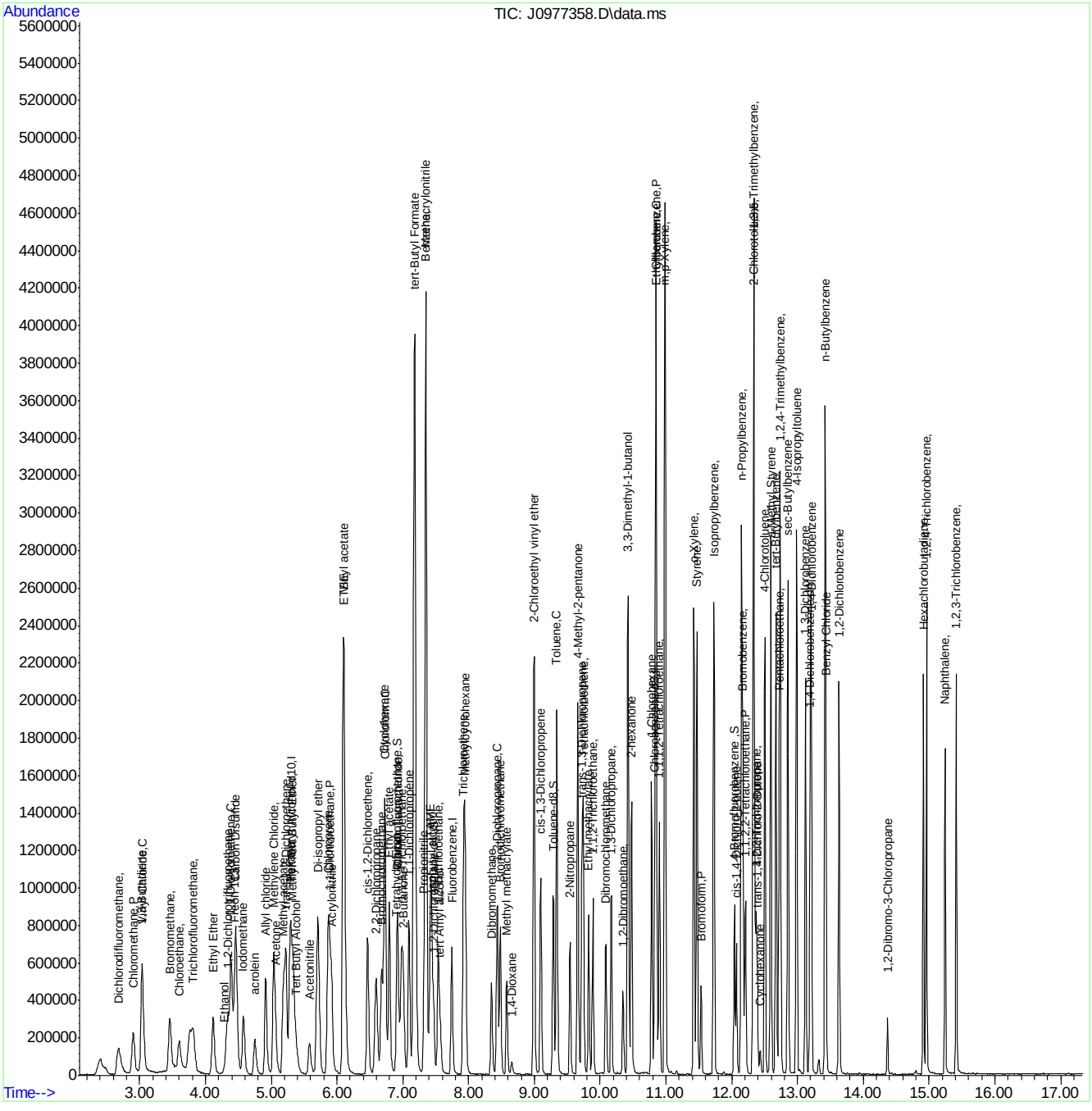
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:26:08 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

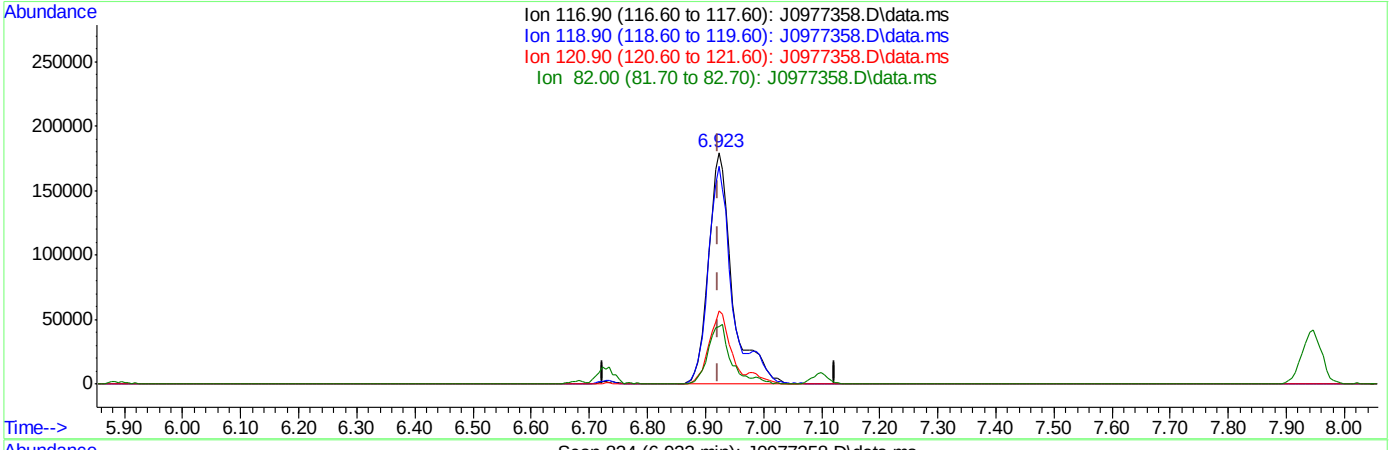
Sample Number:	VJ5340-IC5340	**Method:**	SW846 8260B
Lab FileID:	J0977358.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 10:55	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

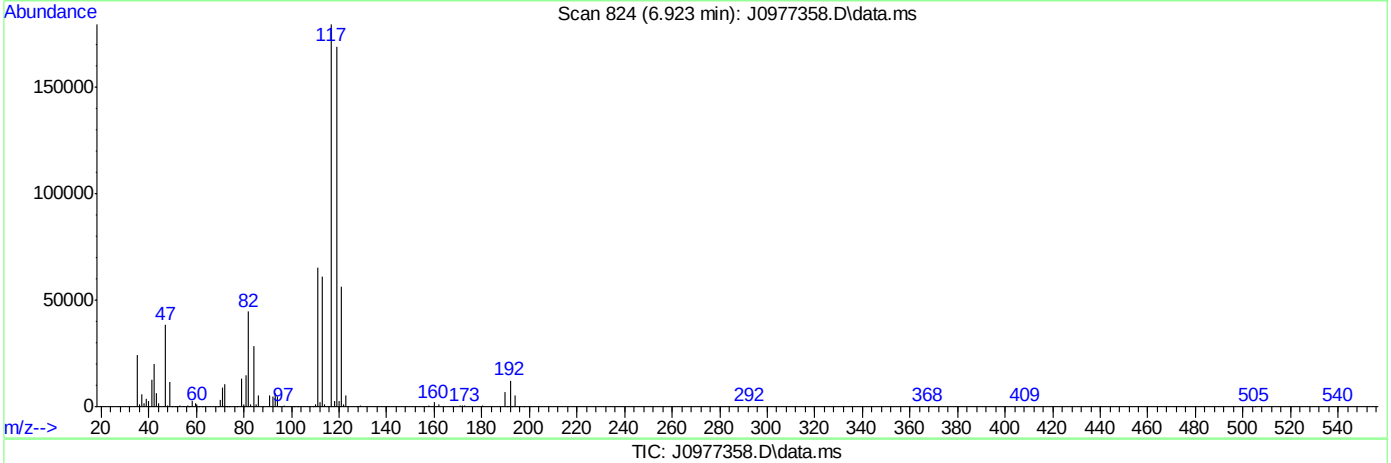
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:25:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977358.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (0.000) 125.87ug/L

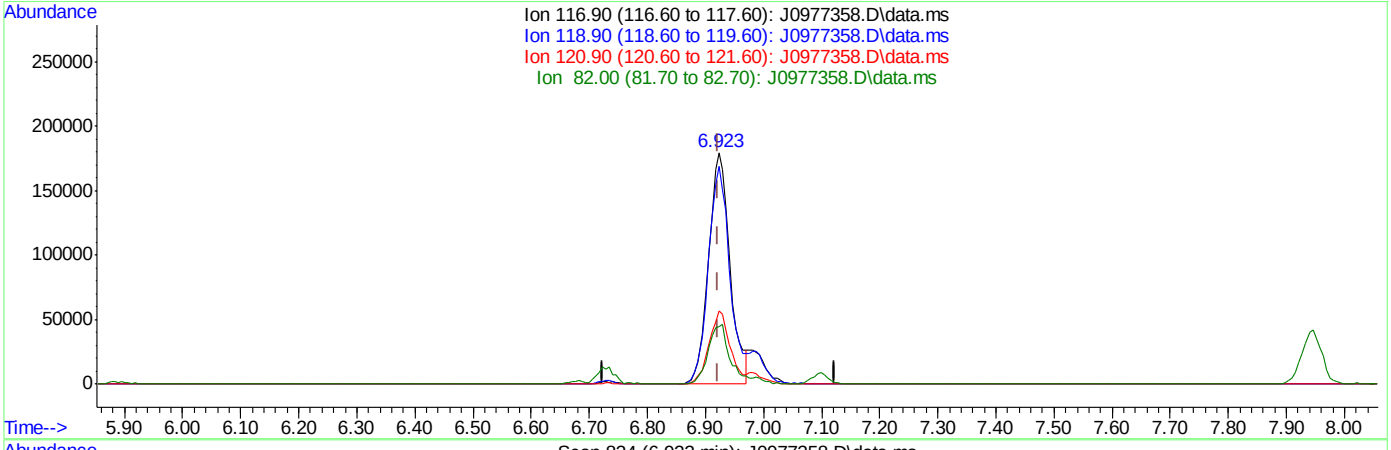
response 516469

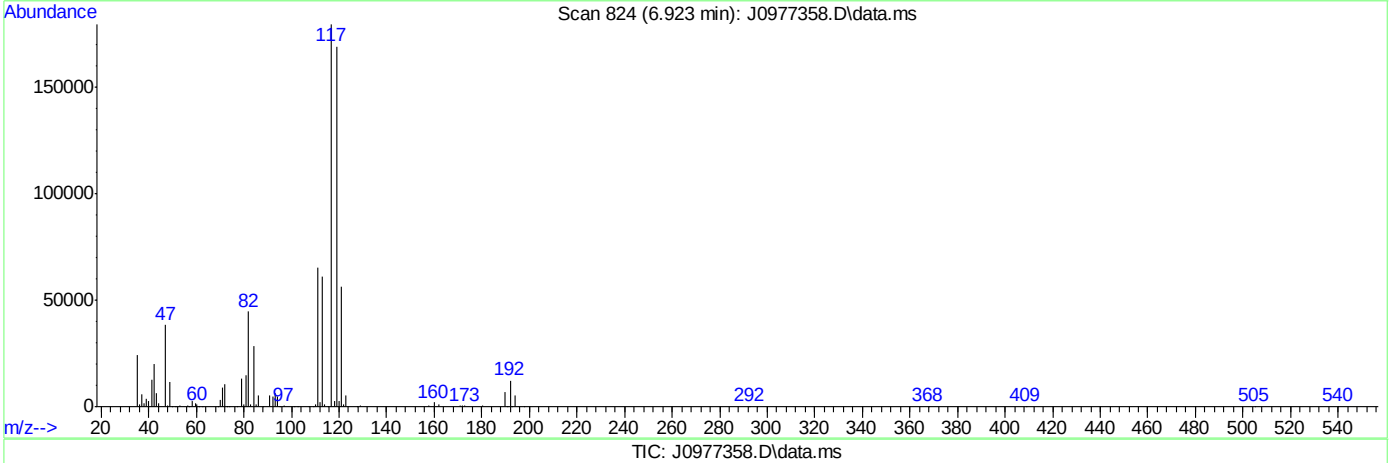
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	94.02
120.90	28.00	31.41
82.00	26.30	24.90

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:25:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977358.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (0.000) 112.81ug/L m

response 462866

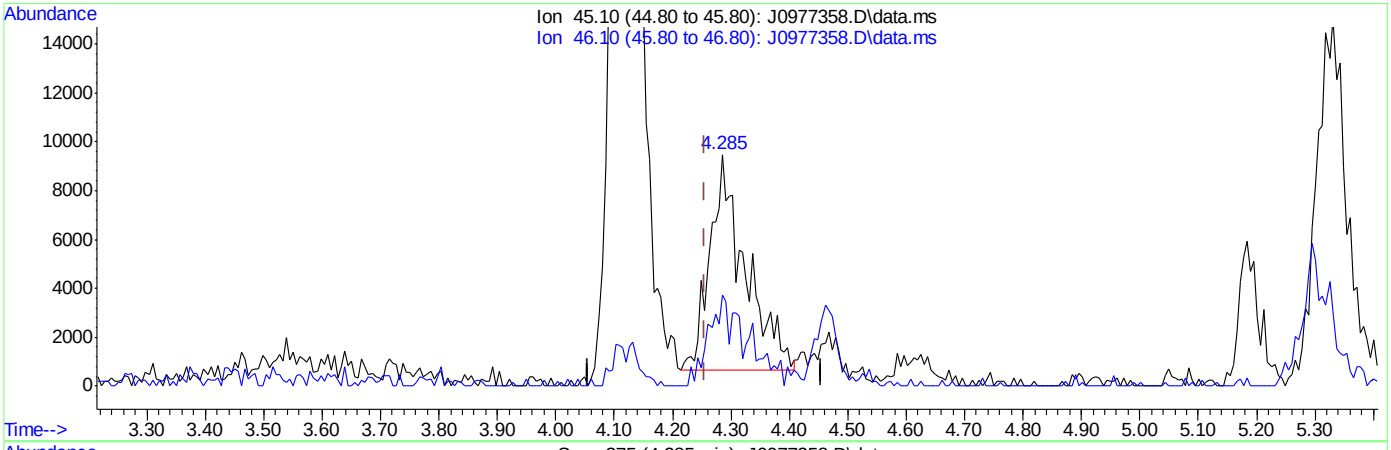
Ion	Exp%	Act%
116.90	100	100
118.90	93.00	94.02
120.90	28.00	31.41
82.00	26.30	24.90

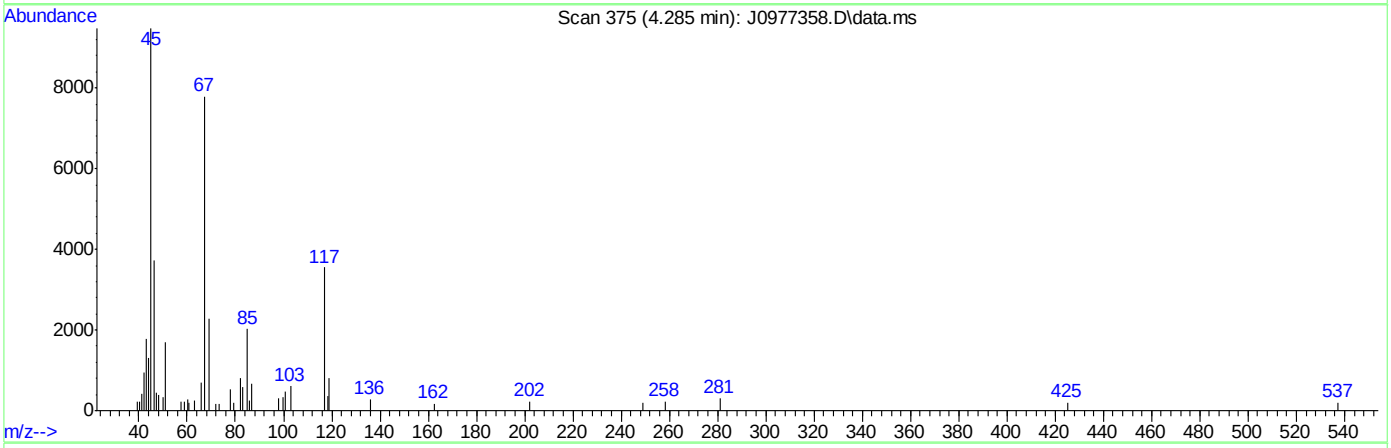
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:25:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977358.D\data.ms

(107) Ethanol

4.285min (+0.029) 1723.50ug/L

response 36795

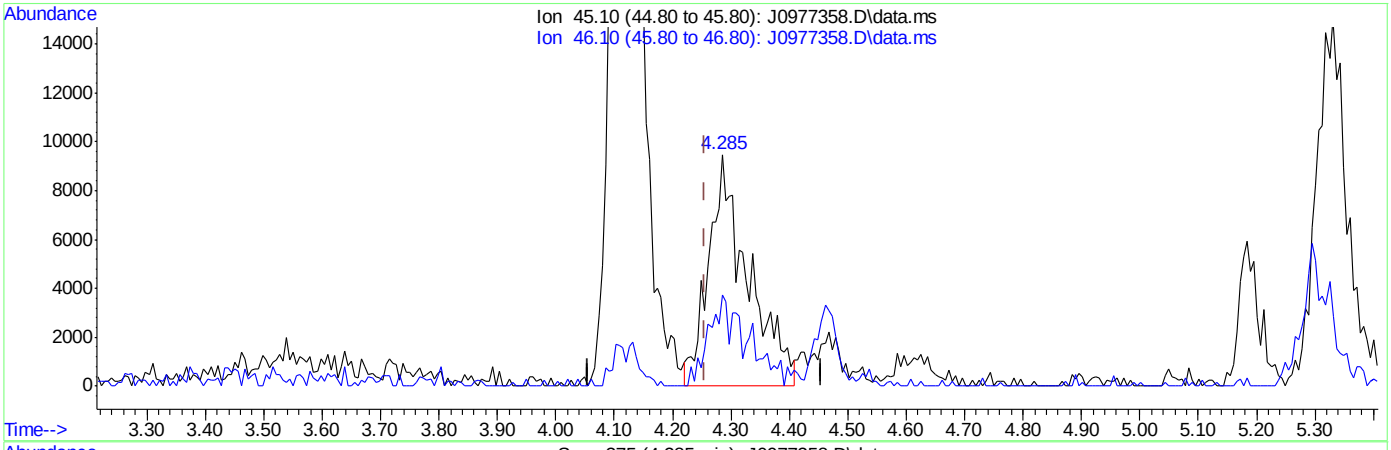
Ion	Exp%	Act%
45.10	100	100
46.10	36.70	42.18
0.00	0.00	0.00
0.00	0.00	0.00

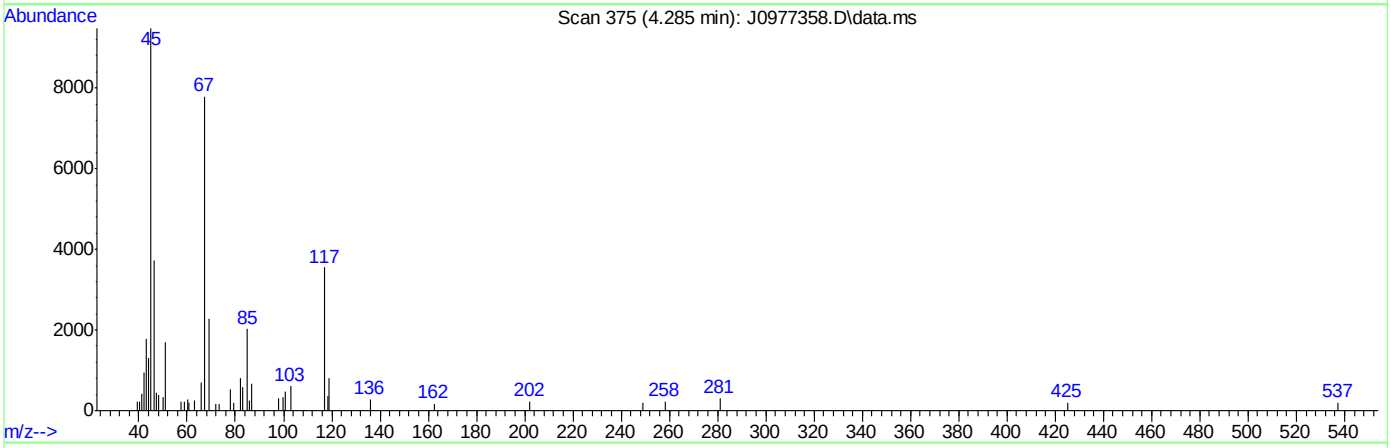
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977358.D
Acq On : 21 Jun 2016 10:55 am
Operator : darshnap
Sample : ic5340-7 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 21 11:25:50 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Mon Jun 20 14:13:55 2016
Response via : Initial Calibration





TIC: J0977358.D\data.ms

(107) Ethanol

4.285min (+0.029) 2066.42ug/L m

response 44116

Ion	Exp%	Act%
45.10	100	100
46.10	36.70	39.25
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/22/16 11:19

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 13:21:48 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	556517	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	410904	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	219190	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	43624	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	148807	50.80	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.60%			
46) 1,2-Dichloroethane-d4	7.464	65	218079	51.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 102.04%			
57) Toluene-d8	9.285	98	551611	50.79	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.58%			
79) 4-Bromofluorobenzene	12.041	95	207440	49.26	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.52%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	143686	37.00	ug/L	98
3) Chloromethane	2.887	50	150019	37.78	ug/L	95
4) Vinyl Chloride	3.028	62	145807	37.17	ug/L	92
6) Bromomethane	3.445	94	111512	33.81	ug/L	96
7) Chloroethane	3.598	64	95291	37.27	ug/L	90
8) Trichlorofluoromethane	3.809	101	258987	39.01	ug/L	96
9) Ethyl Ether	4.115	59	98542	37.24	ug/L	84
10) 1,2-Dichlorotrifluoroe...	4.338	67	159607	47.00	ug/L	93
11) 1,1-Dichloroethene	4.379	61	196790	39.76	ug/L	98
12) Freon 113	4.438	101	120872	40.31	ug/L	91
13) Carbon Disulfide	4.455	76	402341	43.19	ug/L	99
14) Iodomethane	4.567	142	175736	36.67	ug/L	99
15) Allyl chloride	4.908	41	158504	37.03	ug/L	98
16) Methylene Chloride	5.031	49	179243	40.11	ug/L	98
17) Acetone	5.055	58	40133	216.80	ug/L	93
18) Methyl acetate	5.178	74	70095	207.32	ug/L	91
19) trans-1,2-Dichloroethene	5.213	61	188692	45.39	ug/L	97
20) Hexane	5.284	56	118747	42.70	ug/L	91
21) Methyl Tert Butyl Ether	5.325	73	328843	36.57	ug/L	93
22) Acetonitrile	5.572	40	49748	359.58	ug/L #	82
23) Di-isopropyl ether	5.707	45	415013	38.48	ug/L	94
24) Chloroprene	5.860	53	201131	34.93	ug/L	92
25) 1,1-Dichloroethane	5.883	63	239497	42.78	ug/L	100
26) Acrylonitrile	5.913	53	165547	205.54	ug/L	97
27) ETBE	6.101	59	417539	37.01	ug/L	95
28) Vinyl acetate	6.089	43	1029239	173.43	ug/L	99
29) cis-1,2-Dichloroethene	6.459	96	136287	39.86	ug/L	82
30) 2,2-Dichloropropane	6.594	77	203842	43.07	ug/L	97
31) Bromochloromethane	6.670	128	58581	39.11	ug/L	93
32) Cyclohexane	6.712	56	217861	41.45	ug/L	96
33) Chloroform	6.723	83	243333	38.71	ug/L	94
34) Ethyl acetate	6.788	43	423633	196.27	ug/L	99
35) Tetrahydrofuran	6.905	42	22369	36.02	ug/L	87

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 13:21:48 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	Carbon Tetrachloride	6.917	117	190602	41.71	ug/L		95
38)	1,1,1-Trichloroethane	6.976	97	221511	39.44	ug/L		93
39)	2-Butanone	7.005	43	179156	210.57	ug/L		96
40)	1,1-Dichloropropene	7.088	75	161994	39.60	ug/L		90
41)	tert-Butyl Formate	7.176	59	873507	445.91	ug/L		98
42)	Propionitrile	7.317	54	121505	403.59	ug/L		92
43)	Methacrylonitrile	7.346	41	547675	400.05	ug/L		97
44)	Benzene	7.340	78	458526	40.43	ug/L		96
45)	TAME	7.417	73	323194	35.76	ug/L		88
47)	1,2-Dichloroethane	7.534	62	192600	37.58	ug/L		94
48)	Trichloroethene	7.916	95	123321	39.89	ug/L		88
49)	Methylcyclohexane	7.940	83	214020	39.70	ug/L		95
50)	Dibromomethane	8.345	93	72128	41.37	ug/L		92
51)	1,2-Dichloropropane	8.433	63	122444	40.63	ug/L		97
52)	Bromodichloromethane	8.480	83	172554	37.25	ug/L		91
53)	Methyl methacrylate	8.580	41	89069	41.88	ug/L		91
54)	2-Chloroethyl vinyl ether	8.991	63	342672	212.51	ug/L		93
55)	cis-1,3-Dichloropropene	9.097	75	191060	38.23	ug/L		94
58)	Toluene	9.338	91	488693	38.55	ug/L		100
59)	2-Nitropropane	9.538	41	129765	177.84	ug/L		94
60)	4-Methyl-2-pentanone	9.655	43	420032	206.27	ug/L		97
61)	trans-1,3-Dichloropropene	9.720	75	185425	42.69	ug/L		94
62)	Tetrachloroethene	9.743	166	119389	37.86	ug/L		96
63)	Ethyl methacrylate	9.826	69	111896	34.78	ug/L		96
64)	1,1,2-Trichloroethane	9.884	83	81591	39.08	ug/L		87
65)	Dibromochloromethane	10.084	129	109560	35.58	ug/L		96
66)	1,3-Dichloropropane	10.166	76	165592	37.18	ug/L		97
67)	1,2-Dibromoethane	10.349	107	100209	39.93	ug/L		88
68)	2-hexanone	10.478	43	295262	213.31	ug/L		98
69)	1-Chlorohexane	10.777	91	165119	40.31	ug/L		97
70)	Ethylbenzene	10.848	91	593142	38.69	ug/L		97
71)	Chlorobenzene	10.848	112	318726	39.45	ug/L		94
72)	1,1,1,2-Tetrachloroethane	10.901	131	123862	43.81	ug/L		95
73)	m,p-Xylene	10.983	91	926210	78.15	ug/L		96
74)	o-Xylene	11.424	91	474805	38.44	ug/L		96
75)	Styrene	11.471	104	351969	38.03	ug/L		97
76)	Bromoform	11.535	173	66520	37.15	ug/L		95
77)	Isopropylbenzene	11.729	105	587709	40.83	ug/L		98
80)	cis-1,4-Dichloro-2-butene	12.070	53	36952	34.32	ug/L		94
81)	n-Propylbenzene	12.147	91	712899	40.79	ug/L		98
82)	Bromobenzene	12.170	156	132683	38.48	ug/L		99
83)	1,1,2,2-Tetrachloroethane	12.205	83	118589	39.69	ug/L		96
84)	1,3,5-Trimethylbenzene	12.329	105	502740	38.71	ug/L		97
85)	2-Chlorotoluene	12.340	91	472193	38.56	ug/L		96
86)	trans-1,4-Dichloro-2-B...	12.387	53	37883	37.21	ug/L	#	67
87)	1,2,3-Trichloropropane	12.364	110	34766	39.54	ug/L		91
88)	Cyclohexanone	12.440	55	19033	256.08	ug/L		94
89)	4-Chlorotoluene	12.505	91	443551	38.78	ug/L		97
90)	a-Methyl Styrene	12.675	118	3708	0.60	ug/L	#	1
91)	tert-Butylbenzene	12.669	91	295375	39.07	ug/L		98

