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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: FA33606

Sampling Dates: 04/11/16 - 05/02/16

Report to:

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ATTN: Terry Taylor

Total number of pages in report: **314**

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Norm Farmer
Technical Director

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Sample Summary

Anderson, Mulholland & Associates

Job No: FA33606

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA33606-1	04/28/16	16:15	TRL	05/03/16	AQ	Equipment Blank	BPEB-9
FA33606-2	04/30/16	12:00	TRL	05/03/16	AQ	Equipment Blank	BPEB-10
FA33606-3	05/02/16	11:30	TRL	05/03/16	AQ	Ground Water	RA-18 GWS
FA33606-4	05/02/16	13:00	TRL	05/03/16	SO	Soil	RA-18 (12.5-13.5)
FA33606-5	04/11/16	06:30	TRL	05/03/16	AQ	Trip Blank Water	TB050216
FA33606-6	05/02/16	00:00	TRL	05/03/16	AQ	Equipment Blank	BPEB-11

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

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job No:** FA33606

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 5/17/2016 2:18:49 PM

5 Sample(s), 1 Trip Blank(s) were collected on/ between 04/11/2016 and 05/02/2016 and were received at SGS Accutest Southeast (SASE) on 05/03/2016 properly preserved, at 2.6 Deg. C and intact. These Samples received an SASE job number of FA33606. 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:** VJ5285

All method blanks for this batch meet method specific criteria.

Sample(s) FA33606-3MS, FA33606-3MSD were used as the QC samples indicated.

The following samples were run outside of holding time for method SW846 8260C: FA33606-5. Sample received outside the holding time.

FA33606-5: Sample received outside the holding time. This sample is a Trip Blank.

Matrix: SO **Batch ID:** VY1145

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FA33606-4MS, FA33606-4MSD were used as the QC samples indicated.

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

Wet Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN70930

Sample(s) FA33835-1DUP were used as the QC samples for Solids, Percent.

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

Narrative prepared by:

_____ Date: May 17, 2016

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual Integrations
FA33606-3MS	MSVOA	J0976287.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
FA33606-3MSD	MSVOA	J0976288.D	Carbon Tetrachloride, Ethyl Alcohol
VJ5237-IC5237	MSVOA	J0975150.D	Methyl Bromide, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975151.D	Ethyl Alcohol, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975152.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975153.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975155.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-IC5237	MSVOA	J0975156.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-ICC5237	MSVOA	J0975154.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5237-ICV5237	MSVOA	J0975159.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5285-BS	MSVOA	J0976280.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5285-CC5237	MSVOA	J0976279.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VY1133-IC1133	MSVOA	Y28092.D	Ethyl Alcohol

13 Manual Integrations were found for FA33606

Summary of Hits

Job Number: FA33606
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 04/11/16 thru 05/02/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA33606-1	**BPEB-9**					
No hits reported in this sample.						
FA33606-2	**BPEB-10**					
No hits reported in this sample.						
FA33606-3	**RA-18 GWS**					
No hits reported in this sample.						
FA33606-4	**RA-18 (12.5-13.5)**					
Acetone		98.6	69	14	ug/kg	SW846 8260C
2-Butanone (MEK)		19.8 J	34	13	ug/kg	SW846 8260C
FA33606-5	**TB050216**					
No hits reported in this sample.						
FA33606-6	**BPEB-11**					
No hits reported in this sample.						

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	BPEB-9		
Lab Sample ID:	FA33606-1	**Date Sampled:**	04/28/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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	J0976282.D	1	05/04/16	DP	n/a	n/a	VJ5285
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 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:	BPEB-9		
Lab Sample ID:	FA33606-1	**Date Sampled:**	04/28/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

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

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

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Report of Analysis

Client Sample ID:	BPEB-10		
Lab Sample ID:	FA33606-2	**Date Sampled:**	04/30/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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	J0976283.D	1	05/04/16	DP	n/a	n/a	VJ5285
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

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

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

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

Report of Analysis

Client Sample ID:	BPEB-10		
Lab Sample ID:	FA33606-2	**Date Sampled:**	04/30/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-18 GWS		
Lab Sample ID:	FA33606-3	**Date Sampled:**	05/02/16
Matrix:	AQ - Ground Water	**Date Received:**	05/03/16
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	J0976284.D	1	05/04/16	DP	n/a	n/a	VJ5285
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:	RA-18 GWS		
Lab Sample ID:	FA33606-3	**Date Sampled:**	05/02/16
Matrix:	AQ - Ground Water	**Date Received:**	05/03/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	99%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	103%		83-118%

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA-18 (12.5-13.5)		
Lab Sample ID:	FA33606-4	**Date Sampled:**	05/02/16
Matrix:	SO - Soil	**Date Received:**	05/03/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	78.1
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y28301.D	1	05/03/16	AD	05/03/16 10:53	n/a	VY1145
Run #2							

	Initial Weight	Final Volume
Run #1	4.64 g	5.0 ml
Run #2		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	98.6	69	14	ug/kg	
71-43-2	Benzene	ND	6.9	1.7	ug/kg	
100-44-7	Benzyl Chloride	ND	6.9	1.9	ug/kg	
74-97-5	Bromochloromethane	ND	6.9	1.5	ug/kg	
75-27-4	Bromodichloromethane	ND	6.9	1.4	ug/kg	
75-25-2	Bromoform	ND	6.9	1.4	ug/kg	
78-93-3	2-Butanone (MEK)	19.8	34	13	ug/kg	J
75-15-0	Carbon Disulfide	ND	6.9	1.4	ug/kg	
56-23-5	Carbon Tetrachloride	ND	6.9	2.5	ug/kg	
108-90-7	Chlorobenzene	ND	6.9	1.4	ug/kg	
75-00-3	Chloroethane	ND	6.9	2.8	ug/kg	
67-66-3	Chloroform	ND	6.9	1.7	ug/kg	
110-82-7	Cyclohexane	ND	6.9	1.7	ug/kg	
124-48-1	Dibromochloromethane	ND	6.9	1.4	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	6.9	3.1	ug/kg	
106-93-4	1,2-Dibromoethane	ND	6.9	1.4	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.9	3.4	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.9	1.4	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.9	1.4	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.9	1.4	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.9	2.3	ug/kg	
107-06-2	1,2-Dichloroethane	ND	6.9	1.4	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	6.9	1.4	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	6.9	1.7	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	6.9	2.1	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.9	2.2	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.9	2.6	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.9	1.4	ug/kg	
100-41-4	Ethylbenzene	ND	6.9	1.5	ug/kg	
76-13-1	Freon 113	ND	6.9	1.6	ug/kg	
591-78-6	2-Hexanone	ND	34	12	ug/kg	
98-82-8	Isopropylbenzene	ND	6.9	1.9	ug/kg	

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

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

Report of Analysis

Client Sample ID:	RA-18 (12.5-13.5)		
Lab Sample ID:	FA33606-4	**Date Sampled:**	05/02/16
Matrix:	SO - Soil	**Date Received:**	05/03/16
Method:	SW846 8260C SW846 5035	**Percent Solids:**	78.1
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

CAS No.	Compound	Result	RL	MDL	Units	Q
99-87-6	p-Isopropyltoluene	ND	6.9	1.4	ug/kg	
79-20-9	Methyl Acetate	ND	34	12	ug/kg	
74-83-9	Methyl Bromide	ND	6.9	3.6	ug/kg	
74-87-3	Methyl Chloride	ND	6.9	3.3	ug/kg	
108-87-2	Methylcyclohexane	ND	6.9	1.4	ug/kg	
75-09-2	Methylene Chloride	ND	14	5.5	ug/kg	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	34	15	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	6.9	1.5	ug/kg	
100-42-5	Styrene	ND	6.9	1.4	ug/kg	
75-85-4	Tert-Amyl Alcohol	ND	69	19	ug/kg	
75-65-0	Tert-Butyl Alcohol	ND	69	19	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.9	3.0	ug/kg	
127-18-4	Tetrachloroethylene	ND	6.9	1.8	ug/kg	
109-99-9	Tetrahydrofuran	ND	14	5.0	ug/kg	
108-88-3	Toluene	ND	6.9	1.6	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.9	2.7	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.9	2.0	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.9	1.4	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.9	2.5	ug/kg	
79-01-6	Trichloroethylene	ND	6.9	1.6	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.9	2.6	ug/kg	
95-63-6	1,2,4-Trimethylbenzene	ND	6.9	1.4	ug/kg	
75-01-4	Vinyl Chloride	ND	6.9	2.3	ug/kg	
	m,p-Xylene	ND	14	2.4	ug/kg	
95-47-6	o-Xylene	ND	6.9	1.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		75-124%
17060-07-0	1,2-Dichloroethane-D4	102%		72-135%
2037-26-5	Toluene-D8	101%		75-126%
460-00-4	4-Bromofluorobenzene	107%		71-133%

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:	TB050216		
Lab Sample ID:	FA33606-5	**Date Sampled:**	04/11/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/03/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	J0976285.D	1	05/04/16	DP	n/a	n/a	VJ5285
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:	TB050216		
Lab Sample ID:	FA33606-5	**Date Sampled:**	04/11/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/03/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	104%		83-118%

(a) Sample received outside the holding time.

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:	BPEB-11		
Lab Sample ID:	FA33606-6	**Date Sampled:**	05/02/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
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	J0976286.D	1	05/04/16	DP	n/a	n/a	VJ5285
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM02.0)

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

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

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

Report of Analysis

Client Sample ID:	BPEB-11		
Lab Sample ID:	FA33606-6	**Date Sampled:**	05/02/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/03/16
Method:	SW846 8260C	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Humacao, PR		

VOA TCL List (SOM02.0)

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

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		83-118%
17060-07-0	1,2-Dichloroethane-D4	98%		79-125%
2037-26-5	Toluene-D8	100%		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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST - FL

CHAIN OF CUSTODY

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

FA33606 PAGE 1 OF 1

809960569750

Bottle Order Control #

SGS Accutest Quote #

SGS Accutest Job # Get from NJ

Client / Reporting Information

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

Project Information

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

Billing Information (if different from Report to)

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

Requested Analysis (see TEST CODE sheet)

VOC - Method 8260C

Matrix Codes

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

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOC - Method 8260C	LAB USE ONLY
1	BPEB-9		4/28/16	1615	TT	EB	3	3								X	
2	BPEB-10		4/30/16	1200	TT	EB	3	3								X	
3	RA-18 GWS		5/2/16	1130	TT	GW	3	3								X	
4	RA-18 (12.5-13.5)		5/2/16	1300	TT	SO	4						1		3	X	
6	BPEB-11		5/2/16		TT	EB	3	3								X	
5	TB050216		4/11/16	0630		TB	2	2								X	

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

- [x] Std. 10 Business Days For Soil samples
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [x] 1 Day RUSH For Aqueous Samples
- [ ] other

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

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

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

Comments / Special Instructions

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

Sample inventory is verified upon receipt in the Laboratory

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	2 May 16 1500	1 Fed Ex	2 FX		2 [signature] 5/3/16 900
3		3	4		4
5		5			

Custody Seal # 464 [ ] Intact [ ] Not intact

Preserved where applicable [ ]

On Ice [x]

Cooler Temp. 2-6

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FA33606: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA33606 CLIENT: Anderson Mulholland PROJECT: RMS

DATE/TIME RECEIVED: 5/3/16 900 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 8099 6056 9750

COOLER INFORMATION

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

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.2
- [ ] OBSERVED TEMPS: 2.4
- [ ] CORRECTED TEMPS: 2.6 (USED FOR LIMS)

TRIP BLANK INFORMATION

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

SAMPLE INFORMATION

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

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM 5-GRAM

NUMBER OF 5035 FIELD KITS ?

NUMBER OF LAB FILTERED METALS ?

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

SUMMARY OF COMMENTS: no bottles received for "BPEB-11 5/2/16"

TECHNICIAN SIGNATURE/DATE 5/3/16 REVIEWER SIGNATURE/DATE JC 5-3-16

NF 11/15 RECEIPTLOG040416.xls

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FA33606: Chain of Custody
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FedEx Express International Air Waybill

Origin Copy

1 From
Date 05/02/16 Sender's FedEx Account Number
Sender's Name David Lindstrand Phone 787-487-4290
Company Anderson Mulholland Assoc. Inc.
Address BMS in care of
Address Rd #3, Km 77.5
City Humacao State Province PR
Country USA ZIP Postal Code 00791

2 To
Recipient's Name Sample 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/HFC/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 1 Shipper's Load and Count/SLAC
Total Weight 14 lbs/kg DIM 17,10,11 in/cm

Commodity Description	Harmonized Code	Country of Manufacture	Value for Customs
Groundwater samples		USA	0
Soil 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:
If other than NLR, enter License Exception:
Yes – Enter AES proof of filing citation:
Total Declared Value for Carriage NCV
Total Value for Customs (Specify Currency) $NCV

4 Express Package Service
1 [X] FedEx Intl. Priority
6 [ ] FedEx Intl. First Available to select locations.
3 [ ] FedEx Intl. Economy FedEx Envelope and FedEx Pak rate not available.
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.

5 Packaging
*These unique brown boxes with special pricing are provided by FedEx for FedEx Intl. Priority only.
6 [X] FedEx Envelope 2 [ ] FedEx Pak 3 [ ] FedEx Box 4 [ ] FedEx Tube
1 [X] Other PW [ ] FedEx 10kg Box* PX [ ] FedEx 25kg Box*

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

7 Payment
Complete payment options for both transportation charges and duties and taxes.
Bill transportation charges to:
Enter FedEx Acct. No. or Credit Card No. below.
1 [ ] Sender Acct. No. in Section 1 will be billed. 2 [X] Recipient 3 [ ] Third Party 4 [ ] Credit Card 5 [ ] Cash Check/Cheque
FedEx Acct. No. 1147-5950-3
Credit Card Exp. Date
Total Transportation
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 Release Assess

9 Required Signature
Use of this Air Waybill constitutes your agreement to the Conditions of Contract on the back of this Air Waybill, and you represent that this shipment does not require a U.S. State Department License or contain dangerous goods. Certain international treaties, including the Warsaw Convention, may apply to this shipment and limit our liability for damage, loss, or delay, as described in the Conditions of Contract.
WARNING: These commodities, technology, or software were exported from the United States in accordance with Export Administration Regulations. Diversion contrary to U.S. law prohibited.
Sender's Signature:
This is not authorized to deliver this shipment without a recipient signature.
Received above shipment in good order and condition. We agree to pay all charges, including Customs duties and taxes as applicable, and we agree to the Conditions of Carriage as stated on the reverse side of the Recipient's Copy.
Recipient's Signature:

FedEx Tracking Number 8099 6056 9750 0402

Origin Station ID NNDC
Country Code/Destination Station ID XHTXA
URSA Routing TIXA
Handling Units
Total Volume (cm)
Received At: 1 [ ] Reg. Stop 2 [ ] On-Call Stop 3 [ ] Drop Box 4 [ ] World Service Center 5 [ ] Station
Forms Attached: [ ] CI [ ] CO
Base Charges FedEx Emp. # 322371
Declared Val. Chrg. Audit Emp. # Other
Date 5-2-16 Time 16:
ODA/DGA Int. Courier Emp. #
Credit Card Auth.
Date Time

568
PART 158410 Rev. Date 11/08 ©1994–2008 FedEx PRINTED IN U.S.A. RRDA
Form ID No.
RRDA 12/15

Non-Negotiable International Air Waybill • ©1994–2008 FedEx

PACKAGE LABEL
COMMERCIAL INVOICE LABEL
DELIVERY RECORD LABEL
DELIVERY REATTEMPT LABEL

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FA33606: Chain of Custody
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GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1145-MB	Y28296.D	1	05/03/16	AD	n/a	n/a	VY1145

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

FA33606-4

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

Method Blank Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1145-MB	Y28296.D	1	05/03/16	AD	n/a	n/a	VY1145

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

FA33606-4

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

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	100%	75-124%
17060-07-0	1,2-Dichloroethane-D4	105%	72-135%
2037-26-5	Toluene-D8	98%	75-126%
460-00-4	4-Bromofluorobenzene	109%	71-133%

Method Blank Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5285-MB	J0976281.D	1	05/04/16	DP	n/a	n/a	VJ5285

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

FA33606-1, FA33606-2, FA33606-3, FA33606-5, FA33606-6

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: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5285-MB	J0976281.D	1	05/04/16	DP	n/a	n/a	VJ5285

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

FA33606-1, FA33606-2, FA33606-3, FA33606-5, FA33606-6

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	97%	79-125%
2037-26-5	Toluene-D8	102%	85-112%
460-00-4	4-Bromofluorobenzene	106%	83-118%

Blank Spike Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1145-BS	Y28295.D	1	05/03/16	AD	n/a	n/a	VY1145

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

FA33606-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	250	197	79	61-152
71-43-2	Benzene	50	49.9	100	76-126
100-44-7	Benzyl Chloride	50	47.1	94	65-126
74-97-5	Bromochloromethane	50	51.6	103	77-120
75-27-4	Bromodichloromethane	50	51.1	102	74-130
75-25-2	Bromoform	50	57.5	115	76-127
78-93-3	2-Butanone (MEK)	250	224	90	75-137
75-15-0	Carbon Disulfide	50	45.0	90	72-122
56-23-5	Carbon Tetrachloride	50	56.2	112	78-133
108-90-7	Chlorobenzene	50	51.8	104	81-129
75-00-3	Chloroethane	50	42.9	86	68-133
67-66-3	Chloroform	50	48.6	97	72-123
110-82-7	Cyclohexane	50	49.0	98	73-126
124-48-1	Dibromochloromethane	50	53.1	106	76-127
96-12-8	1,2-Dibromo-3-chloropropane	50	41.3	83	70-137
106-93-4	1,2-Dibromoethane	50	50.1	100	77-126
75-71-8	Dichlorodifluoromethane	50	54.6	109	68-168
95-50-1	1,2-Dichlorobenzene	50	49.4	99	80-129
541-73-1	1,3-Dichlorobenzene	50	50.0	100	81-129
106-46-7	1,4-Dichlorobenzene	50	48.9	98	76-130
75-34-3	1,1-Dichloroethane	50	46.9	94	73-125
107-06-2	1,2-Dichloroethane	50	48.7	97	74-128
75-35-4	1,1-Dichloroethylene	50	46.2	92	81-136
156-59-2	cis-1,2-Dichloroethylene	50	48.0	96	74-126
156-60-5	trans-1,2-Dichloroethylene	50	51.1	102	70-127
78-87-5	1,2-Dichloropropane	50	48.7	97	74-125
10061-01-5	cis-1,3-Dichloropropene	50	51.2	102	80-123
10061-02-6	trans-1,3-Dichloropropene	50	56.6	113	75-131
100-41-4	Ethylbenzene	50	52.6	105	77-123
76-13-1	Freon 113	50	45.4	91	71-129
591-78-6	2-Hexanone	250	225	90	72-133
98-82-8	Isopropylbenzene	50	55.0	110	80-136
99-87-6	p-Isopropyltoluene	50	50.7	101	77-131
79-20-9	Methyl Acetate	250	239	96	67-137
74-83-9	Methyl Bromide	50	48.6	97	65-139
74-87-3	Methyl Chloride	50	49.3	99	71-144

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1145-BS	Y28295.D	1	05/03/16	AD	n/a	n/a	VY1145

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

FA33606-4

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
108-87-2	Methylcyclohexane	50	50.9	102	75-128
75-09-2	Methylene Chloride	50	46.6	93	74-137
108-10-1	4-Methyl-2-pentanone (MIBK)	250	239	96	76-132
1634-04-4	Methyl Tert Butyl Ether	50	51.7	103	77-120
100-42-5	Styrene	50	55.1	110	78-125
75-85-4	Tert-Amyl Alcohol	500	431	86	69-130
75-65-0	Tert-Butyl Alcohol	500	443	89	58-136
79-34-5	1,1,2,2-Tetrachloroethane	50	42.2	84	71-126
127-18-4	Tetrachloroethylene	50	55.6	111	79-130
109-99-9	Tetrahydrofuran	50	49.7	99	70-133
108-88-3	Toluene	50	50.6	101	76-124
87-61-6	1,2,3-Trichlorobenzene	50	53.4	107	77-128
120-82-1	1,2,4-Trichlorobenzene	50	54.7	109	78-130
71-55-6	1,1,1-Trichloroethane	50	50.2	100	70-129
79-00-5	1,1,2-Trichloroethane	50	47.7	95	74-124
79-01-6	Trichloroethylene	50	47.6	95	75-128
75-69-4	Trichlorofluoromethane	50	50.8	102	73-145
95-63-6	1,2,4-Trimethylbenzene	50	50.1	100	74-123
75-01-4	Vinyl Chloride	50	47.5	95	76-141
	m,p-Xylene	100	104	104	80-128
95-47-6	o-Xylene	50	53.2	106	80-132

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	75-124%
17060-07-0	1,2-Dichloroethane-D4	98%	72-135%
2037-26-5	Toluene-D8	97%	75-126%
460-00-4	4-Bromofluorobenzene	100%	71-133%

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5285-BS	J0976280.D	1	05/04/16	DP	n/a	n/a	VJ5285

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

FA33606-1, FA33606-2, FA33606-3, FA33606-5, FA33606-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	125	122	98	50-147
71-43-2	Benzene	25	27.0	108	81-122
100-44-7	Benzyl Chloride	25	24.1	96	54-122
74-97-5	Bromochloromethane	25	24.3	97	76-123
75-27-4	Bromodichloromethane	25	27.0	108	79-123
75-25-2	Bromoform	25	25.6	102	66-123
78-93-3	2-Butanone (MEK)	125	119	95	56-143
75-15-0	Carbon Disulfide	25	30.3	121	66-148
56-23-5	Carbon Tetrachloride	25	31.8	127	76-136
108-90-7	Chlorobenzene	25	26.9	108	82-124
75-00-3	Chloroethane	25	29.4	118	62-144
67-66-3	Chloroform	25	26.8	107	80-124
110-82-7	Cyclohexane	25	27.8	111	73-138
124-48-1	Dibromochloromethane	25	26.6	106	78-122
96-12-8	1,2-Dibromo-3-chloropropane	25	20.9	84	64-123
106-93-4	1,2-Dibromoethane	25	23.9	96	75-120
75-71-8	Dichlorodifluoromethane	25	25.7	103	42-167
95-50-1	1,2-Dichlorobenzene	25	25.5	102	82-124
541-73-1	1,3-Dichlorobenzene	25	27.2	109	84-125
106-46-7	1,4-Dichlorobenzene	25	25.8	103	78-120
75-34-3	1,1-Dichloroethane	25	28.1	112	81-122
107-06-2	1,2-Dichloroethane	25	24.6	98	75-125
75-35-4	1,1-Dichloroethylene	25	29.5	118	78-137
156-59-2	cis-1,2-Dichloroethylene	25	25.0	100	78-120
156-60-5	trans-1,2-Dichloroethylene	25	29.7	119	76-127
78-87-5	1,2-Dichloropropane	25	25.2	101	76-124
10061-01-5	cis-1,3-Dichloropropene	25	26.3	105	75-118
10061-02-6	trans-1,3-Dichloropropene	25	26.3	105	80-120
100-41-4	Ethylbenzene	25	28.0	112	81-121
76-13-1	Freon 113	25	27.5	110	72-134
591-78-6	2-Hexanone	125	119	95	61-129
98-82-8	Isopropylbenzene	25	28.9	116	83-132
99-87-6	p-Isopropyltoluene	25	28.8	115	79-130
79-20-9	Methyl Acetate	125	111	89	65-126
74-83-9	Methyl Bromide	25	25.5	102	59-143
74-87-3	Methyl Chloride	25	28.3	113	50-159

* = Outside of Control Limits.

Blank Spike Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5285-BS	J0976280.D	1	05/04/16	DP	n/a	n/a	VJ5285

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

FA33606-1, FA33606-2, FA33606-3, FA33606-5, FA33606-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
108-87-2	Methylcyclohexane	25	29.0	116	76-129
75-09-2	Methylene Chloride	25	27.7	111	69-135
108-10-1	4-Methyl-2-pentanone (MIBK)	125	116	93	66-122
1634-04-4	Methyl Tert Butyl Ether	25	24.3	97	72-117
100-42-5	Styrene	25	24.2	97	78-119
75-85-4	Tert-Amyl Alcohol	250	250	100	65-124
75-65-0	Tert-Butyl Alcohol	250	242	97	63-129
79-34-5	1,1,2,2-Tetrachloroethane	25	23.3	93	72-120
127-18-4	Tetrachloroethylene	25	26.3	105	76-135
109-99-9	Tetrahydrofuran	25	22.1	88	56-122
108-88-3	Toluene	25	26.3	105	80-120
87-61-6	1,2,3-Trichlorobenzene	25	23.4	94	68-131
120-82-1	1,2,4-Trichlorobenzene	25	24.2	97	73-129
71-55-6	1,1,1-Trichloroethane	25	28.0	112	75-130
79-00-5	1,1,2-Trichloroethane	25	24.9	100	76-119
79-01-6	Trichloroethylene	25	26.7	107	81-126
75-69-4	Trichlorofluoromethane	25	31.5	126	71-156
95-63-6	1,2,4-Trimethylbenzene	25	28.3	113	79-120
75-01-4	Vinyl Chloride	25	29.4	118	69-159
	m,p-Xylene	50	53.3	107	79-126
95-47-6	o-Xylene	25	27.4	110	80-127

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

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33606-4MS	Y28303.D	1	05/03/16	AD	n/a	n/a	VY1145
FA33606-4MSD	Y28304.D	1	05/03/16	AD	n/a	n/a	VY1145
FA33606-4	Y28301.D	1	05/03/16	AD	n/a	n/a	VY1145

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

FA33606-4

CAS No.	Compound	FA33606-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	98.6		400	480	95	384	438	88	9	61-152/27
71-43-2	Benzene	ND		80	74.6	93	76.8	72.8	95	2	76-126/26
100-44-7	Benzyl Chloride	ND		80	76.7	96	76.8	66.9	87	14	65-126/31
74-97-5	Bromochloromethane	ND		80	76.1	95	76.8	73.3	95	4	77-120/24
75-27-4	Bromodichloromethane	ND		80	79.2	99	76.8	75.2	98	5	74-130/25
75-25-2	Bromoform	ND		80	84.8	106	76.8	77.1	100	10	76-127/26
78-93-3	2-Butanone (MEK)	19.8	J	400	394	94	384	350	86	12	75-137/25
75-15-0	Carbon Disulfide	ND		80	68.3	85	76.8	67.3	88	1	72-122/29
56-23-5	Carbon Tetrachloride	ND		80	73.9	92	76.8	69.5	91	6	78-133/29
108-90-7	Chlorobenzene	ND		80	78.5	98	76.8	76.4	100	3	81-129/29
75-00-3	Chloroethane	ND		80	59.0	74	76.8	67.8	88	14	68-133/29
67-66-3	Chloroform	ND		80	71.9	90	76.8	71.0	92	1	72-123/26
110-82-7	Cyclohexane	ND		80	59.3	74	76.8	56.6	74	5	73-126/32
124-48-1	Dibromochloromethane	ND		80	80.8	101	76.8	75.9	99	6	76-127/27
96-12-8	1,2-Dibromo-3-chloropropane	ND		80	75.7	95	76.8	69.2	90	9	70-137/29
106-93-4	1,2-Dibromoethane	ND		80	79.0	99	76.8	75.6	98	4	77-126/26
75-71-8	Dichlorodifluoromethane	ND		80	67.1	84	76.8	63.8	83	5	68-168/29
95-50-1	1,2-Dichlorobenzene	ND		80	81.2	101	76.8	76.3	99	6	80-129/32
541-73-1	1,3-Dichlorobenzene	ND		80	82.3	103	76.8	77.8	101	6	81-129/33
106-46-7	1,4-Dichlorobenzene	ND		80	83.0	104	76.8	78.1	102	6	76-130/32
75-34-3	1,1-Dichloroethane	ND		80	73.7	92	76.8	74.0	96	0	73-125/27
107-06-2	1,2-Dichloroethane	ND		80	79.0	99	76.8	74.9	98	5	74-128/23
75-35-4	1,1-Dichloroethylene	ND		80	68.4	85	76.8	64.2	84	6	81-136/28
156-59-2	cis-1,2-Dichloroethylene	ND		80	72.7	91	76.8	69.4	90	5	74-126/26
156-60-5	trans-1,2-Dichloroethylene	ND		80	76.9	96	76.8	75.4	98	2	70-127/27
78-87-5	1,2-Dichloropropane	ND		80	76.4	95	76.8	73.7	96	4	74-125/25
10061-01-5	cis-1,3-Dichloropropene	ND		80	80.0	100	76.8	74.9	98	7	80-123/26
10061-02-6	trans-1,3-Dichloropropene	ND		80	83.7	105	76.8	82.1	107	2	75-131/28
100-41-4	Ethylbenzene	ND		80	79.3	99	76.8	78.7	103	1	77-123/31
76-13-1	Freon 113	ND		80	57.8	72	76.8	56.4	73	2	71-129/30
591-78-6	2-Hexanone	ND		400	401	100	384	357	93	12	72-133/26
98-82-8	Isopropylbenzene	ND		80	80.9	101	76.8	79.7	104	1	80-136/32
99-87-6	p-Isopropyltoluene	ND		80	84.8	106	76.8	81.0	106	5	77-131/34
79-20-9	Methyl Acetate	ND		400	423	106	384	404	105	5	67-137/30
74-83-9	Methyl Bromide	ND		80	75.2	94	76.8	72.7	95	3	65-139/31
74-87-3	Methyl Chloride	ND		80	75.8	95	76.8	74.9	98	1	71-144/27

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33606-4MS	Y28303.D	1	05/03/16	AD	n/a	n/a	VY1145
FA33606-4MSD	Y28304.D	1	05/03/16	AD	n/a	n/a	VY1145
FA33606-4	Y28301.D	1	05/03/16	AD	n/a	n/a	VY1145

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

FA33606-4

CAS No.	Compound	FA33606-4 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
108-87-2	Methylcyclohexane	ND		80	58.0	72*	76.8	55.3	72*	5	75-128/31
75-09-2	Methylene Chloride	ND		80	74.4	93	76.8	72.4	94	3	74-137/28
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		400	408	102	384	372	97	9	76-132/26
1634-04-4	Methyl Tert Butyl Ether	ND		80	88.0	110	76.8	81.9	107	7	77-120/24
100-42-5	Styrene	ND		80	84.2	105	76.8	78.8	103	7	78-125/30
75-85-4	Tert-Amyl Alcohol	ND		800	719	90	768	744	97	3	69-130/32
75-65-0	Tert-Butyl Alcohol	ND		800	730	91	768	754	98	3	74-126/32
79-34-5	1,1,2,2-Tetrachloroethane	ND		80	78.2	98	76.8	71.0	92	10	71-126/30
127-18-4	Tetrachloroethylene	ND		80	76.8	96	76.8	76.9	100	0	79-130/31
109-99-9	Tetrahydrofuran	ND		80	81.2	101	76.8	69.1	90	16	70-133/26
108-88-3	Toluene	ND		80	76.9	96	76.8	77.4	101	1	76-124/30
87-61-6	1,2,3-Trichlorobenzene	ND		80	72.4	90	76.8	65.1	85	11	77-128/35
120-82-1	1,2,4-Trichlorobenzene	ND		80	77.3	97	76.8	70.0	91	10	78-130/34
71-55-6	1,1,1-Trichloroethane	ND		80	70.2	88	76.8	71.5	93	2	70-129/27
79-00-5	1,1,2-Trichloroethane	ND		80	77.9	97	76.8	74.7	97	4	74-124/28
79-01-6	Trichloroethylene	ND		80	72.5	91	76.8	70.3	92	3	75-128/27
75-69-4	Trichlorofluoromethane	ND		80	66.8	83	76.8	66.6	87	0	73-145/31
95-63-6	1,2,4-Trimethylbenzene	ND		80	86.2	108	76.8	83.2	108	4	74-123/34
75-01-4	Vinyl Chloride	ND		80	70.7	88	76.8	69.0	90	2	76-141/27
	m,p-Xylene	ND		160	158	99	154	156	102	1	80-128/30
95-47-6	o-Xylene	ND		80	81.9	102	76.8	80.2	104	2	80-132/30

CAS No.	Surrogate Recoveries	MS	MSD	FA33606-4	Limits
1868-53-7	Dibromofluoromethane	101%	101%	102%	75-124%
17060-07-0	1,2-Dichloroethane-D4	100%	98%	102%	72-135%
2037-26-5	Toluene-D8	99%	103%	101%	75-126%
460-00-4	4-Bromofluorobenzene	106%	103%	107%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33606-3MS	J0976287.D	1	05/04/16	DP	n/a	n/a	VJ5285
FA33606-3MSD	J0976288.D	1	05/04/16	DP	n/a	n/a	VJ5285
FA33606-3	J0976284.D	1	05/04/16	DP	n/a	n/a	VJ5285

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

FA33606-1, FA33606-2, FA33606-3, FA33606-5, FA33606-6

CAS No.	Compound	FA33606-3 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	104	83	125	111	89	7	50-147/21
71-43-2	Benzene	ND		25	25.8	103	25	25.3	101	2	81-122/14
100-44-7	Benzyl Chloride	ND		25	21.4	86	25	21.3	85	0	54-122/18
74-97-5	Bromochloromethane	ND		25	23.6	94	25	23.0	92	3	76-123/14
75-27-4	Bromodichloromethane	ND		25	25.8	103	25	24.2	97	6	79-123/19
75-25-2	Bromoform	ND		25	21.3	85	25	20.1	80	6	66-123/21
78-93-3	2-Butanone (MEK)	ND		125	107	86	125	113	90	5	56-143/18
75-15-0	Carbon Disulfide	ND		25	26.4	106	25	24.3	97	8	66-148/23
56-23-5	Carbon Tetrachloride	ND		25	30.2	121	25	27.5	110	9	76-136/23
108-90-7	Chlorobenzene	ND		25	25.4	102	25	25.2	101	1	82-124/14
75-00-3	Chloroethane	ND		25	30.0	120	25	28.7	115	4	62-144/20
67-66-3	Chloroform	ND		25	25.6	102	25	25.6	102	0	80-124/15
110-82-7	Cyclohexane	ND		25	26.1	104	25	24.7	99	6	73-138/18
124-48-1	Dibromochloromethane	ND		25	23.0	92	25	22.3	89	3	78-122/19
96-12-8	1,2-Dibromo-3-chloropropane	ND		25	18.1	72	25	19.1	76	5	64-123/18
106-93-4	1,2-Dibromoethane	ND		25	22.5	90	25	22.1	88	2	75-120/13
75-71-8	Dichlorodifluoromethane	ND		25	24.7	99	25	21.9	88	12	42-167/19
95-50-1	1,2-Dichlorobenzene	ND		25	24.4	98	25	23.8	95	2	82-124/14
541-73-1	1,3-Dichlorobenzene	ND		25	25.9	104	25	25.6	102	1	84-125/14
106-46-7	1,4-Dichlorobenzene	ND		25	25.1	100	25	25.0	100	0	78-120/15
75-34-3	1,1-Dichloroethane	ND		25	26.3	105	25	26.4	106	0	81-122/15
107-06-2	1,2-Dichloroethane	ND		25	23.1	92	25	23.2	93	0	75-125/14
75-35-4	1,1-Dichloroethylene	ND		25	26.7	107	25	26.0	104	3	78-137/18
156-59-2	cis-1,2-Dichloroethylene	ND		25	23.2	93	25	23.4	94	1	78-120/15
156-60-5	trans-1,2-Dichloroethylene	ND		25	27.3	109	25	27.4	110	0	76-127/17
78-87-5	1,2-Dichloropropane	ND		25	23.9	96	25	24.1	96	1	76-124/14
10061-01-5	cis-1,3-Dichloropropene	ND		25	22.3	89	25	22.3	89	0	75-118/23
10061-02-6	trans-1,3-Dichloropropene	ND		25	23.9	96	25	23.5	94	2	80-120/22
100-41-4	Ethylbenzene	ND		25	26.7	107	25	25.9	104	3	81-121/14
76-13-1	Freon 113	ND		25	26.3	105	25	24.4	98	7	72-134/20
591-78-6	2-Hexanone	ND		125	116	93	125	123	98	6	61-129/18
98-82-8	Isopropylbenzene	ND		25	27.7	111	25	26.6	106	4	83-132/15
99-87-6	p-Isopropyltoluene	ND		25	27.2	109	25	26.5	106	3	79-130/16
79-20-9	Methyl Acetate	ND		125	102	82	125	105	84	3	65-126/18
74-83-9	Methyl Bromide	ND		25	26.5	106	25	24.3	97	9	59-143/19
74-87-3	Methyl Chloride	ND		25	25.9	104	25	25.3	101	2	50-159/19

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA33606-3MS	J0976287.D	1	05/04/16	DP	n/a	n/a	VJ5285
FA33606-3MSD	J0976288.D	1	05/04/16	DP	n/a	n/a	VJ5285
FA33606-3	J0976284.D	1	05/04/16	DP	n/a	n/a	VJ5285

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

FA33606-1, FA33606-2, FA33606-3, FA33606-5, FA33606-6

CAS No.	Compound	FA33606-3 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	27.5	110	25	26.1	104	5	76-129/17
75-09-2	Methylene Chloride	ND		25	24.9	100	25	24.6	98	1	69-135/16
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		125	111	89	125	120	96	8	66-122/16
1634-04-4	Methyl Tert Butyl Ether	ND		25	22.1	88	25	22.5	90	2	72-117/14
100-42-5	Styrene	ND		25	21.8	87	25	21.9	88	0	78-119/23
75-85-4	Tert-Amyl Alcohol	ND		250	238	95	250	232	93	3	65-124/23
75-65-0	Tert-Butyl Alcohol	ND		250	323	129	250	315	126	3	63-129/27
79-34-5	1,1,2,2-Tetrachloroethane	ND		25	21.7	87	25	23.2	93	7	72-120/14
127-18-4	Tetrachloroethylene	ND		25	24.2	97	25	23.5	94	3	76-135/16
109-99-9	Tetrahydrofuran	ND		25	18.4	74	25	22.1	88	18	56-122/21
108-88-3	Toluene	ND		25	24.7	99	25	24.5	98	1	80-120/14
87-61-6	1,2,3-Trichlorobenzene	ND		25	20.4	82	25	21.8	87	7	68-131/25
120-82-1	1,2,4-Trichlorobenzene	ND		25	21.8	87	25	22.6	90	4	73-129/20
71-55-6	1,1,1-Trichloroethane	ND		25	26.7	107	25	25.0	100	7	75-130/16
79-00-5	1,1,2-Trichloroethane	ND		25	22.9	92	25	23.0	92	0	76-119/14
79-01-6	Trichloroethylene	ND		25	26.0	104	25	26.2	105	1	81-126/15
75-69-4	Trichlorofluoromethane	ND		25	31.7	127	25	29.3	117	8	71-156/21
95-63-6	1,2,4-Trimethylbenzene	ND		25	26.9	108	25	26.1	104	3	79-120/18
75-01-4	Vinyl Chloride	ND		25	29.3	117	25	26.7	107	9	69-159/18
	m,p-Xylene	ND		50	50.4	101	50	49.2	98	2	79-126/15
95-47-6	o-Xylene	ND		25	25.6	102	25	25.1	100	2	80-127/14

CAS No.	Surrogate Recoveries	MS	MSD	FA33606-3	Limits
1868-53-7	Dibromofluoromethane	103%	101%	104%	83-118%
17060-07-0	1,2-Dichloroethane-D4	100%	100%	99%	79-125%
2037-26-5	Toluene-D8	98%	97%	101%	85-112%
460-00-4	4-Bromofluorobenzene	98%	101%	103%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

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

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

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

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

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

Instrument Performance Check (BFB)

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5285-BFB
Lab File ID: J0976278.D
Instrument ID: GCMSJ
Injection Date: 05/04/16
Injection Time: 08:09

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	46192	17.8		Pass
75	30.0 - 60.0% of mass 95	131976	51.0		Pass
95	Base peak, 100% relative abundance	259008	100.0		Pass
96	5.0 - 9.0% of mass 95	17967	6.94		Pass
173	Less than 2.0% of mass 174	466	0.18	(0.20) [a]	Pass
174	50.0 - 100.0% of mass 95	228032	88.0		Pass
175	5.0 - 9.0% of mass 174	17090	6.60	(7.49) [a]	Pass
176	95.0 - 101.0% of mass 174	222976	86.1	(97.8) [a]	Pass
177	5.0 - 9.0% of mass 176	14689	5.67	(6.59) [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
VJ5285-CC5237	J0976279.D	05/04/16	08:45	00:36	Continuing cal 5
VJ5286-BS	J0976280.D	05/04/16	09:27	01:18	Blank Spike
VJ5285-BS	J0976280.D	05/04/16	09:27	01:18	Blank Spike
VJ5285-MB	J0976281.D	05/04/16	09:50	01:41	Method Blank
VJ5286-MB	J0976281.D	05/04/16	09:50	01:41	Method Blank
FA33606-1	J0976282.D	05/04/16	10:13	02:04	BPEB-9
FA33606-2	J0976283.D	05/04/16	10:38	02:29	BPEB-10
FA33606-3	J0976284.D	05/04/16	11:02	02:53	RA-18 GWS
FA33606-5	J0976285.D	05/04/16	11:25	03:16	TB050216
FA33606-6	J0976286.D	05/04/16	11:47	03:38	BPEB-11
FA33606-3MS	J0976287.D	05/04/16	12:10	04:01	Matrix Spike
FA33606-3MSD	J0976288.D	05/04/16	12:33	04:24	Matrix Spike Duplicate
ZZZZZZ	J0976289.D	05/04/16	12:56	04:47	(unrelated sample)
ZZZZZZ	J0976290.D	05/04/16	13:19	05:10	(unrelated sample)
ZZZZZZ	J0976291.D	05/04/16	13:41	05:32	(unrelated sample)
ZZZZZZ	J0976292.D	05/04/16	14:04	05:55	(unrelated sample)
ZZZZZZ	J0976293.D	05/04/16	14:27	06:18	(unrelated sample)
ZZZZZZ	J0976294.D	05/04/16	14:50	06:41	(unrelated sample)
FA33614-2	J0976295.D	05/04/16	15:13	07:04	(used for QC only; not part of job FA33606)
ZZZZZZ	J0976296.D	05/04/16	15:36	07:27	(unrelated sample)
ZZZZZZ	J0976297.D	05/04/16	15:58	07:49	(unrelated sample)
ZZZZZZ	J0976298.D	05/04/16	16:22	08:13	(unrelated sample)
ZZZZZZ	J0976299.D	05/04/16	16:44	08:35	(unrelated sample)
ZZZZZZ	J0976300.D	05/04/16	17:07	08:58	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5285-BFB
Lab File ID: J0976278.D
Instrument ID: GCMSJ
Injection Date: 05/04/16
Injection Time: 08:09

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
FA33614-2MS	J0976301.D	05/04/16	17:29	09:20	Matrix Spike
VJ5286-ECC5237	J0976302.D	05/04/16	17:52	09:43	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VY1133-BFB
Lab File ID: Y28091.D
Instrument ID: GCMSY
Injection Date: 04/25/16
Injection Time: 08:42

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	31414	16.2		Pass
75	30.0 - 60.0% of mass 95	89240	45.9		Pass
95	Base peak, 100% relative abundance	194368	100.0		Pass
96	5.0 - 9.0% of mass 95	13127	6.75		Pass
173	Less than 2.0% of mass 174	173	0.09	(0.14) [a]	Pass
174	50.0 - 100.0% of mass 95	126793	65.2		Pass
175	5.0 - 9.0% of mass 174	10199	5.25	(8.04) [a]	Pass
176	95.0 - 101.0% of mass 174	120513	62.0	(95.0) [a]	Pass
177	5.0 - 9.0% of mass 176	7710	3.97	(6.40) [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
VY1133-IC1133	Y28092.D	04/25/16	09:09	00:27	Initial cal 1
VY1133-IC1133	Y28093.D	04/25/16	09:35	00:53	Initial cal 2
VY1133-IC1133	Y28094.D	04/25/16	10:01	01:19	Initial cal 3
VY1133-ICC1133	Y28095.D	04/25/16	10:27	01:45	Initial cal 4
VY1133-IC1133	Y28096.D	04/25/16	10:54	02:12	Initial cal 5
VY1133-IC1133	Y28097.D	04/25/16	11:20	02:38	Initial cal 6
VY1133-IC1133	Y28098.D	04/25/16	11:47	03:05	Initial cal 7
VY1133-ICV1133	Y28100.D	04/25/16	12:40	03:58	Initial cal verification 4
VY1133-BS	Y28101.D	04/25/16	13:06	04:24	Blank Spike
VY1133-MB	Y28102.D	04/25/16	13:32	04:50	Method Blank
ZZZZZZ	Y28103.D	04/25/16	13:58	05:16	(unrelated sample)
ZZZZZZ	Y28104.D	04/25/16	14:25	05:43	(unrelated sample)
ZZZZZZ	Y28105.D	04/25/16	14:51	06:09	(unrelated sample)
ZZZZZZ	Y28106.D	04/25/16	15:17	06:35	(unrelated sample)
ZZZZZZ	Y28107.D	04/25/16	15:44	07:02	(unrelated sample)
FA33373-1	Y28108.D	04/25/16	16:10	07:28	(used for QC only; not part of job FA33606)
FA33373-1MS	Y28109.D	04/25/16	16:37	07:55	Matrix Spike
FA33373-1MSD	Y28110.D	04/25/16	17:03	08:21	Matrix Spike Duplicate
ZZZZZZ	Y28111.D	04/25/16	17:29	08:47	(unrelated sample)
ZZZZZZ	Y28112.D	04/25/16	17:55	09:13	(unrelated sample)
ZZZZZZ	Y28113.D	04/25/16	18:22	09:40	(unrelated sample)
ZZZZZZ	Y28114.D	04/25/16	18:48	10:06	(unrelated sample)
VY1133-ECC1133	Y28117.D	04/25/16	20:08	11:26	Ending cal 4

Instrument Performance Check (BFB)

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VY1144-BFB
Lab File ID: Y28293.D
Instrument ID: GCMSY
Injection Date: 05/03/16
Injection Time: 09:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	35669	16.4		Pass
75	30.0 - 60.0% of mass 95	102744	47.2		Pass
95	Base peak, 100% relative abundance	217557	100.0		Pass
96	5.0 - 9.0% of mass 95	16663	7.66		Pass
173	Less than 2.0% of mass 174	337	0.15	(0.23) [a]	Pass
174	50.0 - 100.0% of mass 95	148608	68.3		Pass
175	5.0 - 9.0% of mass 174	11263	5.18	(7.58) [a]	Pass
176	95.0 - 101.0% of mass 174	145554	66.9	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	9308	4.28	(6.39) [b]	Pass

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

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

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VY1144-CC1133	Y28294.D	05/03/16	10:09	00:26	Continuing cal 4
VY1144-BS	Y28295.D	05/03/16	10:35	00:52	Blank Spike
VY1145-BS	Y28295.D	05/03/16	10:35	00:52	Blank Spike
VY1144-MB	Y28296.D	05/03/16	11:02	01:19	Method Blank
VY1145-MB	Y28296.D	05/03/16	11:02	01:19	Method Blank
ZZZZZZ	Y28297.D	05/03/16	11:28	01:45	(unrelated sample)
ZZZZZZ	Y28298.D	05/03/16	11:54	02:11	(unrelated sample)
ZZZZZZ	Y28299.D	05/03/16	12:21	02:38	(unrelated sample)
ZZZZZZ	Y28300.D	05/03/16	12:47	03:04	(unrelated sample)
FA33606-4	Y28301.D	05/03/16	13:13	03:30	RA-18 (12.5-13.5)
FA33606-4MS	Y28303.D	05/03/16	14:06	04:23	Matrix Spike
FA33606-4MSD	Y28304.D	05/03/16	14:32	04:49	Matrix Spike Duplicate
ZZZZZZ	Y28311.D	05/03/16	17:36	07:53	(unrelated sample)
ZZZZZZ	Y28312.D	05/03/16	18:03	08:20	(unrelated sample)
ZZZZZZ	Y28314.D	05/03/16	18:55	09:12	(unrelated sample)
VY1144-ECC1133	Y28316.D	05/03/16	19:48	10:05	Ending cal 4

Volatile Internal Standard Area Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5285-CC5237	**Injection Date:**	05/04/16
Lab File ID:	J0976279.D	**Injection Time:**	08:45
Instrument ID:	GCMSJ	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1586569	7.76	1198090	10.85	683182	13.21	86536	5.30
Check Std [b]	1208724	7.76	961909	10.85	541062	13.21	72777	5.30
Upper Limit [c]	2417448	8.26	1923818	11.35	1082124	13.71	145554	5.80
Lower Limit [d]	604362	7.26	480955	10.35	270531	12.71	36389	4.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5285-BS	1232838	7.76	964016	10.85	533171	13.21	73663	5.29
VJ5286-BS [e]	1232838	7.76	964016	10.85	533171	13.21	73663	5.29
VJ5285-MB	1205723	7.76	903735	10.85	461137	13.21	62406	5.30
VJ5286-MB	1205723	7.76	903735	10.85	461137	13.21	62406	5.30
FA33606-1	1160070	7.76	880054	10.85	442978	13.21	53372	5.30
FA33606-2	1104715	7.76	829438	10.85	434531	13.21	52654	5.29
FA33606-3	1091843	7.76	821734	10.85	428352	13.21	54443	5.29
FA33606-5 [f]	1053757	7.76	806848	10.85	421579	13.21	53020	5.30
FA33606-6	1062191	7.76	817737	10.85	423402	13.21	51251	5.30
FA33606-3MS	1123865	7.76	886325	10.85	496914	13.21	62416	5.30
FA33606-3MSD	1236310	7.76	973738	10.85	530861	13.21	74435	5.30
ZZZZZZ	1154346	7.76	857119	10.85	441940	13.21	55266	5.30
ZZZZZZ	1094114	7.76	847838	10.85	432132	13.21	55552	5.29
ZZZZZZ	1085015	7.76	811969	10.85	427290	13.21	51958	5.30
ZZZZZZ	1043724	7.76	795796	10.85	424080	13.21	52582	5.29
ZZZZZZ	1050683	7.76	808430	10.85	426377	13.21	53970	5.30
ZZZZZZ	1043983	7.76	791049	10.85	421644	13.21	51694	5.29
FA33614-2	1079191	7.76	814143	10.85	410886	13.21	53040	5.29
ZZZZZZ	1070437	7.76	807421	10.85	416383	13.21	51936	5.30
ZZZZZZ	1040289	7.76	804668	10.85	416103	13.21	50798	5.30
ZZZZZZ	1040106	7.76	784688	10.85	403721	13.21	49863	5.30
ZZZZZZ	1038157	7.76	786730	10.85	405081	13.21	49816	5.30
ZZZZZZ	1023834	7.76	773940	10.85	398724	13.21	49287	5.30
FA33614-2MS	1127779	7.76	896862	10.85	503725	13.21	64459	5.30
VJ5286-ECC5237	1178939	7.76	948558	10.85	546553	13.21	70243	5.30

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

(a) Initial Cal is: VJ5237-ICC5237 J0975154.D 03/15/16 15:51
(b) Check Std Limit = -50 to +100% of initial cal area.

Volatile Internal Standard Area Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5285-CC5237	**Injection Date:**	05/04/16
Lab File ID:	J0976279.D	**Injection Time:**	08:45
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**

(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) No MSD available for this run.
(f) Sample received outside the holding time.

Volatile Internal Standard Area Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VY1144-CC1133	**Injection Date:**	05/03/16
Lab File ID:	Y28294.D	**Injection Time:**	10:09
Instrument ID:	GCMSY	**Method:**	SW846 8260C

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Initial Cal [a]	1290258	7.12	871042	10.31	421584	12.68	132224	4.63
Check Std [b]	1110842	7.12	759833	10.31	356016	12.68	109820	4.63
Upper Limit [c]	2221684	7.62	1519666	10.81	712032	13.18	219640	5.13
Lower Limit [d]	555421	6.62	379917	9.81	178008	12.18	54910	4.13

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VY1145-BS	1232396	7.12	840192	10.31	431910	12.68	134772	4.62
VY1144-BS [e]	1232396	7.12	840192	10.31	431910	12.68	134772	4.62
VY1145-MB	1116388	7.12	757764	10.31	356444	12.68	140707	4.66
VY1144-MB	1116388	7.12	757764	10.31	356444	12.68	140707	4.66
ZZZZZZ	1129855	7.12	746721	10.31	349343	12.68	114566	4.62
ZZZZZZ	1130393	7.12	735914	10.31	340138	12.68	120554	4.63
ZZZZZZ	1127644	7.12	749990	10.31	343454	12.68	110777	4.63
ZZZZZZ	1121388	7.12	742170	10.31	339519	12.68	123214	4.62
FA33606-4	1075506	7.12	678399	10.31	277413	12.68	114557	4.62
FA33606-4MS	1110556	7.12	760205	10.31	347818	12.68	126286	4.64
FA33606-4MSD	1077907	7.12	701608	10.31	327940	12.68	101971	4.62
ZZZZZZ	1110385	7.12	665616	10.31	232685	12.68	99040	4.63
ZZZZZZ	1144411	7.12	757581	10.31	415690	12.68	126523	4.65
ZZZZZZ	1116332	7.12	710736	10.31	281296	12.68	113417	4.63
VY1144-ECC11331	1116125	7.12	734892	10.31	344211	12.68	108473	4.63

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

(a) Initial Cal is: VY1133-ICC1133 Y28095.D 04/25/16 10:27
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) No sample available for MS/MSD.

Volatile Surrogate Recovery Summary

Job Number: FA33606
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
FA33606-1	J0976282.D	102	98	101	105
FA33606-2	J0976283.D	104	98	101	105
FA33606-3	J0976284.D	104	99	101	103
FA33606-5	J0976285.D	101	98	101	104
FA33606-6	J0976286.D	104	98	100	104
FA33606-3MS	J0976287.D	103	100	98	98
FA33606-3MSD	J0976288.D	101	100	97	101
VJ5285-BS	J0976280.D	103	99	98	102
VJ5285-MB	J0976281.D	100	97	102	106

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

Volatile Surrogate Recovery Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FA33606-4	Y28301.D	102	102	101	107
FA33606-4MS	Y28303.D	101	100	99	106
FA33606-4MSD	Y28304.D	101	98	103	103
VY1145-BS	Y28295.D	101	98	97	100
VY1145-MB	Y28296.D	100	105	98	109

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

Initial Calibration Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5237-ICC5237
Lab FileID: J0975154.D

Response Factor Report MSVOA6

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

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

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

Initial Calibration Summary

Job Number: FA33606 **Sample:** VJ5237-ICC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975154.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

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

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

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


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

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

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

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

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

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

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

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

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

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

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

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

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

Initial Calibration Summary

Job Number: FA33606 **Sample:** VJ5237-ICC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975154.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

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

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

6.7.1

6

Initial Calibration Verification

Job Number: FA33606 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

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

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

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

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

Initial Calibration Verification

Job Number: FA33606 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

Initial Calibration Verification

Job Number: FA33606 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975158.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

Initial Calibration Verification

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5237-ICV5237
Lab FileID: J0975158.D

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

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

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

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

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

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

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

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

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

6.7.2

6

Initial Calibration Verification

Job Number: FA33606 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

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

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

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

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

Initial Calibration Verification

Job Number: FA33606 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

Initial Calibration Verification

Job Number: FA33606 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

Initial Calibration Verification

Job Number: FA33606 **Sample:** VJ5237-ICV5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0975159.D
Project: BMSMC, Building 5 Area, Humacao, PR

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

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

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

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

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

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

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

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

6.7.3

6

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VJ5285-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976279.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\050416\J0976279.D          Vial: 1
Acq On    :  4 May 2016   8:45 am                     Operator: darshnap
Sample    : cc5237-5                                  Inst    : MSVOA6
Misc      : MS33770,VJ5285,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	76	0.00	7.76
2		Dichlorodifluoromethane	0.308	0.293	4.9	68	0.00	2.69
3	P	Chloromethane	0.329	0.331	-0.6	75	0.00	2.90
4	C	Vinyl Chloride	0.337	0.372	-10.4	81	0.00	3.04
5		1,3-Butadiene	0.251	0.261	-4.0	80	0.01	3.05
		----------	Amount	Calc.	%Drift		----------	
6		Bromomethane	40.000	39.701	0.7	78	0.00	3.46
7		Chloroethane	40.000	44.001	-10.0	85	0.00	3.62
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.419	0.501	-19.6	86	0.00	3.84
9		Ethyl Ether	0.193	0.201	-4.1	76	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.291	0.312	-7.2	80	0.00	4.35
11	C	1,1-Dichloroethene	0.362	0.382	-5.5	80	0.00	4.40
12		Freon 113	0.250	0.265	-6.0	79	0.00	4.46
13		Carbon Disulfide	0.754	0.828	-9.8	82	0.00	4.48
14		Iodomethane	0.400	0.428	-7.0	80	0.00	4.59
15		Allyl chloride	0.335	0.349	-4.2	79	0.00	4.92
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	44.007	-10.0	82	0.00	5.04
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.015	0.016	-6.7	86	0.00	5.07
18		Methyl acetate	0.029	0.029	0.0	73	0.00	5.19
19		trans-1,2-Dichloroethene	0.332	0.351	-5.7	78	0.00	5.22
20		Hexane	0.213	0.231	-8.5	80	0.00	5.30
21		Methyl Tert Butyl Ether	0.663	0.675	-1.8	75	0.00	5.34
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	428.479	-7.1	88	0.00	5.59
		----------	AvgRF	CCRF	%Dev		----------	
23		Di-isopropyl ether	0.759	0.800	-5.4	77	0.00	5.72
24		Chloroprene	0.357	0.372	-4.2	77	0.00	5.87
25	P	1,1-Dichloroethane	0.444	0.473	-6.5	80	0.00	5.90
26		Acrylonitrile	0.066	0.061	7.6	73	0.00	5.92
27		ETBE	0.760	0.813	-7.0	76	0.00	6.11
28		Vinyl acetate	0.384	0.385	-0.3	74	0.00	6.11
29		cis-1,2-Dichloroethene	0.285	0.292	-2.5	75	0.00	6.47
30		2,2-Dichloropropane	0.346	0.392	-13.3	84	0.00	6.61

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VJ5285-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976279.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.129	0.136	-5.4	77	0.00	6.68
32		Cyclohexane	0.417	0.446	-7.0	79	0.00	6.73
33	C	Chloroform	0.493	0.519	-5.3	78	0.00	6.74
34		Ethyl acetate	0.154	0.142	7.8	71	0.00	6.81
			Amount	Calc.	%Drift			
35		Tetrahydrofuran	40.000	34.647	13.4	67	0.00	6.92
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.254	0.263	-3.5	78	0.00	6.92
37		Carbon Tetrachloride	0.343	0.388	-13.1	82	0.00	6.93
38		1,1,1-Trichloroethane	0.421	0.457	-8.6	80	0.00	7.00
			Amount	Calc.	%Drift			
39		2-Butanone	200.000	197.368	1.3	76	0.00	7.02
			AvgRF	CCRF	%Dev			
40		1,1-Dichloropropene	0.340	0.357	-5.0	78	0.00	7.10
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	410.209	-2.6	79	0.00	7.18
			AvgRF	CCRF	%Dev			
42		Propionitrile	0.023	0.021	8.7	75	0.00	7.33
43		Methacrylonitrile	0.107	0.098	8.4	75	0.00	7.36
44		Benzene	1.036	1.104	-6.6	79	0.00	7.35
45		TAME	0.686	0.702	-2.3	74	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.307	0.304	1.0	76	0.00	7.48
47		1,2-Dichloroethane	0.363	0.365	-0.6	77	0.00	7.55
48		Trichloroethene	0.268	0.275	-2.6	77	0.00	7.93
49		Methylcyclohexane	0.451	0.477	-5.8	77	0.00	7.96
50		Dibromomethane	0.150	0.150	0.0	73	0.00	8.36
51	C	1,2-Dichloropropane	0.260	0.269	-3.5	76	0.00	8.45
52		Bromodichloromethane	0.334	0.364	-9.0	79	0.00	8.49
53		Methyl methacrylate	0.138	0.132	4.3	70	0.00	8.59
54		2-Chloroethyl vinyl ether	0.132	0.137	-3.8	77	0.00	9.01
			Amount	Calc.	%Drift			
55		cis-1,3-Dichloropropene	40.000	42.537	-6.3	80	0.00	9.11
			AvgRF	CCRF	%Dev			
56	I	Chlorobenzene-d5	1.000	1.000	0.0	80	0.00	10.85
57	S	Toluene-d8	1.315	1.271	3.3	78	0.00	9.30
58	C	Toluene	1.448	1.430	1.2	78	0.00	9.36
			Amount	Calc.	%Drift			
59		2-Nitropropane	200.000	190.502	4.7	74	0.00	9.56
			AvgRF	CCRF	%Dev			
60		4-Methyl-2-pentanone	0.207	0.203	1.9	77	0.00	9.67
			Amount	Calc.	%Drift			
61		trans-1,3-Dichloropropene	40.000	39.842	0.4	78	0.00	9.73
			AvgRF	CCRF	%Dev			
62		Tetrachloroethene	0.387	0.358	7.5	71	0.00	9.76
63		Ethyl methacrylate	0.331	0.311	6.0	71	0.00	9.84
64		1,1,2-Trichloroethane	0.236	0.233	1.3	76	0.00	9.90
65		Dibromochloromethane	0.300	0.322	-7.3	80	0.00	10.10

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VJ5285-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976279.D
Project: BMSMC, Building 5 Area, Humacao, PR

66		1,3-Dichloropropane	0.483	0.467	3.3	74	0.00	10.18
67		1,2-Dibromoethane	0.268	0.261	2.6	74	0.00	10.36
68		2-hexanone	0.137	0.140	-2.2	78	0.00	10.49
69		1-Chlorohexane	0.425	0.447	-5.2	79	0.00	10.80
70	C	Ethylbenzene	1.651	1.737	-5.2	82	0.00	10.86
71	P	Chlorobenzene	0.963	0.999	-3.7	81	0.00	10.86
72		1,1,1,2-Tetrachloroethane	0.313	0.341	-8.9	82	0.00	10.91
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	83.531	-4.4	82	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.276	1.330	-4.2	78	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	40.526	-1.3	80	0.00	11.48
76	P	Bromoform	40.000	41.580	-3.9	83	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.474	1.579	-7.1	79	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	79	0.00	13.21
79	S	4-Bromofluorobenzene	0.904	0.889	1.7	78	0.00	12.06
80		cis-1,4-Dichloro-2-butene	0.162	0.157	3.1	76	0.00	12.09
81		n-Propylbenzene	3.173	3.433	-8.2	81	0.00	12.16
82		Bromobenzene	0.747	0.784	-5.0	81	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.603	0.581	3.6	74	0.00	12.22
84		1,3,5-Trimethylbenzene	2.401	2.665	-11.0	81	0.00	12.34
85		2-Chlorotoluene	2.329	2.489	-6.9	82	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	39.299	1.8	78	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.154	0.155	-0.6	76	0.00	12.39
88		Cyclohexanone	0.010	0.014	-40.0#	115	0.00	12.45
89		4-Chlorotoluene	2.085	2.257	-8.2	81	0.00	12.52
90		a-Methyl Styrene	0.686	1.341	-95.5#	148	0.00	12.61
91		tert-Butylbenzene	1.403	1.475	-5.1	79	0.00	12.68
92		1,2,4-Trimethylbenzene	2.398	2.614	-9.0	80	0.00	12.75
		----------	Amount	Calc.	%Drift	----------		
93		Pentachloroethane	40.000	43.562	-8.9	94	0.00	12.74
		----------	AvgRF	CCRF	%Dev	----------		
94		sec-Butylbenzene	2.899	3.071	-5.9	79	0.00	12.87
95		4-Isopropyltoluene	2.432	2.633	-8.3	80	0.00	13.00
96		1,3-Dichlorobenzene	1.325	1.368	-3.2	80	0.00	13.14
97		1,4-Dichlorobenzene	1.406	1.444	-2.7	81	0.00	13.22
98		n-Butylbenzene	1.402	1.509	-7.6	79	0.00	13.43
		----------	Amount	Calc.	%Drift	----------		
99		Benzyl Chloride	40.000	43.235	-8.1	82	0.00	13.45
		----------	AvgRF	CCRF	%Dev	----------		
100		1,2-Dichlorobenzene	1.268	1.275	-0.6	77	0.00	13.64
		----------	Amount	Calc.	%Drift	----------		
101		1,2-Dibromo-3-Chloropropa	40.000	34.624	13.4	66	0.00	14.38

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VJ5285-CC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976279.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.566	0.584	-3.2	78	0.00	14.93
103	1,2,4-Trichlorobenzene	0.926	0.897	3.1	71	0.00	14.98

		Amount	Calc.	%Drift			
104	Naphthalene	40.000	31.554	21.1#	60	0.00	15.26

		AvgRF	CCRF	%Dev			
105	1,2,3-Trichlorobenzene	0.820	0.737	10.1	67	0.00	15.43
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	84	0.00	5.30

		Amount	Calc.	%Drift			
107	Ethanol	800.000	994.556	-24.3#	107	0.00	4.28

		AvgRF	CCRF	%Dev			
108	acrolein	2.923	2.564	12.3	72	0.00	4.76
109	Tert Butyl Alcohol	1.212	1.196	1.3	81	0.00	5.37
110	tert Amyl alcohol	0.850	0.881	-3.6	80	0.00	7.57

		Amount	Calc.	%Drift			
111	Isobutyl alcohol	800.000	765.233	4.3	83	0.00	7.45

		AvgRF	CCRF	%Dev			
112	1,4-Dioxane	0.099	0.131	-32.3#	108	0.00	8.67
113	3,3-Dimethyl-1-butanol	1.041	0.987	5.2	75	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0975154.D MSJ031516.M Wed May 04 12:54:35 2016

6.7.4

6

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VJ5286-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976302.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\2\data\050416\J0976302.D          Vial: 21
Acq On    :  4 May 2016   5:52 pm                     Operator: darshnap
Sample    : ecc5237-5                                 Inst    : MSVOA6
Misc      : MS33770,VJ5286,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

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

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	74	0.00	7.76
2		Dichlorodifluoromethane	0.308	0.319	-3.6	72	0.01	2.70
3	P	Chloromethane	0.329	0.350	-6.4	78	0.00	2.90
4	C	Vinyl Chloride	0.337	0.393	-16.6	83	0.00	3.05
5		1,3-Butadiene	0.251	0.302	-20.3	90	0.00	3.04
		----------	Amount	Calc.	%Drift		----------	
6		Bromomethane	40.000	39.207	2.0	75	0.00	3.46
7		Chloroethane	40.000	43.095	-7.7	81	0.00	3.62
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.419	0.514	-22.7	86	0.00	3.84
9		Ethyl Ether	0.193	0.197	-2.1	73	0.00	4.12
10		1,2-Dichlorotrifluoroetha	0.291	0.311	-6.9	77	0.00	4.35
11	C	1,1-Dichloroethene	0.362	0.388	-7.2	79	0.00	4.40
12		Freon 113	0.250	0.272	-8.8	79	0.00	4.46
13		Carbon Disulfide	0.754	0.832	-10.3	80	0.00	4.48
14		Iodomethane	0.400	0.410	-2.5	74	0.00	4.59
15		Allyl chloride	0.335	0.361	-7.8	80	0.00	4.92
		----------	Amount	Calc.	%Drift		----------	
16		Methylene Chloride	40.000	41.726	-4.3	76	0.00	5.04
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.015	0.016	-6.7	85	0.00	5.07
18		Methyl acetate	0.029	0.029	0.0	70	0.00	5.19
19		trans-1,2-Dichloroethene	0.332	0.347	-4.5	75	0.00	5.23
20		Hexane	0.213	0.236	-10.8	80	0.00	5.30
21		Methyl Tert Butyl Ether	0.663	0.657	0.9	71	0.00	5.33
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	433.428	-8.4	87	0.01	5.60
		----------	AvgRF	CCRF	%Dev		----------	
23		Di-isopropyl ether	0.759	0.775	-2.1	72	0.00	5.72
24		Chloroprene	0.357	0.396	-10.9	80	0.00	5.87
25	P	1,1-Dichloroethane	0.444	0.461	-3.8	76	0.00	5.90
26		Acrylonitrile	0.066	0.063	4.5	74	0.00	5.92
27		ETBE	0.760	0.793	-4.3	72	0.00	6.12
28		Vinyl acetate	0.384	0.384	0.0	72	0.00	6.11
29		cis-1,2-Dichloroethene	0.285	0.289	-1.4	73	0.00	6.47
30		2,2-Dichloropropane	0.346	0.372	-7.5	78	0.00	6.61

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VJ5286-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976302.D
Project: BMSMC, Building 5 Area, Humacao, PR

31		Bromochloromethane	0.129	0.131	-1.6	72	0.00	6.68
32		Cyclohexane	0.417	0.454	-8.9	78	0.00	6.73
33	C	Chloroform	0.493	0.503	-2.0	74	0.00	6.74
34		Ethyl acetate	0.154	0.146	5.2	71	0.00	6.81
		----------	Amount	Calc.	%Drift	----------		
35		Tetrahydrofuran	40.000	34.117	14.7	64	0.00	6.92
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.254	0.259	-2.0	75	0.00	6.93
37		Carbon Tetrachloride	0.343	0.391	-14.0	80	0.00	6.93
38		1,1,1-Trichloroethane	0.421	0.453	-7.6	77	0.00	7.00
		----------	Amount	Calc.	%Drift	----------		
39		2-Butanone	200.000	207.883	-3.9	78	0.00	7.03
		----------	AvgRF	CCRF	%Dev	----------		
40		1,1-Dichloropropene	0.340	0.356	-4.7	76	0.00	7.10
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	413.155	-3.3	77	0.00	7.19
		----------	AvgRF	CCRF	%Dev	----------		
42		Propionitrile	0.023	0.022	4.3	74	0.00	7.34
43		Methacrylonitrile	0.107	0.099	7.5	74	0.00	7.36
44		Benzene	1.036	1.103	-6.5	77	0.00	7.36
45		TAME	0.686	0.695	-1.3	71	0.00	7.43
46	S	1,2-Dichloroethane-d4	0.307	0.302	1.6	74	0.00	7.48
47		1,2-Dichloroethane	0.363	0.352	3.0	72	0.00	7.55
48		Trichloroethene	0.268	0.279	-4.1	76	0.00	7.94
49		Methylcyclohexane	0.451	0.500	-10.9	79	0.00	7.96
50		Dibromomethane	0.150	0.147	2.0	70	0.00	8.36
51	C	1,2-Dichloropropane	0.260	0.264	-1.5	73	0.00	8.45
52		Bromodichloromethane	0.334	0.356	-6.6	75	0.00	8.50
53		Methyl methacrylate	0.138	0.135	2.2	70	0.00	8.60
54		2-Chloroethyl vinyl ether	0.132	0.129	2.3	70	0.00	9.01
		----------	Amount	Calc.	%Drift	----------		
55		cis-1,3-Dichloropropene	40.000	41.222	-3.1	75	0.00	9.11
		----------	AvgRF	CCRF	%Dev	----------		
56	I	Chlorobenzene-d5	1.000	1.000	0.0	79	0.00	10.85
57	S	Toluene-d8	1.315	1.258	4.3	77	0.00	9.30
58	C	Toluene	1.448	1.432	1.1	77	0.00	9.36
		----------	Amount	Calc.	%Drift	----------		
59		2-Nitropropane	200.000	188.520	5.7	72	0.00	9.56
		----------	AvgRF	CCRF	%Dev	----------		
60		4-Methyl-2-pentanone	0.207	0.221	-6.8	82	0.00	9.67
		----------	Amount	Calc.	%Drift	----------		
61		trans-1,3-Dichloropropene	40.000	39.097	2.3	75	0.00	9.74
		----------	AvgRF	CCRF	%Dev	----------		
62		Tetrachloroethene	0.387	0.358	7.5	71	0.00	9.76
63		Ethyl methacrylate	0.331	0.314	5.1	70	0.00	9.84
64		1,1,2-Trichloroethane	0.236	0.227	3.8	73	0.00	9.90
65		Dibromochloromethane	0.300	0.311	-3.7	76	0.00	10.10

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VJ5286-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976302.D
Project: BMSMC, Building 5 Area, Humacao, PR

66		1,3-Dichloropropane	0.483	0.456	5.6	71	0.00	10.18
67		1,2-Dibromoethane	0.268	0.253	5.6	71	0.00	10.37
68		2-hexanone	0.137	0.153	-11.7	84	0.00	10.49
69		1-Chlorohexane	0.425	0.450	-5.9	78	0.00	10.80
70	C	Ethylbenzene	1.651	1.758	-6.5	81	0.00	10.86
71	P	Chlorobenzene	0.963	0.996	-3.4	79	0.00	10.86
72		1,1,1,2-Tetrachloroethane	0.313	0.326	-4.2	77	0.00	10.91
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	84.525	-5.7	82	0.00	11.00
		----------	AvgRF	CCRF	%Dev	----------		
74		o-Xylene	1.276	1.322	-3.6	77	0.00	11.44
		----------	Amount	Calc.	%Drift	----------		
75		Styrene	40.000	40.518	-1.3	79	0.00	11.48
76	P	Bromoform	40.000	40.157	-0.4	79	0.00	11.55
		----------	AvgRF	CCRF	%Dev	----------		
77		Isopropylbenzene	1.474	1.605	-8.9	80	0.00	11.74
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	80	0.00	13.21
79	S	4-Bromofluorobenzene	0.904	0.871	3.7	77	0.00	12.06
80		cis-1,4-Dichloro-2-butene	0.162	0.150	7.4	72	0.00	12.09
81		n-Propylbenzene	3.173	3.445	-8.6	82	0.00	12.16
82		Bromobenzene	0.747	0.754	-0.9	78	0.00	12.18
83	P	1,1,2,2-Tetrachloroethane	0.603	0.586	2.8	75	0.00	12.22
84		1,3,5-Trimethylbenzene	2.401	2.648	-10.3	81	0.00	12.34
85		2-Chlorotoluene	2.329	2.491	-7.0	83	0.00	12.35
		----------	Amount	Calc.	%Drift	----------		
86		trans-1,4-Dichloro-2-Bute	40.000	37.285	6.8	75	0.00	12.40
		----------	AvgRF	CCRF	%Dev	----------		
87		1,2,3-Trichloropropane	0.154	0.148	3.9	74	0.00	12.39
88		Cyclohexanone	0.010	0.014	-40.0	118	0.00	12.45
89		4-Chlorotoluene	2.085	2.196	-5.3	80	0.00	12.52
90		a-Methyl Styrene	0.686	1.379	-101.0#	154	0.00	12.60
91		tert-Butylbenzene	1.403	1.489	-6.1	81	0.00	12.68
92		1,2,4-Trimethylbenzene	2.398	2.610	-8.8	80	0.00	12.75
		----------	Amount	Calc.	%Drift	----------		
93		Pentachloroethane	40.000	42.679	-6.7	93	0.00	12.74
		----------	AvgRF	CCRF	%Dev	----------		
94		sec-Butylbenzene	2.899	3.159	-9.0	82	0.00	12.87
95		4-Isopropyltoluene	2.432	2.686	-10.4	82	0.00	13.00
96		1,3-Dichlorobenzene	1.325	1.337	-0.9	79	0.00	13.13
97		1,4-Dichlorobenzene	1.406	1.398	0.6	79	0.00	13.22
98		n-Butylbenzene	1.402	1.509	-7.6	80	0.00	13.43
		----------	Amount	Calc.	%Drift	----------		
99		Benzyl Chloride	40.000	40.220	-0.5	77	0.00	13.45
		----------	AvgRF	CCRF	%Dev	----------		
100		1,2-Dichlorobenzene	1.268	1.241	2.1	76	0.00	13.64
		----------	Amount	Calc.	%Drift	----------		
101		1,2-Dibromo-3-Chloropropa	40.000	33.858	15.4	65	0.00	14.38

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VJ5286-ECC5237
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0976302.D
Project: BMSMC, Building 5 Area, Humacao, PR

		AvgRF	CCRF	%Dev			
102	Hexachlorobutadiene	0.566	0.581	-2.7	78	0.00	14.93
103	1,2,4-Trichlorobenzene	0.926	0.868	6.3	69	0.00	14.97

		Amount	Calc.	%Drift			
104	Naphthalene	40.000	31.699	20.8	61	0.00	15.26

		AvgRF	CCRF	%Dev			
105	1,2,3-Trichlorobenzene	0.820	0.728	11.2	67	0.00	15.43
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	81	0.00	5.30

		Amount	Calc.	%Drift			
107	Ethanol	800.000	998.521	-24.8	104	0.00	4.28

		AvgRF	CCRF	%Dev			
108	acrolein	2.923	2.748	6.0	75	0.00	4.76
109	Tert Butyl Alcohol	1.212	1.265	-4.4	83	0.00	5.38
110	tert Amyl alcohol	0.850	0.971	-14.2	85	0.00	7.57

		Amount	Calc.	%Drift			
111	Isobutyl alcohol	800.000	778.047	2.7	82	0.00	7.45

		AvgRF	CCRF	%Dev			
112	1,4-Dioxane	0.099	0.136	-37.4	108	0.00	8.67
113	3,3-Dimethyl-1-butanol	1.041	1.088	-4.5	80	0.00	10.43

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0975154.D MSJ031516.M Thu May 05 08:30:58 2016

6.7.5
6

Initial Calibration Summary

Job Number: FA33606 **Sample:** VY1133-ICC1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28095.D
Project: BMSMC, Building 5 Area, Humacao, PR

Response Factor Report MSVOA14

Method : C:\msdchem\1\METHODS\042516APP9-Y.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Calibration Files
1 =Y28092.D 2 =Y28093.D 3 =Y28094.D 4 =Y28095.D
5 =Y28096.D 6 =Y28097.D 7 =Y28098.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.422	0.435	0.442	0.449	0.394	0.394	0.413	0.421	5.22
3)P Chloromethane	0.501	0.503	0.509	0.501	0.456	0.427	0.417	0.473	8.29
4)C Vinyl Chloride	0.503	0.491	0.510	0.501	0.456	0.437	0.439	0.477	6.63
5) Bromomethane	0.236	0.262	0.245	0.234	0.213	0.197	0.194	0.226	11.29
6) Chloroethane	0.267	0.267	0.262	0.250	0.191			0.248	12.99
7) Trichlorofluorome	0.460	0.469	0.461	0.481	0.422	0.399	0.398	0.442	7.85
8) Ethyl Ether	0.212	0.258	0.246	0.235	0.223	0.226	0.214	0.231	7.33
9) 1,2-Dichlorotrifl	0.438	0.416	0.395	0.406	0.370	0.354	0.346	0.389	8.71
10)C 1,1-Dichloroethen	0.526	0.538	0.558	0.556	0.515	0.507	0.502	0.529	4.27
11) Freon 113	0.337	0.336	0.338	0.358	0.305	0.298	0.300	0.325	7.20
12) Carbon Disulfide	1.127	1.150	1.141	1.148	1.022	0.962	0.934	1.069	8.82
13) Iodomethane	0.464	0.494	0.492	0.486	0.455	0.444	0.436	0.467	5.07
14) Allyl chloride	0.472	0.488	0.473	0.465	0.433	0.416	0.401	0.450	7.35
15) Methylene Chlorid	0.657	0.559	0.498	0.424	0.365	0.357	0.341	0.457	26.04
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9987									
Response Ratio = 0.00000 + 0.42267 *A + -0.02107 *A^2									
16) Acetone	0.077	0.086	0.075	0.072	0.066	0.065	0.060	0.072	12.41
17) Methyl acetate	0.158	0.169	0.164	0.158	0.140	0.140	0.126	0.151	10.30
18) trans-1,2-Dichlor	0.405	0.423	0.429	0.422	0.389	0.373	0.368	0.401	6.24
19) Hexane	0.304	0.281	0.256	0.283	0.226	0.225	0.230	0.258	12.45
20) Methyl Tert Butyl	0.719	0.775	0.709	0.730	0.666	0.693	0.645	0.705	6.12
21) Acetonitrile	0.028	0.027	0.027	0.027	0.023	0.023	0.022	0.025	9.65
22) Di-isopropyl ethe	0.878	0.941	0.865	0.879	0.810	0.829	0.764	0.852	6.68
23) Chloroprene	0.499	0.495	0.516	0.533	0.474	0.463	0.446	0.489	6.28
24)P 1,1-Dichloroethan	0.568	0.567	0.581	0.614	0.521	0.519	0.481	0.550	8.19
25) Acrylonitrile	0.082	0.088	0.088	0.095	0.081	0.084	0.075	0.085	7.72
26) ETBE	0.822	0.974	0.836	0.895	0.820	0.827	0.767	0.849	7.86
27) Vinyl acetate	0.460	0.486	0.457	0.450	0.409	0.365	0.332	0.423	13.29
28) cis-1,2-Dichloroe	0.342	0.371	0.360	0.363	0.347	0.336	0.327	0.349	4.58
29) 2,2-Dichloropropa	0.216	0.253	0.241	0.224	0.195	0.184	0.175	0.212	13.75
30) Bromochloromethan	0.127	0.150	0.147	0.151	0.148	0.144	0.140	0.144	5.65
31) Cyclohexane	0.552	0.534	0.565	0.602	0.551	0.531	0.545	0.554	4.27
32)C Chloroform	0.574	0.615	0.587	0.595	0.555	0.527	0.515	0.567	6.41
33) Ethyl acetate	0.206	0.207	0.213	0.198	0.184	0.178	0.171	0.194	8.33
34) Tetrahydrofuran	0.096	0.069	0.071	0.068	0.063	0.065	0.063	0.071	16.17
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995									
Response Ratio = 0.00000 + 0.06705 *A + -0.00095 *A^2									
35)S Dibromofluorometh	0.222	0.235	0.224	0.231	0.229	0.230	0.231	0.229	1.93
36) Carbon Tetrachlor	0.319	0.346	0.341	0.352	0.335	0.327	0.339	0.337	3.34
37) 1,1,1-Trichloroet	0.407	0.448	0.435	0.436	0.398	0.375	0.368	0.410	7.64
38) 2-Butanone	0.117	0.112	0.116	0.109	0.100	0.100	0.095	0.107	8.11
39) 1,1-Dichloroprope	0.439	0.438	0.433	0.461	0.422	0.407	0.412	0.430	4.29
40) Propionitrile	0.033	0.035	0.038	0.036	0.033	0.033	0.031	0.034	6.74