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 13:21:48 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.740	105	504028	38.41	ug/L		99
93)	Pentachloroethane	12.722	167	86500	43.72	ug/L		91
94)	sec-Butylbenzene	12.857	105	641099	41.26	ug/L		98
95)	4-Isopropyltoluene	12.987	119	529236	40.22	ug/L		99
96)	1,3-Dichlorobenzene	13.122	146	251102	40.27	ug/L		94
97)	1,4-Dichlorobenzene	13.204	146	249158	39.32	ug/L		96
98)	n-Butylbenzene	13.416	92	308600	41.05	ug/L		86
99)	Benzyl Chloride	13.433	126	42567	38.93	ug/L	#	62
100)	1,2-Dichlorobenzene	13.633	146	230134	38.98	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.367	75	19651	37.84	ug/L		90
102)	Hexachlorobutadiene	14.914	225	102465	40.20	ug/L		88
103)	1,2,4-Trichlorobenzene	14.961	180	173806	36.78	ug/L		95
104)	Naphthalene	15.243	128	303371	42.73	ug/L		97
105)	1,2,3-Trichlorobenzene	15.413	180	142487	39.84	ug/L		97
107)	Ethanol	4.273	45	18467m	811.02	ug/L		
108)	acrolein	4.743	56	84869	182.26	ug/L		84
109)	Tert Butyl Alcohol	5.366	59	87746	352.32	ug/L		95
110)	tert Amyl alcohol	7.564	59	64537	331.61	ug/L		92
111)	Isobutyl alcohol	7.440	42	55718	740.91	ug/L	#	75
112)	1,4-Dioxane	8.656	88	16096	724.64	ug/L	#	47
113)	3,3-Dimethyl-1-butanol	10.419	57	370079	2052.83	ug/L		98

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

7.6.8

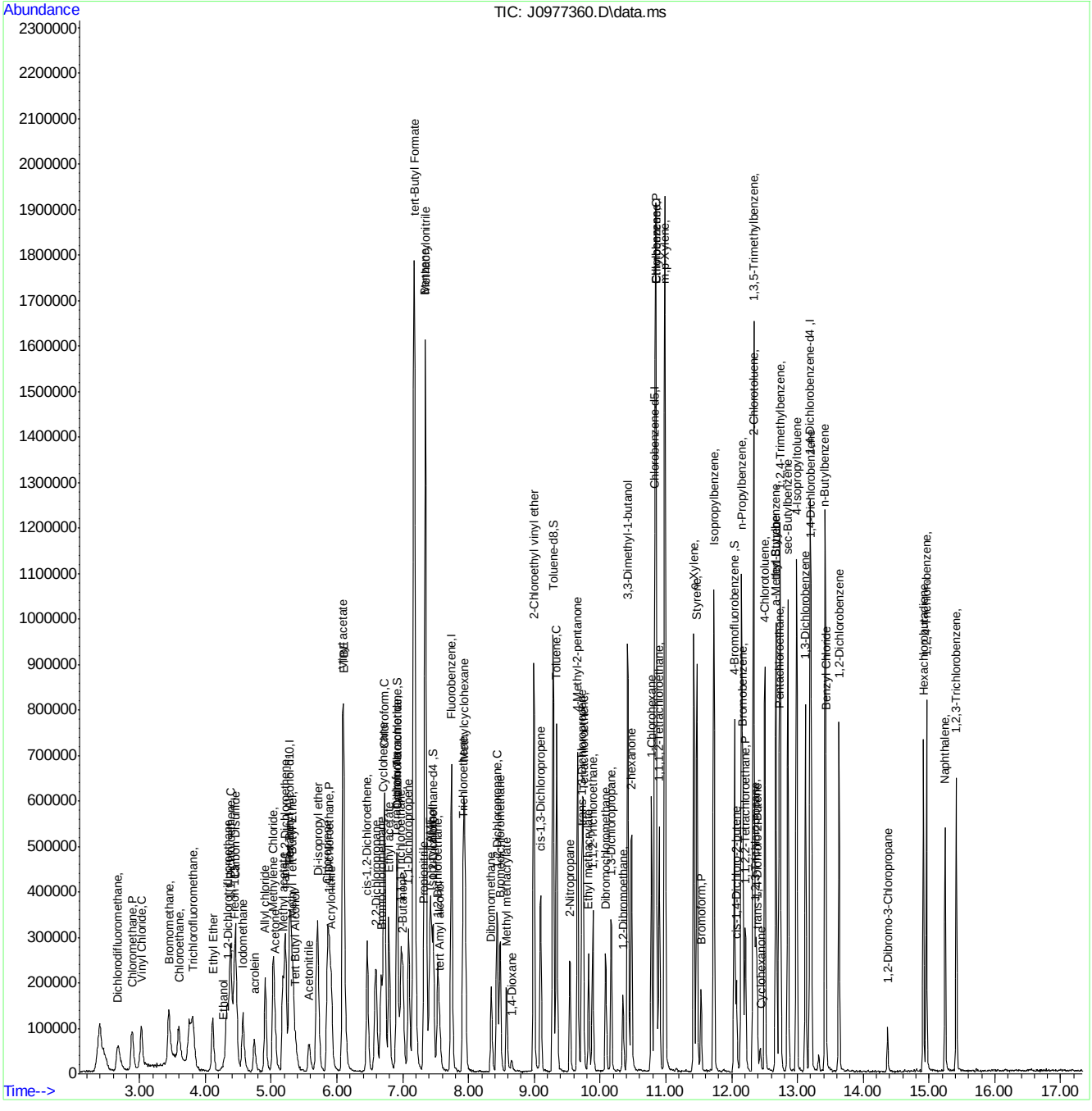
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 13:21:48 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

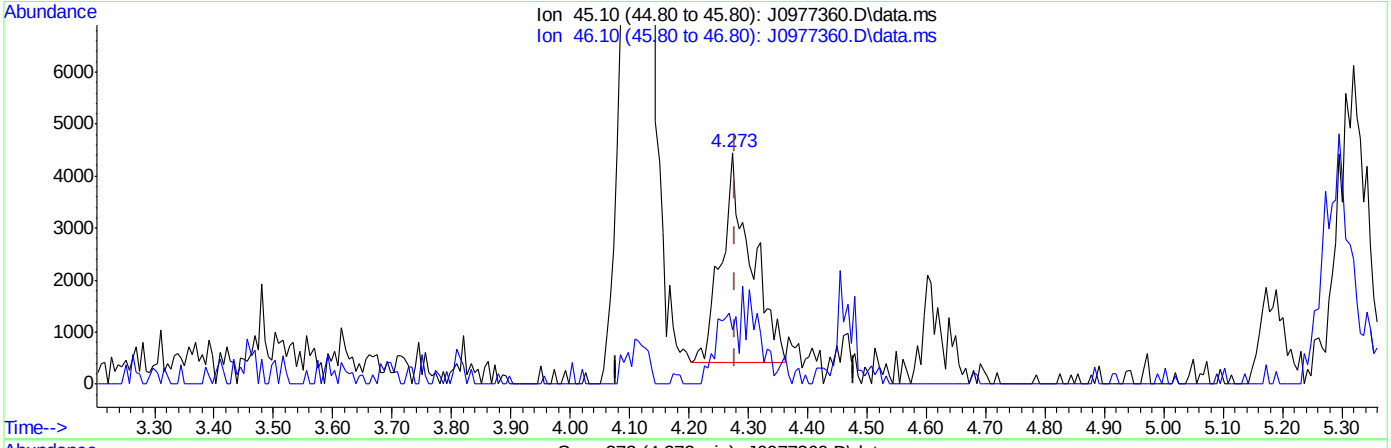
Sample Number:	VJ5340-ICV5340	**Method:**	SW846 8260B
Lab FileID:	J0977360.D	**Analyst approved:**	06/22/16 10:10 Darshna Patel
Injection Time:	06/21/16 11:51	**Supervisor approved:**	06/22/16 11:19 Juan Garcia

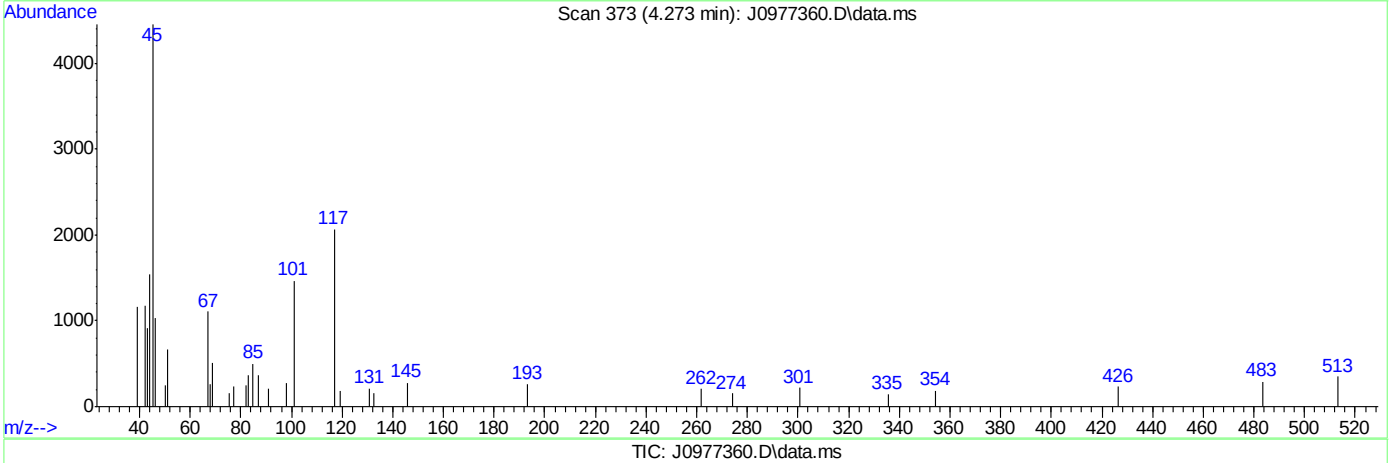
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 12:25:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977360.D\data.ms

(107) Ethanol

4.273min (-0.006) 626.87ug/L

response 14274

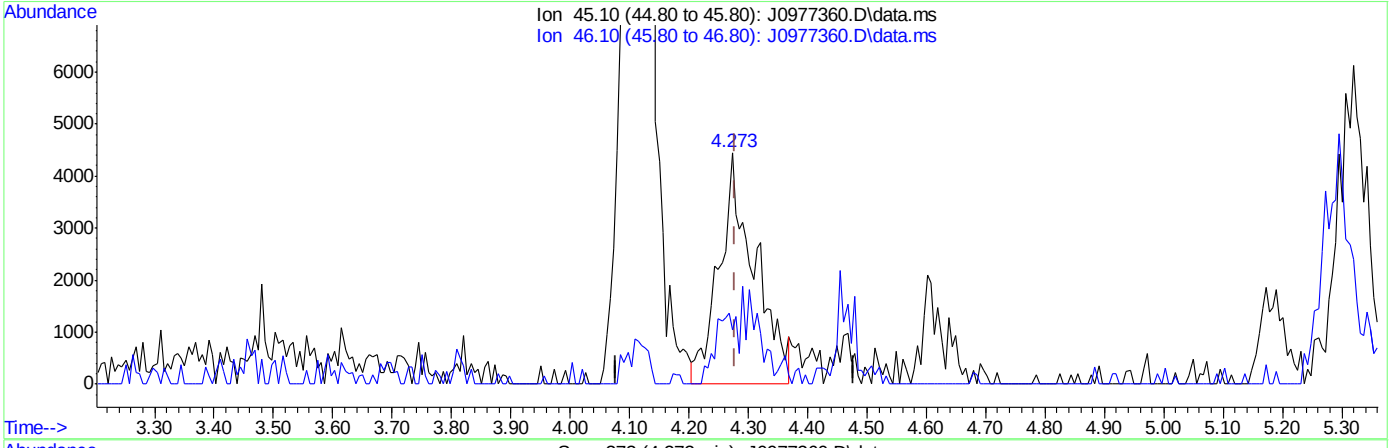
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	25.53
0.00	0.00	0.00
0.00	0.00	0.00

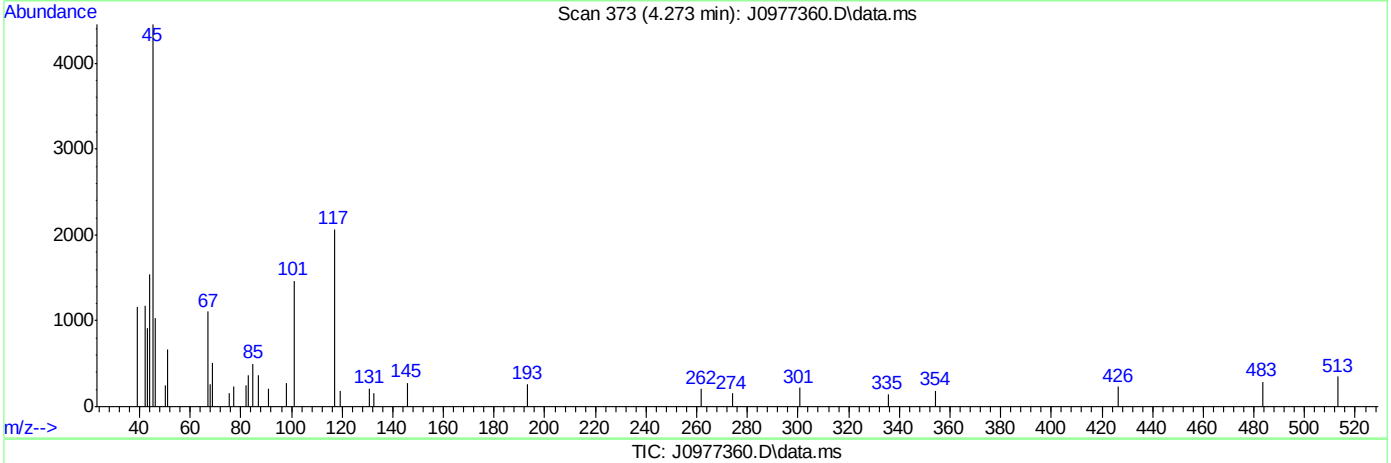
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062116\
Data File : J0977360.D
Acq On : 21 Jun 2016 11:51 am
Operator : darshnap
Sample : icv5340-5 Inst : MSVOA6
Misc : MS34179,vj5340,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 21 12:25:57 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977360.D\data.ms

(107) Ethanol

4.273min (-0.006) 811.02ug/L m

response 18467

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	23.19
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/24/16 13:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977462.D
Acq On : 23 Jun 2016 9:30 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 14:12:59 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	438132	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	315595	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	166911	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	32425	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	119872	51.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.96%			
46) 1,2-Dichloroethane-d4	7.464	65	186403	55.39	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.78%			
57) Toluene-d8	9.285	98	418580	50.18	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.36%			
79) 4-Bromofluorobenzene	12.041	95	178692	55.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	104291	33.95	ug/L	83
3) Chloromethane	2.886	50	123080	39.45	ug/L	90
4) Vinyl Chloride	3.033	62	116659	37.81	ug/L	98
5) 1,3-Butadiene	3.028	54	98037	43.17	ug/L #	86
6) Bromomethane	3.451	94	104072	40.68	ug/L	97
7) Chloroethane	3.597	64	79043	39.64	ug/L	88
8) Trichlorofluoromethane	3.815	101	229415	44.18	ug/L	97
9) Ethyl Ether	4.103	59	94599	45.41	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.350	67	115522	43.21	ug/L	87
11) 1,1-Dichloroethene	4.385	61	161796	41.63	ug/L	96
12) Freon 113	4.449	101	95749	40.57	ug/L	84
13) Carbon Disulfide	4.461	76	316955	43.22	ug/L	94
14) Iodomethane	4.573	142	146126	38.73	ug/L	94
15) Allyl chloride	4.914	41	148704	44.12	ug/L	89
16) Methylene Chloride	5.031	49	169798	48.26	ug/L	95
17) Acetone	5.055	58	31266	214.54	ug/L	87
18) Methyl acetate	5.178	74	49072	184.35	ug/L #	66
19) trans-1,2-Dichloroethene	5.213	61	135691	41.46	ug/L	90
20) Hexane	5.278	56	100504	45.90	ug/L #	90
21) Methyl Tert Butyl Ether	5.331	73	282592	39.92	ug/L	92
22) Acetonitrile	5.578	40	48619	447.72	ug/L	86
23) Di-isopropyl ether	5.707	45	356021	41.92	ug/L	95
24) Chloroprene	5.854	53	188280	41.86	ug/L	93
25) 1,1-Dichloroethane	5.889	63	187538	42.55	ug/L	84
26) Acrylonitrile	5.912	53	123385	194.40	ug/L	95
27) ETBE	6.106	59	367108	41.33	ug/L	97
28) Vinyl acetate	6.089	43	1055376	225.88	ug/L	100
29) cis-1,2-Dichloroethene	6.459	96	101366	37.66	ug/L	95
30) 2,2-Dichloropropane	6.594	77	159936	42.93	ug/L	98
31) Bromochloromethane	6.670	128	44575	37.80	ug/L	88
32) Cyclohexane	6.723	56	169087	40.87	ug/L	97
33) Chloroform	6.723	83	200724	40.62	ug/L	91
34) Ethyl acetate	6.788	43	373366	219.72	ug/L	96

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977462.D
Acq On : 23 Jun 2016 9:30 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 14:12:59 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	21740	44.47 ug/L	87
37) Carbon Tetrachloride	6.917	117	149116m	41.45 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	192808	43.61 ug/L	97
39) 2-Butanone	7.005	43	147871	220.76 ug/L	96
40) 1,1-Dichloropropene	7.088	75	139409	43.29 ug/L	92
41) tert-Butyl Formate	7.176	59	590065	384.39 ug/L	89
42) Propionitrile	7.311	54	91942	387.91 ug/L	95
43) Methacrylonitrile	7.340	41	457324	424.32 ug/L	97
44) Benzene	7.346	78	353968	39.63 ug/L	98
45) TAME	7.422	73	279030	39.21 ug/L	95
47) 1,2-Dichloroethane	7.528	62	182778	45.62 ug/L	98
48) Trichloroethene	7.922	95	99169	40.74 ug/L	92
49) Methylcyclohexane	7.945	83	174871	41.21 ug/L	90
50) Dibromomethane	8.345	93	57428	41.82 ug/L	95
51) 1,2-Dichloropropane	8.433	63	93249	39.30 ug/L	82
52) Bromodichloromethane	8.480	83	148949	40.84 ug/L	92
53) Methyl methacrylate	8.574	41	69357	41.42 ug/L	93
54) 2-Chloroethyl vinyl ether	8.991	63	278653	219.51 ug/L	98
55) cis-1,3-Dichloropropene	9.091	75	154912	39.38 ug/L	87
58) Toluene	9.338	91	386394	39.74 ug/L	98
59) 2-Nitropropane	9.538	41	129810	231.63 ug/L	95
60) 4-Methyl-2-pentanone	9.655	43	369364	236.17 ug/L	96
61) trans-1,3-Dichloropropene	9.720	75	147357	44.17 ug/L	96
62) Tetrachloroethene	9.743	166	97789	40.37 ug/L	93
63) Ethyl methacrylate	9.826	69	100243	40.56 ug/L	96
64) 1,1,2-Trichloroethane	9.884	83	67118	41.98 ug/L	88
65) Dibromochloromethane	10.084	129	97620	41.27 ug/L	96
66) 1,3-Dichloropropane	10.172	76	146271	42.87 ug/L	95
67) 1,2-Dibromoethane	10.343	107	80228	41.64 ug/L	94
68) 2-hexanone	10.472	43	260939	245.44 ug/L	97
69) 1-Chlorohexane	10.783	91	137334	43.65 ug/L	97
70) Ethylbenzene	10.848	91	504767	42.87 ug/L	96
71) Chlorobenzene	10.848	112	256648	41.45 ug/L	86
72) 1,1,1,2-Tetrachloroethane	10.901	131	89731	41.33 ug/L	96
73) m,p-Xylene	10.983	91	764814	84.02 ug/L	98
74) o-Xylene	11.424	91	376835	39.77 ug/L	98
75) Styrene	11.471	104	269792	37.95 ug/L	97
76) Bromoform	11.529	173	53248	38.72 ug/L	93
77) Isopropylbenzene	11.729	105	431695	39.05 ug/L	96
80) cis-1,4-Dichloro-2-butene	12.070	53	35063	42.25 ug/L #	85
81) n-Propylbenzene	12.146	91	566048	42.53 ug/L	99
82) Bromobenzene	12.170	156	106997	40.81 ug/L	90
83) 1,1,2,2-Tetrachloroethane	12.205	83	95339	41.88 ug/L	92
84) 1,3,5-Trimethylbenzene	12.329	105	422396	42.71 ug/L	94
85) 2-Chlorotoluene	12.340	91	395867	42.46 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.381	53	36760	48.02 ug/L	90
87) 1,2,3-Trichloropropane	12.364	110	28497	42.55 ug/L	89
88) Cyclohexanone	12.434	55	12312	218.20 ug/L	89
89) 4-Chlorotoluene	12.505	91	375989	43.52 ug/L	96
90) a-Methyl Styrene	12.593	118	209406	44.30 ug/L	99

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977462.D
Acq On : 23 Jun 2016 9:30 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 14:12:59 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	258345	44.88 ug/L	100
92) 1,2,4-Trimethylbenzene	12.740	105	427409	42.78 ug/L	99
93) Pentachloroethane	12.722	167	61718	40.97 ug/L	91
94) sec-Butylbenzene	12.857	105	510531	43.15 ug/L	99
95) 4-Isopropyltoluene	12.987	119	395389	39.46 ug/L	99
96) 1,3-Dichlorobenzene	13.122	146	189274	39.85 ug/L	96
97) 1,4-Dichlorobenzene	13.210	146	192997	40.03 ug/L	97
98) n-Butylbenzene	13.421	92	244961	42.79 ug/L	96
99) Benzyl Chloride	13.433	126	34759	41.75 ug/L #	93
100) 1,2-Dichlorobenzene	13.633	146	184605	41.05 ug/L	90
101) 1,2-Dibromo-3-Chloropr...	14.367	75	18457	46.68 ug/L #	85
102) Hexachlorobutadiene	14.914	225	76157	39.24 ug/L	88
103) 1,2,4-Trichlorobenzene	14.961	180	143193	39.80 ug/L	97
104) Naphthalene	15.243	128	228751	42.36 ug/L	98
105) 1,2,3-Trichlorobenzene	15.413	180	112508	41.22 ug/L	97
107) Ethanol	4.279	45	14586	861.82 ug/L	99
108) acrolein	4.749	56	71808	208.21 ug/L #	72
109) Tert Butyl Alcohol	5.372	59	73219	395.84 ug/L	93
110) tert Amyl alcohol	7.552	59	54003	373.32 ug/L	87
111) Isobutyl alcohol	7.434	42	46971	841.75 ug/L	96
112) 1,4-Dioxane	8.656	88	12907	782.68 ug/L	69
113) 3,3-Dimethyl-1-butanol	10.419	57	298086	2212.64 ug/L	95

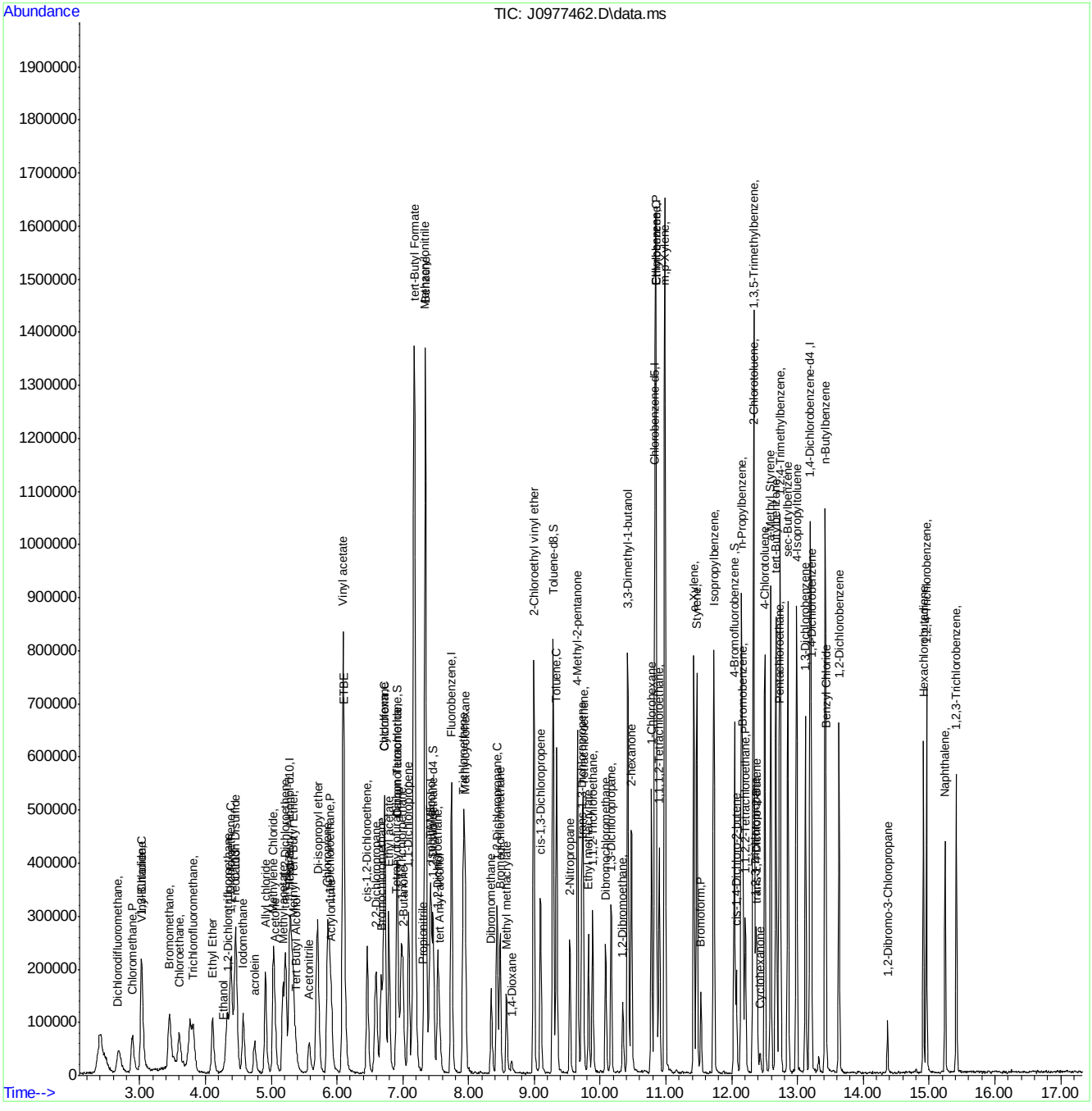
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977462.D
Acq On : 23 Jun 2016 9:30 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 14:12:59 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

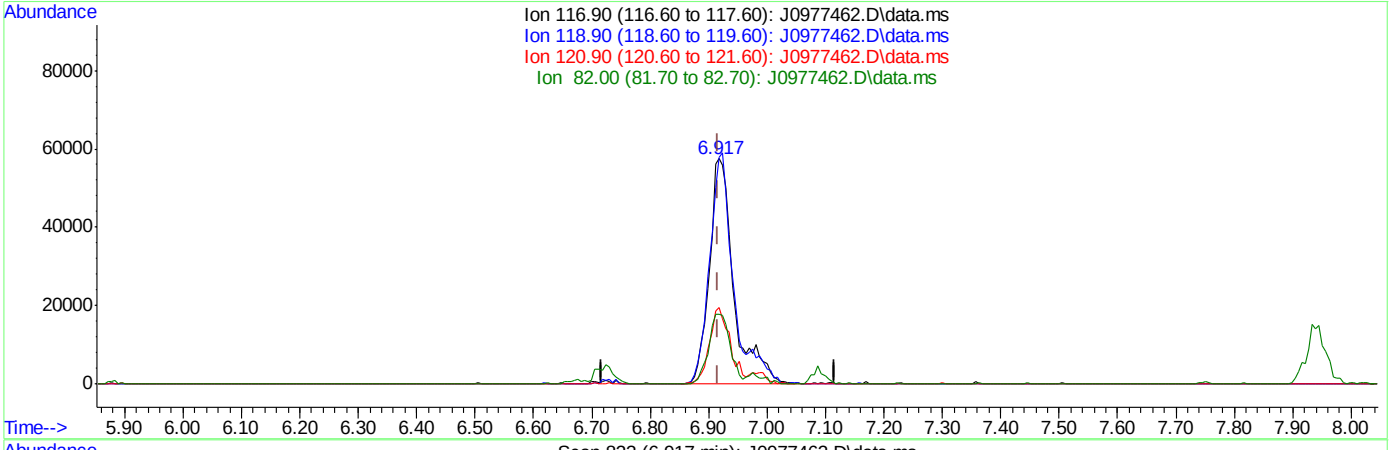
Sample Number:	VJ5345-CC5340	**Method:**	SW846 8260B
Lab FileID:	J0977462.D	**Analyst approved:**	06/24/16 10:43 Darshna Patel
Injection Time:	06/23/16 09:30	**Supervisor approved:**	06/24/16 13:49 Juan Garcia