Initial Calibration Summary

Job Number: FA33606 **Sample:** VY1133-ICC1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28095.D
Project: BMSMC, Building 5 Area, Humacao, PR

41)	Methacrylonitrile	0.132	0.129	0.134	0.129	0.119	0.110	0.104	0.123	9.67
42)	Benzene	1.304	1.384	1.306	1.329	1.200	1.103	1.048	1.239	10.13
43)	TAME	0.825	0.837	0.770	0.821	0.783	0.800	0.720	0.794	5.07
44)S	1,2-Dichloroethan	0.259	0.257	0.247	0.235	0.232	0.227	0.237	0.242	5.16
45)	1,2-Dichloroethan	0.349	0.385	0.362	0.347	0.325	0.322	0.311	0.343	7.45
46)	Trichloroethene	0.362	0.339	0.333	0.341	0.314	0.296	0.295	0.326	7.66
47)	Methylcyclohexane	0.605	0.560	0.574	0.634	0.570	0.551	0.573	0.581	4.92
48)	Dibromomethane	0.154	0.170	0.158	0.156	0.149	0.149	0.147	0.155	5.11
49)C	1,2-Dichloropropa	0.319	0.324	0.325	0.310	0.303	0.299	0.292	0.310	4.17
50)	Bromodichlorometh	0.362	0.359	0.363	0.358	0.351	0.348	0.339	0.354	2.46
51)	Methyl methacryla	0.194	0.148	0.180	0.160	0.170	0.174	0.176	0.172	8.61
52)	2-Chloroethyl vin	0.143	0.126	0.151	0.142	0.146	0.138	0.133	0.140	5.80
53)	cis-1,3-Dichlorop	0.458	0.451	0.477	0.468	0.452	0.441	0.432	0.454	3.34
54) I	Chlorobenzene-d5	----------ISTD----------								
55)S	Toluene-d8	1.413	1.390	1.410	1.399	1.425	1.398	1.426	1.409	0.97
56)C	Toluene	1.999	1.984	1.980	1.931	1.757	1.595	1.511	1.823	11.14
57)	2-Nitropropane	0.076	0.065	0.078	0.071	0.070	0.070	0.069	0.071	6.12
58)	4-Methyl-2-pentan	0.332	0.295	0.335	0.300	0.278	0.263	0.248	0.293	11.25
59)	trans-1,3-Dichlor	0.513	0.489	0.532	0.533	0.513	0.507		0.514	3.18
60)	Tetrachloroethene	0.397	0.415	0.410	0.436	0.386	0.356	0.373	0.396	6.82
61)	Ethyl methacrylat	0.472	0.371	0.450	0.431	0.444	0.448	0.444	0.437	7.20
62)	1,1,2-Trichloroet	0.302	0.302	0.308	0.291	0.273	0.269	0.264	0.287	6.28
63)	Dibromochlorometh	0.338	0.332	0.346	0.339	0.338	0.339	0.336	0.338	1.25
64)	1,3-Dichloropropa	0.621	0.598	0.631	0.599	0.584	0.572	0.558	0.595	4.37
65)	1,2-Dibromoethane	0.311	0.329	0.332	0.307	0.309	0.307	0.301	0.314	3.80
66)	2-hexanone	0.247	0.181	0.236	0.206	0.198	0.191	0.184	0.206	12.48
67)	1-Chlorohexane	0.600	0.480	0.572	0.615	0.563	0.534	0.561	0.561	7.95
68)C	Ethylbenzene	2.026	2.042	2.023	2.042	1.836	1.614	1.523	1.872	11.83
69)P	Chlorobenzene	1.122	1.243	1.173	1.172	1.068	0.990	0.963	1.104	9.31
70)	1,1,1,2-Tetrachlo	0.350	0.390	0.369	0.379	0.366	0.358	0.354	0.366	3.88
71)	m,p-Xylene	1.506	1.478	1.511	1.497	1.275	1.081	0.981	1.333	16.77
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985									
	Response Ratio = 0.00000 + 1.56197 *A + -0.07417 *A^2									
72)	o-Xylene	1.563	1.439	1.557	1.558	1.458	1.340	1.281	1.456	7.75
73)	Styrene	1.018	0.990	1.113	1.158	1.106	1.044	1.016	1.063	5.85
74)P	Bromoform	0.155	0.178	0.165	0.174	0.178	0.185	0.185	0.174	6.25
75)	Isopropylbenzene	1.873	1.762	1.879	1.970	1.749	1.573	1.498	1.758	9.70
76) I	1,4-Dichlorobenzene-d	----------ISTD----------								
77)S	4-Bromofluorobenz	0.722	0.670	0.710	0.658	0.688	0.681	0.691	0.689	3.21
78)	cis-1,4-Dichloro-	0.265	0.239	0.292	0.252	0.254	0.247	0.240	0.256	7.23
79)	n-Propylbenzene	4.851	4.581	4.781	4.713	4.080	3.455	3.220	4.240	15.79
	---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9979									
	Response Ratio = 0.00000 + 4.87256 *A + -0.42529 *A^2									
80)	Bromobenzene	0.880	0.954	0.928	0.903	0.851	0.805	0.787	0.873	7.12
81)P	1,1,2,2-Tetrachlo	0.988	0.970	1.036	0.923	0.871	0.842	0.799	0.919	9.30
82)	1,3,5-Trimethylbe	3.522	3.390	3.608	3.673	3.243	2.866	2.693	3.285	11.46
83)	2-Chlorotoluene	3.311	3.250	3.346	3.267	2.973	2.674	2.538	3.051	10.81
84)	trans-1,4-Dichlor	0.270	0.251	0.270	0.226	0.231	0.225	0.219	0.242	9.04
85)	1,2,3-Trichloropr	0.290	0.261	0.293	0.232	0.247	0.235	0.223	0.254	11.00
86)	Cyclohexanone	0.053	0.041	0.048	0.041	0.039	0.039	0.036	0.043	13.71
87)	4-Chlorotoluene	2.915	2.849	2.854	2.904	2.629	2.359	2.266	2.682	10.10
88)	tert-Butylbenzene	2.106	2.038	2.133	2.161	2.027	1.876	1.804	2.021	6.64
89)	1,2,4-Trimethylbe	3.307	3.350	3.402	3.528	3.143	2.807	2.641	3.168	10.36
90)	Pentachloroethane	0.468	0.487	0.505	0.504	0.500	0.503	0.495	0.495	2.69
91)	sec-Butylbenzene	4.521	4.433	4.625	4.661	4.063	3.504	3.258	4.152	13.64
92)	4-Isopropyltoluen	3.590	3.438	3.606	3.821	3.330	2.899	2.771	3.351	11.51

Initial Calibration Summary

Job Number: FA33606 **Sample:** VY1133-ICC1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28095.D
Project: BMSMC, Building 5 Area, Humacao, PR

```
 93)  1,3-Dichlorobenze 1.798 1.777 1.750 1.752 1.601 1.454 1.426 1.651   9.56
 94)  1,4-Dichlorobenze 1.862 1.876 1.713 1.791 1.601 1.434 1.432 1.673  11.25
 95)  n-Butylbenzene    2.081 1.878 1.920 2.204 1.895 1.692 1.709 1.911   9.67
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9965
               Response Ratio = 0.00000 + 2.07008 *A + -0.09770 *A^2

 96)  Benzyl Chloride   0.381 0.339 0.357 0.333 0.339 0.336 0.322 0.344   5.66
 97)  1,2-Dichlorobenze 1.638 1.733 1.674 1.667 1.537 1.432 1.389 1.582   8.30
 98)  1,2-Dibromo-3-Chl 0.190 0.182 0.179 0.174 0.175 0.176 0.164 0.177   4.53
 99)  Hexachlorobutadie 0.571 0.562 0.509 0.594 0.525 0.465       0.538   8.81
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
               Response Ratio = 0.00000 + 0.63172 *A + -0.05518 *A^2

100)  1,2,4-Trichlorobe 1.147 1.072 0.932 1.070 0.983             1.041   8.06
101)  Naphthalene       2.545 2.468 2.387 2.601 2.524 2.234 2.122 2.411   7.30
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
               Response Ratio = 0.00000 + 2.77280 *A + -0.16498 *A^2

102)  1,2,3-Trichlorobe 1.074 1.073 0.987 1.032 0.973             1.028   4.58

103) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
104)  Ethanol           0.134 0.153 0.125 0.135 0.129 0.119 0.136 0.133   8.03
105)  Acrolein          2.059 2.203 2.237 2.282 2.212 2.054 2.460 2.215   6.26
106)  Tert butyl alcoho 1.319 1.445 1.387 1.397 1.325 1.247 1.500 1.374   6.18
107)  Isobutyl alcohol  0.319 0.298 0.372 0.324 0.335 0.316 0.395 0.337  10.21
108)  Tert Amyl Alcohol 1.201 1.089 1.275 1.196 1.157 1.086 1.364 1.195   8.33
109)  1,4-Dioxane       0.127 0.125 0.137 0.136 0.155 0.144 0.185 0.144  14.23
 ---------------------------------------------------------------------------
 (#) = Out of Range

           042516APP9-Y.m        Tue Apr 26 09:09:56 2016
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6.7.6

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Initial Calibration Verification

Job Number: FA33606 **Sample:** VY1133-ICV1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28100.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\042516\Y28100.D Vial: 14
Acq On : 25 Apr 2016 12:40 pm Operator: ANGIED
Sample : ICV1133-4 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\042516APP9-Y.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B
Last Update : Mon Apr 25 13:07:57 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	106	0.00	7.12
2		Dichlorodifluoromethane	0.421	0.438	-4.0	103	0.00	1.98
3	P	Chloromethane	0.473	0.484	-2.3	102	0.00	2.20
4	C	Vinyl Chloride	0.477	0.469	1.7	99	0.00	2.32
5		Bromomethane	0.226	0.218	3.5	98	0.00	2.71
6		Chloroethane	0.248	0.213	14.1	90	0.00	2.88
7		Trichlorofluoromethane	0.442	0.442	0.0	97	0.00	3.05
8		Ethyl Ether	0.231	0.229	0.9	103	0.00	3.41
9		1,2-Dichlorotrifluoroetha	0.389	0.412	-5.9	107	0.00	3.64
10	C	1,1-Dichloroethene	0.529	0.531	-0.4	101	0.00	3.65
11		Freon 113	0.325	0.325	0.0	96	0.00	3.70
12		Carbon Disulfide	1.069	1.067	0.2	98	0.00	3.69
13		Iodomethane	0.467	0.462	1.1	100	0.00	3.81
14		Allyl chloride	0.450	0.393	12.7	89	0.00	4.18
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	51.111	-2.2	102	0.00	4.30
		----------	AvgRF	CCRF	%Dev		----------	
16		Acetone	0.072	0.059	18.1	86	0.00	4.35
17		Methyl acetate	0.151	0.146	3.3	97	0.00	4.49
18		trans-1,2-Dichloroethene	0.401	0.448	-11.7	112	0.00	4.49
19		Hexane	0.258	0.273	-5.8	102	0.00	4.59
20		Methyl Tert Butyl Ether	0.705	0.694	1.6	100	0.00	4.61
21		Acetonitrile	0.025	0.022	12.0	87	0.00	4.85
22		Di-isopropyl ether	0.852	0.846	0.7	102	0.00	5.02
23		Chloroprene	0.489	0.437	10.6	86	0.00	5.14
24	P	1,1-Dichloroethane	0.550	0.569	-3.5	98	0.00	5.16
25		Acrylonitrile	0.085	0.083	2.4	92	0.00	5.19
26		ETBE	0.849	0.829	2.4	98	0.00	5.43
27		Vinyl acetate	0.423	0.439	-3.8	103	0.00	5.42
28		cis-1,2-Dichloroethene	0.349	0.350	-0.3	102	0.00	5.75
29		2,2-Dichloropropane	0.212	0.236	-11.3	112	0.00	5.87
30		Bromochloromethane	0.144	0.143	0.7	100	0.00	5.97
31		Cyclohexane	0.554	0.569	-2.7	100	0.00	6.00
32	C	Chloroform	0.567	0.586	-3.4	104	0.00	6.05
33		Ethyl acetate	0.194	0.198	-2.1	106	0.00	6.16
		----------	Amount	Calc.	%Drift		----------	
34		Tetrahydrofuran	50.000	48.718	2.6	100	0.00	6.23
		----------	AvgRF	CCRF	%Dev		----------	

Initial Calibration Verification

Job Number: FA33606 **Sample:** VY1133-ICV1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28100.D
Project: BMSMC, Building 5 Area, Humacao, PR

35	S	Dibromofluoromethane	0.229	0.226	1.3	103	0.00	6.24
36		Carbon Tetrachloride	0.337	0.360	-6.8	108	0.00	6.22
37		1,1,1-Trichloroethane	0.410	0.418	-2.0	101	0.00	6.28
38		2-Butanone	0.107	0.095	11.2	92	0.00	6.37
39		1,1-Dichloropropene	0.430	0.473	-10.0	108	0.00	6.42
40		Propionitrile	0.034	0.033	2.9	96	0.00	6.68
41		Methacrylonitrile	0.123	0.122	0.8	99	0.00	6.70
42		Benzene	1.239	1.309	-5.6	104	0.00	6.68
43		TAME	0.794	0.798	-0.5	103	0.00	6.81
44	S	1,2-Dichloroethane-d4	0.242	0.233	3.7	105	0.00	6.82
45		1,2-Dichloroethane	0.343	0.350	-2.0	107	0.00	6.89
46		Trichloroethene	0.326	0.345	-5.8	107	0.00	7.31
47		Methylcyclohexane	0.581	0.635	-9.3	106	0.00	7.32
48		Dibromomethane	0.155	0.166	-7.1	112	0.00	7.75
49	C	1,2-Dichloropropane	0.310	0.310	0.0	106	0.00	7.85
50		Bromodichloromethane	0.354	0.372	-5.1	110	0.00	7.91
51		Methyl methacrylate	0.172	0.167	2.9	110	0.00	8.05
52		2-Chloroethyl vinyl ether	0.140	0.149	-6.4	111	0.00	8.47
53		cis-1,3-Dichloropropene	0.454	0.493	-8.6	111	0.00	8.55
54	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00	10.31
55	S	Toluene-d8	1.409	1.431	-1.6	106	0.00	8.75
56	C	Toluene	1.823	1.989	-9.1	106	0.00	8.80
57		2-Nitropropane	0.071	0.068	4.2	98	0.00	9.00
58		4-Methyl-2-pentanone	0.293	0.286	2.4	98	0.00	9.15
59		trans-1,3-Dichloropropene	0.514	0.615	-19.6	119	0.00	9.20
60		Tetrachloroethene	0.396	0.451	-13.9	107	0.00	9.20
61		Ethyl methacrylate	0.437	0.377	13.7	90	0.00	9.34
62		1,1,2-Trichloroethane	0.287	0.294	-2.4	104	0.00	9.36
63		Dibromochloromethane	0.338	0.367	-8.6	112	0.00	9.56
64		1,3-Dichloropropane	0.595	0.611	-2.7	105	0.00	9.64
65		1,2-Dibromoethane	0.314	0.319	-1.6	107	0.00	9.81
66		2-hexanone	0.206	0.186	9.7	93	0.00	9.99
67		1-Chlorohexane	0.561	0.611	-8.9	102	0.00	10.29
68	C	Ethylbenzene	1.872	2.109	-12.7	106	0.00	10.34
69	P	Chlorobenzene	1.104	1.212	-9.8	107	0.00	10.33
70		1,1,1,2-Tetrachloroethane	0.366	0.397	-8.5	108	0.00	10.38
		----------	Amount	Calc.	%Drift	----------		
71		m,p-Xylene	100.000	111.089	-11.1	107	0.00	10.49
		----------	AvgRF	CCRF	%Dev	----------		
72		o-Xylene	1.456	1.636	-12.4	108	0.00	10.92
73		Styrene	1.063	1.216	-14.4	108	0.00	10.97
74	P	Bromoform	0.174	0.187	-7.5	111	0.00	11.02
75		Isopropylbenzene	1.758	2.044	-16.3	107	0.00	11.23
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	12.68
77	S	4-Bromofluorobenzene	0.689	0.708	-2.8	108	0.00	11.53
78		cis-1,4-Dichloro-2-butene	0.256	0.223	12.9	88	0.00	11.58
		----------	Amount	Calc.	%Drift	----------		
79		n-Propylbenzene	50.000	57.324	-14.6	107	0.00	11.65
		----------	AvgRF	CCRF	%Dev	----------		
80		Bromobenzene	0.873	0.951	-8.9	105	0.00	11.65
81	P	1,1,2,2-Tetrachloroethane	0.919	0.892	2.9	97	0.00	11.72
82		1,3,5-Trimethylbenzene	3.285	3.798	-15.6	103	0.00	11.84
83		2-Chlorotoluene	3.051	3.460	-13.4	106	0.00	11.83
84		trans-1,4-Dichloro-2-Bute	0.242	0.219	9.5	97	0.00	11.89

Initial Calibration Verification

Job Number: FA33606 **Sample:** VY1133-ICV1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28100.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	1,2,3-Trichloropropane	0.254	0.251	1.2	108	0.00	11.86
86	Cyclohexanone	0.043	0.030	30.2#	73	0.00	11.92
87	4-Chlorotoluene	2.682	3.123	-16.4	108	0.00	12.00
88	tert-Butylbenzene	2.021	2.262	-11.9	105	0.00	12.18
89	1,2,4-Trimethylbenzene	3.168	3.709	-17.1	105	0.00	12.24
90	Pentachloroethane	0.495	0.503	-1.6	100	0.00	12.21
91	sec-Butylbenzene	4.152	4.897	-17.9	105	0.00	12.36
92	4-Isopropyltoluene	3.351	3.952	-17.9	103	0.00	12.50
93	1,3-Dichlorobenzene	1.651	1.929	-16.8	110	0.00	12.60
94	1,4-Dichlorobenzene	1.673	1.892	-13.1	106	0.00	12.69
	----------	Amount	Calc.	%Drift		----------	
95	n-Butylbenzene	50.000	59.396	-18.8	105	0.00	12.94
	----------	AvgRF	CCRF	%Dev		----------	
96	Benzyl Chloride	0.344	0.348	-1.2	104	0.00	12.94
97	1,2-Dichlorobenzene	1.582	1.796	-13.5	108	0.00	13.13
98	1,2-Dibromo-3-Chloropropa	0.177	0.163	7.9	94	0.00	13.95
	----------	Amount	Calc.	%Drift		----------	
99	Hexachlorobutadiene	50.000	56.446	-12.9	108	0.00	14.56
	----------	AvgRF	CCRF	%Dev		----------	
100	1,2,4-Trichlorobenzene	1.041	1.263	-21.3#	118	0.00	14.59
	----------	Amount	Calc.	%Drift		----------	
101	Naphthalene	50.000	58.815	-17.6	117	0.00	14.87
	----------	AvgRF	CCRF	%Dev		----------	
102	1,2,3-Trichlorobenzene	1.028	1.208	-17.5	117	0.00	15.04
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	94	0.00	4.63
104	Ethanol	0.133	0.136	-2.3	94	0.00	3.58
105	Acrolein	2.215	2.446	-10.4	101	0.00	4.01
106	Tert butyl alcohol	1.374	1.372	0.1	92	0.00	4.71
107	Isobutyl alcohol	0.337	0.323	4.2	94	0.00	6.89
108	Tert Amyl Alcohol	1.195	1.142	4.4	90	0.00	7.00
109	1,4-Dioxane	0.144	0.142	1.4	98	0.00	8.11

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y28095.D 042516APP9-Y.m Tue Apr 26 09:10:47 2016

6.7.7

6

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VY1144-CC1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28294.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\050316\Y28294.D            Vial: 6
Acq On    :  3 May 2016  10:09 am                     Operator: ANGIED
Sample    : CC1133-4                                  Inst    : MSVOA14
Misc      : MS33759,VY1144,5.00,,,5,,                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\042516APP9-Y.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Mon Apr 25 13:07:57 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	86	0.00	7.12
2		Dichlorodifluoromethane	0.421	0.475	-12.8	91	0.00	1.98
3	P	Chloromethane	0.473	0.485	-2.5	83	0.00	2.20
4	C	Vinyl Chloride	0.477	0.479	-0.4	82	0.00	2.32
5		Bromomethane	0.226	0.224	0.9	82	0.00	2.71
6		Chloroethane	0.248	0.217	12.5	75	0.00	2.88
7		Trichlorofluoromethane	0.442	0.470	-6.3	84	0.00	3.05
8		Ethyl Ether	0.231	0.227	1.7	83	0.00	3.41
9		1,2-Dichlorotrifluoroetha	0.389	0.368	5.4	78	0.00	3.64
10	C	1,1-Dichloroethene	0.529	0.504	4.7	78	0.00	3.65
11		Freon 113	0.325	0.321	1.2	77	0.00	3.70
12		Carbon Disulfide	1.069	1.019	4.7	76	0.00	3.69
13		Iodomethane	0.467	0.494	-5.8	87	0.00	3.81
14		Allyl chloride	0.450	0.447	0.7	83	0.00	4.18
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	46.094	7.8	75	0.00	4.29
		----------	AvgRF	CCRF	%Dev		----------	
16		Acetone	0.072	0.072	0.0	85	0.00	4.34
17		Methyl acetate	0.151	0.140	7.3	76	0.00	4.49
18		trans-1,2-Dichloroethene	0.401	0.397	1.0	81	0.00	4.48
19		Hexane	0.258	0.247	4.3	75	0.00	4.58
20		Methyl Tert Butyl Ether	0.705	0.778	-10.4	92	0.00	4.61
21		Acetonitrile	0.025	0.024	4.0	76	0.00	4.84
22		Di-isopropyl ether	0.852	0.903	-6.0	88	0.00	5.02
23		Chloroprene	0.489	0.524	-7.2	85	0.00	5.14
24	P	1,1-Dichloroethane	0.550	0.568	-3.3	80	0.00	5.16
25		Acrylonitrile	0.085	0.085	0.0	77	0.00	5.20
26		ETBE	0.849	0.936	-10.2	90	0.00	5.43
27		Vinyl acetate	0.423	0.444	-5.0	85	0.00	5.42
28		cis-1,2-Dichloroethene	0.349	0.359	-2.9	85	0.00	5.75
29		2,2-Dichloropropane	0.212	0.245	-15.6	94	0.00	5.87
30		Bromochloromethane	0.144	0.158	-9.7	90	0.00	5.97
31		Cyclohexane	0.554	0.568	-2.5	81	0.00	6.00
32	C	Chloroform	0.567	0.559	1.4	81	0.00	6.04
33		Ethyl acetate	0.194	0.179	7.7	78	0.00	6.16
		----------	Amount	Calc.	%Drift		----------	
34		Tetrahydrofuran	50.000	42.297	15.4	71	0.00	6.24
		----------	AvgRF	CCRF	%Dev		----------	

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VY1144-CC1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28294.D
Project: BMSMC, Building 5 Area, Humacao, PR

35	S	Dibromofluoromethane	0.229	0.232	-1.3	87	0.00	6.24
36		Carbon Tetrachloride	0.337	0.373	-10.7	91	0.00	6.22
37		1,1,1-Trichloroethane	0.410	0.425	-3.7	84	0.00	6.28
38		2-Butanone	0.107	0.101	5.6	80	0.00	6.36
39		1,1-Dichloropropene	0.430	0.434	-0.9	81	0.00	6.41
40		Propionitrile	0.034	0.031	8.8	75	0.00	6.67
41		Methacrylonitrile	0.123	0.120	2.4	80	0.00	6.70
42		Benzene	1.239	1.265	-2.1	82	0.00	6.68
43		TAME	0.794	0.853	-7.4	89	0.00	6.80
44	S	1,2-Dichloroethane-d4	0.242	0.228	5.8	84	0.00	6.82
45		1,2-Dichloroethane	0.343	0.336	2.0	83	0.00	6.89
46		Trichloroethene	0.326	0.319	2.1	81	0.00	7.31
47		Methylcyclohexane	0.581	0.595	-2.4	81	0.00	7.32
48		Dibromomethane	0.155	0.151	2.6	83	0.00	7.74
49	C	1,2-Dichloropropane	0.310	0.306	1.3	85	0.00	7.84
50		Bromodichloromethane	0.354	0.364	-2.8	88	0.00	7.91
51		Methyl methacrylate	0.172	0.158	8.1	85	0.00	8.05
52		2-Chloroethyl vinyl ether	0.140	0.141	-0.7	86	0.00	8.47
53		cis-1,3-Dichloropropene	0.454	0.468	-3.1	86	0.00	8.55
54	I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00	10.31
55	S	Toluene-d8	1.409	1.401	0.6	87	0.00	8.74
56	C	Toluene	1.823	1.880	-3.1	85	0.00	8.80
57		2-Nitropropane	0.071	0.068	4.2	84	0.00	9.00
58		4-Methyl-2-pentanone	0.293	0.275	6.1	80	0.00	9.15
59		trans-1,3-Dichloropropene	0.514	0.510	0.8	83	0.00	9.20
60		Tetrachloroethene	0.396	0.429	-8.3	86	0.00	9.20
61		Ethyl methacrylate	0.437	0.416	4.8	84	0.00	9.34
62		1,1,2-Trichloroethane	0.287	0.273	4.9	82	0.00	9.36
63		Dibromochloromethane	0.338	0.347	-2.7	89	0.00	9.56
64		1,3-Dichloropropane	0.595	0.578	2.9	84	0.00	9.64
65		1,2-Dibromoethane	0.314	0.307	2.2	87	0.00	9.81
66		2-hexanone	0.206	0.189	8.3	80	0.00	9.99
67		1-Chlorohexane	0.561	0.566	-0.9	80	0.00	10.29
68	C	Ethylbenzene	1.872	1.981	-5.8	85	0.00	10.34
69	P	Chlorobenzene	1.104	1.145	-3.7	85	0.00	10.32
70		1,1,1,2-Tetrachloroethane	0.366	0.392	-7.1	90	0.00	10.38
		----------	Amount	Calc.	%Drift	----------		
71		m,p-Xylene	100.000	104.320	-4.3	86	0.00	10.48
		----------	AvgRF	CCRF	%Dev	----------		
72		o-Xylene	1.456	1.548	-6.3	87	0.00	10.92
73		Styrene	1.063	1.146	-7.8	86	0.00	10.97
74	P	Bromoform	0.174	0.183	-5.2	92	0.00	11.01
75		Isopropylbenzene	1.758	1.913	-8.8	85	0.00	11.23
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	84	0.00	12.68
77	S	4-Bromofluorobenzene	0.689	0.736	-6.8	94	0.00	11.53
78		cis-1,4-Dichloro-2-butene	0.256	0.232	9.4	77	0.00	11.58
		----------	Amount	Calc.	%Drift	----------		
79		n-Propylbenzene	50.000	50.328	-0.7	80	0.00	11.65
		----------	AvgRF	CCRF	%Dev	----------		
80		Bromobenzene	0.873	0.928	-6.3	87	0.00	11.65
81	P	1,1,2,2-Tetrachloroethane	0.919	0.831	9.6	76	0.00	11.72
82		1,3,5-Trimethylbenzene	3.285	3.625	-10.4	83	0.00	11.84
83		2-Chlorotoluene	3.051	3.199	-4.9	83	0.00	11.83
84		trans-1,4-Dichloro-2-Bute	0.242	0.219	9.5	82	0.00	11.89

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VY1144-CC1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28294.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	1,2,3-Trichloropropane	0.254	0.221	13.0	81	0.00	11.86
86	Cyclohexanone	0.043	0.035	18.6	72	0.00	11.91
87	4-Chlorotoluene	2.682	2.870	-7.0	83	0.00	11.99
88	tert-Butylbenzene	2.021	2.166	-7.2	85	0.00	12.17
89	1,2,4-Trimethylbenzene	3.168	3.472	-9.6	83	0.00	12.25
90	Pentachloroethane	0.495	0.569	-14.9	95	0.00	12.22
91	sec-Butylbenzene	4.152	4.513	-8.7	82	0.00	12.36
92	4-Isopropyltoluene	3.351	3.762	-12.3	83	0.00	12.50
93	1,3-Dichlorobenzene	1.651	1.740	-5.4	84	0.00	12.60
94	1,4-Dichlorobenzene	1.673	1.746	-4.4	82	0.00	12.70
	----------	Amount	Calc.	%Drift	----------		
95	n-Butylbenzene	50.000	51.668	-3.3	78	0.00	12.94
	----------	AvgRF	CCRF	%Dev	----------		
96	Benzyl Chloride	0.344	0.342	0.6	87	0.00	12.93
97	1,2-Dichlorobenzene	1.582	1.683	-6.4	85	0.00	13.13
98	1,2-Dibromo-3-Chloropropa	0.177	0.163	7.9	79	0.00	13.94
	----------	Amount	Calc.	%Drift	----------		
99	Hexachlorobutadiene	50.000	56.967	-13.9	92	0.00	14.56
	----------	AvgRF	CCRF	%Dev	----------		
100	1,2,4-Trichlorobenzene	1.041	1.202	-15.5	95	0.00	14.59
	----------	Amount	Calc.	%Drift	----------		
101	Naphthalene	50.000	52.331	-4.7	88	0.00	14.87
	----------	AvgRF	CCRF	%Dev	----------		
102	1,2,3-Trichlorobenzene	1.028	1.192	-16.0	98	0.00	15.04
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	83	0.00	4.63
104	Ethanol	0.133	0.116	12.8	72	0.00	3.58
105	Acrolein	2.215	2.104	5.0	77	0.00	4.01
106	Tert butyl alcohol	1.374	1.302	5.2	77	0.00	4.71
107	Isobutyl alcohol	0.337	0.299	11.3	77	0.00	6.89
108	Tert Amyl Alcohol	1.195	1.096	8.3	76	0.00	7.00
109	1,4-Dioxane	0.144	0.143	0.7	87	0.00	8.12

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y28095.D 042516APP9-Y.m Wed May 04 09:24:00 2016

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VY1144-ECC1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28316.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\050316\Y28316.D            Vial: 28
Acq On    :  3 May 2016   7:48 pm                     Operator: ANGIED
Sample    : ECC1133-4                                 Inst    : MSVOA14
Misc      : MS33769,VY1144,5.00,,,5,,                 Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\msdchem\1\METHODS\042516APP9-Y.m (RTE Integrator)
Title        : SW-846 Method 5035A/8260B
Last Update  : Mon Apr 25 13:07:57 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	87	0.00	7.12
2		Dichlorodifluoromethane	0.421	0.483	-14.7	93	0.00	1.98
3	P	Chloromethane	0.473	0.467	1.3	81	0.00	2.20
4	C	Vinyl Chloride	0.477	0.464	2.7	80	0.00	2.32
5		Bromomethane	0.226	0.210	7.1	78	0.00	2.72
6		Chloroethane	0.248	0.210	15.3	73	0.00	2.88
7		Trichlorofluoromethane	0.442	0.434	1.8	78	0.00	3.05
8		Ethyl Ether	0.231	0.204	11.7	75	0.00	3.40
9		1,2-Dichlorotrifluoroetha	0.389	0.345	11.3	74	0.00	3.64
10	C	1,1-Dichloroethene	0.529	0.479	9.5	75	0.00	3.65
11		Freon 113	0.325	0.301	7.4	73	0.00	3.70
12		Carbon Disulfide	1.069	0.933	12.7	70	0.00	3.69
13		Iodomethane	0.467	0.461	1.3	82	0.00	3.81
14		Allyl chloride	0.450	0.423	6.0	79	0.00	4.18
		----------	Amount	Calc.	%Drift		----------	
15		Methylene Chloride	50.000	42.770	14.5	71	0.00	4.29
		----------	AvgRF	CCRF	%Dev		----------	
16		Acetone	0.072	0.064	11.1	76	0.00	4.35
17		Methyl acetate	0.151	0.131	13.2	72	0.00	4.49
18		trans-1,2-Dichloroethene	0.401	0.364	9.2	75	0.00	4.49
19		Hexane	0.258	0.219	15.1	67	0.00	4.58
20		Methyl Tert Butyl Ether	0.705	0.697	1.1	83	0.00	4.62
21		Acetonitrile	0.025	0.022	12.0	71	0.00	4.85
22		Di-isopropyl ether	0.852	0.816	4.2	80	0.00	5.03
23		Chloroprene	0.489	0.473	3.3	77	0.00	5.14
24	P	1,1-Dichloroethane	0.550	0.489	11.1	69	0.00	5.16
25		Acrylonitrile	0.085	0.074	12.9	67	0.00	5.19
26		ETBE	0.849	0.811	4.5	78	0.00	5.42
27		Vinyl acetate	0.423	0.387	8.5	74	0.00	5.42
28		cis-1,2-Dichloroethene	0.349	0.333	4.6	79	0.00	5.75
29		2,2-Dichloropropane	0.212	0.235	-10.8	91	0.00	5.87
30		Bromochloromethane	0.144	0.144	0.0	83	0.00	5.97
31		Cyclohexane	0.554	0.569	-2.7	82	0.00	6.00
32	C	Chloroform	0.567	0.532	6.2	77	0.00	6.05
33		Ethyl acetate	0.194	0.181	6.7	79	0.00	6.16
		----------	Amount	Calc.	%Drift		----------	
34		Tetrahydrofuran	50.000	47.031	5.9	79	0.00	6.24
		----------	AvgRF	CCRF	%Dev		----------	

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VY1144-ECC1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28316.D
Project: BMSMC, Building 5 Area, Humacao, PR

35	S	Dibromofluoromethane	0.229	0.221	3.5	83	0.00	6.24
36		Carbon Tetrachloride	0.337	0.353	-4.7	87	0.00	6.22
37		1,1,1-Trichloroethane	0.410	0.411	-0.2	82	0.00	6.28
38		2-Butanone	0.107	0.097	9.3	77	0.00	6.37
39		1,1-Dichloropropene	0.430	0.407	5.3	76	0.00	6.42
40		Propionitrile	0.034	0.030	11.8	72	0.00	6.67
41		Methacrylonitrile	0.123	0.117	4.9	78	0.00	6.70
42		Benzene	1.239	1.200	3.1	78	0.00	6.68
43		TAME	0.794	0.807	-1.6	85	0.00	6.81
44	S	1,2-Dichloroethane-d4	0.242	0.226	6.6	83	0.00	6.82
45		1,2-Dichloroethane	0.343	0.317	7.6	79	0.00	6.89
46		Trichloroethene	0.326	0.290	11.0	74	0.00	7.31
47		Methylcyclohexane	0.581	0.581	0.0	79	0.00	7.32
48		Dibromomethane	0.155	0.136	12.3	75	0.00	7.75
49	C	1,2-Dichloropropane	0.310	0.292	5.8	82	0.00	7.84
50		Bromodichloromethane	0.354	0.332	6.2	80	0.00	7.91
51		Methyl methacrylate	0.172	0.167	2.9	90	0.00	8.05
52		2-Chloroethyl vinyl ether	0.140	0.138	1.4	84	0.00	8.47
53		cis-1,3-Dichloropropene	0.454	0.427	5.9	79	0.00	8.55
54	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00	10.31
55	S	Toluene-d8	1.409	1.438	-2.1	87	0.00	8.75
56	C	Toluene	1.823	1.816	0.4	79	0.00	8.79
57		2-Nitropropane	0.071	0.069	2.8	81	0.00	9.00
58		4-Methyl-2-pentanone	0.293	0.279	4.8	78	0.00	9.15
59		trans-1,3-Dichloropropene	0.514	0.502	2.3	80	0.00	9.20
60		Tetrachloroethene	0.396	0.404	-2.0	78	0.00	9.20
61		Ethyl methacrylate	0.437	0.424	3.0	83	0.00	9.35
62		1,1,2-Trichloroethane	0.287	0.260	9.4	76	0.00	9.37
63		Dibromochloromethane	0.338	0.333	1.5	83	0.00	9.56
64		1,3-Dichloropropane	0.595	0.567	4.7	80	0.00	9.64
65		1,2-Dibromoethane	0.314	0.300	4.5	83	0.00	9.80
66		2-hexanone	0.206	0.196	4.9	81	0.00	9.99
67		1-Chlorohexane	0.561	0.531	5.3	73	0.00	10.29
68	C	Ethylbenzene	1.872	1.894	-1.2	78	0.00	10.34
69	P	Chlorobenzene	1.104	1.069	3.2	77	0.00	10.33
70		1,1,1,2-Tetrachloroethane	0.366	0.376	-2.7	84	0.00	10.38
		----------	Amount	Calc.	%Drift	----------		
71		m,p-Xylene	100.000	95.971	4.0	77	0.00	10.49
		----------	AvgRF	CCRF	%Dev	----------		
72		o-Xylene	1.456	1.498	-2.9	81	0.00	10.92
73		Styrene	1.063	1.054	0.8	77	0.00	10.97
74	P	Bromoform	0.174	0.181	-4.0	87	0.00	11.02
75		Isopropylbenzene	1.758	1.838	-4.6	79	0.00	11.23
76	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	82	0.00	12.68
77	S	4-Bromofluorobenzene	0.689	0.729	-5.8	91	0.00	11.53
78		cis-1,4-Dichloro-2-butene	0.256	0.236	7.8	76	0.00	11.57
		----------	Amount	Calc.	%Drift	----------		
79		n-Propylbenzene	50.000	45.881	8.2	71	0.00	11.65
		----------	AvgRF	CCRF	%Dev	----------		
80		Bromobenzene	0.873	0.880	-0.8	80	0.00	11.65
81	P	1,1,2,2-Tetrachloroethane	0.919	0.825	10.2	73	0.00	11.71
82		1,3,5-Trimethylbenzene	3.285	3.317	-1.0	74	0.00	11.84
83		2-Chlorotoluene	3.051	2.943	3.5	74	0.00	11.82
84		trans-1,4-Dichloro-2-Bute	0.242	0.209	13.6	76	0.00	11.89

Continuing Calibration Summary

Job Number: FA33606 **Sample:** VY1144-ECC1133
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** Y28316.D
Project: BMSMC, Building 5 Area, Humacao, PR

85	1,2,3-Trichloropropane	0.254	0.225	11.4	79	0.00	11.86
86	Cyclohexanone	0.043	0.037	14.0	74	0.00	11.92
87	4-Chlorotoluene	2.682	2.484	7.4	70	0.00	11.99
88	tert-Butylbenzene	2.021	2.097	-3.8	79	0.00	12.18
89	1,2,4-Trimethylbenzene	3.168	3.106	2.0	72	0.00	12.25
90	Pentachloroethane	0.495	0.539	-8.9	87	0.00	12.21
91	sec-Butylbenzene	4.152	4.234	-2.0	74	0.00	12.36
92	4-Isopropyltoluene	3.351	3.275	2.3	70	0.00	12.50
93	1,3-Dichlorobenzene	1.651	1.504	8.9	70	0.00	12.60
94	1,4-Dichlorobenzene	1.673	1.473	12.0	67	0.00	12.69
	----------	Amount	Calc.	%Drift	----------		
95	n-Butylbenzene	50.000	40.919	18.2	60	0.00	12.94
	----------	AvgRF	CCRF	%Dev	----------		
96	Benzyl Chloride	0.344	0.311	9.6	76	0.00	12.94
97	1,2-Dichlorobenzene	1.582	1.526	3.5	75	0.00	13.13
98	1,2-Dibromo-3-Chloropropa	0.177	0.162	8.5	76	0.00	13.95
	----------	Amount	Calc.	%Drift	----------		
99	Hexachlorobutadiene	50.000	46.333	7.3	74	0.00	14.56
	----------	AvgRF	CCRF	%Dev	----------		
100	1,2,4-Trichlorobenzene	1.041	0.914	12.2	70	0.00	14.59
	----------	Amount	Calc.	%Drift	----------		
101	Naphthalene	50.000	50.029	-0.1	82	0.00	14.87
	----------	AvgRF	CCRF	%Dev	----------		
102	1,2,3-Trichlorobenzene	1.028	0.968	5.8	77	0.00	15.04
103 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	82	0.00	4.63
104	Ethanol	0.133	0.108	18.8	66	0.00	3.57
105	Acrolein	2.215	1.905	14.0	68	0.00	4.01
106	Tert butyl alcohol	1.374	1.235	10.1	73	0.00	4.71
107	Isobutyl alcohol	0.337	0.299	11.3	76	0.00	6.90
108	Tert Amyl Alcohol	1.195	1.098	8.1	75	0.00	7.00
109	1,4-Dioxane	0.144	0.133	7.6	80	0.00	8.11

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Y28095.D 042516APP9-Y.m Wed May 04 09:47:31 2016

6.7.9

6

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976282.D
Acq On : 4 May 2016 10:13 am
Operator : darshnap
Sample : fa33606-1 ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:12:14 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1160070	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	880054	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	442978	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	53372	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	301356	51.19	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.38%			
46) 1,2-Dichloroethane-d4	7.482	65	348985	49.02	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.04%			
57) Toluene-d8	9.301	98	1173941	50.70	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.40%			
79) 4-Bromofluorobenzene	12.057	95	420388	52.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.94%			

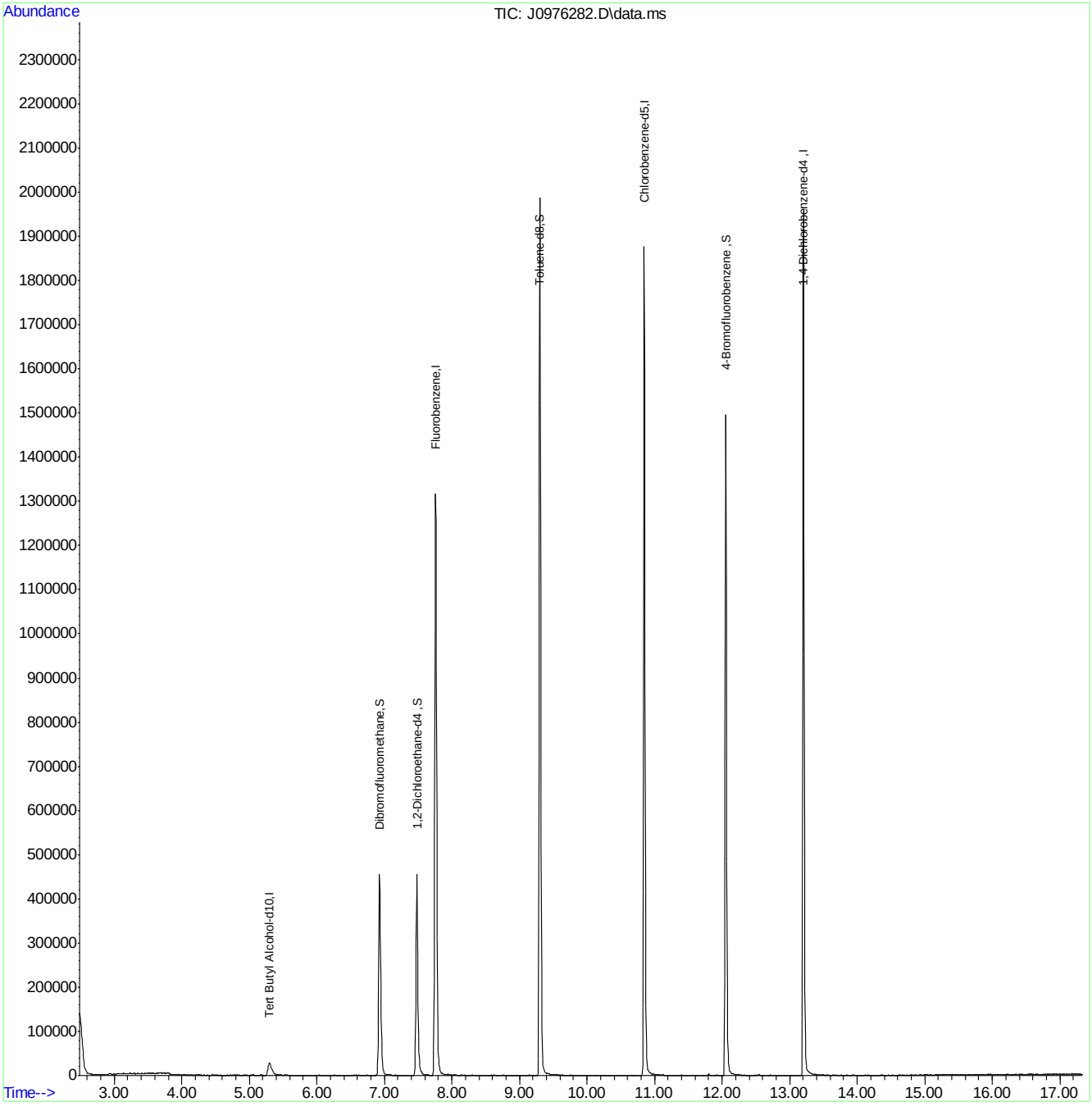
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976282.D
Acq On : 4 May 2016 10:13 am
Operator : darshnap
Sample : fa33606-1 ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 04 11:12:14 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976283.D
Acq On : 4 May 2016 10:38 am
Operator : darshnap
Sample : fa33606-2 ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 04 11:12:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1104715	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	829438	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	434531	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	52654	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	290833	51.88	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.76%			
46) 1,2-Dichloroethane-d4	7.476	65	332673	49.07	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.14%			
57) Toluene-d8	9.301	98	1099212	50.37	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.74%			
79) 4-Bromofluorobenzene	12.057	95	410991	52.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.58%			

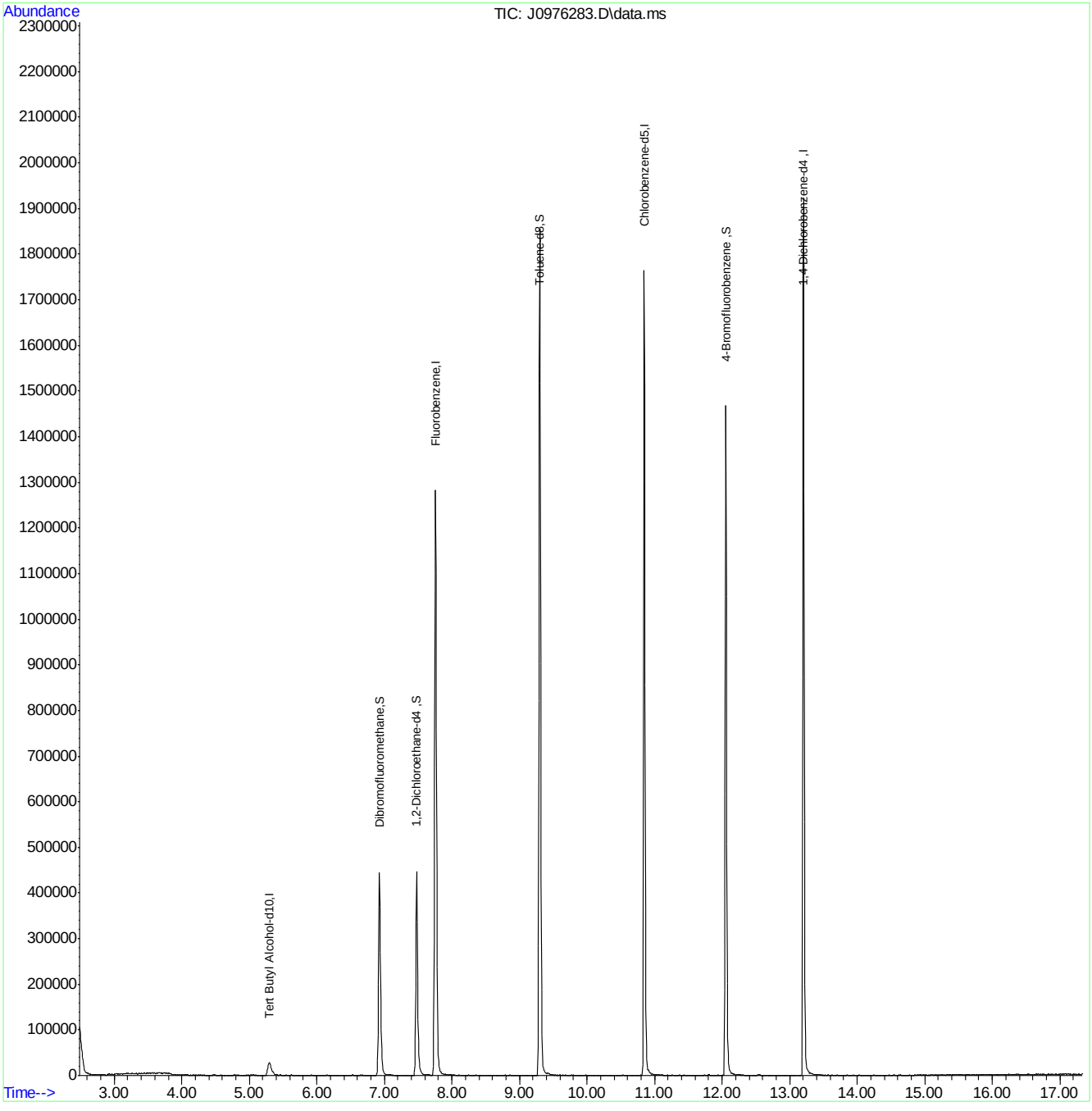
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976283.D
Acq On : 4 May 2016 10:38 am
Operator : darshnap
Sample : fa33606-2 ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 04 11:12:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976284.D
Acq On : 4 May 2016 11:02 am
Operator : darshnap
Sample : fa33606-3 ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:27:23 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1091843	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	821734	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	428352	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	54443	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	286868	51.78	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.56%			
46) 1,2-Dichloroethane-d4	7.476	65	332807	49.67	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.34%			
57) Toluene-d8	9.301	98	1086682	50.26	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.52%			
79) 4-Bromofluorobenzene	12.057	95	400654	51.71	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.42%			

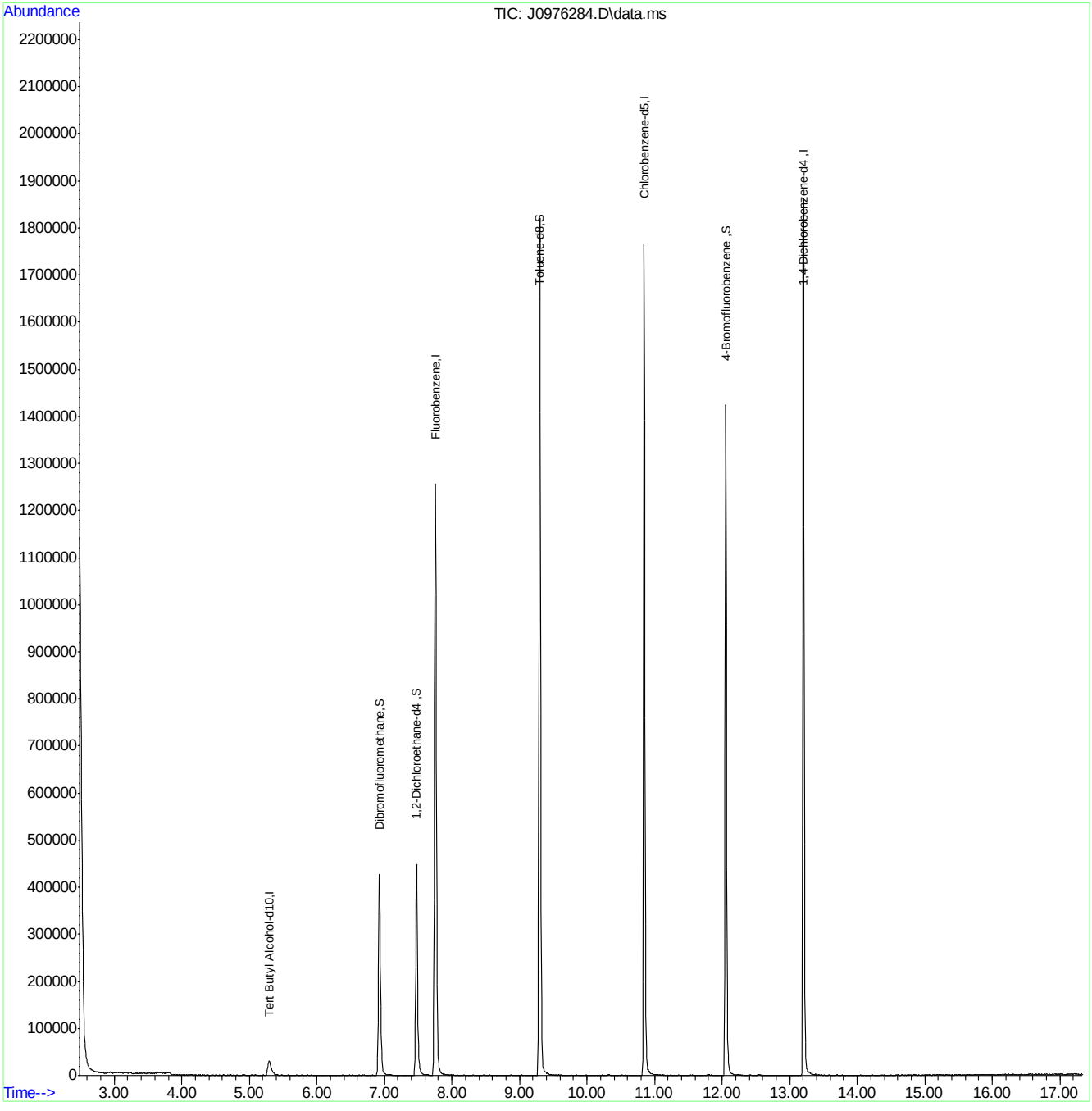
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976284.D
Acq On : 4 May 2016 11:02 am
Operator : darshnap
Sample : fa33606-3 ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 04 11:27:23 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28301.D
Acq On : 3 May 2016 1:13 pm
Operator : ANGIED
Sample : FA33606-4 MA Inst : MSVOA14
Misc : MS33772,VY1145,4.64,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 03 13:45:21 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

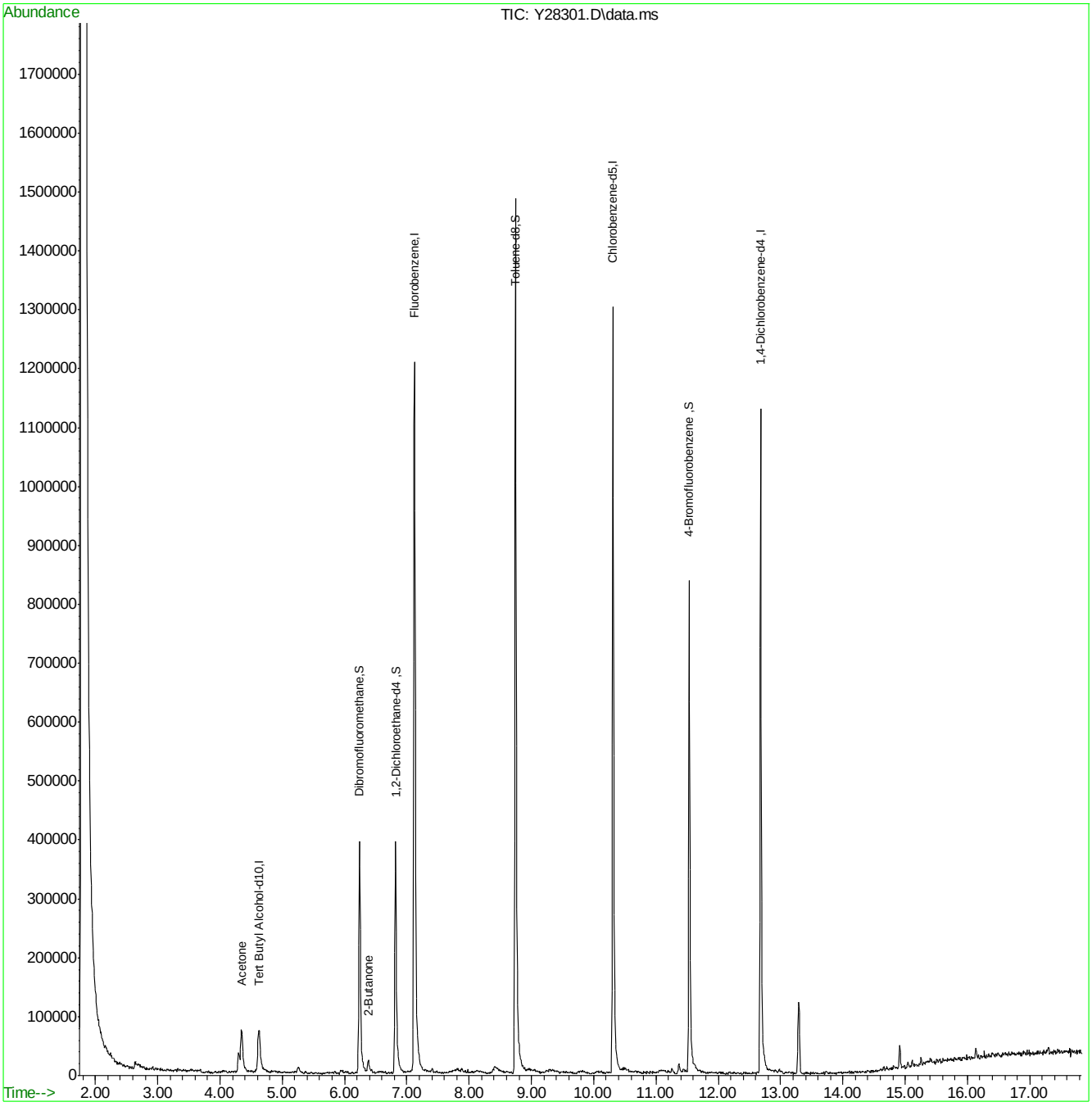
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.123	96	1075506	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.311	117	678399	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.678	152	277413	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.623	65	114557	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.241	113	249807	50.75	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.50%			
44) 1,2-Dichloroethane-d4	6.819	65	265942	51.13	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 102.26%			
55) Toluene-d8	8.742	98	968283	50.66	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.32%			
77) 4-Bromofluorobenzene	11.534	174	205296	53.74	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 107.48%			
Target Compounds						Qvalue
16) Acetone	4.343	43	110221	71.49	ug/Kg	95
38) 2-Butanone	6.381	43	32979	14.34	ug/Kg	99

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

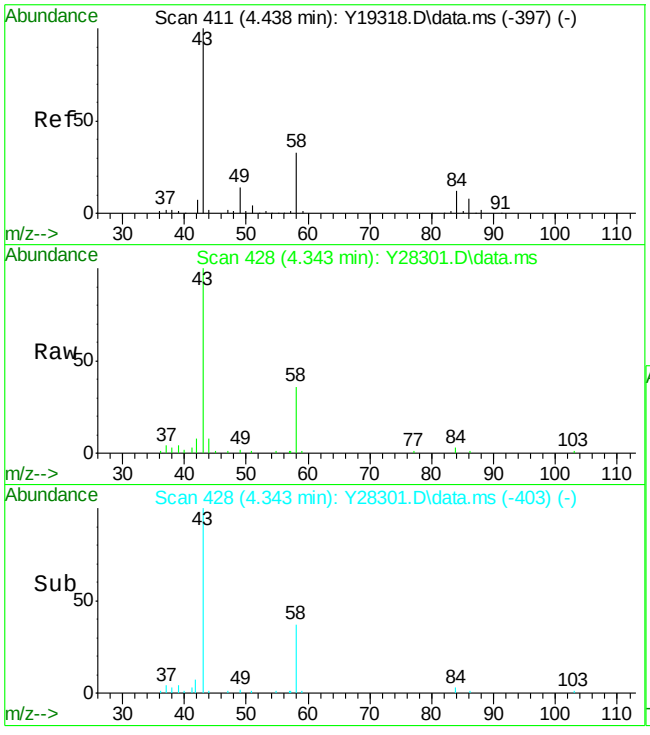
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28301.D
Acq On : 3 May 2016 1:13 pm
Operator : ANGIED
Sample : FA33606-4 MA Inst : MSVOA14
Misc : MS33772,VY1145,4.64,,,5,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: May 03 13:45:21 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration



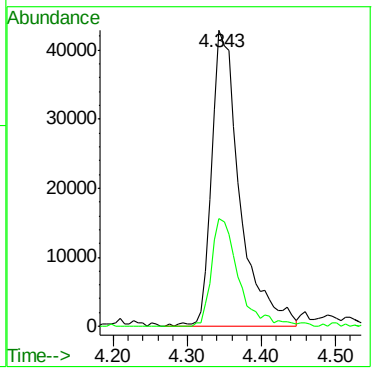
SGS ACCUTEST FA33606

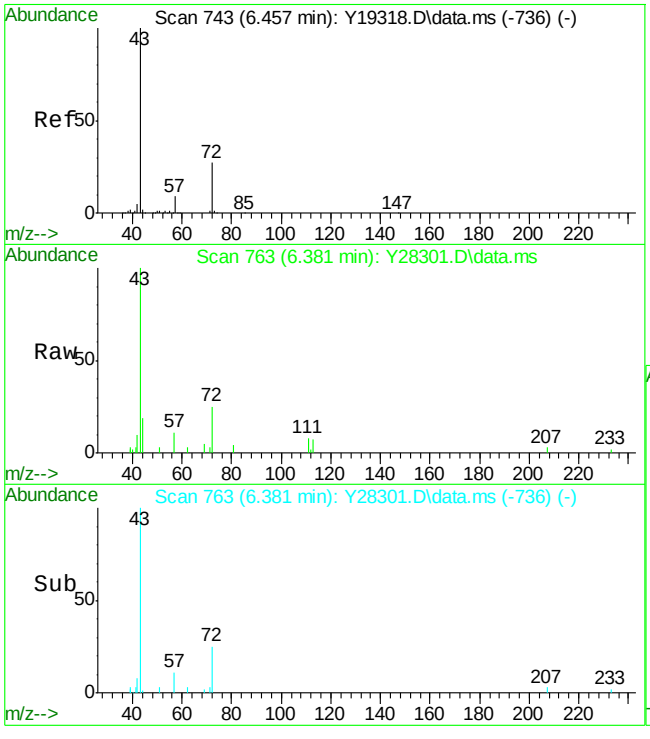


#16
Acetone
Concen: 71.49 ug/Kg
RT: 4.343 min Scan# 428
Delta R.T. 0.002 min
Lab File: Y28301.D
Acq: 3 May 2016 1:13 pm

Tgt Ion: 43 Resp: 110221

Ion	Ratio	Lower	Upper
43	100		
58	36.3	3.5	63.5

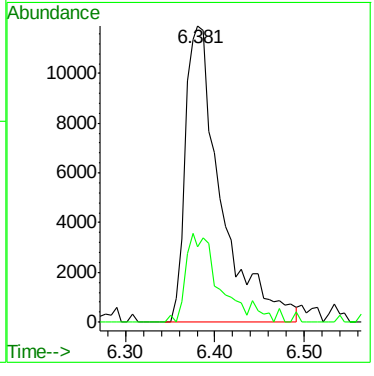




#38
2-Butanone
Concen: 14.34 ug/Kg
RT: 6.381 min Scan# 763
Delta R.T. 0.014 min
Lab File: Y28301.D
Acq: 3 May 2016 1:13 pm

Tgt Ion: 43 Resp: 32979

Ion	Ratio	Lower	Upper
43	100		
72	25.3	0.0	56.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976285.D
Acq On : 4 May 2016 11:25 am
Operator : darshnap
Sample : fa33606-5 ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 12:42:45 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1053757	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	806848	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	421579	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	53020	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	270589	50.61	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.22%			
46) 1,2-Dichloroethane-d4	7.476	65	316510	48.95	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.90%			
57) Toluene-d8	9.301	98	1073821	50.59	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.18%			
79) 4-Bromofluorobenzene	12.057	95	396776	52.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.06%			

Target Compounds Qvalue

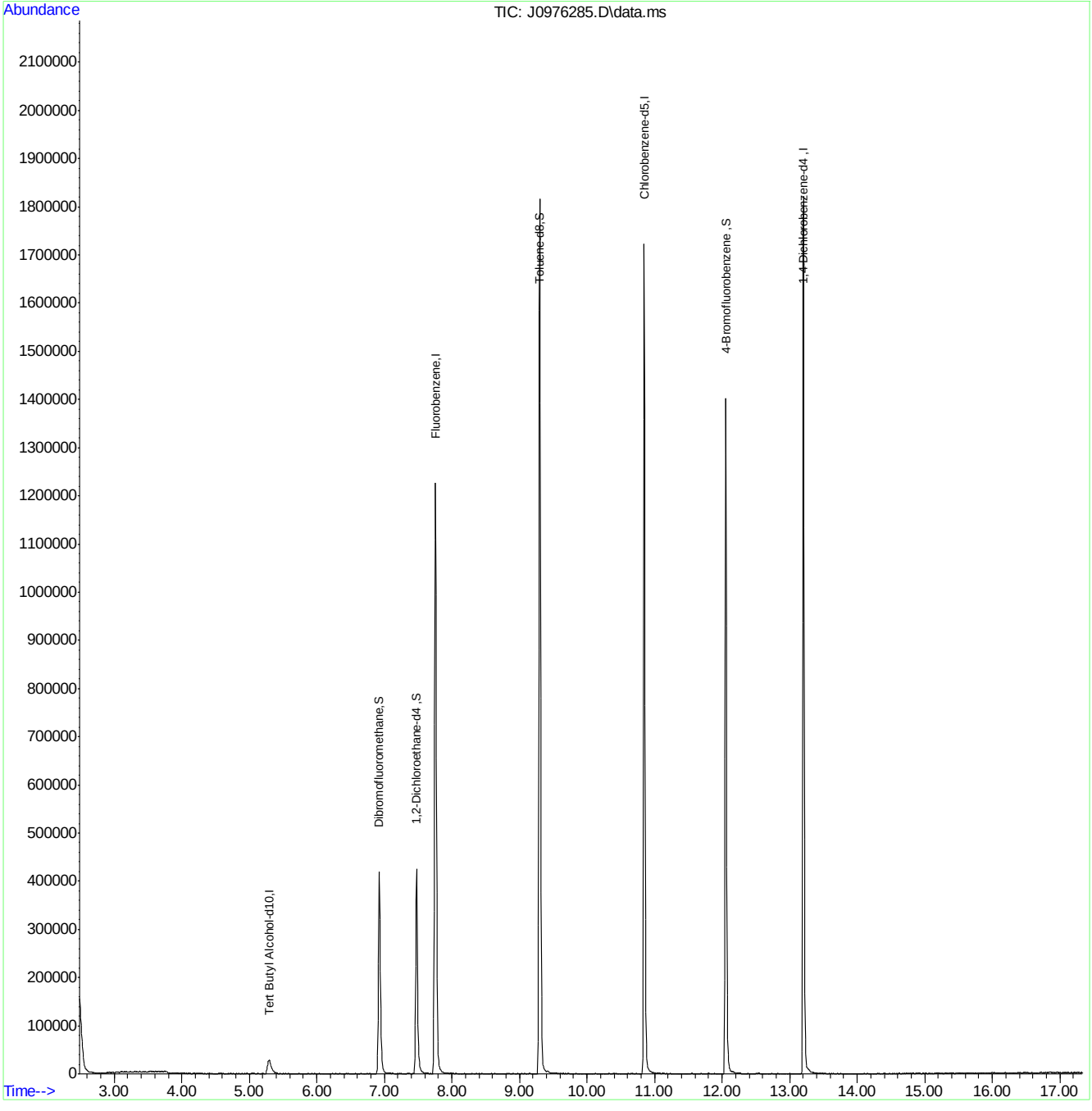
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976285.D
Acq On : 4 May 2016 11:25 am
Operator : darshnap
Sample : fa33606-5 ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 04 12:42:45 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976286.D
Acq On : 4 May 2016 11:47 am
Operator : darshnap
Sample : fa33606-6 ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 04 12:43:37 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1062191	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	817737	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	423402	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	51251	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	280124	51.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.94%			
46) 1,2-Dichloroethane-d4	7.482	65	320930	49.23	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.46%			
57) Toluene-d8	9.301	98	1078676	50.14	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.28%			
79) 4-Bromofluorobenzene	12.057	95	398021	51.97	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.94%			

Target Compounds Qvalue

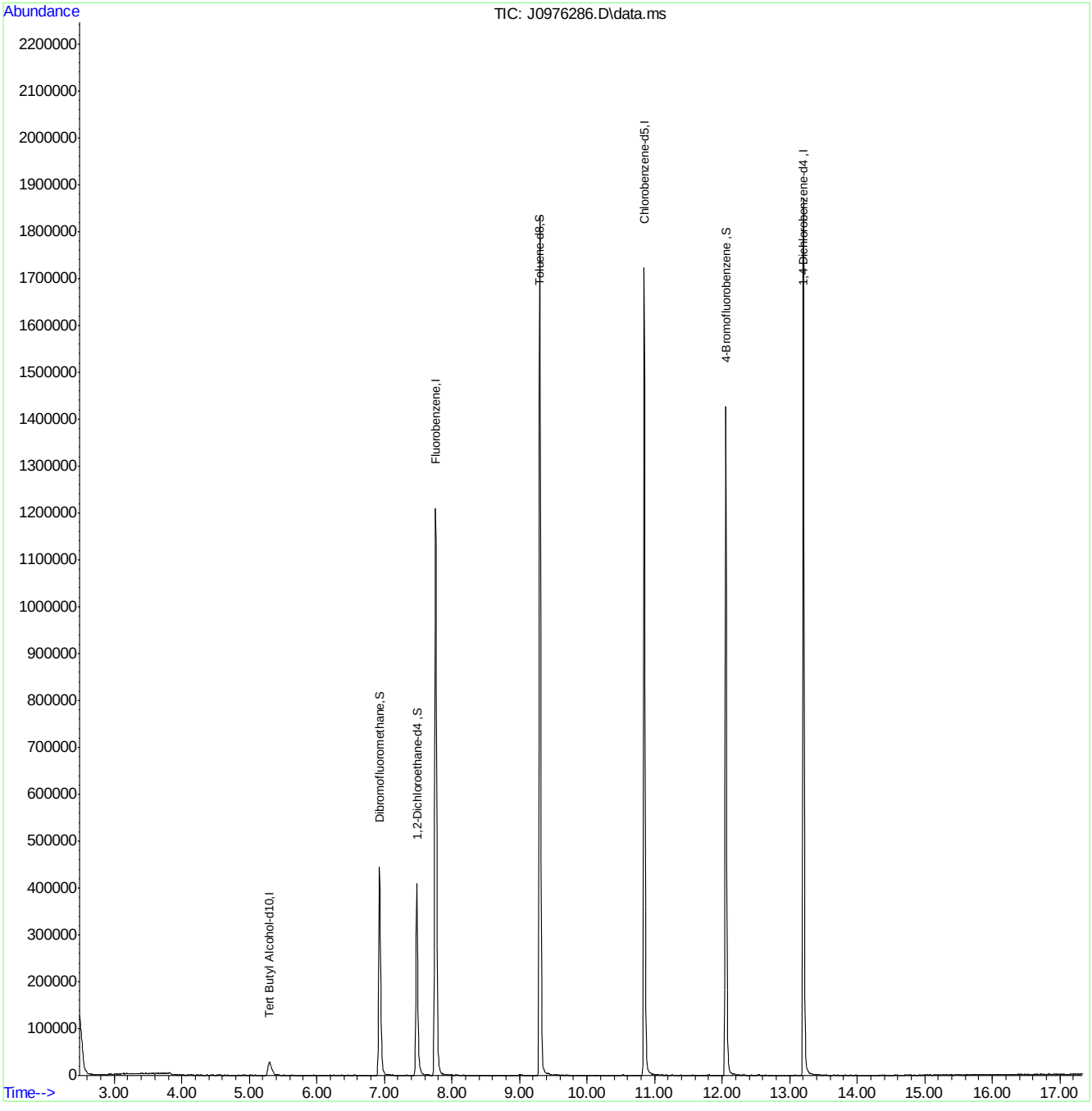
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976286.D
Acq On : 4 May 2016 11:47 am
Operator : darshnap
Sample : fa33606-6 ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 04 12:43:37 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28296.D
Acq On : 3 May 2016 11:02 am
Operator : ANGIED
Sample : MB MA Inst : MSVOA14
Misc : MS33772,VY1145,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 03 11:20:14 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.123	96	1116388	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.311	117	757764	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.677	152	356444	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.659	65	140707	250.00	ug/Kg	0.03

System Monitoring Compounds

35) Dibromofluoromethane	6.241	113	256571	50.22	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.44%			
44) 1,2-Dichloroethane-d4	6.819	65	283366	52.48	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 104.96%			
55) Toluene-d8	8.741	98	1049676	49.17	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.34%			
77) 4-Bromofluorobenzene	11.534	174	266638	54.32	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 108.64%			

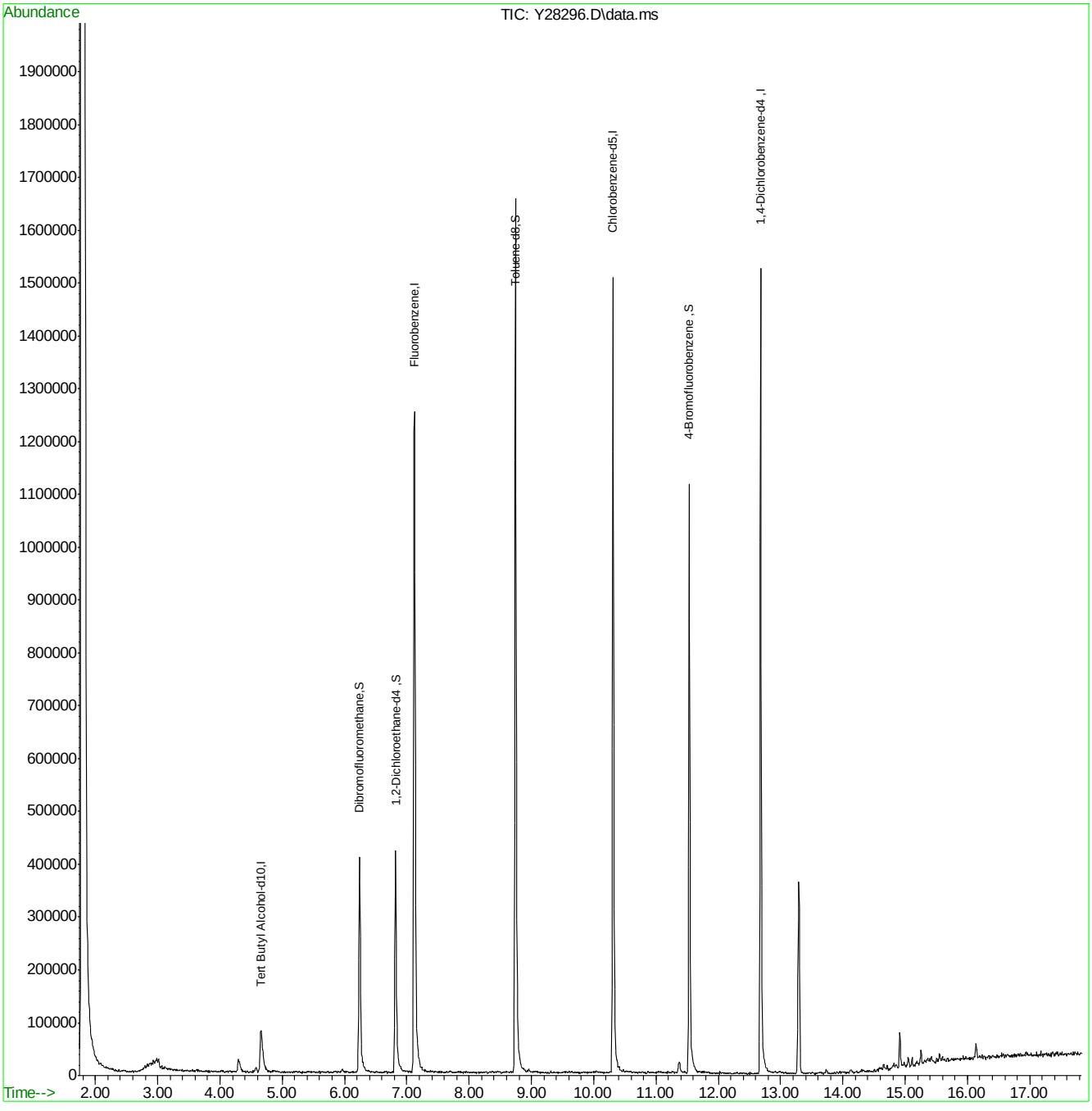
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28296.D
Acq On : 3 May 2016 11:02 am
Operator : ANGIED
Sample : MB MA Inst : MSVOA14
Misc : MS33772,VY1145,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 03 11:20:14 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration



042516APP9-Y.m Wed May 04 10:43:57 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976281.D
Acq On : 4 May 2016 9:50 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 11:11:52 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1205723	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	903735	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	461137	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	62406	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	306877	50.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.32%			
46) 1,2-Dichloroethane-d4	7.482	65	359632	48.60	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 97.20%			
57) Toluene-d8	9.301	98	1217567	51.21	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.42%			
79) 4-Bromofluorobenzene	12.057	95	443463	53.17	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.34%			

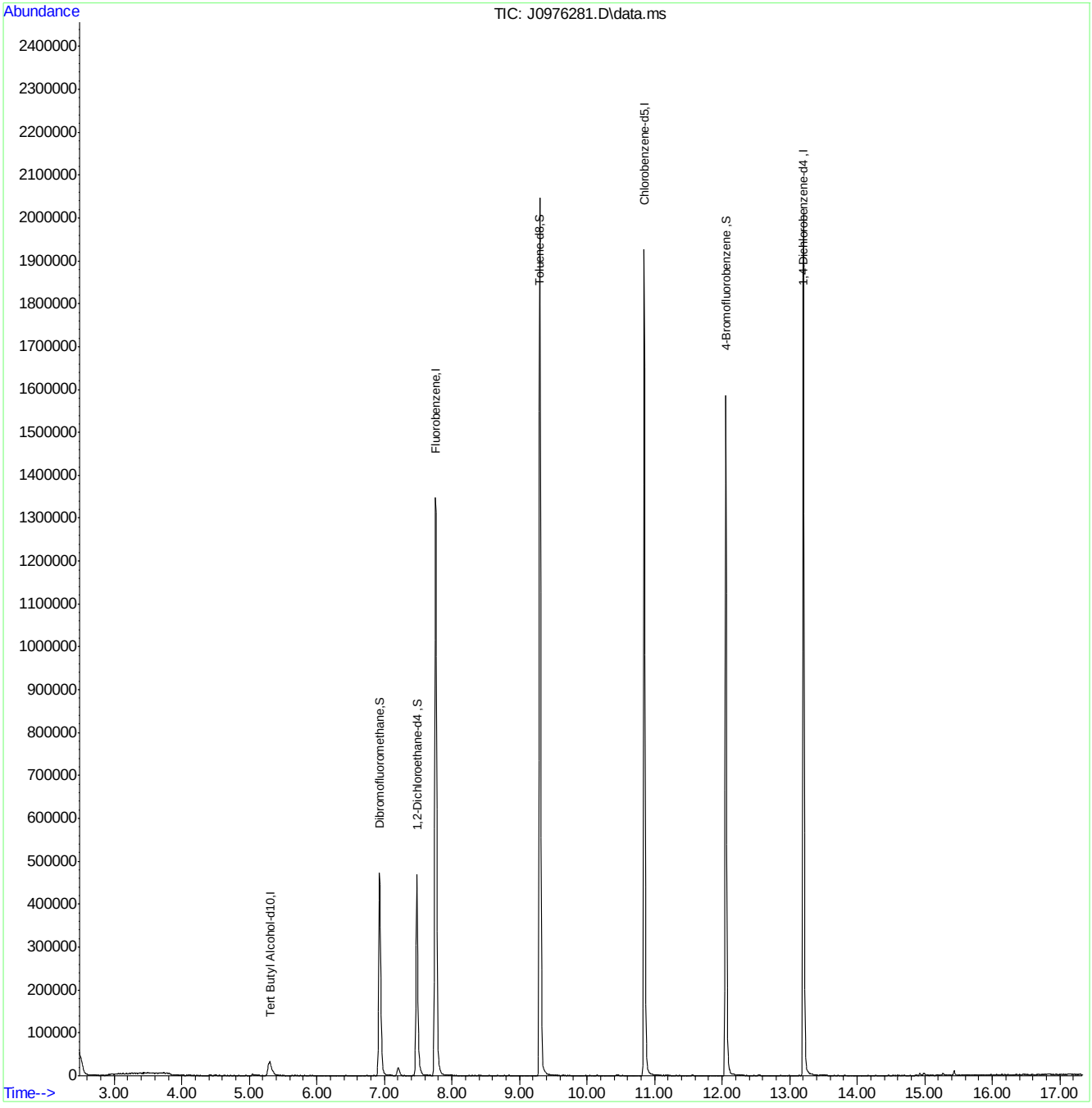
Target Compounds Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976281.D
Acq On : 4 May 2016 9:50 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 04 11:11:52 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



MSJ031516.M Wed May 04 12:52:50 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28295.D
Acq On : 3 May 2016 10:35 am
Operator : ANGIED
Sample : BS MA Inst : MSVOA14
Misc : MS33772,VY1145,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 03 10:57:28 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.118	96	1232396	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.306	117	840192	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.679	152	431910	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.624	65	134772	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	6.236	113	284040	50.36	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.72%			
44) 1,2-Dichloroethane-d4	6.820	65	291136	48.85	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 97.70%			
55) Toluene-d8	8.743	98	1153759	48.74	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.48%			
77) 4-Bromofluorobenzene	11.535	174	297469	50.01	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.02%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.978	85	566380	54.56	ug/Kg	96
3) Chloromethane	2.203	50	574642	49.25	ug/Kg	99
4) Vinyl Chloride	2.319	62	557776	47.47	ug/Kg	96
5) Bromomethane	2.714	94	270366	48.60	ug/Kg	96
6) Chloroethane	2.878	64	261938	42.90	ug/Kg	97
7) Trichlorofluoromethane	3.055	101	552657	50.78	ug/Kg	100
8) Ethyl Ether	3.407	59	265334	46.68	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.639	67	451109	47.04	ug/Kg	94
10) 1,1-Dichloroethene	3.651	61	602746	46.25	ug/Kg	90
11) Freon 113	3.706	101	363016	45.37	ug/Kg	96
12) Carbon Disulfide	3.687	76	1184877	44.96	ug/Kg	97
13) Iodomethane	3.815	142	559361	48.56	ug/Kg	99
14) Allyl chloride	4.180	41	443385	40.01	ug/Kg	94
15) Methylene Chloride	4.296	49	463209	46.63	ug/Kg	93
16) Acetone	4.344	43	348073	197.03	ug/Kg	95
17) Methyl acetate	4.484	43	885785	238.57	ug/Kg	94
18) trans-1,2-Dichloroethene	4.484	61	505149	51.08	ug/Kg	98
19) Hexane	4.582	56	284316	44.76	ug/Kg	93
20) Methyl Tert Butyl Ether	4.612	73	898822	51.70	ug/Kg#	21
21) Acetonitrile	4.843	41	260979	418.96	ug/Kg	99
22) Di-isopropyl ether	5.026	45	1007343	47.94	ug/Kg	91
23) Chloroprene	5.135	53	504000	41.77	ug/Kg	98
24) 1,1-Dichloroethane	5.160	63	636184	46.91	ug/Kg	96
25) Acrylonitrile	5.196	53	491617	235.29	ug/Kg	98
26) ETBE	5.427	59	993711	47.50	ug/Kg	97
27) Vinyl acetate	5.421	43	2619745	251.48	ug/Kg	94
28) cis-1,2-Dichloroethene	5.750	96	412960	47.98	ug/Kg	95
29) 2,2-Dichloropropane	5.871	77	299696	57.26	ug/Kg	98
30) Bromochloromethane	5.969	128	183040	51.60	ug/Kg#	78
31) Cyclohexane	5.999	84	669410	49.00	ug/Kg	92
32) Chloroform	6.042	83	679548	48.63	ug/Kg	98
33) Ethyl acetate	6.163	43	1201763	251.34	ug/Kg	93
34) Tetrahydrofuran	6.236	42	81057	49.75	ug/Kg	92
36) Carbon Tetrachloride	6.218	117	466590	56.16	ug/Kg	98

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28295.D
Acq On : 3 May 2016 10:35 am
Operator : ANGIED
Sample : BS MA Inst : MSVOA14
Misc : MS33772,VY1145,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 03 10:57:28 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.279	97	507004	50.22 ug/Kg	100
38) 2-Butanone	6.364	43	589390	223.68 ug/Kg	93
39) 1,1-Dichloropropene	6.413	75	545270	51.42 ug/Kg	97
40) Propionitrile	6.674	54	386360	457.24 ug/Kg	97
41) Methacrylonitrile	6.705	41	1456666	482.18 ug/Kg	93
42) Benzene	6.680	78	1525340	49.94 ug/Kg	93
43) TAME	6.802	73	978060	49.98 ug/Kg	97
45) 1,2-Dichloroethane	6.893	62	411441	48.68 ug/Kg	95
46) Trichloroethene	7.313	95	382105	47.61 ug/Kg	92
47) Methylcyclohexane	7.319	83	729602	50.95 ug/Kg	95
48) Dibromomethane	7.745	93	190455	49.92 ug/Kg	94
49) 1,2-Dichloropropane	7.842	63	372753	48.73 ug/Kg	95
50) Bromodichloromethane	7.909	83	446273	51.14 ug/Kg	96
51) Methyl methacrylate	8.055	41	202942	47.93 ug/Kg	90
52) 2-Chloroethyl vinyl ether	8.469	63	893864	259.21 ug/Kg	97
53) cis-1,3-Dichloropropene	8.548	75	573357	51.23 ug/Kg	96
56) Toluene	8.797	91	1551027	50.64 ug/Kg	95
57) 2-Nitropropane	9.004	41	295829	246.62 ug/Kg	93
58) 4-Methyl-2-pentanone	9.150	43	1176419	238.78 ug/Kg	92
59) trans-1,3-Dichloropropene	9.205	75	489125	56.59 ug/Kg	96
60) Tetrachloroethene	9.205	166	370065	55.59 ug/Kg	96
61) Ethyl methacrylate	9.345	69	320790	43.66 ug/Kg	94
62) 1,1,2-Trichloroethane	9.363	83	229900	47.69 ug/Kg	95
63) Dibromochloromethane	9.558	129	302062	53.14 ug/Kg	98
64) 1,3-Dichloropropane	9.643	76	479860	48.01 ug/Kg	99
65) 1,2-Dibromoethane	9.801	107	264212	50.11 ug/Kg	98
66) 2-hexanone	9.990	43	780149	225.15 ug/Kg	91
67) 1-Chlorohexane	10.288	91	477274	50.66 ug/Kg	87
68) Ethylbenzene	10.343	91	1656174	52.64 ug/Kg	94
69) Chlorobenzene	10.324	112	960915	51.78 ug/Kg	93
70) 1,1,1,2-Tetrachloroethane	10.385	131	327206	53.13 ug/Kg	97
71) m,p-Xylene	10.483	91	2460478	104.02 ug/Kg	93
72) o-Xylene	10.921	91	1302581	53.22 ug/Kg	98
73) Styrene	10.969	104	983918	55.06 ug/Kg	97
74) Bromoform	11.012	173	168329	57.52 ug/Kg	98
75) Isopropylbenzene	11.231	105	1625674	55.04 ug/Kg	96
78) cis-1,4-Dichloro-2-butene	11.578	53	85775	38.84 ug/Kg	96
79) n-Propylbenzene	11.651	91	1840926	47.71 ug/Kg	94
80) Bromobenzene	11.651	156	365922	48.55 ug/Kg	97
81) 1,1,2,2-Tetrachloroethane	11.711	83	334437	42.15 ug/Kg	99
82) 1,3,5-Trimethylbenzene	11.845	105	1405803	49.54 ug/Kg	95
83) 2-Chlorotoluene	11.827	91	1284034	48.71 ug/Kg	97
84) trans-1,4-Dichloro-2-B...	11.894	53	83333	39.94 ug/Kg	93
85) 1,2,3-Trichloropropane	11.863	110	91216	41.54 ug/Kg	96
86) Cyclohexanone	11.912	55	58836	159.64 ug/Kg	93
87) 4-Chlorotoluene	11.991	91	1151472	49.70 ug/Kg	99
88) tert-Butylbenzene	12.174	91	830773	47.60 ug/Kg	98
89) 1,2,4-Trimethylbenzene	12.247	105	1371508	50.12 ug/Kg	95
90) Pentachloroethane	12.210	167	204743	47.92 ug/Kg	98
91) sec-Butylbenzene	12.356	105	1799614	50.17 ug/Kg	98

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28295.D
Acq On : 3 May 2016 10:35 am
Operator : ANGIED
Sample : BS MA Inst : MSVOA14
Misc : MS33772,VY1145,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 03 10:57:28 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.502	119	1466289	50.66	ug/Kg	99
93) 1,3-Dichlorobenzene	12.606	146	713797	50.05	ug/Kg	98
94) 1,4-Dichlorobenzene	12.691	146	707037	48.93	ug/Kg	98
95) n-Butylbenzene	12.940	92	813175	47.62	ug/Kg	89
96) Benzyl Chloride	12.934	126	140038	47.15	ug/Kg#	43
97) 1,2-Dichlorobenzene	13.135	146	674593	49.38	ug/Kg	97
98) 1,2-Dibromo-3-Chloropr...	13.944	75	63292	41.34	ug/Kg	90
99) Hexachlorobutadiene	14.552	225	253312	50.96	ug/Kg	98
100) 1,2,4-Trichlorobenzene	14.589	180	491669	54.68	ug/Kg	98
101) Naphthalene	14.875	128	1197058	53.37	ug/Kg	97
102) 1,2,3-Trichlorobenzene	15.039	180	474483	53.44	ug/Kg	98
104) Ethanol	3.572	45	60610	845.04	ug/Kg	91
105) Acrolein	4.016	56	252762	211.65	ug/Kg	97
106) Tert butyl alcohol	4.709	59	328013	442.76	ug/Kg	95
107) Isobutyl alcohol	6.893	42	156714	862.79	ug/Kg	90
108) Tert Amyl Alcohol	7.003	59	277685	430.94	ug/Kg	95
109) 1,4-Dioxane	8.110	88	69899	898.73	ug/Kg	97

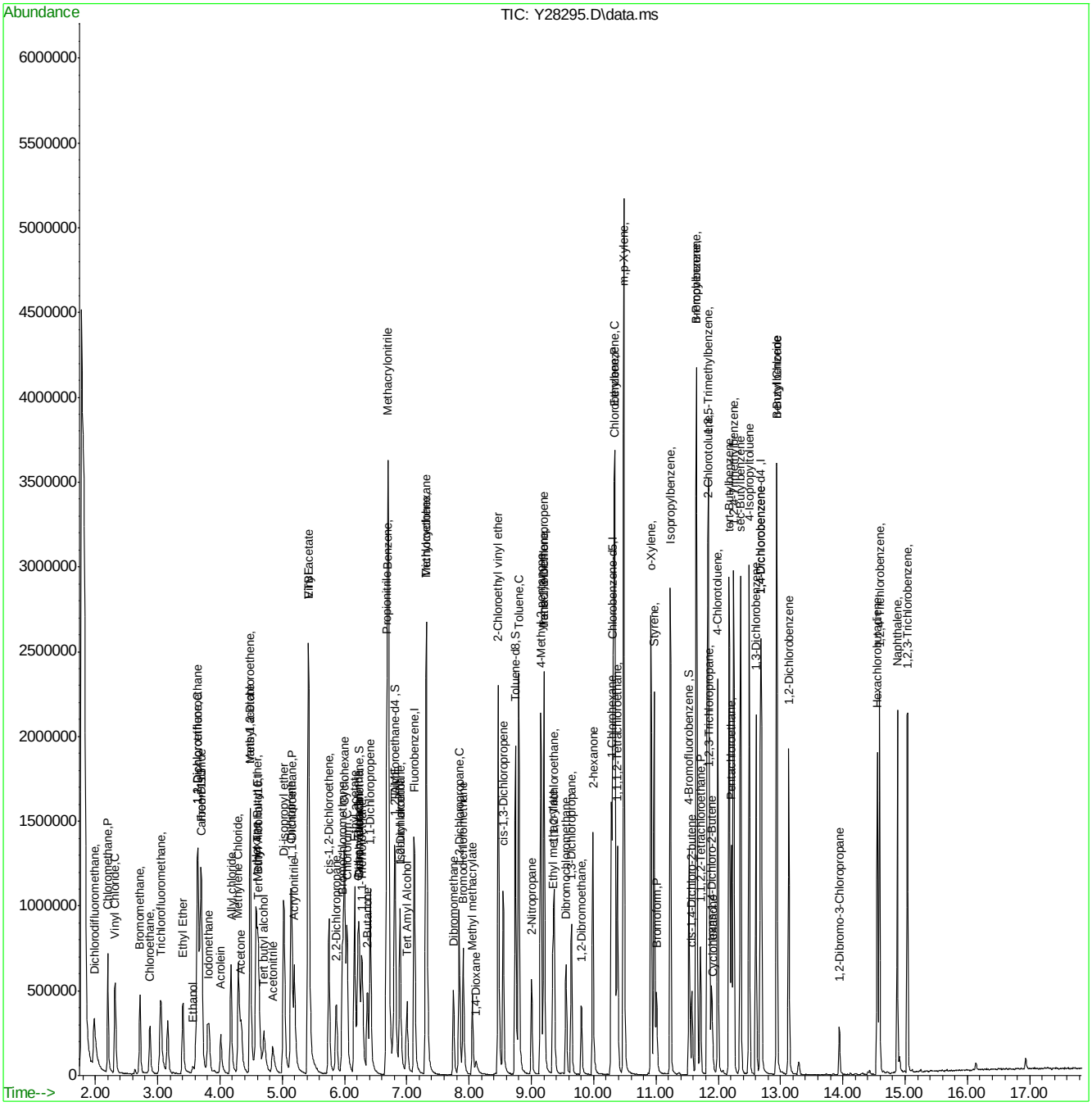
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28295.D
Acq On : 3 May 2016 10:35 am
Operator : ANGIED
Sample : BS MA Inst : MSVOA14
Misc : MS33772,VY1145,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 03 10:57:28 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration



SGS ACCUTEST FA33606

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/04/16 13:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976280.D
Acq On : 4 May 2016 9:27 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:53:00 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1232838	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	964016	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	533171	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.292	65	73663	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	323082	51.65	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.30%			
46) 1,2-Dichloroethane-d4	7.476	65	374882	49.55	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.10%			
57) Toluene-d8	9.301	98	1243778	49.04	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.08%			
79) 4-Bromofluorobenzene	12.051	95	490313	50.84	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.68%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	195037	25.70	ug/L	98
3) Chloromethane	2.889	50	229797	28.29	ug/L	99
4) Vinyl Chloride	3.035	62	244614	29.40	ug/L	98
5) 1,3-Butadiene	3.017	54	2613	0.42	ug/L #	65
6) Bromomethane	3.449	94	154057	25.51	ug/L	98
7) Chloroethane	3.607	64	123061	29.39	ug/L	97
8) Trichlorofluoromethane	3.832	101	325428m	31.53	ug/L	
9) Ethyl Ether	4.112	59	118462	24.85	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.355	67	220753	30.80	ug/L	96
11) 1,1-Dichloroethene	4.391	61	263064	29.47	ug/L	99
12) Freon 113	4.464	101	169531	27.47	ug/L	97
13) Carbon Disulfide	4.471	76	563300	30.31	ug/L	94
14) Iodomethane	4.580	142	271042	27.48	ug/L	99
15) Allyl chloride	4.915	41	207682	25.17	ug/L	93
16) Methylene Chloride	5.036	49	223423	27.66	ug/L	97
17) Acetone	5.067	58	45165	122.16	ug/L	93
18) Methyl acetate	5.188	74	80130	111.30	ug/L #	90
19) trans-1,2-Dichloroethene	5.225	61	243226	29.67	ug/L	98
20) Hexane	5.292	56	146480	27.85	ug/L	99
21) Methyl Tert Butyl Ether	5.328	73	397501	24.33	ug/L	91
22) Acetonitrile	5.584	40	55122	236.18	ug/L	90
23) Di-isopropyl ether	5.712	45	486007	25.98	ug/L	97
24) Chloroprene	5.870	53	224807	25.51	ug/L	99
25) 1,1-Dichloroethane	5.894	63	307250	28.07	ug/L	99
26) Acrylonitrile	5.918	53	193835	118.49	ug/L	94
27) ETBE	6.113	59	465977	24.88	ug/L	98
28) Vinyl acetate	6.101	43	1205354	127.22	ug/L	97
29) cis-1,2-Dichloroethene	6.466	96	175680	25.00	ug/L	97
30) 2,2-Dichloropropane	6.606	77	263614	30.86	ug/L	99
31) Bromochloromethane	6.685	128	77246	24.31	ug/L	96
32) Cyclohexane	6.734	56	286293	27.82	ug/L	93
33) Chloroform	6.734	83	325522	26.79	ug/L	95
34) Ethyl acetate	6.801	43	445941	117.06	ug/L	98

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976280.D
Acq On : 4 May 2016 9:27 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:53:00 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.916	42	24731	22.08	ug/L	#	80
37)	Carbon Tetrachloride	6.928	117	268776m	31.82	ug/L		
38)	1,1,1-Trichloroethane	6.995	97	290796	27.99	ug/L		97
39)	2-Butanone	7.020	43	189273	118.86	ug/L		99
40)	1,1-Dichloropropene	7.099	75	238301	28.40	ug/L		97
41)	tert-Butyl Formate	7.184	59	1008483	264.07	ug/L		95
42)	Propionitrile	7.330	54	125539	222.21	ug/L		93
43)	Methacrylonitrile	7.354	41	578279	219.96	ug/L		94
44)	Benzene	7.354	78	688740	26.97	ug/L		98
45)	TAME	7.427	73	393949	23.30	ug/L		95
47)	1,2-Dichloroethane	7.543	62	219712	24.58	ug/L		99
48)	Trichloroethene	7.932	95	176790	26.71	ug/L		97
49)	Methylcyclohexane	7.950	83	322129	28.97	ug/L		97
50)	Dibromomethane	8.358	93	90562	24.52	ug/L		98
51)	1,2-Dichloropropane	8.449	63	161932	25.24	ug/L		95
52)	Bromodichloromethane	8.492	83	222428	27.04	ug/L		97
53)	Methyl methacrylate	8.589	41	78904	23.26	ug/L		97
54)	2-Chloroethyl vinyl ether	9.003	63	406170	124.65	ug/L		99
55)	cis-1,3-Dichloropropene	9.106	75	258454	26.26	ug/L		97
58)	Toluene	9.350	91	734564	26.31	ug/L		98
59)	2-Nitropropane	9.556	41	121986	109.72	ug/L		99
60)	4-Methyl-2-pentanone	9.672	43	462820	116.02	ug/L		97
61)	trans-1,3-Dichloropropene	9.733	75	230285	26.26	ug/L		93
62)	Tetrachloroethene	9.757	166	196278	26.30	ug/L		98
63)	Ethyl methacrylate	9.836	69	122882	19.27	ug/L		95
64)	1,1,2-Trichloroethane	9.903	83	113639	24.95	ug/L		94
65)	Dibromochloromethane	10.098	129	153970	26.60	ug/L		98
66)	1,3-Dichloropropane	10.183	76	213574	22.95	ug/L		96
67)	1,2-Dibromoethane	10.359	107	123561	23.94	ug/L		99
68)	2-hexanone	10.487	43	314291	119.15	ug/L		96
69)	1-Chlorohexane	10.797	91	230088	28.10	ug/L		98
70)	Ethylbenzene	10.858	91	891222	27.99	ug/L		100
71)	Chlorobenzene	10.864	112	499098	26.88	ug/L		97
72)	1,1,1,2-Tetrachloroethane	10.913	131	166097	27.50	ug/L		97
73)	m,p-Xylene	10.998	91	1364186	53.28	ug/L		99
74)	o-Xylene	11.436	91	674845	27.43	ug/L		98
75)	Styrene	11.485	104	477539	24.16	ug/L		98
76)	Bromoform	11.546	173	93253	25.64	ug/L		99
77)	Isopropylbenzene	11.740	105	821377	28.90	ug/L		99
80)	cis-1,4-Dichloro-2-butene	12.087	53	37744	21.78	ug/L		96
81)	n-Propylbenzene	12.160	91	1025572	30.32	ug/L		100
82)	Bromobenzene	12.185	156	207927	26.10	ug/L		97
83)	1,1,2,2-Tetrachloroethane	12.221	83	149738	23.29	ug/L		97
84)	1,3,5-Trimethylbenzene	12.343	105	731424	28.57	ug/L		99
85)	2-Chlorotoluene	12.349	91	706020	28.43	ug/L		99
86)	trans-1,4-Dichloro-2-B...	12.404	53	34529	21.35	ug/L	#	80
87)	1,2,3-Trichloropropane	12.385	110	40360	24.63	ug/L		96
88)	Cyclohexanone	12.446	55	100235	972.86	ug/L		96
89)	4-Chlorotoluene	12.519	91	630346	28.35	ug/L		99
90)	a-Methyl Styrene	12.750	118	6772	0.93	ug/L	#	1

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976280.D
Acq On : 4 May 2016 9:27 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:53:00 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.683	91	414270	27.70	ug/L		95
92)	1,2,4-Trimethylbenzene	12.750	105	722436	28.26	ug/L		98
93)	Pentachloroethane	12.738	167	125023	25.63	ug/L		98
94)	sec-Butylbenzene	12.866	105	916377	29.65	ug/L		98
95)	4-Isopropyltoluene	13.000	119	746557	28.79	ug/L		99
96)	1,3-Dichlorobenzene	13.134	146	383989	27.18	ug/L		95
97)	1,4-Dichlorobenzene	13.219	146	386969	25.81	ug/L		95
98)	n-Butylbenzene	13.432	92	427093	28.57	ug/L		98
99)	Benzyl Chloride	13.450	126	51362	24.12	ug/L	#	80
100)	1,2-Dichlorobenzene	13.645	146	345177	25.53	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.381	75	20324	20.86	ug/L		93
102)	Hexachlorobutadiene	14.928	225	169718	28.10	ug/L		98
103)	1,2,4-Trichlorobenzene	14.971	180	239168	24.23	ug/L		97
104)	Naphthalene	15.257	128	346179	20.90	ug/L		98
105)	1,2,3-Trichlorobenzene	15.427	180	204640	23.39	ug/L		95
107)	Ethanol	4.282	45	20387m	598.74	ug/L		
108)	acrolein	4.750	56	78691	91.37	ug/L		92
109)	Tert Butyl Alcohol	5.371	59	86512	242.29	ug/L		88
110)	tert Amyl alcohol	7.567	59	62725	250.45	ug/L		97
111)	Isobutyl alcohol	7.445	42	58504	415.64	ug/L	#	91
112)	1,4-Dioxane	8.674	88	19251	658.15	ug/L		87
113)	3,3-Dimethyl-1-butanol	10.432	57	344420	1122.58	ug/L		97

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

7.3.2

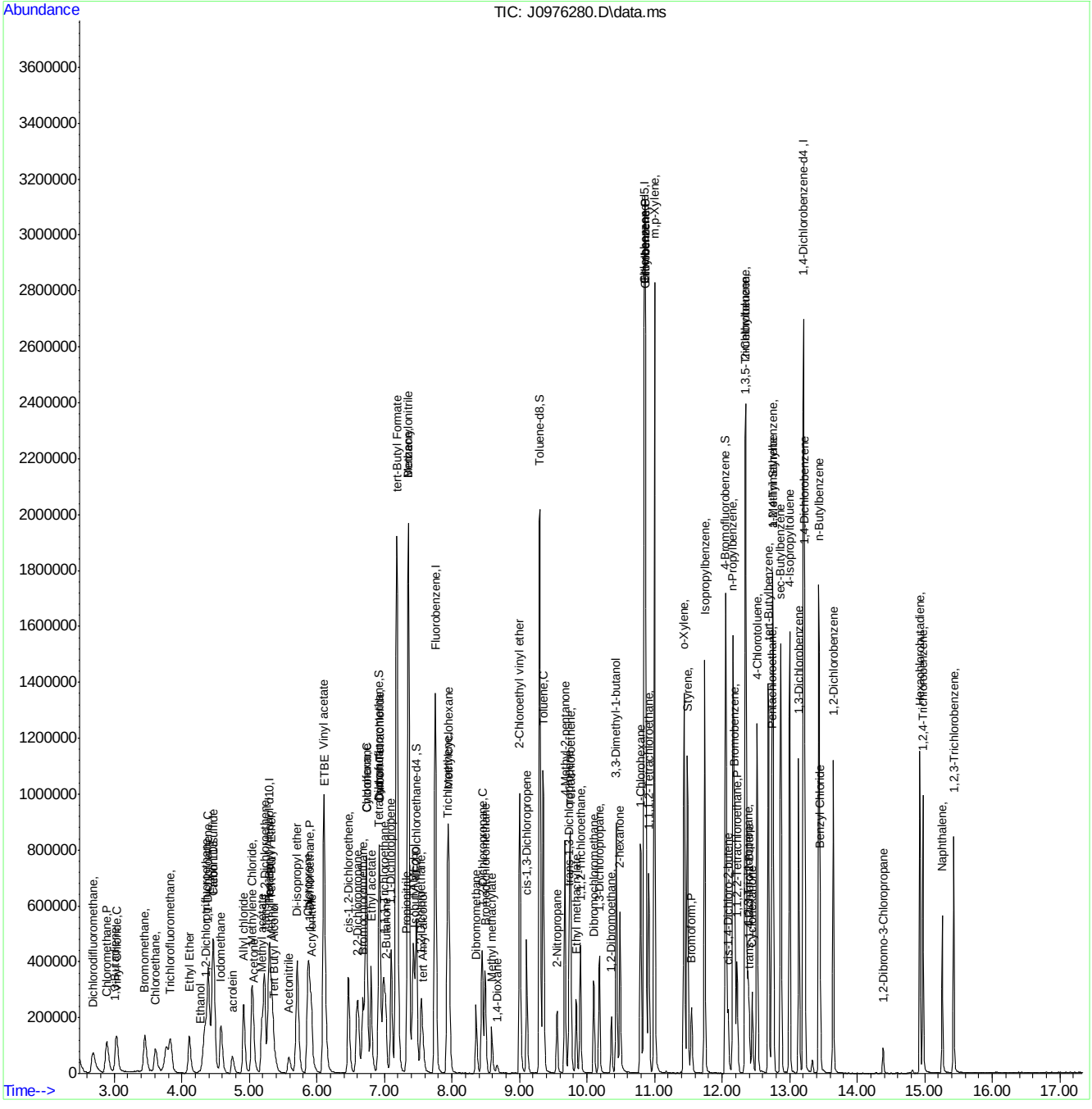
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976280.D
Acq On : 4 May 2016 9:27 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:53:00 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



MSJ031516.M Wed May 04 12:51:56 2016 Page: 4

SGS ACCUTEST FA33606

Manual Integration Approval Summary

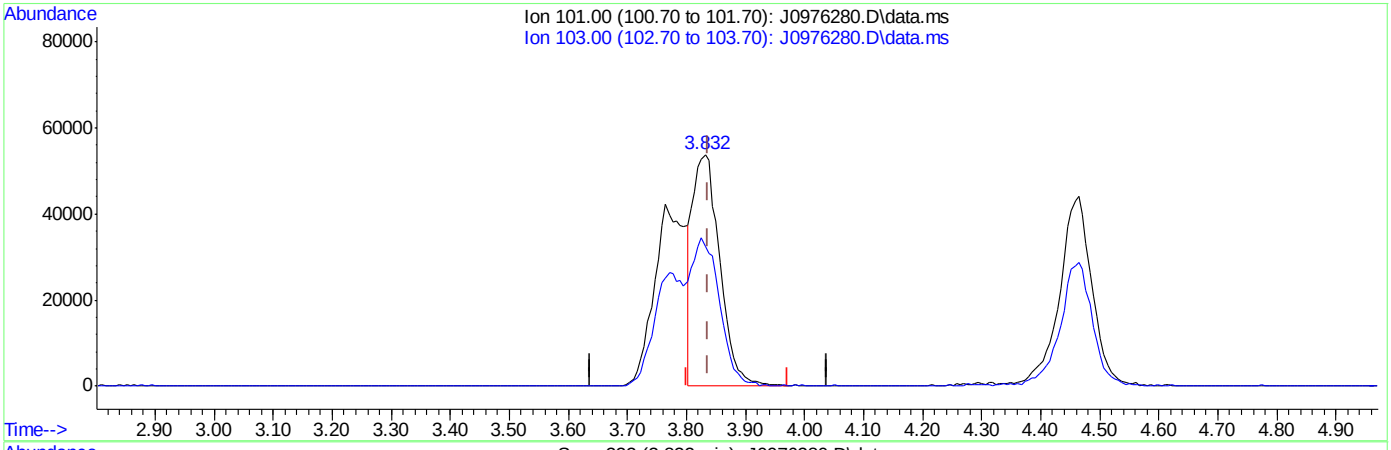
Sample Number:	VJ5285-BS	**Method:**	SW846 8260C
Lab FileID:	J0976280.D	**Analyst approved:**	05/04/16 12:56 Darshna Patel
Injection Time:	05/04/16 09:27	**Supervisor approved:**	05/04/16 13:59 Juan Garcia

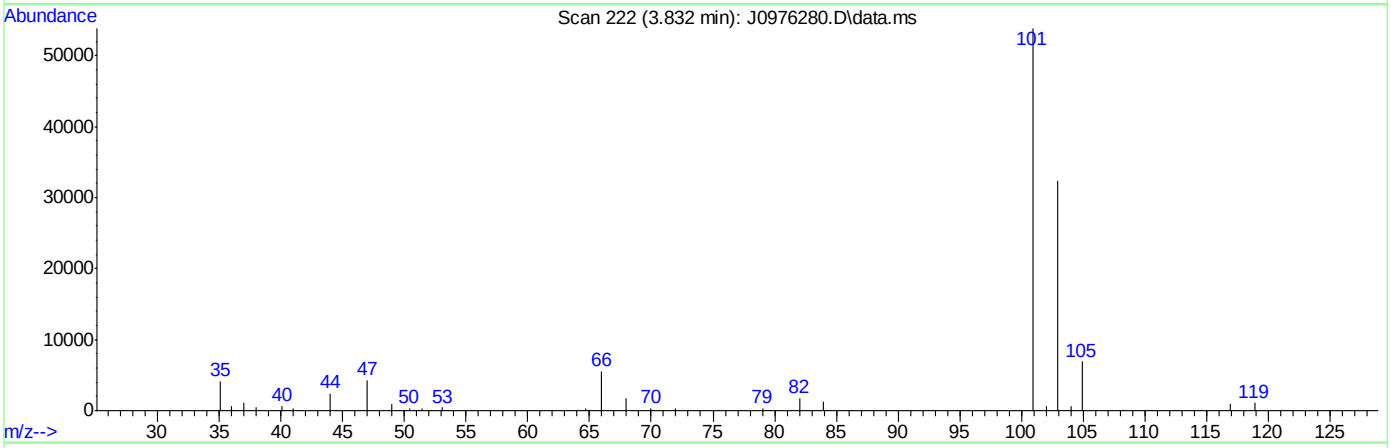
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976280.D
Acq On : 4 May 2016 9:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:52:28 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976280.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.006) 16.80ug/L

response 173339

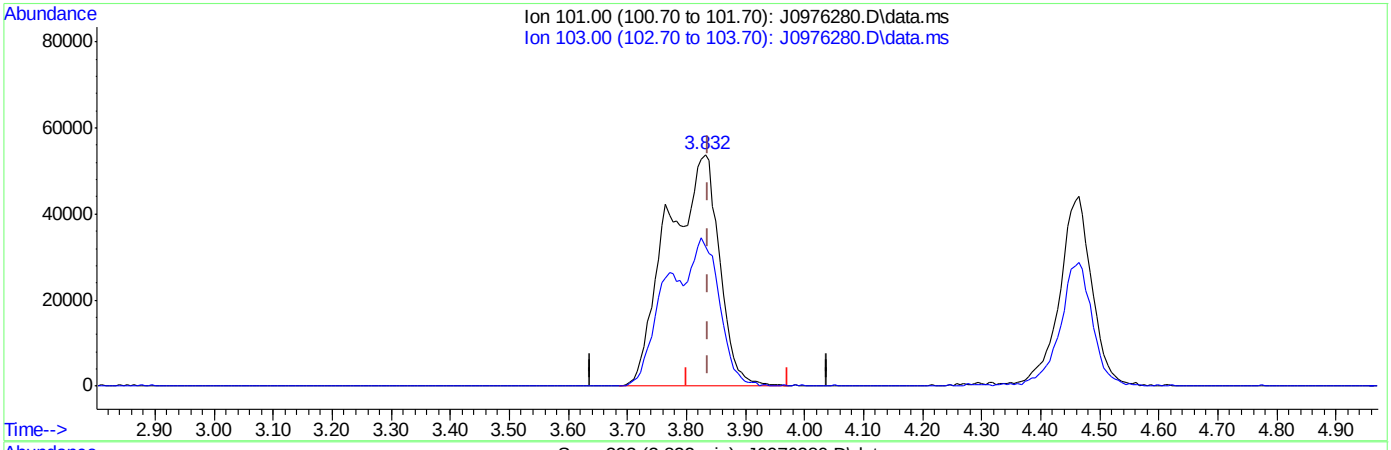
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.18
0.00	0.00	0.00
0.00	0.00	0.00

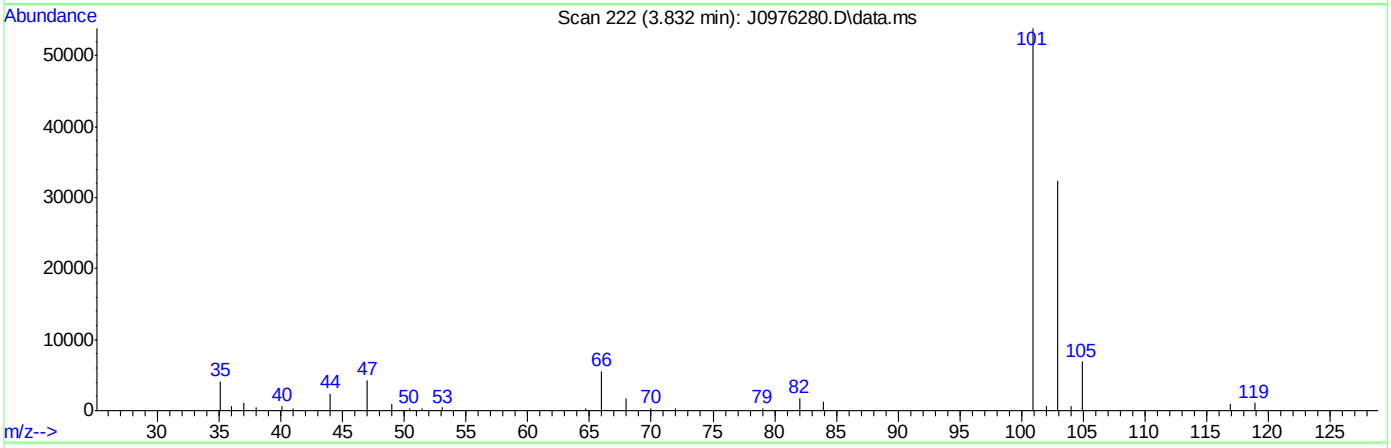
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976280.D
Acq On : 4 May 2016 9:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:52:28 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976280.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.006) 31.53ug/L m

response 325428

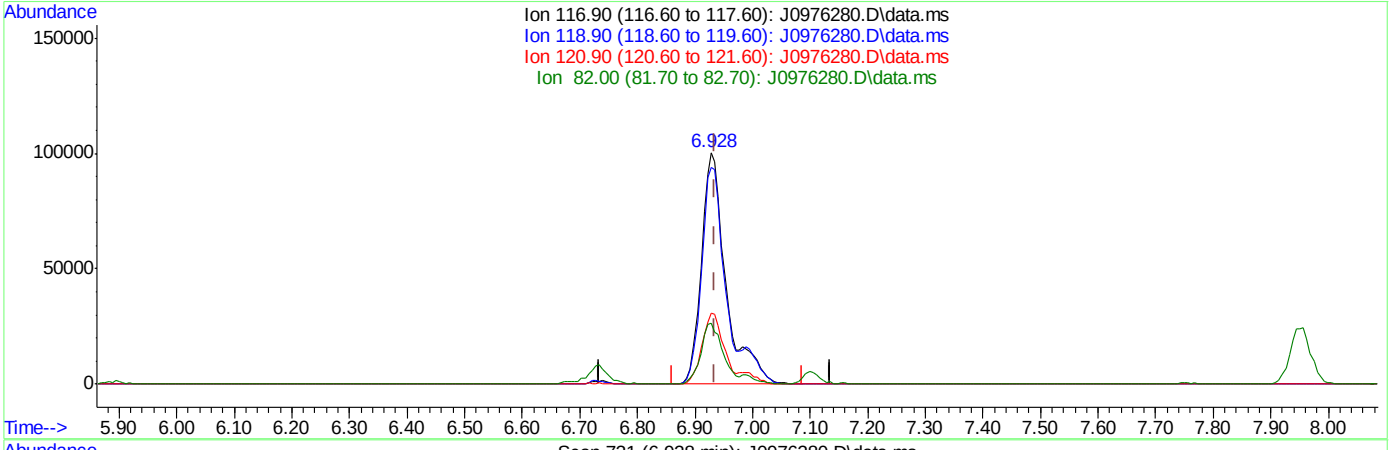
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.18
0.00	0.00	0.00
0.00	0.00	0.00

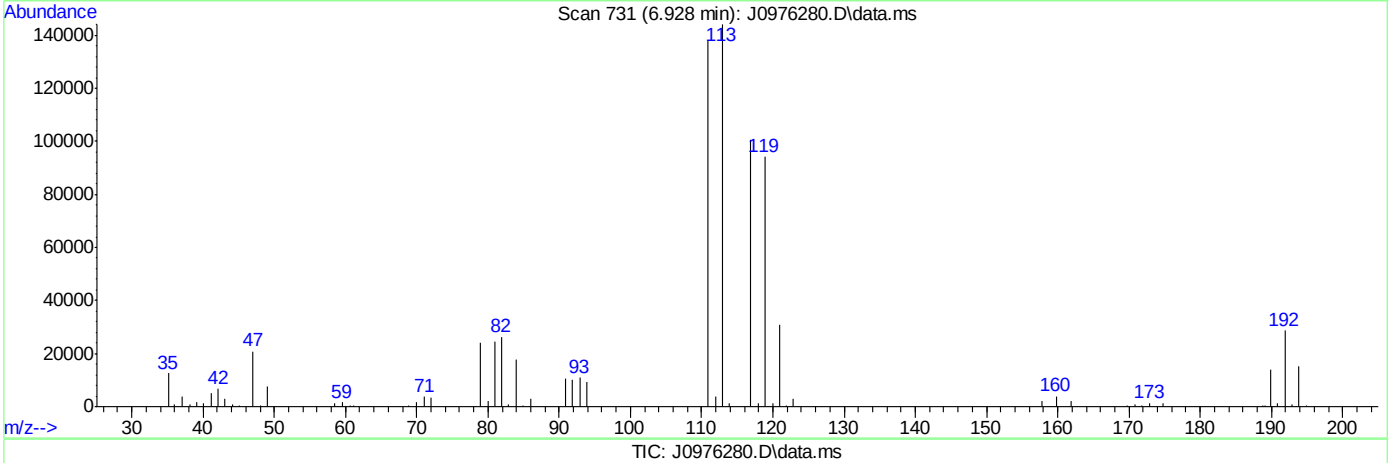
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976280.D
Acq On : 4 May 2016 9:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:52:28 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976280.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 35.72ug/L

response 301665

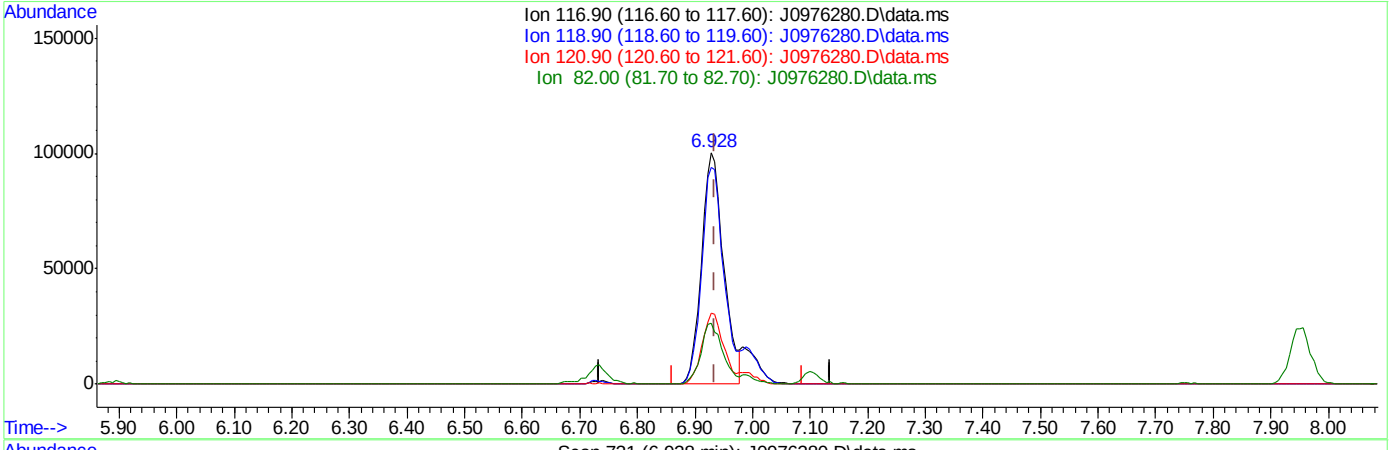
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	93.79
120.90	31.80	30.84
82.00	25.40	26.20

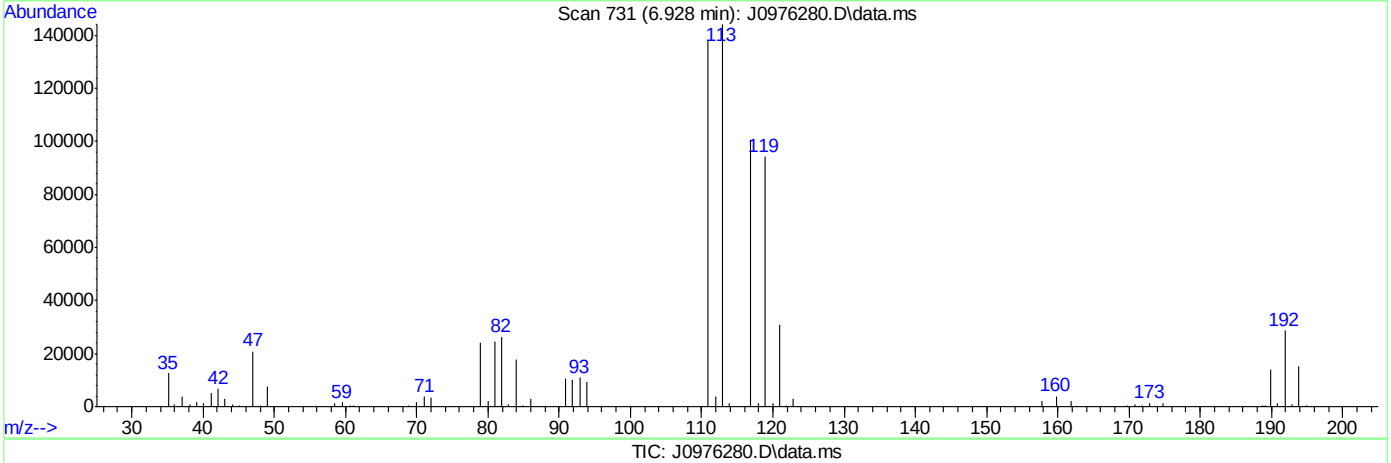
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976280.D
Acq On : 4 May 2016 9:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:52:28 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976280.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 31.82ug/L m

response 268776

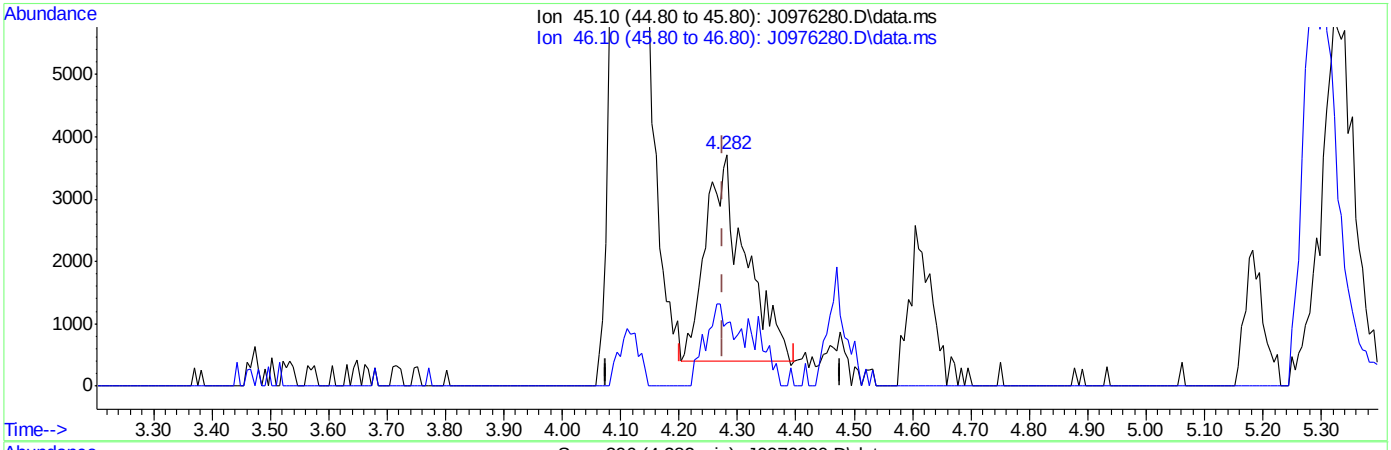
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	93.79
120.90	31.80	30.84
82.00	25.40	26.20

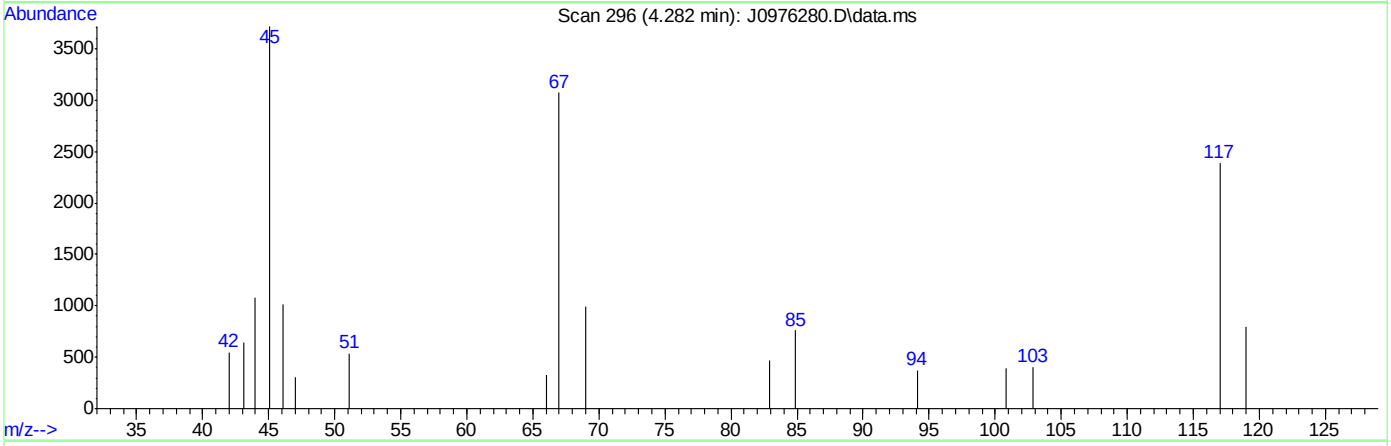
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976280.D
Acq On : 4 May 2016 9:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:52:28 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976280.D\data.ms

(107) Ethanol

4.282min (+0.006) 455.94ug/L

response 15786

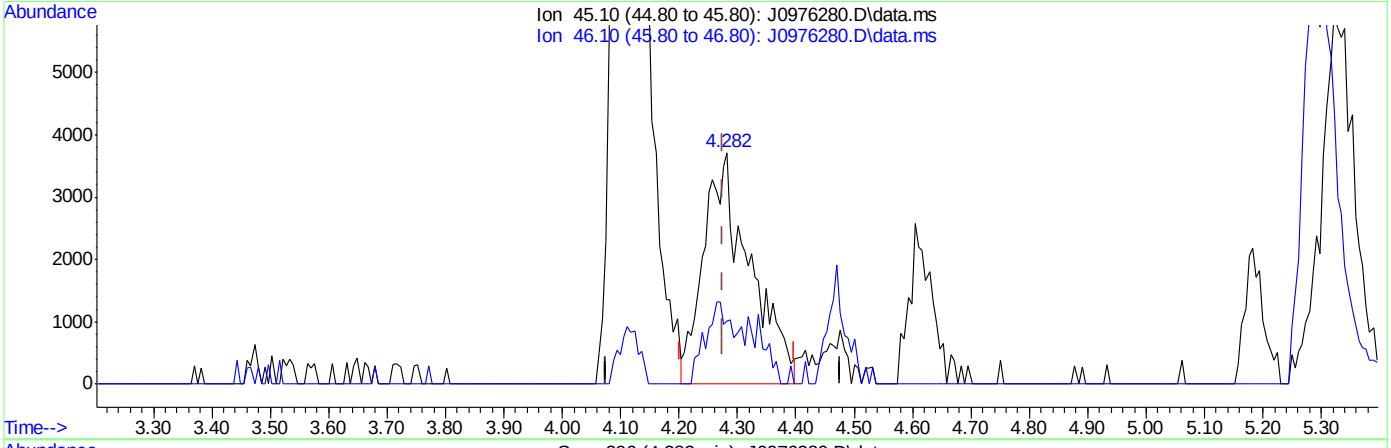
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	30.40
0.00	0.00	0.00
0.00	0.00	0.00

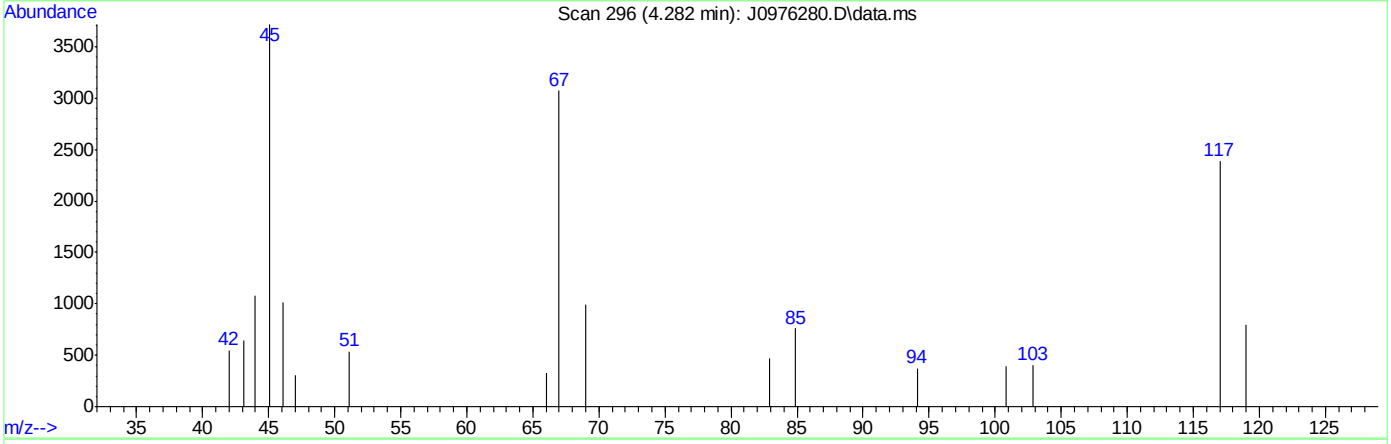
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976280.D
Acq On : 4 May 2016 9:27 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:52:28 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976280.D\data.ms

(107) Ethanol

4.282min (+0.006) 598.74ug/L m

response 20387

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	27.18
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28303.D
Acq On : 3 May 2016 2:06 pm
Operator : ANGIED
Sample : FA33606-4ms MA Inst : MSVOA14
Misc : MS33772,VY1145,4.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 03 14:31:38 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.121	96	1110556	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	760205	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.675	152	347818	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.639	65	126286	250.00	ug/Kg	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.239	113	257631	50.69	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.38%			
44) 1,2-Dichloroethane-d4	6.823	65	267931	49.88	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 99.76%			
55) Toluene-d8	8.745	98	1055228	49.27	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.54%			
77) 4-Bromofluorobenzene	11.532	174	254990	53.23	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 106.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.981	85	392417	41.95	ug/Kg	98
3) Chloromethane	2.206	50	498030	47.37	ug/Kg	99
4) Vinyl Chloride	2.321	62	467549	44.16	ug/Kg	98
5) Bromomethane	2.717	94	235513	46.98	ug/Kg	96
6) Chloroethane	2.881	64	202706	36.84	ug/Kg	96
7) Trichlorofluoromethane	3.051	101	409504	41.76	ug/Kg	100
8) Ethyl Ether	3.410	59	252374	49.27	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.641	67	369527	42.76	ug/Kg	96
10) 1,1-Dichloroethene	3.647	61	502183	42.76	ug/Kg	94
11) Freon 113	3.708	101	260408	36.12	ug/Kg	98
12) Carbon Disulfide	3.690	76	1014018	42.70	ug/Kg	98
13) Iodomethane	3.824	142	498110	47.99	ug/Kg	98
14) Allyl chloride	4.177	41	418274	41.88	ug/Kg	92
15) Methylene Chloride	4.298	49	416277	46.50	ug/Kg	91
16) Acetone	4.347	43	477164	299.74	ug/Kg	98
17) Methyl acetate	4.487	43	884623	264.40	ug/Kg	94
18) trans-1,2-Dichloroethene	4.487	61	428067	48.04	ug/Kg	96
19) Hexane	4.584	56	210362	36.75	ug/Kg	93
20) Methyl Tert Butyl Ether	4.615	73	861403	54.98	ug/Kg#	22
21) Acetonitrile	4.846	41	270760	482.35	ug/Kg	96
22) Di-isopropyl ether	5.028	45	942759	49.79	ug/Kg	90
23) Chloroprene	5.138	53	433354	39.86	ug/Kg	99
24) 1,1-Dichloroethane	5.162	63	562399	46.02	ug/Kg	98
25) Acrylonitrile	5.199	53	463031	245.92	ug/Kg	95
26) ETBE	5.430	59	956327	50.73	ug/Kg	96
27) Vinyl acetate	5.424	43	1480140	157.67	ug/Kg	92
28) cis-1,2-Dichloroethene	5.752	96	352265	45.42	ug/Kg	99
29) 2,2-Dichloropropane	5.868	77	239963	50.88	ug/Kg	93
30) Bromochloromethane	5.965	128	152000	47.55	ug/Kg#	86
31) Cyclohexane	6.002	84	456033	37.05	ug/Kg	92
32) Chloroform	6.044	83	565611	44.92	ug/Kg	97
33) Ethyl acetate	6.166	43	1050258	243.76	ug/Kg	94
34) Tetrahydrofuran	6.239	42	74503	50.76	ug/Kg	90
36) Carbon Tetrachloride	6.215	117	345653	46.17	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28303.D
Acq On : 3 May 2016 2:06 pm
Operator : ANGIED
Sample : FA33606-4ms MA Inst : MSVOA14
Misc : MS33772,VY1145,4.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 03 14:31:38 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.282	97	398779	43.83	ug/Kg	96
38) 2-Butanone	6.373	43	584739	246.26	ug/Kg	93
39) 1,1-Dichloropropene	6.415	75	431211	45.12	ug/Kg	97
40) Propionitrile	6.677	54	366649	481.51	ug/Kg	95
41) Methacrylonitrile	6.707	41	1330845	488.87	ug/Kg	94
42) Benzene	6.683	78	1283310	46.62	ug/Kg	96
43) TAME	6.805	73	897886	50.92	ug/Kg	97
45) 1,2-Dichloroethane	6.896	62	375934	49.36	ug/Kg	96
46) Trichloroethene	7.310	95	327443	45.27	ug/Kg	98
47) Methylcyclohexane	7.316	83	467253	36.21	ug/Kg	98
48) Dibromomethane	7.748	93	165784	48.22	ug/Kg	97
49) 1,2-Dichloropropane	7.845	63	328923	47.72	ug/Kg	97
50) Bromodichloromethane	7.912	83	389340	49.51	ug/Kg	96
51) Methyl methacrylate	8.052	41	203784	53.41	ug/Kg	95
52) 2-Chloroethyl vinyl ether	8.472	63	796307	256.25	ug/Kg	95
53) cis-1,3-Dichloropropene	8.551	75	504230	50.00	ug/Kg	99
56) Toluene	8.800	91	1331741	48.06	ug/Kg	99
57) 2-Nitropropane	9.007	41	281318	259.20	ug/Kg	94
58) 4-Methyl-2-pentanone	9.153	43	1137541	255.19	ug/Kg	93
59) trans-1,3-Dichloropropene	9.202	75	409222	52.32	ug/Kg	98
60) Tetrachloroethene	9.202	166	289036	47.99	ug/Kg	98
61) Ethyl methacrylate	9.348	69	319635	48.08	ug/Kg	91
62) 1,1,2-Trichloroethane	9.366	83	212289	48.67	ug/Kg	95
63) Dibromochloromethane	9.561	129	259632	50.48	ug/Kg	99
64) 1,3-Dichloropropane	9.646	76	442622	48.95	ug/Kg	99
65) 1,2-Dibromoethane	9.804	107	235409	49.35	ug/Kg	96
66) 2-hexanone	9.992	43	785704	250.61	ug/Kg	91
67) 1-Chlorohexane	10.284	91	390516	45.81	ug/Kg	94
68) Ethylbenzene	10.339	91	1410229	49.54	ug/Kg	95
69) Chlorobenzene	10.327	112	823282	49.03	ug/Kg	95
70) 1,1,1,2-Tetrachloroethane	10.382	131	282091	50.62	ug/Kg	96
71) m,p-Xylene	10.485	91	2124212	98.70	ug/Kg	94
72) o-Xylene	10.923	91	1133216	51.18	ug/Kg	98
73) Styrene	10.972	104	851007	52.63	ug/Kg	99
74) Bromoform	11.014	173	140208	52.95	ug/Kg	99
75) Isopropylbenzene	11.233	105	1350249	50.52	ug/Kg	95
78) cis-1,4-Dichloro-2-butene	11.580	53	80396	45.20	ug/Kg	93
79) n-Propylbenzene	11.653	91	1577566	51.10	ug/Kg	93
80) Bromobenzene	11.647	156	314991	51.89	ug/Kg	95
81) 1,1,2,2-Tetrachloroethane	11.714	83	312130	48.85	ug/Kg	93
82) 1,3,5-Trimethylbenzene	11.842	105	1213322	53.09	ug/Kg	95
83) 2-Chlorotoluene	11.830	91	1091195	51.41	ug/Kg	97
84) trans-1,4-Dichloro-2-B...	11.890	53	80683	48.01	ug/Kg	89
85) 1,2,3-Trichloropropane	11.866	110	86772	49.07	ug/Kg	93
86) Cyclohexanone	11.915	55	65000	219.01	ug/Kg	95
87) 4-Chlorotoluene	11.994	91	991635	53.15	ug/Kg	96
88) tert-Butylbenzene	12.176	91	693502	49.34	ug/Kg	96
89) 1,2,4-Trimethylbenzene	12.249	105	1187117	53.87	ug/Kg	97
90) Pentachloroethane	12.213	167	183148	53.23	ug/Kg	97
91) sec-Butylbenzene	12.359	105	1484137	51.38	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28303.D
Acq On : 3 May 2016 2:06 pm
Operator : ANGIED
Sample : FA33606-4ms MA Inst : MSVOA14
Misc : MS33772,VY1145,4.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 03 14:31:38 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

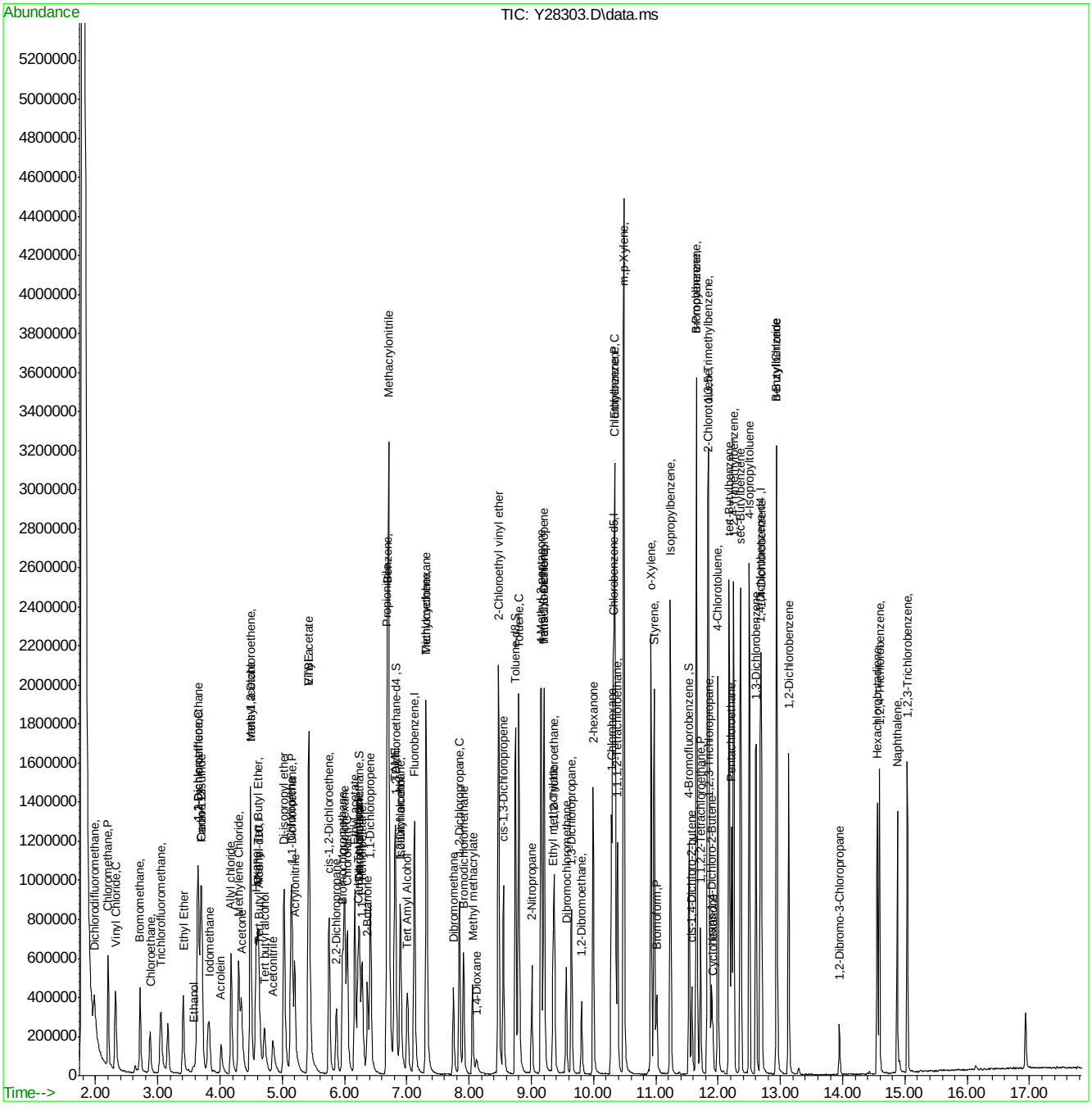
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.499	119	1234444	52.96	ug/Kg	99
93) 1,3-Dichlorobenzene	12.608	146	590473	51.41	ug/Kg	99
94) 1,4-Dichlorobenzene	12.694	146	603703	51.88	ug/Kg	98
95) n-Butylbenzene	12.937	92	680189	49.55	ug/Kg	92
96) Benzyl Chloride	12.937	126	114608	47.91	ug/Kg#	71
97) 1,2-Dichlorobenzene	13.132	146	558483	50.76	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.947	75	58281	47.28	ug/Kg	98
99) Hexachlorobutadiene	14.555	225	178639	44.04	ug/Kg	96
100) 1,2,4-Trichlorobenzene	14.592	180	349478	48.27	ug/Kg	99
101) Naphthalene	14.877	128	790953	43.23	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.036	180	323412	45.24	ug/Kg	96
104) Ethanol	3.580	45	58710	873.55	ug/Kg	84
105) Acrolein	4.012	56	169045	151.06	ug/Kg	97
106) Tert butyl alcohol	4.712	59	316638	456.13	ug/Kg	96
107) Isobutyl alcohol	6.902	42	148904	874.88	ug/Kg	97
108) Tert Amyl Alcohol	7.012	59	271166	449.10	ug/Kg	88
109) 1,4-Dioxane	8.119	88	61852	848.70	ug/Kg	91

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28303.D
Acq On : 3 May 2016 2:06 pm
Operator : ANGIED
Sample : FA33606-4ms MA Inst : MSVOA14
Misc : MS33772,VY1145,4.00,,,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 03 14:31:38 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration



042516APP9-Y.m Wed May 04 09:48:58 2016 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28304.D
Acq On : 3 May 2016 2:32 pm
Operator : ANGIED
Sample : FA33606-4msd MA Inst : MSVOA14
Misc : MS33772,VY1145,4.17,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 03 14:50:48 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.124	96	1077907	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.312	117	701608	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.678	152	327940	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.624	65	101971	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	247996	50.27	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.54%			
44) 1,2-Dichloroethane-d4	6.820	65	256392	49.18	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 98.36%			
55) Toluene-d8	8.742	98	1020202	51.61	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 103.22%			
77) 4-Bromofluorobenzene	11.535	174	233691	51.75	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 103.50%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.984	85	377409	41.57	ug/Kg	97
3) Chloromethane	2.203	50	497965	48.80	ug/Kg	97
4) Vinyl Chloride	2.318	62	461823	44.94	ug/Kg	99
5) Bromomethane	2.720	94	230373	47.35	ug/Kg	96
6) Chloroethane	2.878	64	235771	44.15	ug/Kg	96
7) Trichlorofluoromethane	3.054	101	412867	43.38	ug/Kg	99
8) Ethyl Ether	3.407	59	235447	47.36	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.644	67	357096	42.57	ug/Kg	95
10) 1,1-Dichloroethene	3.650	61	476796	41.83	ug/Kg	91
11) Freon 113	3.705	101	257297	36.77	ug/Kg	95
12) Carbon Disulfide	3.687	76	1010289	43.83	ug/Kg	100
13) Iodomethane	3.815	142	484432	48.09	ug/Kg	99
14) Allyl chloride	4.180	41	403148	41.59	ug/Kg	91
15) Methylene Chloride	4.295	49	409348	47.14	ug/Kg	91
16) Acetone	4.344	43	440342	284.99	ug/Kg	94
17) Methyl acetate	4.484	43	854968	263.27	ug/Kg	94
18) trans-1,2-Dichloroethene	4.490	61	424653	49.10	ug/Kg	95
19) Hexane	4.581	56	195740	35.23	ug/Kg	93
20) Methyl Tert Butyl Ether	4.612	73	811015	53.34	ug/Kg#	25
21) Acetonitrile	4.849	41	255007	468.05	ug/Kg	95
22) Di-isopropyl ether	5.025	45	925509	50.36	ug/Kg	93
23) Chloroprene	5.141	53	434587	41.18	ug/Kg	98
24) 1,1-Dichloroethane	5.159	63	571773	48.20	ug/Kg	99
25) Acrylonitrile	5.196	53	426985	233.64	ug/Kg	97
26) ETBE	5.427	59	916013	50.06	ug/Kg	97
27) Vinyl acetate	5.421	43	953444	104.64	ug/Kg	94
28) cis-1,2-Dichloroethene	5.749	96	340500	45.23	ug/Kg	96
29) 2,2-Dichloropropane	5.871	77	249764	54.56	ug/Kg	93
30) Bromochloromethane	5.968	128	148189	47.76	ug/Kg#	83
31) Cyclohexane	5.999	84	440305	36.85	ug/Kg	94
32) Chloroform	6.041	83	565232	46.25	ug/Kg	99
33) Ethyl acetate	6.163	43	915311	218.87	ug/Kg	94
34) Tetrahydrofuran	6.236	42	64236	45.01	ug/Kg	90
36) Carbon Tetrachloride	6.218	117	329051	45.28	ug/Kg	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28304.D
Acq On : 3 May 2016 2:32 pm
Operator : ANGIED
Sample : FA33606-4msd MA Inst : MSVOA14
Misc : MS33772,VY1145,4.17,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 03 14:50:48 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.285	97	411432	46.59	ug/Kg	98
38) 2-Butanone	6.370	43	525282	227.92	ug/Kg	92
39) 1,1-Dichloropropene	6.418	75	418797	45.15	ug/Kg	95
40) Propionitrile	6.674	54	328793	444.88	ug/Kg	99
41) Methacrylonitrile	6.704	41	1210627	458.18	ug/Kg	93
42) Benzene	6.686	78	1267618	47.45	ug/Kg	98
43) TAME	6.808	73	837662	48.94	ug/Kg	97
45) 1,2-Dichloroethane	6.893	62	360439	48.76	ug/Kg	96
46) Trichloroethene	7.313	95	321290	45.77	ug/Kg	94
47) Methylcyclohexane	7.313	83	451114	36.02	ug/Kg	97
48) Dibromomethane	7.751	93	161751	48.47	ug/Kg	93
49) 1,2-Dichloropropane	7.842	63	321374	48.04	ug/Kg	95
50) Bromodichloromethane	7.909	83	373865	48.98	ug/Kg	94
51) Methyl methacrylate	8.055	41	175431	47.37	ug/Kg	88
52) 2-Chloroethyl vinyl ether	8.469	63	723815	239.98	ug/Kg	95
53) cis-1,3-Dichloropropene	8.554	75	477388	48.77	ug/Kg	98
56) Toluene	8.797	91	1290118	50.45	ug/Kg	96
57) 2-Nitropropane	9.004	41	246442	246.03	ug/Kg	96
58) 4-Methyl-2-pentanone	9.156	43	996892	242.31	ug/Kg	92
59) trans-1,3-Dichloropropene	9.205	75	386165	53.50	ug/Kg	95
60) Tetrachloroethene	9.205	166	278264	50.06	ug/Kg	97
61) Ethyl methacrylate	9.351	69	279175	45.50	ug/Kg	91
62) 1,1,2-Trichloroethane	9.369	83	195895	48.66	ug/Kg	96
63) Dibromochloromethane	9.557	129	234695	49.44	ug/Kg	98
64) 1,3-Dichloropropane	9.643	76	410705	49.21	ug/Kg	98
65) 1,2-Dibromoethane	9.807	107	216804	49.24	ug/Kg	97
66) 2-hexanone	9.989	43	672211	232.31	ug/Kg	92
67) 1-Chlorohexane	10.287	91	352182	44.77	ug/Kg	90
68) Ethylbenzene	10.342	91	1346701	51.26	ug/Kg	96
69) Chlorobenzene	10.330	112	771211	49.77	ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.385	131	263330	51.20	ug/Kg	96
71) m,p-Xylene	10.482	91	2008599	101.41	ug/Kg	96
72) o-Xylene	10.920	91	1068012	52.26	ug/Kg	99
73) Styrene	10.975	104	765840	51.32	ug/Kg	98
74) Bromoform	11.011	173	122644	50.19	ug/Kg	98
75) Isopropylbenzene	11.230	105	1279629	51.88	ug/Kg	97
78) cis-1,4-Dichloro-2-butene	11.577	53	72037	42.96	ug/Kg	90
79) n-Propylbenzene	11.650	91	1450166	49.69	ug/Kg	97
80) Bromobenzene	11.650	156	279044	48.76	ug/Kg	97
81) 1,1,2,2-Tetrachloroethane	11.717	83	278742	46.27	ug/Kg	95
82) 1,3,5-Trimethylbenzene	11.845	105	1161154	53.89	ug/Kg	94
83) 2-Chlorotoluene	11.827	91	1042282	52.08	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.894	53	68655	43.33	ug/Kg	89
85) 1,2,3-Trichloropropane	11.863	110	76990	46.17	ug/Kg	92
86) Cyclohexanone	11.912	55	59187	211.51	ug/Kg	97
87) 4-Chlorotoluene	11.997	91	927156	52.70	ug/Kg	95
88) tert-Butylbenzene	12.173	91	659132	49.74	ug/Kg	99
89) 1,2,4-Trimethylbenzene	12.246	105	1126003	54.19	ug/Kg	96
90) Pentachloroethane	12.216	167	168638	51.99	ug/Kg	98
91) sec-Butylbenzene	12.362	105	1400343	51.42	ug/Kg	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28304.D
Acq On : 3 May 2016 2:32 pm
Operator : ANGIED
Sample : FA33606-4msd MA Inst : MSVOA14
Misc : MS33772,VY1145,4.17,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 03 14:50:48 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.502	119	1159313	52.75	ug/Kg	98
93) 1,3-Dichlorobenzene	12.605	146	548703	50.67	ug/Kg	99
94) 1,4-Dichlorobenzene	12.697	146	558087	50.87	ug/Kg	97
95) n-Butylbenzene	12.940	92	626594	48.36	ug/Kg	93
96) Benzyl Chloride	12.940	126	98285	43.58	ug/Kg#	79
97) 1,2-Dichlorobenzene	13.135	146	515736	49.72	ug/Kg	97
98) 1,2-Dibromo-3-Chloropr...	13.950	75	52361	45.05	ug/Kg	95
99) Hexachlorobutadiene	14.558	225	153853	39.92	ug/Kg	96
100) 1,2,4-Trichlorobenzene	14.589	180	311393	45.61	ug/Kg	98
101) Naphthalene	14.874	128	693486	40.04	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.039	180	285738	42.39	ug/Kg	97
104) Ethanol	3.565	45	53957	994.27	ug/Kg	86
105) Acrolein	4.015	56	130345	144.25	ug/Kg	92
106) Tert butyl alcohol	4.709	59	275437	491.38	ug/Kg	86
107) Isobutyl alcohol	6.899	42	131304	955.43	ug/Kg	90
108) Tert Amyl Alcohol	7.008	59	236275	484.63	ug/Kg	94
109) 1,4-Dioxane	8.116	88	58245	989.78	ug/Kg	96

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

7.4.2

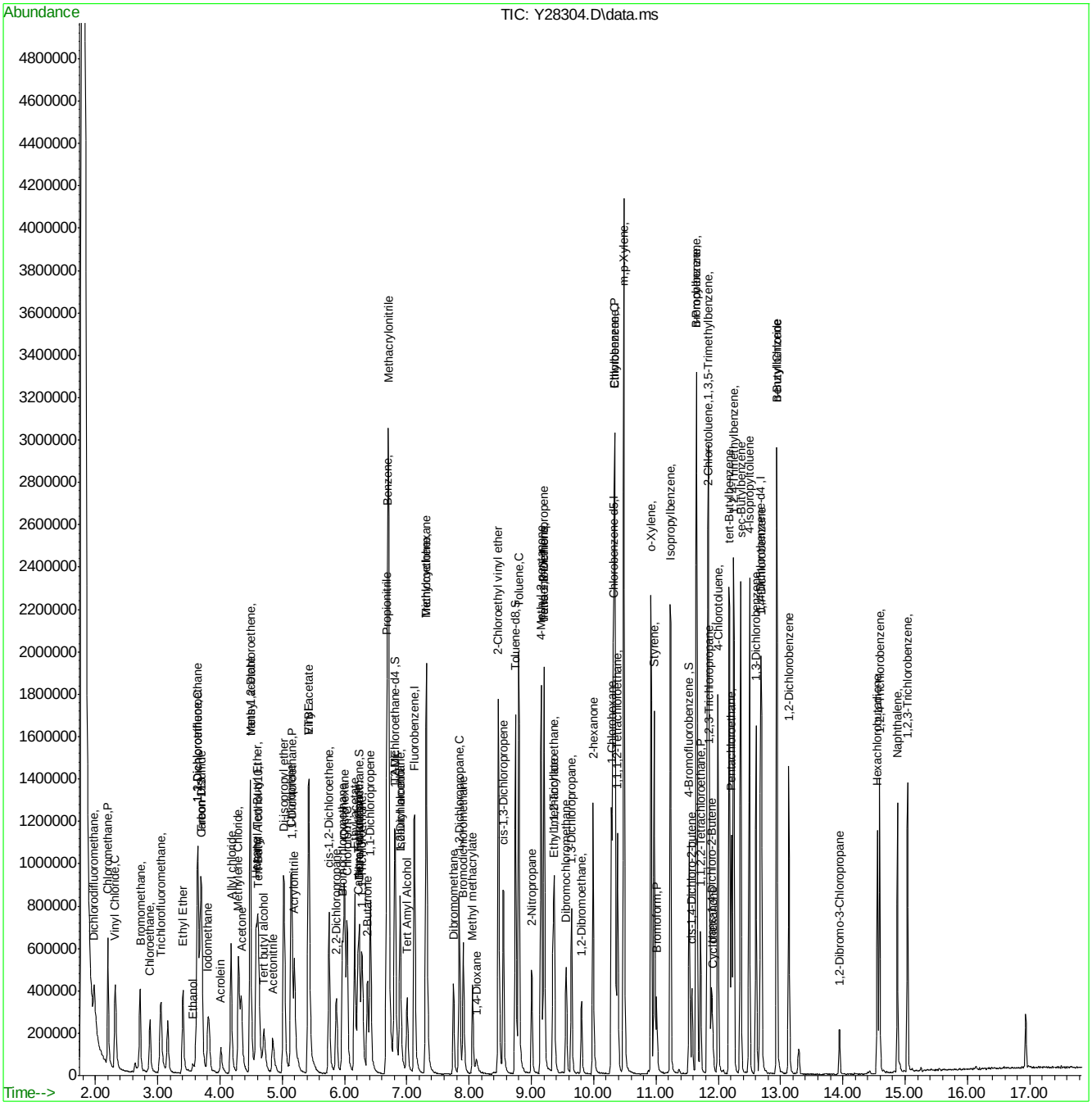
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28304.D
Acq On : 3 May 2016 2:32 pm
Operator : ANGIED
Sample : FA33606-4msd MA Inst : MSVOA14
Misc : MS33772,VY1145,4.17,,,5,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 03 14:50:48 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration



042516APP9-Y.m Wed May 04 09:49:01 2016 Page: 4

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/04/16 14:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976287.D
Acq On : 4 May 2016 12:10 pm
Operator : darshnap
Sample : fa33606-3ms ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:44:07 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1123865	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	886325	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	496914	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	62416	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	292857	51.35	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.70%			
46) 1,2-Dichloroethane-d4	7.476	65	343872	49.86	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.72%			
57) Toluene-d8	9.301	98	1137559	48.78	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 97.56%			
79) 4-Bromofluorobenzene	12.057	95	442303	49.21	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.688	85	170809	24.69	ug/L	97
3) Chloromethane	2.889	50	191906	25.92	ug/L	99
4) Vinyl Chloride	3.035	62	222257	29.31	ug/L	95
5) 1,3-Butadiene	3.035	54	13931	2.47	ug/L	95
6) Bromomethane	3.461	94	145639	26.54	ug/L	97
7) Chloroethane	3.613	64	114365	29.99	ug/L	95
8) Trichlorofluoromethane	3.838	101	297895m	31.66	ug/L	
9) Ethyl Ether	4.118	59	100122	23.04	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.361	67	189603	29.02	ug/L	98
11) 1,1-Dichloroethene	4.398	61	217264	26.70	ug/L	99
12) Freon 113	4.464	101	147824	26.27	ug/L	94
13) Carbon Disulfide	4.471	76	447857	26.43	ug/L	92
14) Iodomethane	4.580	142	221636	24.65	ug/L	99
15) Allyl chloride	4.921	41	173317	23.04	ug/L	92
16) Methylene Chloride	5.042	49	183595	24.91	ug/L	96
17) Acetone	5.067	58	35147	104.28	ug/L	95
18) Methyl acetate	5.194	74	66980	102.06	ug/L	100
19) trans-1,2-Dichloroethene	5.225	61	204257	27.33	ug/L	99
20) Hexane	5.298	56	135265	28.21	ug/L	96
21) Methyl Tert Butyl Ether	5.334	73	329942	22.15	ug/L	86
22) Acetonitrile	5.590	40	48944	229.99	ug/L	91
23) Di-isopropyl ether	5.712	45	398760	23.38	ug/L	94
24) Chloroprene	5.870	53	200021	24.90	ug/L	97
25) 1,1-Dichloroethane	5.894	63	262375	26.30	ug/L	98
26) Acrylonitrile	5.925	53	152465	102.23	ug/L	98
27) ETBE	6.113	59	385218	22.56	ug/L	98
28) Vinyl acetate	6.107	43	972418	112.59	ug/L	97
29) cis-1,2-Dichloroethene	6.472	96	148878	23.24	ug/L	91
30) 2,2-Dichloropropane	6.600	77	219445	28.18	ug/L	97
31) Bromochloromethane	6.685	128	68296	23.58	ug/L	97
32) Cyclohexane	6.734	56	244548	26.07	ug/L	95
33) Chloroform	6.734	83	283401	25.58	ug/L	98
34) Ethyl acetate	6.807	43	359322	103.47	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976287.D
Acq On : 4 May 2016 12:10 pm
Operator : darshnap
Sample : fa33606-3ms ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:44:07 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.922	42	18870	18.42	ug/L		97
37)	Carbon Tetrachloride	6.934	117	232302m	30.17	ug/L		
38)	1,1,1-Trichloroethane	6.995	97	252615	26.67	ug/L		94
39)	2-Butanone	7.026	43	155387	107.08	ug/L		93
40)	1,1-Dichloropropene	7.105	75	199753	26.11	ug/L		96
41)	tert-Butyl Formate	7.184	59	402193	115.44	ug/L	#	84
42)	Propionitrile	7.330	54	110883	215.29	ug/L		87
43)	Methacrylonitrile	7.354	41	499079	208.24	ug/L		94
44)	Benzene	7.354	78	600510	25.79	ug/L		97
45)	TAME	7.433	73	325797	21.14	ug/L		94
47)	1,2-Dichloroethane	7.549	62	187977	23.07	ug/L		96
48)	Trichloroethene	7.932	95	156809	25.99	ug/L		95
49)	Methylcyclohexane	7.956	83	278881	27.51	ug/L		97
50)	Dibromomethane	8.358	93	77209	22.93	ug/L		96
51)	1,2-Dichloropropane	8.449	63	139582	23.86	ug/L		91
52)	Bromodichloromethane	8.492	83	193522	25.81	ug/L		99
53)	Methyl methacrylate	8.589	41	67018	21.67	ug/L		94
55)	cis-1,3-Dichloropropene	9.112	75	199405	22.28	ug/L		96
58)	Toluene	9.356	91	634986	24.74	ug/L		99
59)	2-Nitropropane	9.556	41	97870	95.68	ug/L		98
60)	4-Methyl-2-pentanone	9.672	43	405419	110.54	ug/L		97
61)	trans-1,3-Dichloropropene	9.739	75	192374	23.85	ug/L		95
62)	Tetrachloroethene	9.757	166	166376	24.25	ug/L		98
63)	Ethyl methacrylate	9.842	69	107008	18.25	ug/L		97
64)	1,1,2-Trichloroethane	9.903	83	95918	22.90	ug/L		97
65)	Dibromochloromethane	10.104	129	122400	23.00	ug/L		95
66)	1,3-Dichloropropane	10.183	76	183011	21.39	ug/L		94
67)	1,2-Dibromoethane	10.366	107	106856	22.51	ug/L		93
68)	2-hexanone	10.487	43	280303	115.58	ug/L		95
69)	1-Chlorohexane	10.797	91	198841	26.41	ug/L		99
70)	Ethylbenzene	10.858	91	780197	26.66	ug/L		99
71)	Chlorobenzene	10.864	112	433325	25.38	ug/L		95
72)	1,1,1,2-Tetrachloroethane	10.913	131	148286	26.70	ug/L		98
73)	m,p-Xylene	10.998	91	1192482	50.41	ug/L		98
74)	o-Xylene	11.436	91	578354	25.57	ug/L		99
75)	Styrene	11.485	104	397155	21.83	ug/L		98
76)	Bromoform	11.546	173	70973	21.31	ug/L		96
77)	Isopropylbenzene	11.740	105	723936	27.70	ug/L		100
80)	cis-1,4-Dichloro-2-butene	12.087	53	28307	17.53	ug/L		96
81)	n-Propylbenzene	12.160	91	913579	28.98	ug/L		99
82)	Bromobenzene	12.185	156	187892	25.31	ug/L		99
83)	1,1,2,2-Tetrachloroethane	12.221	83	129942	21.69	ug/L		100
84)	1,3,5-Trimethylbenzene	12.343	105	637085	26.70	ug/L		99
85)	2-Chlorotoluene	12.349	91	625371	27.02	ug/L		98
86)	trans-1,4-Dichloro-2-B...	12.397	53	26489	17.61	ug/L	#	77
87)	1,2,3-Trichloropropane	12.385	110	35405	23.19	ug/L		98
88)	Cyclohexanone	12.452	55	11972	124.68	ug/L		87
89)	4-Chlorotoluene	12.519	91	553970	26.74	ug/L		99
90)	a-Methyl Styrene	12.750	118	5764	0.85	ug/L	#	1
91)	tert-Butylbenzene	12.683	91	363763	26.10	ug/L		97

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976287.D
Acq On : 4 May 2016 12:10 pm
Operator : darshnap
Sample : fa33606-3ms ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:44:07 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

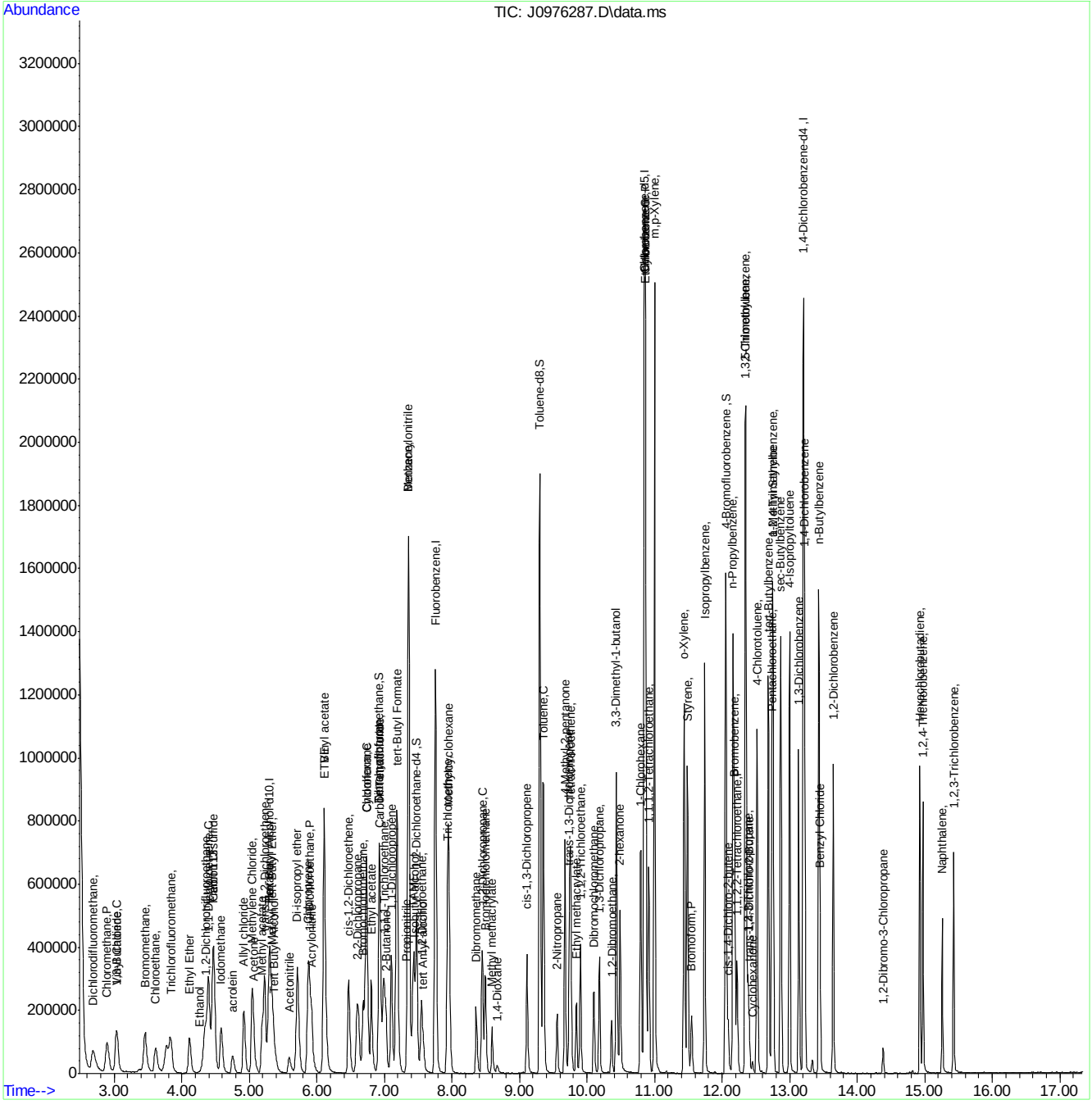
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.750	105	642149	26.95	ug/L	98
93) Pentachloroethane	12.738	167	114872	25.26	ug/L	96
94) sec-Butylbenzene	12.866	105	817061	28.36	ug/L	97
95) 4-Isopropyltoluene	13.000	119	657912	27.22	ug/L	100
96) 1,3-Dichlorobenzene	13.134	146	341388	25.93	ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	350079	25.05	ug/L	96
98) n-Butylbenzene	13.432	92	368712	26.46	ug/L	96
99) Benzyl Chloride	13.450	126	42206	21.38	ug/L #	82
100) 1,2-Dichlorobenzene	13.645	146	307388	24.40	ug/L	99
101) 1,2-Dibromo-3-Chloropr...	14.381	75	16376	18.08	ug/L	92
102) Hexachlorobutadiene	14.928	225	146630	26.05	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	200826	21.83	ug/L	98
104) Naphthalene	15.257	128	285343	18.48	ug/L	99
105) 1,2,3-Trichlorobenzene	15.427	180	166607	20.44	ug/L	97
107) Ethanol	4.264	45	16593m	573.41	ug/L	
108) acrolein	4.756	56	73506	100.73	ug/L	90
109) Tert Butyl Alcohol	5.371	59	97574	322.52	ug/L	94
110) tert Amyl alcohol	7.573	59	50479	237.87	ug/L	93
111) Isobutyl alcohol	7.451	42	50235	421.43	ug/L #	90
112) 1,4-Dioxane	8.668	88	16236	655.09	ug/L	96
113) 3,3-Dimethyl-1-butanol	10.432	57	364009	1400.21	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976287.D
Acq On : 4 May 2016 12:10 pm
Operator : darshnap
Sample : fa33606-3ms ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:44:07 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA33606

Manual Integration Approval Summary

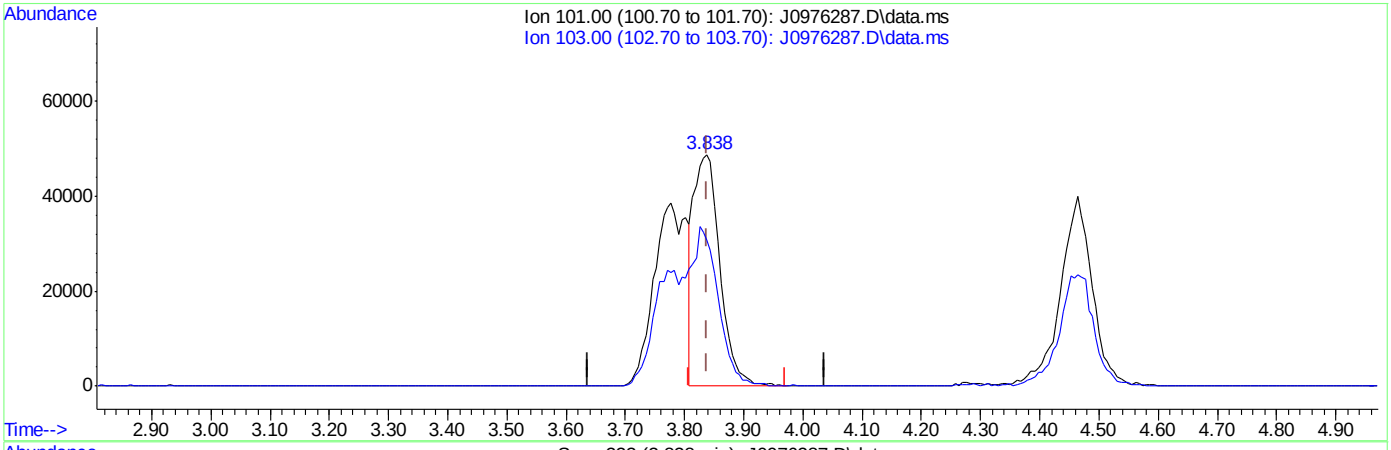
Sample Number:	FA33606-3MS	**Method:**	SW846 8260C
Lab FileID:	J0976287.D	**Analyst approved:**	05/04/16 12:56 Darshna Patel
Injection Time:	05/04/16 12:10	**Supervisor approved:**	05/04/16 14:00 Juan Garcia

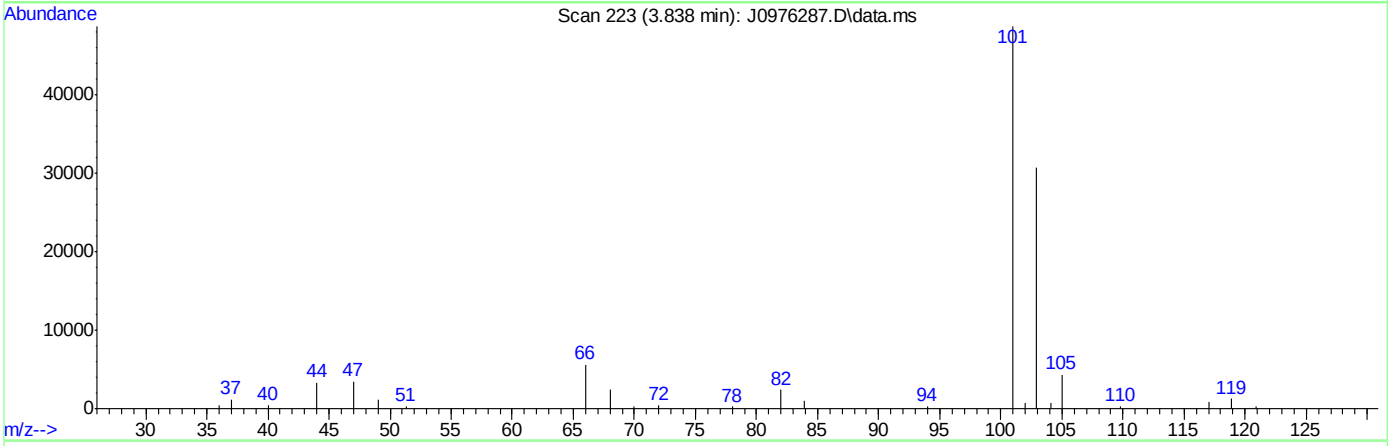
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976287.D
Acq On : 4 May 2016 12:10 pm
Operator : darshnap
Sample : fa33606-3ms ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:42:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976287.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 15.92ug/L

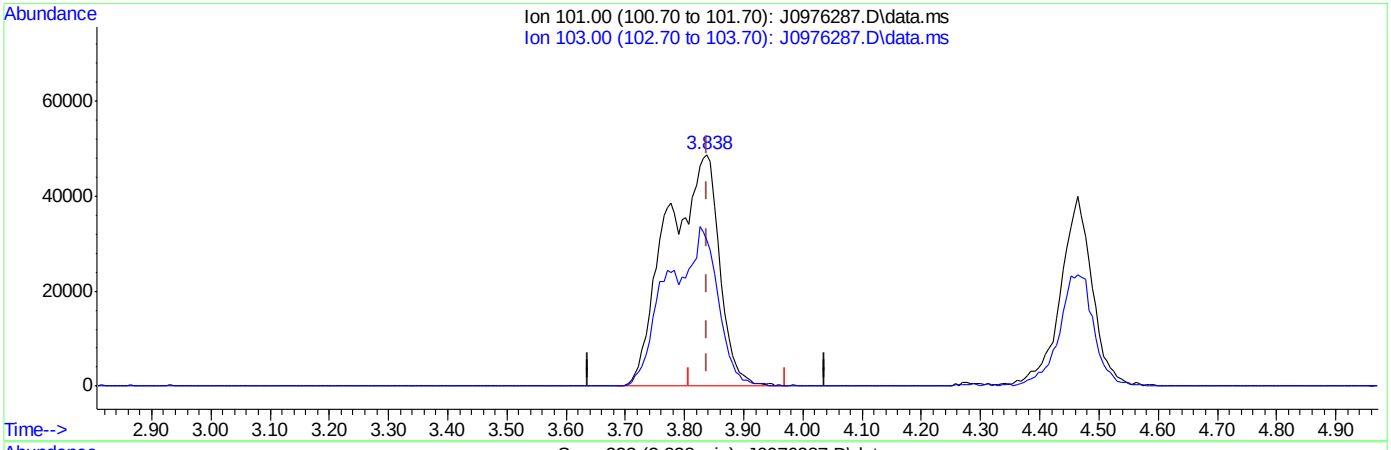
response 149791

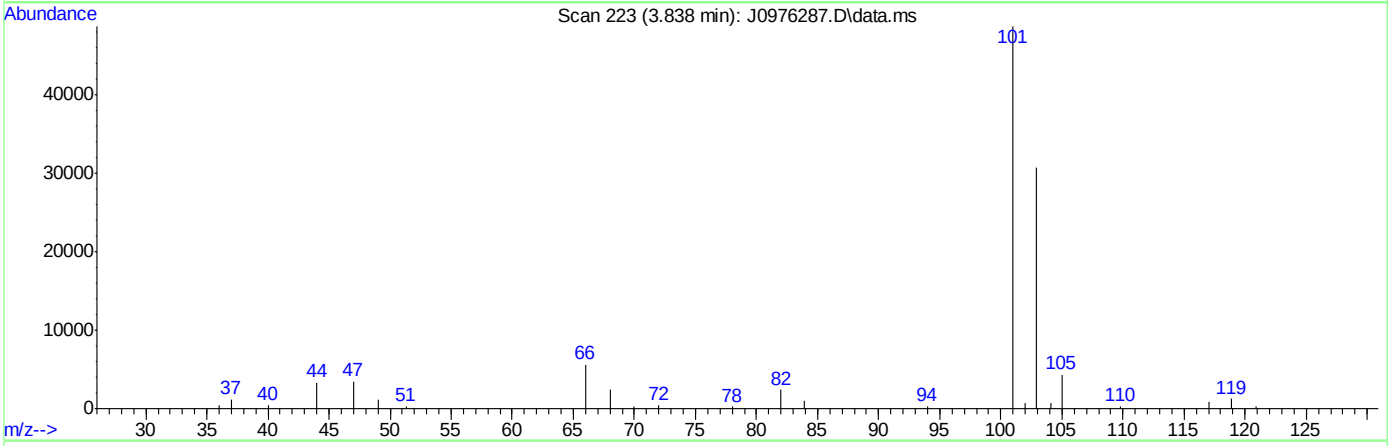
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.08
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976287.D
Acq On : 4 May 2016 12:10 pm
Operator : darshnap
Sample : fa33606-3ms ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:42:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976287.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 31.66ug/L m

response 297895

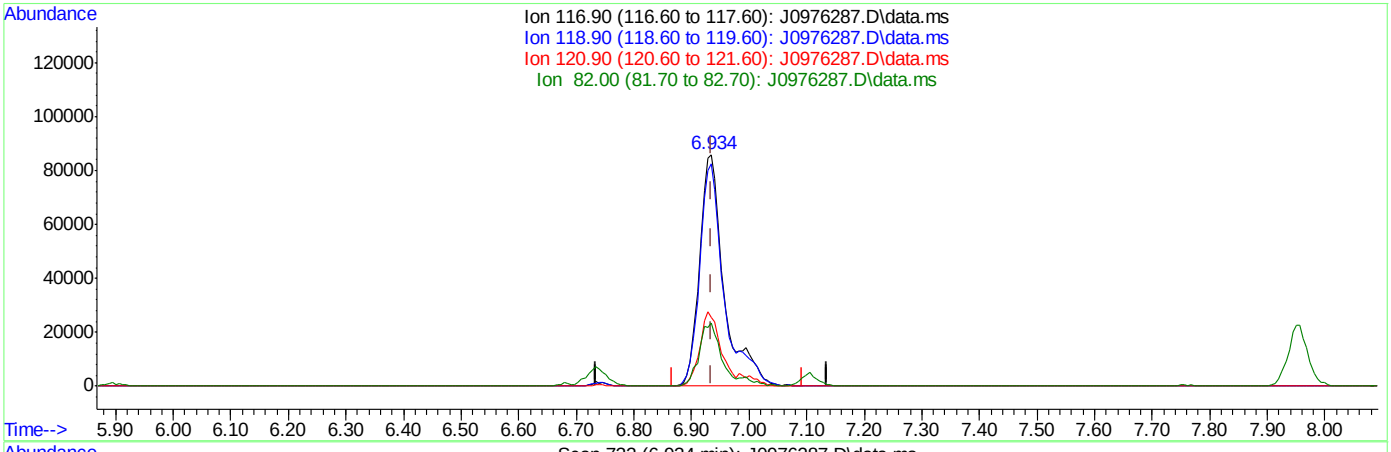
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.08
0.00	0.00	0.00
0.00	0.00	0.00

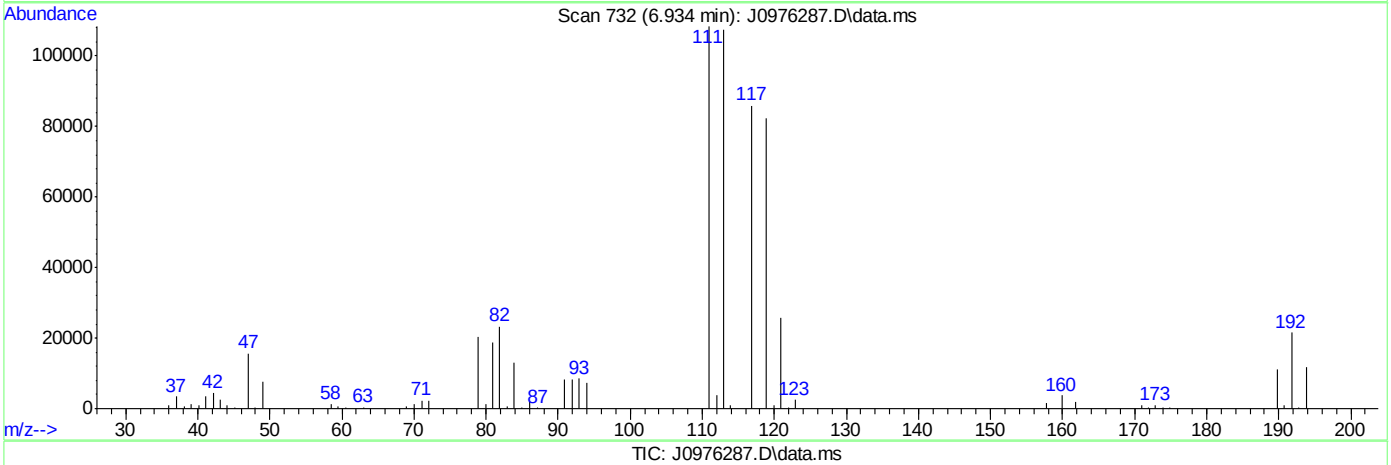
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976287.D
Acq On : 4 May 2016 12:10 pm
Operator : darshnap
Sample : fa33606-3ms ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:42:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976287.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 33.45ug/L

response 257540

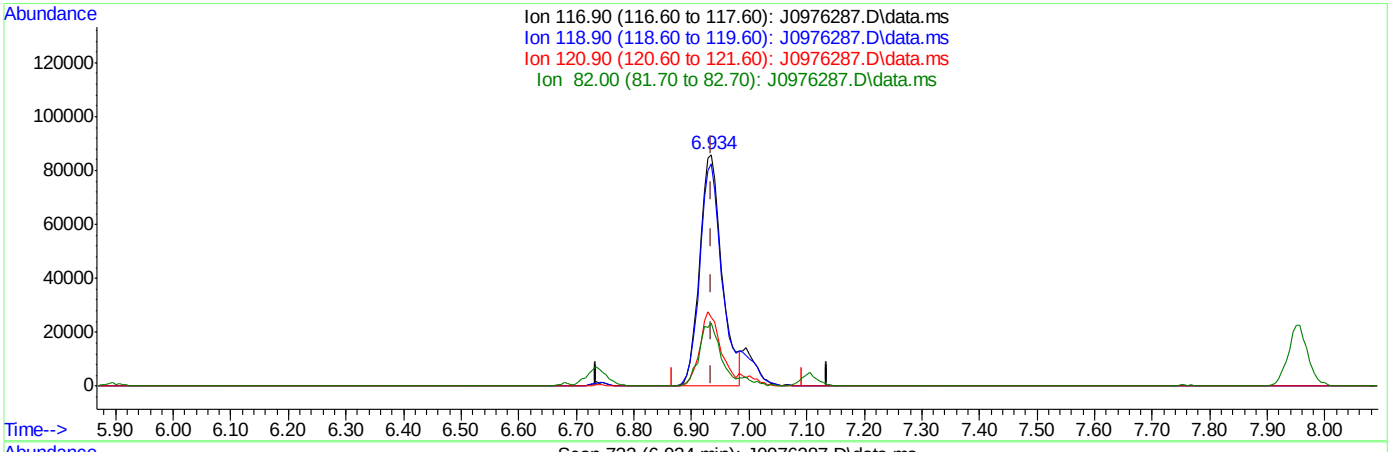
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.83
120.90	31.80	29.93
82.00	25.40	27.14

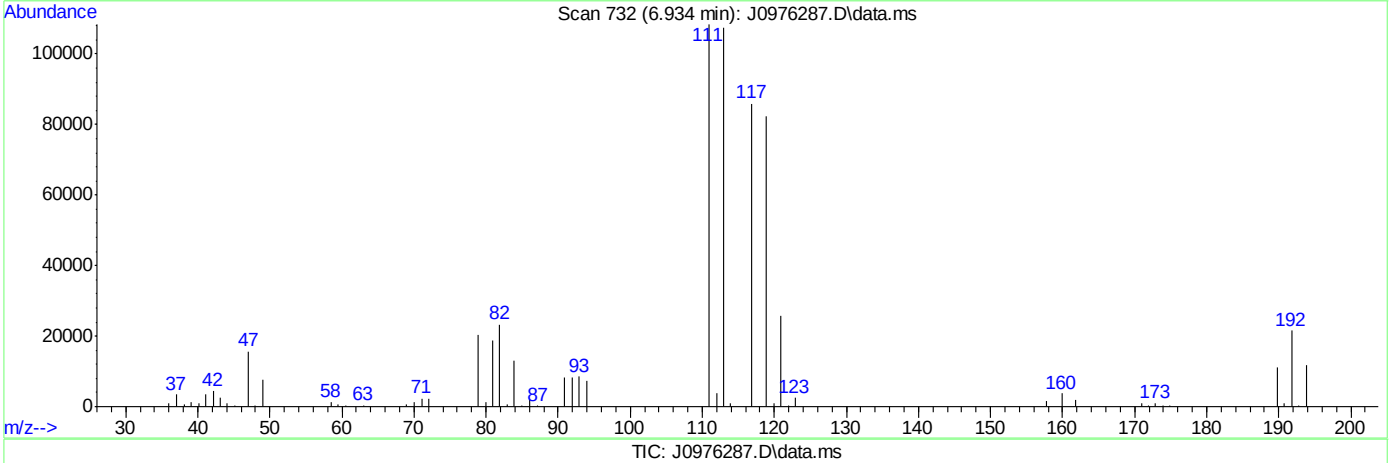
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976287.D
Acq On : 4 May 2016 12:10 pm
Operator : darshnap
Sample : fa33606-3ms ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:42:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976287.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 30.17ug/L m

response 232302

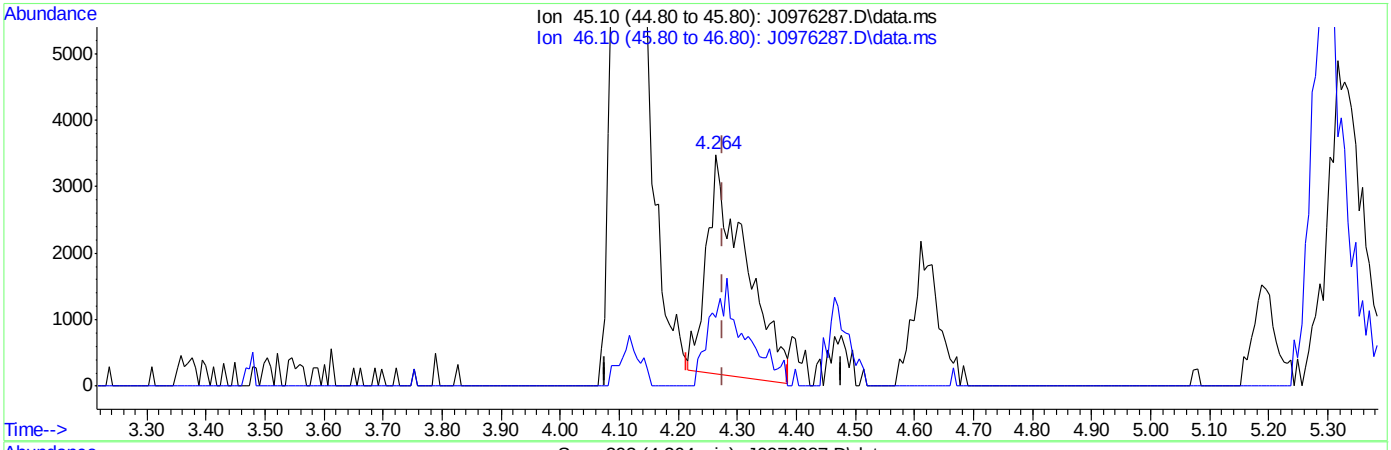
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.83
120.90	31.80	29.93
82.00	25.40	27.14

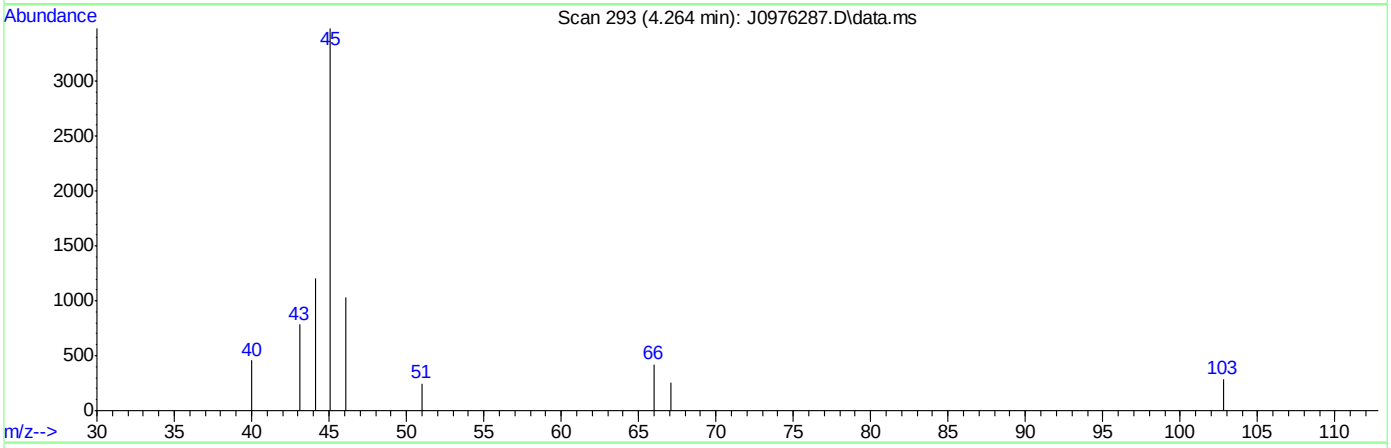
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976287.D
Acq On : 4 May 2016 12:10 pm
Operator : darshnap
Sample : fa33606-3ms ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:42:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976287.D\data.ms

(107) Ethanol

4.264min (-0.012) 509.56ug/L

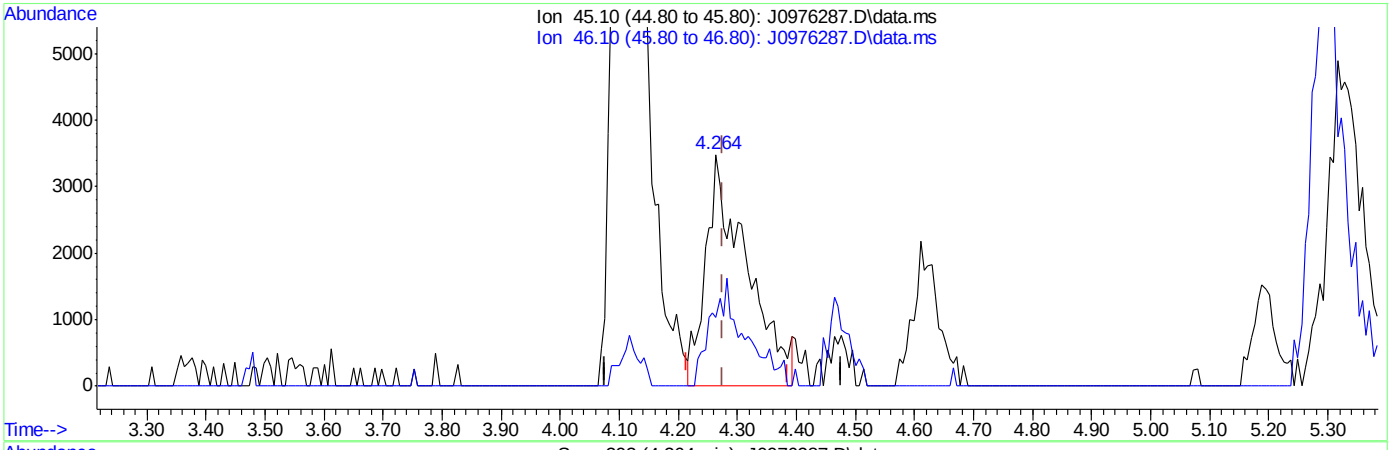
response 14856

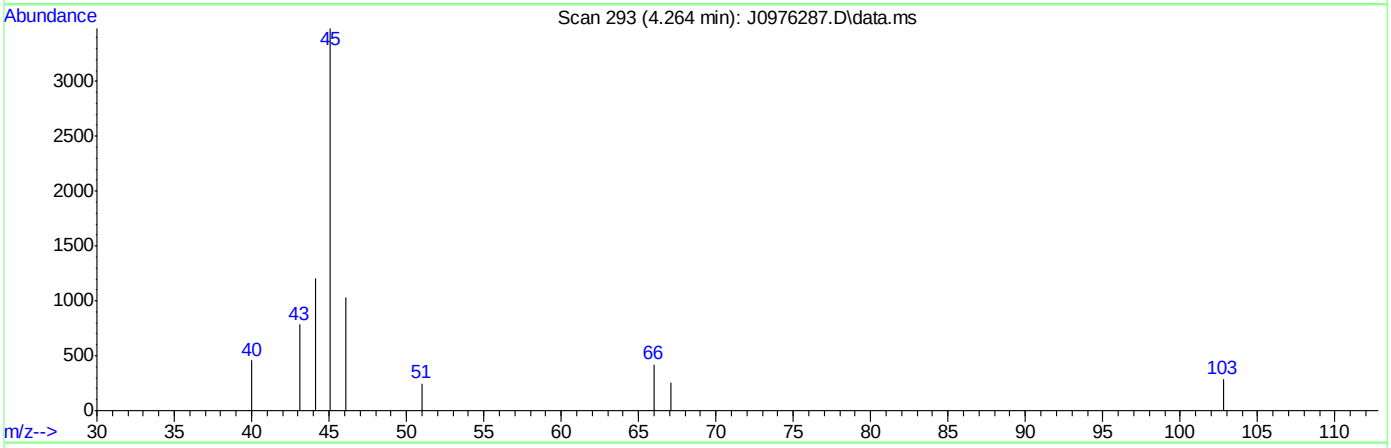
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	33.12
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976287.D
Acq On : 4 May 2016 12:10 pm
Operator : darshnap
Sample : fa33606-3ms ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:42:25 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976287.D\data.ms

(107) Ethanol

4.264min (-0.012) 573.41ug/L m

response 16593

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.49
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33606

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/04/16 14:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976288.D
Acq On : 4 May 2016 12:33 pm
Operator : darshnap
Sample : fa33606-3msd ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:51:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.762	96	1236310	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	973738	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	530861	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	74435	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	317622	50.63	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.26%			
46) 1,2-Dichloroethane-d4	7.482	65	379965	50.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 100.16%			
57) Toluene-d8	9.301	98	1236782	48.28	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.56%			
79) 4-Bromofluorobenzene	12.057	95	485509	50.56	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	166477	21.87	ug/L	95
3) Chloromethane	2.901	50	205856	25.28	ug/L	99
4) Vinyl Chloride	3.047	62	223039	26.74	ug/L	97
5) 1,3-Butadiene	3.041	54	25691	4.14	ug/L	94
6) Bromomethane	3.467	94	147952	24.35	ug/L	93
7) Chloroethane	3.619	64	120475	28.65	ug/L	94
8) Trichlorofluoromethane	3.844	101	303031	29.28	ug/L	96
9) Ethyl Ether	4.124	59	108855	22.77	ug/L	95
10) 1,2-Dichlorotrifluoroe...	4.361	67	198502	27.62	ug/L	96
11) 1,1-Dichloroethene	4.404	61	232399	25.96	ug/L	99
12) Freon 113	4.471	101	150940	24.39	ug/L	97
13) Carbon Disulfide	4.477	76	453103	24.31	ug/L	98
14) Iodomethane	4.592	142	244343	24.70	ug/L	97
15) Allyl chloride	4.927	41	176680	21.35	ug/L	96
16) Methylene Chloride	5.049	49	199179	24.56	ug/L	97
17) Acetone	5.067	58	41268	111.31	ug/L	89
18) Methyl acetate	5.195	74	75926	105.17	ug/L	93
19) trans-1,2-Dichloroethene	5.231	61	224964	27.36	ug/L	98
20) Hexane	5.304	56	136852	25.94	ug/L	90
21) Methyl Tert Butyl Ether	5.341	73	369088	22.52	ug/L	92
22) Acetonitrile	5.596	40	53253	227.46	ug/L	92
23) Di-isopropyl ether	5.718	45	440518	23.48	ug/L	98
24) Chloroprene	5.876	53	214941	24.32	ug/L	97
25) 1,1-Dichloroethane	5.900	63	289851	26.41	ug/L	98
26) Acrylonitrile	5.925	53	172861	105.37	ug/L	90
27) ETBE	6.119	59	431132	22.95	ug/L	97
28) Vinyl acetate	6.113	43	1095485	115.30	ug/L	97
29) cis-1,2-Dichloroethene	6.478	96	165185	23.44	ug/L	98
30) 2,2-Dichloropropane	6.606	77	226496	26.44	ug/L	96
31) Bromochloromethane	6.691	128	73127	22.95	ug/L	98
32) Cyclohexane	6.740	56	255028	24.71	ug/L	97
33) Chloroform	6.740	83	312111	25.61	ug/L	99
34) Ethyl acetate	6.813	43	426666	111.69	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976288.D
Acq On : 4 May 2016 12:33 pm
Operator : darshnap
Sample : fa33606-3msd ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:51:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.922	42	24842	22.12	ug/L		94
37)	Carbon Tetrachloride	6.935	117	232984m	27.51	ug/L		
38)	1,1,1-Trichloroethane	6.995	97	260509	25.00	ug/L		98
39)	2-Butanone	7.026	43	180767	113.22	ug/L		95
40)	1,1-Dichloropropene	7.111	75	220989	26.26	ug/L		99
41)	tert-Butyl Formate	7.190	59	386173	100.75	ug/L	#	87
42)	Propionitrile	7.336	54	127942	225.82	ug/L		93
43)	Methacrylonitrile	7.360	41	567203	215.14	ug/L		94
44)	Benzene	7.360	78	646739	25.25	ug/L		100
45)	TAME	7.433	73	363612	21.45	ug/L		95
47)	1,2-Dichloroethane	7.555	62	207779	23.18	ug/L		97
48)	Trichloroethene	7.938	95	174041	26.22	ug/L		96
49)	Methylcyclohexane	7.957	83	290975	26.09	ug/L		97
50)	Dibromomethane	8.364	93	89270	24.10	ug/L		97
51)	1,2-Dichloropropane	8.449	63	155325	24.14	ug/L		94
52)	Bromodichloromethane	8.498	83	199582	24.20	ug/L		95
53)	Methyl methacrylate	8.595	41	77364	22.74	ug/L		97
55)	cis-1,3-Dichloropropene	9.112	75	219739	22.32	ug/L		95
58)	Toluene	9.356	91	692129	24.54	ug/L		97
59)	2-Nitropropane	9.557	41	116046	103.30	ug/L		95
60)	4-Methyl-2-pentanone	9.672	43	482430	119.73	ug/L		98
61)	trans-1,3-Dichloropropene	9.739	75	208441	23.52	ug/L		94
62)	Tetrachloroethene	9.757	166	177146	23.50	ug/L		98
63)	Ethyl methacrylate	9.842	69	122652	19.04	ug/L		97
64)	1,1,2-Trichloroethane	9.903	83	105676	22.97	ug/L		98
65)	Dibromochloromethane	10.104	129	130679	22.35	ug/L		98
66)	1,3-Dichloropropane	10.183	76	207309	22.06	ug/L		99
67)	1,2-Dibromoethane	10.366	107	115089	22.07	ug/L		95
68)	2-hexanone	10.487	43	328603	123.34	ug/L		95
69)	1-Chlorohexane	10.798	91	208285	25.18	ug/L		96
70)	Ethylbenzene	10.865	91	833153	25.91	ug/L		99
71)	Chlorobenzene	10.865	112	472350	25.18	ug/L		94
72)	1,1,1,2-Tetrachloroethane	10.913	131	156530	25.66	ug/L		98
73)	m,p-Xylene	10.998	91	1280417	49.17	ug/L		97
74)	o-Xylene	11.436	91	624633	25.14	ug/L		98
75)	Styrene	11.485	104	437117	21.87	ug/L		97
76)	Bromoform	11.552	173	73596	20.14	ug/L		97
77)	Isopropylbenzene	11.741	105	762424	26.56	ug/L		99
80)	cis-1,4-Dichloro-2-butene	12.087	53	30431	17.64	ug/L		96
81)	n-Propylbenzene	12.160	91	961414	28.54	ug/L		98
82)	Bromobenzene	12.185	156	196370	24.76	ug/L		97
83)	1,1,2,2-Tetrachloroethane	12.221	83	148709	23.23	ug/L		98
84)	1,3,5-Trimethylbenzene	12.343	105	669050	26.25	ug/L		99
85)	2-Chlorotoluene	12.349	91	656509	26.55	ug/L		98
86)	trans-1,4-Dichloro-2-B...	12.398	53	29772	18.51	ug/L	#	62
87)	1,2,3-Trichloropropane	12.385	110	39855	24.43	ug/L		96
88)	Cyclohexanone	12.452	55	13668	133.24	ug/L		95
89)	4-Chlorotoluene	12.519	91	587300	26.53	ug/L		100
90)	a-Methyl Styrene	12.750	118	5941	0.82	ug/L	#	1
91)	tert-Butylbenzene	12.684	91	389748	26.17	ug/L		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976288.D
Acq On : 4 May 2016 12:33 pm
Operator : darshnap
Sample : fa33606-3msd ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:51:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

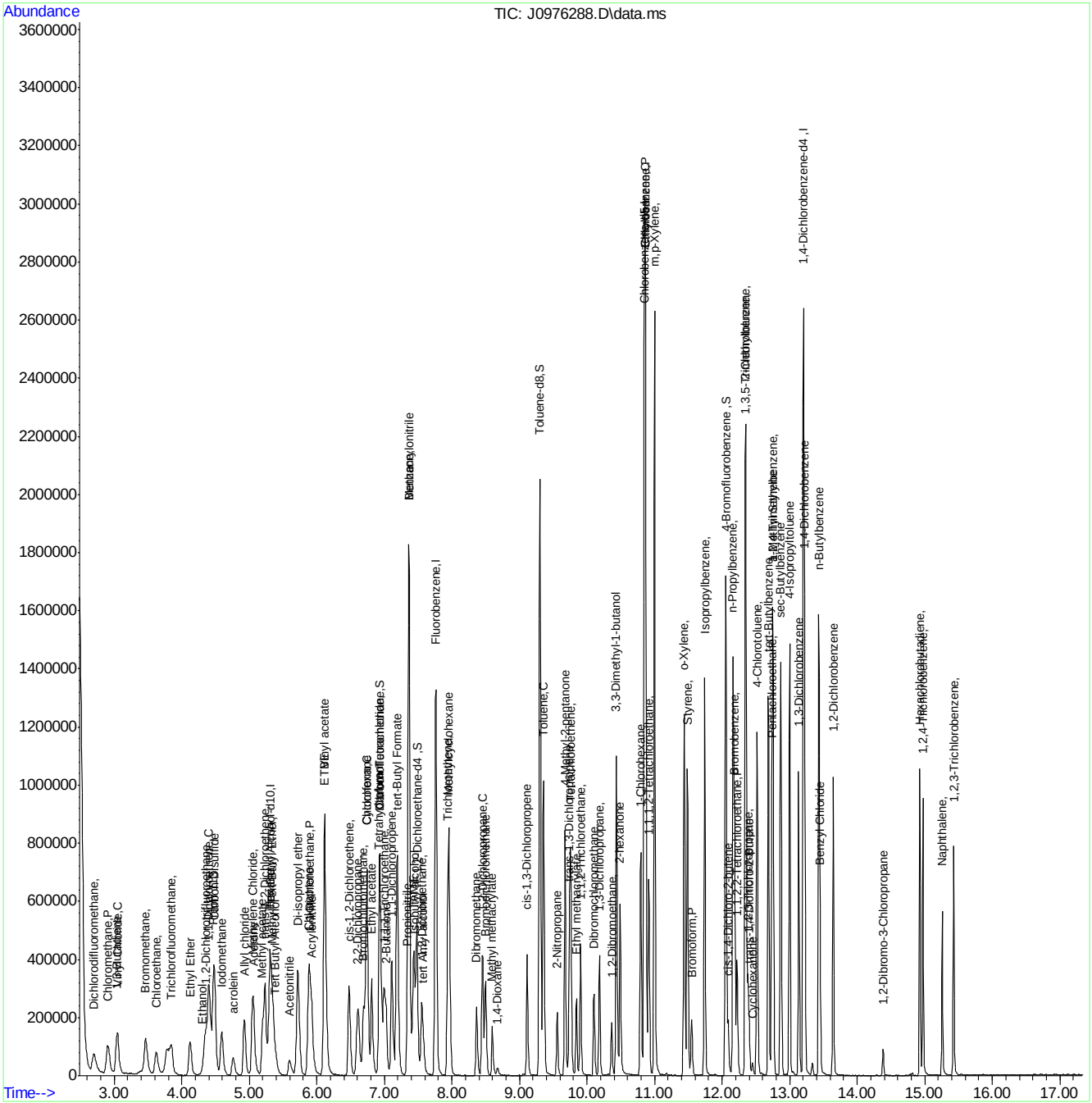
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 1,2,4-Trimethylbenzene	12.750	105	665653	26.15	ug/L	97
93) Pentachloroethane	12.738	167	118367	24.35	ug/L	97
94) sec-Butylbenzene	12.866	105	844871	27.45	ug/L	99
95) 4-Isopropyltoluene	13.000	119	684360	26.51	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	359818	25.58	ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	373183	25.00	ug/L	95
98) n-Butylbenzene	13.432	92	385835	25.92	ug/L	97
99) Benzyl Chloride	13.450	126	44909	21.30	ug/L #	89
100) 1,2-Dichlorobenzene	13.645	146	320758	23.83	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	18541	19.14	ug/L	86
102) Hexachlorobutadiene	14.928	225	155774	25.90	ug/L	97
103) 1,2,4-Trichlorobenzene	14.971	180	221639	22.55	ug/L	98
104) Naphthalene	15.257	128	336061	20.38	ug/L	97
105) 1,2,3-Trichlorobenzene	15.427	180	189537	21.76	ug/L	96
107) Ethanol	4.300	45	20380m	591.84	ug/L	
108) acrolein	4.763	56	83010	95.38	ug/L	88
109) Tert Butyl Alcohol	5.377	59	113477	314.52	ug/L	95
110) tert Amyl alcohol	7.573	59	58620	231.63	ug/L	97
111) Isobutyl alcohol	7.452	42	57867	406.49	ug/L #	76
112) 1,4-Dioxane	8.674	88	17690	598.51	ug/L	94
113) 3,3-Dimethyl-1-butanol	10.433	57	429139	1384.20	ug/L	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976288.D
Acq On : 4 May 2016 12:33 pm
Operator : darshnap
Sample : fa33606-3msd ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:51:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



MSJ031516.M Wed May 04 12:52:00 2016 Page: 4

SGS ACCUTEST FA33606

Manual Integration Approval Summary

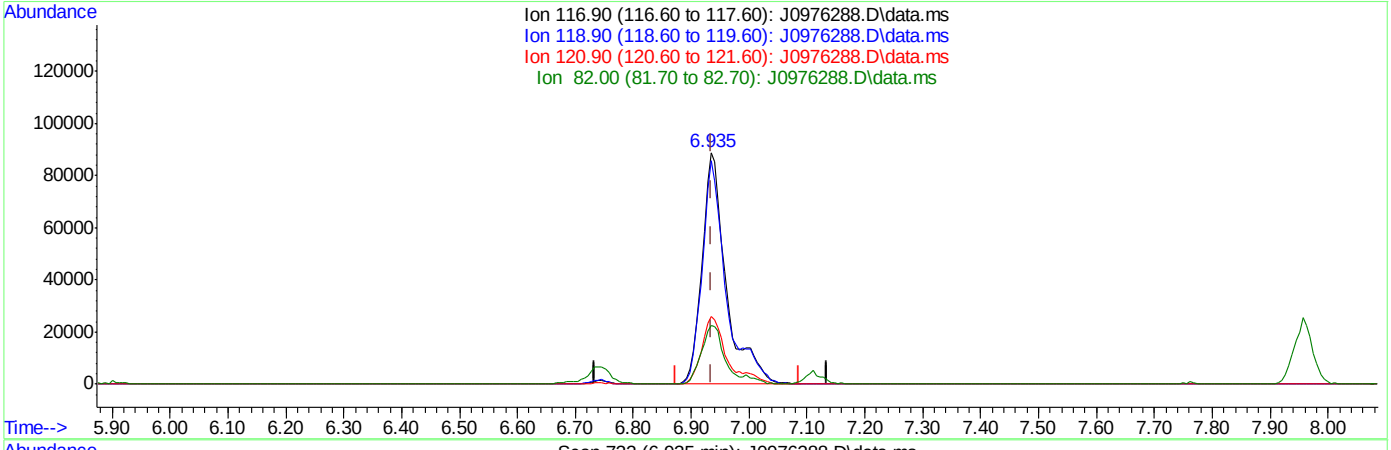
Sample Number:	FA33606-3MSD	**Method:**	SW846 8260C
Lab FileID:	J0976288.D	**Analyst approved:**	05/04/16 12:56 Darshna Patel
Injection Time:	05/04/16 12:33	**Supervisor approved:**	05/04/16 14:00 Juan Garcia

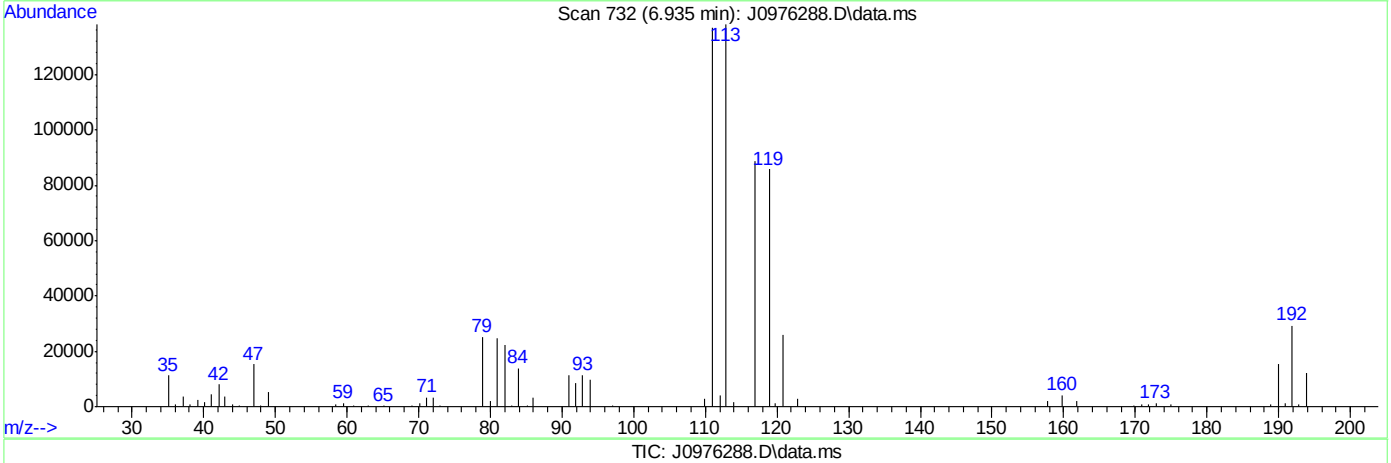
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		4.30	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976288.D
Acq On : 4 May 2016 12:33 pm
Operator : darshnap
Sample : fa33606-3msd ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:50:58 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





(37) Carbon Tetrachloride ( )

6.935min (-0.000) 30.92ug/L

response 261894

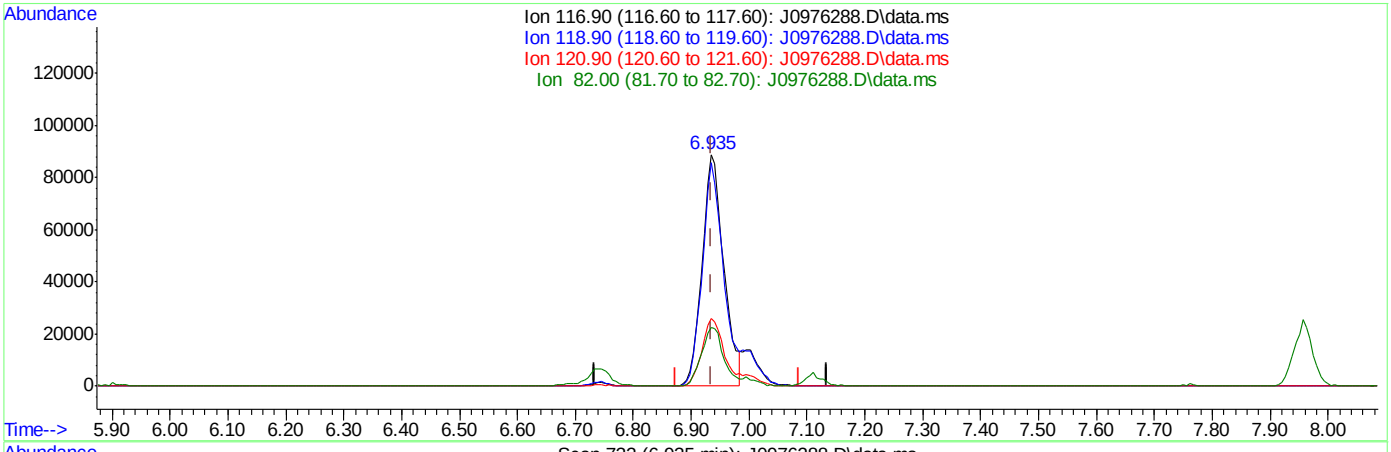
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	96.40
120.90	31.80	29.40
82.00	25.40	25.21

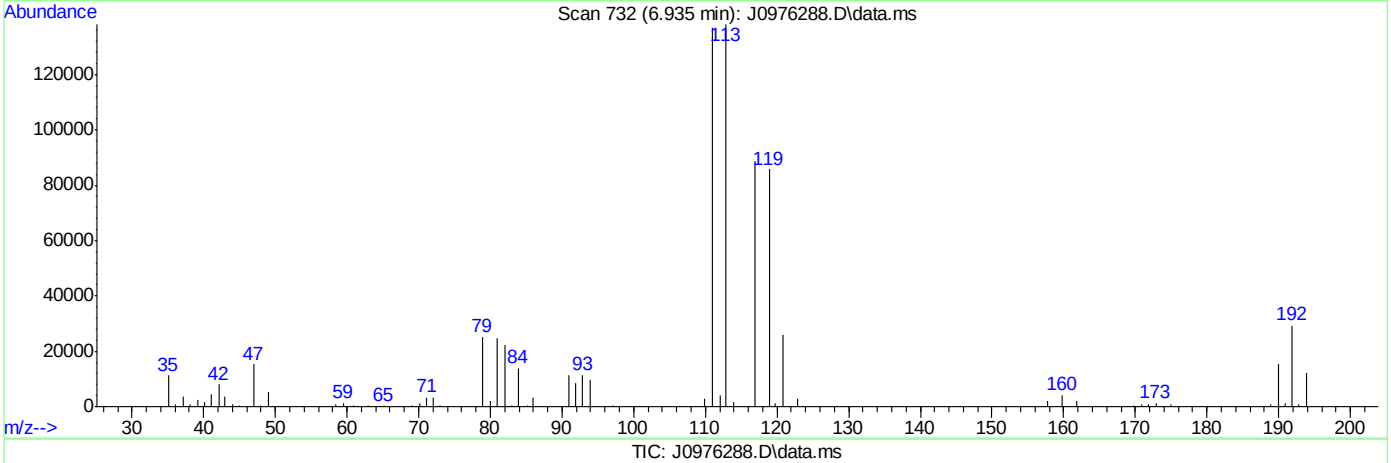
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976288.D
Acq On : 4 May 2016 12:33 pm
Operator : darshnap
Sample : fa33606-3msd ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:50:58 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976288.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.000) 27.51ug/L m

response 232984

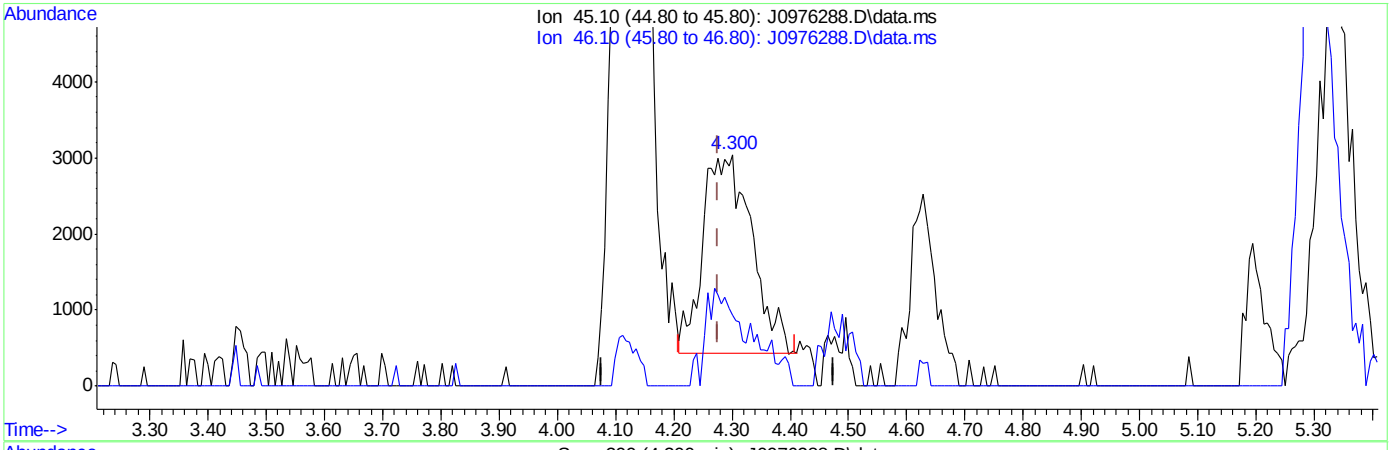
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	96.40
120.90	31.80	29.40
82.00	25.40	25.21

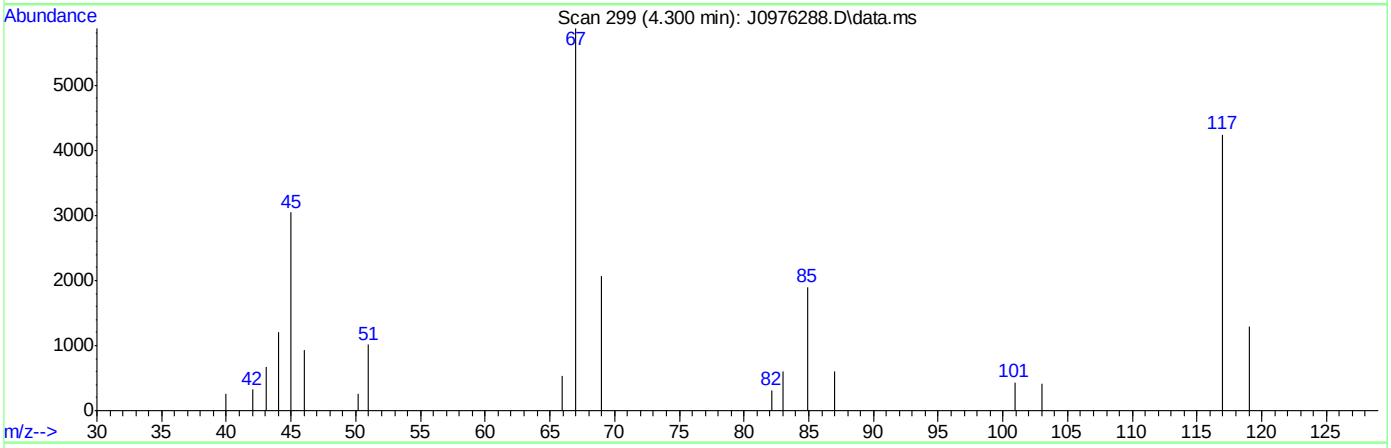
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976288.D
Acq On : 4 May 2016 12:33 pm
Operator : darshnap
Sample : fa33606-3msd ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:50:58 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976288.D\data.ms

(107) Ethanol

4.300min (+0.024) 431.55ug/L

response 15141

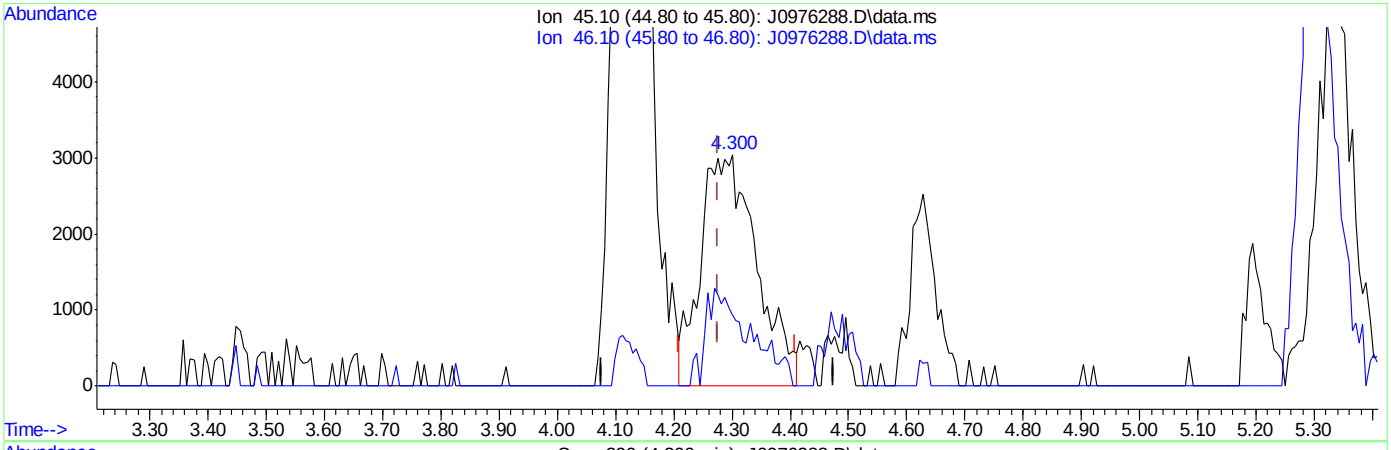
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	35.53
0.00	0.00	0.00
0.00	0.00	0.00

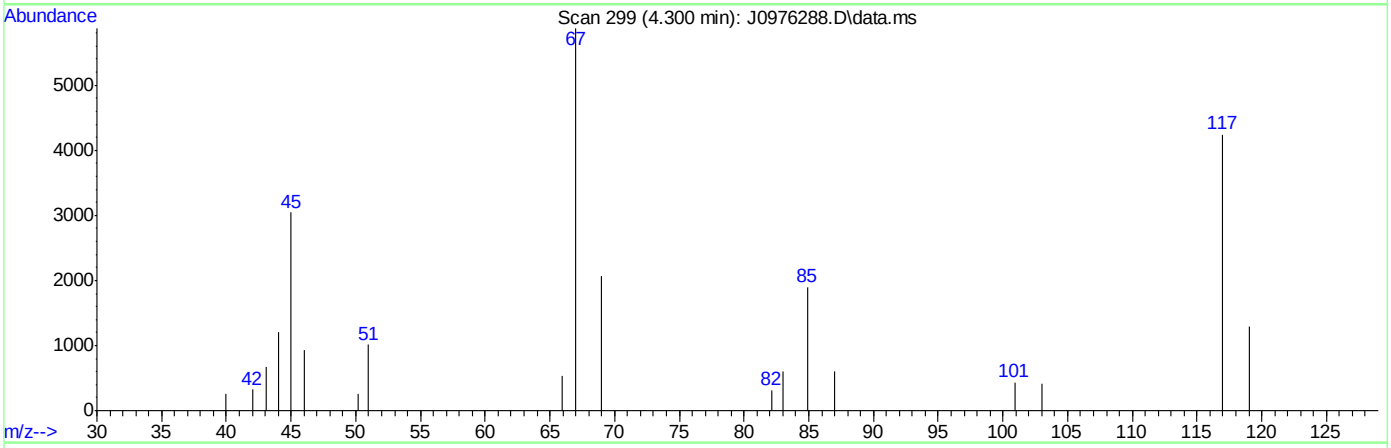
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976288.D
Acq On : 4 May 2016 12:33 pm
Operator : darshnap
Sample : fa33606-3msd ma Inst : MSVOA6
Misc : MS33777,VJ5285,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: May 04 12:50:58 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976288.D\data.ms

(107) Ethanol

4.300min (+0.024) 591.84ug/L m

response 20380

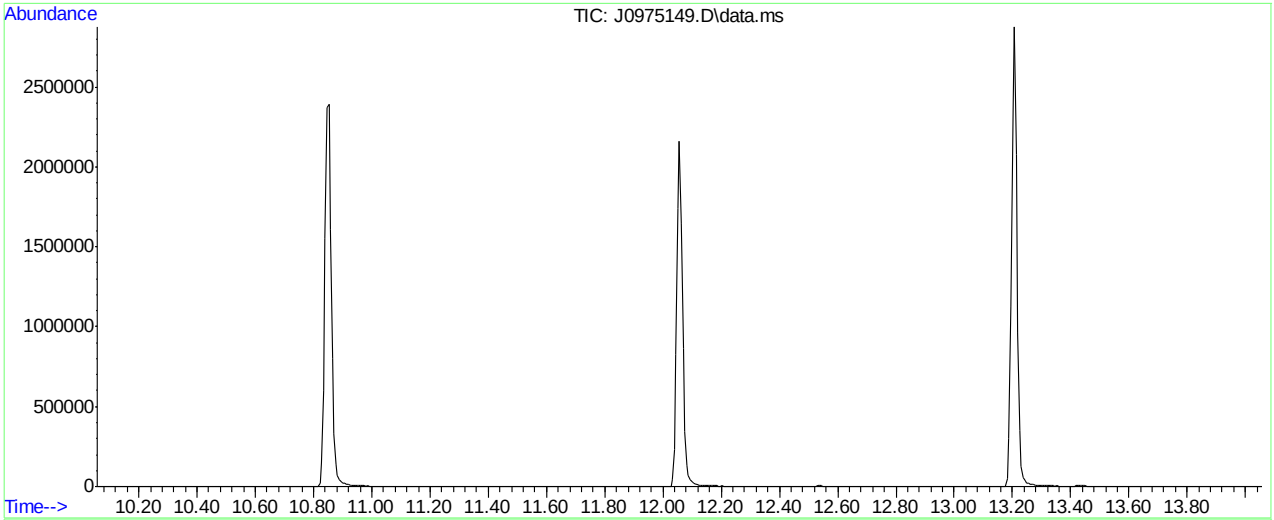
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	30.45
0.00	0.00	0.00
0.00	0.00	0.00

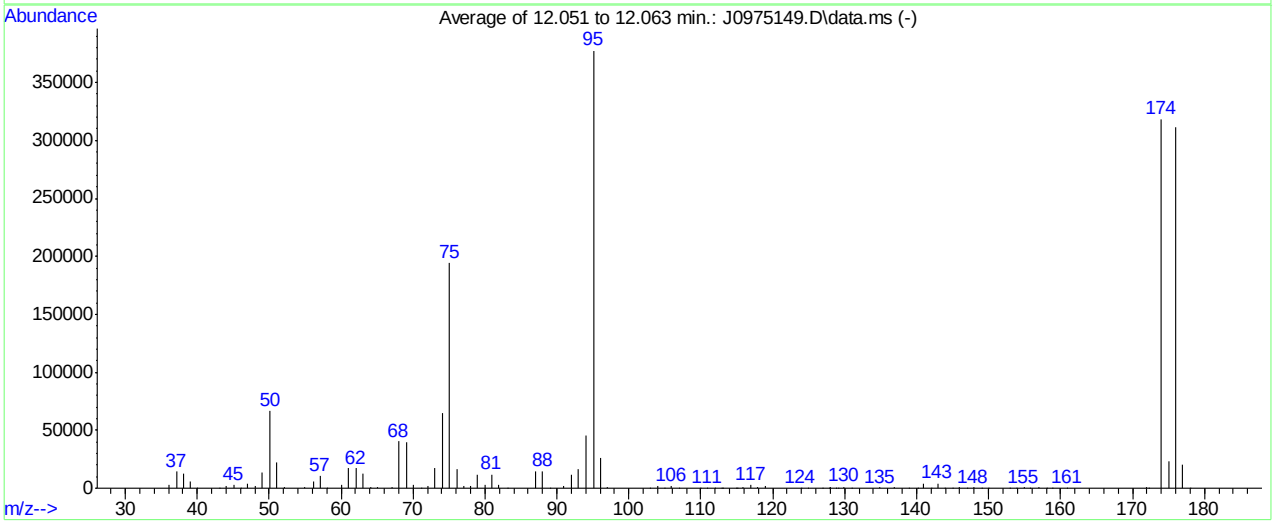
SGS ACCUTEST FA33606

Methods: SW-846 8260B

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

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





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

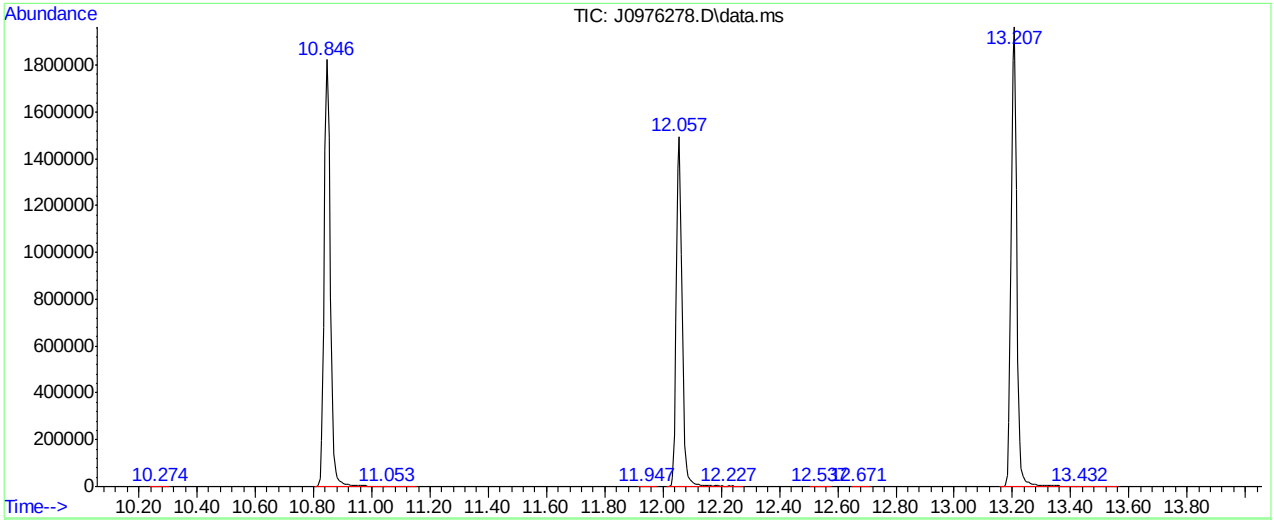
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.6	66293	PASS
75	95	30	60	51.4	194069	PASS
95	95	100	100	100.0	377600	PASS
96	95	5	9	7.0	26531	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	84.3	318315	PASS
175	174	5	9	7.2	22907	PASS
176	174	95	101	97.8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

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

Methods: SW-846 8260B