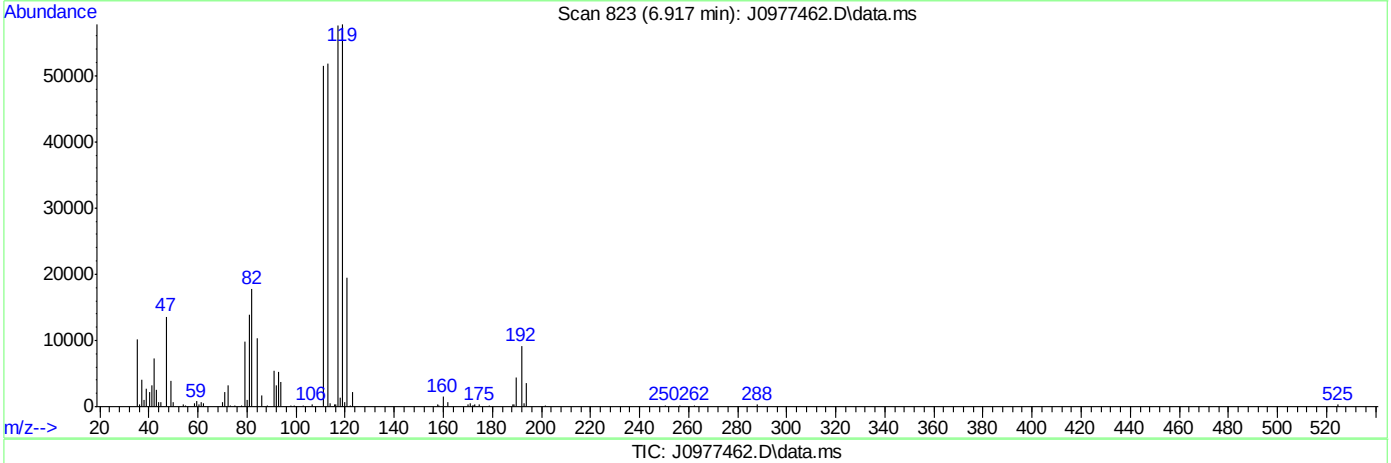
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977462.D
Acq On : 23 Jun 2016 9:30 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 14:12:19 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977462.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 46.69ug/L

response 167962

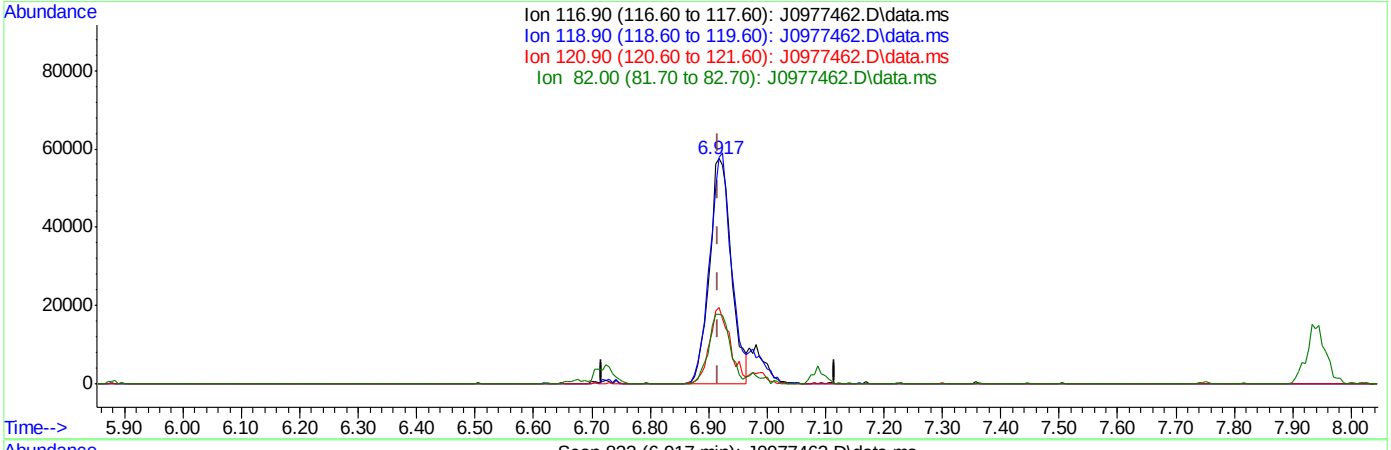
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	100.43
120.90	27.00	33.77
82.00	24.80	30.91

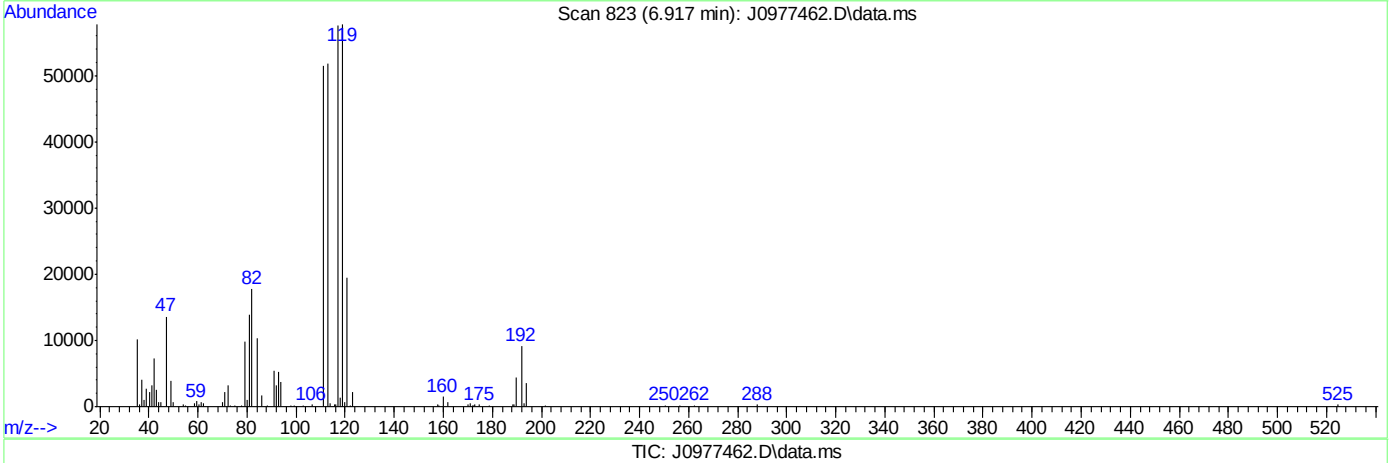
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977462.D
Acq On : 23 Jun 2016 9:30 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 23 14:12:19 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977462.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 41.45ug/L m

response 149116

Ion	Exp%	Act%
116.90	100	100
118.90	91.80	100.43
120.90	27.00	33.77
82.00	24.80	30.91

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/24/16 13:49

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977489.D
Acq On : 23 Jun 2016 7:57 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 08:18:43 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	592060	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.836	117	419804	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	225040	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	46207	250.00	ug/L	# 0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.917	113	141330	45.36	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 90.72%			
46) 1,2-Dichloroethane-d4	7.463	65	214849	47.25	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 94.50%			
57) Toluene-d8	9.285	98	568121	51.20	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.40%			
79) 4-Bromofluorobenzene	12.041	95	219687	50.81	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.62%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.663	85	138469	33.33	ug/L	99
3) Chloromethane	2.892	50	178223	42.43	ug/L	93
4) Vinyl Chloride	3.027	62	171111	41.27	ug/L	99
5) 1,3-Butadiene	3.027	54	138361	45.30	ug/L	96
6) Bromomethane	3.445	94	132382	38.07	ug/L	92
7) Chloroethane	3.597	64	105556	39.09	ug/L	91
8) Trichlorofluoromethane	3.821	101	281957	39.97	ug/L	88
9) Ethyl Ether	4.103	59	118894	42.23	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.332	67	157335	43.55	ug/L	91
11) 1,1-Dichloroethene	4.385	61	212872	40.47	ug/L	97
12) Freon 113	4.443	101	123868	38.75	ug/L	86
13) Carbon Disulfide	4.461	76	406901	41.06	ug/L	100
14) Iodomethane	4.573	142	188425	36.95	ug/L	92
15) Allyl chloride	4.913	41	192556	42.28	ug/L	99
16) Methylene Chloride	5.031	49	208086	43.77	ug/L	93
17) Acetone	5.060	58	47075	239.03	ug/L	88
18) Methyl acetate	5.172	74	84127	233.88	ug/L	95
19) trans-1,2-Dichloroethene	5.219	61	180385	40.79	ug/L	97
20) Hexane	5.284	56	136975	46.30	ug/L	95
21) Methyl Tert Butyl Ether	5.325	73	355094	37.12	ug/L	98
22) Acetonitrile	5.572	40	64062	436.39	ug/L	95
23) Di-isopropyl ether	5.701	45	466769	40.68	ug/L	96
24) Chloroprene	5.859	53	234328	38.40	ug/L	93
25) 1,1-Dichloroethane	5.883	63	239574	40.22	ug/L	98
26) Acrylonitrile	5.912	53	186261	217.60	ug/L	92
27) ETBE	6.106	59	471916	39.31	ug/L	95
28) Vinyl acetate	6.089	43	1243007	196.87	ug/L	100
29) cis-1,2-Dichloroethene	6.459	96	140184	38.54	ug/L	88
30) 2,2-Dichloropropane	6.588	77	168937	33.55	ug/L	93
31) Bromochloromethane	6.676	128	56756	35.62	ug/L #	80
32) Cyclohexane	6.717	56	234609	41.96	ug/L	93
33) Chloroform	6.717	83	250665	37.44	ug/L	95
34) Ethyl acetate	6.788	43	487497	212.30	ug/L	97

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977489.D
Acq On : 23 Jun 2016 7:57 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 08:18:43 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.905	42	31680	47.95	ug/L		80
37)	Carbon Tetrachloride	6.923	117	165363m	34.01	ug/L		
38)	1,1,1-Trichloroethane	6.982	97	218862	36.63	ug/L		90
39)	2-Butanone	7.011	43	204355	225.77	ug/L		97
40)	1,1-Dichloropropene	7.087	75	177593	40.81	ug/L		93
41)	tert-Butyl Formate	7.176	59	561860	273.15	ug/L	#	83
42)	Propionitrile	7.317	54	131484	410.51	ug/L		89
43)	Methacrylonitrile	7.346	41	625365	429.38	ug/L		99
44)	Benzene	7.346	78	474877	39.34	ug/L		99
45)	TAME	7.416	73	343766	35.75	ug/L		92
47)	1,2-Dichloroethane	7.528	62	204250	37.46	ug/L		95
48)	Trichloroethene	7.922	95	135897	41.32	ug/L		89
49)	Methylcyclohexane	7.945	83	221590	38.64	ug/L		90
50)	Dibromomethane	8.345	93	74554	40.23	ug/L		88
51)	1,2-Dichloropropane	8.433	63	132375	41.29	ug/L		99
52)	Bromodichloromethane	8.480	83	175931	35.70	ug/L		97
53)	Methyl methacrylate	8.574	41	96177	42.51	ug/L		96
54)	2-Chloroethyl vinyl ether	8.991	63	360583	210.20	ug/L		97
55)	cis-1,3-Dichloropropene	9.091	75	193740	36.44	ug/L		98
58)	Toluene	9.338	91	531955	41.19	ug/L		97
59)	2-Nitropropane	9.543	41	148759	199.55	ug/L		99
60)	4-Methyl-2-pentanone	9.655	43	506535	243.48	ug/L		97
61)	trans-1,3-Dichloropropene	9.720	75	172864	38.96	ug/L		91
62)	Tetrachloroethene	9.743	166	173701	53.91	ug/L		98
63)	Ethyl methacrylate	9.825	69	142761	43.43	ug/L		92
64)	1,1,2-Trichloroethane	9.884	83	91899	43.27	ug/L		86
65)	Dibromochloromethane	10.084	129	113686	36.13	ug/L		98
66)	1,3-Dichloropropane	10.166	76	188254	41.45	ug/L		99
67)	1,2-Dibromoethane	10.348	107	106640	41.61	ug/L		98
68)	2-hexanone	10.478	43	360506	254.92	ug/L		96
69)	1-Chlorohexane	10.783	91	174955	41.81	ug/L		96
70)	Ethylbenzene	10.848	91	621619	39.69	ug/L		94
71)	Chlorobenzene	10.854	112	327054	39.63	ug/L		97
72)	1,1,1,2-Tetrachloroethane	10.901	131	112905	39.09	ug/L		93
73)	m,p-Xylene	10.983	91	942350	77.82	ug/L		98
74)	o-Xylene	11.424	91	501670	39.80	ug/L		96
75)	Styrene	11.471	104	358222	37.88	ug/L		98
76)	Bromoform	11.529	173	63102	34.50	ug/L		94
77)	Isopropylbenzene	11.729	105	585172	39.80	ug/L		95
80)	cis-1,4-Dichloro-2-butene	12.076	53	41702	37.54	ug/L	#	86
81)	n-Propylbenzene	12.146	91	696446	38.81	ug/L		98
82)	Bromobenzene	12.170	156	131061	36.98	ug/L		97
83)	1,1,2,2-Tetrachloroethane	12.205	83	128438	41.85	ug/L		98
84)	1,3,5-Trimethylbenzene	12.328	105	500831	37.56	ug/L		99
85)	2-Chlorotoluene	12.340	91	460830	36.66	ug/L		97
86)	trans-1,4-Dichloro-2-B...	12.381	53	37843	36.16	ug/L	#	84
87)	1,2,3-Trichloropropane	12.370	110	33548	37.17	ug/L		92
88)	Cyclohexanone	12.434	55	15496	203.92	ug/L	#	75
89)	4-Chlorotoluene	12.505	91	420595	35.63	ug/L		96
90)	a-Methyl Styrene	12.593	118	249565	39.16	ug/L		96

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977489.D
Acq On : 23 Jun 2016 7:57 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 08:18:43 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.669	91	280970	36.20	ug/L	94
92)	1,2,4-Trimethylbenzene	12.740	105	491365	36.48	ug/L	98
93)	Pentachloroethane	12.722	167	33511	16.50	ug/L #	80
94)	sec-Butylbenzene	12.851	105	596889	37.42	ug/L	97
95)	4-Isopropyltoluene	12.987	119	509134	37.69	ug/L	100
96)	1,3-Dichlorobenzene	13.122	146	242784	37.84	ug/L	96
97)	1,4-Dichlorobenzene	13.204	146	240261	36.83	ug/L	97
98)	n-Butylbenzene	13.421	92	304358	39.44	ug/L	96
99)	Benzyl Chloride	13.433	126	36679	32.68	ug/L #	68
100)	1,2-Dichlorobenzene	13.633	146	218246	36.02	ug/L	93
101)	1,2-Dibromo-3-Chloropr...	14.367	75	20524	38.50	ug/L	84
102)	Hexachlorobutadiene	14.914	225	87002	33.25	ug/L	89
103)	1,2,4-Trichlorobenzene	14.961	180	157953	32.56	ug/L	95
104)	Naphthalene	15.243	128	277897	38.64	ug/L	96
105)	1,2,3-Trichlorobenzene	15.413	180	136107	37.24	ug/L	98
107)	Ethanol	4.255	45	22818m	946.08	ug/L	
108)	acrolein	4.743	56	98928	201.09	ug/L	84
109)	Tert Butyl Alcohol	5.372	59	103653	393.22	ug/L	82
110)	tert Amyl alcohol	7.563	59	76659	371.88	ug/L	91
111)	Isobutyl alcohol	7.434	42	65113	818.51	ug/L	92
112)	1,4-Dioxane	8.650	88	19295	821.72	ug/L	78
113)	3,3-Dimethyl-1-butanol	10.419	57	416997	2174.83	ug/L	94

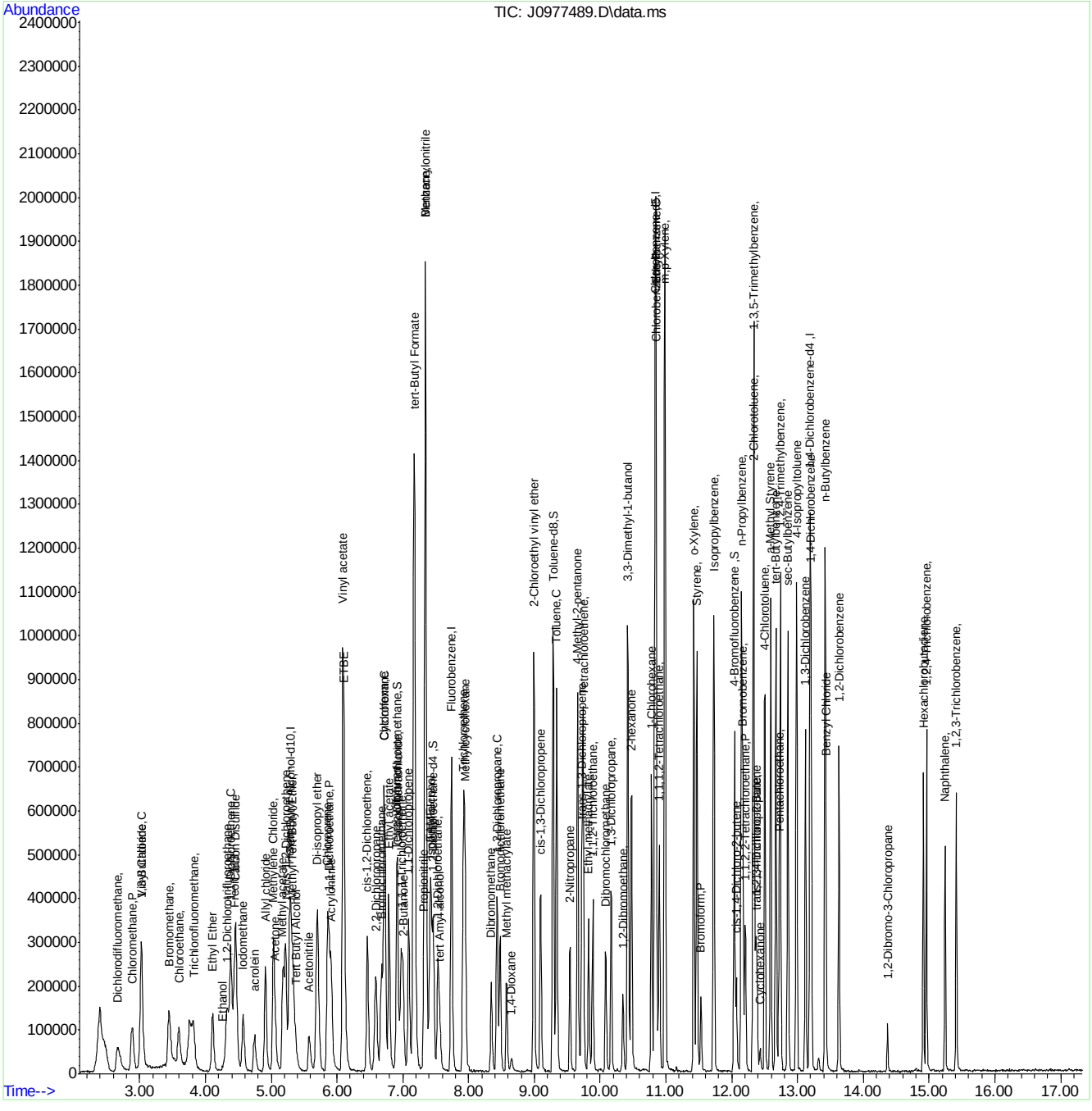
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977489.D
Acq On : 23 Jun 2016 7:57 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 08:18:43 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



MSJ062116a.M Fri Jun 24 08:53:27 2016 Page: 4

SGS ACCUTEST FA34821

Manual Integration Approval Summary

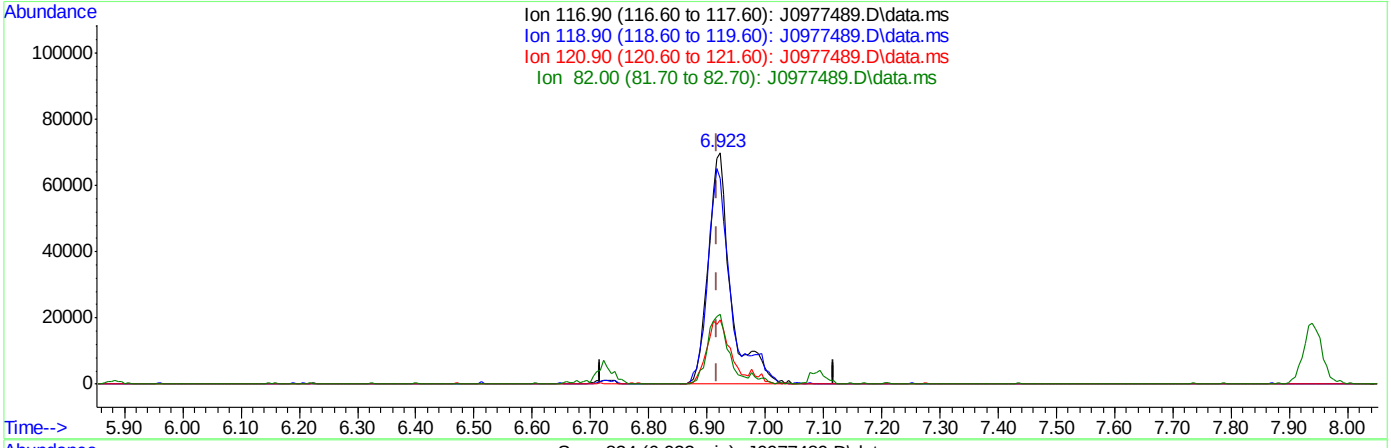
Sample Number:	VJ5345-ECC5340	**Method:**	SW846 8260B
Lab FileID:	J0977489.D	**Analyst approved:**	06/24/16 10:43 Darshna Patel
Injection Time:	06/23/16 19:57	**Supervisor approved:**	06/24/16 13:49 Juan Garcia

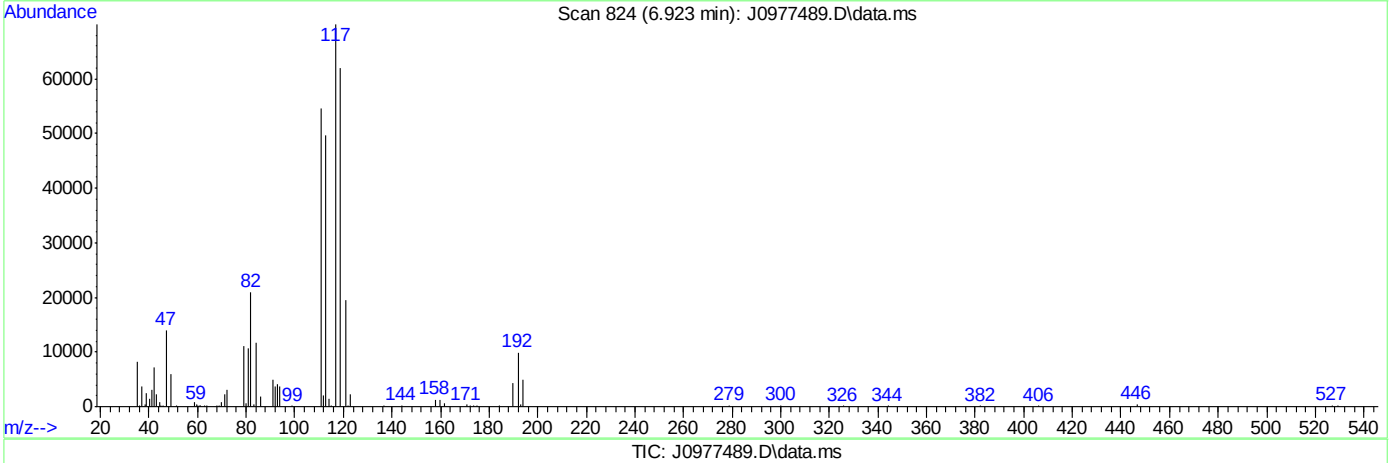
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977489.D
Acq On : 23 Jun 2016 7:57 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 08:00:29 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.923min (+0.006) 39.06ug/L

response 189887

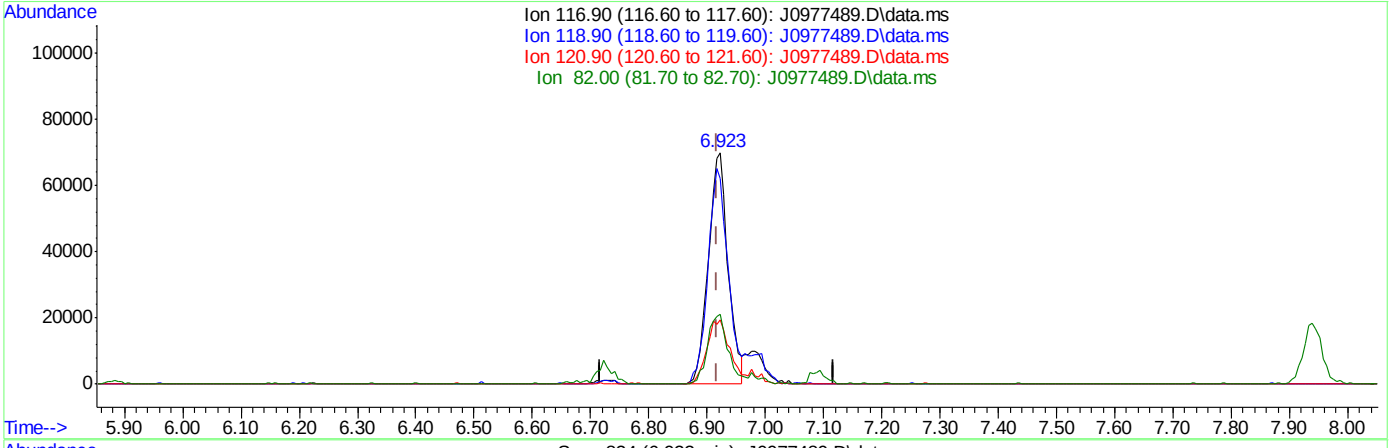
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	88.51
120.90	27.00	27.90
82.00	24.80	29.96

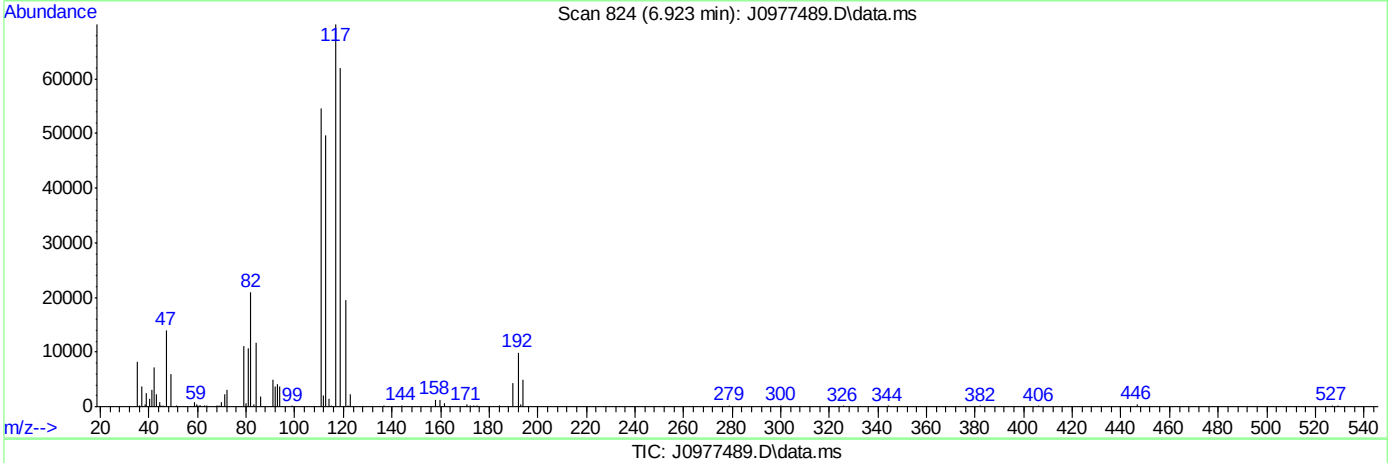
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977489.D
Acq On : 23 Jun 2016 7:57 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 08:00:29 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.923min (+0.006) 34.01ug/L m

response 165363

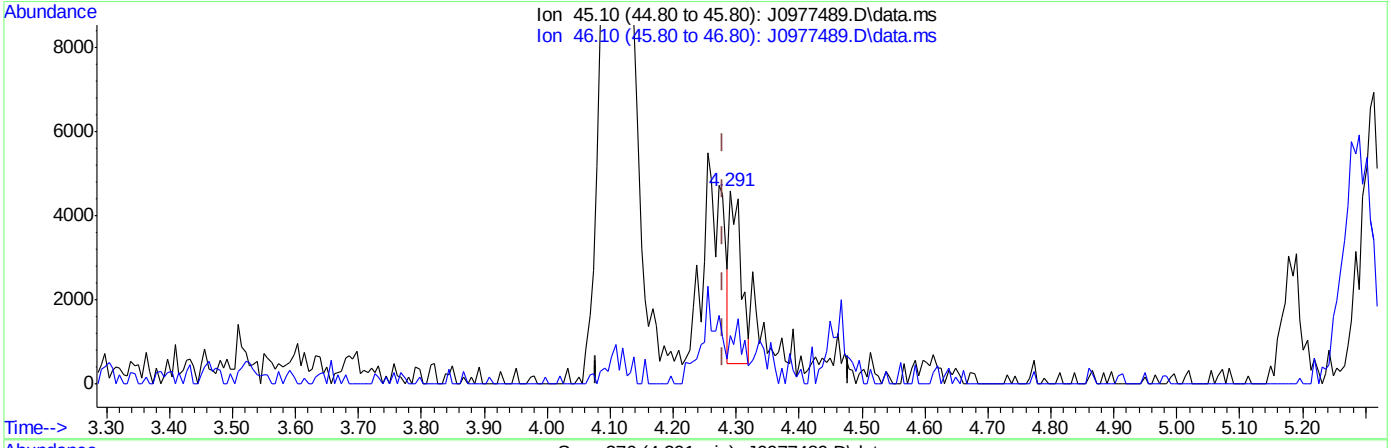
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	88.51
120.90	27.00	27.90
82.00	24.80	29.96

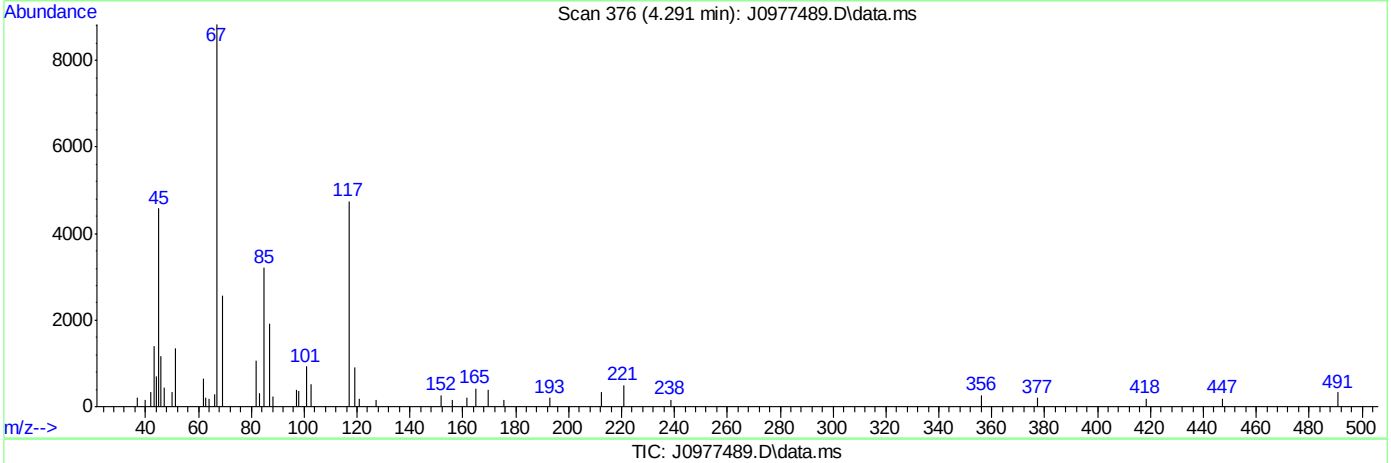
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977489.D
Acq On : 23 Jun 2016 7:57 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 08:00:29 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977489.D\data.ms

(107) Ethanol

4.291min (+0.012) 221.03ug/L

response 5331

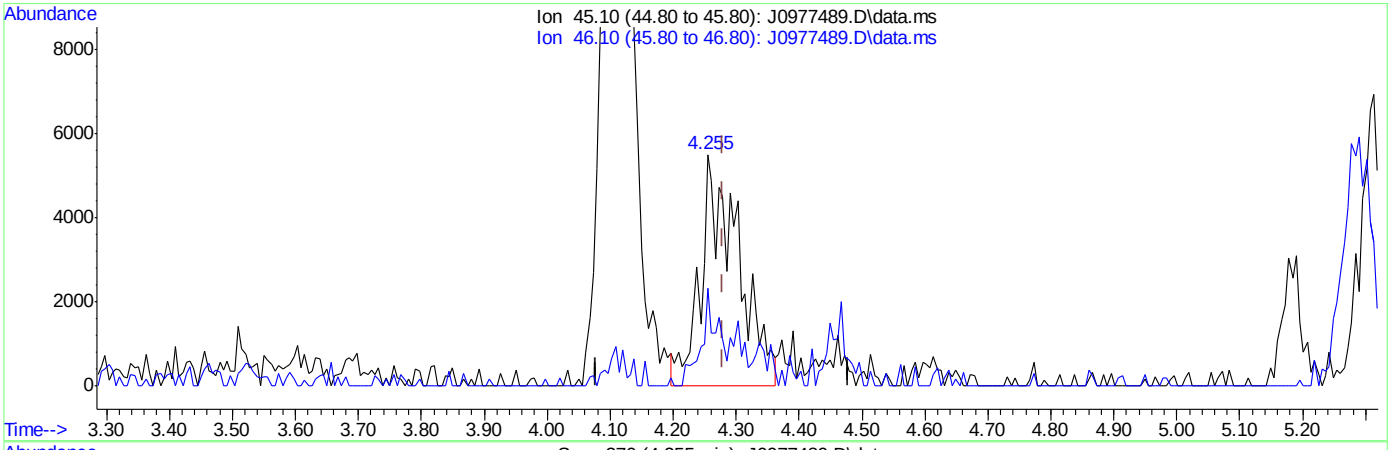
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	21.11
0.00	0.00	0.00
0.00	0.00	0.00

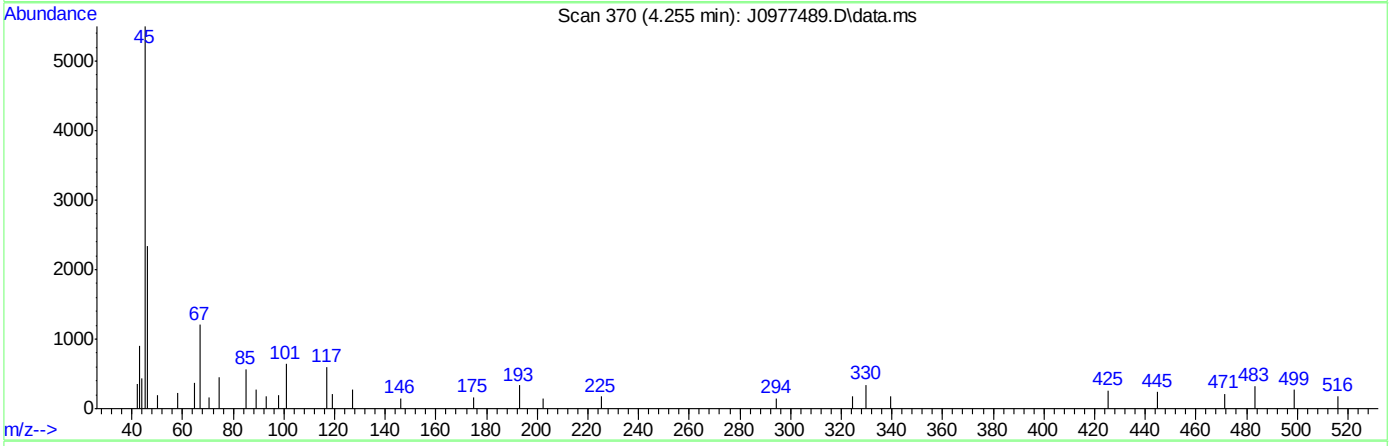
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062316\
Data File : J0977489.D
Acq On : 23 Jun 2016 7:57 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34215,vj5345,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 24 08:00:29 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977489.D\data.ms

(107) Ethanol

4.255min (-0.023) 946.08ug/L m

response 22818

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	42.43
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/27/16 10:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977492.D
Acq On : 24 Jun 2016 8:51 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5347,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 09:38:06 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	561953	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	388965	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	209995	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	45506	250.00	ug/L	# 0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	144812	48.96	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.92%			
46) 1,2-Dichloroethane-d4	7.464	65	217983	50.50	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.00%			
57) Toluene-d8	9.285	98	512196	49.82	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 99.64%			
79) 4-Bromofluorobenzene	12.041	95	210899	52.28	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	118807	29.97	ug/L	88
3) Chloromethane	2.892	50	162102	40.57	ug/L	98
4) Vinyl Chloride	3.033	62	151546	38.33	ug/L	95
5) 1,3-Butadiene	3.028	54	123838	42.45	ug/L	95
6) Bromomethane	3.456	94	131475	40.01	ug/L	94
7) Chloroethane	3.603	64	106960	42.27	ug/L	85
8) Trichlorofluoromethane	3.762	101	264686	39.50	ug/L	99
9) Ethyl Ether	4.115	59	120884	45.24	ug/L	93
10) 1,2-Dichlorotrifluoroe...	4.344	67	154569	45.08	ug/L	87
11) 1,1-Dichloroethene	4.379	61	216520	43.56	ug/L	94
12) Freon 113	4.444	101	128757	42.65	ug/L	99
13) Carbon Disulfide	4.467	76	409507	43.53	ug/L	89
14) Iodomethane	4.579	142	188661	38.98	ug/L	94
15) Allyl chloride	4.908	41	193638	44.80	ug/L	93
16) Methylene Chloride	5.031	49	216316	47.94	ug/L	95
17) Acetone	5.066	58	38694	207.00	ug/L	88
18) Methyl acetate	5.184	74	78768	230.71	ug/L #	79
19) trans-1,2-Dichloroethene	5.219	61	191464	45.62	ug/L	96
20) Hexane	5.284	56	133969	47.71	ug/L #	85
21) Methyl Tert Butyl Ether	5.331	73	387839	42.72	ug/L	91
22) Acetonitrile	5.572	40	61922	444.53	ug/L	90
23) Di-isopropyl ether	5.701	45	524546	48.16	ug/L	98
24) Chloroprene	5.860	53	241003	41.77	ug/L	94
25) 1,1-Dichloroethane	5.883	63	252033	44.58	ug/L	90
26) Acrylonitrile	5.912	53	193668	238.82	ug/L	97
27) ETBE	6.106	59	487406	42.78	ug/L	98
28) Vinyl acetate	6.089	43	1445314	241.18	ug/L	98
29) cis-1,2-Dichloroethene	6.465	96	137962	39.96	ug/L	87
30) 2,2-Dichloropropane	6.588	77	200490	41.95	ug/L	96
31) Bromochloromethane	6.670	128	58806	38.88	ug/L	95
32) Cyclohexane	6.723	56	228875	43.13	ug/L	94
33) Chloroform	6.729	83	259299	40.92	ug/L	96
34) Ethyl acetate	6.788	43	497253	228.15	ug/L	99

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977492.D
Acq On : 24 Jun 2016 8:51 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5347,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 09:38:06 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	31085	49.57 ug/L	90
37) Carbon Tetrachloride	6.917	117	178922	38.77 ug/L	95
38) 1,1,1-Trichloroethane	6.976	97	228544	40.30 ug/L	93
39) 2-Butanone	7.005	43	189817	220.95 ug/L	98
40) 1,1-Dichloropropene	7.088	75	176679	42.77 ug/L	88
41) tert-Butyl Formate	7.176	59	718463	365.43 ug/L	92
42) Propionitrile	7.317	54	127268	418.64 ug/L	81
43) Methacrylonitrile	7.346	41	608837	440.43 ug/L	96
44) Benzene	7.340	78	490237	42.84 ug/L	98
45) TAME	7.417	73	362957	39.77 ug/L	92
47) 1,2-Dichloroethane	7.528	62	218242	42.35 ug/L	90
48) Trichloroethene	7.916	95	126989	40.68 ug/L	93
49) Methylcyclohexane	7.940	83	223585	41.08 ug/L	93
50) Dibromomethane	8.345	93	72398	41.13 ug/L	86
51) 1,2-Dichloropropane	8.433	63	127149	41.78 ug/L	93
52) Bromodichloromethane	8.480	83	179640	38.41 ug/L	92
53) Methyl methacrylate	8.574	41	87577	40.78 ug/L	93
54) 2-Chloroethyl vinyl ether	8.991	63	327360	201.05 ug/L	97
55) cis-1,3-Dichloropropene	9.091	75	194808	38.61 ug/L	95
58) Toluene	9.338	91	502542	42.04 ug/L	97
59) 2-Nitropropane	9.538	41	144562	209.30 ug/L	97
60) 4-Methyl-2-pentanone	9.655	43	432087	224.16 ug/L	94
61) trans-1,3-Dichloropropene	9.720	75	171749	41.77 ug/L	87
62) Tetrachloroethene	9.743	166	108379	36.30 ug/L	93
63) Ethyl methacrylate	9.826	69	126292	41.46 ug/L	94
64) 1,1,2-Trichloroethane	9.890	83	85394	43.40 ug/L	89
65) Dibromochloromethane	10.084	129	115545	39.64 ug/L	94
66) 1,3-Dichloropropane	10.166	76	179216	42.61 ug/L	99
67) 1,2-Dibromoethane	10.349	107	104140	43.89 ug/L	97
68) 2-hexanone	10.472	43	313411	239.19 ug/L	96
69) 1-Chlorohexane	10.783	91	166320	42.90 ug/L	97
70) Ethylbenzene	10.848	91	610999	42.10 ug/L	99
71) Chlorobenzene	10.848	112	327655	43.00 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.901	131	112186	41.92 ug/L	93
73) m,p-Xylene	10.983	91	942124	83.97 ug/L	98
74) o-Xylene	11.424	91	493246	42.33 ug/L	97
75) Styrene	11.471	104	354107	40.42 ug/L	96
76) Bromoform	11.535	173	64960	38.33 ug/L	96
77) Isopropylbenzene	11.729	105	562863	41.31 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.076	53	44213	42.34 ug/L	95
81) n-Propylbenzene	12.146	91	702821	41.97 ug/L	98
82) Bromobenzene	12.170	156	136206	41.31 ug/L	95
83) 1,1,2,2-Tetrachloroethane	12.205	83	132513	46.23 ug/L	97
84) 1,3,5-Trimethylbenzene	12.329	105	504221	40.52 ug/L	96
85) 2-Chlorotoluene	12.340	91	493698	42.09 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.387	53	43938	45.49 ug/L #	70
87) 1,2,3-Trichloropropane	12.370	110	35325	41.92 ug/L	89
88) Cyclohexanone	12.434	55	16106	226.72 ug/L #	73
89) 4-Chlorotoluene	12.505	91	459985	42.22 ug/L	98
90) a-Methyl Styrene	12.593	118	250353	42.10 ug/L	99

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977492.D
Acq On : 24 Jun 2016 8:51 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5347,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 09:38:06 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	309640	42.75	ug/L		97
92)	1,2,4-Trimethylbenzene	12.740	105	520318	41.39	ug/L		99
93)	Pentachloroethane	12.722	167	83070	43.83	ug/L		96
94)	sec-Butylbenzene	12.852	105	612086	41.12	ug/L		94
95)	4-Isopropyltoluene	12.987	119	525660	41.70	ug/L		99
96)	1,3-Dichlorobenzene	13.122	146	248283	41.61	ug/L		94
97)	1,4-Dichlorobenzene	13.204	146	249610	41.20	ug/L		97
98)	n-Butylbenzene	13.421	92	309049	42.91	ug/L		96
99)	Benzyl Chloride	13.433	126	46353	44.25	ug/L	#	94
100)	1,2-Dichlorobenzene	13.633	146	230815	40.80	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.367	75	21163	42.54	ug/L		86
102)	Hexachlorobutadiene	14.914	225	90754	37.17	ug/L		94
103)	1,2,4-Trichlorobenzene	14.961	180	170499	37.66	ug/L		99
104)	Naphthalene	15.243	128	297764	43.64	ug/L		97
105)	1,2,3-Trichlorobenzene	15.413	180	144330	41.97	ug/L		92
107)	Ethanol	4.261	45	19737m	830.94	ug/L		
108)	acrolein	4.749	56	87232	179.52	ug/L	#	77
109)	Tert Butyl Alcohol	5.366	59	106549	410.56	ug/L		86
110)	tert Amyl alcohol	7.552	59	77373	381.12	ug/L		86
111)	Isobutyl alcohol	7.428	42	69262	885.07	ug/L		93
112)	1,4-Dioxane	8.650	88	19396	839.04	ug/L		90
113)	3,3-Dimethyl-1-butanol	10.419	57	369578	1970.72	ug/L		97

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

7.6.11

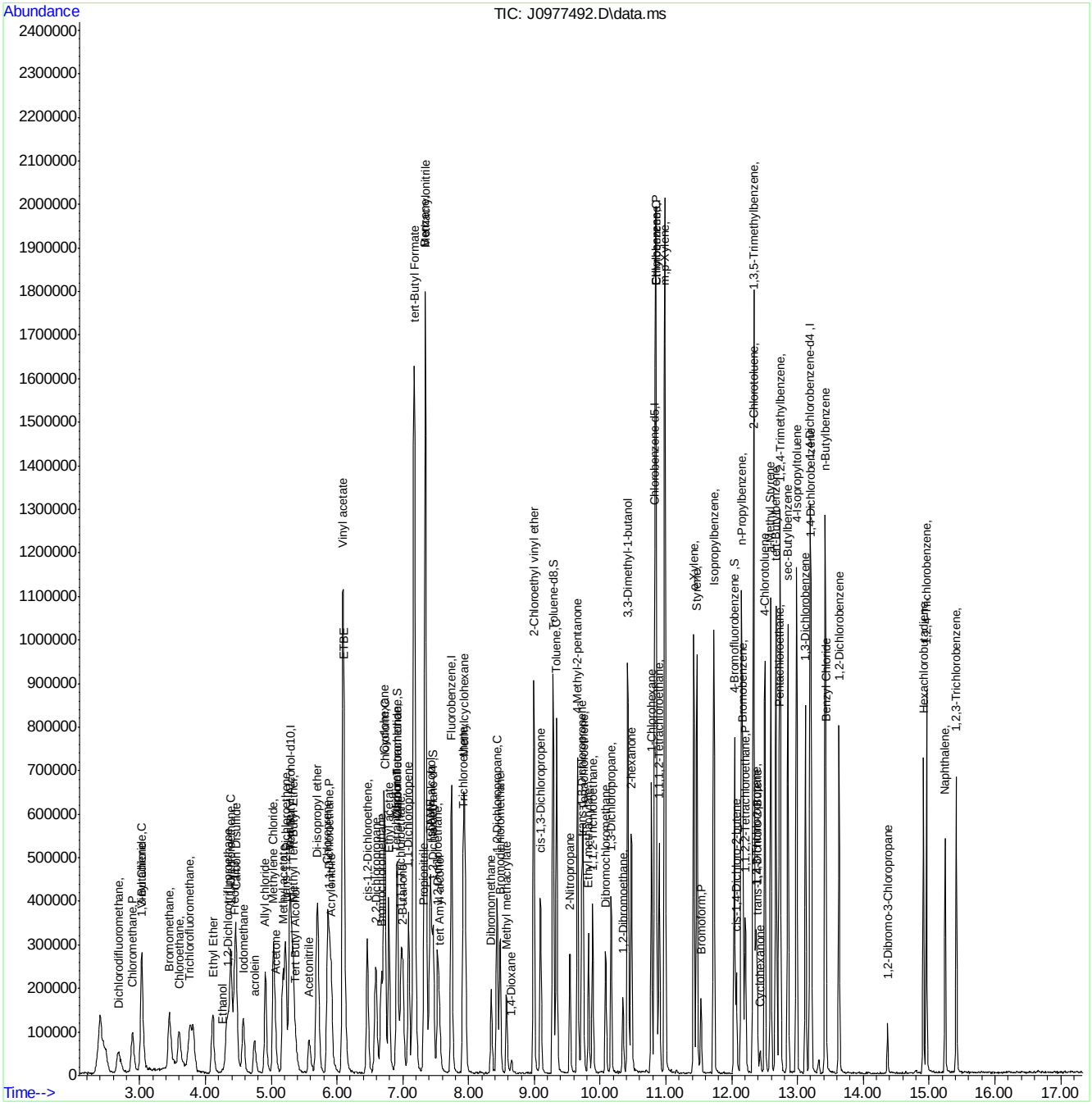
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977492.D
Acq On : 24 Jun 2016 8:51 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5347,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 09:38:06 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



Manual Integration Approval Summary

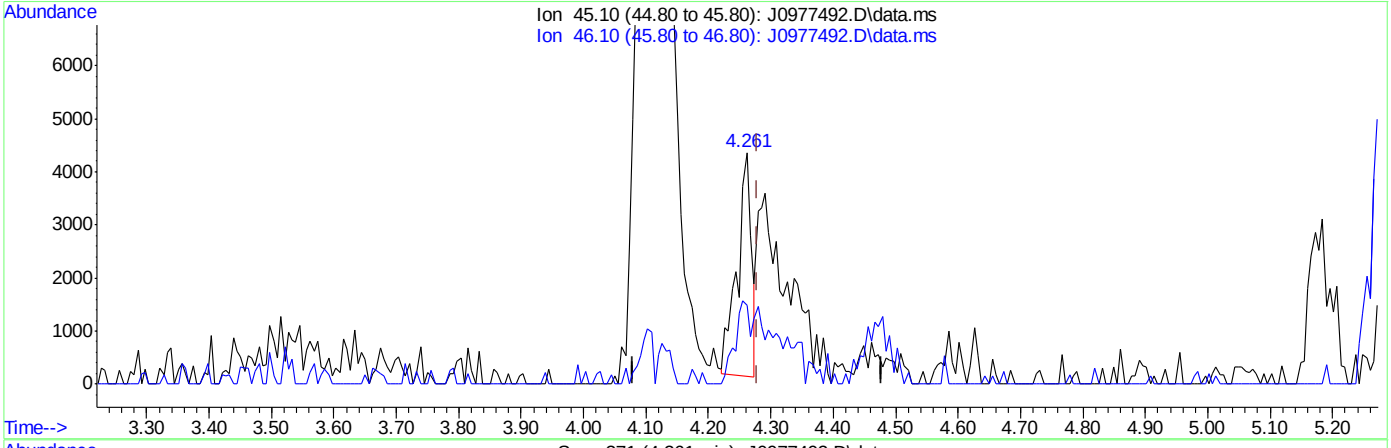
Sample Number:	VJ5347-CC5340	**Method:**	SW846 8260B
Lab FileID:	J0977492.D	**Analyst approved:**	06/25/16 11:25 Darshna Patel
Injection Time:	06/24/16 08:51	**Supervisor approved:**	06/27/16 10:45 Juan Garcia

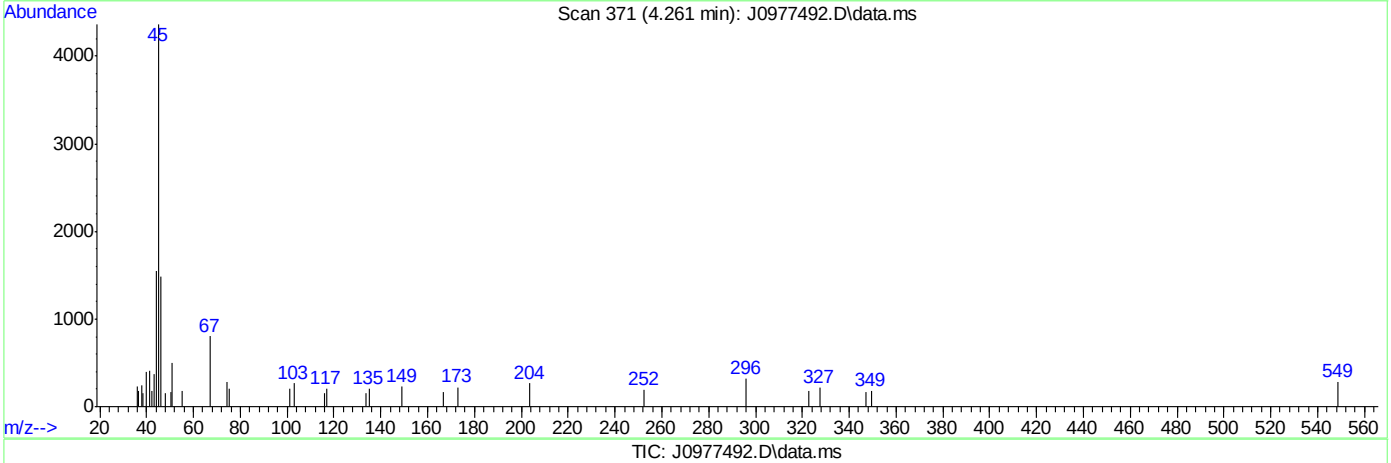
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977492.D
Acq On : 24 Jun 2016 8:51 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5347,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 09:37:16 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977492.D\data.ms

(107) Ethanol

4.261min (-0.017) 280.56ug/L

response 6664

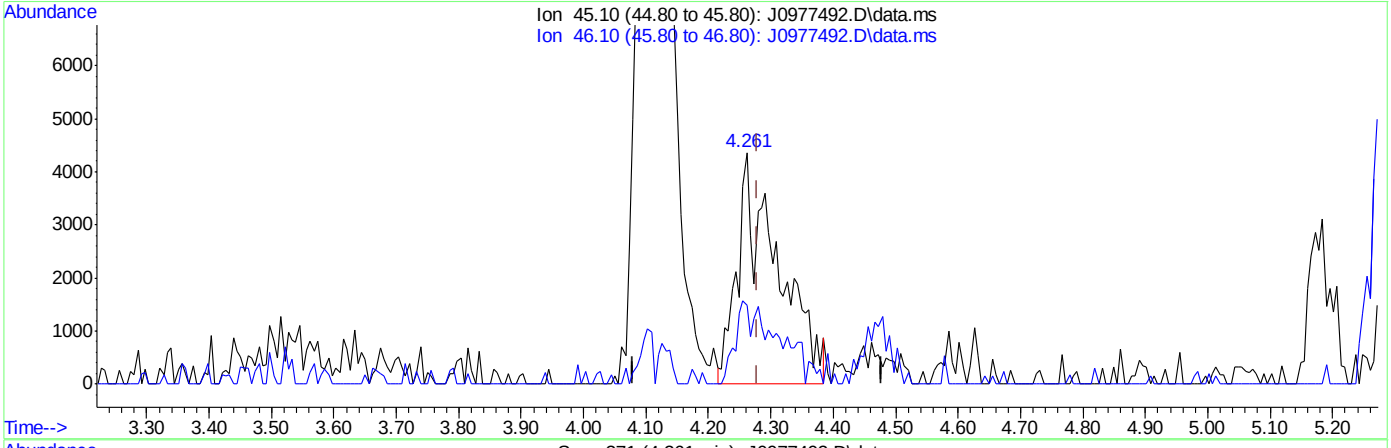
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	36.60
0.00	0.00	0.00
0.00	0.00	0.00