```
Data File : C:\msdchem\2\data\050416\J0976278.D          Vial: 1
Acq On    :  4 May 2016   8:09 am                    Operator: darshnap
Sample    : bfb                                      Inst    : MSVOA6
Misc      : MS33770,VJ5285,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

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



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

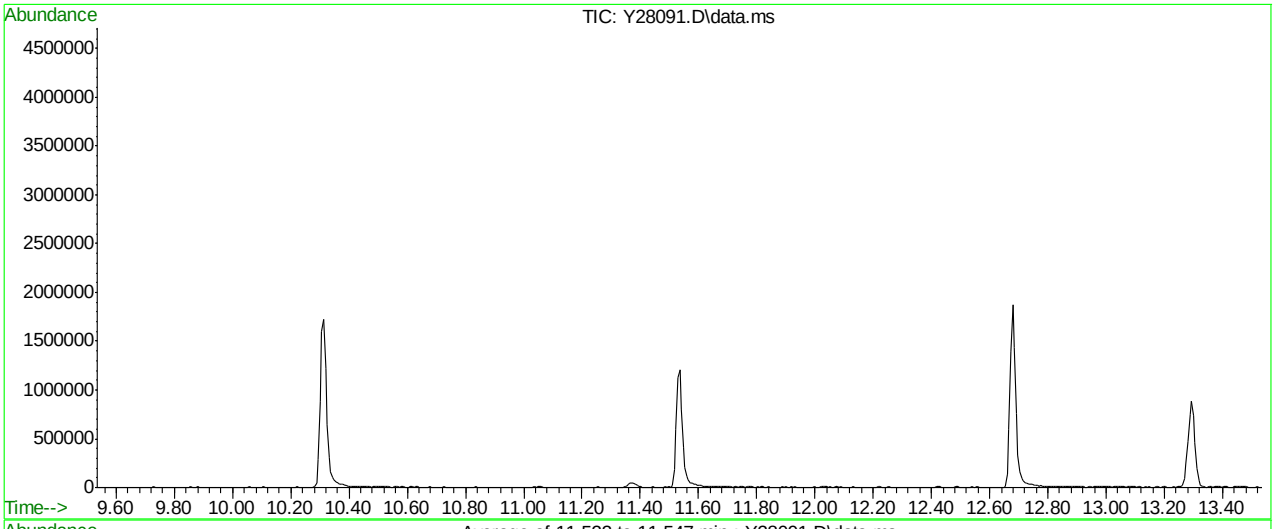
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	46192	PASS
75	95	30	60	51.0	131976	PASS
95	95	100	100	100.0	259008	PASS
96	95	5	9	6.9	17967	PASS
173	174	0.00	2	0.2	466	PASS
174	95	50	100	88.0	228032	PASS
175	174	5	9	7.5	17090	PASS
176	174	95	101	97.8	222976	PASS
177	176	5	9	6.6	14689	PASS

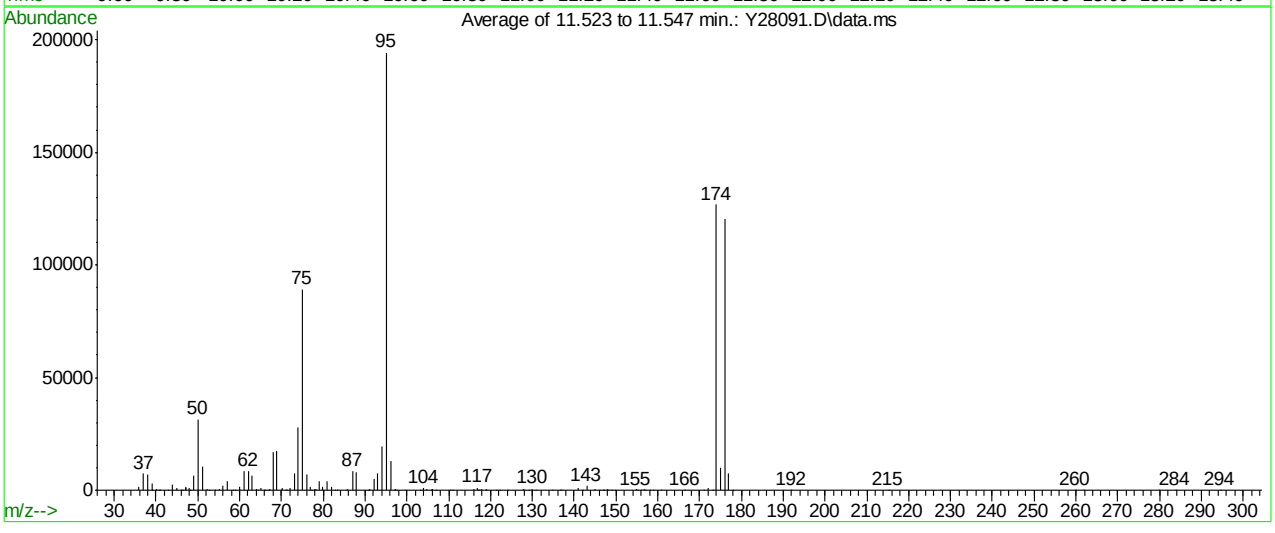
J0976278.D MSJ031516.M Wed May 04 12:55:09 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\042516\Y28091.D Vial: 5
Acq On : 25 Apr 2016 8:42 am Operator: ANGIED
Sample : BFB Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\042516APP9-Y.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B





Spectrum Information: Average of 11.523 to 11.547 min.