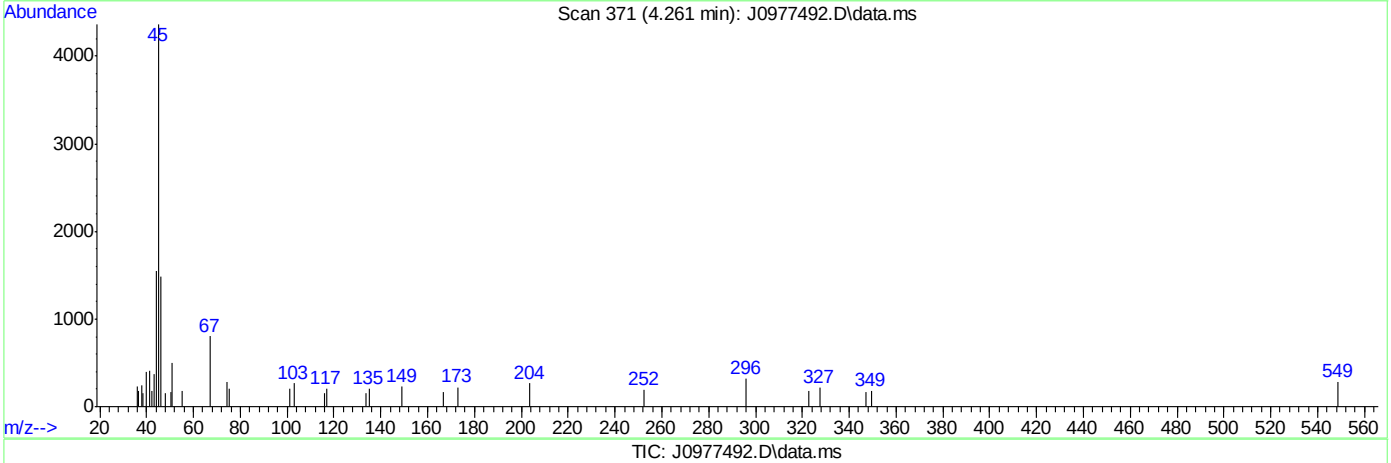
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977492.D
Acq On : 24 Jun 2016 8:51 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34215,vj5347,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 24 09:37:16 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977492.D\data.ms

(107) Ethanol

4.261min (-0.017) 830.94ug/L m

response 19737

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	34.14
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/27/16 10:45

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977519.D
Acq On : 24 Jun 2016 7:44 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34230,vj5347,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 11:04:21 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	470122	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	326562	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	184394	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	40287	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	121147	48.96	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.92%			
46) 1,2-Dichloroethane-d4	7.463	65	189792	52.56	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 105.12%			
57) Toluene-d8	9.285	98	457024	52.95	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 105.90%			
79) 4-Bromofluorobenzene	12.041	95	172324	48.64	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 97.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	102543	30.97	ug/L	77
3) Chloromethane	2.886	50	138178	41.37	ug/L	93
4) Vinyl Chloride	3.033	62	141859	43.22	ug/L	92
5) 1,3-Butadiene	3.022	54	110449	45.57	ug/L	94
6) Bromomethane	3.450	94	122390	45.01	ug/L	99
7) Chloroethane	3.591	64	94407	45.12	ug/L	94
8) Trichlorofluoromethane	3.779	101	248568	44.63	ug/L	99
9) Ethyl Ether	4.103	59	92722	41.48	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.338	67	115812	40.37	ug/L	92
11) 1,1-Dichloroethene	4.391	61	162251	38.74	ug/L	95
12) Freon 113	4.443	101	91206	35.79	ug/L	90
13) Carbon Disulfide	4.461	76	295584	37.56	ug/L	97
14) Iodomethane	4.567	142	138568	34.22	ug/L	96
15) Allyl chloride	4.908	41	152510	42.17	ug/L	95
16) Methylene Chloride	5.037	49	150155	39.77	ug/L	94
17) Acetone	5.060	58	36838	235.57	ug/L #	75
18) Methyl acetate	5.178	74	60412	211.51	ug/L #	82
19) trans-1,2-Dichloroethene	5.219	61	137917	39.28	ug/L	95
20) Hexane	5.290	56	99073	42.17	ug/L #	75
21) Methyl Tert Butyl Ether	5.319	73	273769	36.04	ug/L	96
22) Acetonitrile	5.583	40	48459	415.42	ug/L #	84
23) Di-isopropyl ether	5.701	45	362543	39.79	ug/L	95
24) Chloroprene	5.859	53	195986	40.55	ug/L	91
25) 1,1-Dichloroethane	5.883	63	195413	41.32	ug/L	94
26) Acrylonitrile	5.912	53	160030	235.82	ug/L	99
27) ETBE	6.106	59	362856	38.07	ug/L	98
28) Vinyl acetate	6.094	43	996101	198.69	ug/L	99
29) cis-1,2-Dichloroethene	6.465	96	100258	34.71	ug/L	90
30) 2,2-Dichloropropane	6.588	77	136574	34.16	ug/L	93
31) Bromochloromethane	6.670	128	43576	34.44	ug/L #	62
32) Cyclohexane	6.717	56	176017	39.65	ug/L	97
33) Chloroform	6.723	83	198934	37.42	ug/L	95
34) Ethyl acetate	6.794	43	419213	229.91	ug/L	93

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977519.D
Acq On : 24 Jun 2016 7:44 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34230,vj5347,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 11:04:21 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	25447	48.51 ug/L #	79
37) Carbon Tetrachloride	6.917	117	145464m	37.68 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	175396	36.97 ug/L	96
39) 2-Butanone	7.011	43	168196	234.02 ug/L	100
40) 1,1-Dichloropropene	7.093	75	134270	38.86 ug/L	91
41) tert-Butyl Formate	7.176	59	495187	302.50 ug/L #	83
42) Propionitrile	7.322	54	101141	397.68 ug/L #	59
43) Methacrylonitrile	7.346	41	513751	444.24 ug/L	99
44) Benzene	7.346	78	373060	38.91 ug/L	100
45) TAME	7.422	73	268938	35.22 ug/L	96
47) 1,2-Dichloroethane	7.534	62	164668	38.05 ug/L	94
48) Trichloroethene	7.922	95	101300	38.79 ug/L	88
49) Methylcyclohexane	7.939	83	166338	36.53 ug/L	93
50) Dibromomethane	8.345	93	57080	38.82 ug/L	84
51) 1,2-Dichloropropane	8.439	63	97348	38.24 ug/L	90
52) Bromodichloromethane	8.480	83	138150	35.31 ug/L	88
53) Methyl methacrylate	8.580	41	77188	42.97 ug/L	96
54) 2-Chloroethyl vinyl ether	8.991	63	310197	227.73 ug/L	97
55) cis-1,3-Dichloropropene	9.097	75	146887	34.80 ug/L	87
58) Toluene	9.338	91	389683	38.69 ug/L	98
59) 2-Nitropropane	9.543	41	117262	202.22 ug/L	97
60) 4-Methyl-2-pentanone	9.661	43	418735	258.74 ug/L	98
61) trans-1,3-Dichloropropene	9.720	75	131563	38.11 ug/L	93
62) Tetrachloroethene	9.743	166	131929	52.64 ug/L	99
63) Ethyl methacrylate	9.825	69	98672	38.59 ug/L	97
64) 1,1,2-Trichloroethane	9.884	83	69955	42.30 ug/L	78
65) Dibromochloromethane	10.084	129	87495	35.75 ug/L	92
66) 1,3-Dichloropropane	10.172	76	140073	39.61 ug/L	96
67) 1,2-Dibromoethane	10.348	107	76267	38.21 ug/L	85
68) 2-hexanone	10.472	43	292660	266.04 ug/L	98
69) 1-Chlorohexane	10.777	91	127706	39.23 ug/L	91
70) Ethylbenzene	10.848	91	476808	39.13 ug/L	99
71) Chlorobenzene	10.848	112	252041	39.25 ug/L	92
72) 1,1,1,2-Tetrachloroethane	10.901	131	90451	40.26 ug/L	96
73) m,p-Xylene	10.983	91	721436	76.59 ug/L	99
74) o-Xylene	11.424	91	379990	38.72 ug/L	99
75) Styrene	11.471	104	271277	36.88 ug/L	97
76) Bromoform	11.535	173	50489	35.48 ug/L	90
77) Isopropylbenzene	11.729	105	445070	38.91 ug/L	95
80) cis-1,4-Dichloro-2-butene	12.076	53	34173	37.54 ug/L	89
81) n-Propylbenzene	12.146	91	547450	37.23 ug/L	98
82) Bromobenzene	12.170	156	103943	35.76 ug/L	94
83) 1,1,2,2-Tetrachloroethane	12.205	83	99935	39.75 ug/L	88
84) 1,3,5-Trimethylbenzene	12.328	105	396927	36.33 ug/L	94
85) 2-Chlorotoluene	12.334	91	379639	36.86 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.387	53	30465	35.50 ug/L #	72
87) 1,2,3-Trichloropropane	12.370	110	29339	39.66 ug/L	98
88) Cyclohexanone	12.428	55	15137	242.36 ug/L	91
89) 4-Chlorotoluene	12.505	91	349473	36.17 ug/L	95
90) a-Methyl Styrene	12.593	118	201834	38.65 ug/L	98

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977519.D
Acq On : 24 Jun 2016 7:44 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34230,vj5347,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 11:04:21 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	236242	37.15	ug/L		97
92)	1,2,4-Trimethylbenzene	12.740	105	396531	35.92	ug/L		99
93)	Pentachloroethane	12.722	167	27523	16.54	ug/L		88
94)	sec-Butylbenzene	12.857	105	487757	37.31	ug/L		100
95)	4-Isopropyltoluene	12.987	119	392406	35.45	ug/L		100
96)	1,3-Dichlorobenzene	13.122	146	182054	34.52	ug/L		95
97)	1,4-Dichlorobenzene	13.204	146	199886	37.42	ug/L		97
98)	n-Butylbenzene	13.421	92	234945	37.15	ug/L		96
99)	Benzyl Chloride	13.433	126	27578	29.98	ug/L	#	76
100)	1,2-Dichlorobenzene	13.627	146	185290	37.31	ug/L		91
101)	1,2-Dibromo-3-Chloropr...	14.367	75	18134	41.51	ug/L	#	72
102)	Hexachlorobutadiene	14.914	225	69772	32.54	ug/L		94
103)	1,2,4-Trichlorobenzene	14.961	180	131470	33.07	ug/L		98
104)	Naphthalene	15.243	128	227613	38.63	ug/L		96
105)	1,2,3-Trichlorobenzene	15.413	180	115379	38.44	ug/L		92
107)	Ethanol	4.261	45	17938	853.04	ug/L		78
108)	acrolein	4.743	56	73397m	170.40	ug/L		
109)	Tert Butyl Alcohol	5.372	59	88139	383.43	ug/L		91
110)	tert Amyl alcohol	7.563	59	60793	338.25	ug/L	#	72
111)	Isobutyl alcohol	7.440	42	51895	747.31	ug/L	#	79
112)	1,4-Dioxane	8.656	88	17464	853.59	ug/L		75
113)	3,3-Dimethyl-1-butanol	10.419	57	336838	2025.10	ug/L		96

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

7.6.12

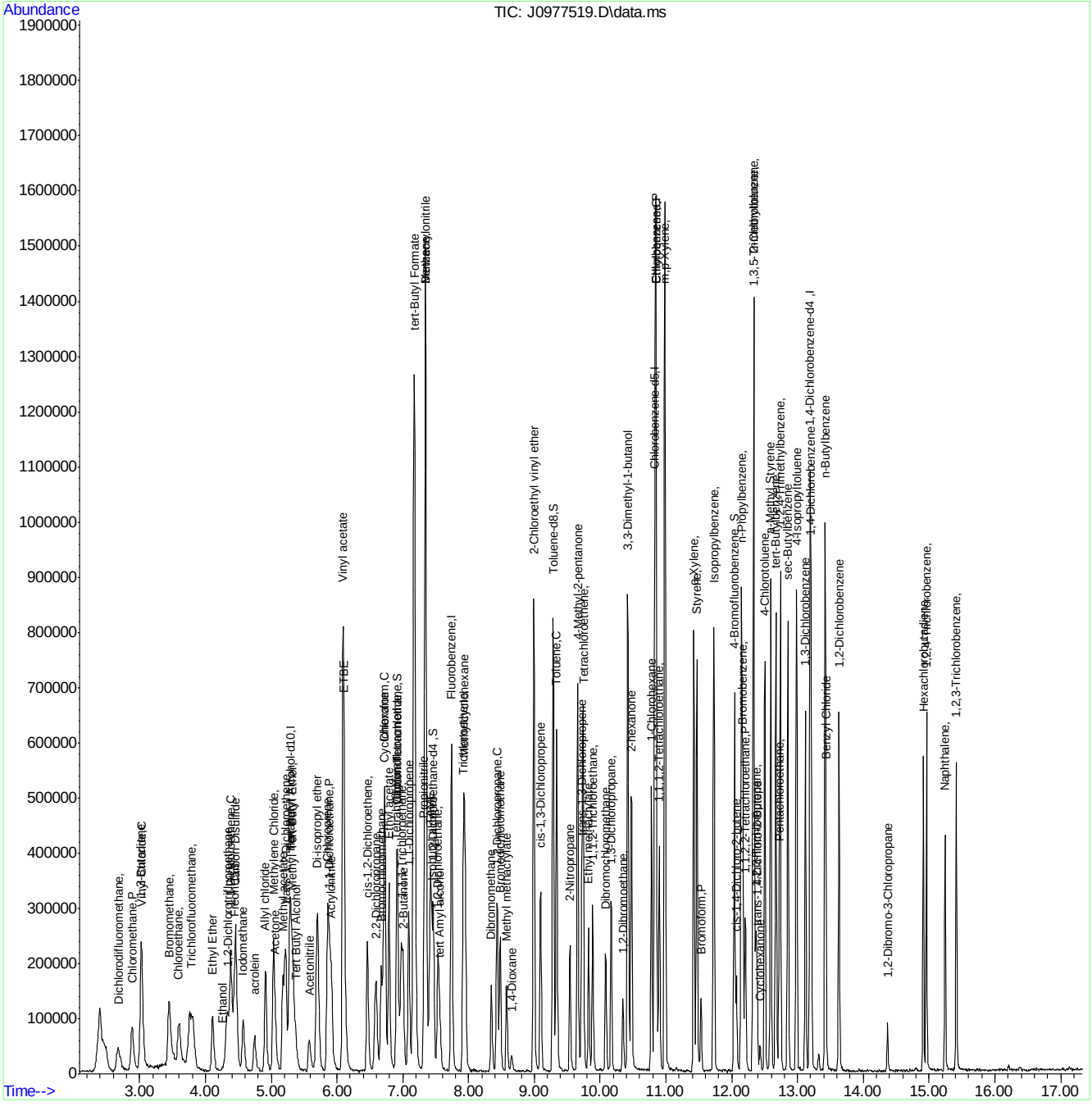
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977519.D
Acq On : 24 Jun 2016 7:44 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34230,vj5347,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 11:04:21 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

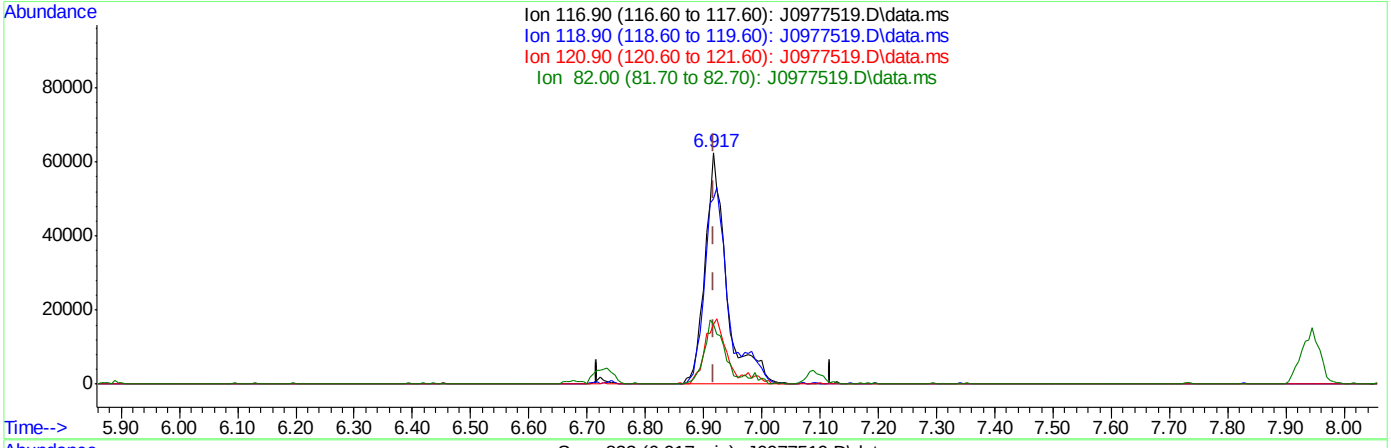
Sample Number:	VJ5347-ECC5340	**Method:**	SW846 8260B
Lab FileID:	J0977519.D	**Analyst approved:**	06/25/16 11:25 Darshna Patel
Injection Time:	06/24/16 19:44	**Supervisor approved:**	06/27/16 10:45 Juan Garcia

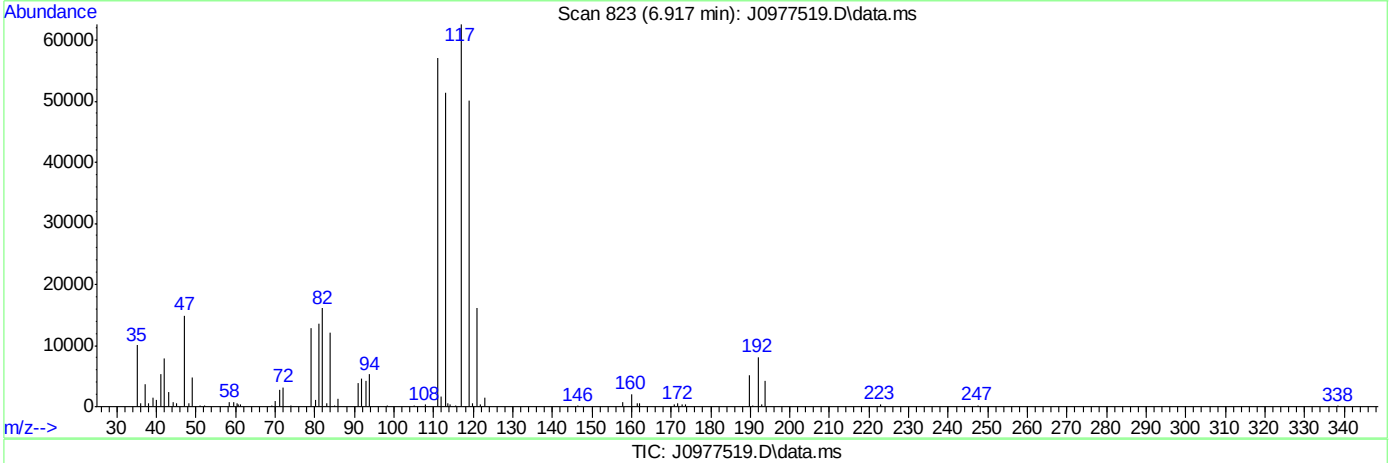
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acrolein	107-02-8		4.74	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977519.D
Acq On : 24 Jun 2016 7:44 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34230,vj5347,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 09:55:54 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.917min (+0.000) 42.30ug/L

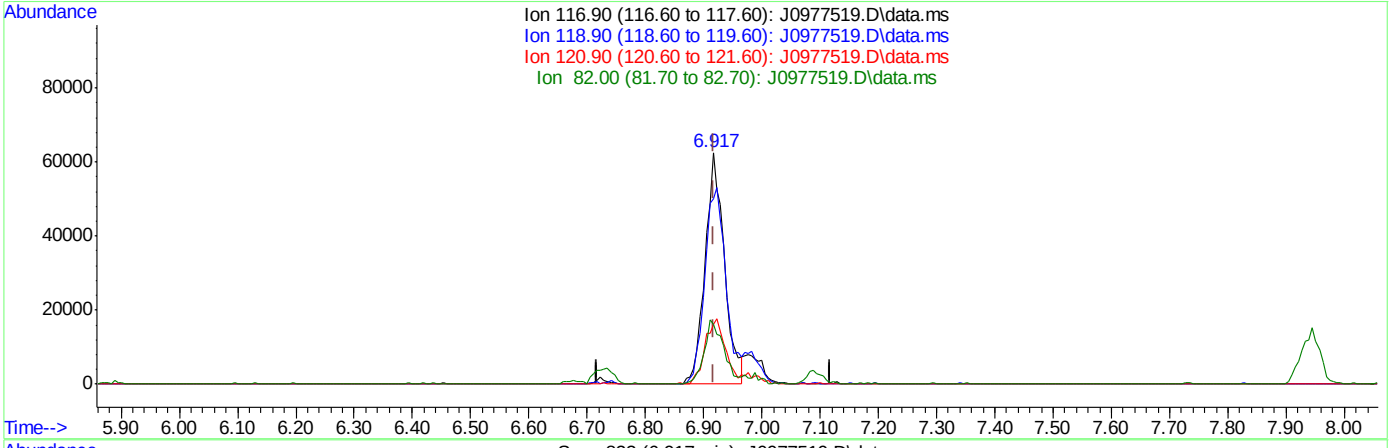
response 163298

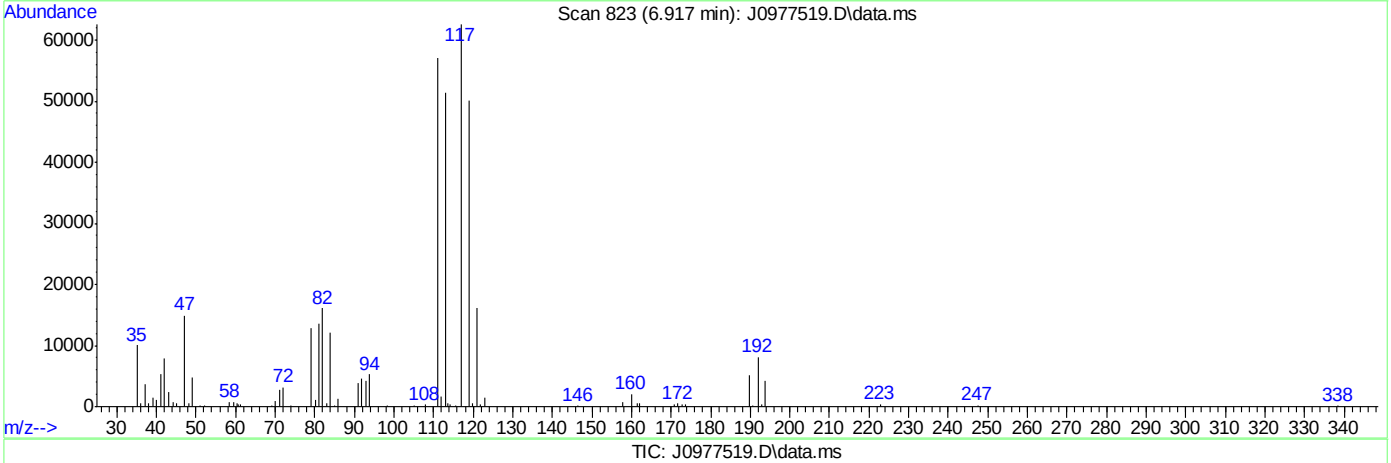
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	80.04
120.90	27.00	25.90
82.00	24.80	25.70

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977519.D
Acq On : 24 Jun 2016 7:44 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34230,vj5347,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 09:55:54 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.917min (+0.000) 37.68ug/L m

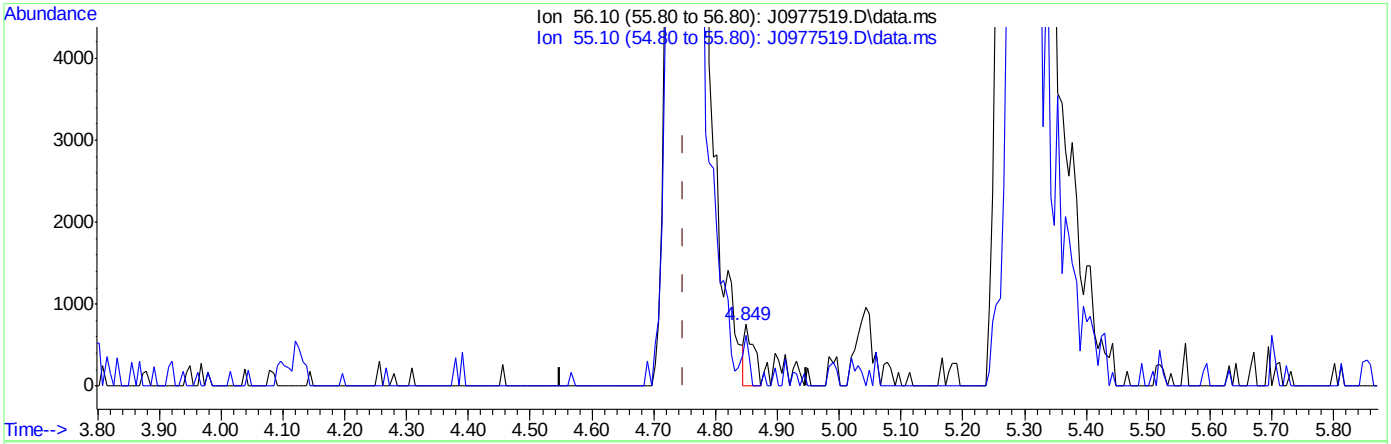
response 145464

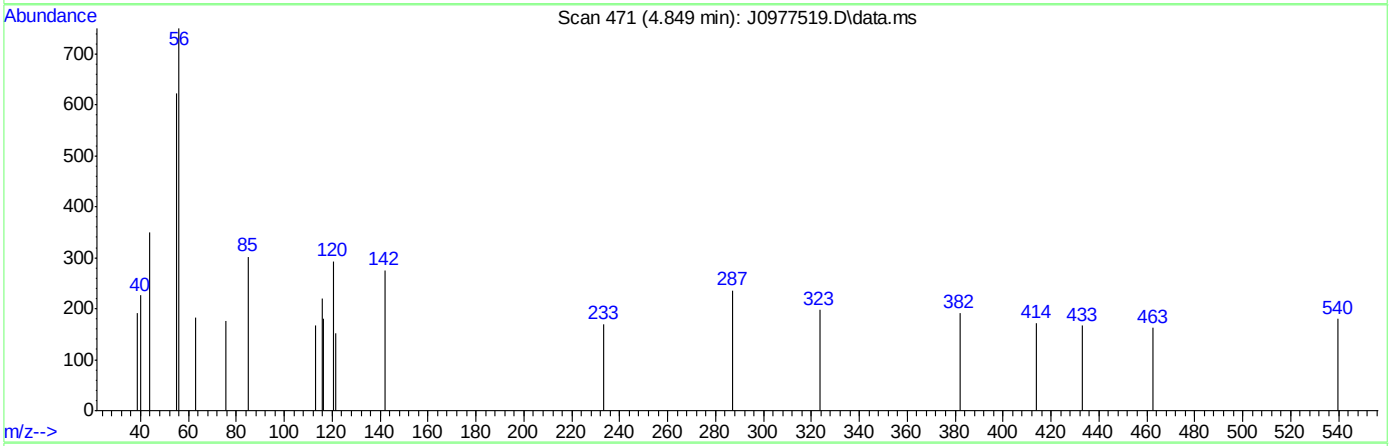
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	80.04
120.90	27.00	25.90
82.00	24.80	25.70

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977519.D
Acq On : 24 Jun 2016 7:44 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34230,vj5347,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 10:20:14 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977519.D\data.ms

(108) acrolein

4.849min (+0.100) 1.74ug/L

response 767

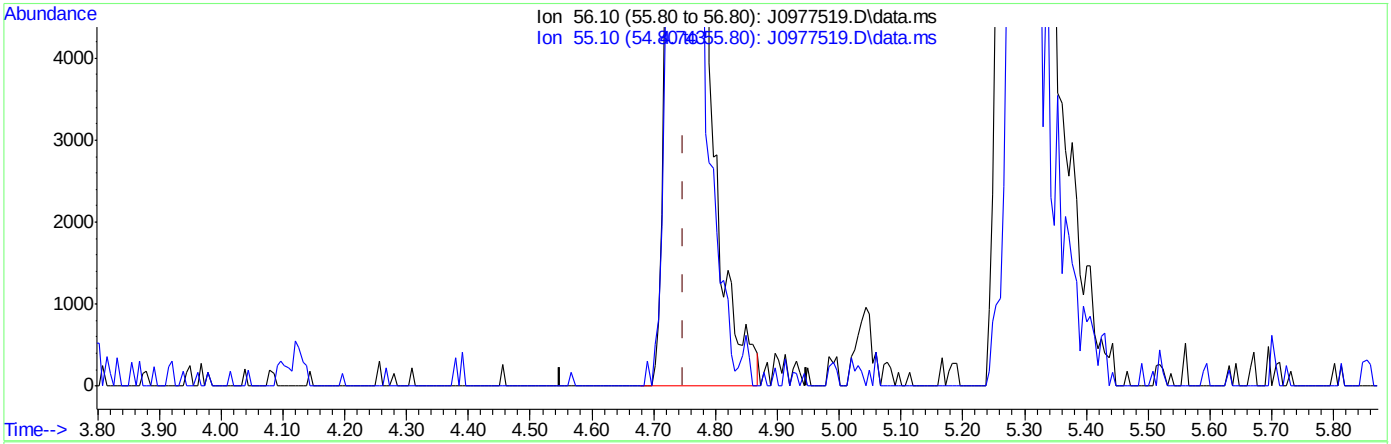
Ion	Exp%	Act%
56.10	100	100
55.10	82.80	82.93
0.00	0.00	0.00
0.00	0.00	0.00

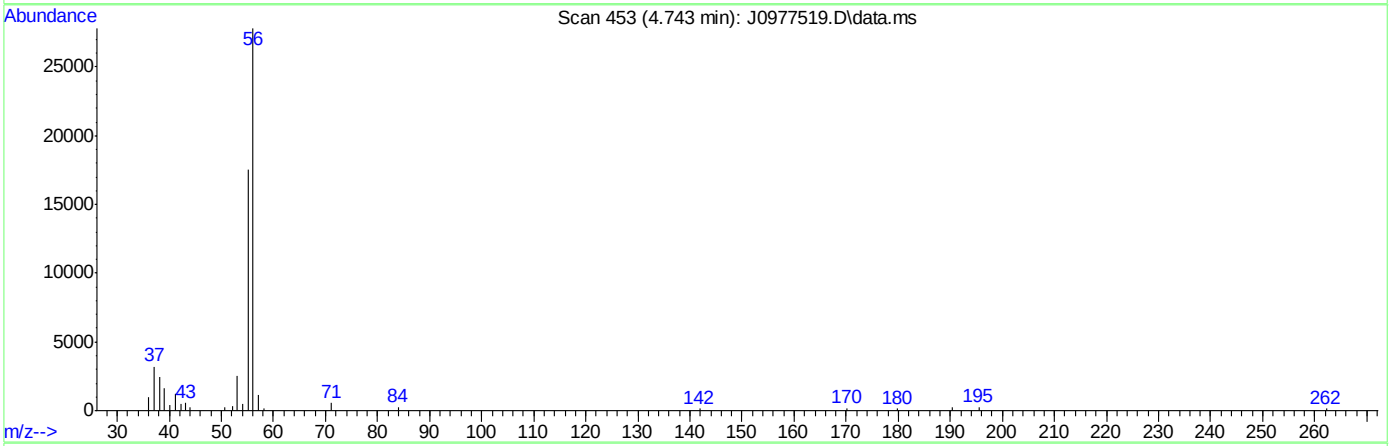
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062416\
Data File : J0977519.D
Acq On : 24 Jun 2016 7:44 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34230,vj5347,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 10:20:14 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977519.D\data.ms

(108) acrolein

4.743min (-0.006) 170.40ug/L m

response 73397

Ion	Exp%	Act%
56.10	100	100
55.10	82.80	63.20
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/28/16 13:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977583.D
Acq On : 27 Jun 2016 9:11 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 12:26:34 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	493753	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	348474	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	180010	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	34401	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	132272	50.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.80%			
46) 1,2-Dichloroethane-d4	7.458	65	174038	45.89	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 91.78%			
57) Toluene-d8	9.285	98	479339	52.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.08%			
79) 4-Bromofluorobenzene	12.041	95	176850	51.14	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	117499	33.94	ug/L	91
3) Chloromethane	2.887	50	135811	38.59	ug/L	91
4) Vinyl Chloride	3.028	62	147841	42.87	ug/L	99
5) 1,3-Butadiene	3.022	54	113775	44.60	ug/L #	79
6) Bromomethane	3.445	94	137879	48.68	ug/L	96
7) Chloroethane	3.598	64	96425	43.61	ug/L	94
8) Trichlorofluoromethane	3.803	101	270423	46.33	ug/L	90
9) Ethyl Ether	4.109	59	100001	42.59	ug/L	90
10) 1,2-Dichlorotrifluoroe...	4.338	67	138066	45.82	ug/L	86
11) 1,1-Dichloroethene	4.373	61	171588	39.03	ug/L	92
12) Freon 113	4.438	101	113266	42.71	ug/L #	84
13) Carbon Disulfide	4.455	76	355516	43.01	ug/L	96
14) Iodomethane	4.561	142	172539	40.57	ug/L	95
15) Allyl chloride	4.908	41	134036	35.29	ug/L	88
16) Methylene Chloride	5.025	49	158220	39.90	ug/L	97
17) Acetone	5.049	58	32520	198.00	ug/L #	58
18) Methyl acetate	5.172	74	62708	209.04	ug/L	93
19) trans-1,2-Dichloroethene	5.207	61	147364	39.96	ug/L	91
20) Hexane	5.272	56	102027	41.35	ug/L #	93
21) Methyl Tert Butyl Ether	5.313	73	293671	36.81	ug/L	97
22) Acetonitrile	5.578	40	44455	362.20	ug/L	88
23) Di-isopropyl ether	5.701	45	368712	38.53	ug/L	89
24) Chloroprene	5.854	53	174867	34.20	ug/L	96
25) 1,1-Dichloroethane	5.877	63	203792	41.03	ug/L	97
26) Acrylonitrile	5.907	53	141287	197.58	ug/L	97
27) ETBE	6.101	59	395621	39.52	ug/L	98
28) Vinyl acetate	6.089	43	999513	189.83	ug/L	100
29) cis-1,2-Dichloroethene	6.459	96	120152	39.61	ug/L	89
30) 2,2-Dichloropropane	6.588	77	164387	39.15	ug/L	95
31) Bromochloromethane	6.665	128	52320	39.37	ug/L	95
32) Cyclohexane	6.712	56	190745	40.91	ug/L	91
33) Chloroform	6.717	83	214635	38.48	ug/L	99
34) Ethyl acetate	6.788	43	337738	176.36	ug/L	99

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977583.D
Acq On : 27 Jun 2016 9:11 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 12:26:34 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.888	42	22480	40.80 ug/L #	74
37) Carbon Tetrachloride	6.917	117	151958m	37.48 ug/L	
38) 1,1,1-Trichloroethane	6.976	97	192896	38.71 ug/L	95
39) 2-Butanone	7.005	43	137332	181.93 ug/L	88
40) 1,1-Dichloropropene	7.082	75	148842	41.01 ug/L	92
41) tert-Butyl Formate	7.170	59	648468	375.11 ug/L	96
42) Propionitrile	7.317	54	101148	378.68 ug/L	76
43) Methacrylonitrile	7.340	41	415025	341.69 ug/L	92
44) Benzene	7.340	78	425972	42.36 ug/L	93
45) TAME	7.417	73	310150	38.68 ug/L	92
47) 1,2-Dichloroethane	7.528	62	175578	38.65 ug/L	97
48) Trichloroethene	7.916	95	106081	38.67 ug/L	91
49) Methylcyclohexane	7.934	83	194704	40.71 ug/L	91
50) Dibromomethane	8.345	93	65013	42.01 ug/L	89
51) 1,2-Dichloropropane	8.433	63	107797	40.32 ug/L	94
52) Bromodichloromethane	8.474	83	148765	36.20 ug/L	94
53) Methyl methacrylate	8.574	41	56563	29.94 ug/L	89
54) 2-Chloroethyl vinyl ether	8.991	63	285755	199.74 ug/L	90
55) cis-1,3-Dichloropropene	9.091	75	171494	38.68 ug/L	88
58) Toluene	9.338	91	435203	40.57 ug/L	96
59) 2-Nitropropane	9.538	41	94490	152.70 ug/L #	83
60) 4-Methyl-2-pentanone	9.655	43	324870	188.12 ug/L	96
61) trans-1,3-Dichloropropene	9.720	75	142459	38.68 ug/L	94
62) Tetrachloroethene	9.743	166	100081	37.42 ug/L	90
63) Ethyl methacrylate	9.820	69	100205	36.72 ug/L	88
64) 1,1,2-Trichloroethane	9.884	83	74260	42.07 ug/L	94
65) Dibromochloromethane	10.084	129	95357	36.51 ug/L	96
66) 1,3-Dichloropropane	10.166	76	155004	41.11 ug/L	89
67) 1,2-Dibromoethane	10.343	107	86842	40.81 ug/L	97
68) 2-hexanone	10.472	43	229128	195.19 ug/L	96
69) 1-Chlorohexane	10.783	91	149368	43.00 ug/L	80
70) Ethylbenzene	10.848	91	537617	41.35 ug/L	98
71) Chlorobenzene	10.848	112	287856	42.13 ug/L	92
72) 1,1,1,2-Tetrachloroethane	10.895	131	99860	41.65 ug/L	95
73) m,p-Xylene	10.983	91	814565	81.04 ug/L	97
74) o-Xylene	11.424	91	416245	39.78 ug/L	97
75) Styrene	11.471	104	313296	39.91 ug/L	99
76) Bromoform	11.530	173	51139	33.68 ug/L	94
77) Isopropylbenzene	11.729	105	509989	41.78 ug/L	96
80) cis-1,4-Dichloro-2-butene	12.070	53	33117	37.28 ug/L	90
81) n-Propylbenzene	12.146	91	620481	43.22 ug/L	98
82) Bromobenzene	12.164	156	109383	38.63 ug/L	91
83) 1,1,2,2-Tetrachloroethane	12.205	83	115468	46.99 ug/L	98
84) 1,3,5-Trimethylbenzene	12.329	105	458501	42.99 ug/L	98
85) 2-Chlorotoluene	12.334	91	435243	43.28 ug/L	96
86) trans-1,4-Dichloro-2-B...	12.387	53	30093	35.94 ug/L	91
87) 1,2,3-Trichloropropane	12.370	110	31038	42.97 ug/L	93
88) Cyclohexanone	12.434	55	13184	216.68 ug/L	92
89) 4-Chlorotoluene	12.505	91	389837	41.71 ug/L	92
90) a-Methyl Styrene	12.593	118	217713	42.71 ug/L	98

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977583.D
Acq On : 27 Jun 2016 9:11 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 12:26:34 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	260875	42.02	ug/L		95
92)	1,2,4-Trimethylbenzene	12.740	105	464536	43.11	ug/L		95
93)	Pentachloroethane	12.722	167	65559	40.35	ug/L		98
94)	sec-Butylbenzene	12.852	105	577456	45.25	ug/L		100
95)	4-Isopropyltoluene	12.987	119	471313	43.61	ug/L		99
96)	1,3-Dichlorobenzene	13.122	146	225126	44.12	ug/L		96
97)	1,4-Dichlorobenzene	13.204	146	236653	45.81	ug/L		98
98)	n-Butylbenzene	13.416	92	287634	46.59	ug/L		90
99)	Benzyl Chloride	13.433	126	41543	46.27	ug/L		94
100)	1,2-Dichlorobenzene	13.633	146	206361	42.54	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.367	75	18149	42.56	ug/L	#	75
102)	Hexachlorobutadiene	14.914	225	70470	33.67	ug/L		93
103)	1,2,4-Trichlorobenzene	14.961	180	138036	35.57	ug/L		95
104)	Naphthalene	15.243	128	255187	43.63	ug/L		97
105)	1,2,3-Trichlorobenzene	15.413	180	115198	39.26	ug/L		91
107)	Ethanol	4.261	45	15266m	850.18	ug/L		
108)	acrolein	4.737	56	75301	205.72	ug/L	#	76
109)	Tert Butyl Alcohol	5.360	59	76486	389.71	ug/L		97
110)	tert Amyl alcohol	7.552	59	59249	386.06	ug/L	#	78
111)	Isobutyl alcohol	7.434	42	44718	754.23	ug/L	#	86
112)	1,4-Dioxane	8.656	88	15339	878.45	ug/L		91
113)	3,3-Dimethyl-1-butanol	10.419	57	313317	2193.52	ug/L		91

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

7.6.13

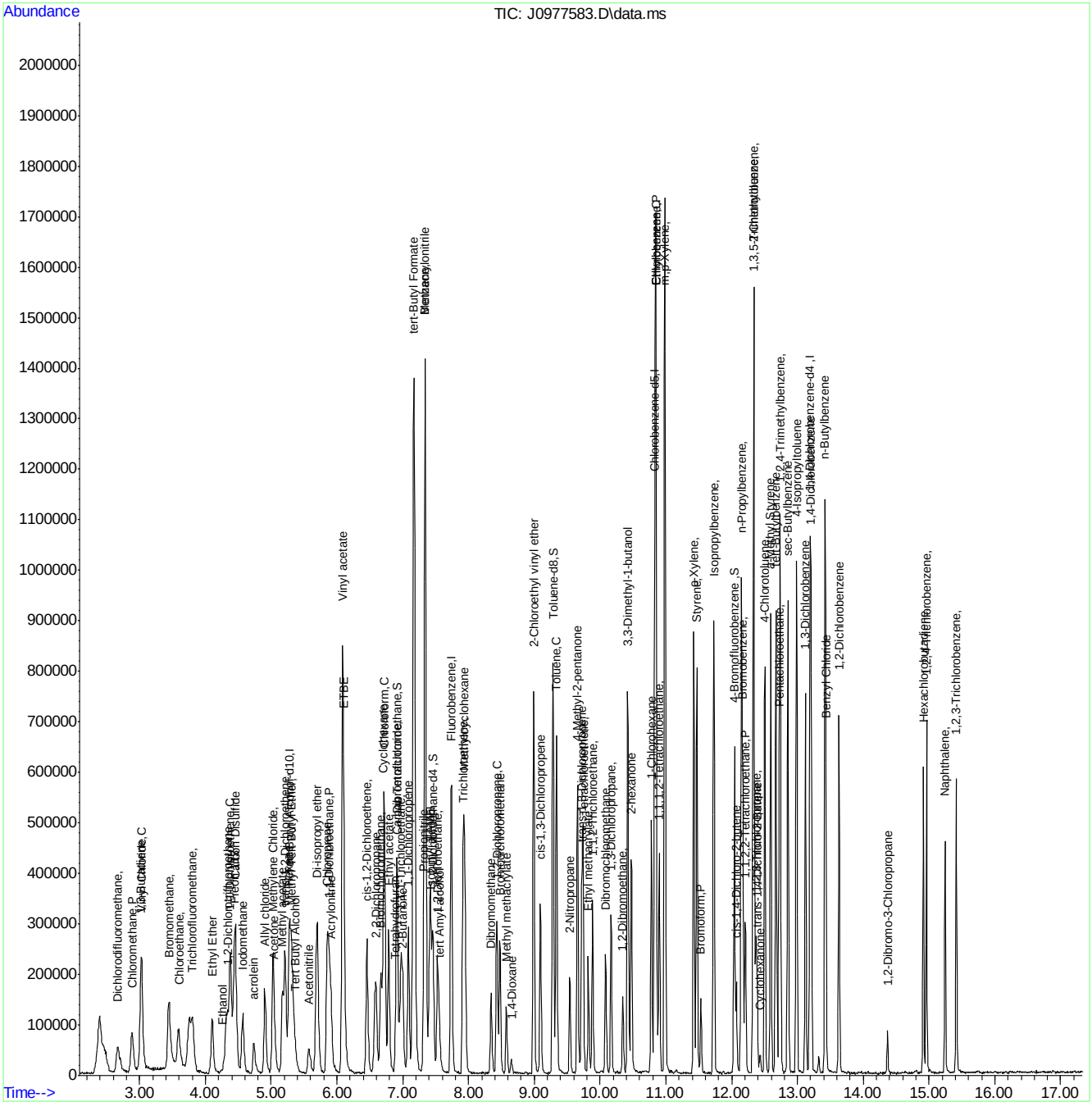
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977583.D
Acq On : 27 Jun 2016 9:11 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 28 12:26:34 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration



MSJ062116a.M Tue Jun 28 12:26:46 2016 Page: 4

SGS ACCUTEST FA34821

Manual Integration Approval Summary

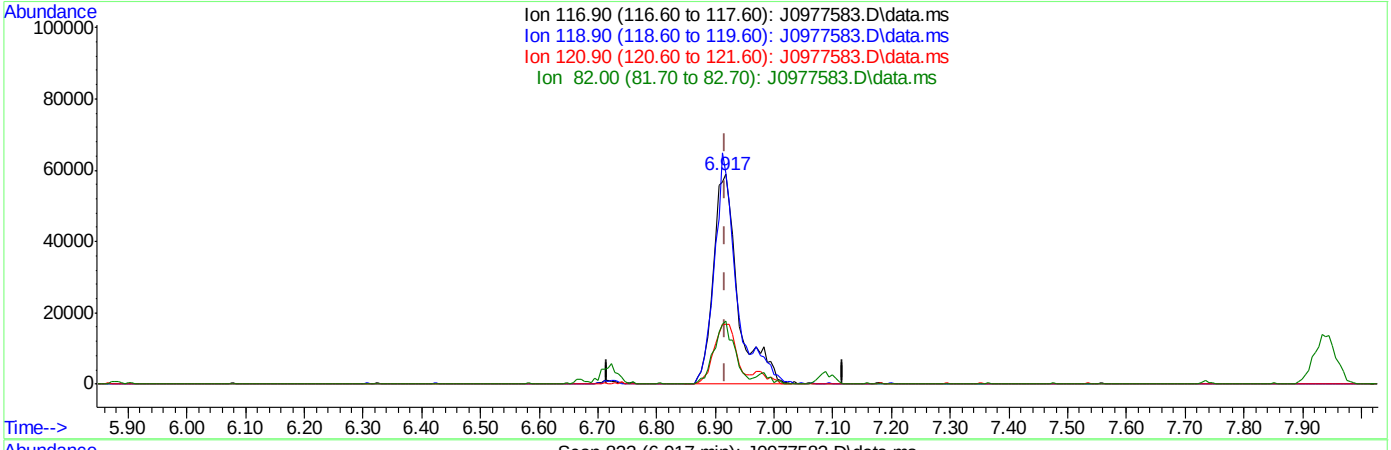
Sample Number:	VJ5351-CC5340	**Method:**	SW846 8260B
Lab FileID:	J0977583.D	**Analyst approved:**	06/28/16 12:38 Darshna Patel
Injection Time:	06/27/16 09:11	**Supervisor approved:**	06/28/16 13:27 Juan Garcia

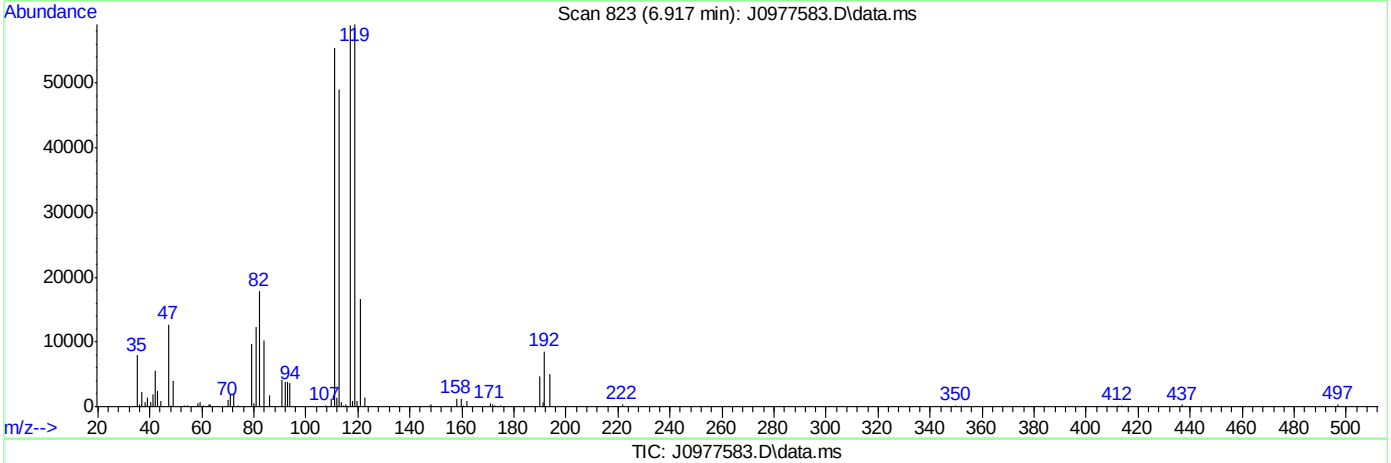
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977583.D
Acq On : 27 Jun 2016 9:11 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 09:30:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977583.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 42.67ug/L

response 172980

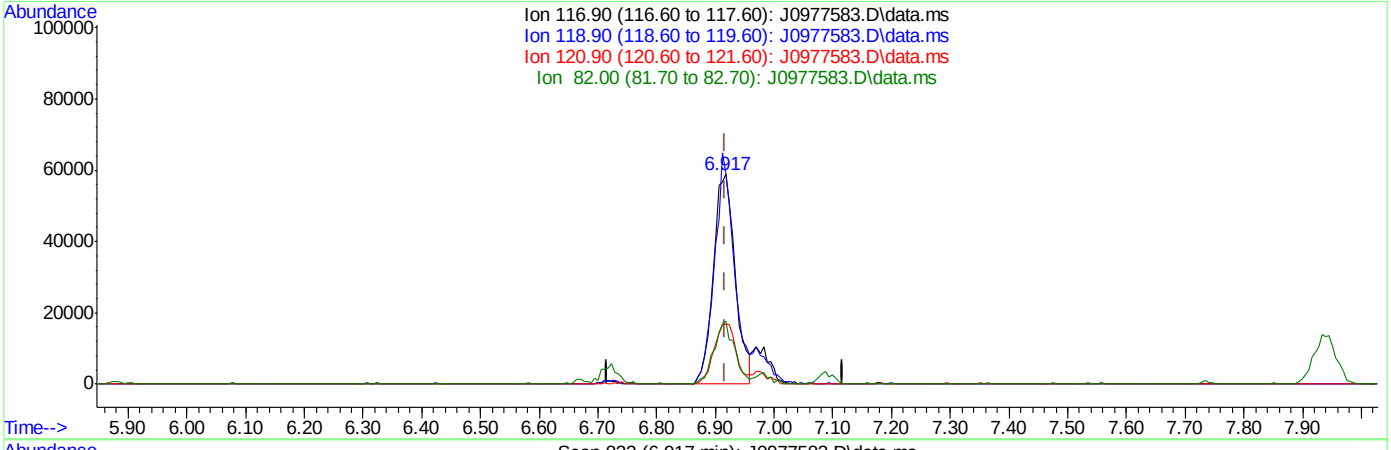
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	100.34
120.90	27.00	28.39
82.00	24.80	30.31

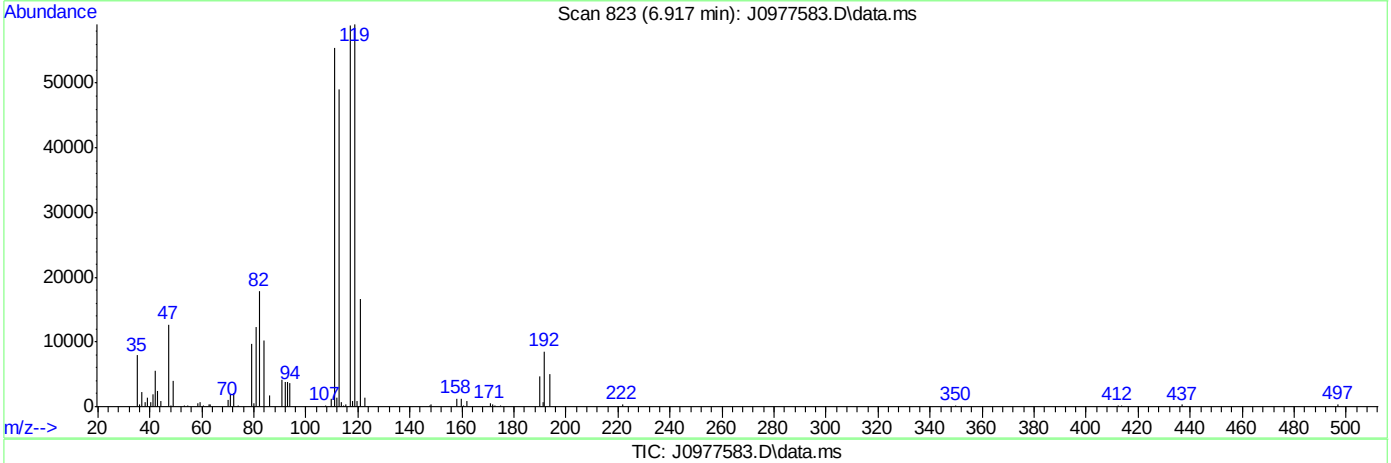
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977583.D
Acq On : 27 Jun 2016 9:11 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 09:30:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977583.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 37.48ug/L m

response 151958

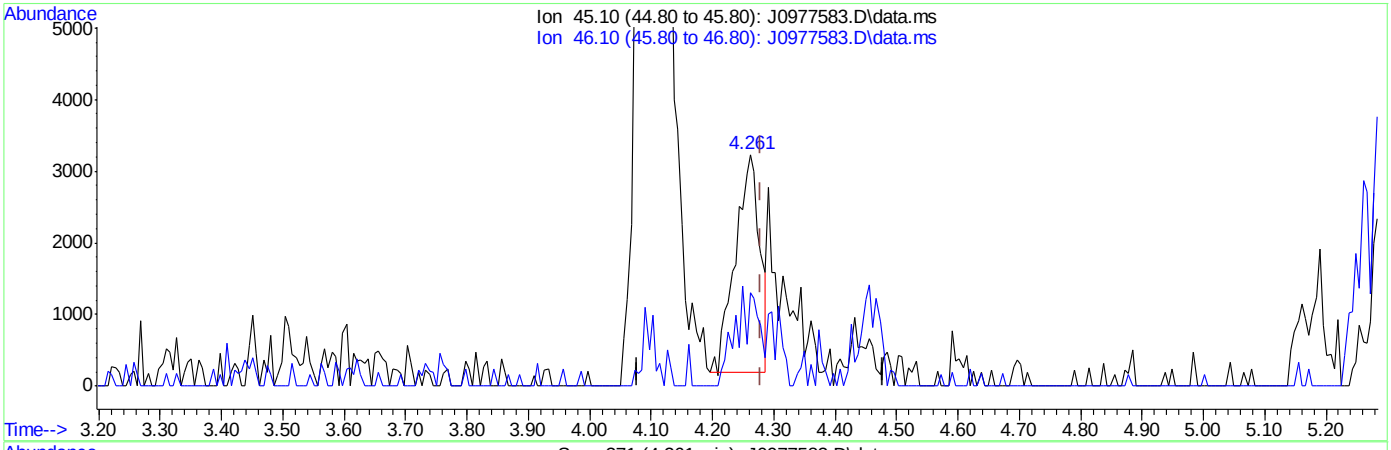
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	100.34
120.90	27.00	28.39
82.00	24.80	30.31