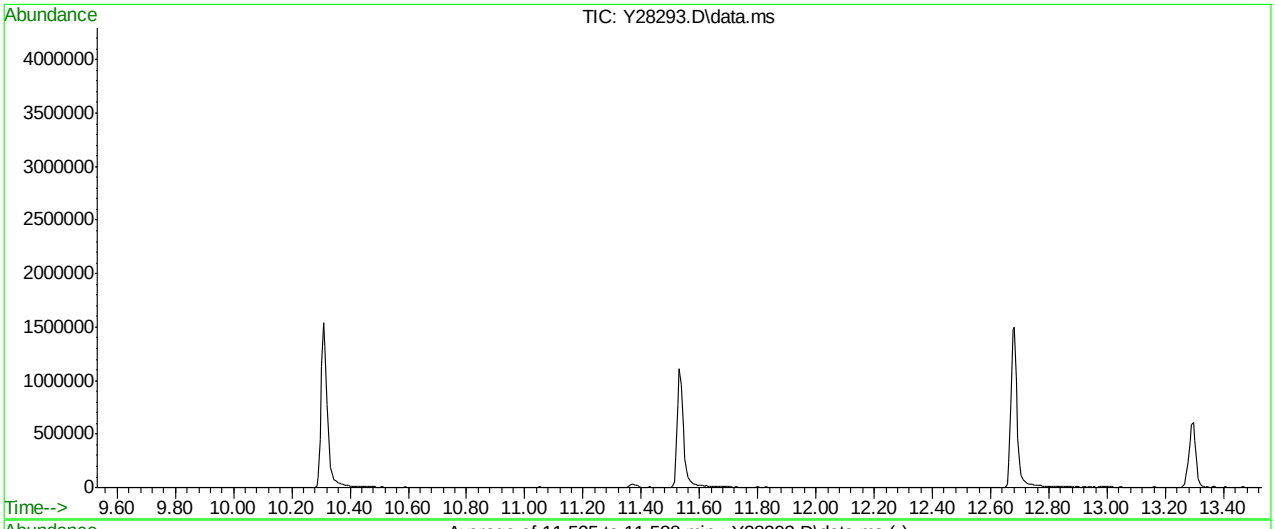
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	31414	PASS
75	95	30	60	45.9	89240	PASS
95	95	100	100	100.0	194368	PASS
96	95	5	9	6.8	13127	PASS
173	174	0.00	2	0.1	173	PASS
174	95	50	100	65.2	126793	PASS
175	174	5	9	8.0	10199	PASS
176	174	95	101	95.0	120513	PASS
177	176	5	9	6.4	7710	PASS

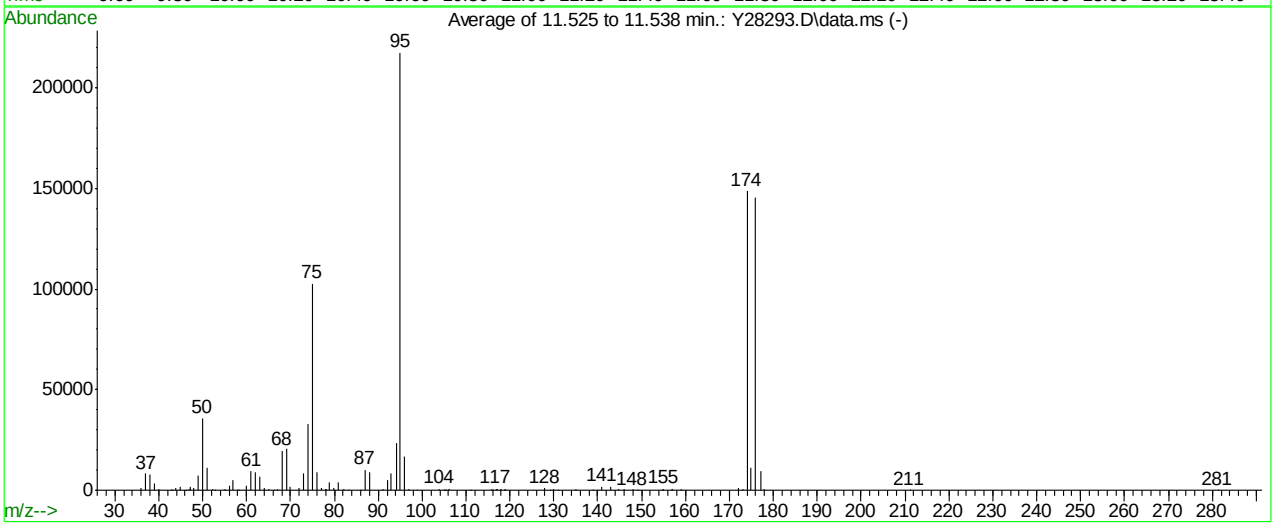
Y28091.D 042516APP9-Y.m Tue Apr 26 09:05:17 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\DATA\050316\Y28293.D Vial: 5
Acq On : 3 May 2016 9:43 am Operator: ANGIED
Sample : BFB Inst : MSVOA14
Misc : MS33759,VY1144,5.00,,,5,, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\042516APP9-Y.m (RTE Integrator)
Title : SW-846 Method 5035A/8260B





Spectrum Information: Average of 11.525 to 11.538 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	35669	PASS
75	95	30	60	47.2	102744	PASS
95	95	100	100	100.0	217557	PASS
96	95	5	9	7.7	16663	PASS
173	174	0.00	2	0.2	337	PASS
174	95	50	100	68.3	148608	PASS
175	174	5	9	7.6	11263	PASS
176	174	95	101	97.9	145554	PASS
177	176	5	9	6.4	9308	PASS

Y28293.D 042516APP9-Y.m Wed May 04 09:23:12 2016

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

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

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

7.6.1

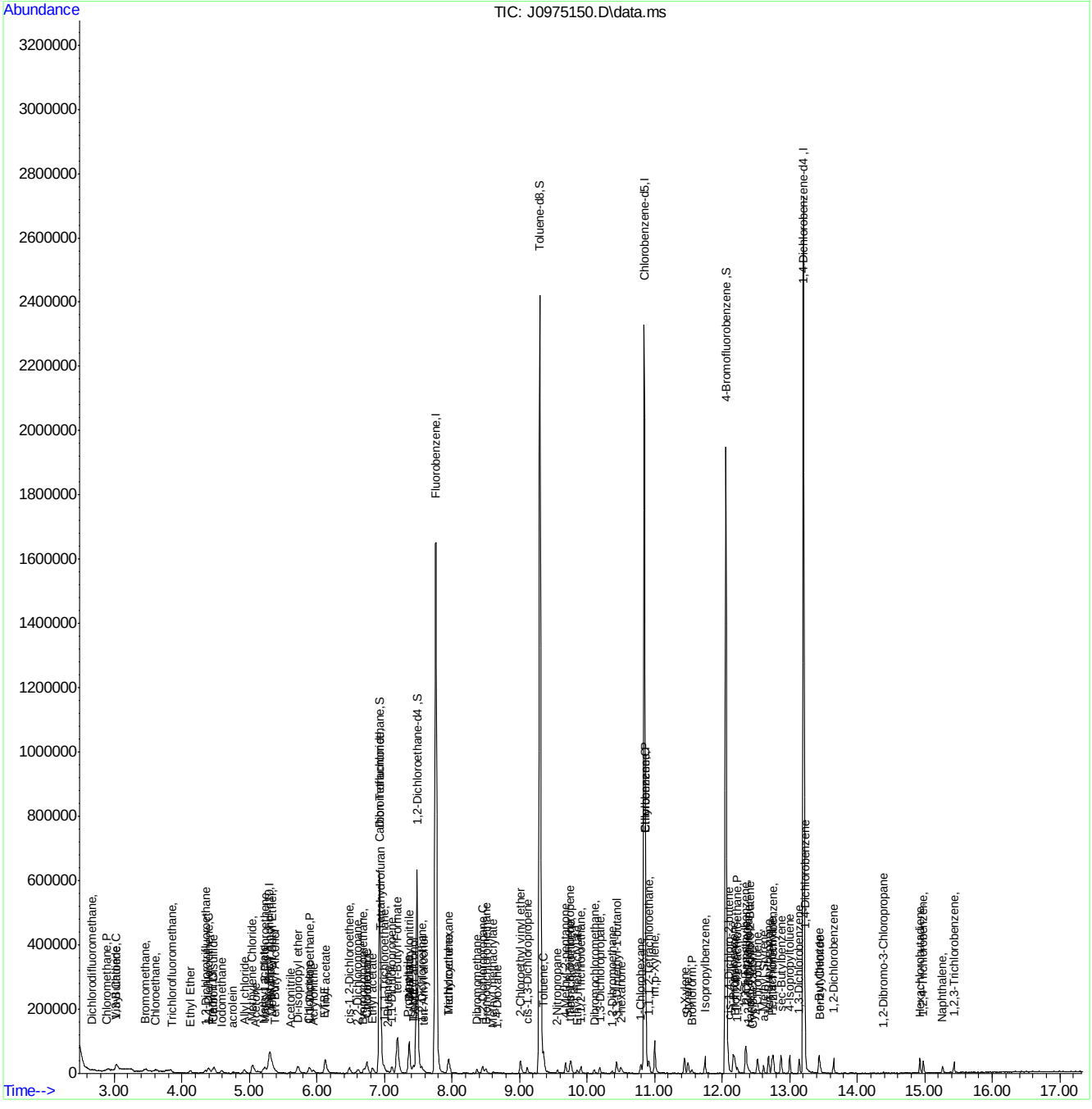
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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



SGS ACCUTEST FA33606

Manual Integration Approval Summary

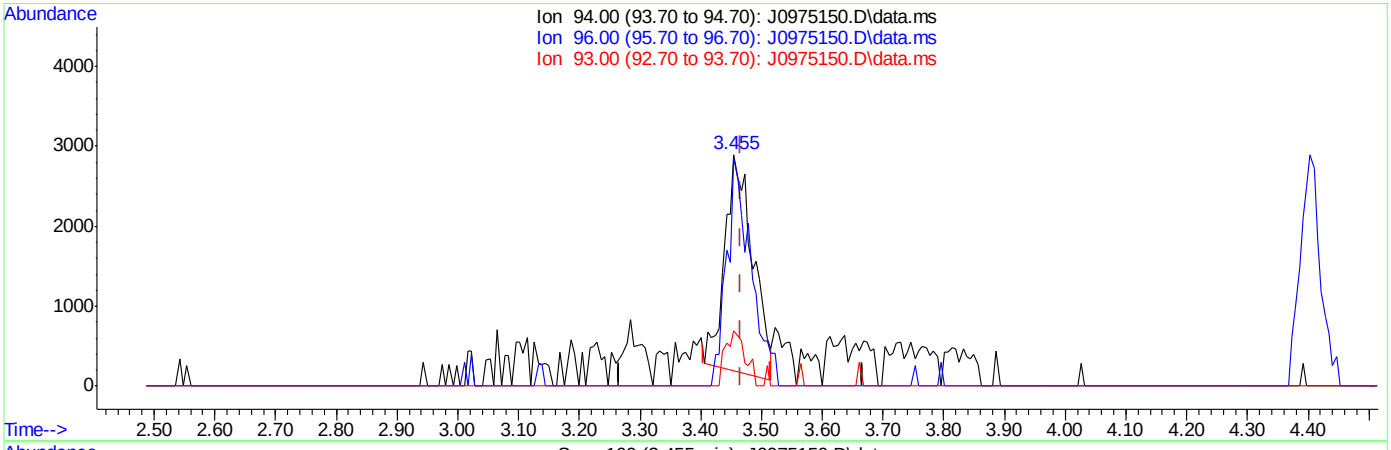
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975150.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 14:17	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

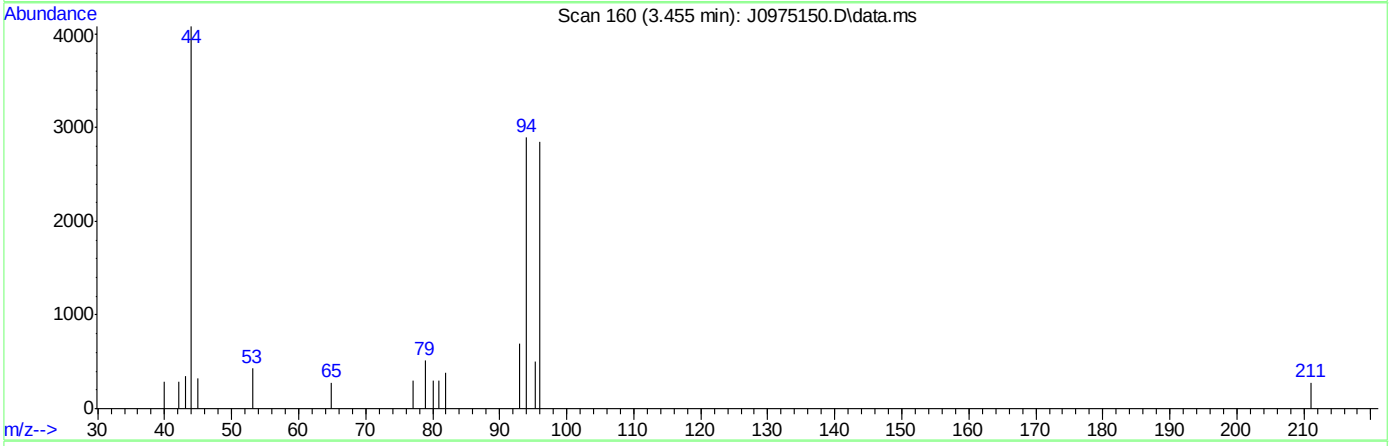
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Bromide	74-83-9		3.45	Poor instrument integration
Trichlorofluoromethane	75-69-4		3.85	Split peak

Quantitation Report (Qedit)

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

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





TIC: J0975150.D\data.ms

(6) Bromomethane ( )

3.455min (-0.012) 1.27ug/L

response 8695

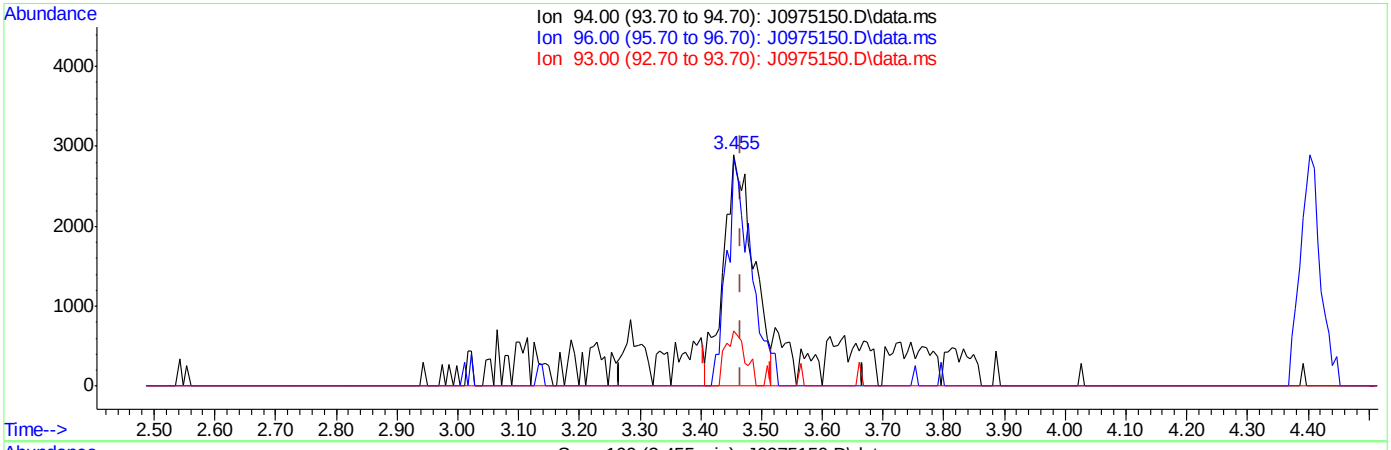
Ion	Exp%	Act%
94.00	100	100
96.00	91.30	108.90
93.00	18.00	26.71
0.00	0.00	0.00

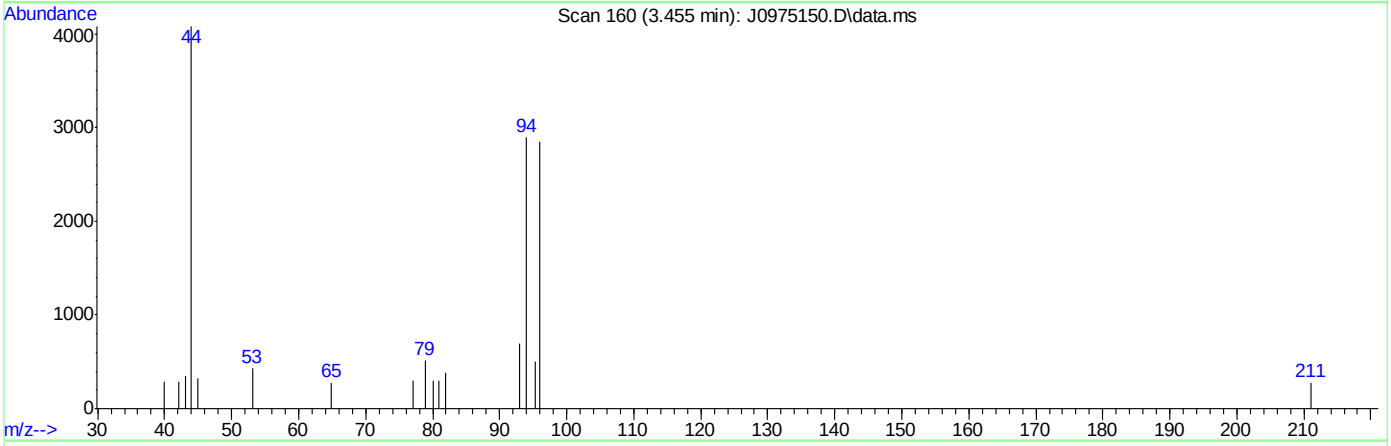
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975150.D\data.ms

(6) Bromomethane ( )

3.455min (-0.012) 1.44ug/L m

response 9881

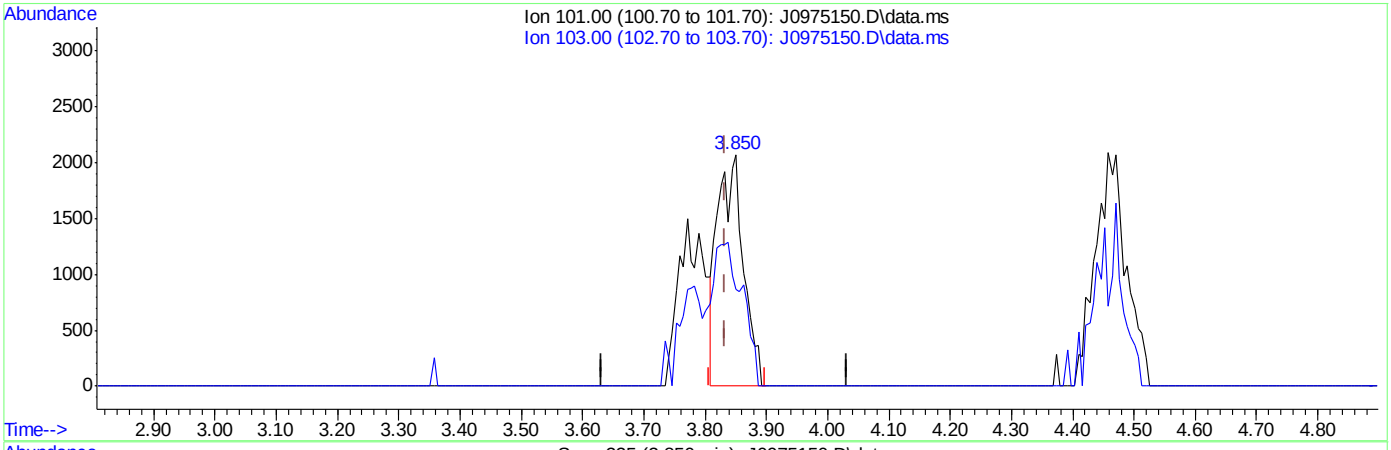
Ion	Exp%	Act%
94.00	100	100
96.00	91.30	98.31
93.00	18.00	24.11
0.00	0.00	0.00

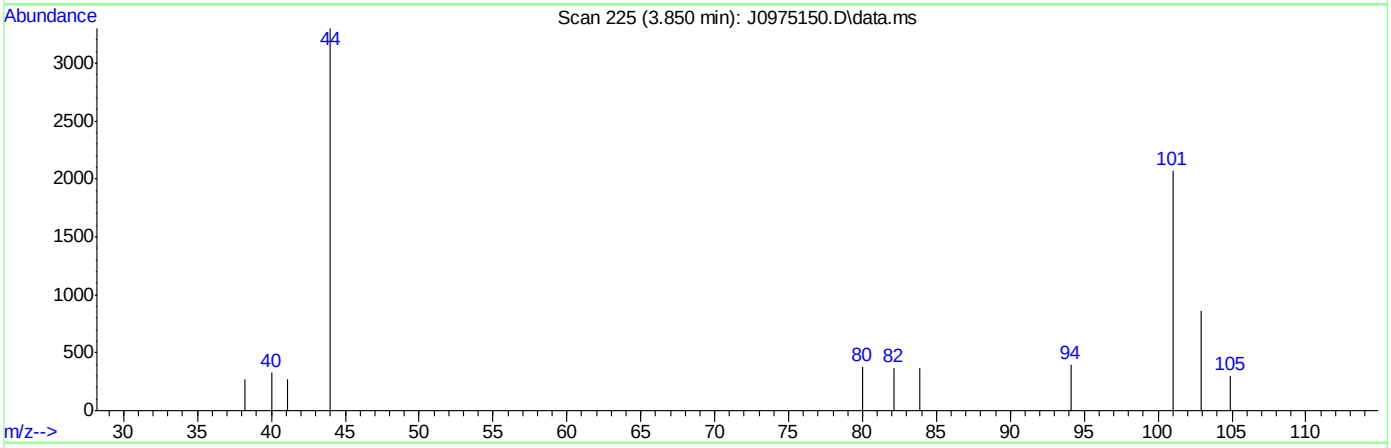
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975150.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.018) 0.46ug/L

response 6075

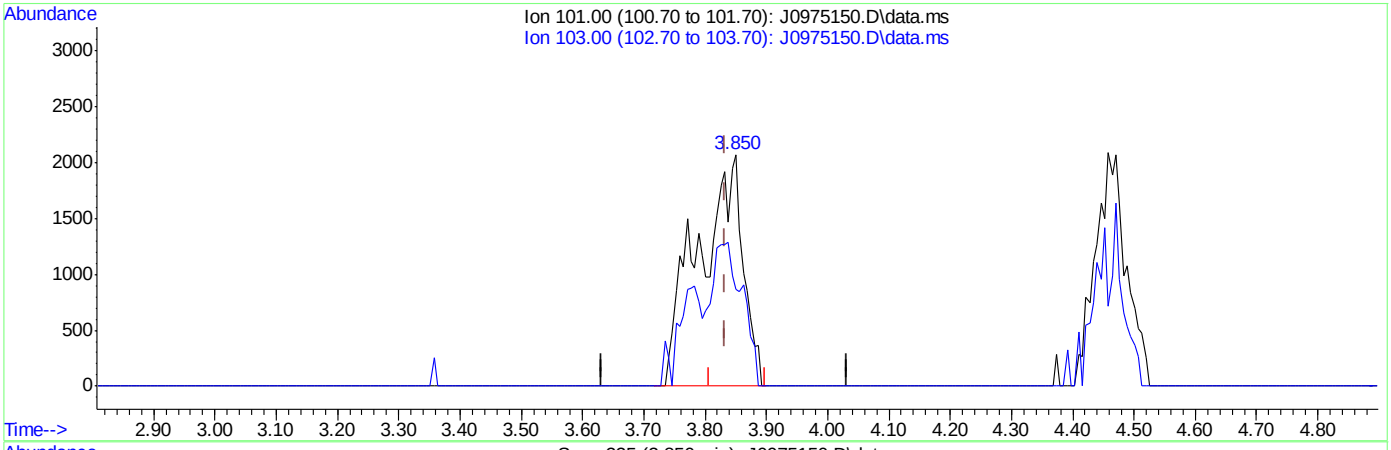
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	41.68
0.00	0.00	0.00
0.00	0.00	0.00

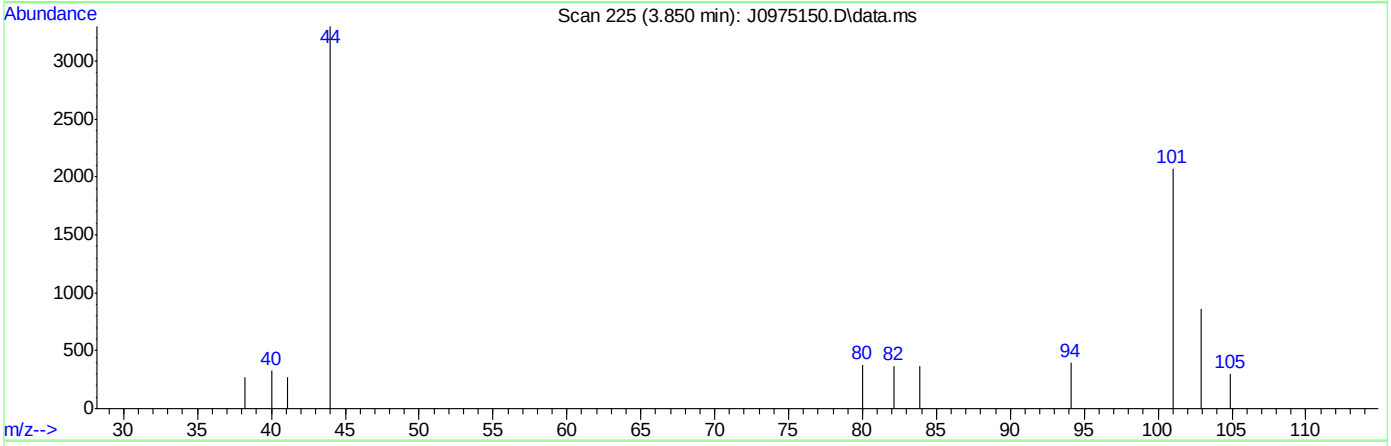
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975150.D\data.ms

(8) Trichlorofluoromethane ( )

3.850min (+0.018) 0.79ug/L m

response 10448

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

SGS ACCUTEST FA33606

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

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

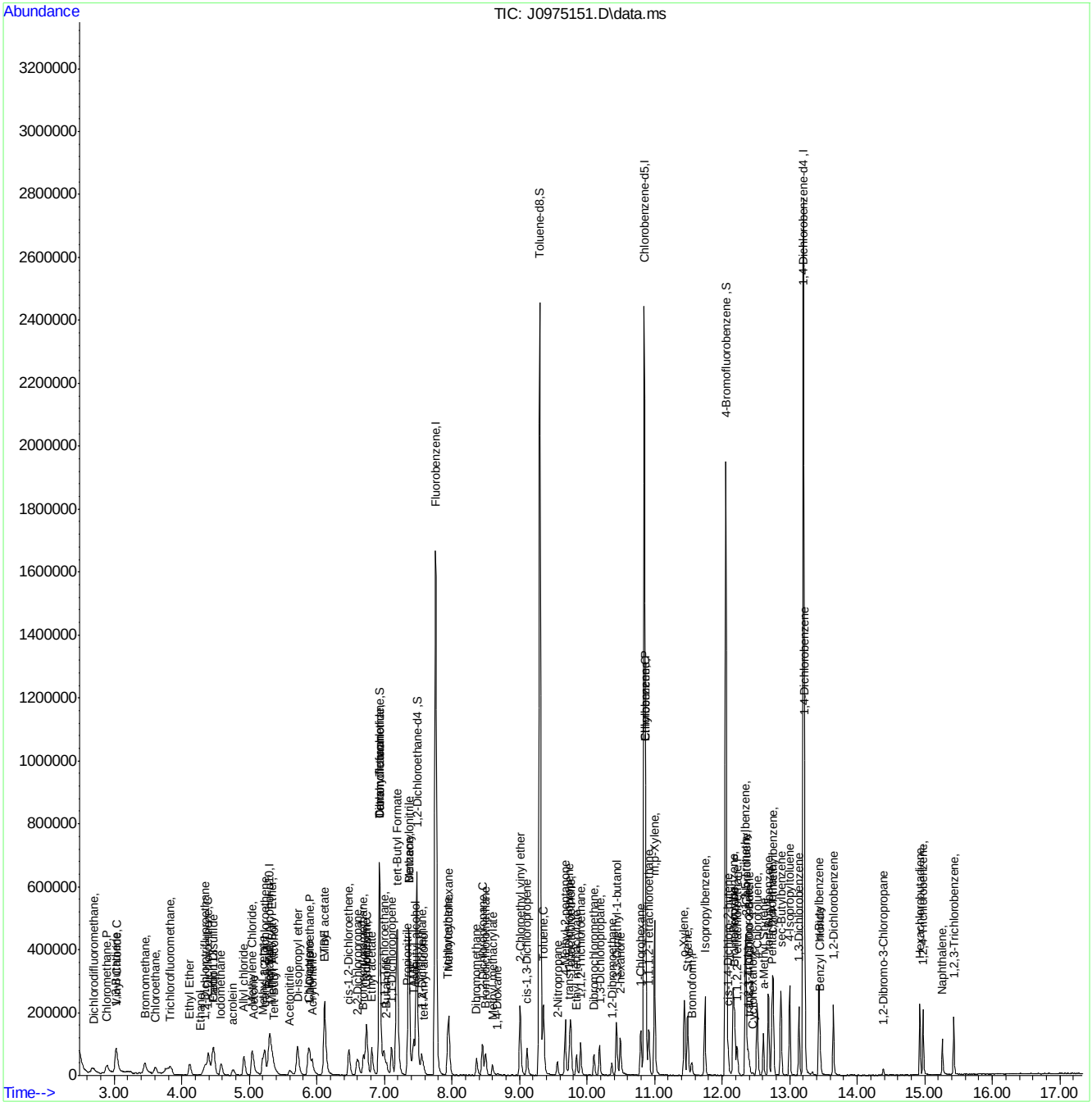
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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



SGS ACCUTEST FA33606

Manual Integration Approval Summary

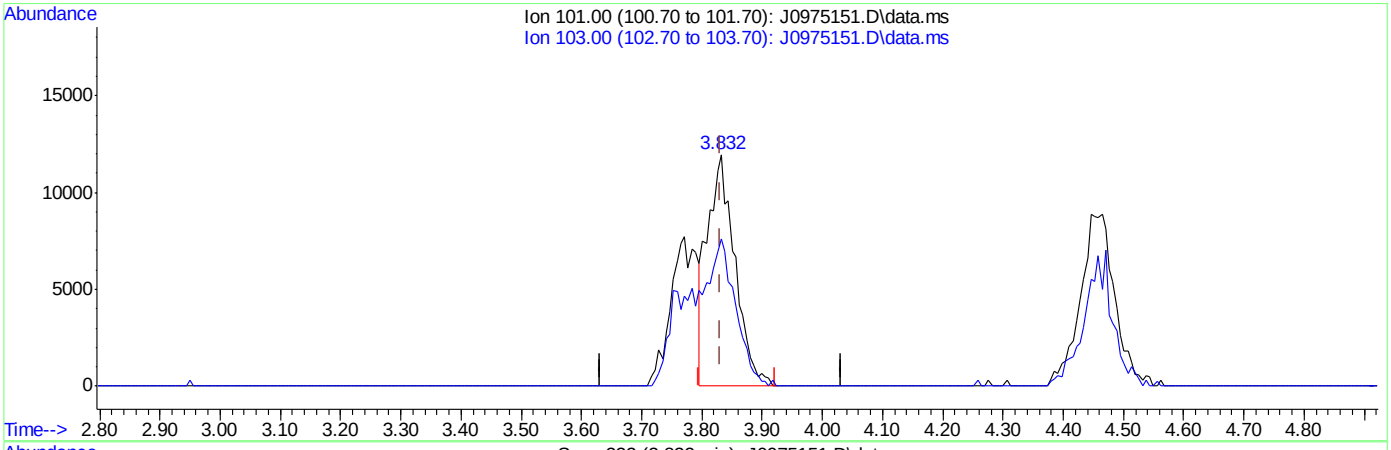
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975151.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 14:41	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

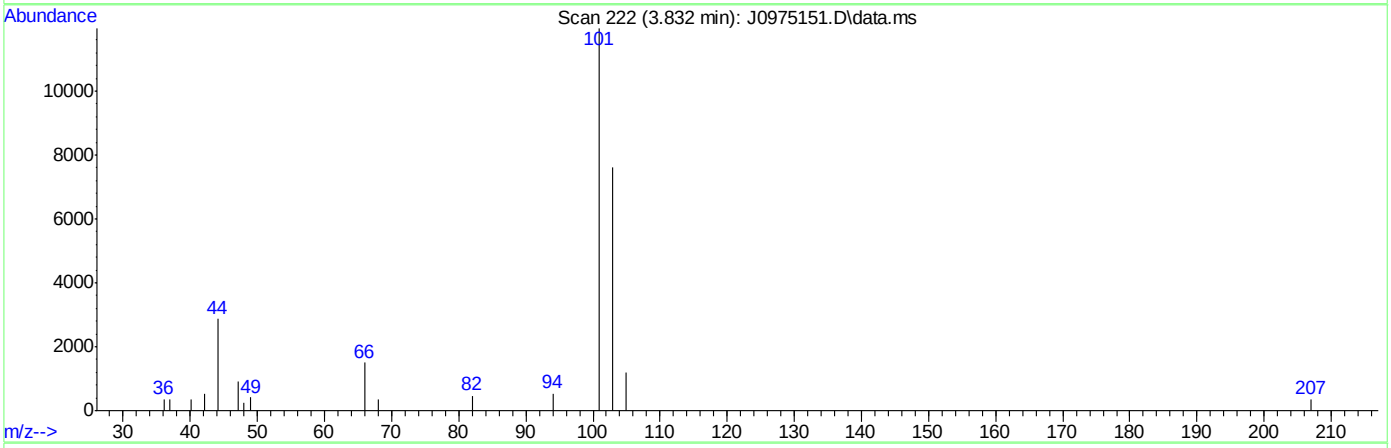
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration

Quantitation Report (Qedit)

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

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





TIC: J0975151.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 2.87ug/L

response 37793

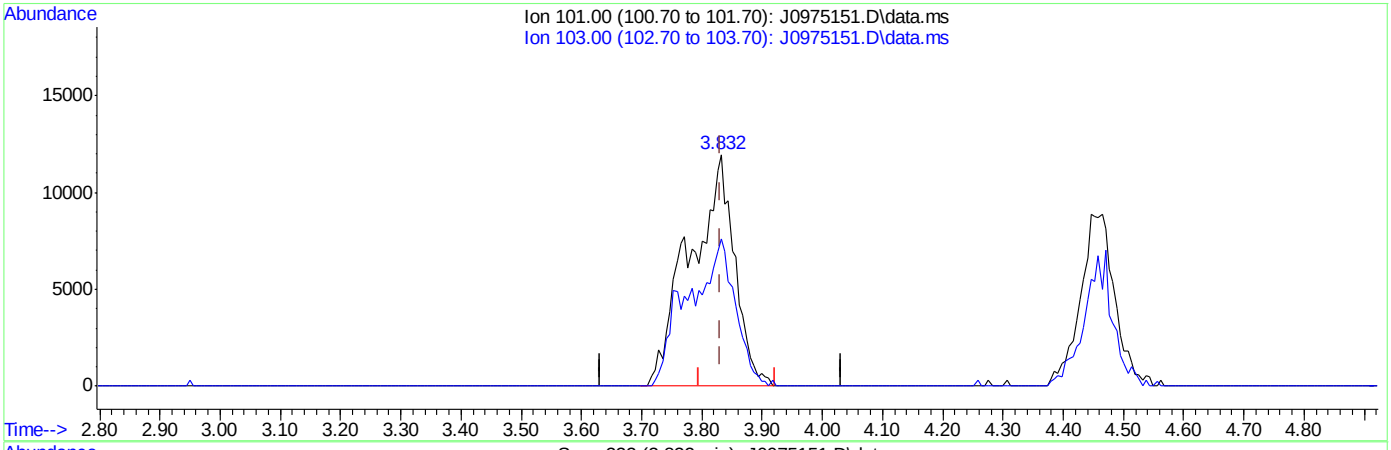
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.74
0.00	0.00	0.00
0.00	0.00	0.00

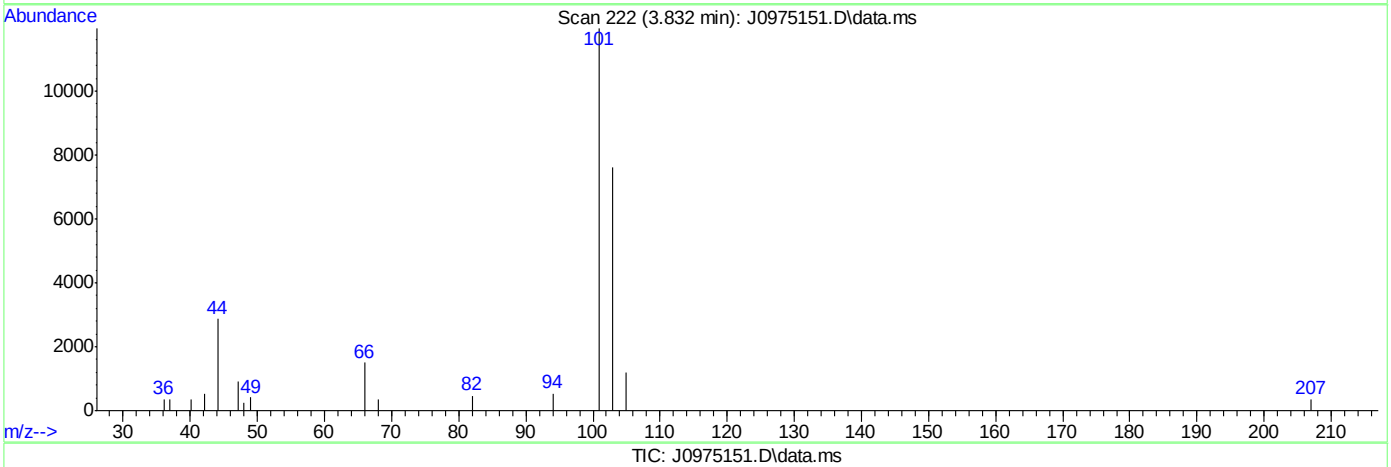
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975151.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 4.67ug/L m

response 61441

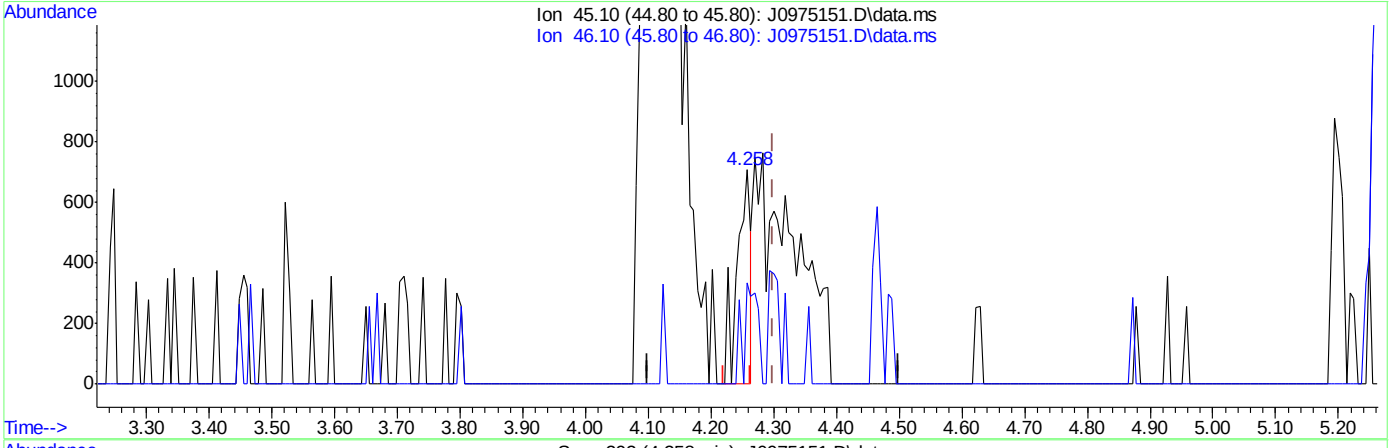
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.74
0.00	0.00	0.00
0.00	0.00	0.00

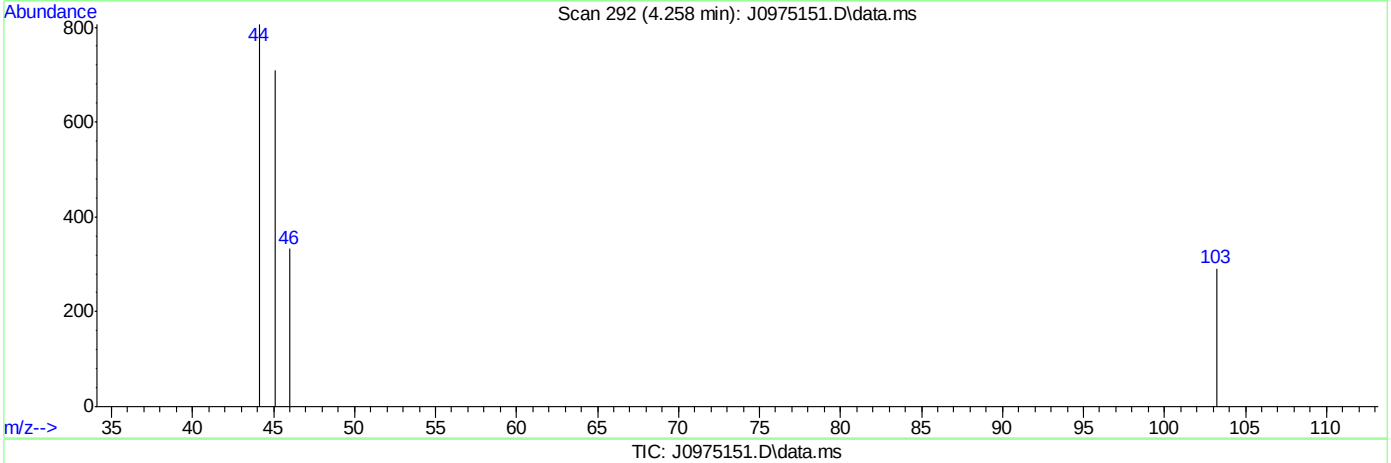
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975151.D\data.ms

(107) Ethanol

4.258min (-0.042) 31.39ug/L

response 1092

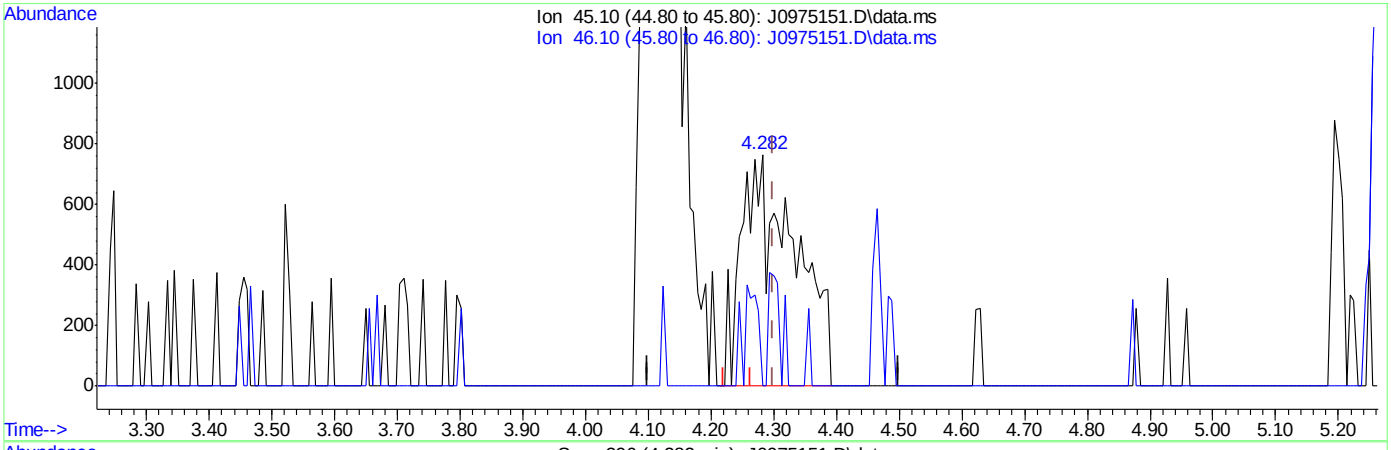
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	47.03
0.00	0.00	0.00
0.00	0.00	0.00

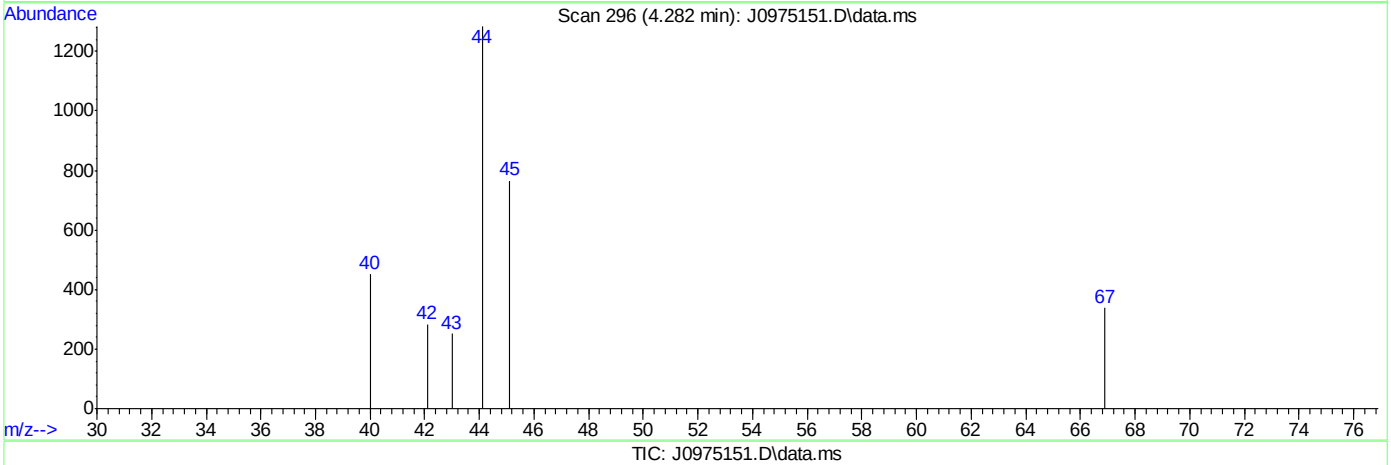
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975151.D\data.ms

(107) Ethanol

4.282min (-0.018) 130.44ug/L m

response 4538

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

SGS ACCUTEST FA33606

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

Quantitation Report (QT Reviewed)

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

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

7.6.3

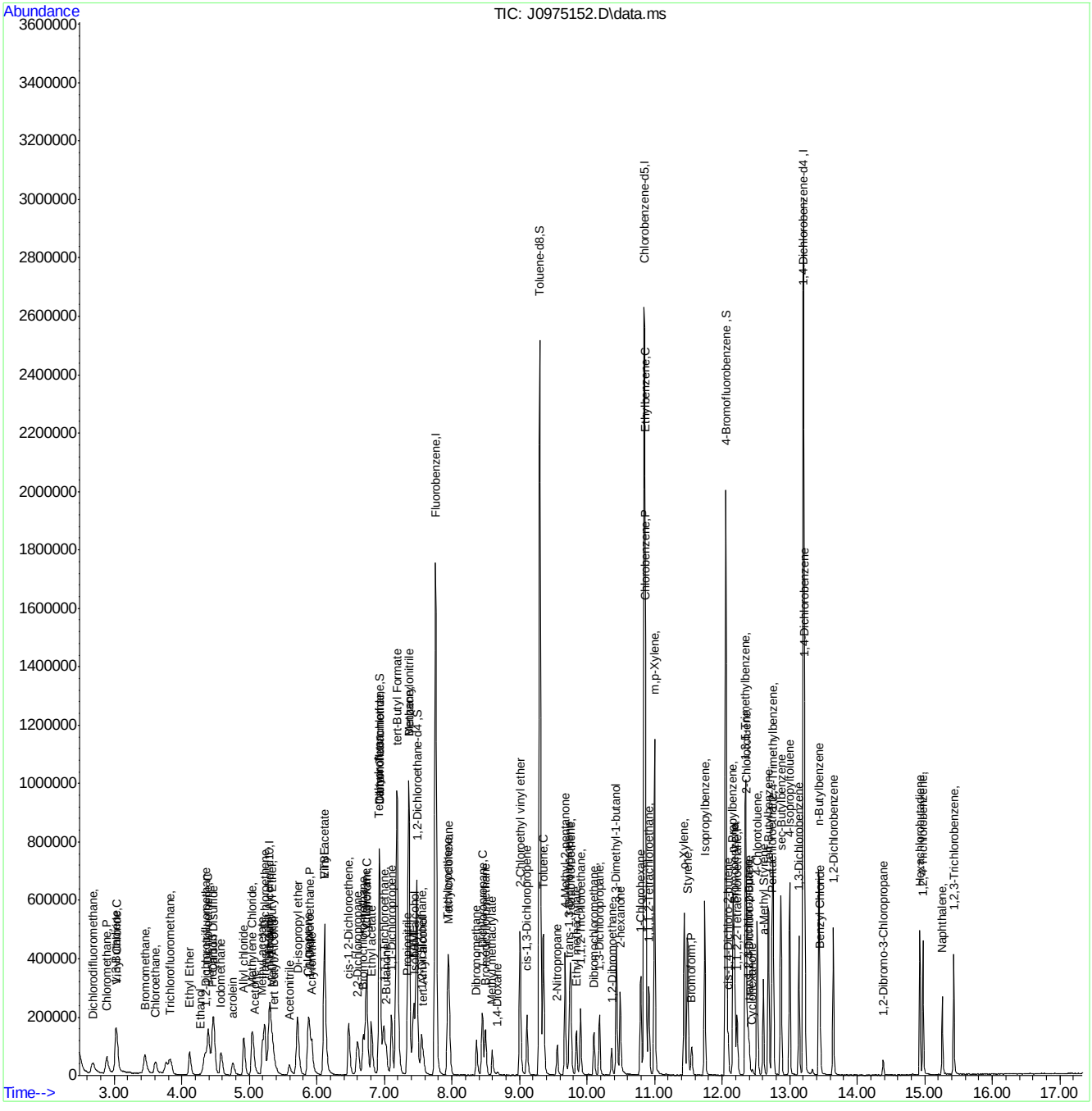
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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



Manual Integration Approval Summary

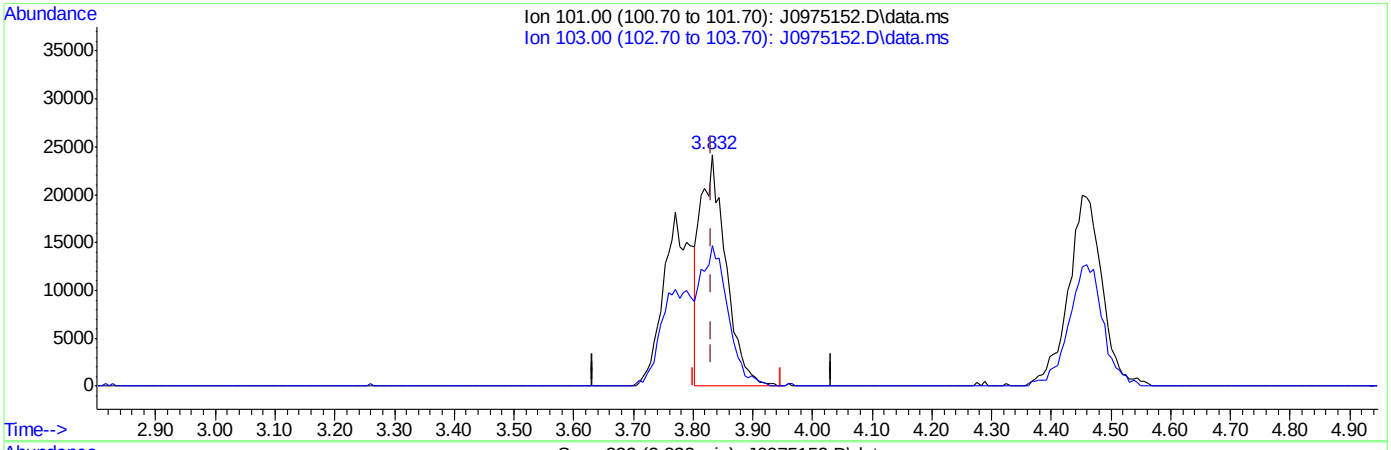
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975152.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 15:05	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

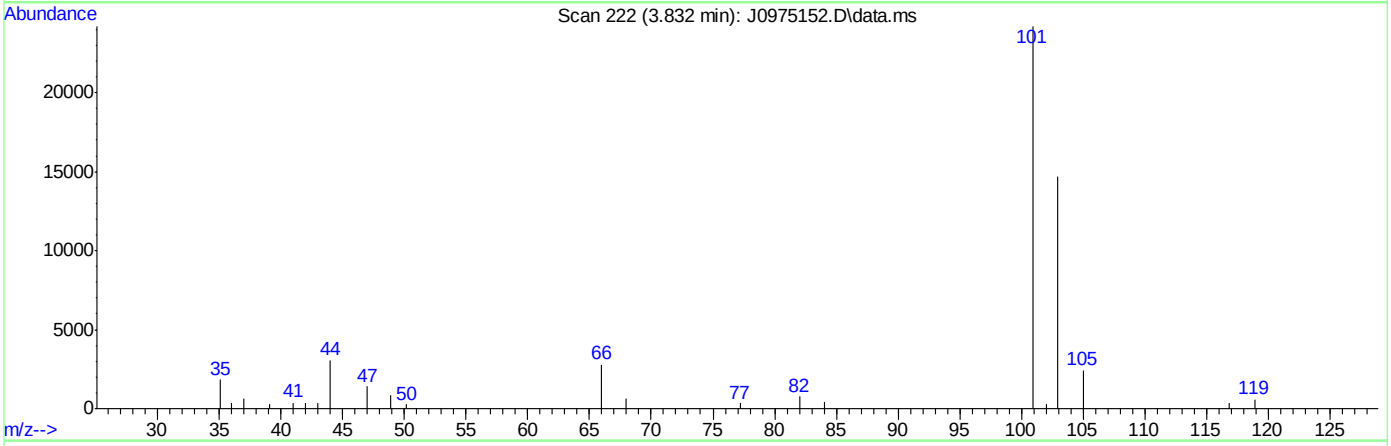
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.83	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

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

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





TIC: J0975152.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 5.33ug/L

response 72205

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

SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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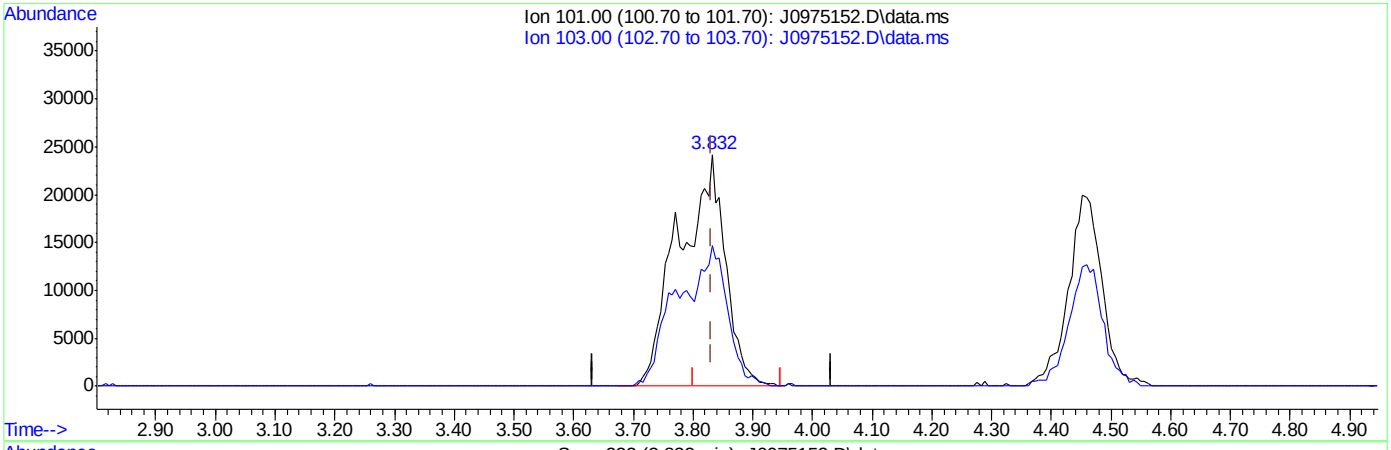
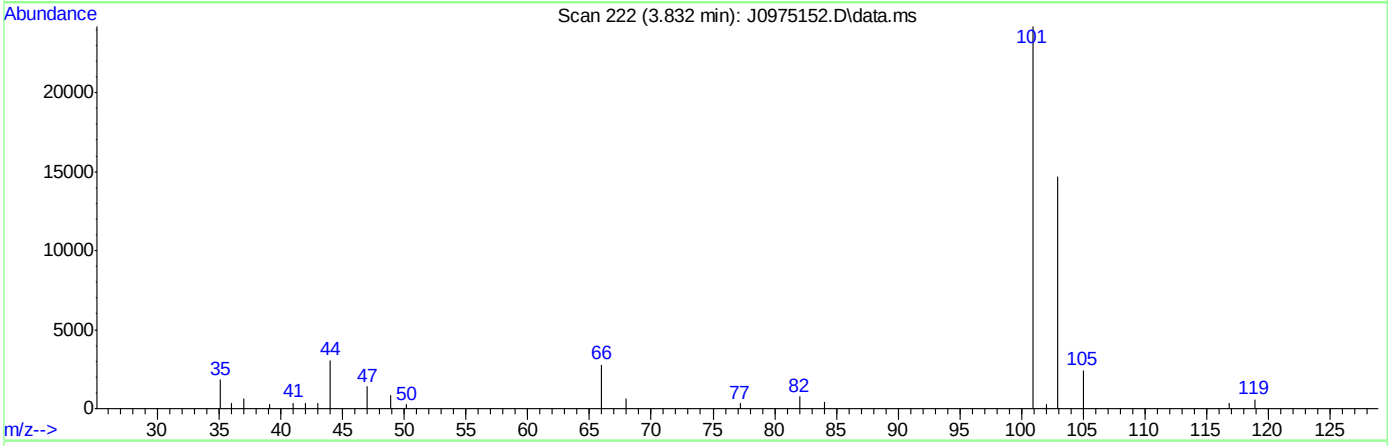




TIC: J0975152.D\data.ms

(8) Trichlorofluoromethane ( )

3.832min (-0.000) 9.58ug/L m

response 129700

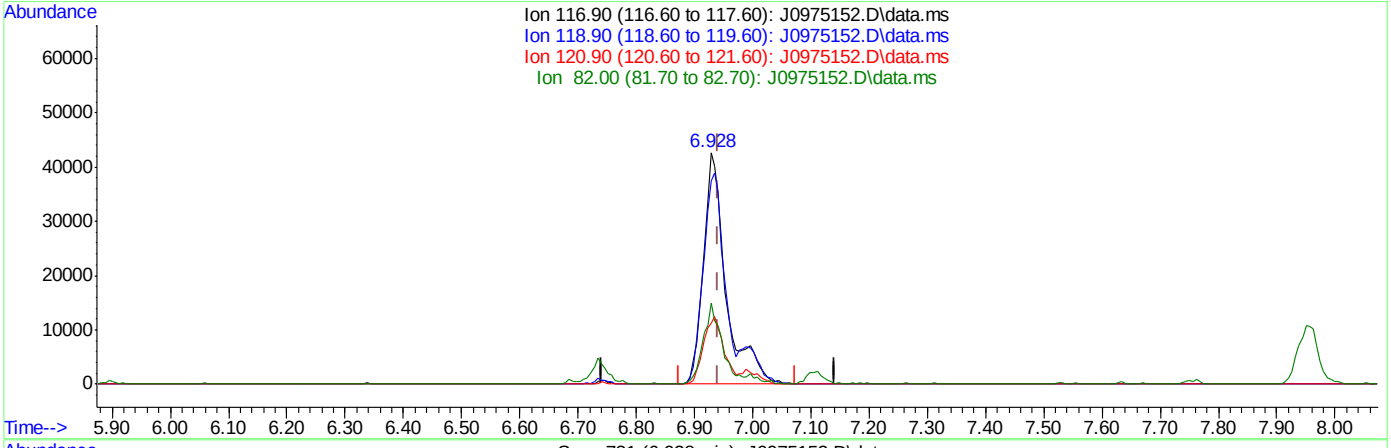
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.65
0.00	0.00	0.00
0.00	0.00	0.00

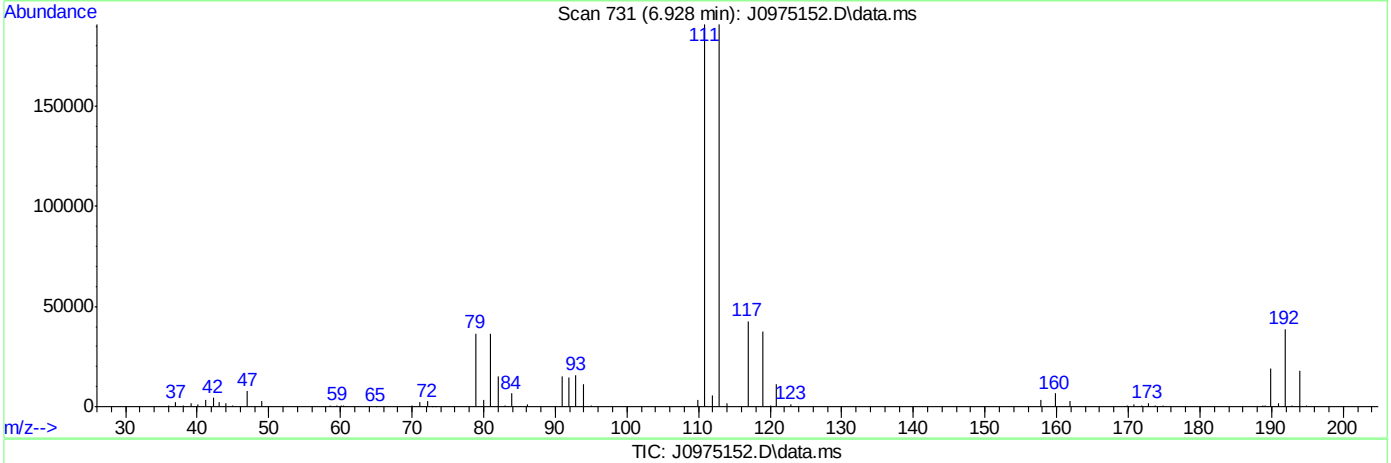
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975152.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 10.70ug/L

response 116845

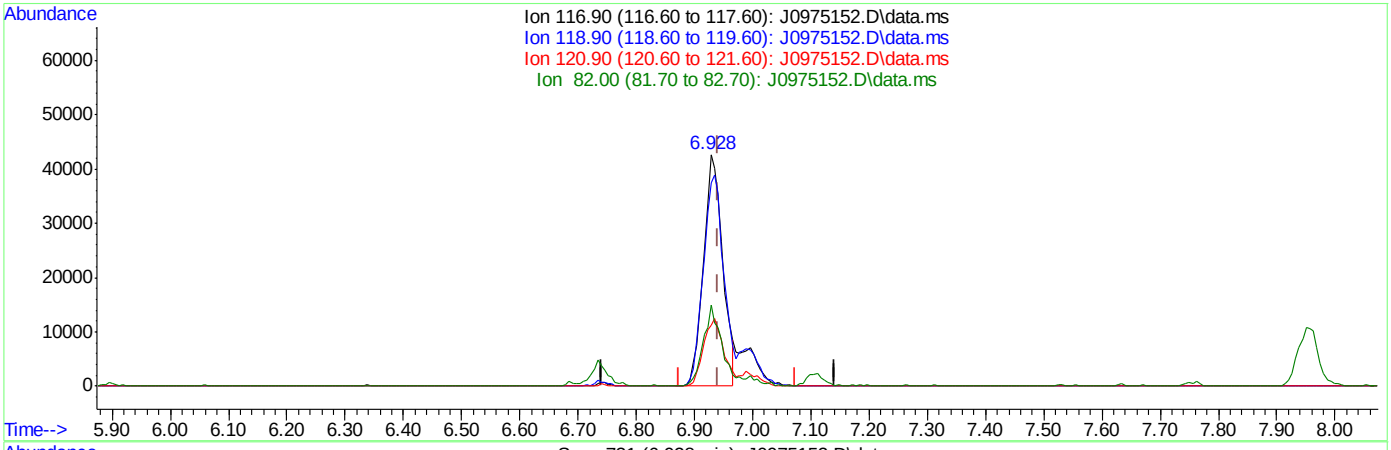
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	87.87
120.90	31.80	26.11
82.00	25.40	35.08

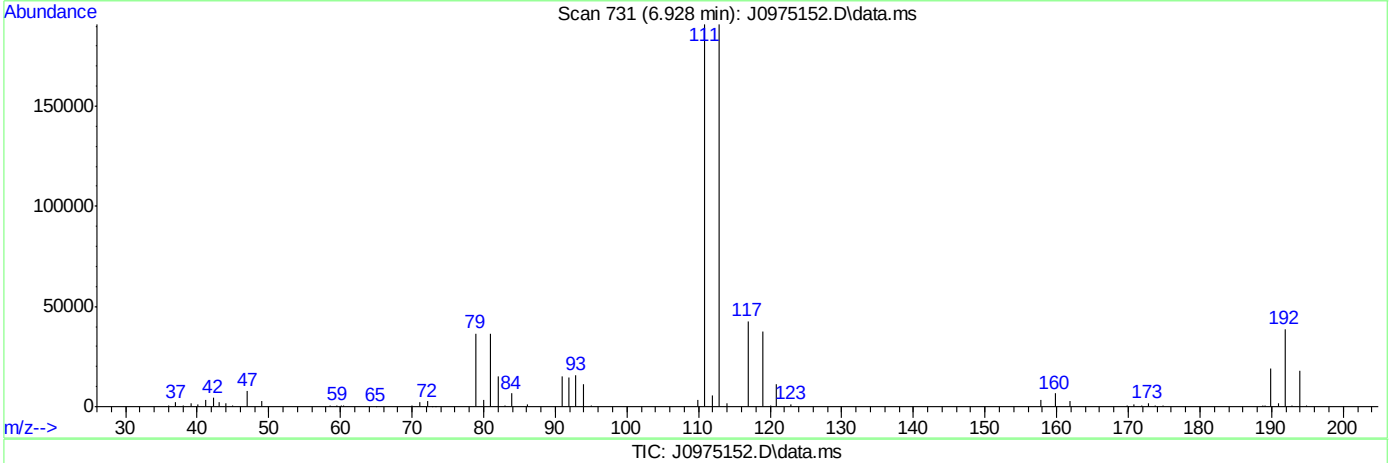
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975152.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.013) 8.99ug/L m

response 98194

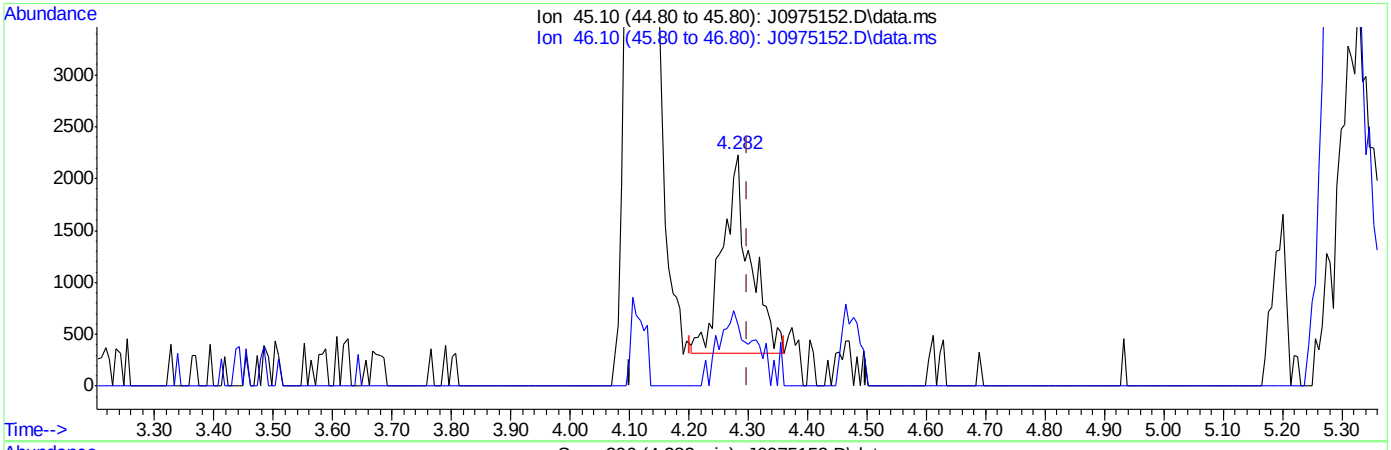
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	87.87
120.90	31.80	26.11
82.00	25.40	35.08

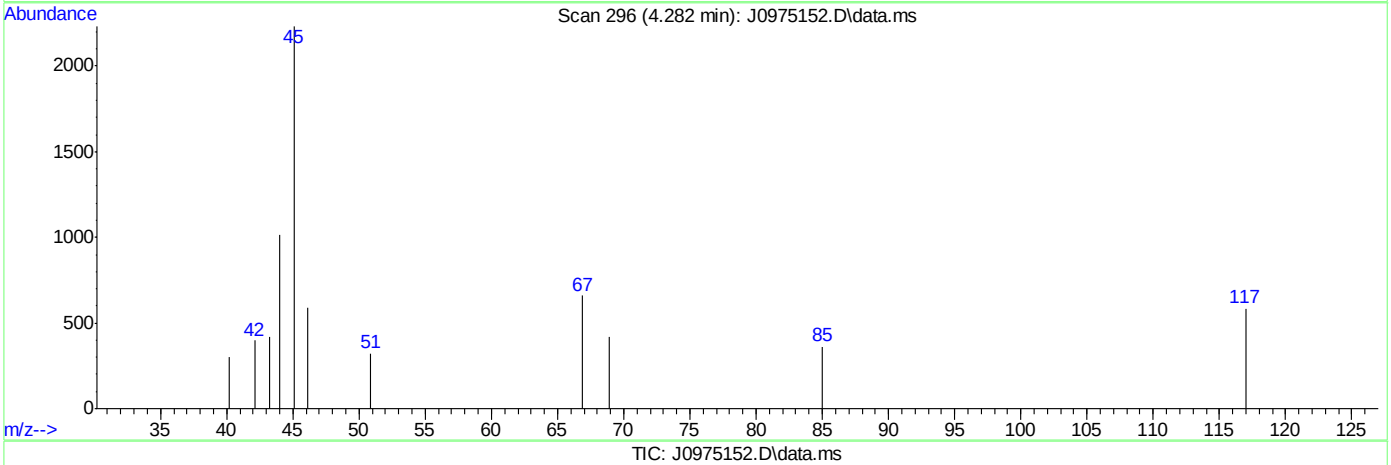
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975152.D\data.ms

(107) Ethanol

4.282min (-0.018) 164.75ug/L

response 6214

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

SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

Quant Time: Mar 16 08:17:27 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
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QLast Update : Tue Mar 15 07:56:34 2016
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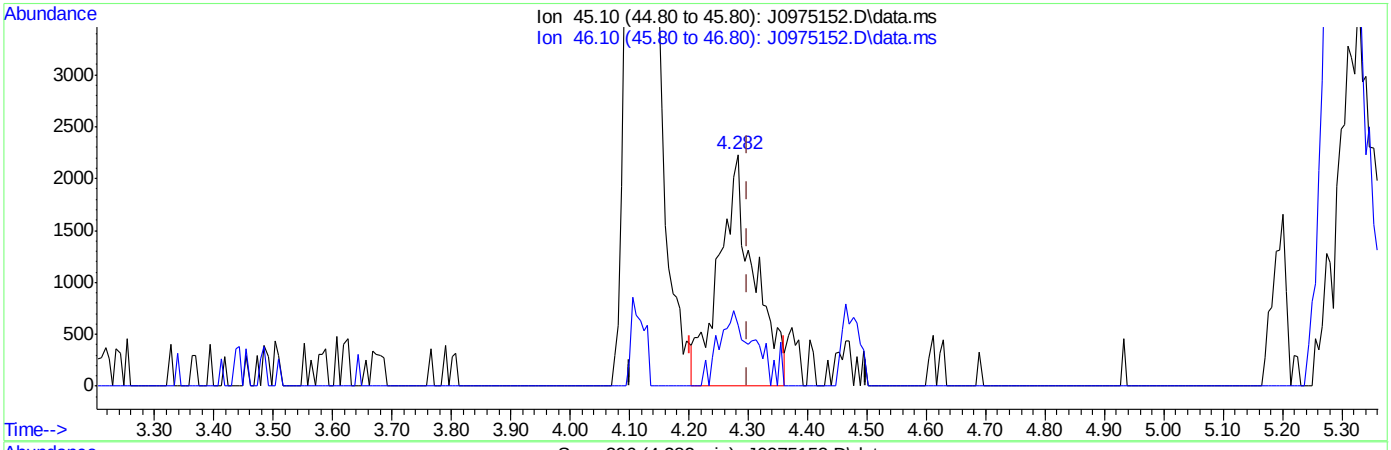
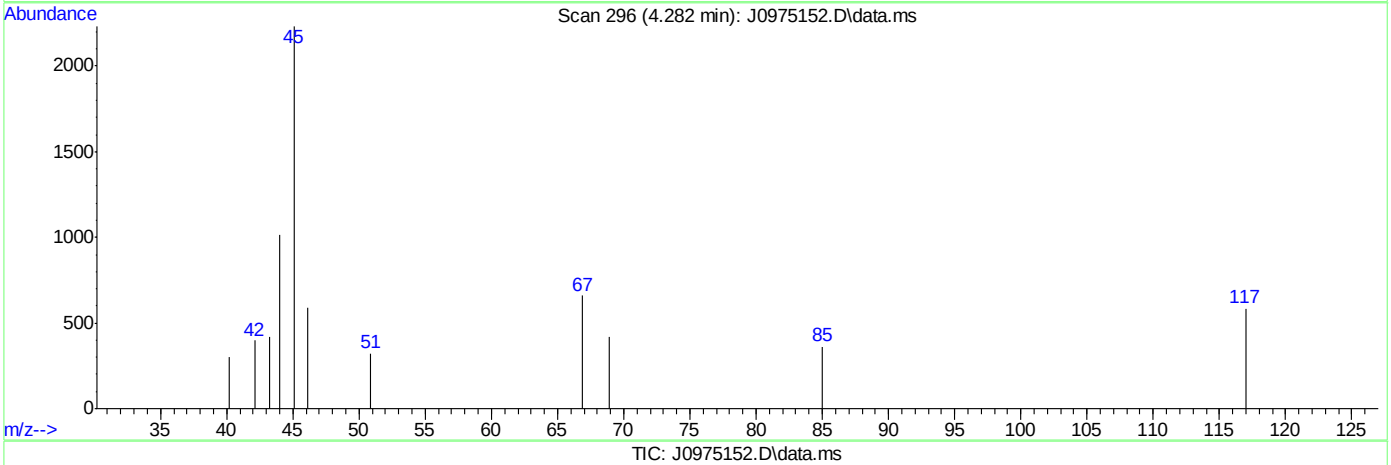




TIC: J0975152.D\data.ms

(107) Ethanol

4.282min (-0.018) 244.52ug/L m

response 9223

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

SGS ACCUTEST FA33606

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

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

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

7.6.4

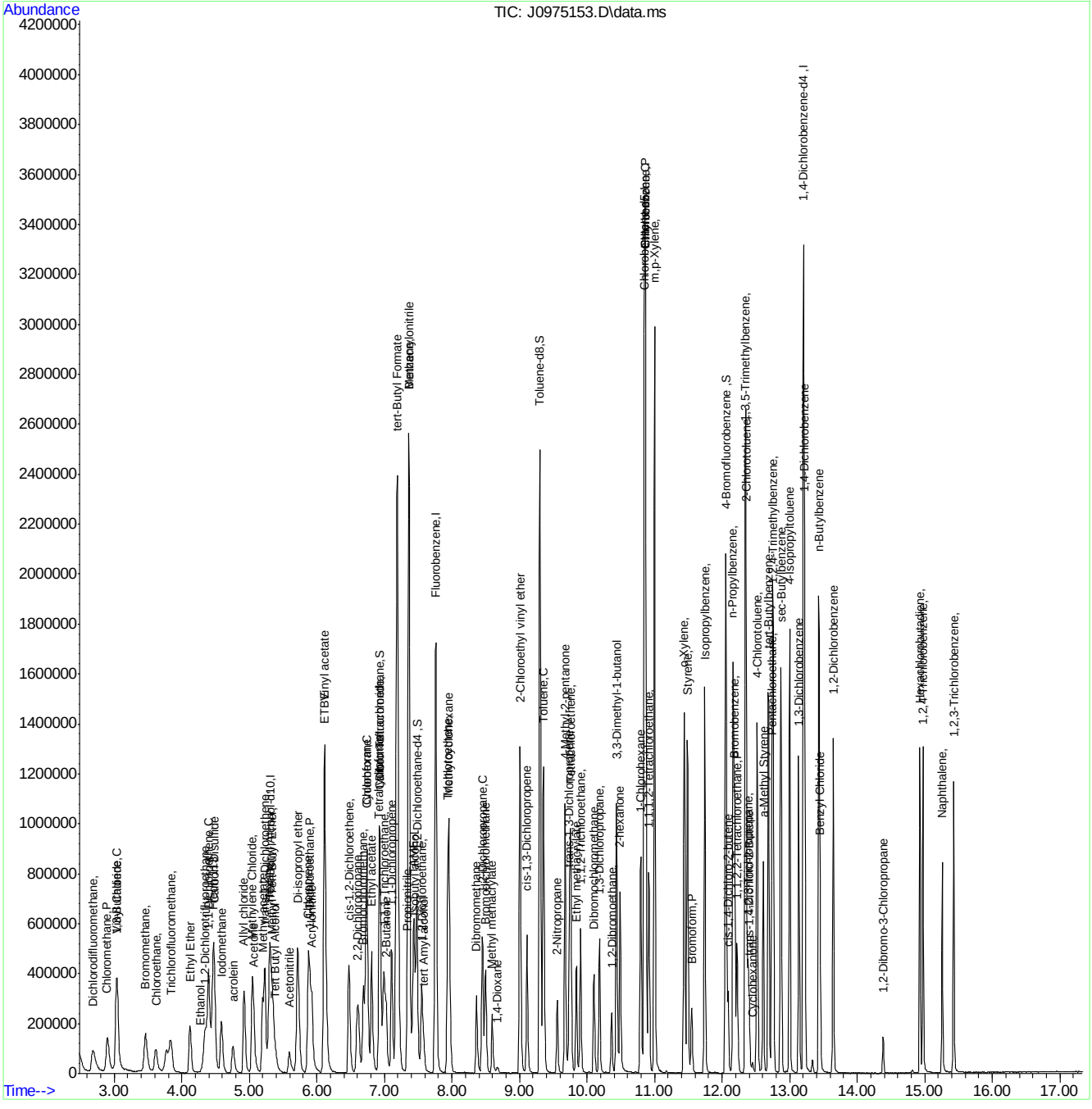
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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



SGS ACCUTEST FA33606

Manual Integration Approval Summary

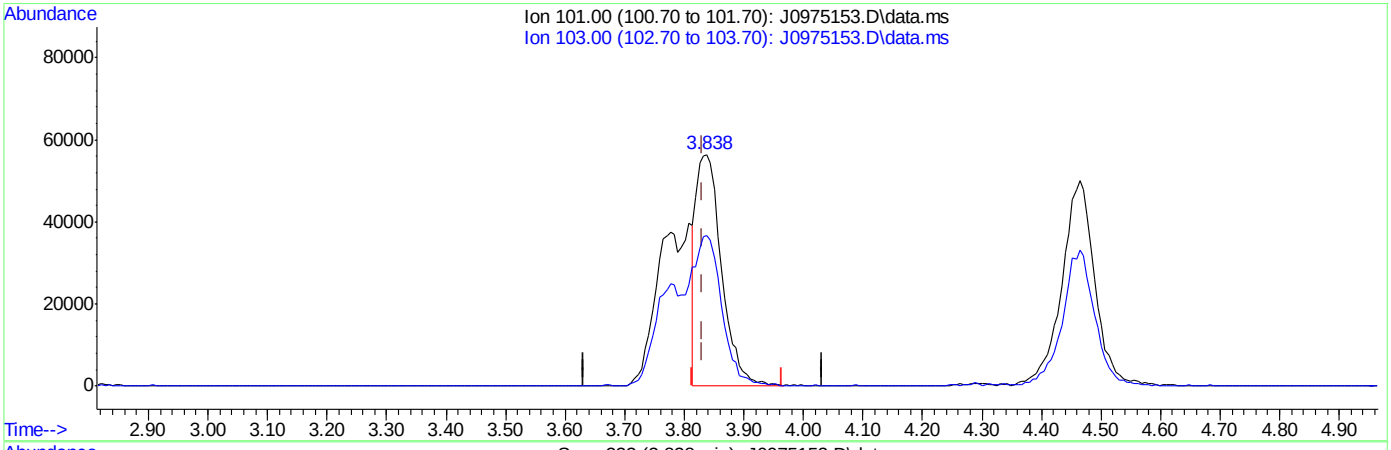
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975153.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 15:28	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

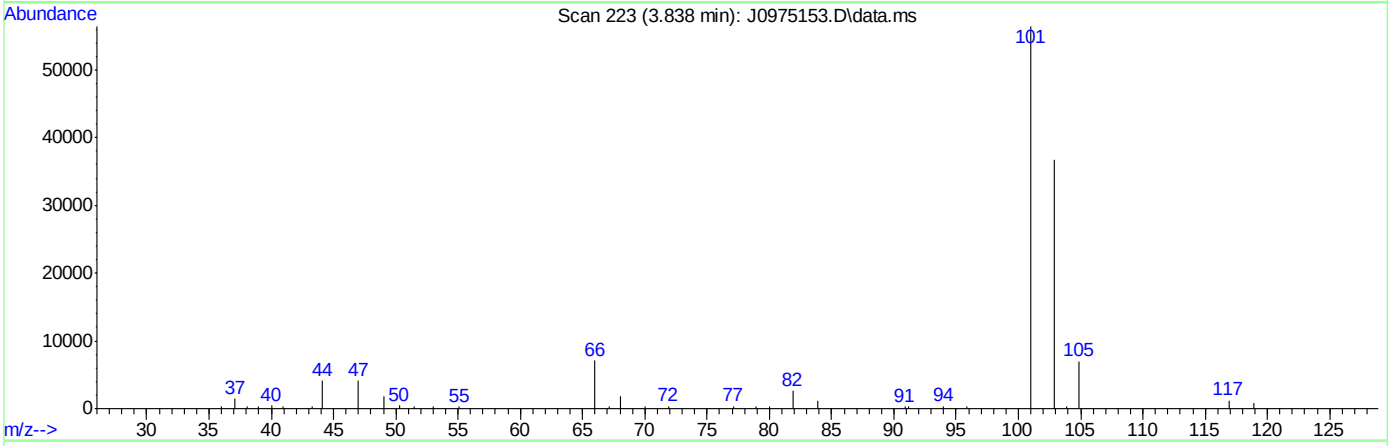
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

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

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





TIC: J0975153.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 12.38ug/L

response 166709

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

SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
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Sample : IC5237-4 Inst : MSVOA6
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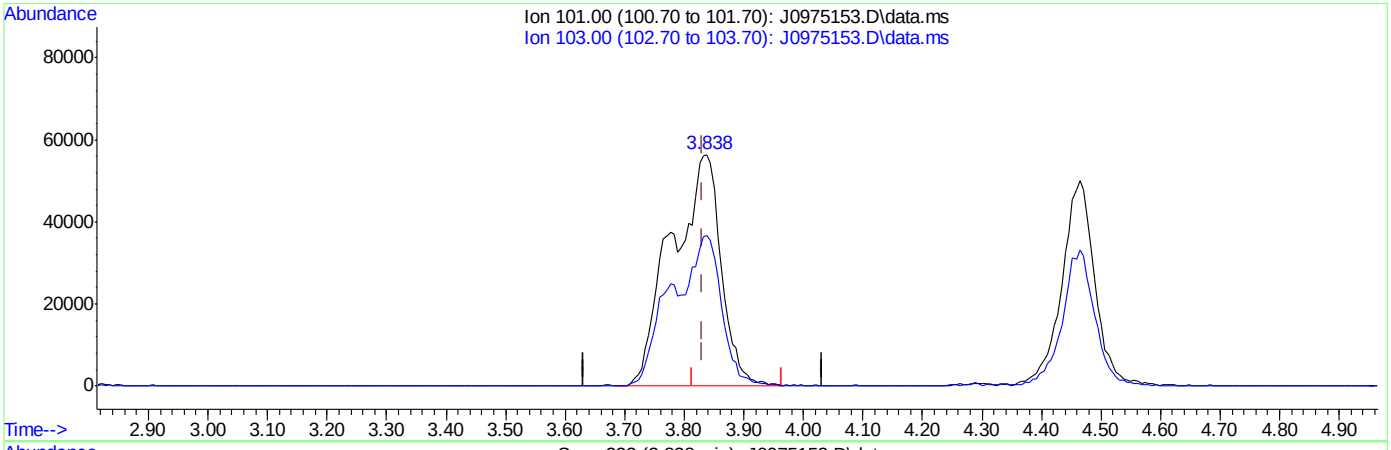
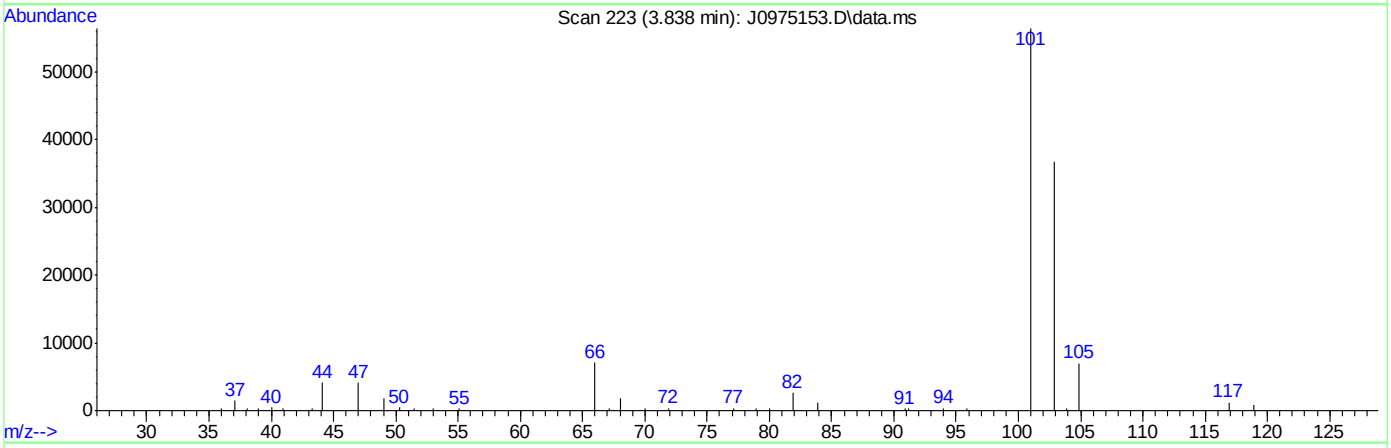