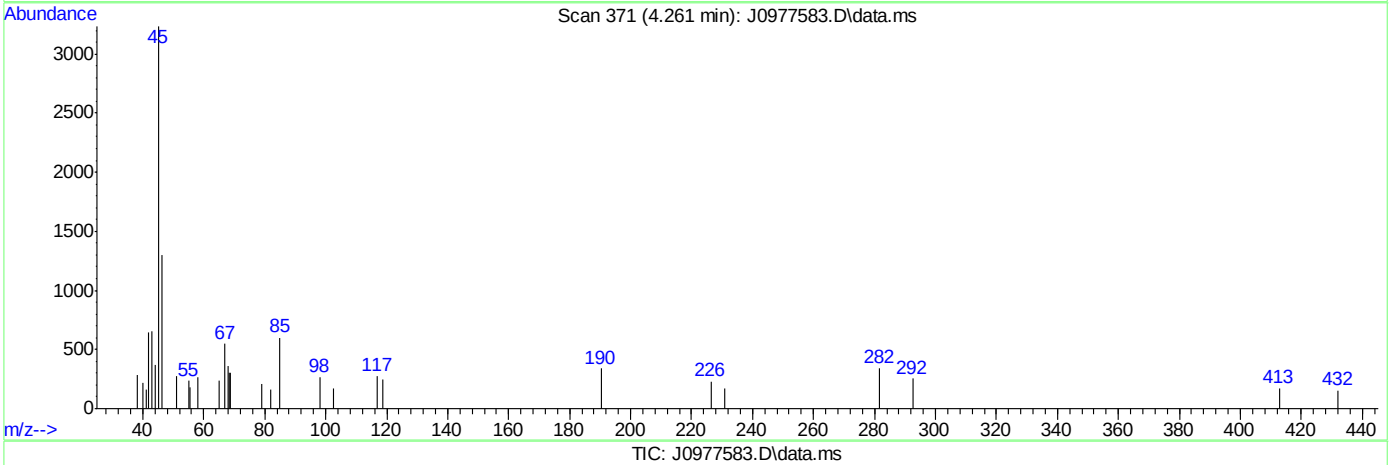
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977583.D
Acq On : 27 Jun 2016 9:11 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 09:30:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977583.D\data.ms

(107) Ethanol

4.261min (-0.017) 465.86ug/L

response 8365

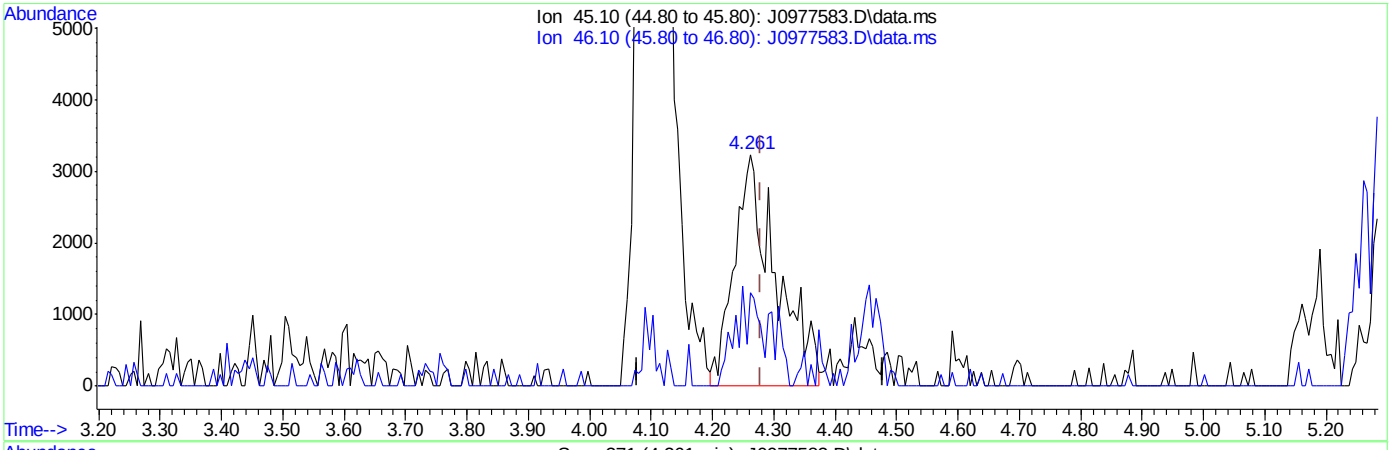
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	42.76
0.00	0.00	0.00
0.00	0.00	0.00

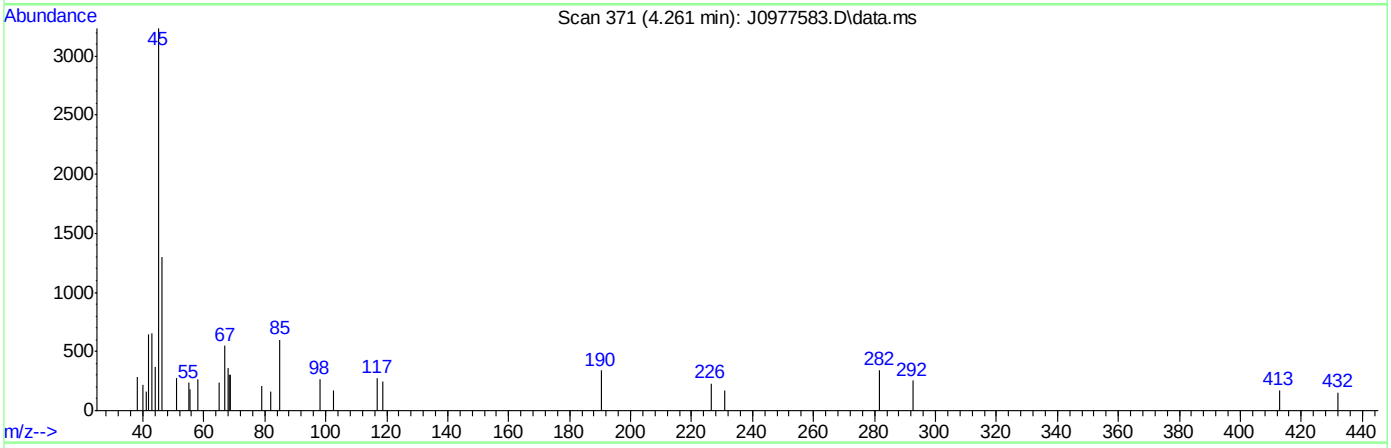
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977583.D
Acq On : 27 Jun 2016 9:11 am
Operator : darshnap
Sample : cc5340-5 Inst : MSVOA6
Misc : MS34242,vj5351,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jun 27 09:30:15 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jun 22 07:48:34 2016
Response via : Initial Calibration





TIC: J0977583.D\data.ms

(107) Ethanol

4.261min (-0.017) 850.18ug/L m

response 15266

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	40.21
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
06/28/16 13:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977609.D
Acq On : 27 Jun 2016 7:21 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34257,vj5351,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 08:19:42 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.746	96	634033	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	440460	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.192	152	208652	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.307	65	41224	250.00	ug/L	0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	152868	45.81	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 91.62%			
46) 1,2-Dichloroethane-d4	7.464	65	204911	42.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 84.16%			
57) Toluene-d8	9.285	98	590382	50.71	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.42%			
79) 4-Bromofluorobenzene	12.041	95	211168	52.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.36%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.687	85	145850	32.75	ug/L	92
3) Chloromethane	2.887	50	175956	38.95	ug/L	90
4) Vinyl Chloride	3.033	62	178991	40.25	ug/L	100
5) 1,3-Butadiene	3.033	54	182752	57.40	ug/L	86
6) Bromomethane	3.456	94	145588	39.20	ug/L	97
7) Chloroethane	3.609	64	108477	37.23	ug/L	88
8) Trichlorofluoromethane	3.774	101	260593	34.24	ug/L	97
9) Ethyl Ether	4.109	59	115159	38.20	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.344	67	156261	40.39	ug/L	92
11) 1,1-Dichloroethene	4.391	61	188721	33.14	ug/L	88
12) Freon 113	4.449	101	126263	36.79	ug/L	94
13) Carbon Disulfide	4.467	76	388149	36.57	ug/L	93
14) Iodomethane	4.579	142	191494	35.07	ug/L	91
15) Allyl chloride	4.914	41	144062	29.54	ug/L	92
16) Methylene Chloride	5.037	49	179706	35.30	ug/L	93
17) Acetone	5.055	58	41263	195.65	ug/L #	70
18) Methyl acetate	5.184	74	79552	206.52	ug/L #	68
19) trans-1,2-Dichloroethene	5.225	61	173609	36.66	ug/L	92
20) Hexane	5.284	56	132733	41.89	ug/L	89
21) Methyl Tert Butyl Ether	5.325	73	340046	33.20	ug/L	89
22) Acetonitrile	5.583	40	56549	358.75	ug/L	85
23) Di-isopropyl ether	5.707	45	428473	34.87	ug/L	92
24) Chloroprene	5.860	53	210364	31.96	ug/L	92
25) 1,1-Dichloroethane	5.889	63	242150	37.97	ug/L	88
26) Acrylonitrile	5.912	53	190272	207.39	ug/L	98
27) ETBE	6.106	59	438163	34.09	ug/L	97
28) Vinyl acetate	6.095	43	1085558	160.55	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	141249	36.26	ug/L	90
30) 2,2-Dichloropropane	6.588	77	163908	30.40	ug/L	96
31) Bromochloromethane	6.670	128	62202	36.45	ug/L	92
32) Cyclohexane	6.723	56	236208	39.45	ug/L	97
33) Chloroform	6.723	83	256105	35.67	ug/L	98
34) Ethyl acetate	6.794	43	426207	173.32	ug/L	96

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977609.D
Acq On : 27 Jun 2016 7:21 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34257,vj5351,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 08:19:42 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.905	42	26234	37.08	ug/L		82
37)	Carbon Tetrachloride	6.923	117	174839m	33.58	ug/L		
38)	1,1,1-Trichloroethane	6.988	97	211956	33.13	ug/L		88
39)	2-Butanone	7.011	43	171668	177.10	ug/L		83
40)	1,1-Dichloropropene	7.093	75	178031	38.20	ug/L		91
41)	tert-Butyl Formate	7.176	59	529473	240.96	ug/L	#	81
42)	Propionitrile	7.317	54	135858	396.09	ug/L		94
43)	Methacrylonitrile	7.346	41	526229	337.39	ug/L		94
44)	Benzene	7.346	78	531086	41.11	ug/L		89
45)	TAME	7.417	73	359028	34.87	ug/L		84
47)	1,2-Dichloroethane	7.534	62	180072	30.66	ug/L		91
48)	Trichloroethene	7.922	95	139582	39.63	ug/L		92
49)	Methylcyclohexane	7.945	83	244789	39.86	ug/L		87
50)	Dibromomethane	8.345	93	73420	37.07	ug/L		93
51)	1,2-Dichloropropane	8.439	63	143727	41.86	ug/L		84
52)	Bromodichloromethane	8.480	83	170782	32.36	ug/L		97
53)	Methyl methacrylate	8.580	41	74083	30.54	ug/L		81
54)	2-Chloroethyl vinyl ether	8.991	63	385512	209.85	ug/L		91
55)	cis-1,3-Dichloropropene	9.097	75	180911	31.78	ug/L		90
58)	Toluene	9.338	91	541799	39.93	ug/L		97
59)	2-Nitropropane	9.544	41	100183	128.09	ug/L		99
60)	4-Methyl-2-pentanone	9.661	43	430590	197.27	ug/L		95
61)	trans-1,3-Dichloropropene	9.720	75	154407	33.17	ug/L		92
62)	Tetrachloroethene	9.743	166	163576	48.39	ug/L		97
63)	Ethyl methacrylate	9.826	69	135948	39.42	ug/L	#	81
64)	1,1,2-Trichloroethane	9.884	83	92892	41.62	ug/L		83
65)	Dibromochloromethane	10.084	129	106500	32.26	ug/L		92
66)	1,3-Dichloropropane	10.166	76	182646	38.27	ug/L		83
67)	1,2-Dibromoethane	10.349	107	99345	36.89	ug/L		93
68)	2-hexanone	10.472	43	291515	196.47	ug/L		92
69)	1-Chlorohexane	10.783	91	178632	40.68	ug/L		88
70)	Ethylbenzene	10.848	91	627600	38.19	ug/L		96
71)	Chlorobenzene	10.848	112	341617	39.45	ug/L		96
72)	1,1,1,2-Tetrachloroethane	10.901	131	113685	37.52	ug/L		91
73)	m,p-Xylene	10.983	91	954925	75.16	ug/L		98
74)	o-Xylene	11.424	91	489354	36.91	ug/L		100
75)	Styrene	11.471	104	365000	36.79	ug/L		99
76)	Bromoform	11.535	173	53091	27.66	ug/L		95
77)	Isopropylbenzene	11.729	105	589821	38.23	ug/L		92
80)	cis-1,4-Dichloro-2-butene	12.070	53	17459	17.49	ug/L	#	80
81)	n-Propylbenzene	12.146	91	720579	43.31	ug/L		100
82)	Bromobenzene	12.170	156	120156	36.55	ug/L		96
83)	1,1,2,2-Tetrachloroethane	12.205	83	131445	46.15	ug/L		89
84)	1,3,5-Trimethylbenzene	12.329	105	528821	42.77	ug/L		97
85)	2-Chlorotoluene	12.340	91	488027	41.87	ug/L		90
86)	trans-1,4-Dichloro-2-B...	12.387	53	18221	18.40	ug/L		89
87)	1,2,3-Trichloropropane	12.364	110	34137	40.78	ug/L		93
88)	Cyclohexanone	12.440	55	15998	226.65	ug/L		88
89)	4-Chlorotoluene	12.505	91	432501	39.79	ug/L		95
90)	a-Methyl Styrene	12.593	118	268198	45.39	ug/L		96

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977609.D
Acq On : 27 Jun 2016 7:21 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34257,vj5351,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 08:19:42 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	287133	39.90	ug/L		95
92)	1,2,4-Trimethylbenzene	12.740	105	516277	41.33	ug/L		100
93)	Pentachloroethane	12.722	167	46841	24.87	ug/L		84
94)	sec-Butylbenzene	12.852	105	672560	45.47	ug/L		99
95)	4-Isopropyltoluene	12.987	119	548095	43.76	ug/L		97
96)	1,3-Dichlorobenzene	13.122	146	253009	42.72	ug/L		95
97)	1,4-Dichlorobenzene	13.204	146	265270	44.22	ug/L		97
98)	n-Butylbenzene	13.421	92	317387	44.35	ug/L		100
99)	Benzyl Chloride	13.433	126	40125	38.55	ug/L	#	93
100)	1,2-Dichlorobenzene	13.633	146	243398	43.28	ug/L		94
101)	1,2-Dibromo-3-Chloropr...	14.367	75	19312	39.07	ug/L		83
102)	Hexachlorobutadiene	14.914	225	82915	34.17	ug/L		93
103)	1,2,4-Trichlorobenzene	14.961	180	154088	34.26	ug/L		99
104)	Naphthalene	15.243	128	292901	43.26	ug/L		94
105)	1,2,3-Trichlorobenzene	15.413	180	131682	38.75	ug/L		99
107)	Ethanol	4.297	45	20960m	974.09	ug/L		
108)	acrolein	4.749	56	97693	223.26	ug/L	#	72
109)	Tert Butyl Alcohol	5.360	59	93404	397.19	ug/L		94
110)	tert Amyl alcohol	7.564	59	70950	385.79	ug/L		82
111)	Isobutyl alcohol	7.440	42	59696	841.45	ug/L	#	81
112)	1,4-Dioxane	8.650	88	21000	1006.23	ug/L		89
113)	3,3-Dimethyl-1-butanol	10.419	57	385676	2249.02	ug/L		91

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

7.6.14

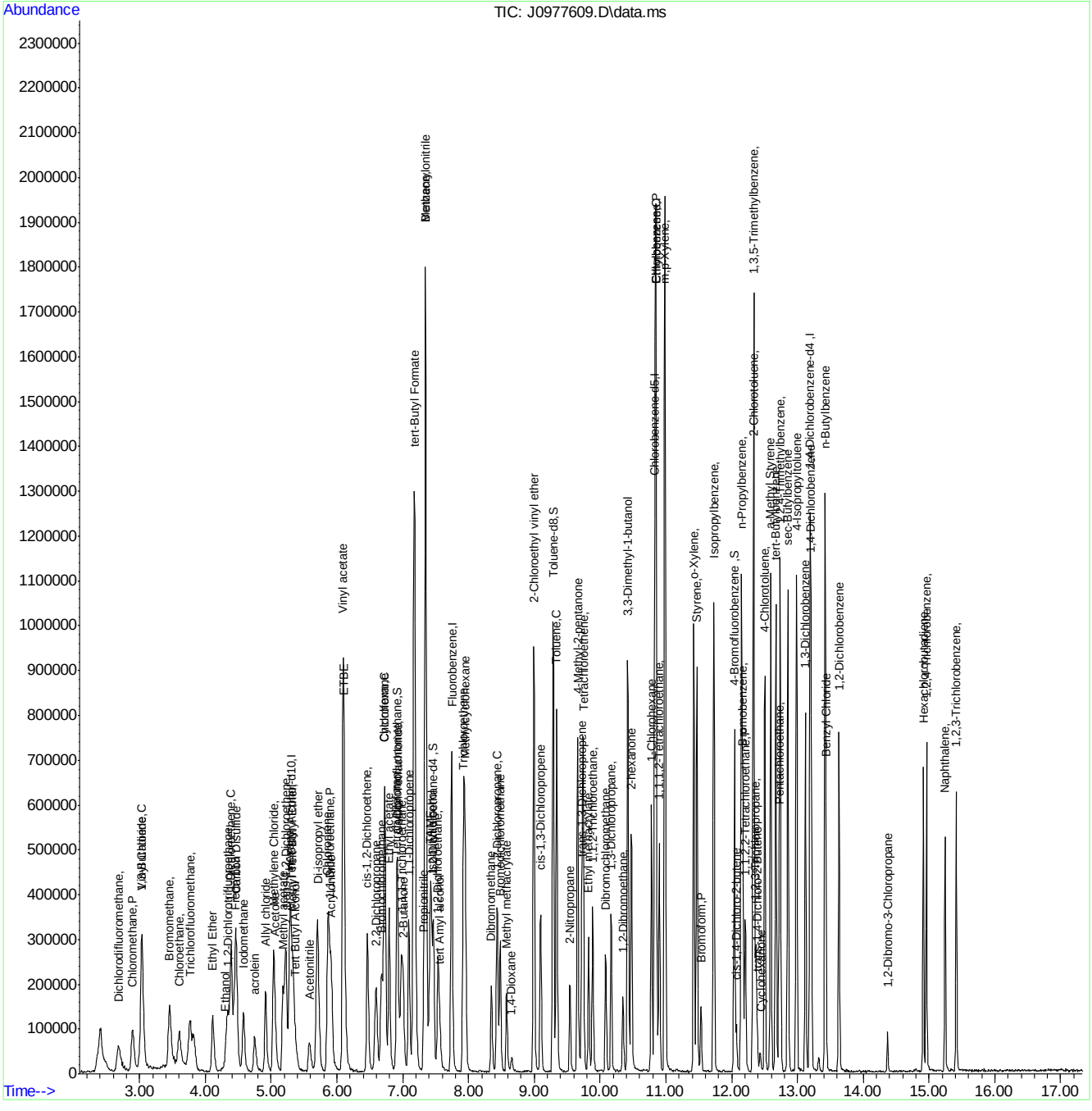
7

SGS ACCUTEST FA34821

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977609.D
Acq On : 27 Jun 2016 7:21 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34257,vj5351,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 08:19:42 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration



SGS ACCUTEST FA34821

Manual Integration Approval Summary

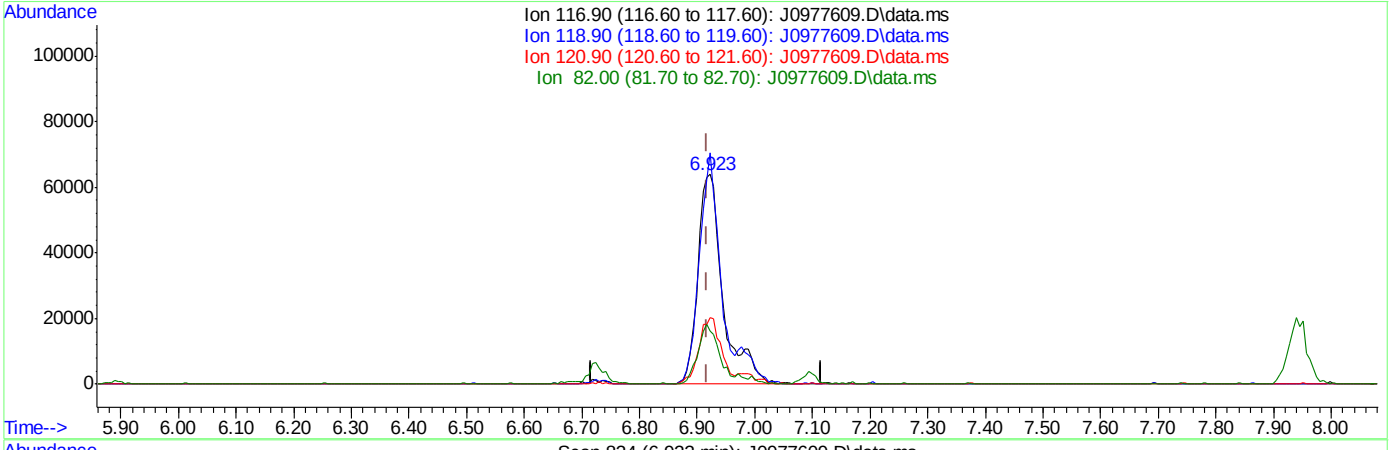
Sample Number:	VJ5351-ECC5340	**Method:**	SW846 8260B
Lab FileID:	J0977609.D	**Analyst approved:**	06/28/16 12:38 Darshna Patel
Injection Time:	06/27/16 19:21	**Supervisor approved:**	06/28/16 13:27 Juan Garcia

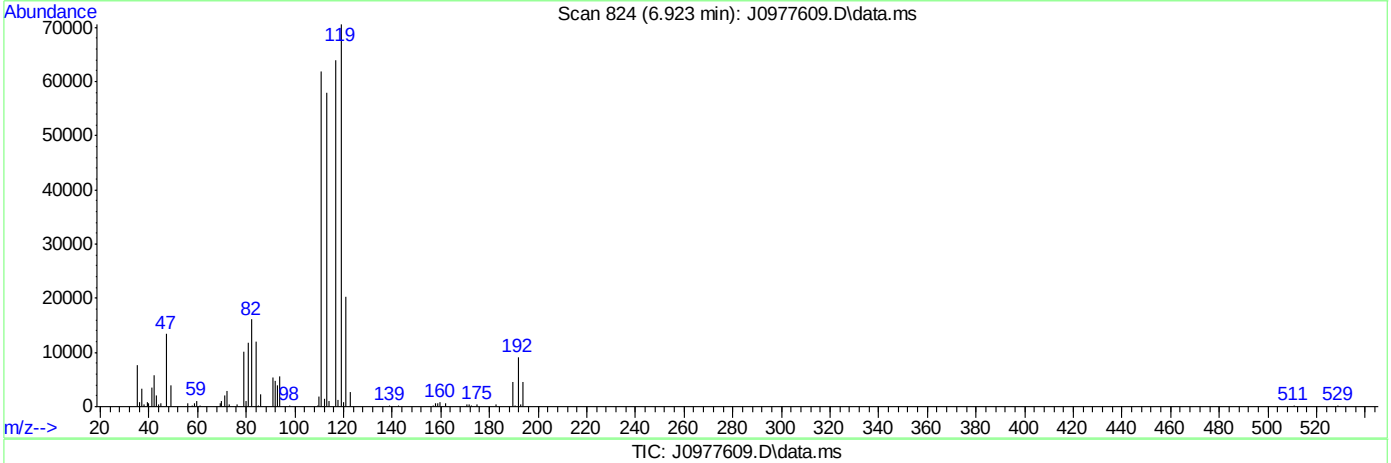
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.30	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977609.D
Acq On : 27 Jun 2016 7:21 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34257,vj5351,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 08:06:17 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977609.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 37.34ug/L

response 194387

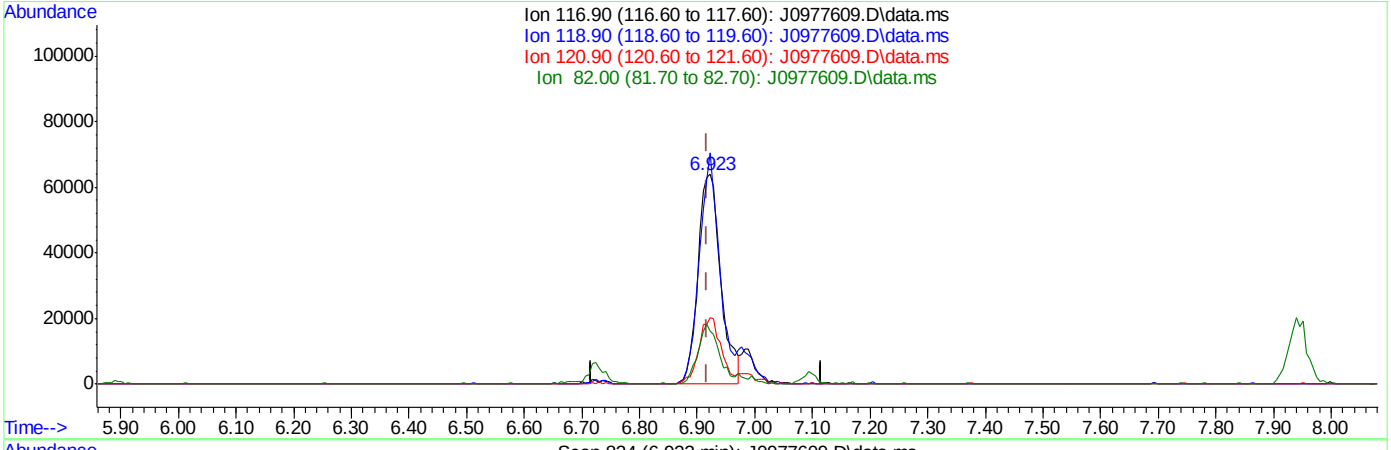
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	110.48
120.90	27.00	31.65
82.00	24.80	25.15

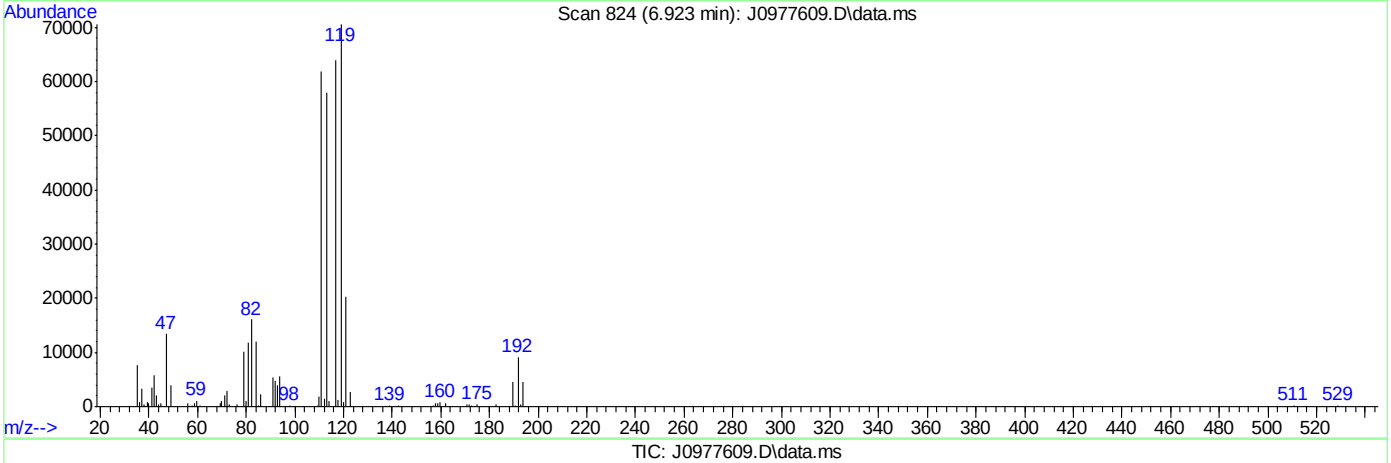
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977609.D
Acq On : 27 Jun 2016 7:21 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34257,vj5351,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 08:06:17 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977609.D\data.ms

(37) Carbon Tetrachloride ( )

6.923min (+0.006) 33.58ug/L m

response 174839

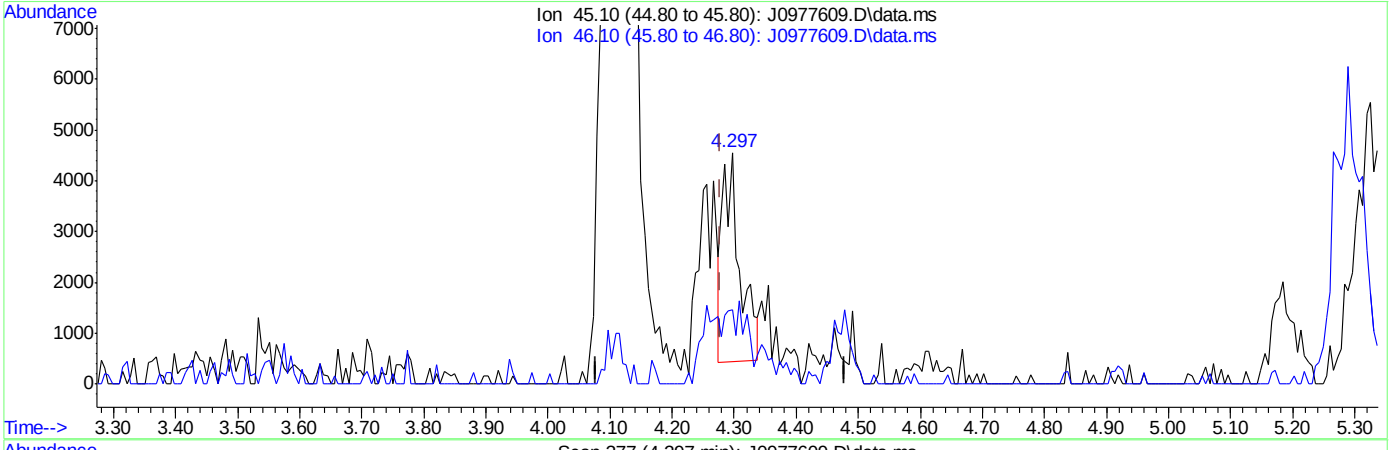
Ion	Exp%	Act%
116.90	100	100
118.90	91.80	110.48
120.90	27.00	31.65
82.00	24.80	25.15

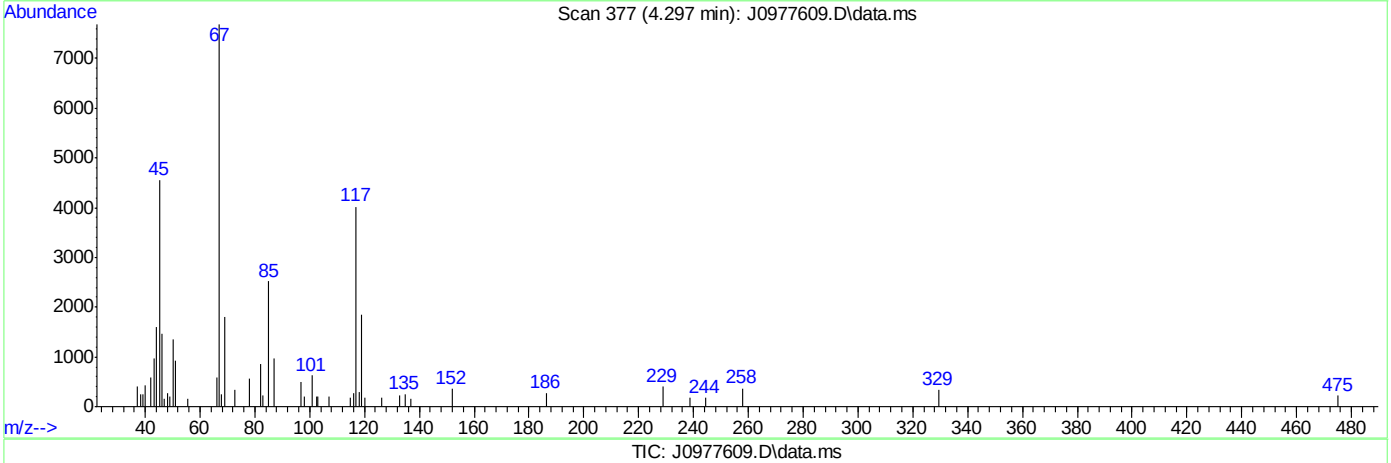
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977609.D
Acq On : 27 Jun 2016 7:21 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34257,vj5351,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 08:06:17 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977609.D\data.ms

(107) Ethanol

4.297min (+0.018) 377.37ug/L

response 8120

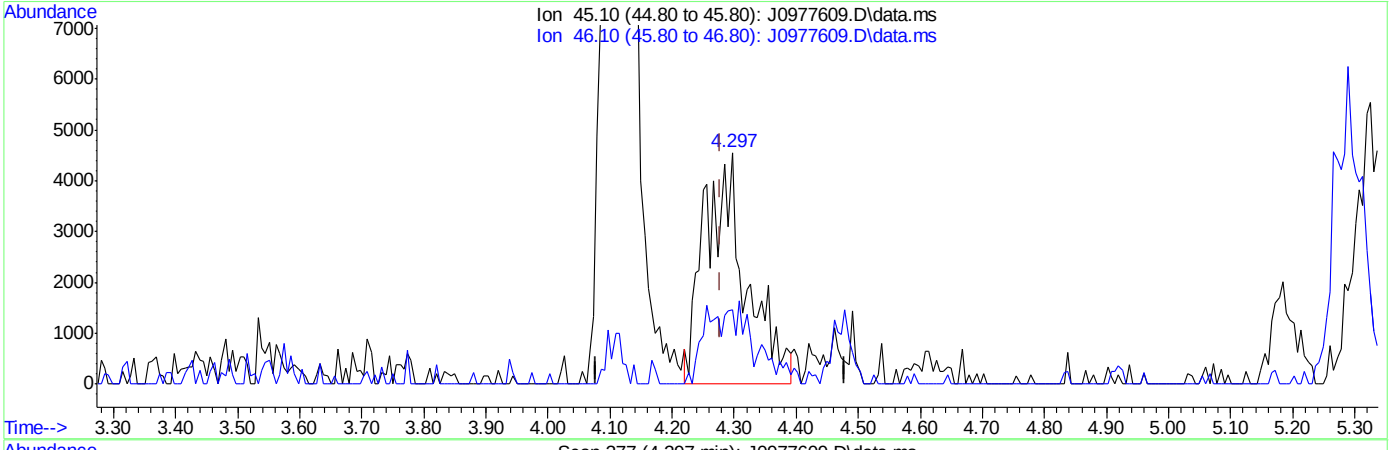
Ion	Exp%	Act%
45.10	100	100
46.10	23.90	27.76
0.00	0.00	0.00
0.00	0.00	0.00

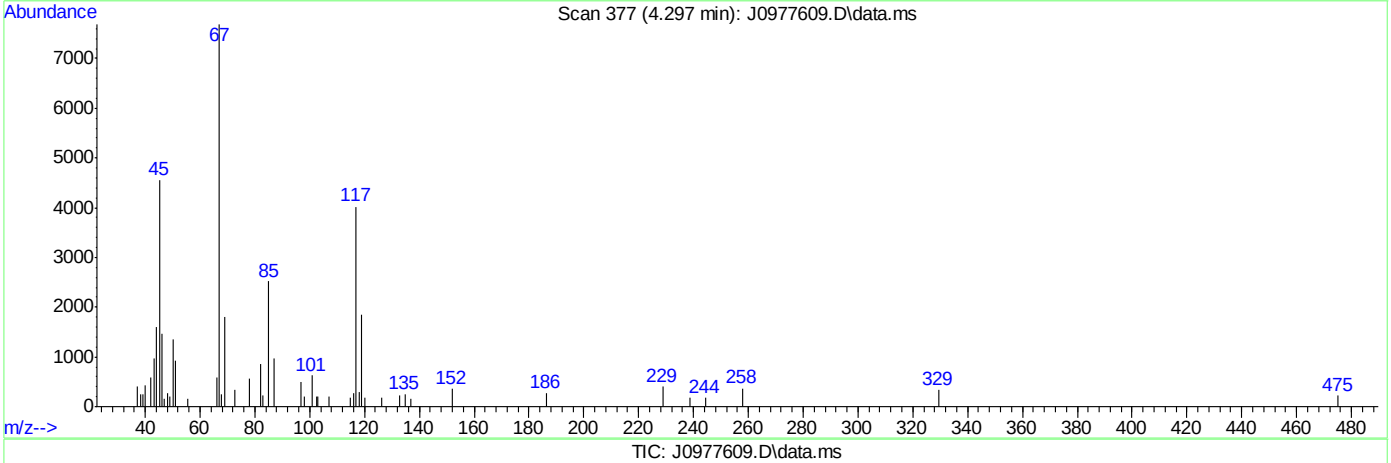
SGS ACCUTEST FA34821

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\062716\
Data File : J0977609.D
Acq On : 27 Jun 2016 7:21 pm
Operator : darshnap
Sample : ecc5340-5 Inst : MSVOA6
Misc : MS34257,vj5351,,,,,
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Jun 28 08:06:17 2016
Quant Method : C:\msdchem\1\methods\MSJ062116a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jun 21 11:35:53 2016
Response via : Initial Calibration





TIC: J0977609.D\data.ms

(107) Ethanol

4.297min (+0.018) 974.09ug/L m

response 20960

Ion	Exp%	Act%
45.10	100	100
46.10	23.90	32.16
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA34821

ACCUTEST LABORATORIES SE

DATE:	06-21-16
COLUMN TYPE:	RTX-DMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ062116A.M
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635 V
BFB RESPONSE:	1124242
RUN ID:	VJ5340

DP 06-21-16

STANDARDS

BFB:	V20346
ICAL/CCV:	V20357 V20359 V20312 V20356 V20351 V20352 V20350 V20349
ISTD/SURR:	V20363 V20346
ICV/QC:	~~V20337~~ V20320 V20311 V20305
Purge Volume	5.0ml V20294 V20296 V20362 V20306

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J09773350	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J S1	BSB			1						Auto Passed
J S2	ICS340-1			1		PII(2)(8)(9)(13)(22)(52)(97)(108)(111)				0.5ul → 50ml
J S3	-2			2		PII(2) PII(107) (112)				2.5ul → 50ml
J S4	-3			3		OP(37) PII(107)				5ul → 50ml
J S5	-4			4		PII(107)				12.5ul → 50ml
J S6	-5			5		PII(107)				20ul → 50ml
J S7	-6			6		OP(37) PII(107)				25ul → 50ml
J S8	-7			7		OP(37) PII(107)				50ul → 50ml
J S9	BLK			8						✓
J 60	ICV S340-5			1		OP(37) PII(107)				25ul → 50ml ✓
J 61	BS			2		OP(37) PII(107)				12.5ul → 40ml ✓
J 62	MB	↓		3			↓	↓		ND
J 63	FA34698-1 MA	1		4			1	N		ND
J 64	-2 MA	2		4			1			✓
J 65	-3 MA	2		5		PII(106)	1			✓
J 66	-4 MA	2		6			1			✓
J 67	-5 MA	2		7			1			✓
J 68	-6 MA	2		8			1			✓
J 69	-7 MA	2		9			1			✓
J 70	-8 MA	1		10			1			✓
J 71	-9 MA	1		11			1			ND
J 72	-2MS MA	3		12		OP(37) PII(107)	1			12.5ul → 40ml ✓
J 73	-2MSD MA	3	DP 06-21-16	13		OP(37) PII(107)	1	↓		↓ ✓
J 74	ECS340-5	–		13	↓	OP(37) PII(107)	–	–		20ul → 50ml ✓
J										
J						06-22-16 DP				

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

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	06-23-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ062116A.M
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635V
BFB RESPONSE:	773967
RUN ID:	VJ 5345/5346

STANDARDS

BFB:	V20253D
ICAL/CCV:	V20357 V20359 V20312 V20351 V20356 V20352 V20350 V20349
ISTD/SURR:	V20346
ICV/QC:	V20363 V20320 V20311 V20294
Purge Volume	5.0ml V20305 V20296 V20300 V20362

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977457	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J 58	BLK			1						✓
J 59	BFB 2ul↑			1						2ul → Auto fail
J 60	BFB 2ul↑			1						↓
J 61	BFB			1						2ul → Auto Pass
J 62	CCS340-5			1		OP(37)				20ul → 50ml
J 63	BS			1						12.5ul → 40ml
J 64	MB	↓		2		PII(106)	↓	↓		ND
J 65	FA34759-15	3		3				N		✓
J 66	FA34807-10	3		4						✓
J 67	-12, 20x	3		5		2.5ml → 50ml				✓
J 68	FA34821-1 mA	2		6						✓
J 69	-2 mA	2		7		PII(106)				✓
J 70	-8 mA	1		8						ND
J 71	FA34926-1 mA	2		9		PII(106)				✓
J 72	-2 mA	2		10		PII(2)				✓
J 73	-3 mA	2		11		PII(10)			1x	Surr↑
J 74	OP 06-23-16 -4 mA	~~4~~ 2		12						ND
J 75	-5 mA	2		13						ND
J 76	-6 mA	2		14						✓
J 77	-7 mA	2		15						✓
J 78	-8 mA, 1000x	2		16		50ul → 50ml			1000x 500x	✓ Surr↑
J 79	-9, 10x mA	3		17		5ml → 50ml			1x	
J 80	-10 mA	2		18					1x	Surr↑
J 81	-11 mA	1		19						Surr↑ ✓
J 82	-12 mA	1		20						ND
J 83	-1MS mA	3		21		PII(107)		↓		12.5ml → 50ml ✓

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

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	06-23-16
COLUMN TYPE:	RTx-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260 DP 06-23-16
METHOD FILE:	MSJ062116A.MS DP 06-23-16
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635V
BFB RESPONSE:	773967
RUN ID:	VJ 5346 / 5345

STANDARDS

BFB:	V20253D
ICAL/CCV:	V20357 V20359 V20312 V20351 V20356 V20352 V20350 V20349
ISTD/SURR:	V20346
ICV/QC:	V20363 V20320 V20311 V20394
Purge Volume	5.0ml V20305 V20296 V20200 V20362

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 84	FA34926-1MSD mA	3	W	21	8260	PII(107)	1	N		12.5ml→40ml ✓
J 85	-9ms, mA	3		22		PII(107) OP(37)	1			✓
J 86	-9msD mA	3		22		OP(37) PII(107)	1			✓
J 87	FA34807-12MS, 20x	3		23		PII(107)	1			✓
J 88	-12MSD, 20x	3		23		SP(8) PII(107) (108)	–	–		DP 06-23-16 ~~20ml→50ml~~ 12.5ml→40ml ✓
J 89	GCC5340-5	–		24		PII(107)				20ml→50ml ✓

06-24-16 DP

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

Analyst's Signature: PJA

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	06-23-16
COLUMN TYPE:	RTX-UMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ062116A.m
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635V
BFB RESPONSE:	773967
RUN ID:	VJ 5345/5346

STANDARDS

BFB:	V20253D
ICAL/CCV:	V20357 V20359 V20312 V20351 V20356 V20352 V20350 V20349
ISTD/SURR:	V20346
ICV/QC:	V20363 V20320 V20311 V20294
Purge Volume	5.0ml V20305 V20296 V20300 V20362

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977457	BLK	N/A	H_2O	1	8260		N/A	N/A		✓
J 58	BLK			1						✓
J 59	BFB 219↑			1						2ul → Auto fail
J 60	BFB 219↑			1						↓
J 61	BFB			1						2ul → Auto Pass
J 62	CCS340-5			1		OP(37)				20ul → 50ml
J 63	BS			1						12.5ul → 40ml
J 64	MB	↓		2		PII(106)	↓	↓		ND
J 65	FA34759-15	3		3			1	N		✓
J 66	FA34807-10	3		4			1			✓
J 67	-12, 20x	3		5		2.5ml → 50ml	1			✓
J 68	FA34821-1 mA	2		6			1			✓
J 69	-2 mA	2		7		PII(106)	1			✓
J 70	-8 mA	1		8			1			ND
J 71	FA34926-1 mA	2		9		PII(106)	1			✓
J 72	-2 mA	2		10		PII(2)	1			✓
J 73	-3 mA	2		11		PII(10)	1		1x	Surr ↑
J 74	OP 23-K -4 mA	~~3~~ 2		12			1			ND
J 75	-5 mA	2		13			1			ND
J 76	-6 mA	2		14			1			✓
J 77	-7 mA	2		15			1			✓
J 78	-8 mA, 1000x	2		16		50ul → 50ml	1		1000x 500x	✓ Surr ↑
J 79	-9 mA, 10x	3		17		5ml → 50ml	1		1x	
J 80	-10 mA	2		18			1		1x	Surr ↑
J 81	-11 mA	1		19			1			Surr ↑ ✓
J 82	-12 mA	1		20			1			ND
J 83	-1MS mA	3		21		PII(107)	1	↓		12.5ml → 50ml ✓

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

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	06-23-16
COLUMN TYPE:	RTx-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1 psi
ANALYST:	DP

MS VOA6-J ANALYSIS LOG

METHODS:*	8260 DP 06-23-16
METHOD FILE:	MSJ062116A.MS DP 06-23-16
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635V
BFB RESPONSE:	773967
RUN ID:	VJ 5346 / 5345

STANDARDS

BFB:	V20253D
ICAL/CCV:	V20357 V20359 V20312 V20351 V20356 V20352 V20350 V20349
ISTD/SURR:	V20346
ICV/QC:	V20363 V20320 V20311 V20294
Purge Volumes	5 ml V20305 V20296 V20200 V20367

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 84	FA34926-1MSD mA	3	W	21	8260	PII(107)	1	N		12.5ml→40ml ✓
J 85	-9ms, mA	3		22		PII(107) OP(37)	1			✓
J 86	-9msD mA	3		22		OP(37) PII(107)	1			✓
J 87	FA34807-12MS, 20x	3		23		PII(107)	1			✓
J 88	-12MSD, 20x	3		23		SP(8) PII(107) (108)	–	–		DP 06-23-16 ~~20ml→50ml~~ 12.5ml→40ml ✓
J 89	GCCS340-5	–		24		PII(107)				20ml→50ml ✓
J										
J										
J										
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06-24-16 DP

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

Analyst's Signature: PJA

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	06-24-16
COLUMN TYPE:	RTX-Vms
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ062416A.m
CALIB. DATE:	06-24-16
EM VOLTAGE:	1635V
BFB RESPONSE:	101153
RUN ID:	VJ5347/5348

STANDARDS

BFB:	V20346
ICAL/CCV:	V20357 V20359 V20352 V20356 V20351 V20374 V20349 V20350
ISTD/SURR:	V20346
ICV/QC:	V20363 V20320 V20296 V20311
Purge Volume 5ml	V20305 V20294 V20362 V20300

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977490	BLK	N/A	H_2O	1	8260		N/A	N/A		✓
J 91	BFB			1						Auto Passed
J 92	CCS340-5			1		OP(37) PII(107)				20ml→50ml
J 93	BS			1		PII(107)				12.5ml→40ml
J 94	MB			2						ND
J 95	FA34832-1, 100x	2		1		0.5ml→50ml PII(32)		N		✓
J 96	-2	2		2						✓
J 97	-3, 2x	2		3		25ml→50ml OP(32)				✓
J 98	-4	2		4						ND
J 99	-5, 10x	2		5		5ml→50ml OP(32)				✓
J 500	-6	2		6						ND
J 01	-7	2		7						✓
J 02	-8	2		8						ND
J 03	-9	2		9						ND
J 04	-10	2		10		PII(106)				ND IS ↑
J 05	-11	2		11		PII(106)				ND
J 06	FA34926-3 MA	3		12		PII(96)				✓
J 07	-9 MA	2		13						✓
J 08	-10 MA	3		14		PII(109)				✓
J 09	FA34821-3 MA, 100x	2		15		0.5ml→50ml			1000x	mp xylene ↑
J 10	-4 MA, 2x	2		16		25ml→50ml PII(21)			1X	
J 11	-5 MA	2		17						✓
J 12	-6 MA, 50x	2		18		1ml→50ml			250x	mp xylene ↑
J 13	-7 MA	2		19						ND
J 14	FA34926-8 MA, 1000x	3		20		50ml→50ml				✓
J 15	-9 MA MS	S		21		PII(107)				12.5ml→40ml ✓
J 16	-9 MA MSD	S		21		OP(37) PII(107)				✓
17, 18	FA34832-3 MS, MSD, 10x	2		22		5ml→50ml PII(106) (107)				
19	ECC5340-5	—		23		OP(37)	—	—		20ml→50ml ✓

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

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

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

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

Analyst's Signature: DP

msvoa6_j_log.xls NF 08/10

ACCUTEST LABORATORIES SE

DATE:	06-24-16
COLUMN TYPE:	RTX-Vms
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ062116A.m
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635V
BFB RESPONSE:	1011153
RUN ID:	VJ 5347 / 5348

STANDARDS

BFB:	V20346
ICAL/CCV:	V20357 V20359 V20352 V20356 V20351 V20374 V20349 V20350
ISTD/SURR:	V20346
ICV/QC:	V20363 V20320 V20296 V20311
Purge Volume 5ml	V20305 V20294 V20362 V20300

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977490	BLK	N/A	H_2O	1	8260		N/A	N/A		✓
J 91	BFB			1						Auto Passed
J 92	CCS340-5			1		OP(37) PII(107)				20ul→50ml
J 93	BS			1		PII(107)				12.5ul→40ml
J 94	MB			2						ND
J 95	FA34832-1, 100x	2		1		0.5ul→50ml PII(32)	1	N		✓
J 96	-2	2		2			1			✓
J 97	-3, 2x	2		3		25ul→50ml OP(32)	1			✓
J 98	-4	2		4			1			ND
J 99	-5, 10x	2		5		5ul→50ml OP(32)	1			✓
J 500	-6	2		6			1			ND
J 01	-7	2		7			1			✓
J 02	-8	2		8			1			ND
J 03	-9	2		9			1			ND
J 04	-10	2		10		PII(106)	1			ND IS ↑
J 05	-11	2		11		PII(106)	1			ND
J 06	FA34926-3mA	3		12		PII(96)	1			✓
J 07	-9 mA	2		13			1			✓
J 08	-10 mA	3		14		PII(109)	1			✓
J 09	FA34821-3 mA, 100x	2		15		0.5ul→50ml	1		1000x	mp xylene ↑
J 10	-4 mA, 2x	2		16		25ul→50ml PII(21)	1		1X	
J 11	-5 mA	2		17			1			✓
J 12	-6 mA, 50x	2		18		1ul→50ml	1		250x	mp xylene ↑
J 13	-7 mA	2		19			1			ND
J 14	FA34926-8mA, 1000x	3		20		50ul→50ml	1			✓
J 15	-9mA MS	5		21		PII(107)	1			12.5ul→40ml ✓
J 16	-9mA MSD	5		21		OP(37) PII(107)	1			✓
17, 18	FA34832-5 MS, MSD, 10x	2		22		5ul→50ml PII(106) (107)	1			✓
19	CCC5340-5	—		23		OP(37)	—	—		20ul→50ml ✓

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

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

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

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

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	06-27-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1 psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS1062116A.m
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635V
BFB RESPONSE:	9.24 2.45
RUN ID:	VJ5351/5352

STANDARDS

BFB:	V20330D
ICAL/CCV:	V20379 V20359 V20374 V20356 V20351 V20352 V20349 V20350
ISTD/SURR:	V20346
ICV/QC:	V20363 V20305 V20320 V20311
Purge Volume 5ml	V20296 V20294 V20362 V20300

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977580	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J 81	BLK			1						✓
J 82	BFB			1						2ul→Auto Pass
J 83	CCS340-5			1						20ul→5ml
J 84	BS			1						12.5ul→4ml
J 85	MB			2						ND
J 86	FA34821-4MA	3		3			1	N		✓
J 87	-3MA, 1000x	3		4			1			✓
J 88	-6MA, 250x	3		5			1			✓
J 89	FA34866-11	2		6			1			ND
J 90	-12	2		7			1			✓
J 91	-13	2		8			1			ND
J 92	-14	2		9		PII(21)	1			✓
J 93	-15, 20x	2		10		2.5ul→5ml	1			✓
J 94	-16	1		11		PII(106)	1			ND
J 95	-17	1		12			1			ND
J 96	-18	2		13		PII(106)	1			ND
J 97	FA34867-1	2		14			1			✓
J 98	-2, 20x	2		15		2.5ul→5ml	1			✓
J 99	-3	2		16			1			ND
J 600	-4	2		17			1			ND
J 01	-5	2		18		OP(32)	1		10x	Mpxylene ↑ EB↑
J 02	FA34866-1/5x	3		19		HS	1			✓ C.comb.
J 03	-2/5x	3		20		HS	1			✓
J 04	FA34866-6	3		21			1			ND
J 05	FA34821-6MAMS 250x	3		22		PII(107) OP(37)	1			12.5ul→4ml ✓
J 06	-6MSDMA 250	3		22		PII(107)	1			✓
07, 08	FA34866-12 MS, MSD	2		23		PII(107) PII(107)	1			✓

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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: TeD

09 Ecc 5340 -5 24 msvoad_j_log.xls NF 06/10 20ul→5ml ✓

ACCUTEST LABORATORIES SE

DATE:	06-27-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.5psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS062116A.m
CALIB. DATE:	06-21-16
EM VOLTAGE:	1635V
BFB RESPONSE:	94 245
RUN ID:	VJ5351/5352

STANDARDS

BFB:	V20330D
ICAL/CCV:	V20379 V20359 V20374 V20356 V20351 V20352 V20349 V20350
ISTD/SURR:	V20346
ICV/QC:	V20363 V20305 V20320 V20311
Purge Volume 5ml	V20296 V20294 V20362 V20300

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977580	Blk	N/A	H_2O	1	8260		N/A	N/A		✓
J 81	Blk			1						✓
J 82	BFB			1						2ul→Auto Pass
J 83	CC5340-5			1						20ul→5ml
J 84	BS			1						12.5ul→40ml
J 85	MB			2						ND
J 86	FA34821-4MA	3		3			1	N		✓
J 87	-3MA, 100x	3		4			1			✓
J 88	-6MA, 250x	3		5			1			✓
J 89	FA34866-11	2		6			1			ND
J 90	-12	2		7			1			✓
J 91	-13	2		8			1			ND
J 92	-14	2		9		PII(21)	1			✓
J 93	-15, 20x	2		10		2.5ul→5ml	1			✓
J 94	-16	1		11		PII(106)	1			ND
J 95	-17	1		12			1			ND
J 96	-18	2		13		PII(106)	1			ND
J 97	FA34867-1	2		14			1			✓
J 98	-2, 20x	2		15		2.5ul→5ml	1			✓
J 99	-3	2		16			1			ND
J 600	-4	2		17			1			ND
J 01	-5	2		18		OP(32)	1		10x	Mpxylene ↑ EB↑
J 02	FA34866-1, 5x	3		19		HS	1			✓ E.comb.
J 03	-2, 5x	3		20		HS	1			✓ ↓
J 04	FA34866-6	3		21			1			ND
J 05	FA34821-6MAMS 250x	3		22		PII(107) OP(37)	1			12.5ul→40ml ✓
J 06	-6MSDMA 250x	3		22		PII(107)	1			✓
07, 08	FA34866-12 MS, MSD	2		23		PII(107)	1			✓

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

Analyst's Signature: TCD

09 Ecc 5340 - 5 24 PII(107) msvoa6_16g.xls NF 06/10 20ul→5ml ✓