TIC: J0975153.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 24.10ug/L m

response 324542

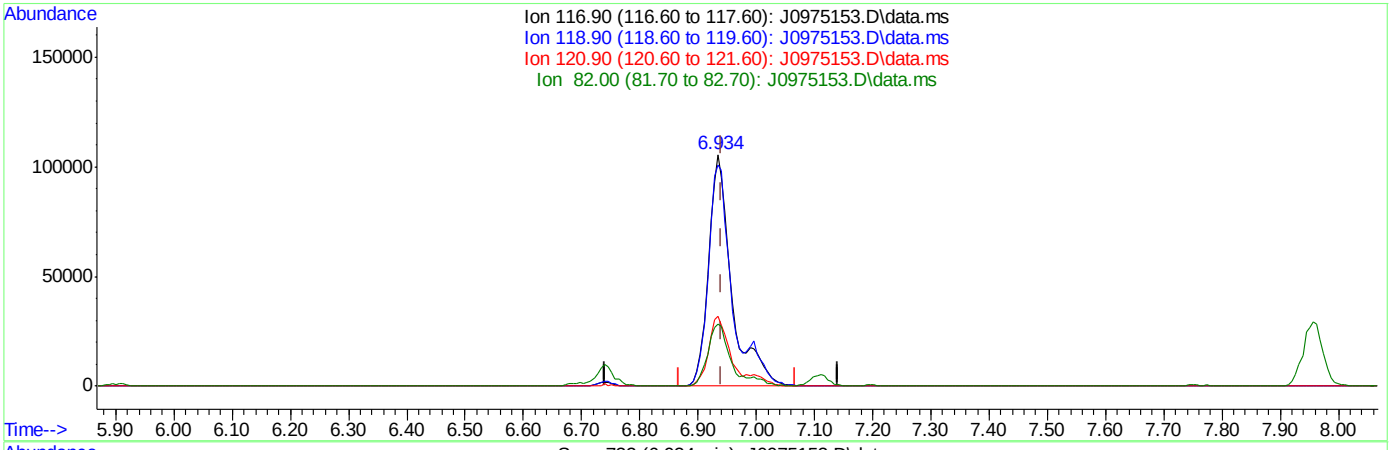
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	65.20
0.00	0.00	0.00
0.00	0.00	0.00

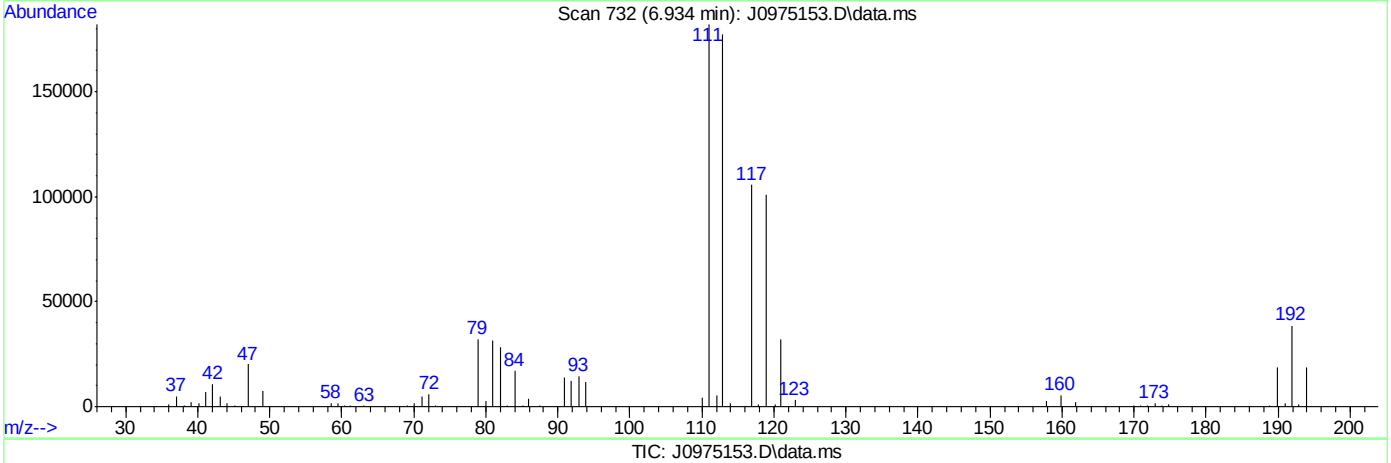
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975153.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 27.13ug/L

response 294752

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

SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975153.D
Acq On : 15 Mar 2016 3:28 pm
Operator : DARSHNAP
Sample : IC5237-4 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
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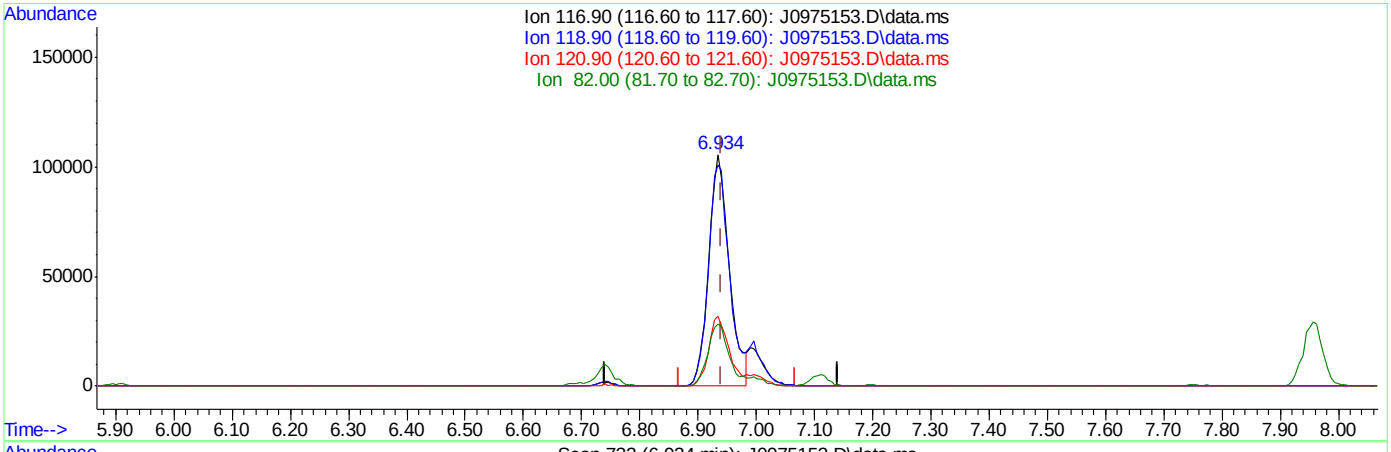
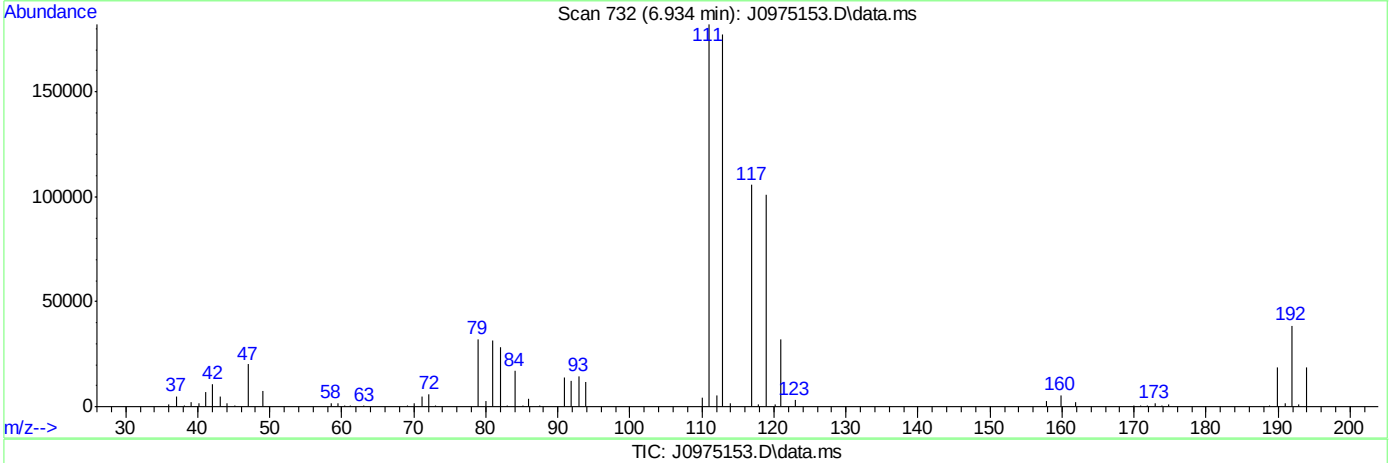
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975153.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 24.16ug/L m

response 262480

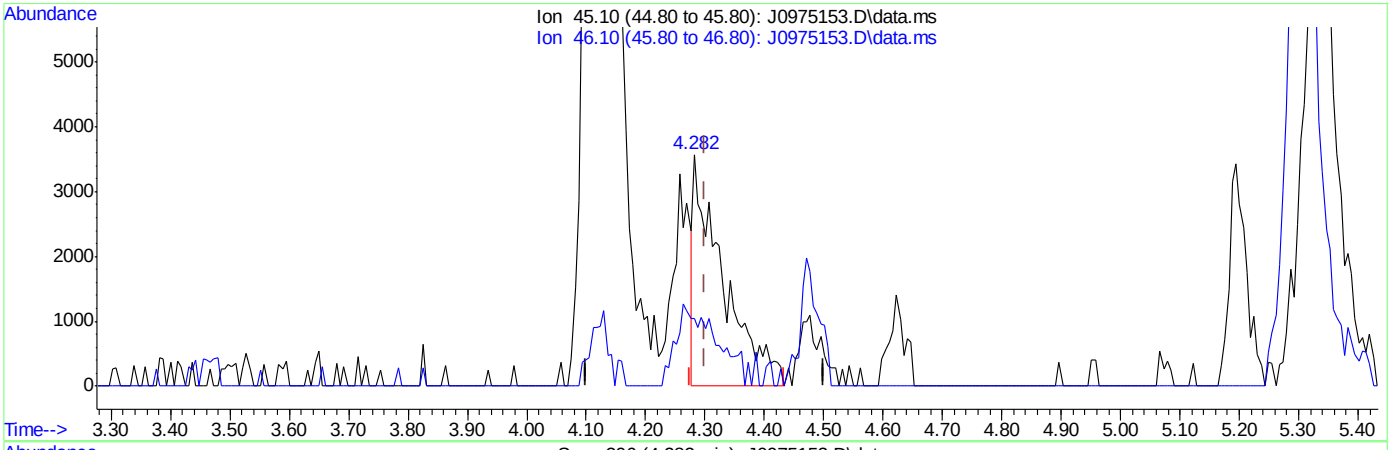
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.48
120.90	31.80	30.27
82.00	25.40	26.77

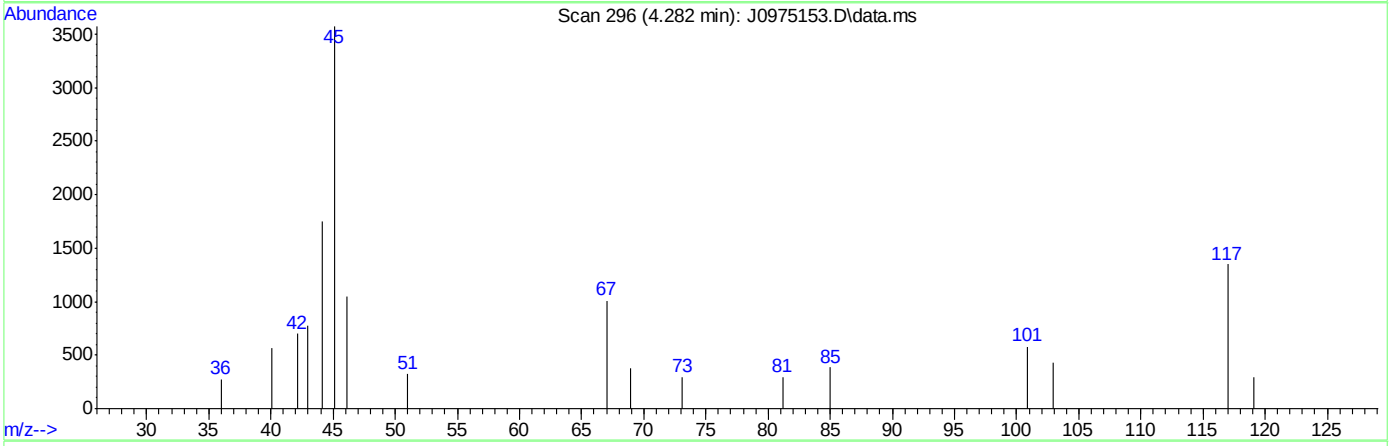
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975153.D\data.ms

(107) Ethanol

4.282min (-0.018) 352.95ug/L

response 12369

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

SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

Quant Time: Mar 16 08:17:30 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
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QLast Update : Tue Mar 15 07:56:34 2016
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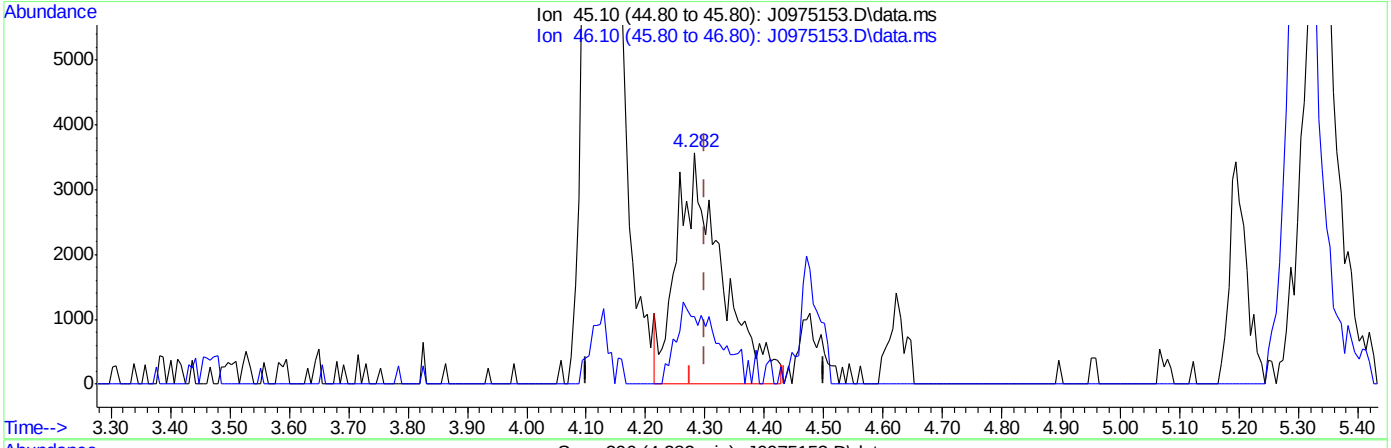
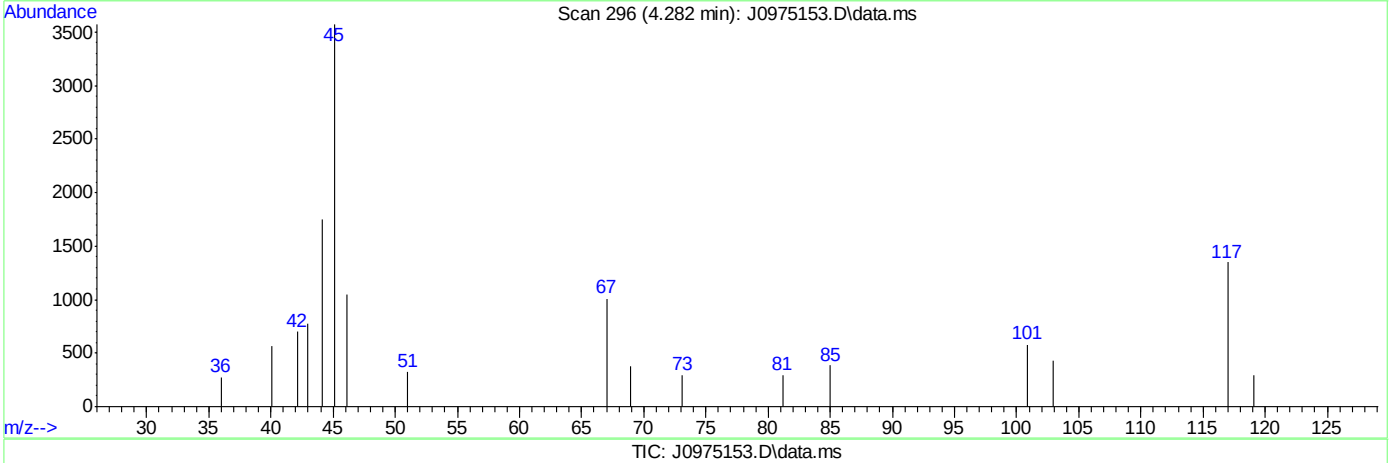




TIC: J0975153.D\data.ms

(107) Ethanol

4.282min (-0.018) 535.26ug/L m

response 18758

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

SGS ACCUTEST FA33606

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

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

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

7.6.5

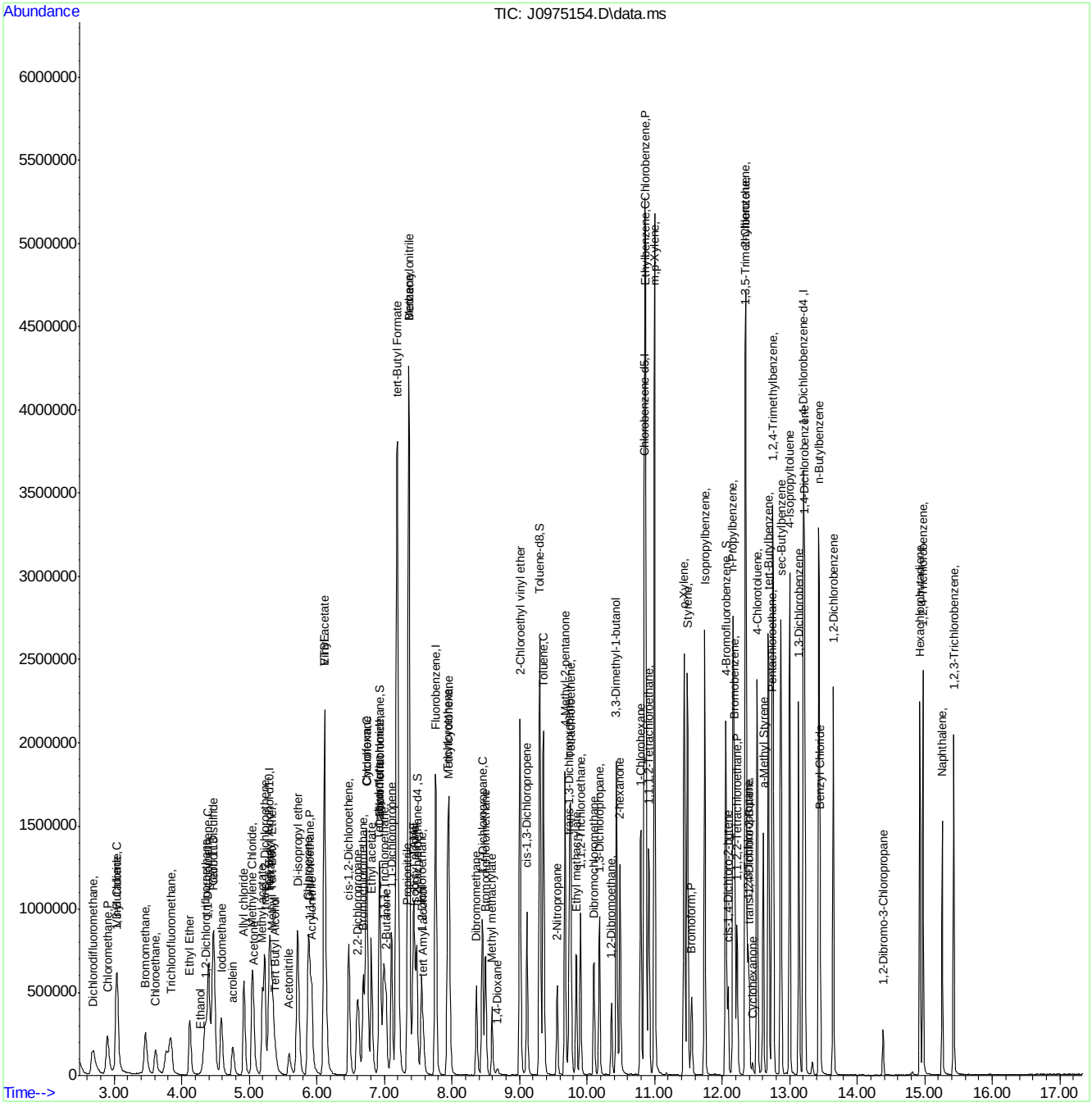
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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



SGS ACCUTEST FA33606

Manual Integration Approval Summary

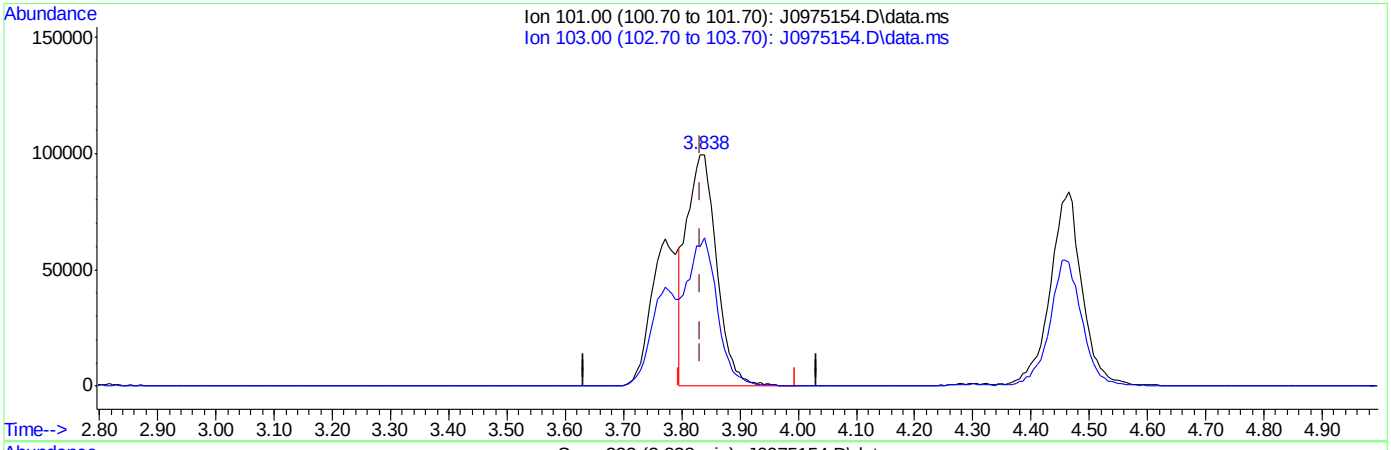
Sample Number:	VJ5237-ICC5237	**Method:**	SW846 8260B
Lab FileID:	J0975154.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 15:51	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

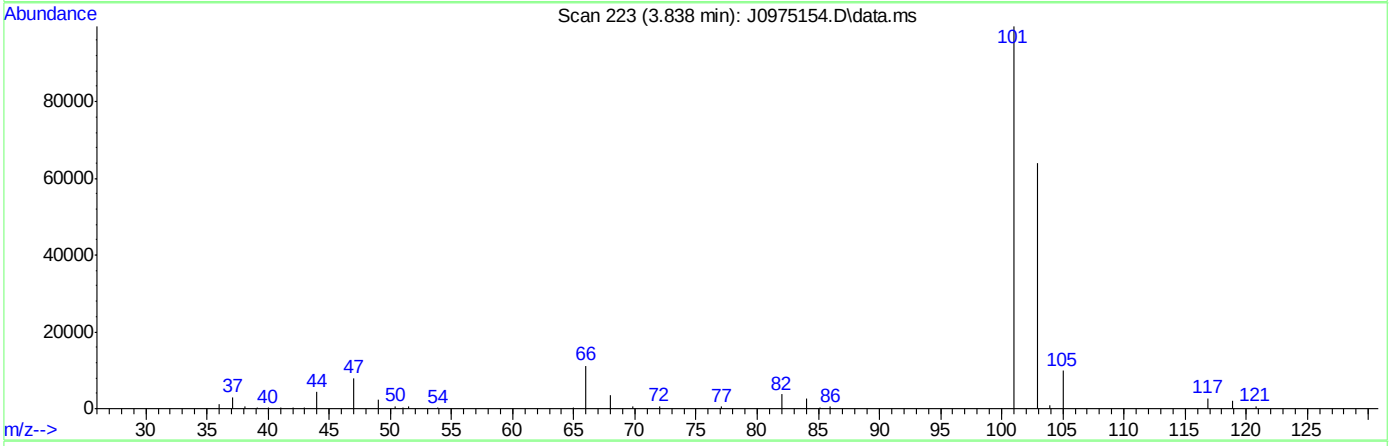
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

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

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





TIC: J0975154.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 25.59ug/L

response 356542

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

SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
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Quant Title : SW-846 Method 5030B/8260B & EPA 624
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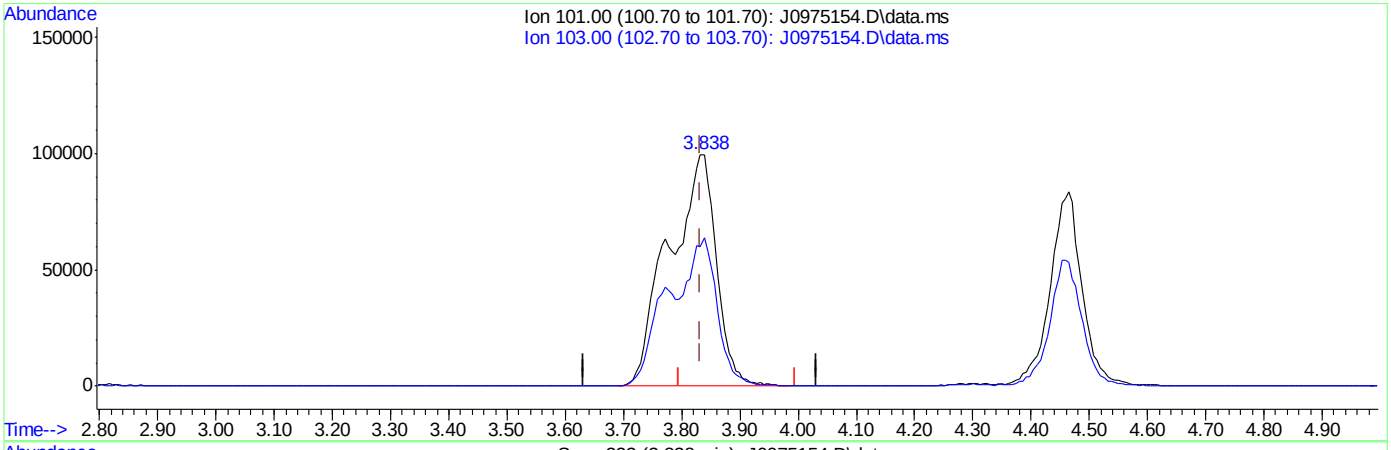
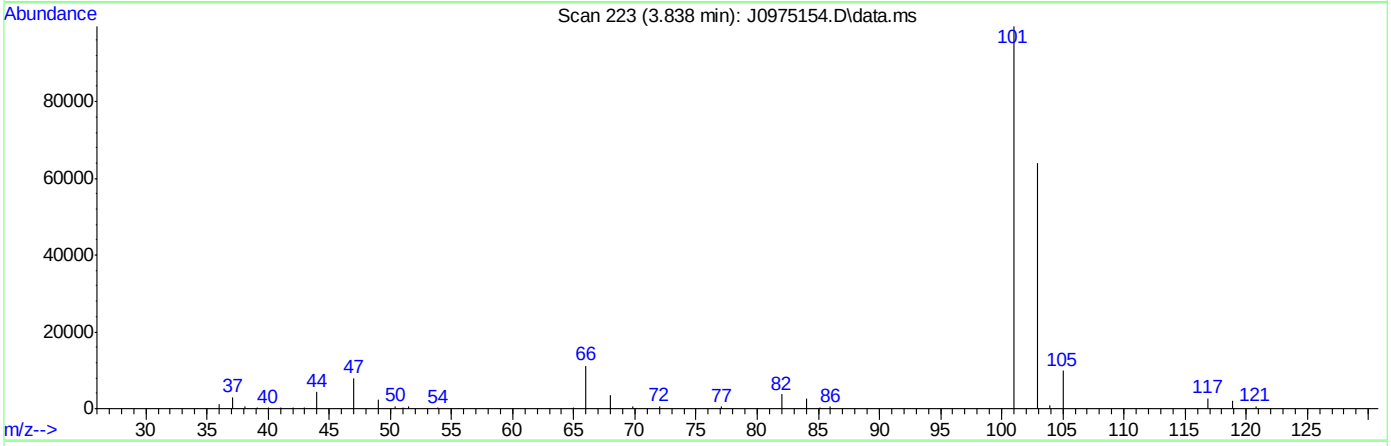




TIC: J0975154.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 40.27ug/L m

response 561191

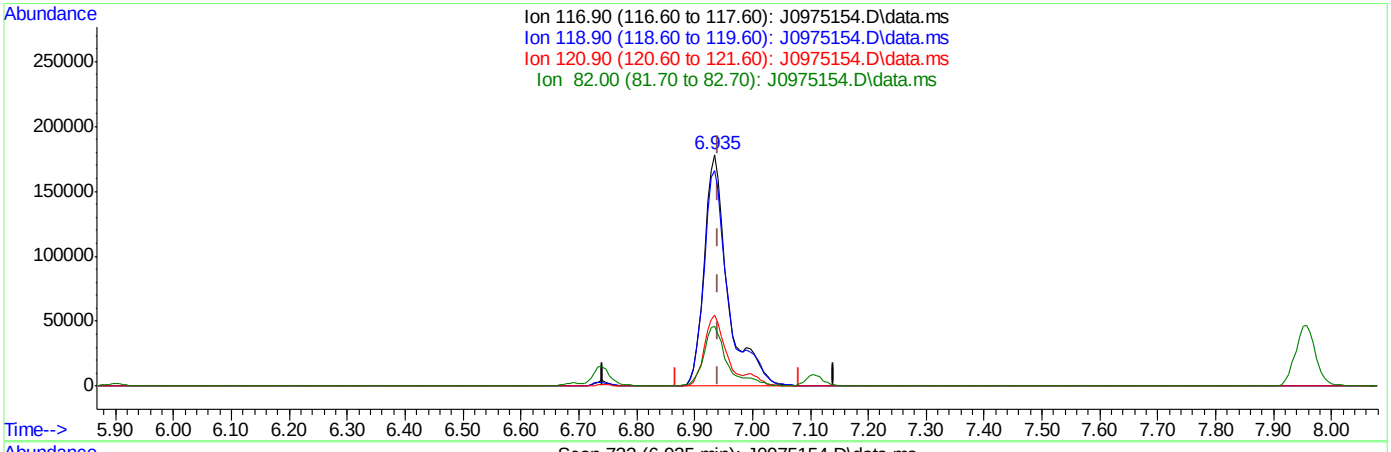
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.12
0.00	0.00	0.00
0.00	0.00	0.00

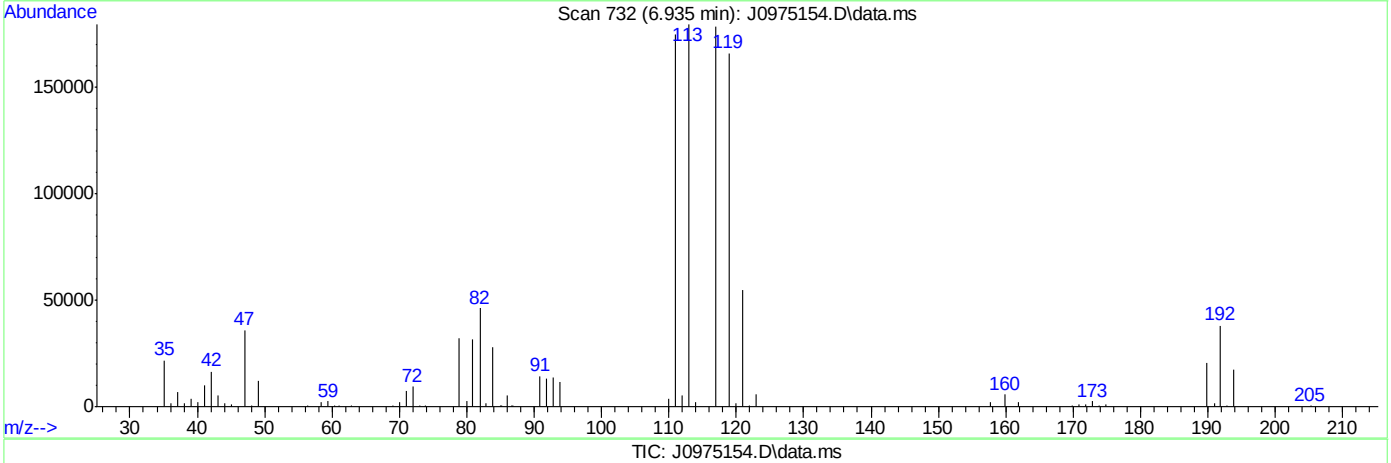
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975154.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 45.76ug/L

response 514333

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

SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975154.D
Acq On : 15 Mar 2016 3:51 pm
Operator : DARSHNAP
Sample : ICC5237-5 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
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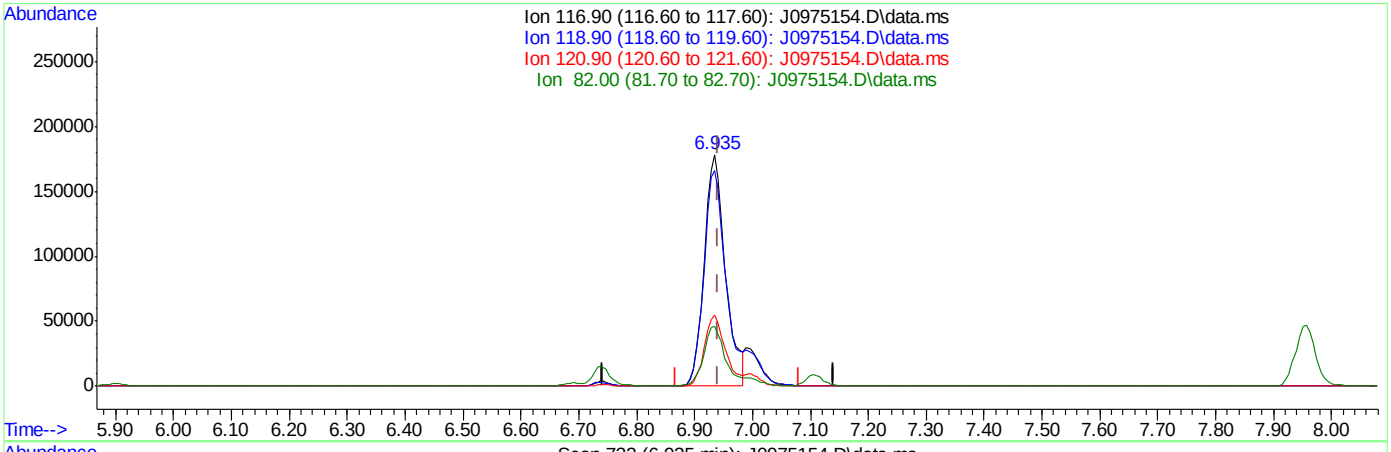
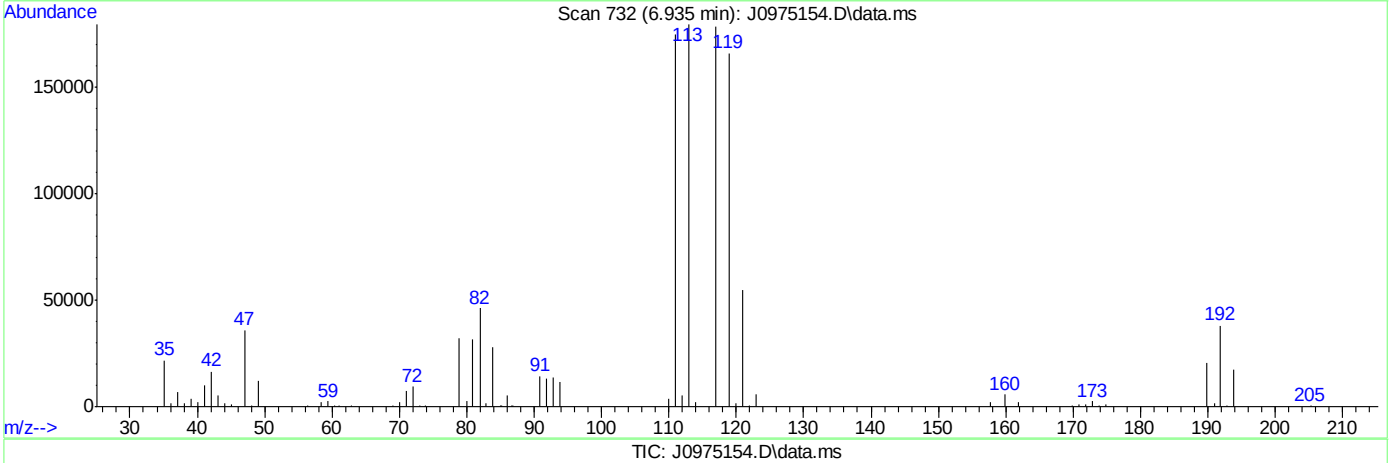
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975154.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 40.87ug/L m

response 459299

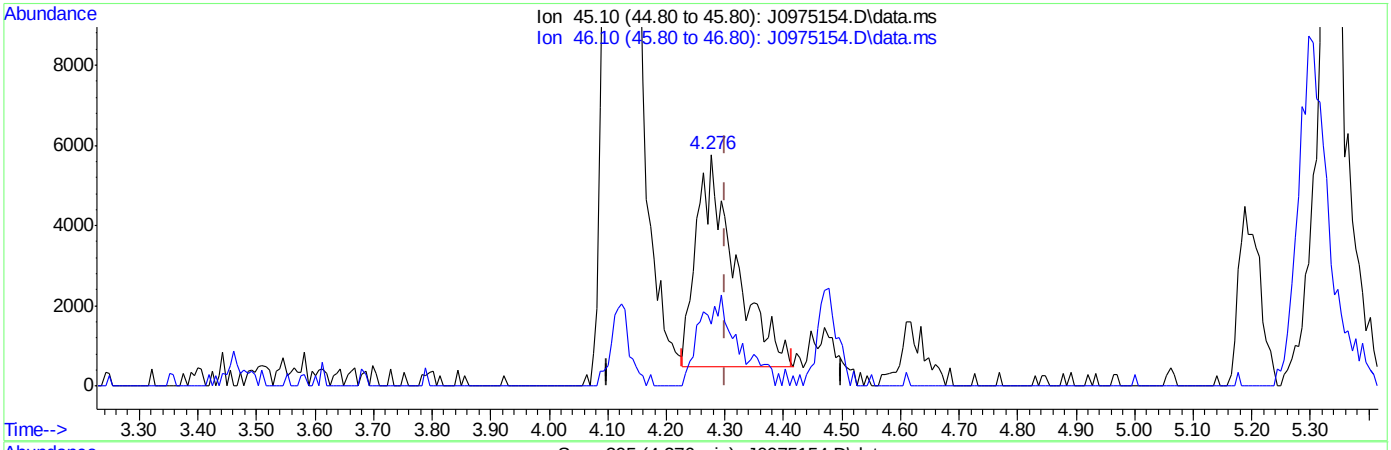
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	92.97
120.90	31.80	30.81
82.00	25.40	25.83

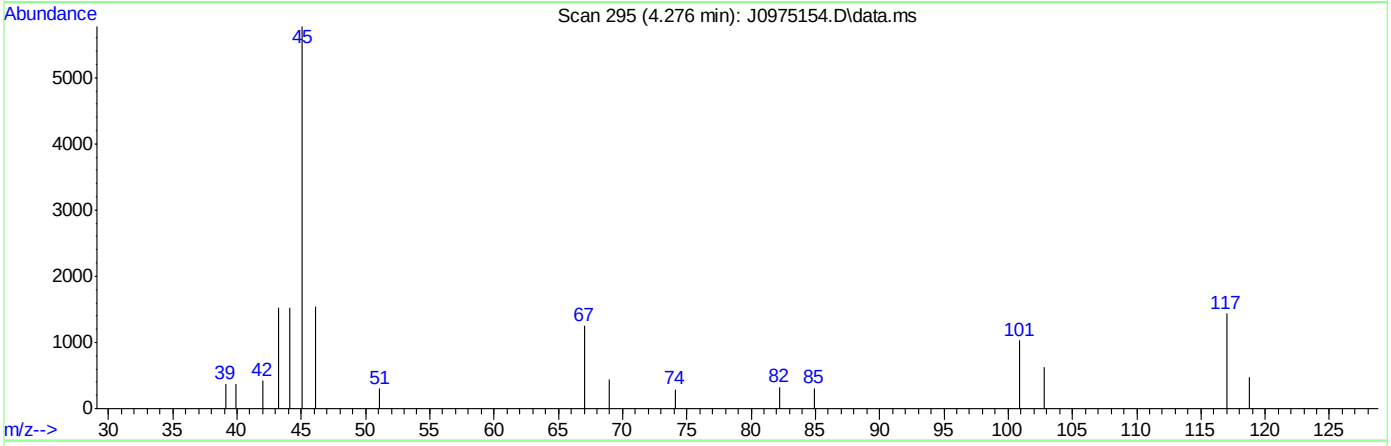
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975154.D\data.ms

(107) Ethanol

4.276min (-0.024) 648.61ug/L

response 24343

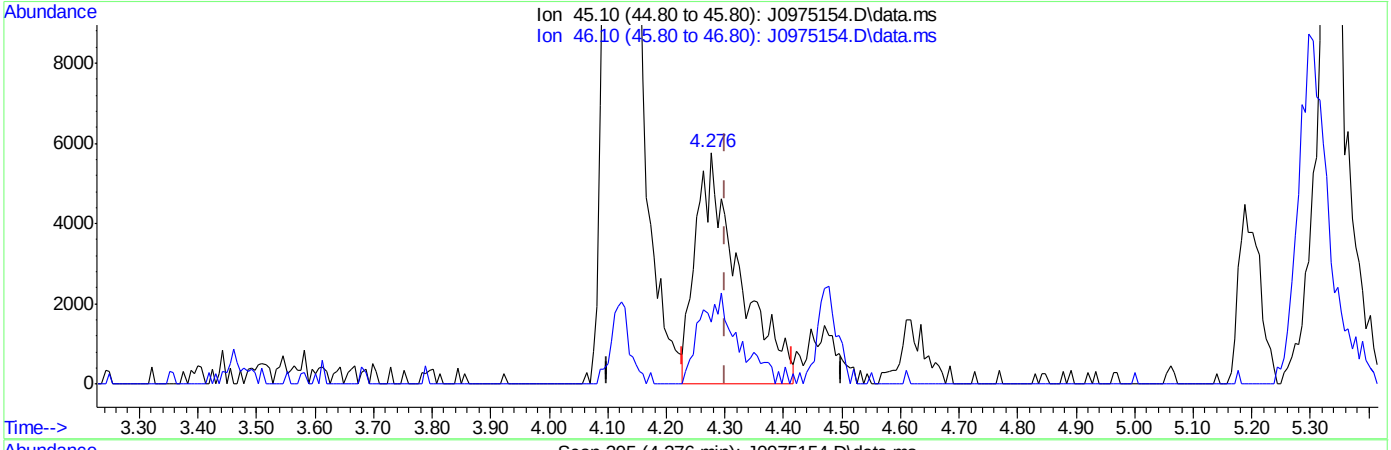
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.18
0.00	0.00	0.00
0.00	0.00	0.00

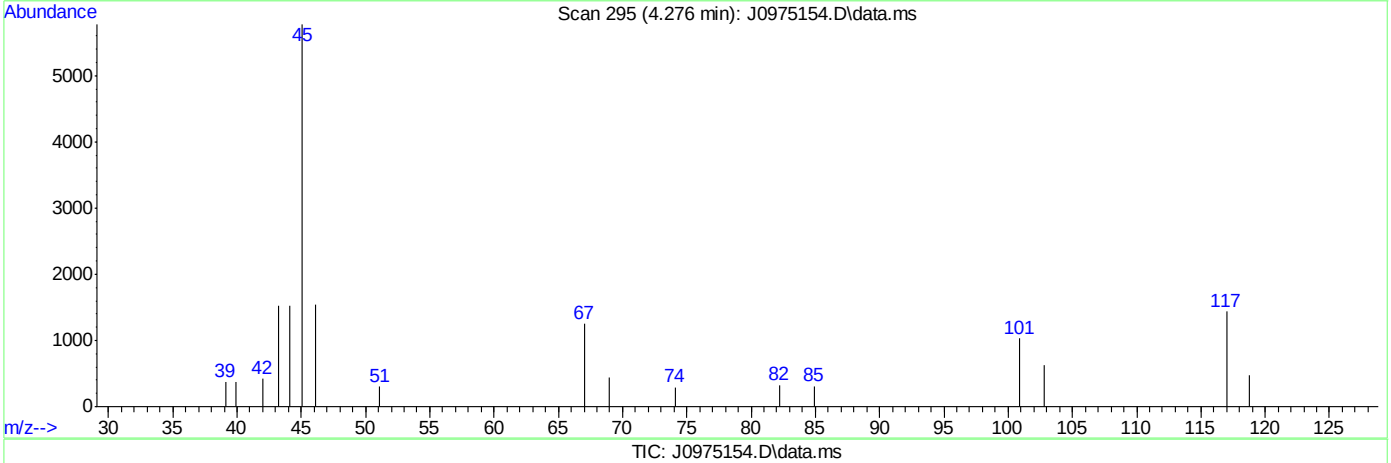
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975154.D\data.ms

(107) Ethanol

4.276min (-0.024) 791.51ug/L m

response 29706

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

SGS ACCUTEST FA33606

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

Quantitation Report (QT Reviewed)

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

7.6.6

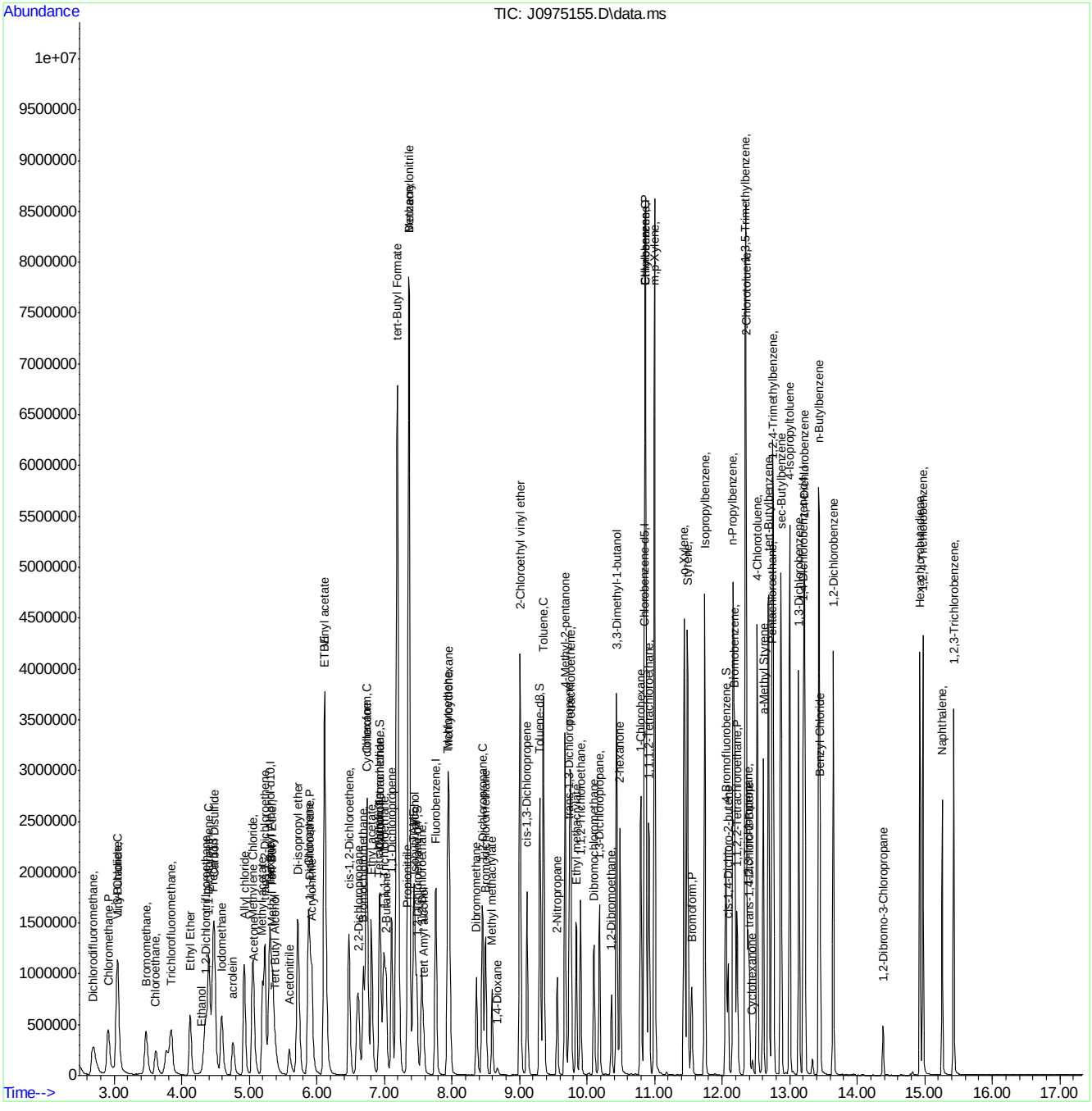
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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



SGS ACCUTEST FA33606

Manual Integration Approval Summary

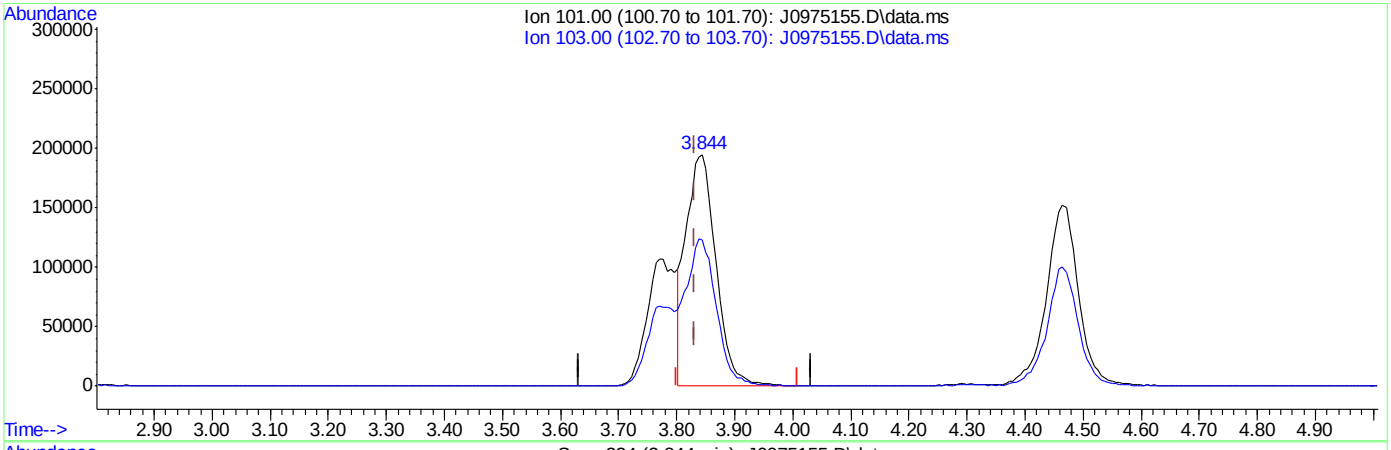
Sample Number:	VJ5237-IC5237	**Method:**	SW846 8260B
Lab FileID:	J0975155.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 16:15	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

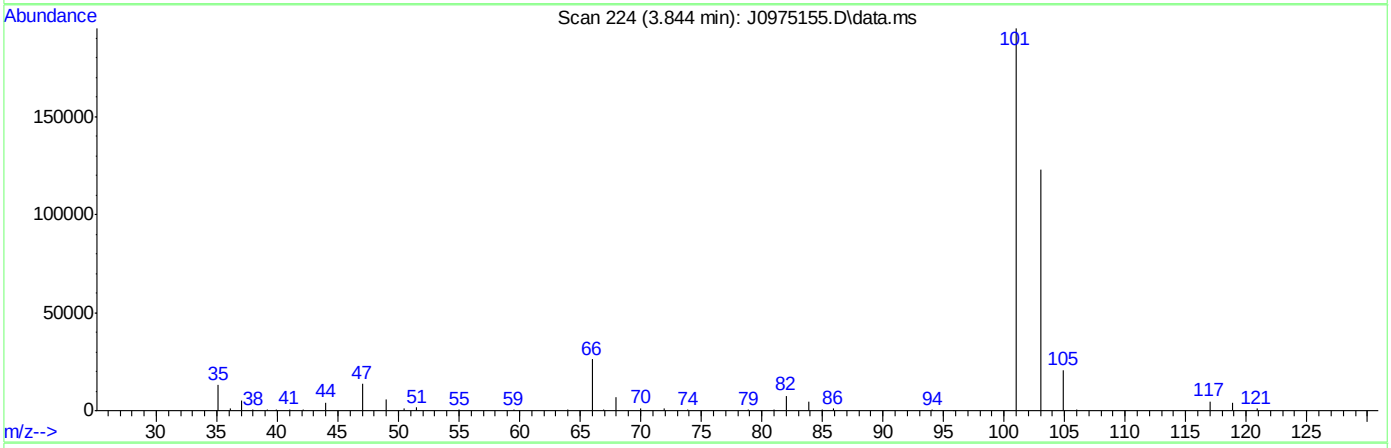
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.29	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

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

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





TIC: J0975155.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.012) 47.92ug/L

response 700090

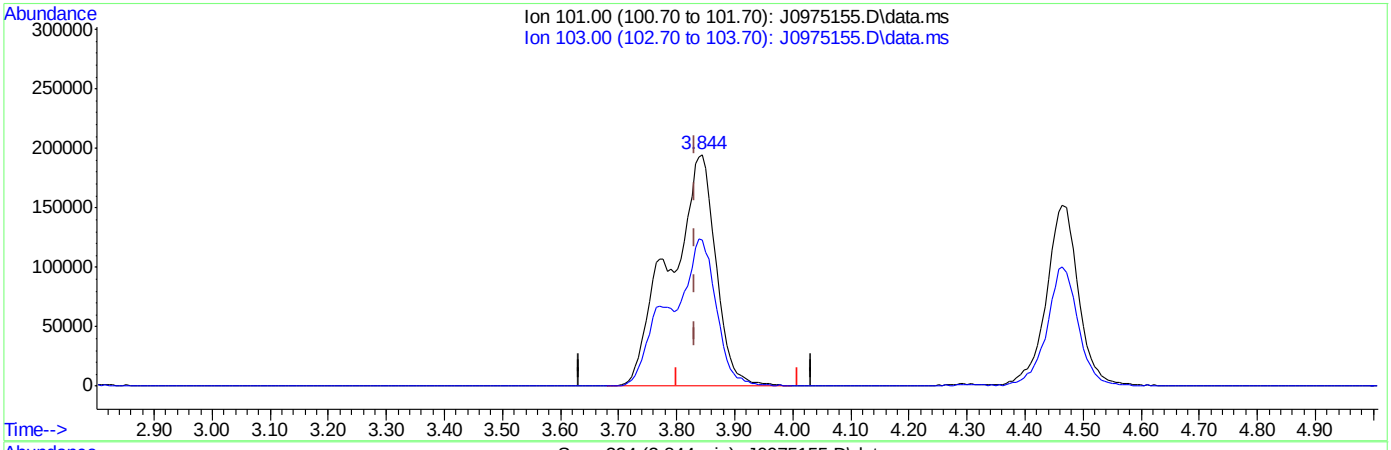
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.84
0.00	0.00	0.00
0.00	0.00	0.00

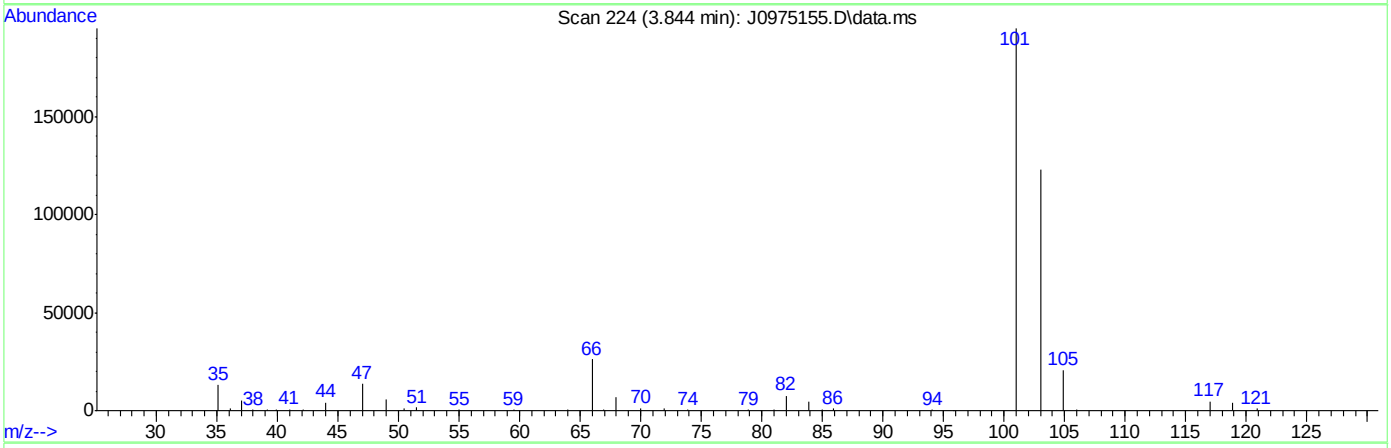
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975155.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.012) 73.47ug/L m

response 1073506

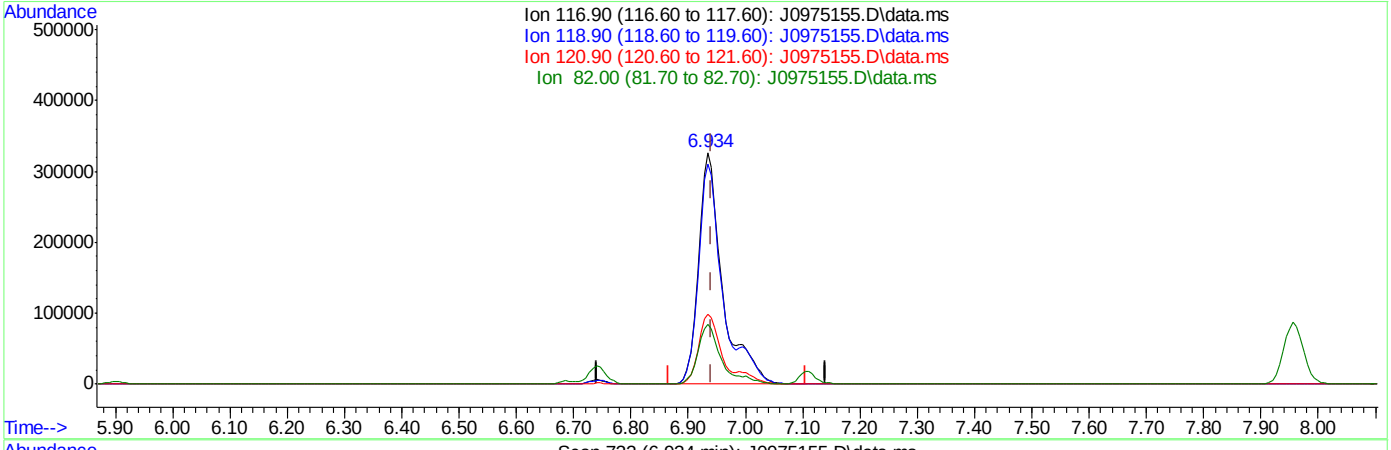
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.02
0.00	0.00	0.00
0.00	0.00	0.00

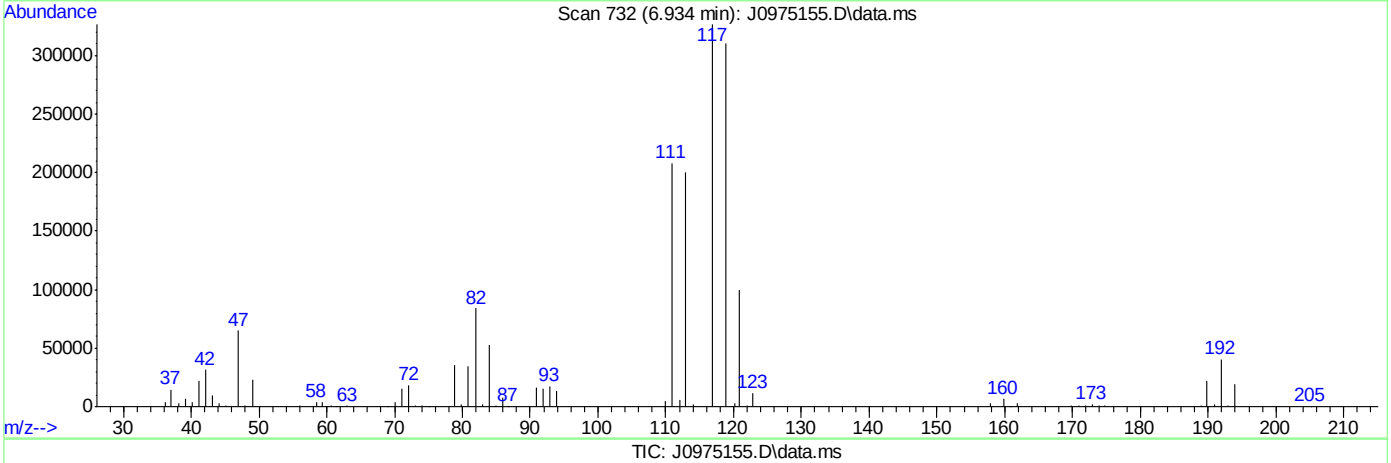
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975155.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 81.22ug/L

response 957149

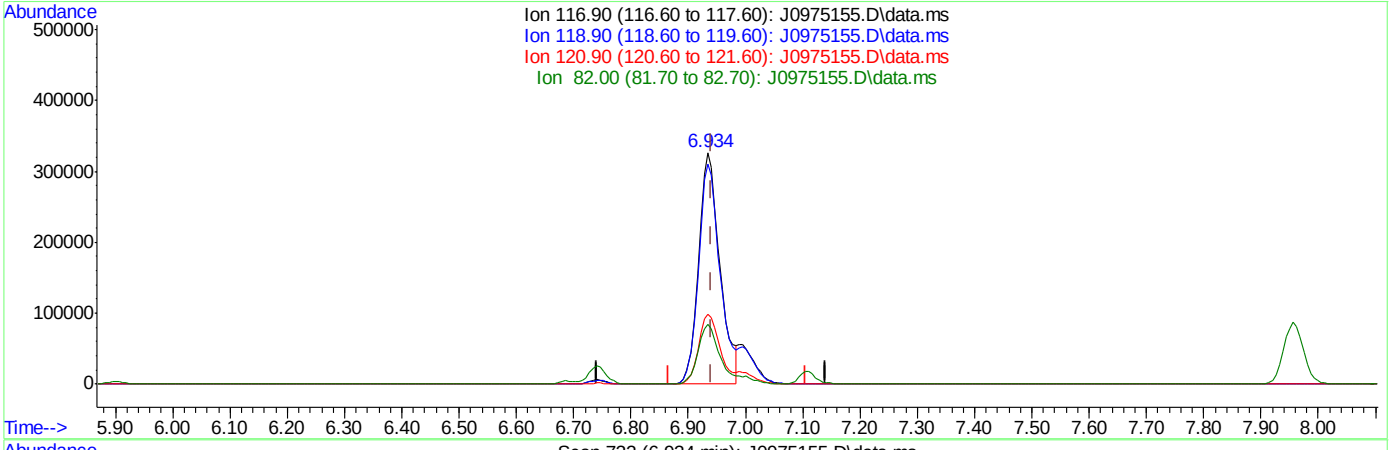
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.95
120.90	31.80	30.39
82.00	25.40	25.70

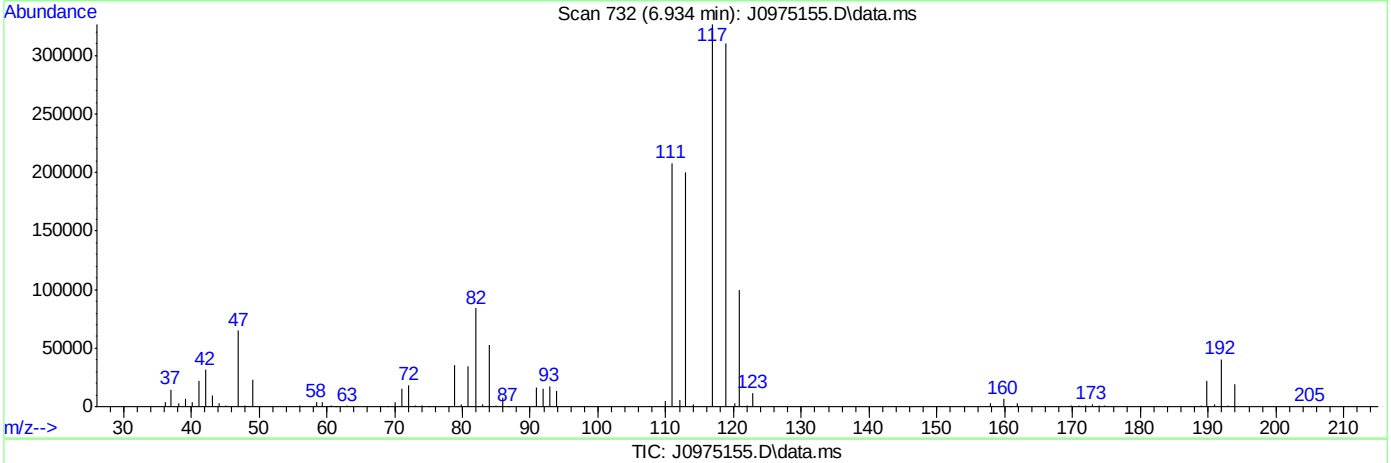
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975155.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.007) 71.73ug/L m

response 845243

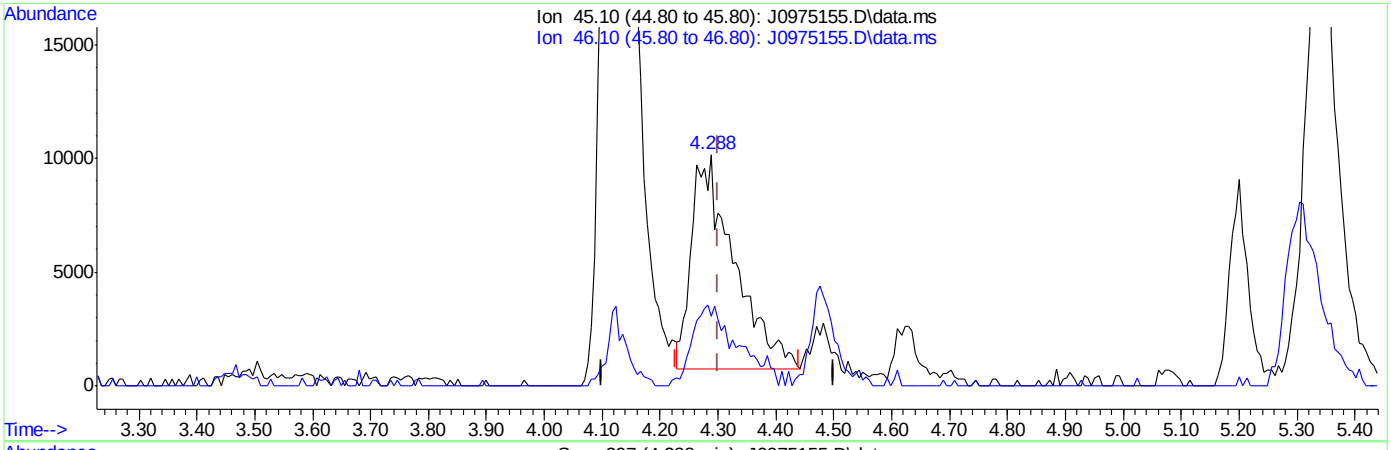
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	94.95
120.90	31.80	30.39
82.00	25.40	25.70

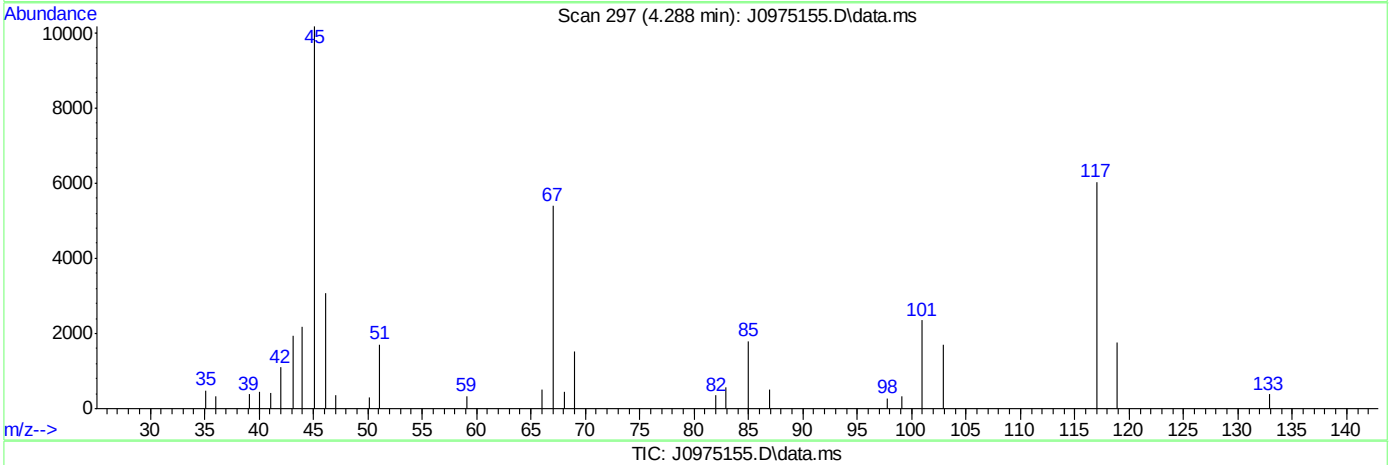
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975155.D\data.ms

(107) Ethanol

4.288min (-0.012) 1148.43ug/L

response 47664

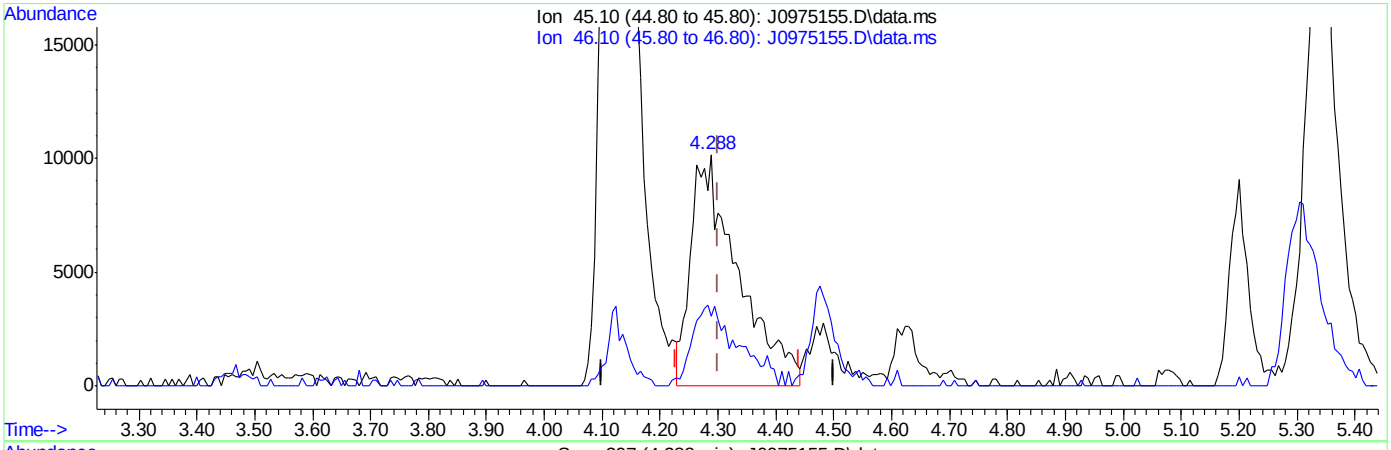
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	28.80
0.00	0.00	0.00
0.00	0.00	0.00

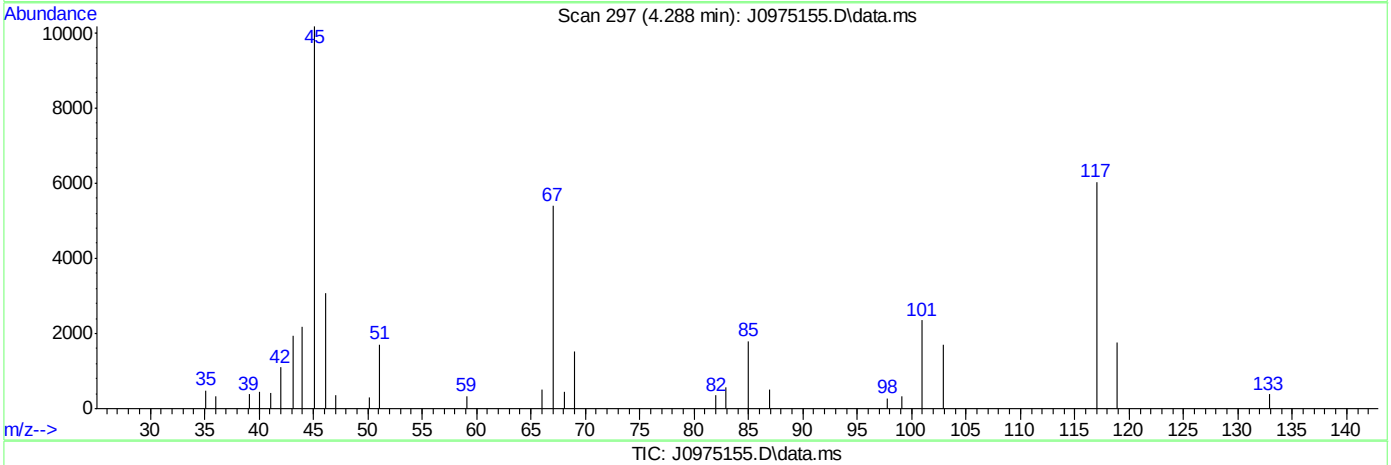
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975155.D\data.ms

(107) Ethanol

4.288min (-0.012) 1388.22ug/L m

response 57616

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

SGS ACCUTEST FA33606

J0975156.D

Manual Integrations APPROVED (compounds with "m" flag)

Melissa Mangual 03/16/16 15:48

Quantitation Report (QT Reviewed)

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

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

7.6.7

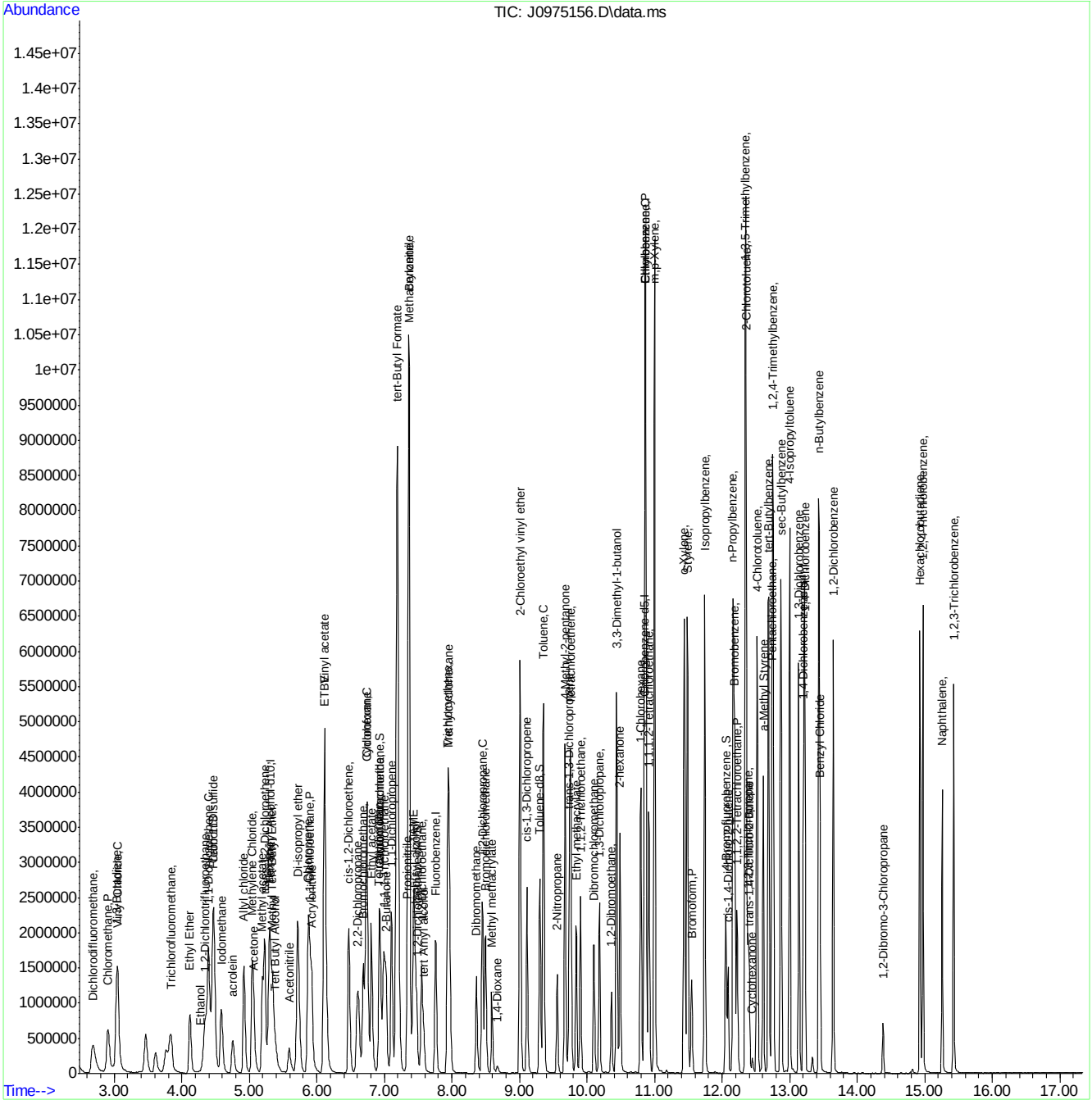
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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



SGS ACCUTEST FA33606

Manual Integration Approval Summary

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

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
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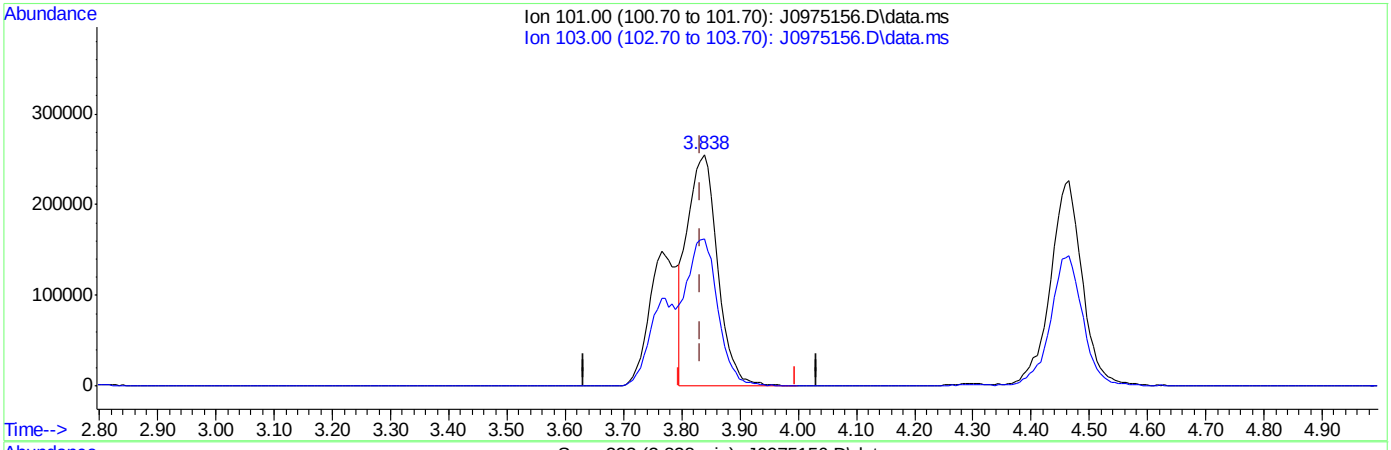
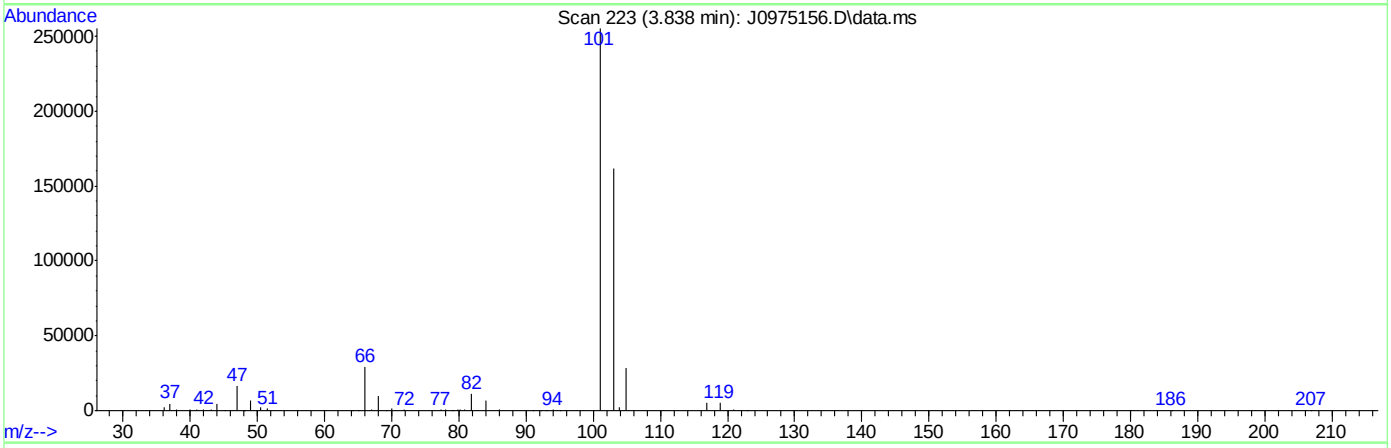
Quant Time: Mar 16 08:17:39 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 62.31ug/L

response 918142

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

SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
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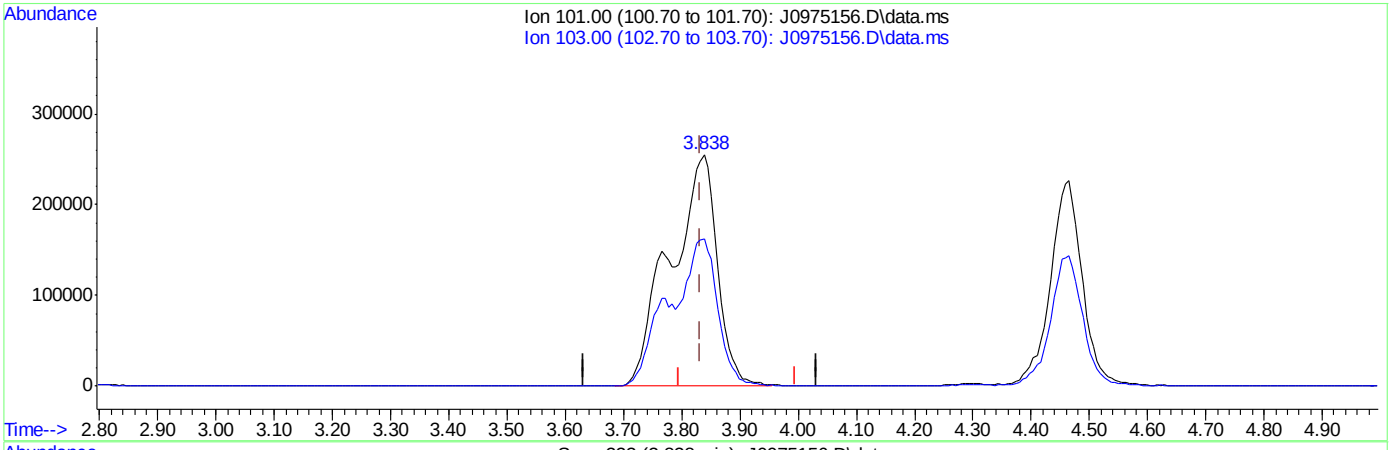
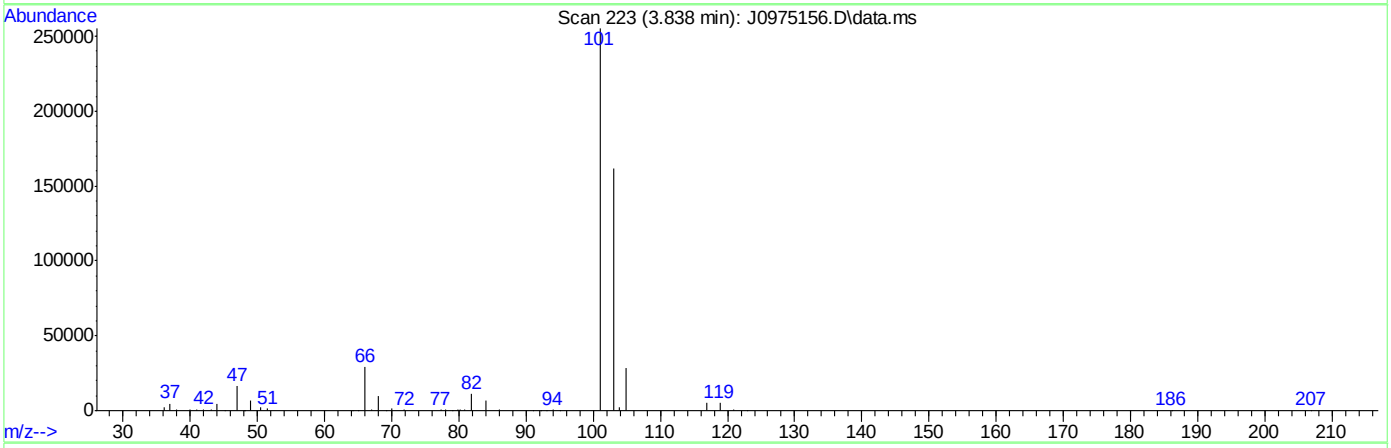




TIC: J0975156.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (+0.006) 96.55ug/L m

response 1422690

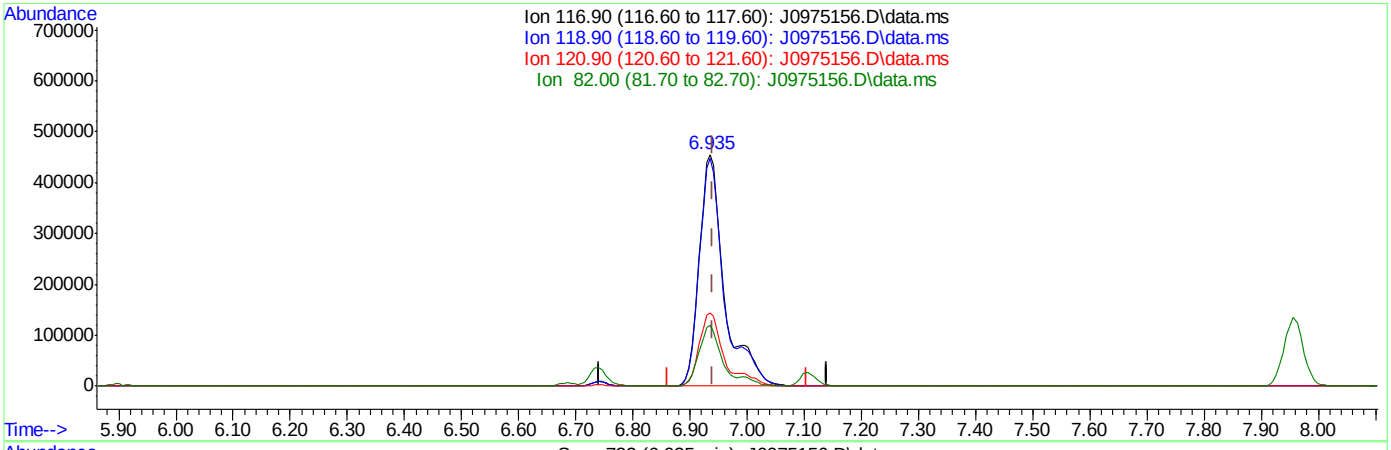
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	63.42
0.00	0.00	0.00
0.00	0.00	0.00

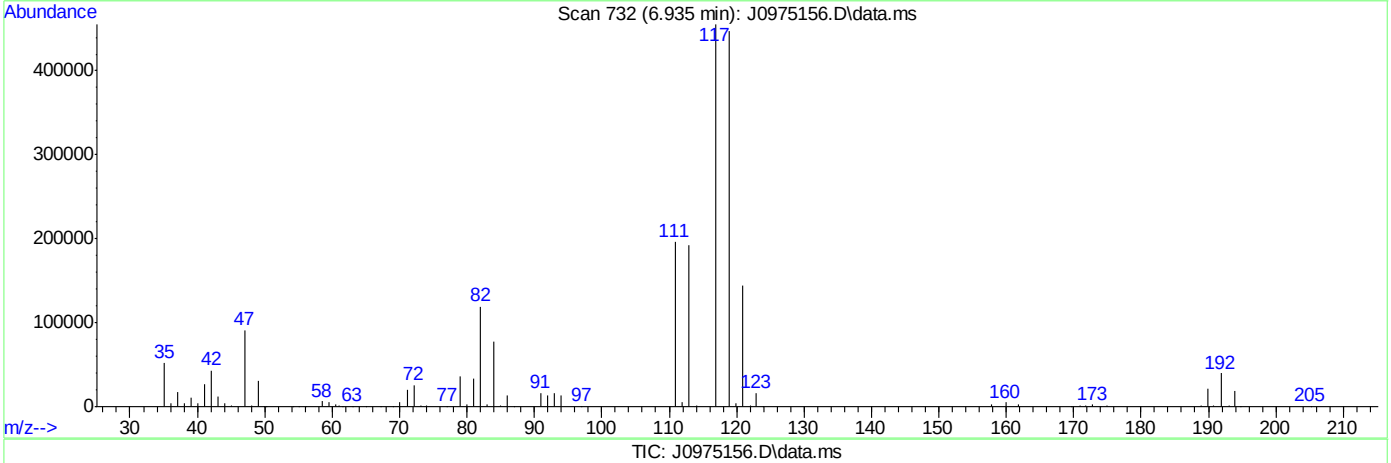
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975156.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 118.07ug/L

response 1403127

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

SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\031516\
Data File : J0975156.D
Acq On : 15 Mar 2016 4:39 pm
Operator : DARSHNAP
Sample : IC5237-7 Inst : MSVOA6
Misc : MS33279,VJ5237,,,,,
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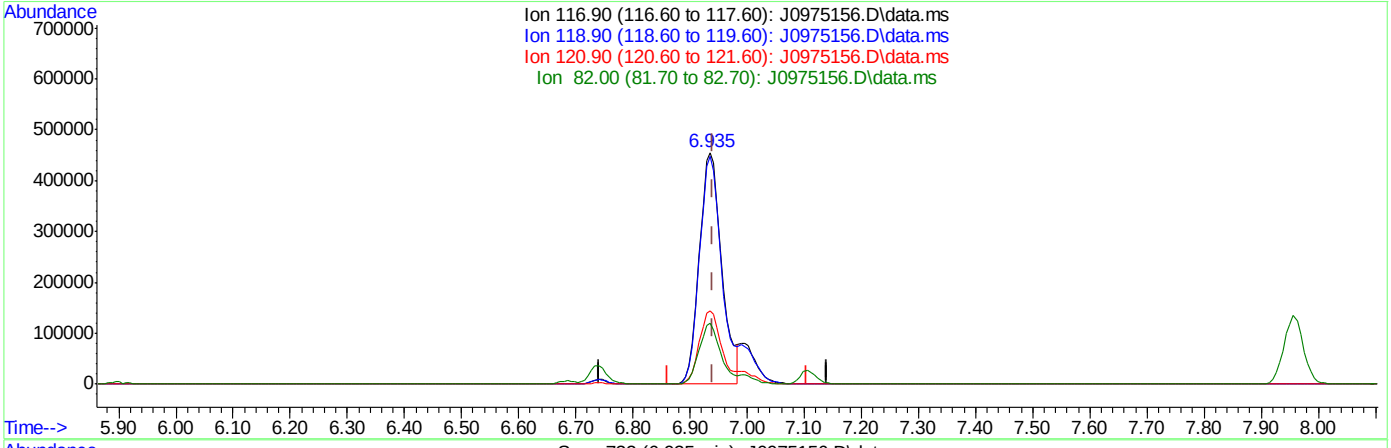
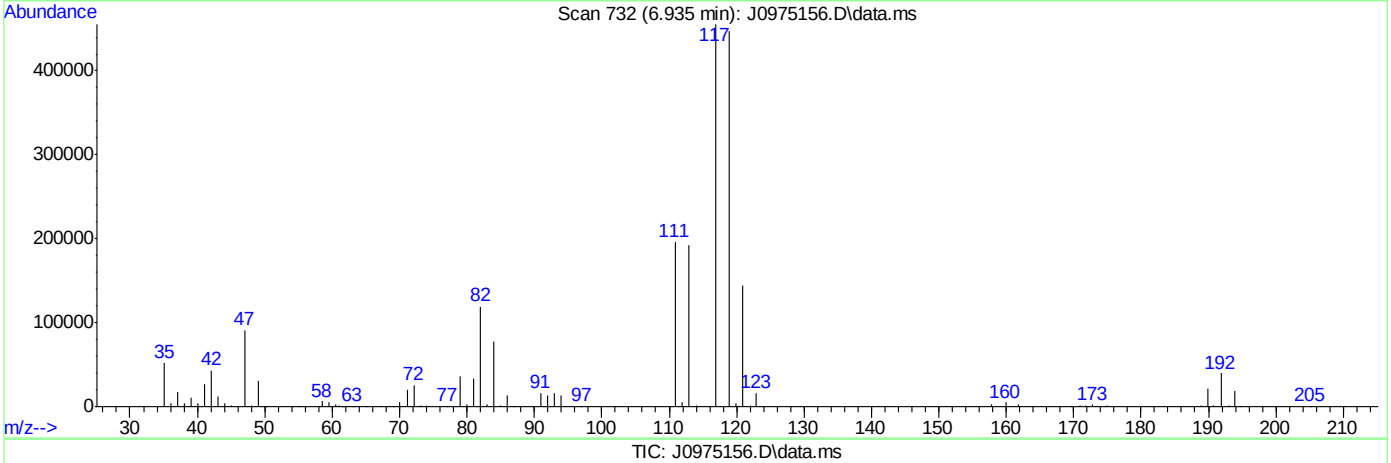
QLast Update : Tue Mar 15 07:56:34 2016
Response via : Initial Calibration





TIC: J0975156.D\data.ms

(37) Carbon Tetrachloride ( )

6.935min (-0.006) 104.39ug/L m

response 1240589

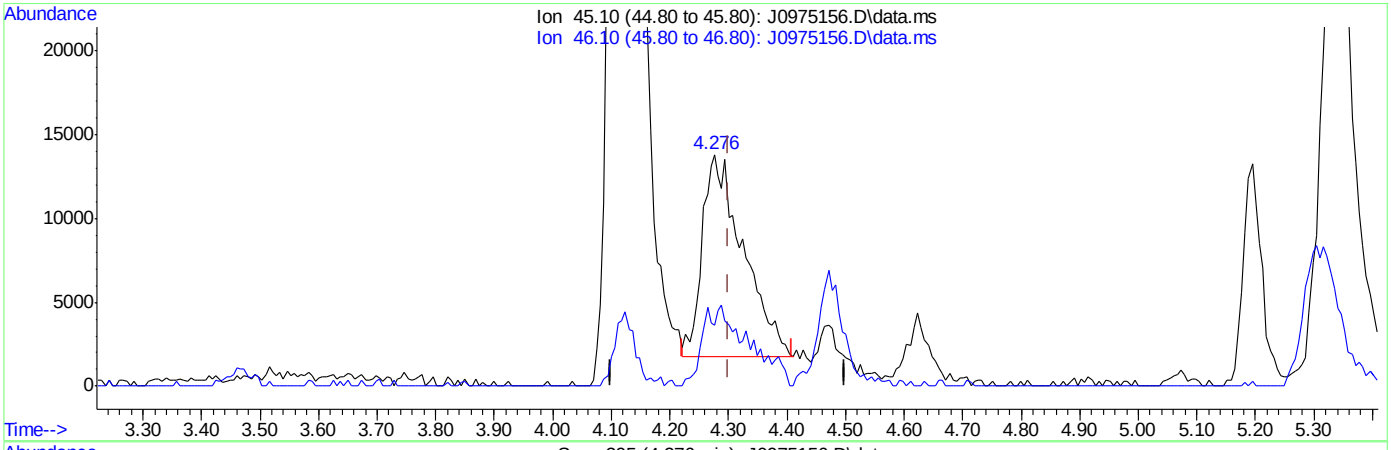
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	98.22
120.90	31.80	31.58
82.00	25.40	26.25

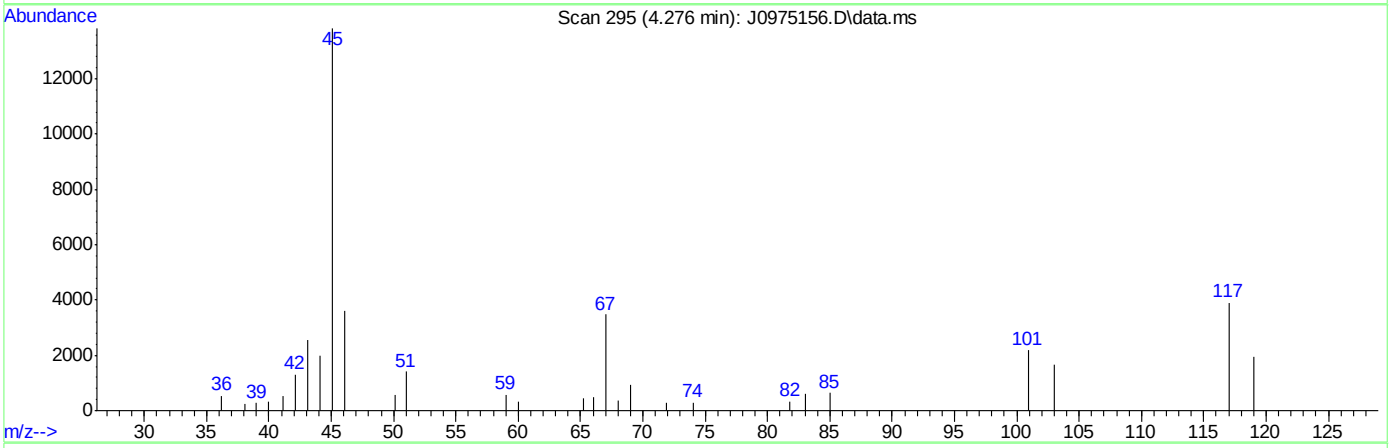
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975156.D\data.ms

(107) Ethanol

4.276min (-0.024) 1320.44ug/L

response 58410

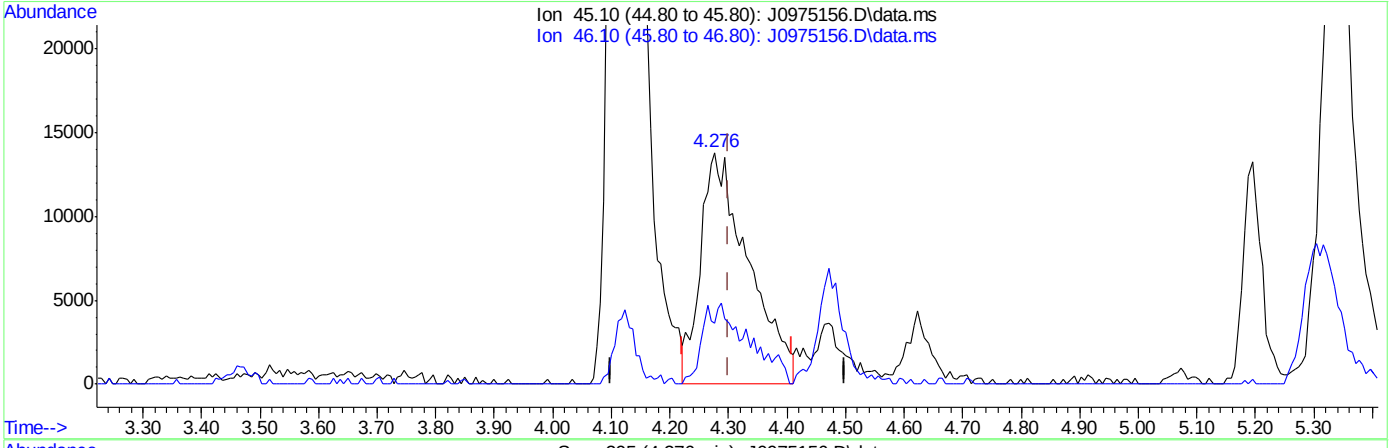
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	29.86
0.00	0.00	0.00
0.00	0.00	0.00

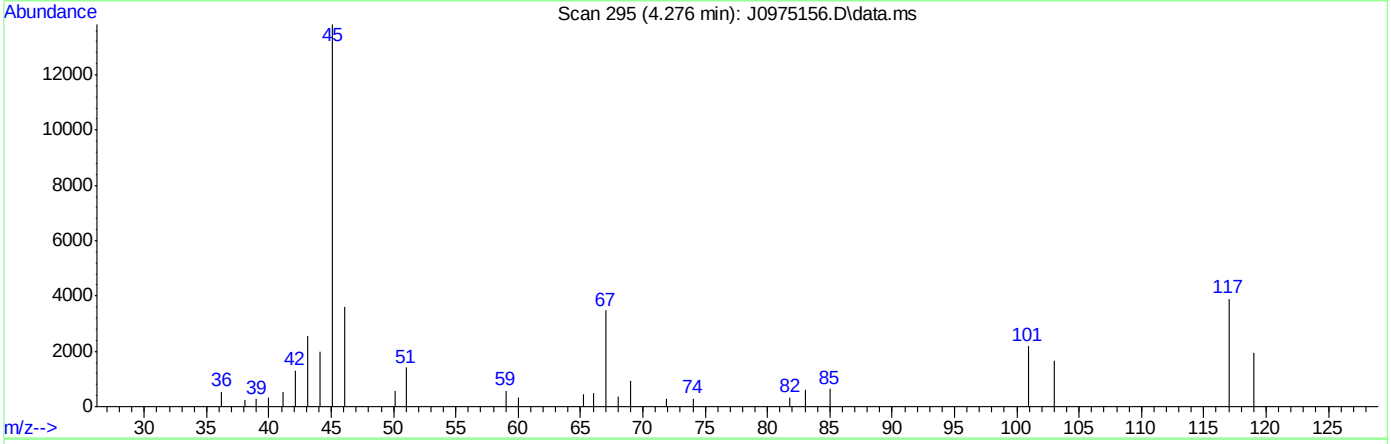
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975156.D\data.ms

(107) Ethanol

4.276min (-0.024) 1767.82ug/L m

response 78200

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

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

7.6.8

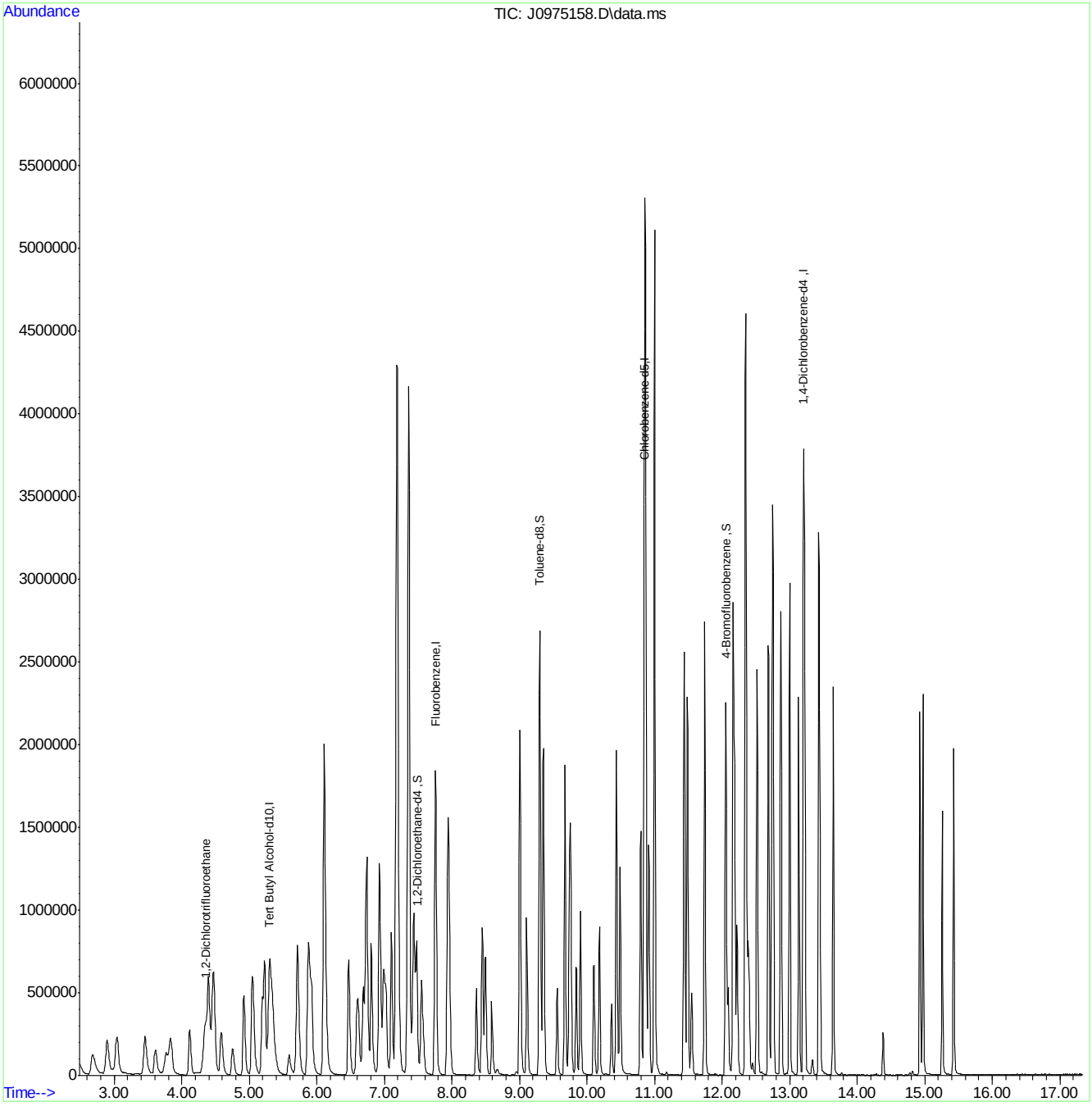
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

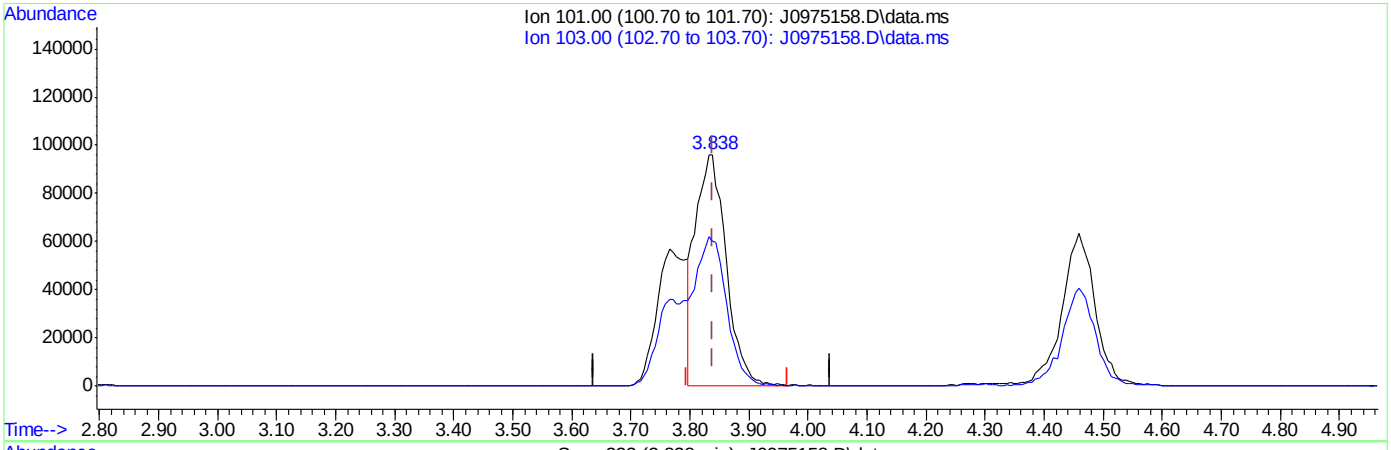


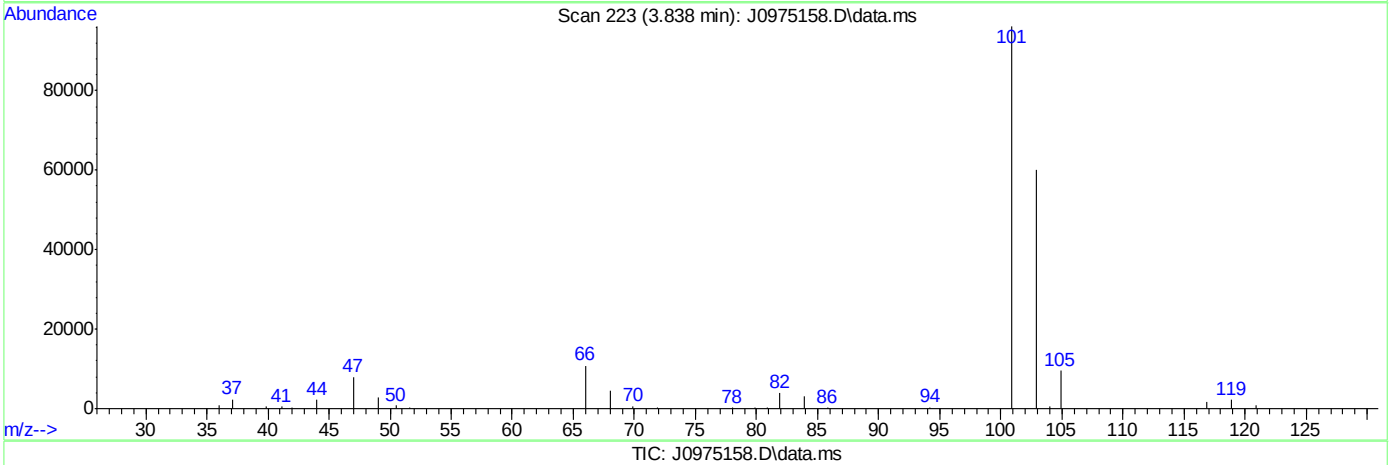
MSJ031516.M Wed Mar 16 09:49:38 2016 Page: 2

Quantitation Report (Qedit)

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

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





TIC: J0975158.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 25.41ug/L

response 348698

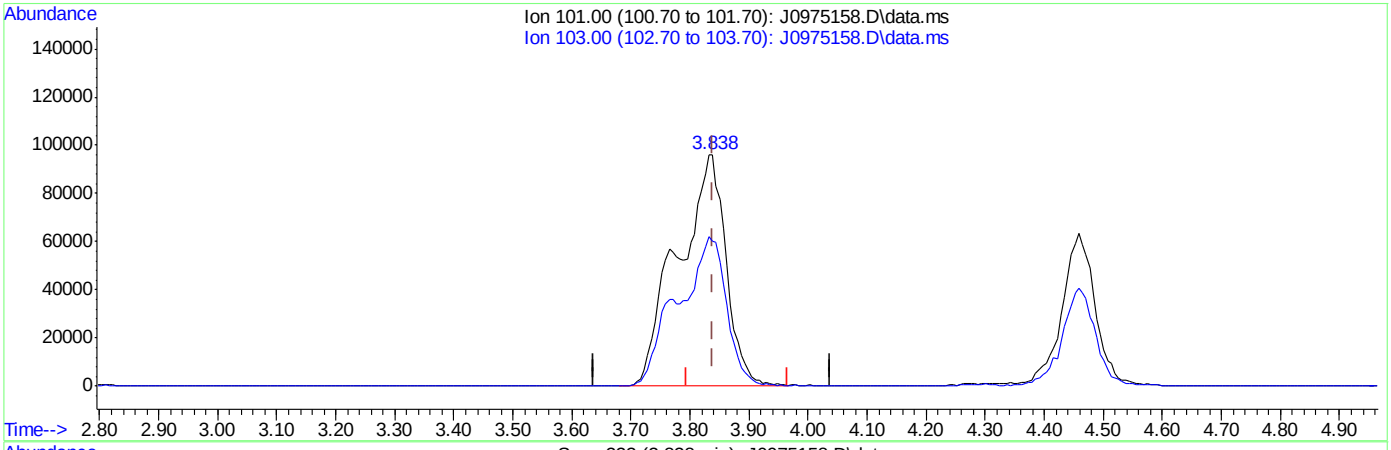
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.38
0.00	0.00	0.00
0.00	0.00	0.00

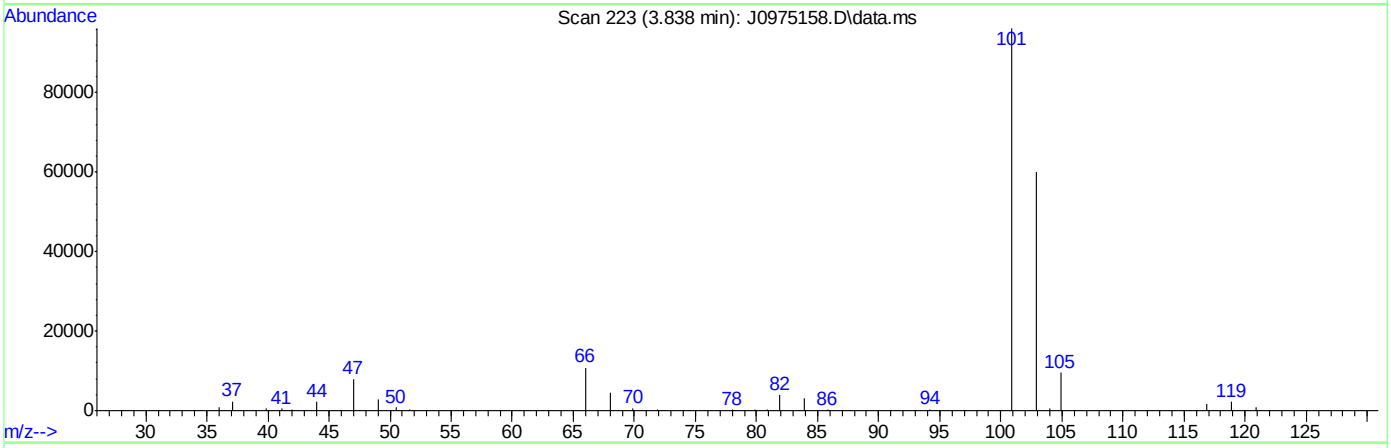
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975158.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 39.59ug/L m

response 543281

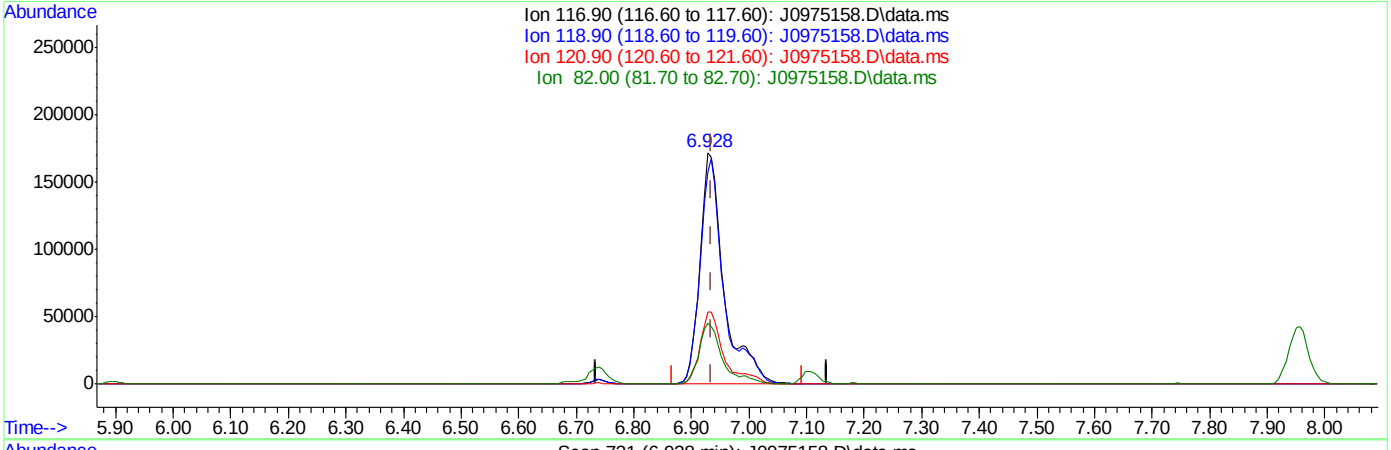
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	62.54
0.00	0.00	0.00
0.00	0.00	0.00

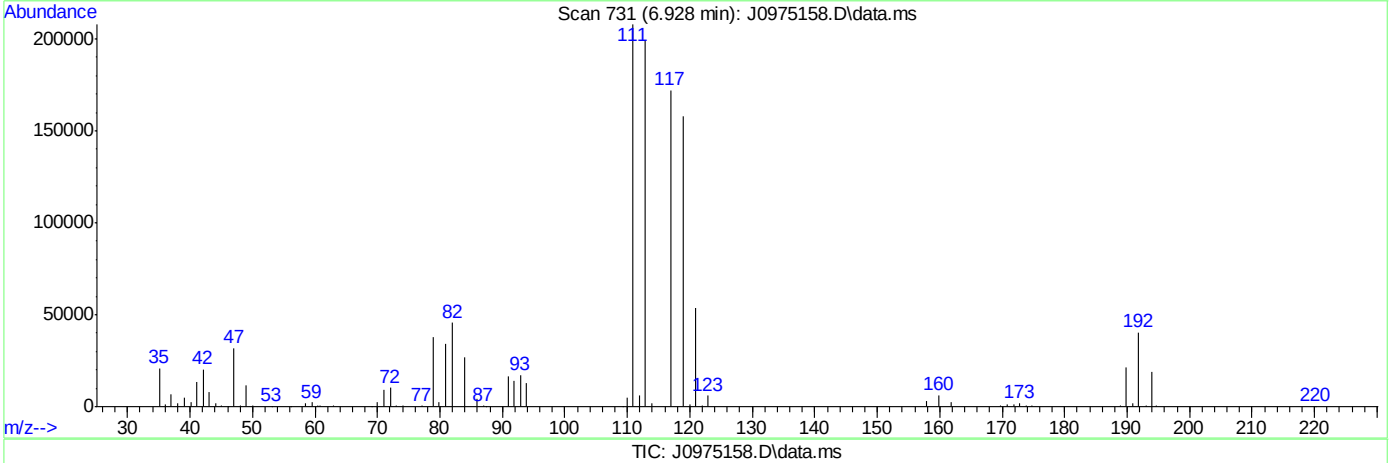
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975158.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 45.07ug/L

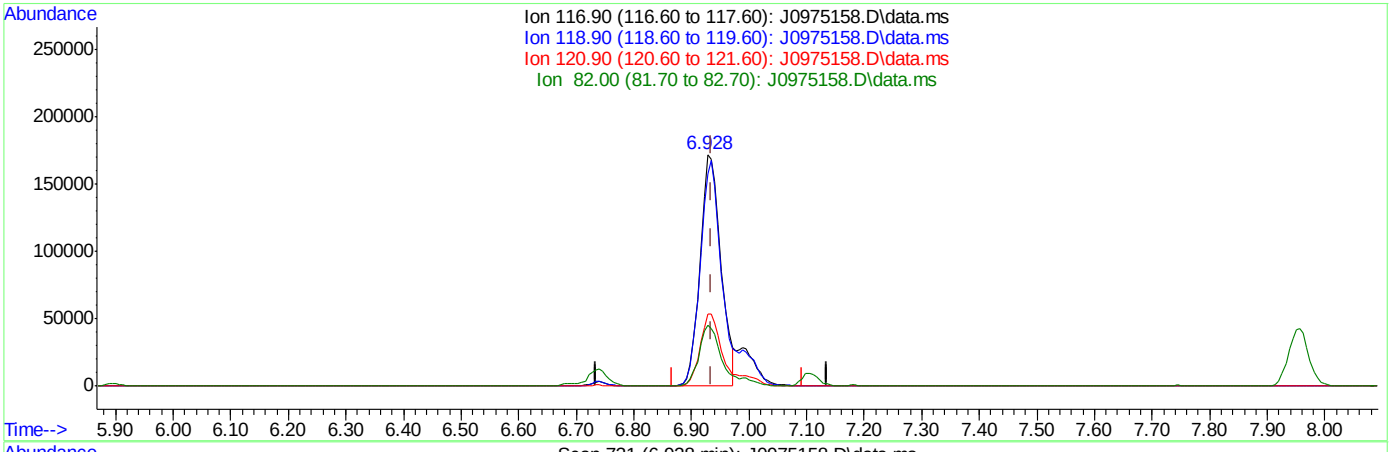
response 506180

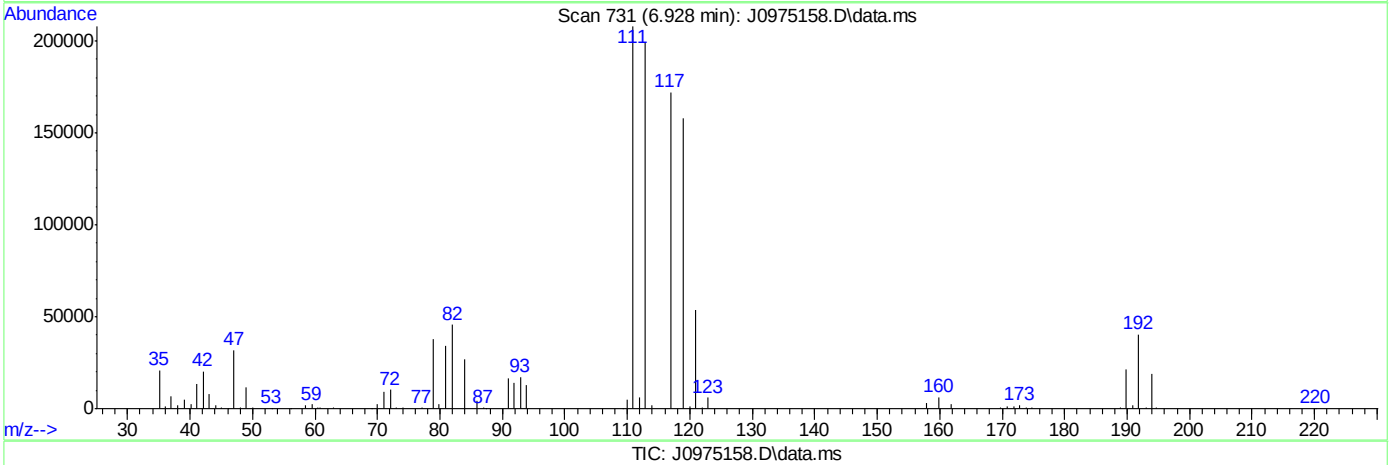
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	91.71
120.90	31.80	31.05
82.00	25.40	26.52

Quantitation Report (Qedit)

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

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





TIC: J0975158.D\data.ms

(37) Carbon Tetrachloride ( )

6.928min (-0.007) 38.77ug/L m

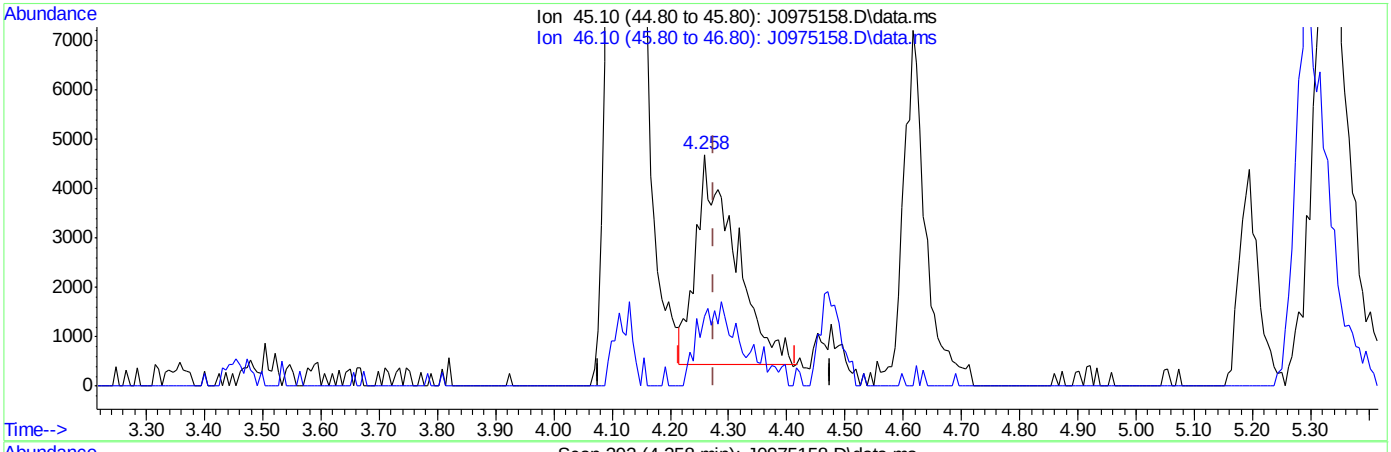
response 435379

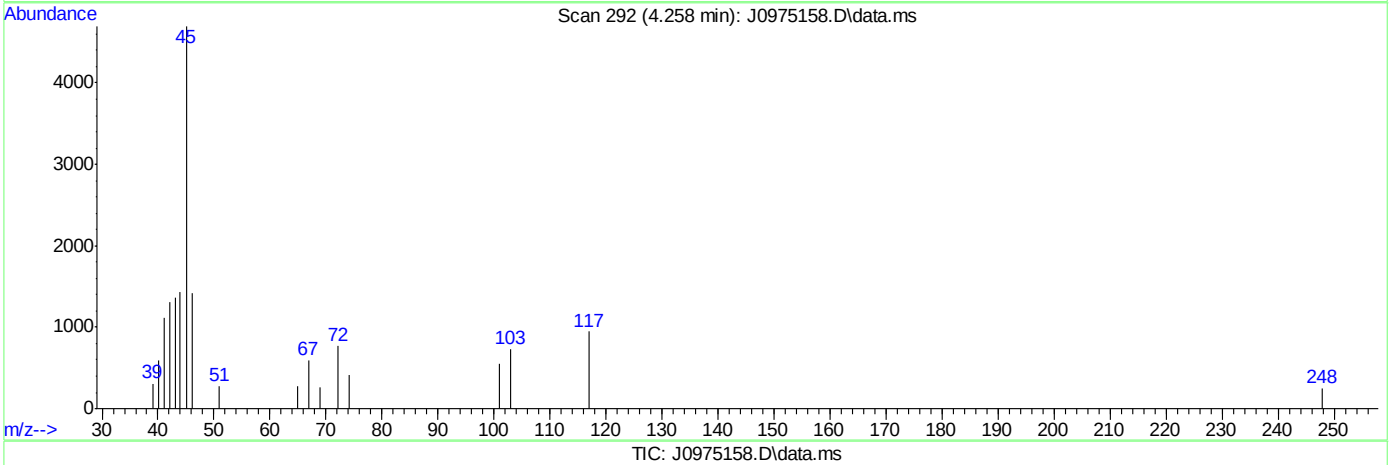
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	91.71
120.90	31.80	31.05
82.00	25.40	26.52

Quantitation Report (Qedit)

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

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





TIC: J0975158.D\data.ms

(107) Ethanol

4.258min (-0.018) 482.59ug/L

response 19905

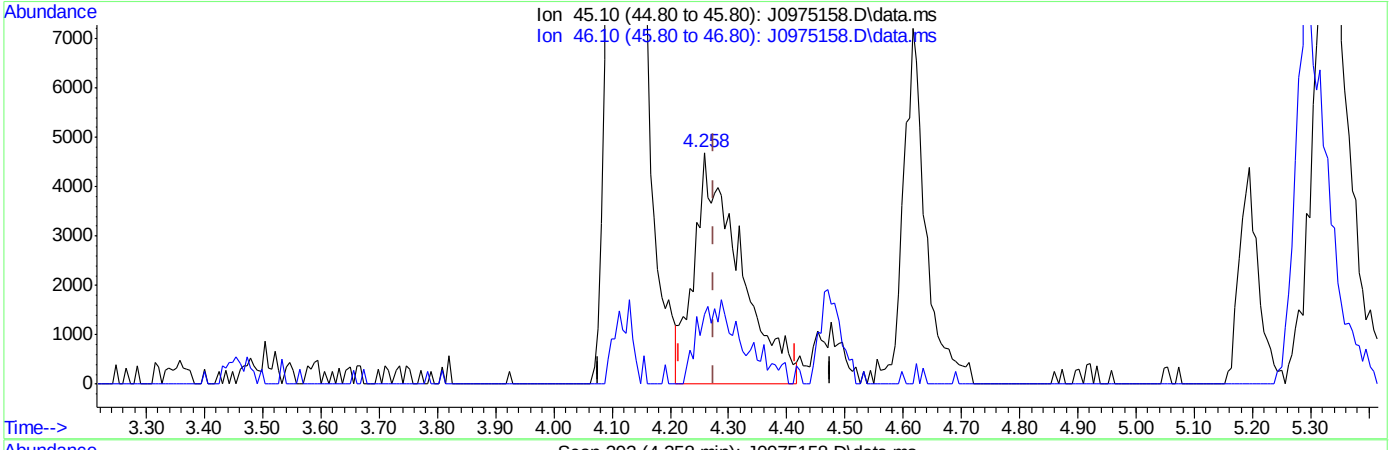
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	33.25
0.00	0.00	0.00
0.00	0.00	0.00

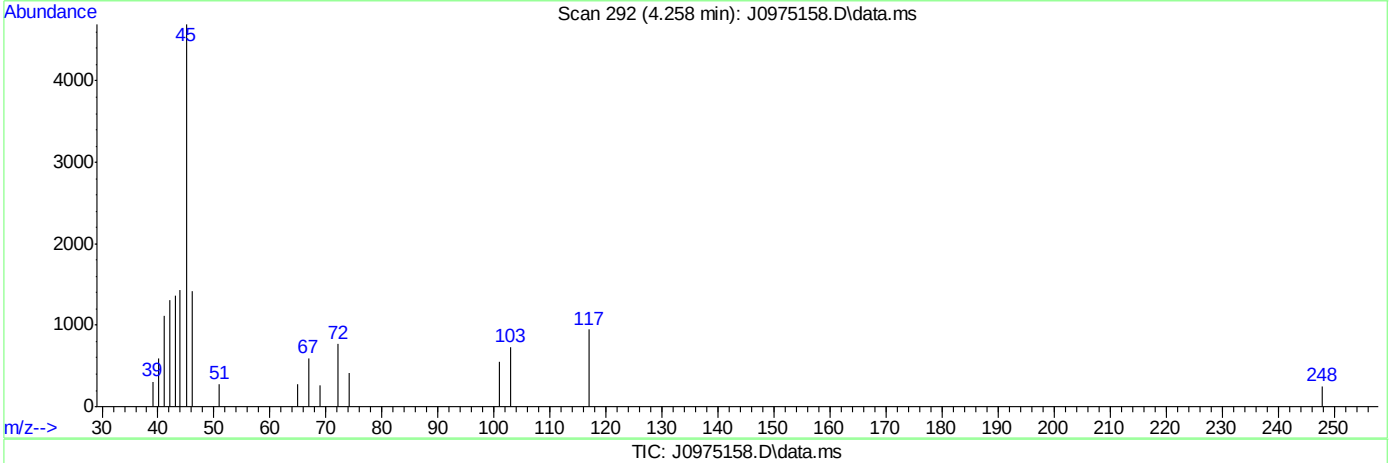
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975158.D\data.ms

(107) Ethanol

4.258min (-0.018) 633.21ug/L m

response 25660

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

SGS ACCUTEST FA33606

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

Quantitation Report (QT Reviewed)

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

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

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

Quantitation Report (QT Reviewed)

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

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

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

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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

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

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

7.6.9

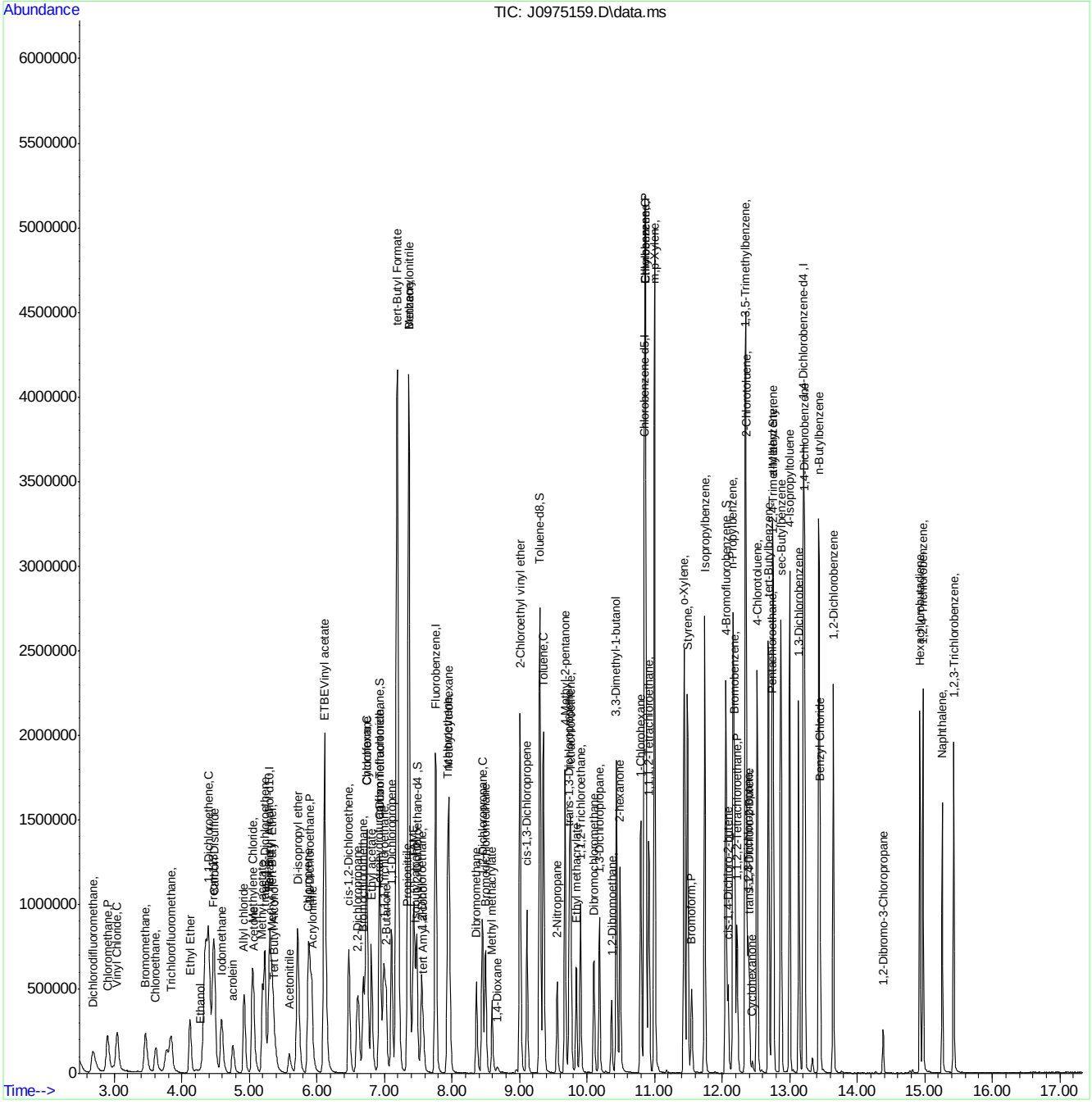
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

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

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



SGS ACCUTEST FA33606

Manual Integration Approval Summary

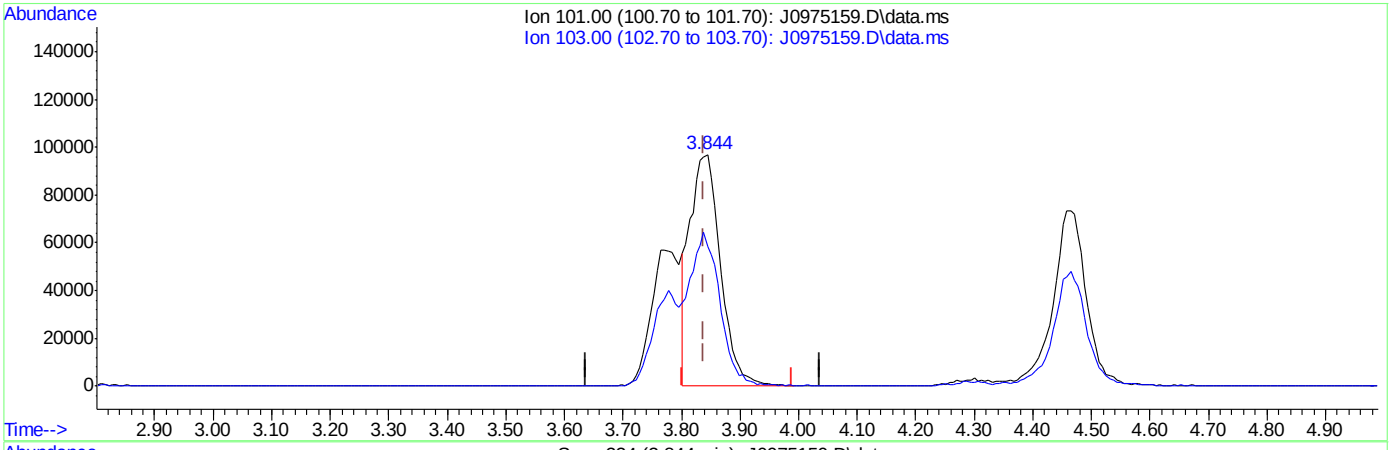
Sample Number:	VJ5237-ICV5237	**Method:**	SW846 8260B
Lab FileID:	J0975159.D	**Analyst approved:**	03/16/16 09:56 Darshna Patel
Injection Time:	03/15/16 17:51	**Supervisor approved:**	03/16/16 15:48 Melissa Mangual

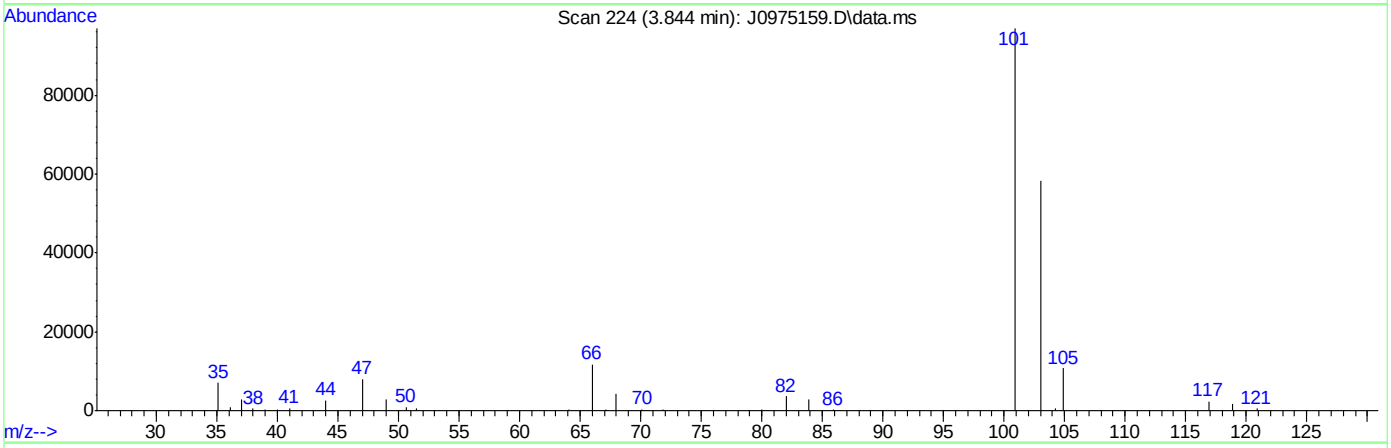
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

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

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





TIC: J0975159.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 24.89ug/L

response 352017

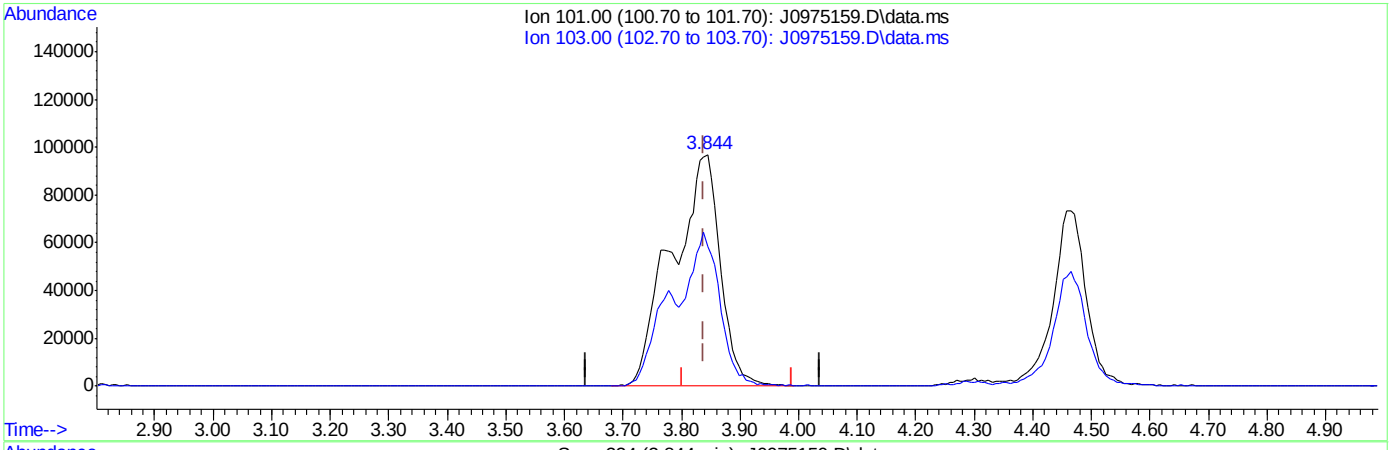
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.08
0.00	0.00	0.00
0.00	0.00	0.00

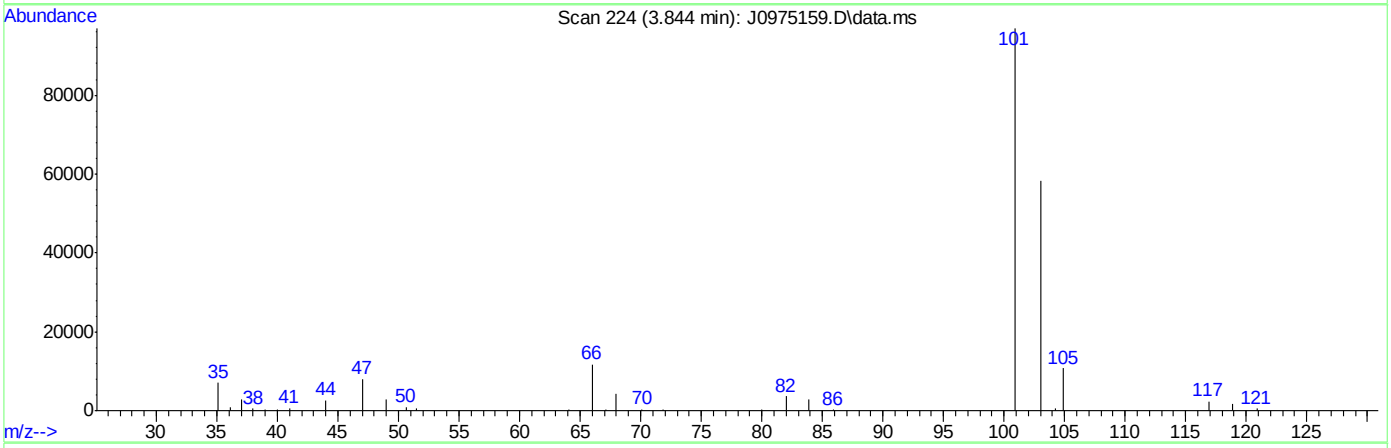
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975159.D\data.ms

(8) Trichlorofluoromethane ( )

3.844min (+0.006) 39.16ug/L m

response 553847

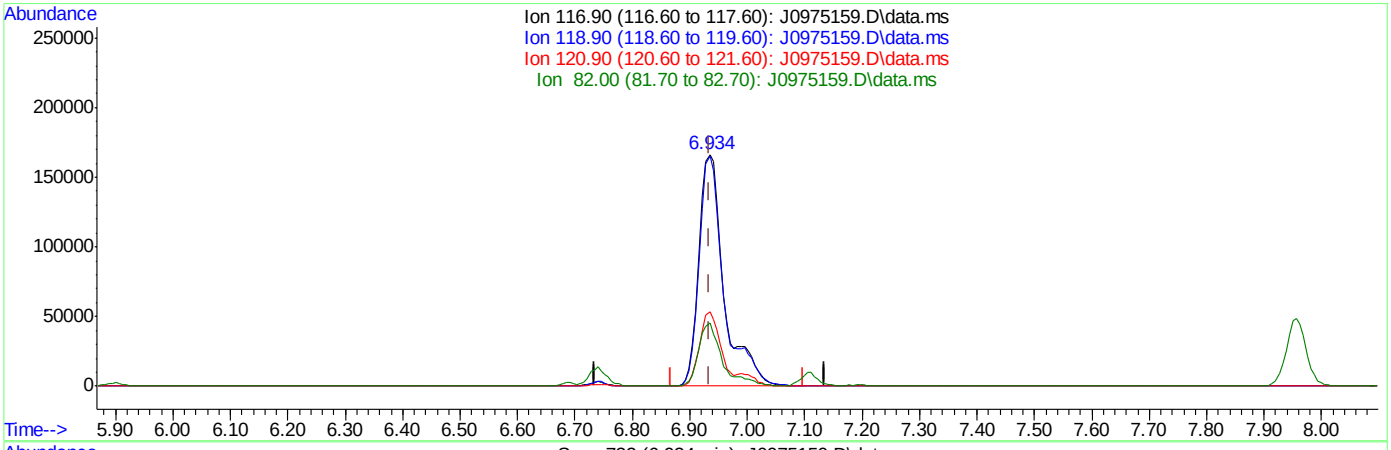
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	60.08
0.00	0.00	0.00
0.00	0.00	0.00

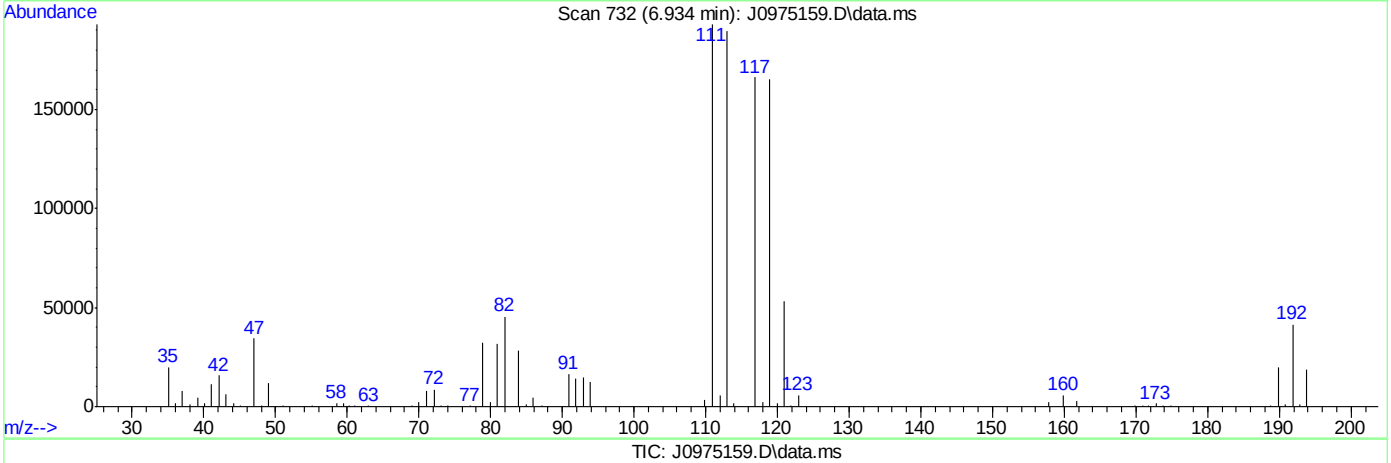
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975159.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 43.99ug/L

response 509174

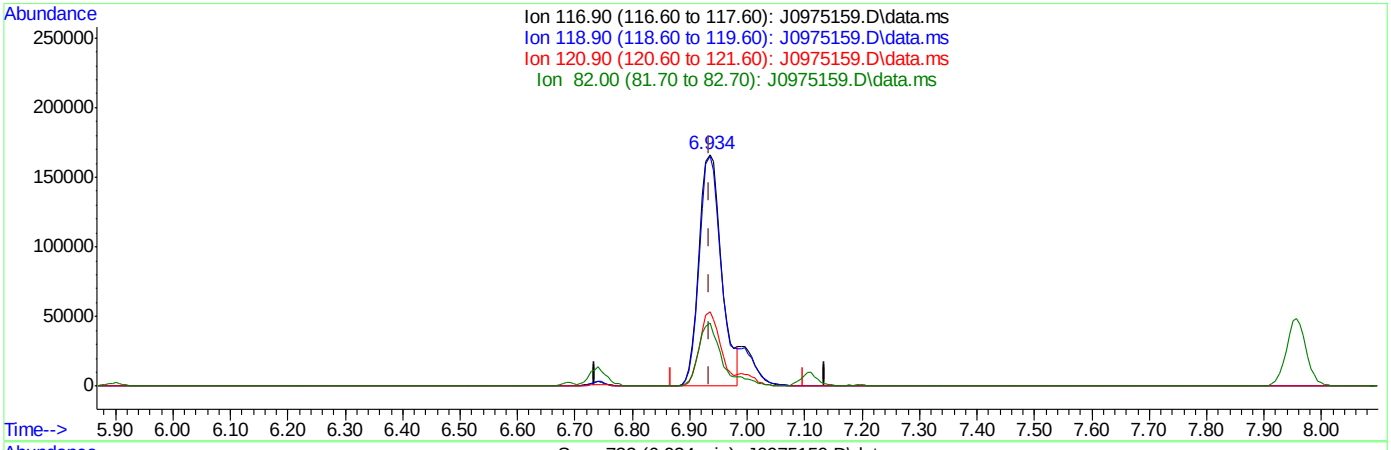
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	99.23
120.90	31.80	31.88
82.00	25.40	27.27

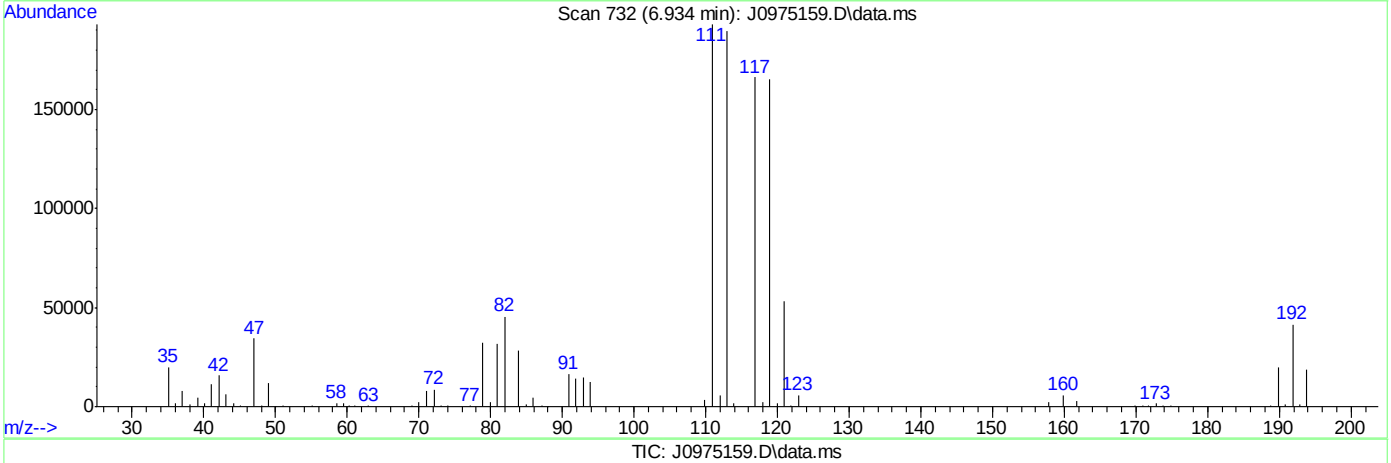
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975159.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 39.25ug/L m

response 454277

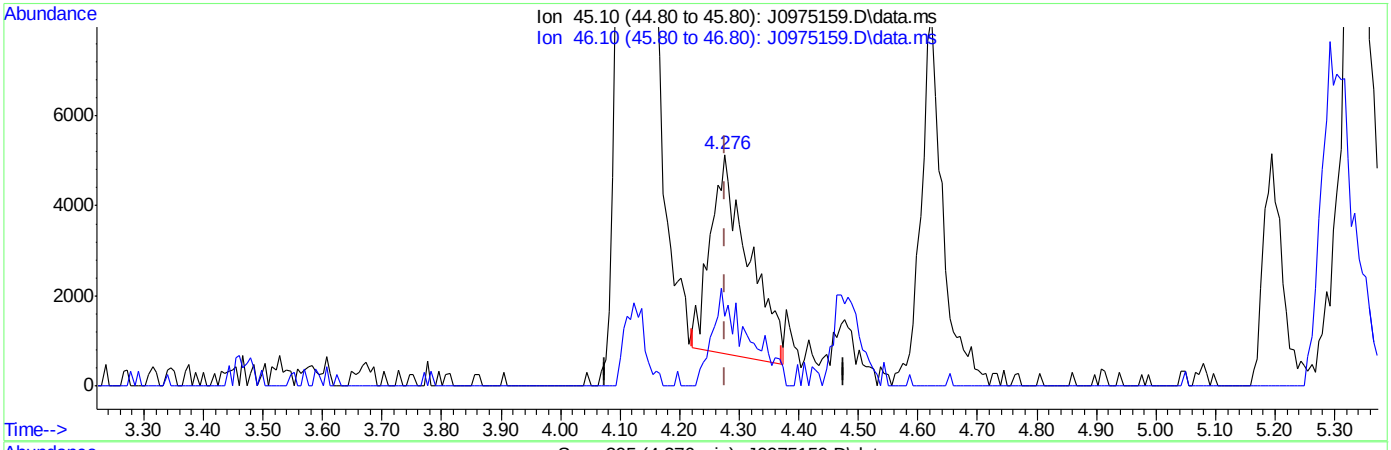
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	99.23
120.90	31.80	31.88
82.00	25.40	27.27

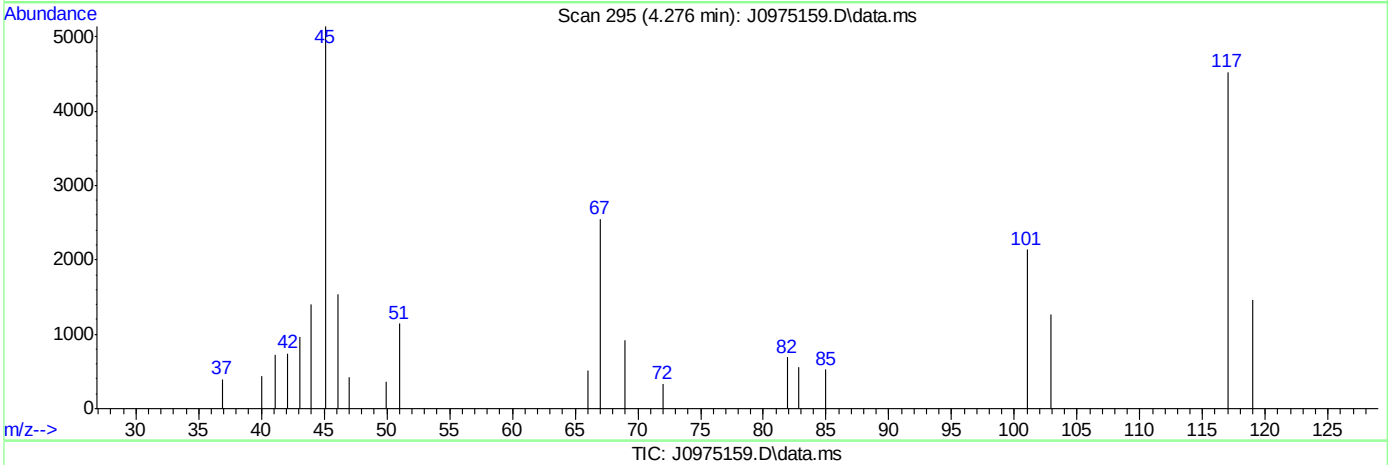
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975159.D\data.ms

(107) Ethanol

4.276min (-0.000) 508.74ug/L

response 19635

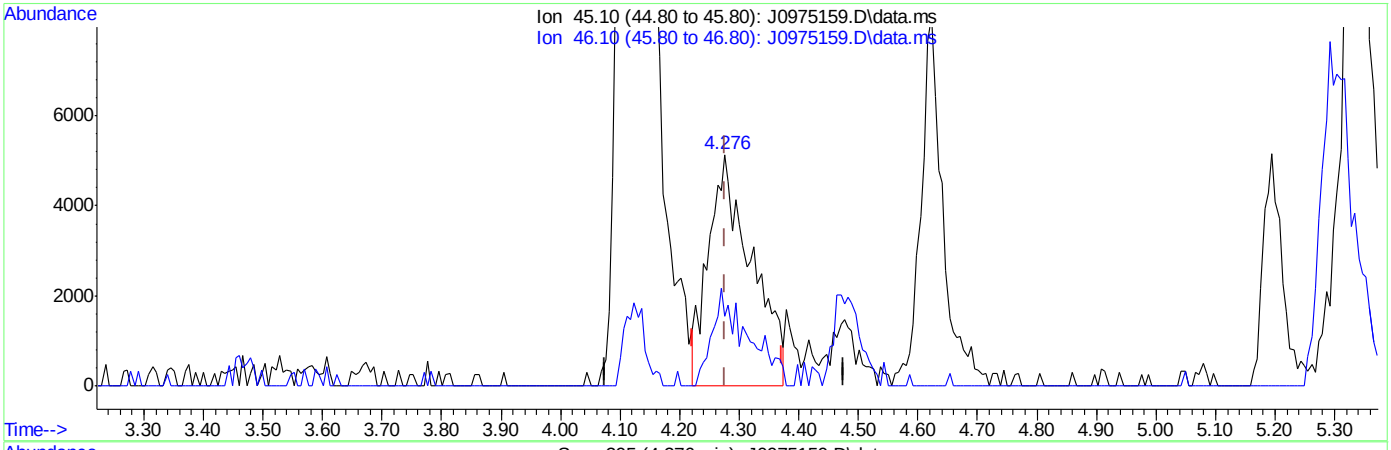
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	36.04
0.00	0.00	0.00
0.00	0.00	0.00

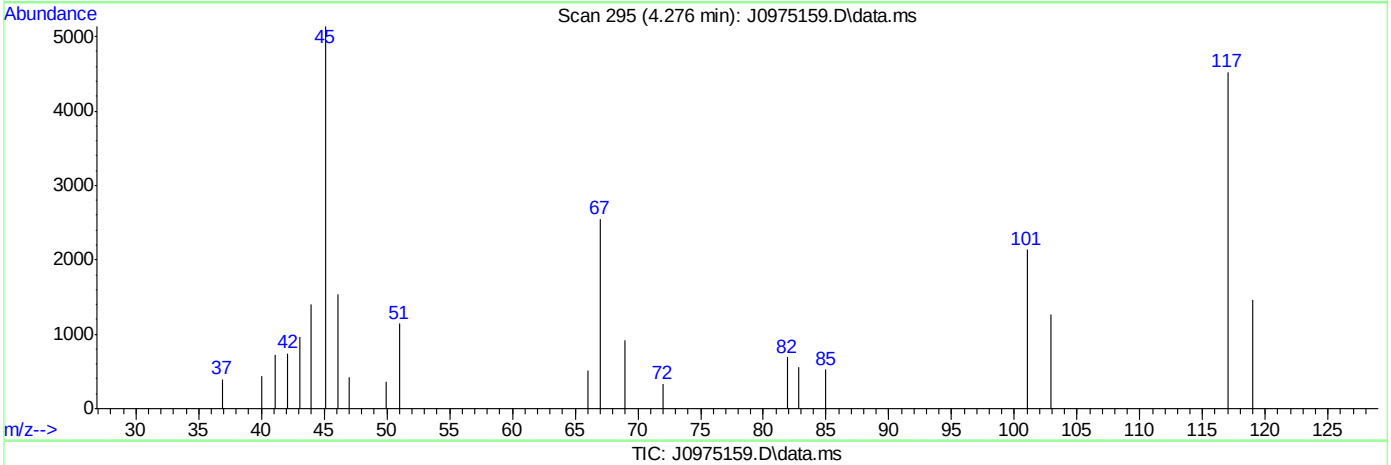
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

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

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





TIC: J0975159.D\data.ms

(107) Ethanol

4.276min (-0.000) 682.26ug/L m

response 25799

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

SGS ACCUTEST FA33606

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
05/04/16 13:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976279.D
Acq On : 4 May 2016 8:45 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 12:54:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1208724	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	961909	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	541062	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.298	65	72777	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.922	113	318116	51.87	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.74%			
46) 1,2-Dichloroethane-d4	7.476	65	367862	49.59	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 99.18%			
57) Toluene-d8	9.301	98	1222424	48.30	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 96.60%			
79) 4-Bromofluorobenzene	12.057	95	481055	49.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.694	85	283069	38.04	ug/L	99
3) Chloromethane	2.901	50	320165	40.21	ug/L	97
4) Vinyl Chloride	3.041	62	359981	44.14	ug/L	100
5) 1,3-Butadiene	3.047	54	252829	41.70	ug/L	98
6) Bromomethane	3.461	94	225104	39.70	ug/L	97
7) Chloroethane	3.619	64	175923	44.00	ug/L	99
8) Trichlorofluoromethane	3.838	101	484863m	47.92	ug/L	
9) Ethyl Ether	4.124	59	194654	41.65	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.349	67	302059	42.98	ug/L	95
11) 1,1-Dichloroethene	4.397	61	369144	42.18	ug/L	98
12) Freon 113	4.464	101	256105	42.32	ug/L	98
13) Carbon Disulfide	4.477	76	800468	43.93	ug/L	94
14) Iodomethane	4.586	142	413588	42.77	ug/L	99
15) Allyl chloride	4.921	41	337650	41.74	ug/L	92
16) Methylene Chloride	5.042	49	346125	44.01	ug/L	96
17) Acetone	5.067	58	75228	207.54	ug/L	100
18) Methyl acetate	5.188	74	140964	199.71	ug/L	98
19) trans-1,2-Dichloroethene	5.225	61	339762	42.27	ug/L	99
20) Hexane	5.298	56	223402	43.32	ug/L	98
21) Methyl Tert Butyl Ether	5.340	73	652409	40.72	ug/L	79
22) Acetonitrile	5.590	40	97420	428.48	ug/L	91
23) Di-isopropyl ether	5.718	45	773819	42.19	ug/L	97
24) Chloroprene	5.870	53	359488	41.60	ug/L	99
25) 1,1-Dichloroethane	5.900	63	457670	42.65	ug/L	99
26) Acrylonitrile	5.924	53	295622	184.31	ug/L	99
27) ETBE	6.113	59	785851	42.79	ug/L	98
28) Vinyl acetate	6.107	43	1860982	200.34	ug/L	97
29) cis-1,2-Dichloroethene	6.472	96	282033	40.93	ug/L	95
30) 2,2-Dichloropropane	6.606	77	379047	45.26	ug/L	98
31) Bromochloromethane	6.685	128	131896	42.35	ug/L	98
32) Cyclohexane	6.734	56	431735	42.79	ug/L	97
33) Chloroform	6.740	83	501536	42.09	ug/L	98
34) Ethyl acetate	6.807	43	686316	183.76	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976279.D
Acq On : 4 May 2016 8:45 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 12:54:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	37632	34.65 ug/L	86
37) Carbon Tetrachloride	6.934	117	375158m	45.30 ug/L	
38) 1,1,1-Trichloroethane	6.995	97	442246	43.41 ug/L	98
39) 2-Butanone	7.020	43	308743	197.37 ug/L	95
40) 1,1-Dichloropropene	7.105	75	344962	41.93 ug/L	97
41) tert-Butyl Formate	7.184	59	1534744	410.21 ug/L	94
42) Propionitrile	7.330	54	207721	375.00 ug/L	85
43) Methacrylonitrile	7.360	41	948385	367.93 ug/L	97
44) Benzene	7.354	78	1067637	42.64 ug/L	99
45) TAME	7.433	73	679126	40.98 ug/L	98
47) 1,2-Dichloroethane	7.549	62	353176	40.29 ug/L	98
48) Trichloroethene	7.932	95	266204	41.03 ug/L	98
49) Methylcyclohexane	7.956	83	460981	42.28 ug/L	98
50) Dibromomethane	8.358	93	144916	40.01 ug/L	98
51) 1,2-Dichloropropane	8.449	63	260075	41.34 ug/L	94
52) Bromodichloromethane	8.492	83	352157	43.67 ug/L	97
53) Methyl methacrylate	8.589	41	128086	38.52 ug/L	94
54) 2-Chloroethyl vinyl ether	9.009	63	662886	207.49 ug/L	98
55) cis-1,3-Dichloropropene	9.106	75	414217	42.54 ug/L	98
58) Toluene	9.356	91	1100388	39.50 ug/L	99
59) 2-Nitropropane	9.556	41	210580	190.50 ug/L	95
60) 4-Methyl-2-pentanone	9.672	43	781907	196.44 ug/L	98
61) trans-1,3-Dichloropropene	9.733	75	347807	39.84 ug/L	95
62) Tetrachloroethene	9.757	166	275133	36.95 ug/L	99
63) Ethyl methacrylate	9.836	69	239421	37.62 ug/L	97
64) 1,1,2-Trichloroethane	9.903	83	179214	39.43 ug/L	98
65) Dibromochloromethane	10.098	129	247902	42.92 ug/L	99
66) 1,3-Dichloropropane	10.183	76	359321	38.70 ug/L	96
67) 1,2-Dibromoethane	10.359	107	200758	38.97 ug/L	97
68) 2-hexanone	10.487	43	537212	204.11 ug/L	96
69) 1-Chlorohexane	10.797	91	343742	42.07 ug/L	98
70) Ethylbenzene	10.864	91	1336402	42.07 ug/L	100
71) Chlorobenzene	10.864	112	768881	41.50 ug/L	95
72) 1,1,1,2-Tetrachloroethane	10.913	131	262643	43.58 ug/L	98
73) m,p-Xylene	10.998	91	2023929	83.53 ug/L	99
74) o-Xylene	11.436	91	1023851	41.71 ug/L	99
75) Styrene	11.485	104	793614	40.53 ug/L	97
76) Bromoform	11.552	173	153073	41.58 ug/L	98
77) Isopropylbenzene	11.740	105	1215062	42.84 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	68151	38.76 ug/L	97
81) n-Propylbenzene	12.160	91	1486072	43.29 ug/L	100
82) Bromobenzene	12.184	156	339200	41.96 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.221	83	251638	38.57 ug/L	99
84) 1,3,5-Trimethylbenzene	12.343	105	1153717	44.41 ug/L	99
85) 2-Chlorotoluene	12.349	91	1077175	42.74 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.397	53	65001	39.30 ug/L #	82
87) 1,2,3-Trichloropropane	12.385	110	66909	40.24 ug/L	96
88) Cyclohexanone	12.446	55	29456	281.73 ug/L	88
89) 4-Chlorotoluene	12.519	91	976902	43.30 ug/L	100
90) a-Methyl Styrene	12.610	118	580434	78.23 ug/L	98

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976279.D
Acq On : 4 May 2016 8:45 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 12:54:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.683	91	638342	42.06	ug/L		95
92)	1,2,4-Trimethylbenzene	12.750	105	1131653	43.62	ug/L		98
93)	Pentachloroethane	12.738	167	212481	43.56	ug/L		97
94)	sec-Butylbenzene	12.872	105	1329330	42.38	ug/L		99
95)	4-Isopropyltoluene	13.000	119	1139687	43.31	ug/L		100
96)	1,3-Dichlorobenzene	13.140	146	592193	41.31	ug/L		100
97)	1,4-Dichlorobenzene	13.219	146	625233	41.09	ug/L		95
98)	n-Butylbenzene	13.432	92	653153	43.06	ug/L		99
99)	Benzyl Chloride	13.450	126	96820	43.24	ug/L	#	69
100)	1,2-Dichlorobenzene	13.645	146	551870	40.23	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.381	75	34616	34.62	ug/L		96
102)	Hexachlorobutadiene	14.928	225	252909	41.27	ug/L		96
103)	1,2,4-Trichlorobenzene	14.977	180	388180	38.75	ug/L		96
104)	Naphthalene	15.257	128	529192	31.55	ug/L		100
105)	1,2,3-Trichlorobenzene	15.427	180	318836	35.92	ug/L		99
107)	Ethanol	4.276	45	31896m	994.56	ug/L		
108)	acrolein	4.763	56	149294	175.45	ug/L		98
109)	Tert Butyl Alcohol	5.371	59	139260	394.77	ug/L	#	65
110)	tert Amyl alcohol	7.573	59	102604	414.67	ug/L		90
111)	Isobutyl alcohol	7.451	42	102863	765.23	ug/L		93
112)	1,4-Dioxane	8.674	88	30493	1055.18	ug/L		94
113)	3,3-Dimethyl-1-butanol	10.432	57	574706	1895.96	ug/L		97

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

7.6.10

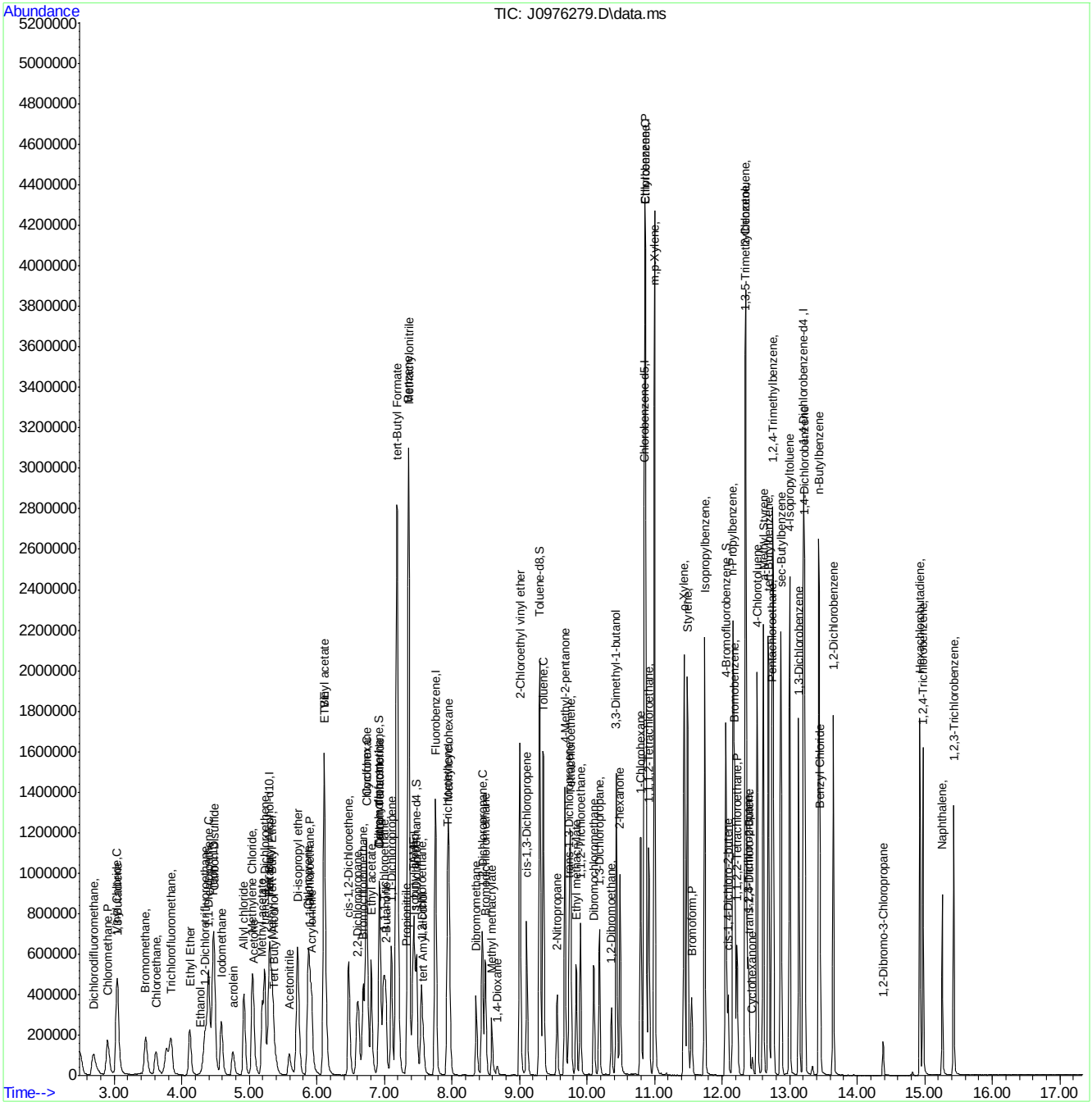
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976279.D
Acq On : 4 May 2016 8:45 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 12:54:03 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



SGS ACCUTEST FA33606

Manual Integration Approval Summary

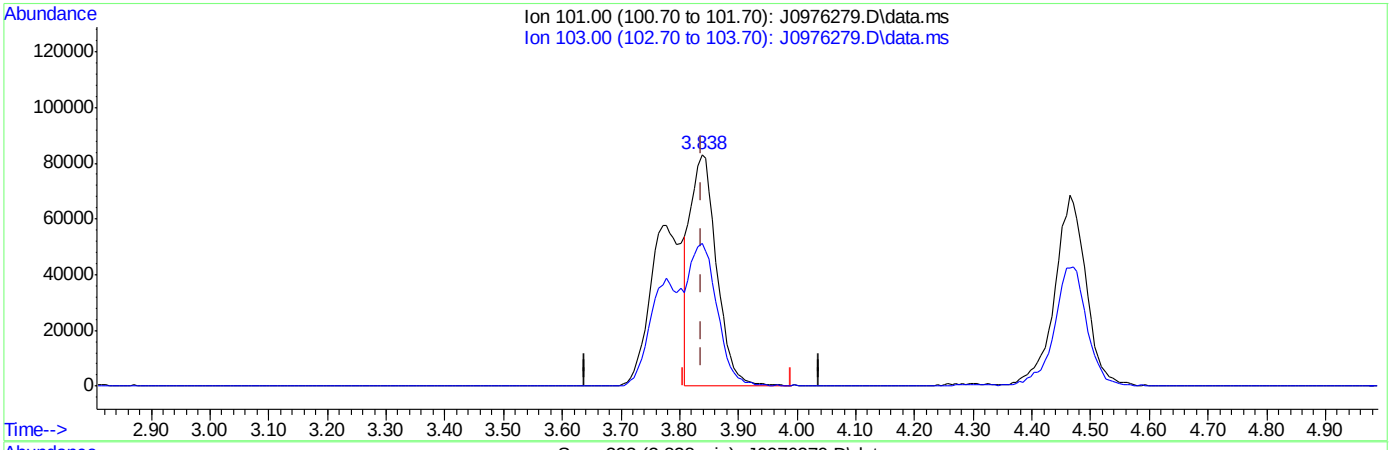
Sample Number:	VJ5285-CC5237	**Method:**	SW846 8260B
Lab FileID:	J0976279.D	**Analyst approved:**	05/04/16 12:56 Darshna Patel
Injection Time:	05/04/16 08:45	**Supervisor approved:**	05/04/16 13:59 Juan Garcia

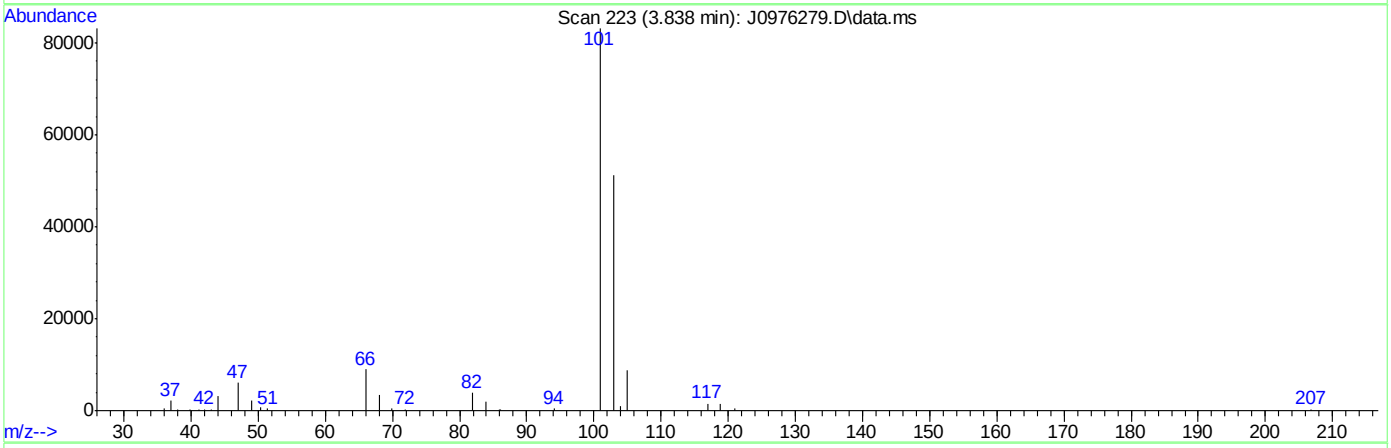
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976279.D
Acq On : 4 May 2016 8:45 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:10:51 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976279.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 26.00ug/L

response 263112

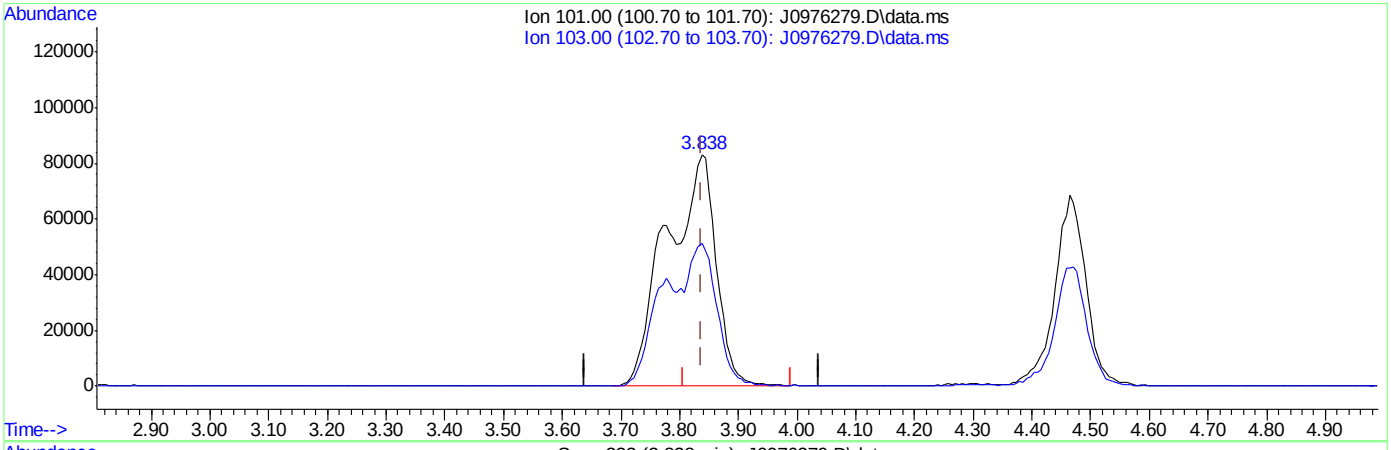
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	61.66
0.00	0.00	0.00
0.00	0.00	0.00

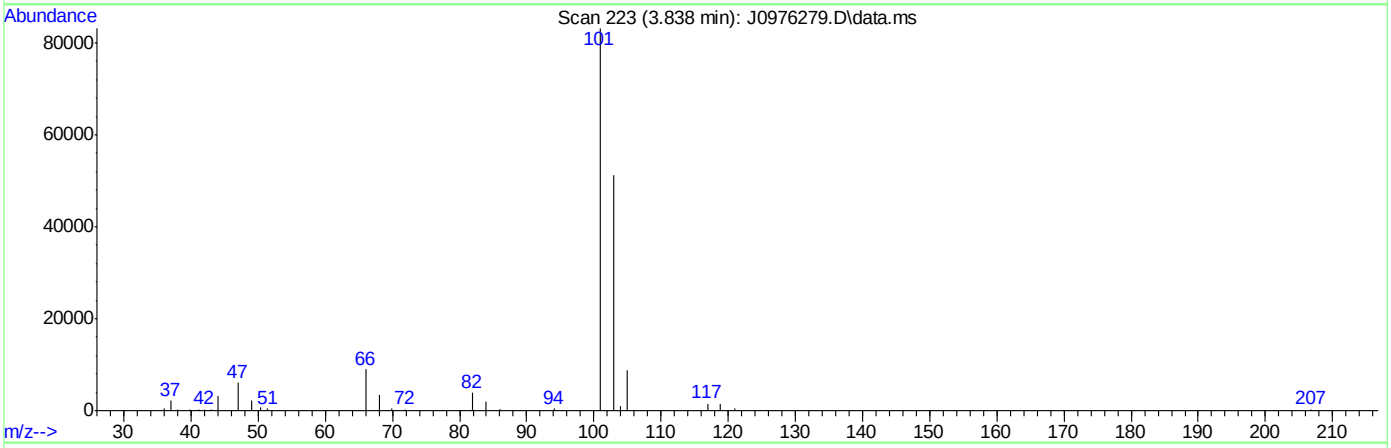
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976279.D
Acq On : 4 May 2016 8:45 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:10:51 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976279.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 47.92ug/L m

response 484863

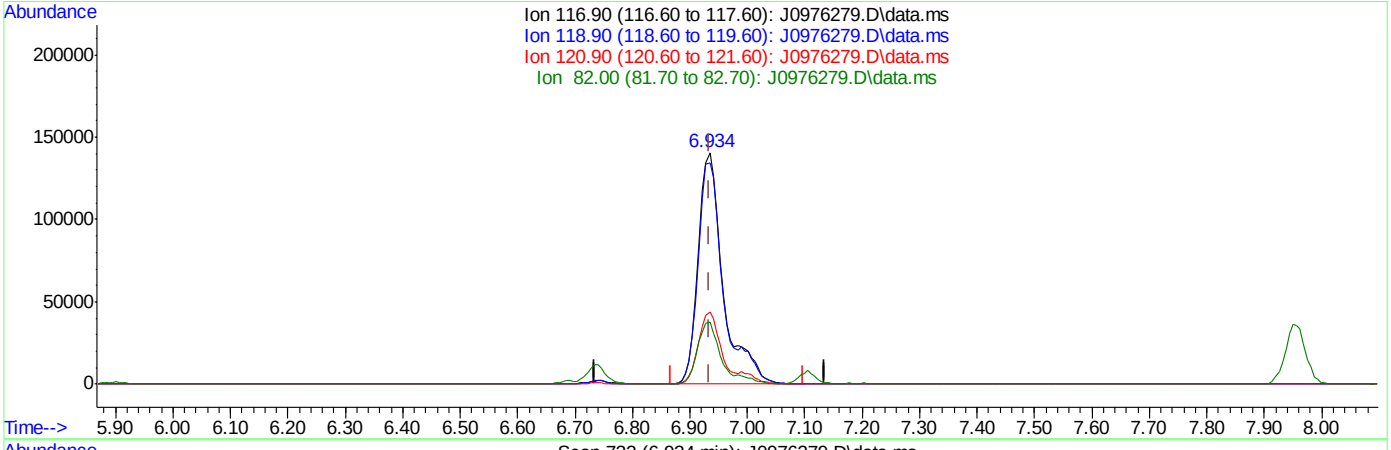
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	61.66
0.00	0.00	0.00
0.00	0.00	0.00

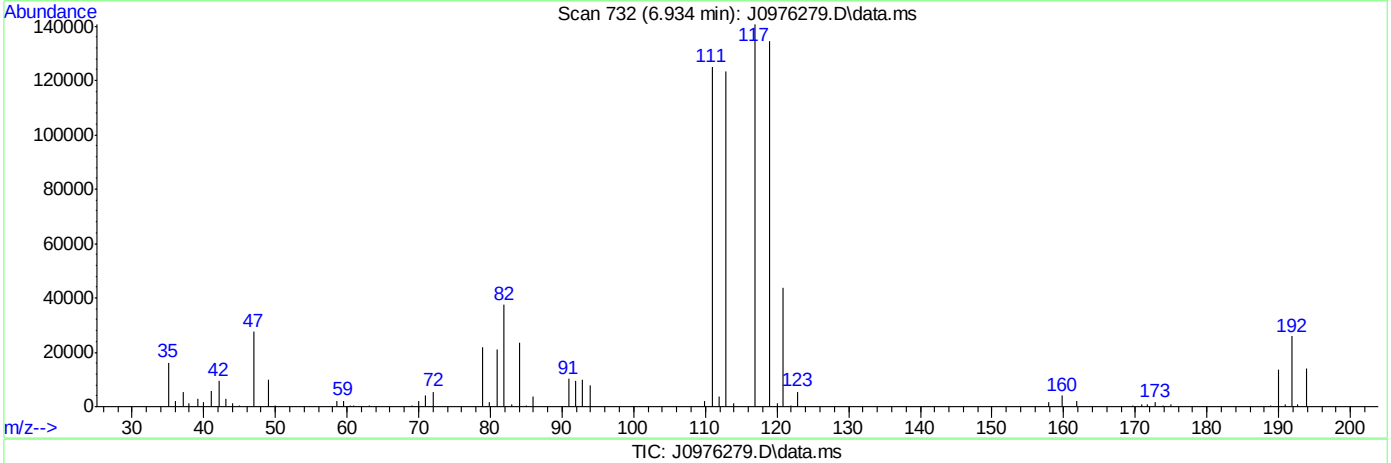
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976279.D
Acq On : 4 May 2016 8:45 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:10:51 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976279.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 51.61ug/L

response 427414

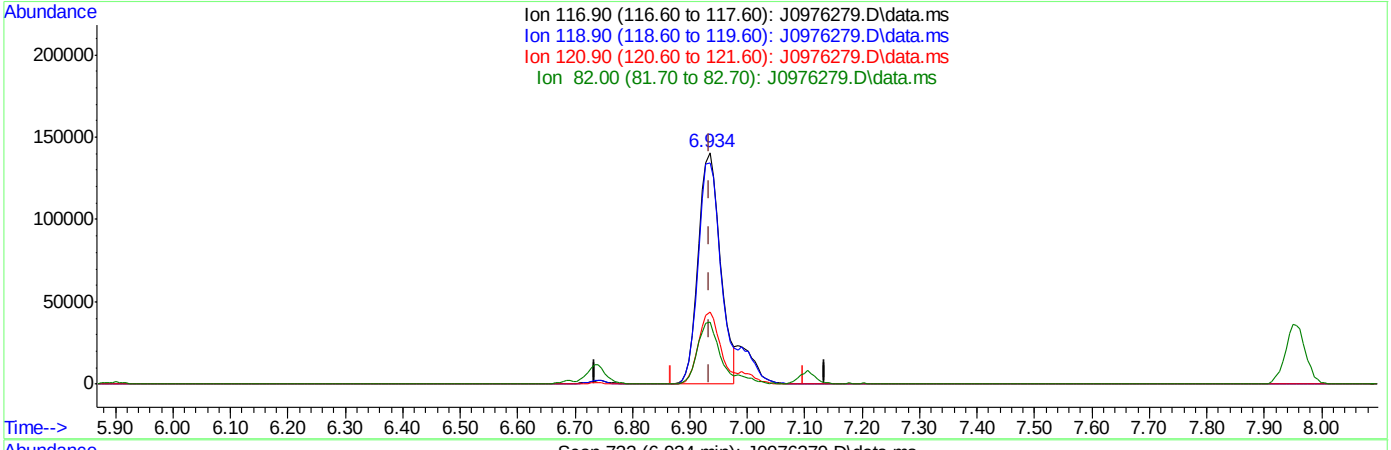
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.63
120.90	31.80	31.18
82.00	25.40	26.59

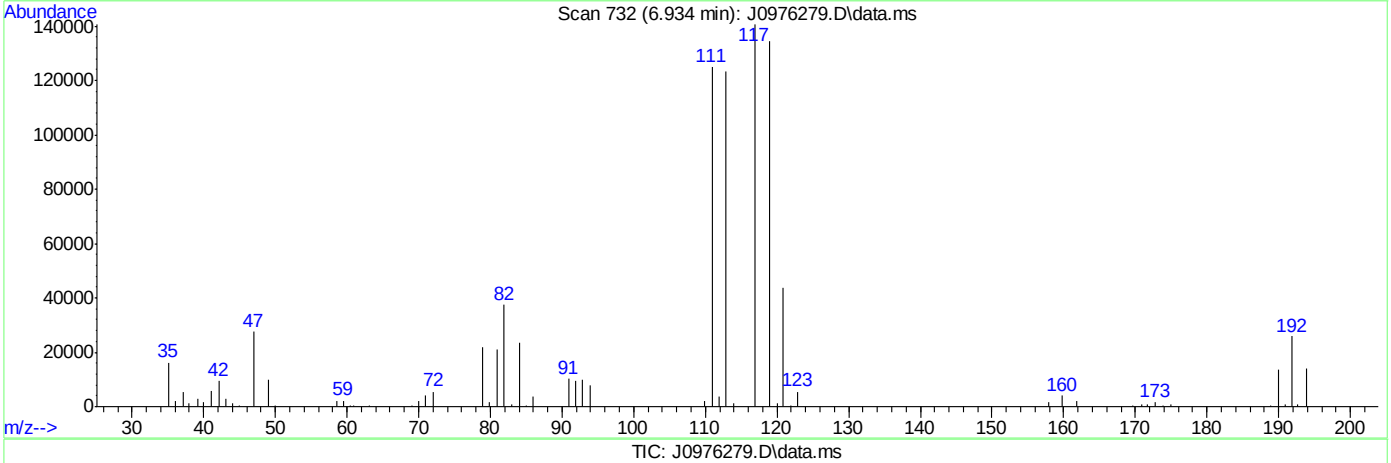
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976279.D
Acq On : 4 May 2016 8:45 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:10:51 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976279.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 45.30ug/L m

response 375158

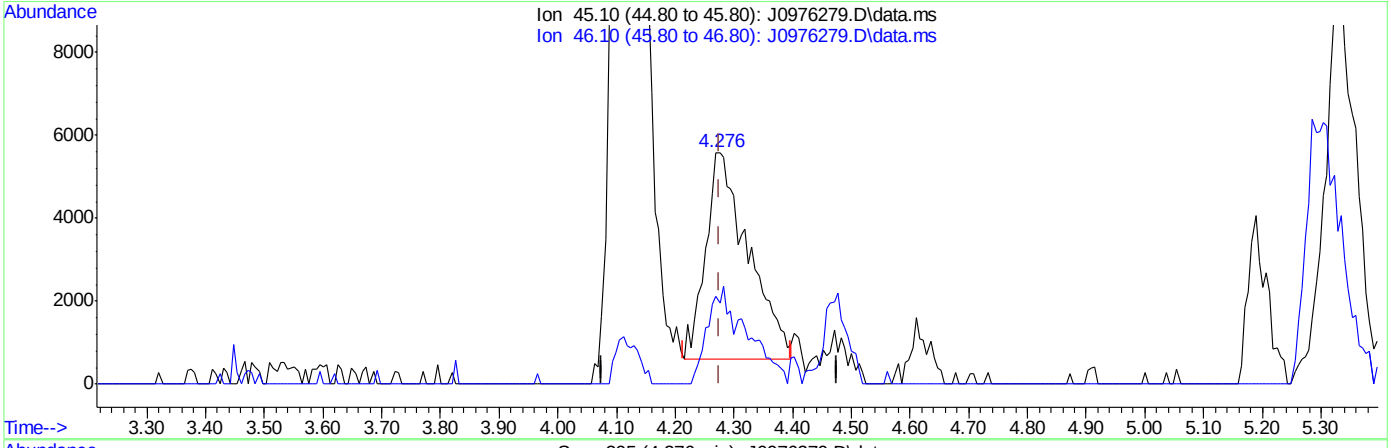
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	95.63
120.90	31.80	31.18
82.00	25.40	26.59

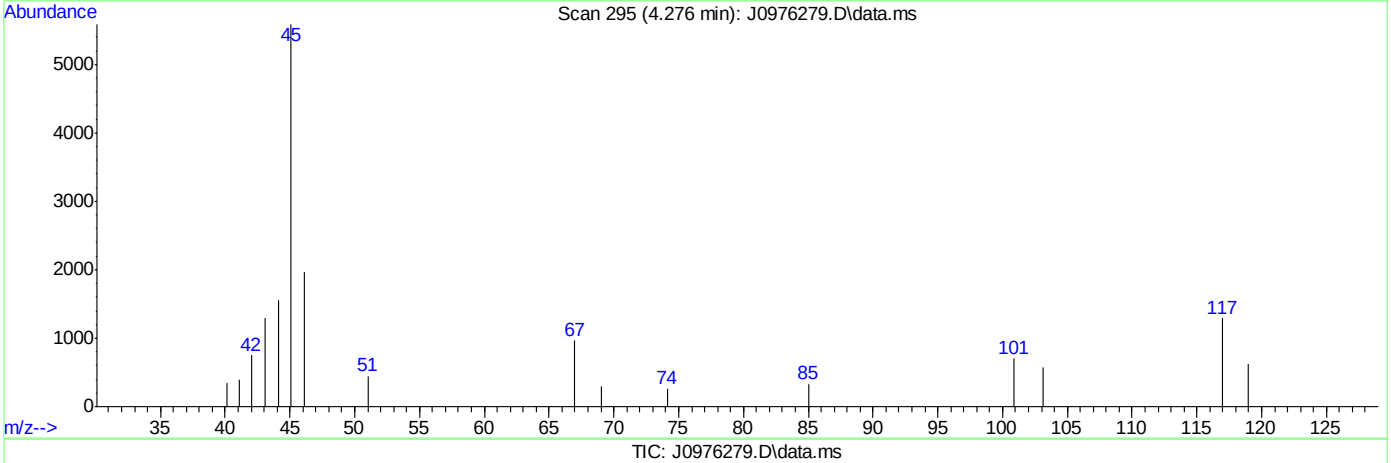
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976279.D
Acq On : 4 May 2016 8:45 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:10:51 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976279.D\data.ms

(107) Ethanol

4.276min (-0.000) 758.61ug/L

response 25039

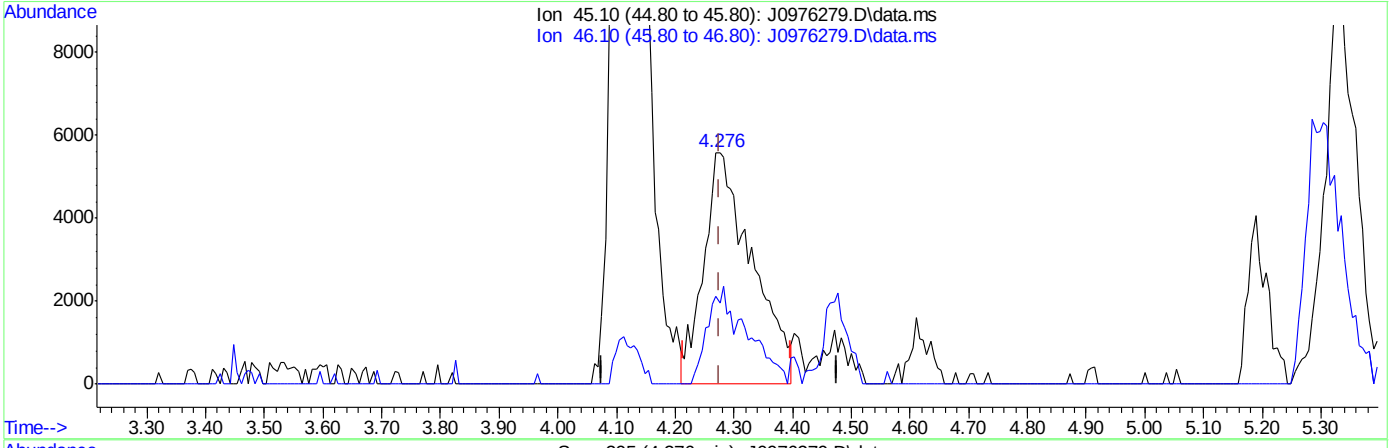
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	39.47
0.00	0.00	0.00
0.00	0.00	0.00

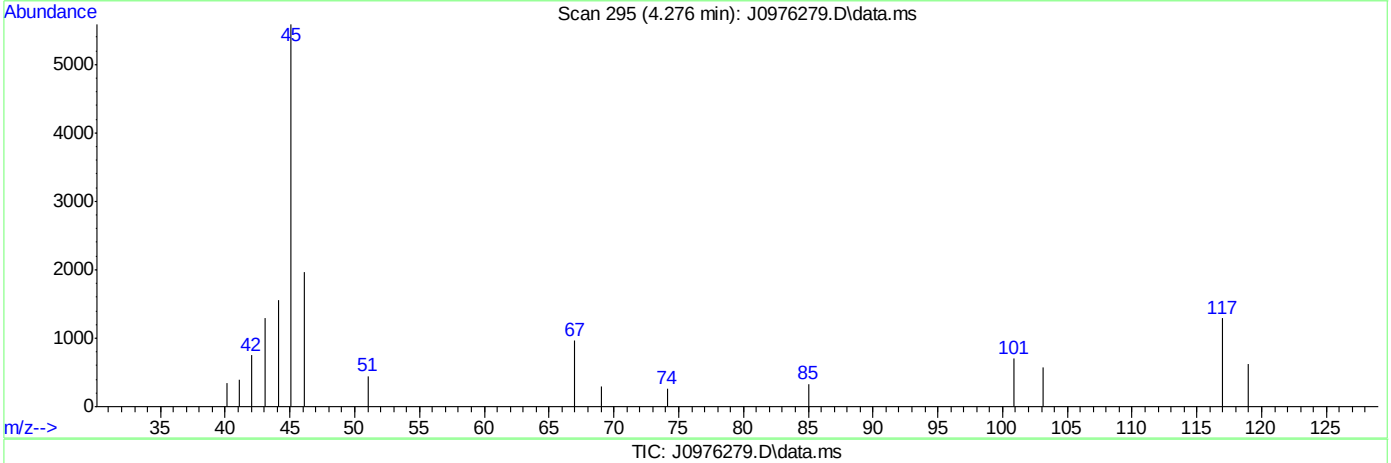
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976279.D
Acq On : 4 May 2016 8:45 am
Operator : darshnap
Sample : cc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5285,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: May 04 09:10:51 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976279.D\data.ms

(107) Ethanol

4.276min (-0.000) 994.56ug/L m

response 31896

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	35.18
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33606

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 05/05/16 10:16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976302.D
Acq On : 4 May 2016 5:52 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5286,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 05 08:24:14 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.756	96	1178939	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.846	117	948558	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.207	152	546553	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.304	65	70243	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.928	113	305354	51.04	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.08%			
46) 1,2-Dichloroethane-d4	7.482	65	356475	49.27	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.54%			
57) Toluene-d8	9.301	98	1193695	47.83	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 95.66%			
79) 4-Bromofluorobenzene	12.057	95	475850	48.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 96.26%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.700	85	300401	41.39	ug/L	99
3) Chloromethane	2.901	50	330206	42.52	ug/L	95
4) Vinyl Chloride	3.047	62	370747	46.60	ug/L	99
5) 1,3-Butadiene	3.041	54	285125	48.21	ug/L	94
6) Bromomethane	3.461	94	217157	39.21	ug/L	96
7) Chloroethane	3.619	64	168335	43.09	ug/L	99
8) Trichlorofluoromethane	3.838	101	485065m	49.15	ug/L	
9) Ethyl Ether	4.124	59	185975	40.79	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.355	67	293115	42.77	ug/L	99
11) 1,1-Dichloroethene	4.398	61	365634	42.83	ug/L	96
12) Freon 113	4.464	101	256590	43.47	ug/L	98
13) Carbon Disulfide	4.477	76	784737	44.15	ug/L	95
14) Iodomethane	4.586	142	386504	40.98	ug/L	99
15) Allyl chloride	4.921	41	340216	43.12	ug/L	94
16) Methylene Chloride	5.042	49	320398	41.73	ug/L	98
17) Acetone	5.073	58	75193	212.68	ug/L	99
18) Methyl acetate	5.194	74	135023	196.12	ug/L	94
19) trans-1,2-Dichloroethene	5.231	61	327609	41.79	ug/L	97
20) Hexane	5.298	56	222375	44.21	ug/L	98
21) Methyl Tert Butyl Ether	5.334	73	619294	39.63	ug/L	85
22) Acetonitrile	5.596	40	96101	433.43	ug/L	99
23) Di-isopropyl ether	5.718	45	730903	40.86	ug/L	98
24) Chloroprene	5.870	53	373113	44.27	ug/L	98
25) 1,1-Dichloroethane	5.900	63	434488	41.51	ug/L	99
26) Acrylonitrile	5.924	53	298098	190.55	ug/L	94
27) ETBE	6.119	59	747538	41.73	ug/L	98
28) Vinyl acetate	6.107	43	1811029	199.89	ug/L	98
29) cis-1,2-Dichloroethene	6.472	96	272491	40.55	ug/L	99
30) 2,2-Dichloropropane	6.606	77	350982	42.97	ug/L	99
31) Bromochloromethane	6.685	128	123384	40.61	ug/L	92
32) Cyclohexane	6.734	56	427864	43.48	ug/L	97
33) Chloroform	6.740	83	474574	40.84	ug/L	95
34) Ethyl acetate	6.807	43	687466	188.71	ug/L	98

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976302.D
Acq On : 4 May 2016 5:52 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5286,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 05 08:24:14 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Tetrahydrofuran	6.922	42	36160	34.12	ug/L	89
37) Carbon Tetrachloride	6.934	117	368303m	45.60	ug/L	
38) 1,1,1-Trichloroethane	6.995	97	427019	42.98	ug/L	95
39) 2-Butanone	7.026	43	317263	207.88	ug/L	96
40) 1,1-Dichloropropene	7.105	75	335453	41.81	ug/L	98
41) tert-Butyl Formate	7.190	59	1507652	413.16	ug/L	94
42) Propionitrile	7.336	54	204790	379.05	ug/L	98
43) Methacrylonitrile	7.360	41	935468	372.09	ug/L	96
44) Benzene	7.360	78	1040712	42.61	ug/L	97
45) TAME	7.433	73	655899	40.58	ug/L	95
47) 1,2-Dichloroethane	7.549	62	331608	38.79	ug/L	99
48) Trichloroethene	7.938	95	263279	41.60	ug/L	97
49) Methylcyclohexane	7.956	83	471241	44.32	ug/L	99
50) Dibromomethane	8.364	93	138741	39.28	ug/L	97
51) 1,2-Dichloropropane	8.449	63	248672	40.53	ug/L	94
52) Bromodichloromethane	8.498	83	335513	42.66	ug/L	99
53) Methyl methacrylate	8.595	41	127282	39.24	ug/L	91
54) 2-Chloroethyl vinyl ether	9.009	63	608981	195.43	ug/L	99
55) cis-1,3-Dichloropropene	9.112	75	391233	41.22	ug/L	97
58) Toluene	9.356	91	1086519	39.55	ug/L	99
59) 2-Nitropropane	9.556	41	205515	188.52	ug/L	98
60) 4-Methyl-2-pentanone	9.672	43	837020	213.25	ug/L	98
61) trans-1,3-Dichloropropene	9.739	75	336602	39.10	ug/L	95
62) Tetrachloroethene	9.757	166	271428	36.96	ug/L	98
63) Ethyl methacrylate	9.842	69	238341	37.98	ug/L	98
64) 1,1,2-Trichloroethane	9.903	83	172063	38.39	ug/L	96
65) Dibromochloromethane	10.104	129	236239	41.47	ug/L	94
66) 1,3-Dichloropropane	10.183	76	345813	37.77	ug/L	97
67) 1,2-Dibromoethane	10.366	107	191696	37.74	ug/L	96
68) 2-hexanone	10.487	43	580220	223.56	ug/L	96
69) 1-Chlorohexane	10.797	91	341497	42.39	ug/L	98
70) Ethylbenzene	10.858	91	1333681	42.58	ug/L	99
71) Chlorobenzene	10.864	112	755942	41.37	ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.913	131	247758	41.69	ug/L	98
73) m,p-Xylene	10.998	91	2015997	84.53	ug/L	99
74) o-Xylene	11.436	91	1003187	41.45	ug/L	99
75) Styrene	11.485	104	782448	40.52	ug/L	97
76) Bromoform	11.546	173	145597	40.16	ug/L	98
77) Isopropylbenzene	11.740	105	1218050	43.55	ug/L	99
80) cis-1,4-Dichloro-2-butene	12.087	53	65394	36.82	ug/L	97
81) n-Propylbenzene	12.160	91	1506373	43.44	ug/L	100
82) Bromobenzene	12.184	156	329789	40.39	ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.221	83	256177	38.87	ug/L	98
84) 1,3,5-Trimethylbenzene	12.343	105	1157807	44.12	ug/L	100
85) 2-Chlorotoluene	12.349	91	1089215	42.79	ug/L	98
86) trans-1,4-Dichloro-2-B...	12.397	53	62241	37.29	ug/L #	81
87) 1,2,3-Trichloropropane	12.385	110	64921	38.65	ug/L	96
88) Cyclohexanone	12.446	55	30031	284.34	ug/L	98
89) 4-Chlorotoluene	12.519	91	960340	42.14	ug/L	98
90) a-Methyl Styrene	12.604	118	602793	80.43	ug/L	99

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976302.D
Acq On : 4 May 2016 5:52 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5286,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 05 08:24:14 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.683	91	651149	42.47	ug/L	97
92) 1,2,4-Trimethylbenzene	12.750	105	1141379	43.55	ug/L	98
93) Pentachloroethane	12.738	167	210440	42.68	ug/L	94
94) sec-Butylbenzene	12.866	105	1381315	43.59	ug/L	100
95) 4-Isopropyltoluene	13.000	119	1174301	44.18	ug/L	99
96) 1,3-Dichlorobenzene	13.134	146	584493	40.36	ug/L	97
97) 1,4-Dichlorobenzene	13.219	146	611173	39.76	ug/L	95
98) n-Butylbenzene	13.432	92	659777	43.06	ug/L	99
99) Benzyl Chloride	13.450	126	90477	40.22	ug/L #	73
100) 1,2-Dichlorobenzene	13.645	146	542608	39.15	ug/L	98
101) 1,2-Dibromo-3-Chloropr...	14.381	75	34172	33.86	ug/L	95
102) Hexachlorobutadiene	14.928	225	253879	41.01	ug/L	98
103) 1,2,4-Trichlorobenzene	14.971	180	379527	37.51	ug/L	96
104) Naphthalene	15.257	128	536995	31.70	ug/L	100
105) 1,2,3-Trichlorobenzene	15.427	180	318100	35.47	ug/L	97
107) Ethanol	4.276	45	30893m	998.52	ug/L	
108) acrolein	4.756	56	154409	188.01	ug/L	94
109) Tert Butyl Alcohol	5.383	59	142138	417.47	ug/L	97
110) tert Amyl alcohol	7.573	59	109084	456.76	ug/L	91
111) Isobutyl alcohol	7.451	42	100816	778.05	ug/L #	83
112) 1,4-Dioxane	8.674	88	30552	1095.36	ug/L	91
113) 3,3-Dimethyl-1-butanol	10.432	57	611366	2089.66	ug/L	98

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

7.6.11

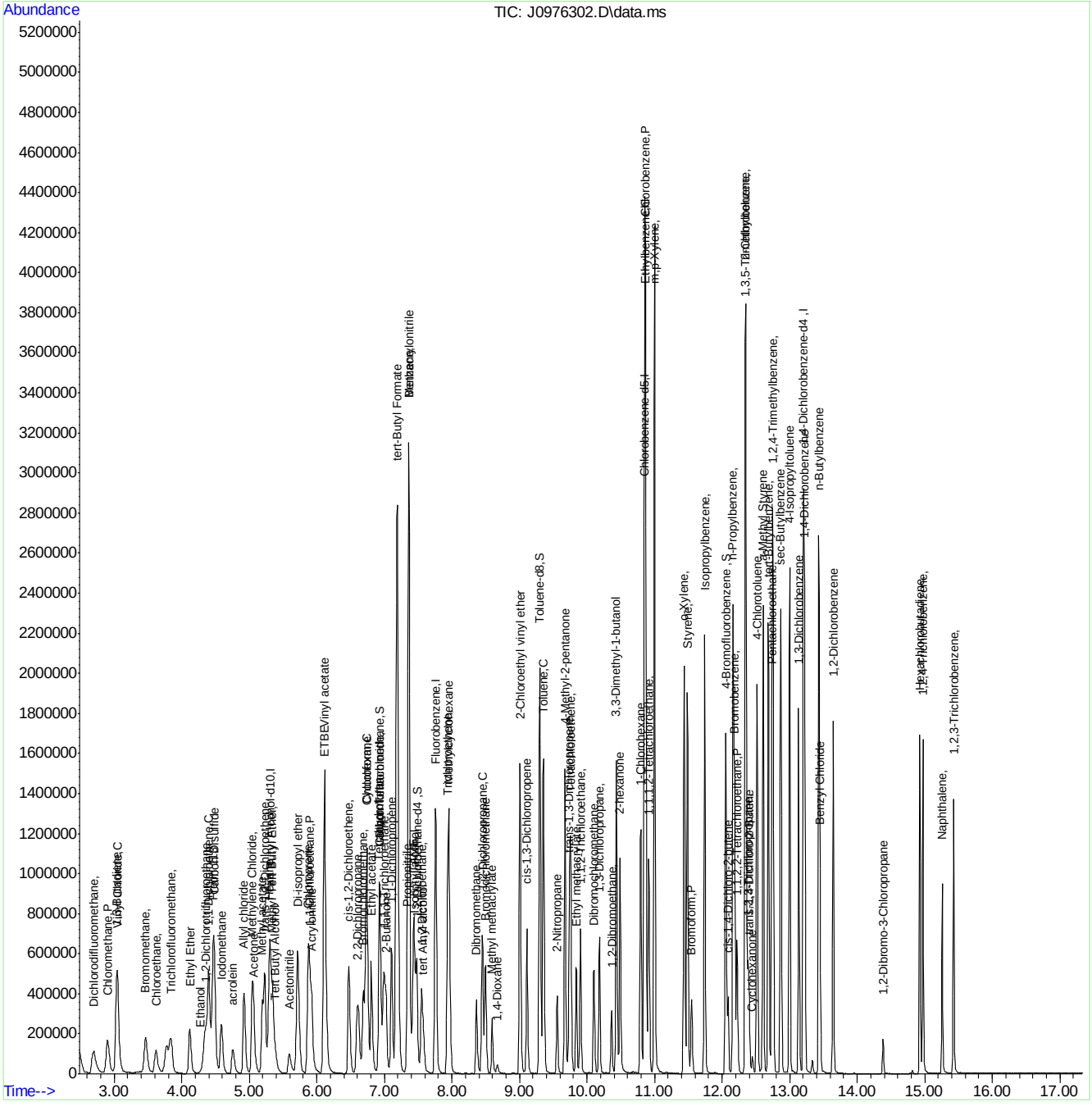
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976302.D
Acq On : 4 May 2016 5:52 pm
Operator : darshnap
Sample : ecc5237-5 Inst : MSVOA6
Misc : MS33770,VJ5286,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 05 08:24:14 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration



Manual Integration Approval Summary

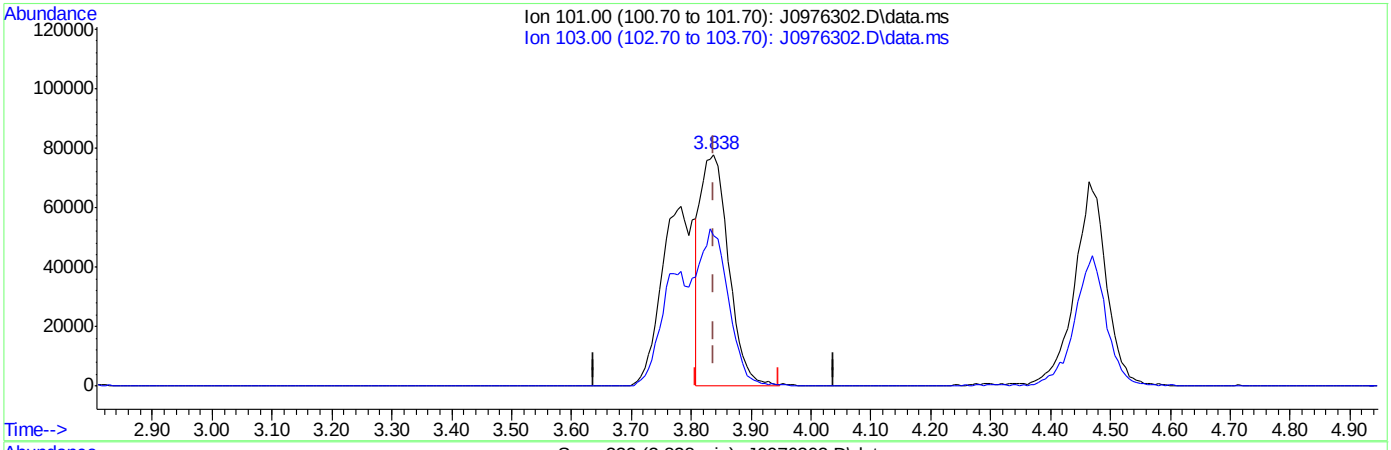
Sample Number:	VJ5286-ECC5237	**Method:**	SW846 8260B
Lab FileID:	J0976302.D	**Analyst approved:**	05/05/16 09:43 Darshna Patel
Injection Time:	05/04/16 17:52	**Supervisor approved:**	05/05/16 10:16 Melissa Mangual

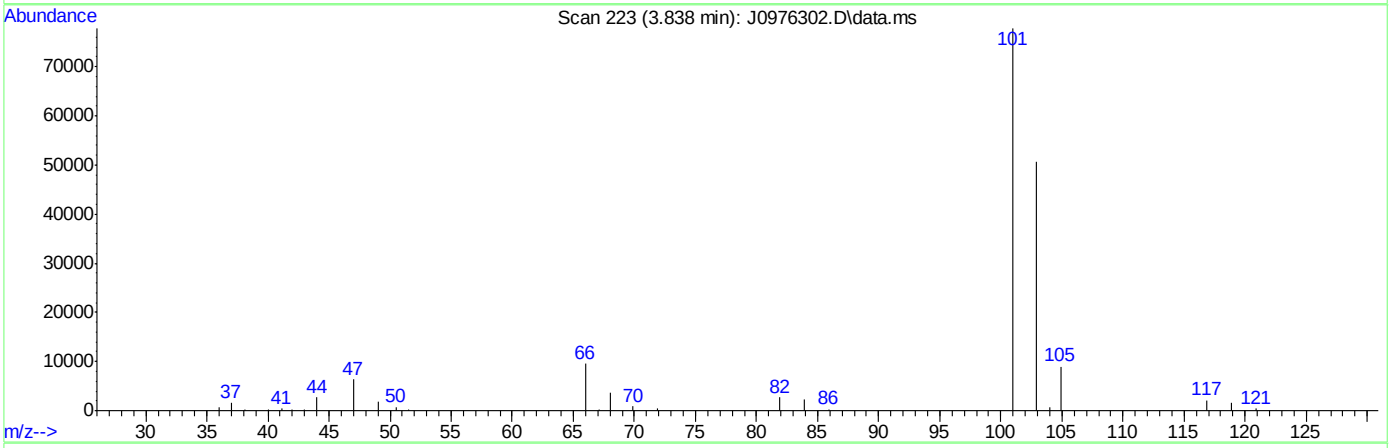
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.84	Split peak
Ethyl Alcohol	64-17-5		4.28	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.93	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976302.D
Acq On : 4 May 2016 5:52 pm
Operator : darshnap
Sample : fa33614-2msd,20x Inst : MSVOA6
Misc : MS33770,VJ5286,,,,,20
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 05 08:01:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976302.D\data.ms

(8) Trichlorofluoromethane ( )

3.838min (-0.000) 25.76ug/L

response 254192

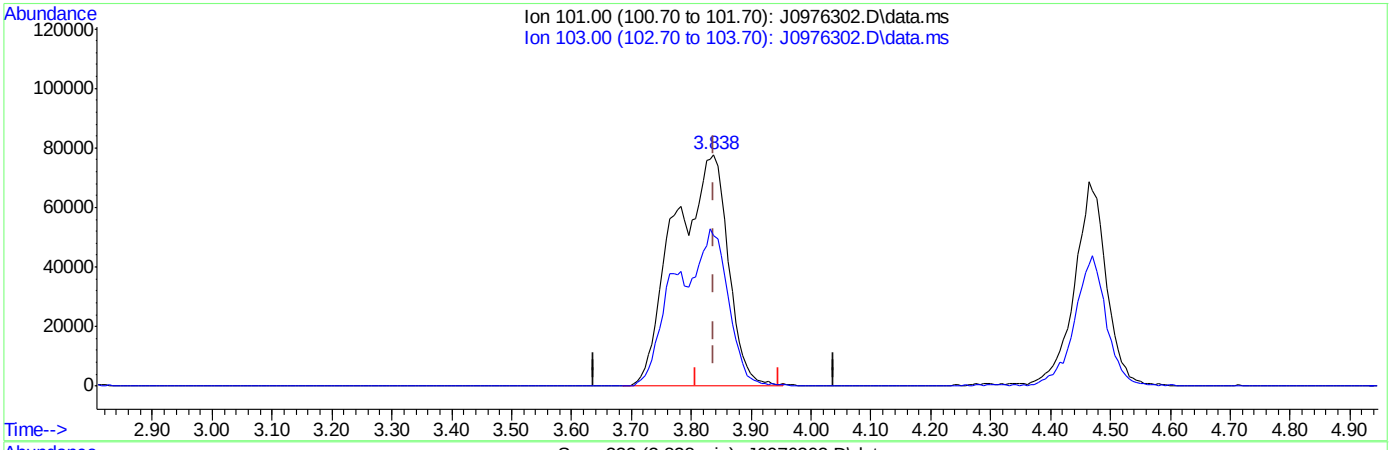
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	64.95
0.00	0.00	0.00
0.00	0.00	0.00

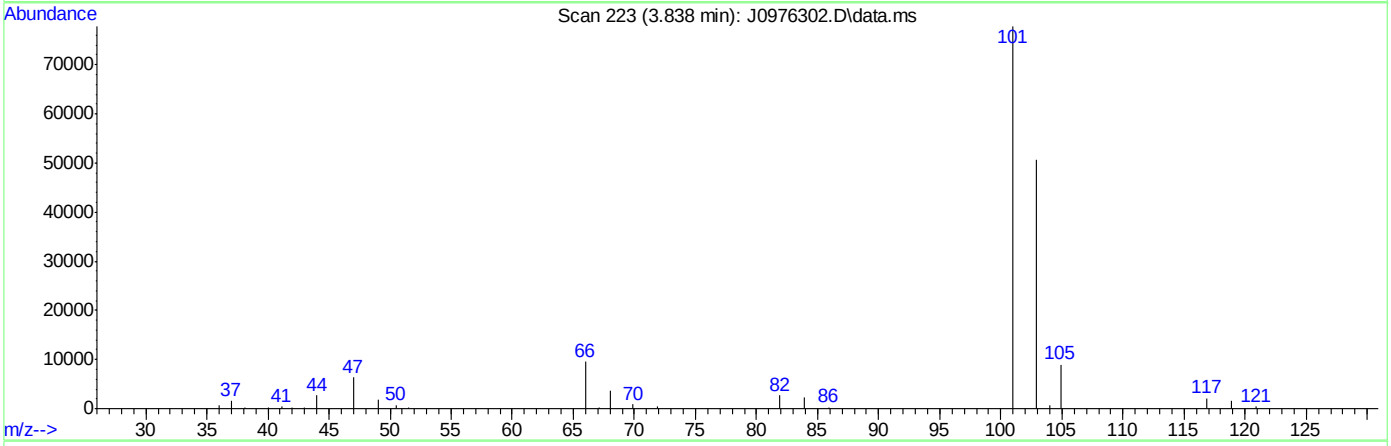
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976302.D
Acq On : 4 May 2016 5:52 pm
Operator : darshnap
Sample : fa33614-2msd,20x Inst : MSVOA6
Misc : MS33770,VJ5286,,,,,20
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 05 08:01:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





(8) Trichlorofluoromethane ( )

3.838min (-0.000) 49.15ug/L m

response 485065

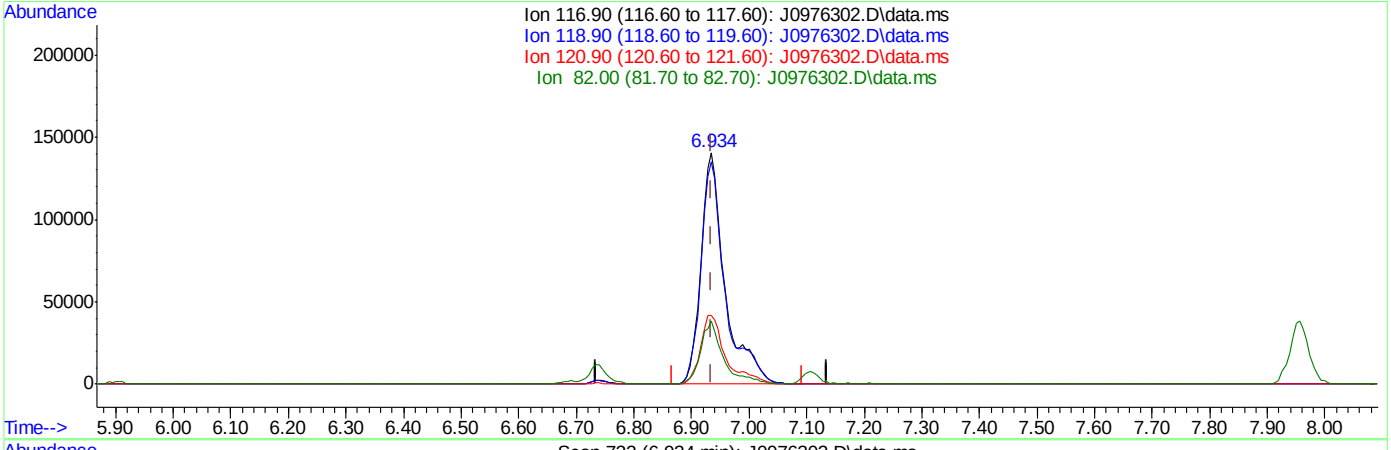
Ion	Exp%	Act%
101.00	100	100
103.00	63.50	65.07
0.00	0.00	0.00
0.00	0.00	0.00

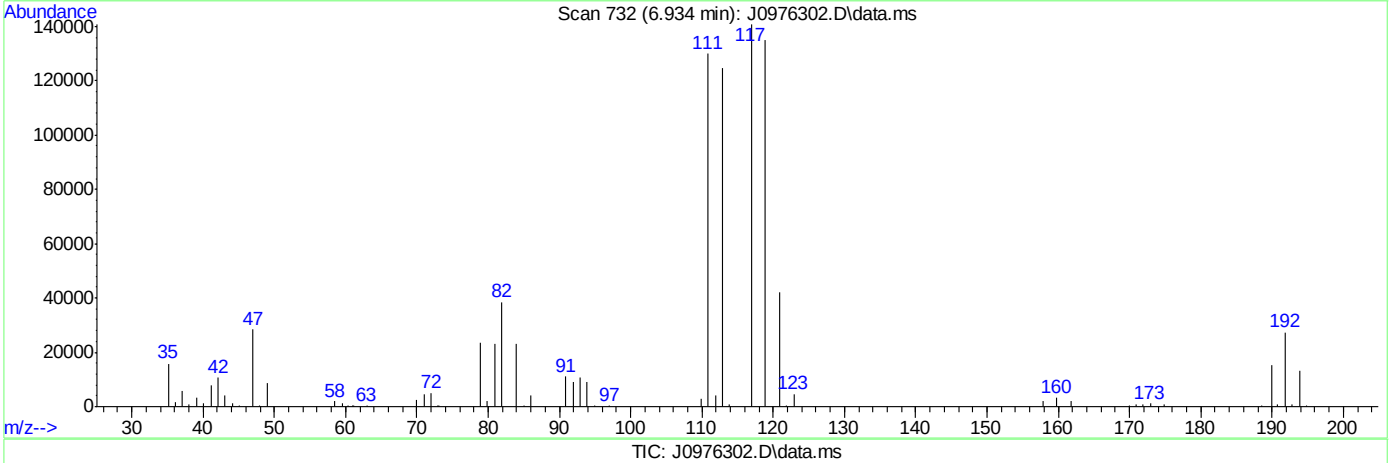
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976302.D
Acq On : 4 May 2016 5:52 pm
Operator : darshnap
Sample : fa33614-2msd,20x Inst : MSVOA6
Misc : MS33770,VJ5286,,,,,20
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 05 08:01:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976302.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 51.05ug/L

response 412315

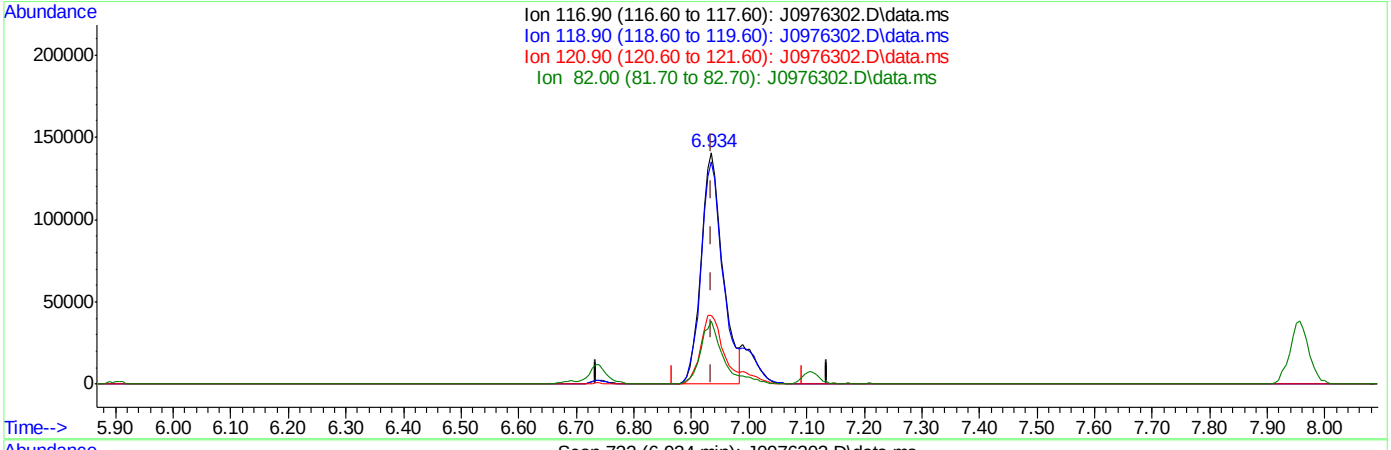
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	96.00
120.90	31.80	29.77
82.00	25.40	27.36

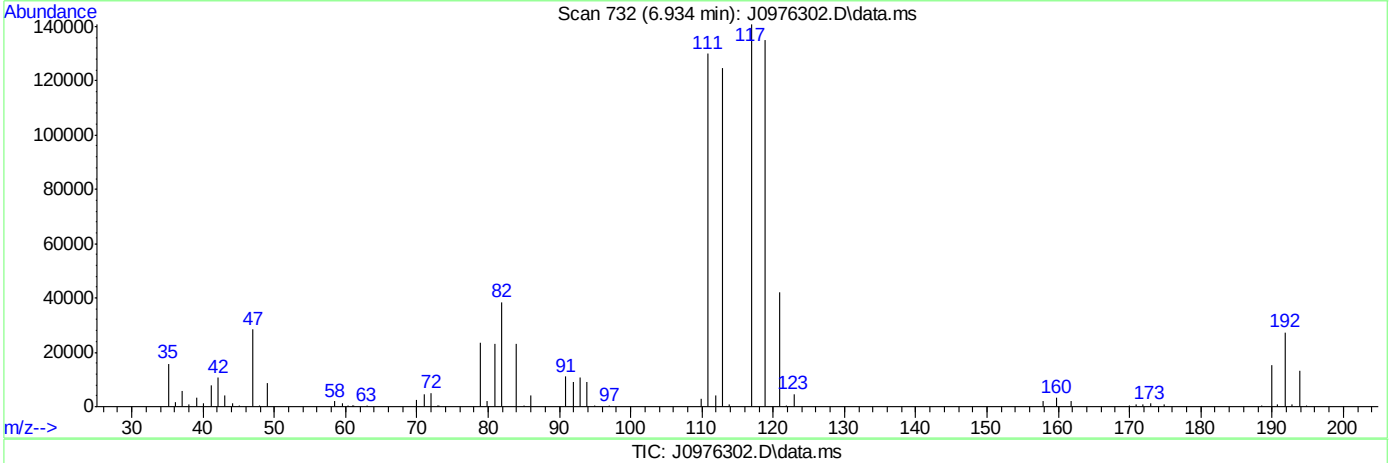
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976302.D
Acq On : 4 May 2016 5:52 pm
Operator : darshnap
Sample : fa33614-2msd,20x Inst : MSVOA6
Misc : MS33770,VJ5286,,,,,20
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 05 08:01:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976302.D\data.ms

(37) Carbon Tetrachloride ( )

6.934min (-0.001) 45.60ug/L m

response 368303

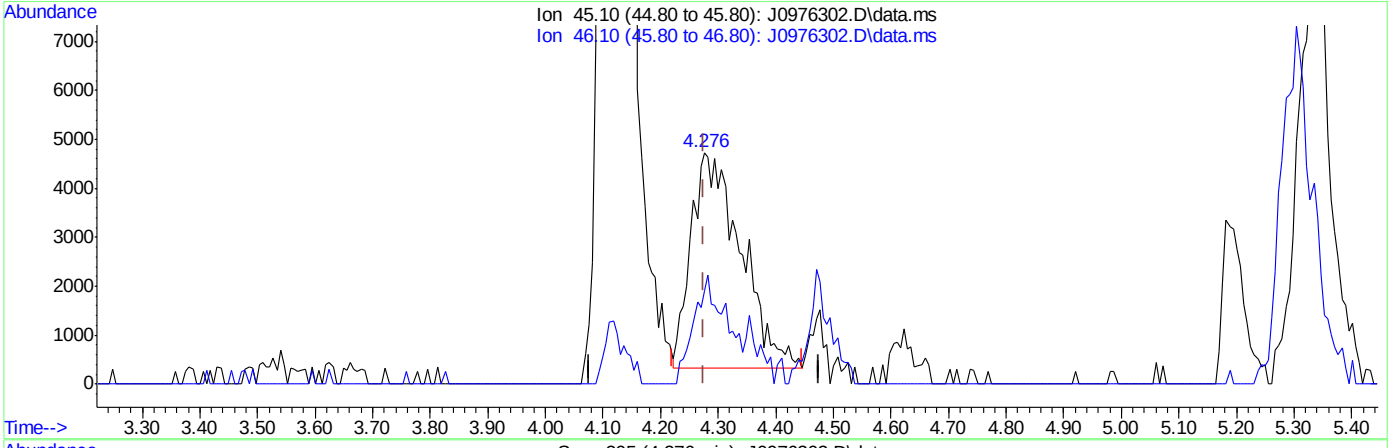
Ion	Exp%	Act%
116.90	100	100
118.90	96.80	96.00
120.90	31.80	29.77
82.00	25.40	27.36

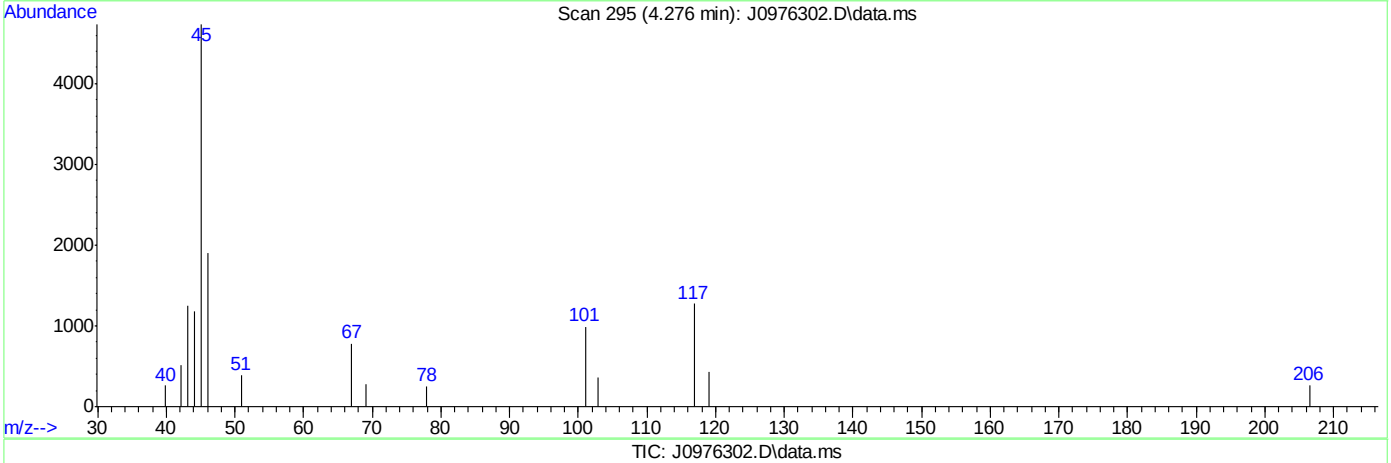
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976302.D
Acq On : 4 May 2016 5:52 pm
Operator : darshnap
Sample : fa33614-2msd,20x Inst : MSVOA6
Misc : MS33770,VJ5286,,,,,20
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 05 08:01:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976302.D\data.ms

(107) Ethanol

4.276min (-0.000) 831.74ug/L

response 26264

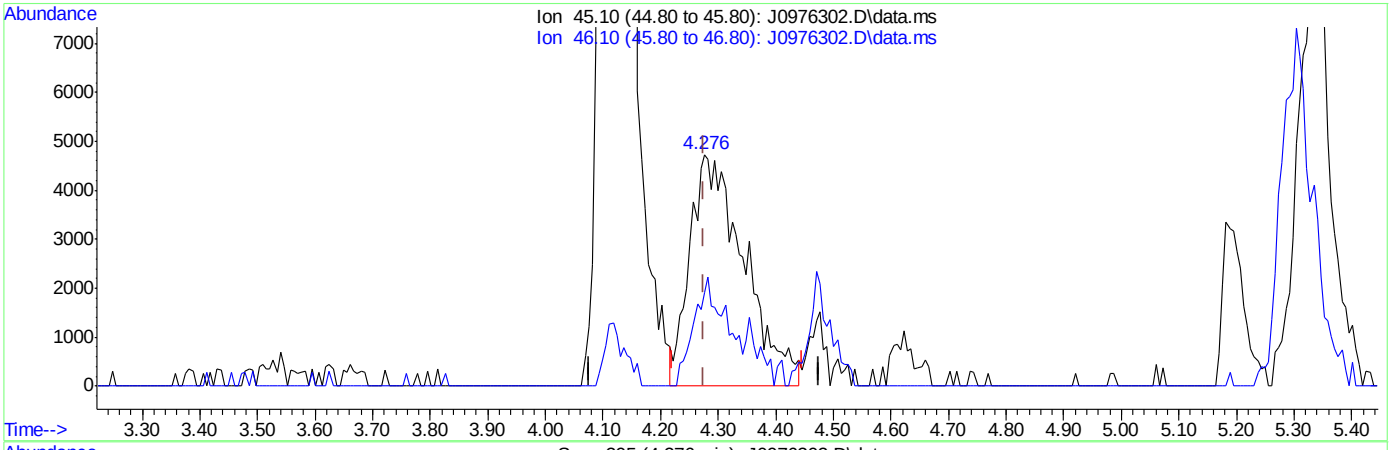
Ion	Exp%	Act%
45.10	100	100
46.10	28.20	43.42
0.00	0.00	0.00
0.00	0.00	0.00

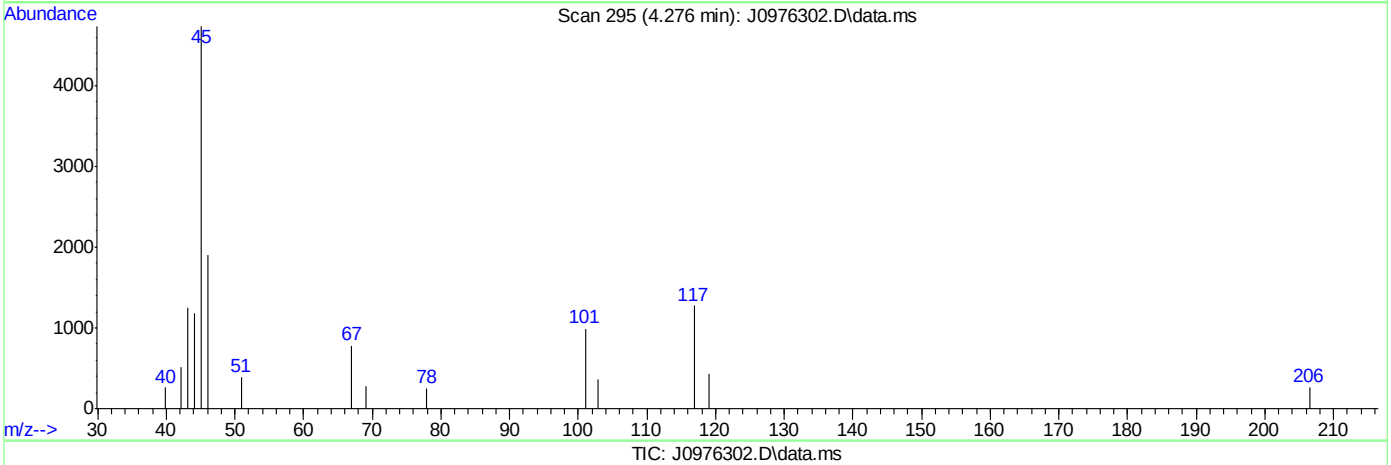
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\2\data\050416\
Data File : J0976302.D
Acq On : 4 May 2016 5:52 pm
Operator : darshnap
Sample : fa33614-2msd,20x Inst : MSVOA6
Misc : MS33770,VJ5286,,,,,20
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 05 08:01:29 2016
Quant Method : C:\msdchem\2\methods\MSJ031516.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Mar 16 08:34:48 2016
Response via : Initial Calibration





TIC: J0976302.D\data.ms

(107) Ethanol

4.276min (-0.000) 998.52ug/L m

response 30893

Ion	Exp%	Act%
45.10	100	100
46.10	28.20	40.32
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33606

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
04/26/16 10:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28092.D
Acq On : 25 Apr 2016 9:09 am
Operator : ANGIED
Sample : IC1133-1 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 25 10:22:40 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:04:05 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.122	96	1305093	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.310	117	885352	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.682	152	403151	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.628	65	140559	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	289840	49.55	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.10%			
44) 1,2-Dichloroethane-d4	6.824	65	337985	50.70	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 101.40%			
55) Toluene-d8	8.746	98	1250636	47.64	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 95.28%			
77) 4-Bromofluorobenzene	11.533	174	291145	50.08	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.982	85	55060	4.78	ug/Kg	89
3) Chloromethane	2.200	50	65393	4.80	ug/Kg	95
4) Vinyl Chloride	2.316	62	65616	4.78	ug/Kg	95
5) Bromomethane	2.718	94	30739	4.50	ug/Kg	93
6) Chloroethane	2.882	64	34886	5.30	ug/Kg	97
7) Trichlorofluoromethane	3.052	101	60069	4.68	ug/Kg	96
8) Ethyl Ether	3.411	59	27706	4.30	ug/Kg	89
9) 1,2-Dichlorotrifluoroe...	3.636	67	57107	5.26	ug/Kg	97
10) 1,1-Dichloroethene	3.654	61	68590	4.55	ug/Kg	91
11) Freon 113	3.709	101	44016	4.86	ug/Kg	92
12) Carbon Disulfide	3.697	76	147027	4.85	ug/Kg	85
13) Iodomethane	3.813	142	60504	4.87	ug/Kg	96
14) Allyl chloride	4.178	41	61578	4.54	ug/Kg	98
15) Methylene Chloride	4.299	49	85681	6.64	ug/Kg	96
16) Acetone	4.348	43	50257	25.33	ug/Kg	96
17) Methyl acetate	4.488	43	102852	22.64	ug/Kg	92
18) trans-1,2-Dichloroethene	4.488	61	52810	4.45	ug/Kg	95
19) Hexane	4.579	56	39636	5.25	ug/Kg	78
20) Methyl Tert Butyl Ether	4.616	73	93901	4.42	ug/Kg#	24
21) Acetonitrile	4.853	41	36322	40.77	ug/Kg	98
22) Di-isopropyl ether	5.029	45	114570	4.55	ug/Kg	97
23) Chloroprene	5.145	53	65189	4.46	ug/Kg	98
24) 1,1-Dichloroethane	5.163	63	74091	4.72	ug/Kg	95
25) Acrylonitrile	5.200	53	53635	20.49	ug/Kg	94
26) ETBE	5.431	59	107279	4.45	ug/Kg	89
27) Vinyl acetate	5.425	43	300033	22.34	ug/Kg	97
28) cis-1,2-Dichloroethene	5.753	96	44587	4.82	ug/Kg	82
29) 2,2-Dichloropropane	5.869	77	28159	3.85	ug/Kg	92
30) Bromochloromethane	5.972	128	16619	4.51	ug/Kg#	80
31) Cyclohexane	6.003	84	72083	4.69	ug/Kg	92
32) Chloroform	6.045	83	74931	4.91	ug/Kg	93
33) Ethyl acetate	6.167	43	134321	23.54	ug/Kg	93
34) Tetrahydrofuran	6.234	42	12500	5.76	ug/Kg#	54
36) Carbon Tetrachloride	6.216	117	41627	4.02	ug/Kg	95

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28092.D
Acq On : 25 Apr 2016 9:09 am
Operator : ANGIED
Sample : IC1133-1 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 25 10:22:40 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:04:05 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.283	97	53090	4.29	ug/Kg	93
38) 2-Butanone	6.374	43	76647	25.19	ug/Kg	99
39) 1,1-Dichloropropene	6.422	75	57246	4.66	ug/Kg	99
40) Propionitrile	6.678	54	43436	44.04	ug/Kg	90
41) Methacrylonitrile	6.708	41	172604	48.27	ug/Kg	94
42) Benzene	6.684	78	170236	4.97	ug/Kg	95
43) TAME	6.812	73	107696	4.86	ug/Kg	95
45) 1,2-Dichloroethane	6.897	62	45581	4.71	ug/Kg	97
46) Trichloroethene	7.317	95	47206	5.49	ug/Kg	91
47) Methylcyclohexane	7.317	83	78934	4.87	ug/Kg	94
48) Dibromomethane	7.749	93	20084	4.91	ug/Kg	92
49) 1,2-Dichloropropane	7.846	63	41661	4.97	ug/Kg	94
50) Bromodichloromethane	7.913	83	47207	4.87	ug/Kg	92
51) Methyl methacrylate	8.059	41	25329	5.34	ug/Kg	91
52) 2-Chloroethyl vinyl ether	8.479	63	93386	24.73	ug/Kg	92
53) cis-1,3-Dichloropropene	8.552	75	59766	4.92	ug/Kg	97
56) Toluene	8.801	91	177013	4.89	ug/Kg	95
57) 2-Nitropropane	9.014	41	33735	22.50	ug/Kg	92
58) 4-Methyl-2-pentanone	9.160	43	146974	24.40	ug/Kg	95
59) trans-1,3-Dichloropropene	9.209	75	45389	4.43	ug/Kg	96
60) Tetrachloroethene	9.203	166	35127	4.61	ug/Kg	94
61) Ethyl methacrylate	9.355	69	41779	5.37	ug/Kg	84
62) 1,1,2-Trichloroethane	9.373	83	26735	5.02	ug/Kg	94
63) Dibromochloromethane	9.562	129	29940	4.68	ug/Kg	88
64) 1,3-Dichloropropane	9.647	76	54996	4.75	ug/Kg	94
65) 1,2-Dibromoethane	9.811	107	27558	4.67	ug/Kg	100
66) 2-hexanone	9.993	43	109333	28.65	ug/Kg	90
67) 1-Chlorohexane	10.292	91	53124	5.02	ug/Kg	93
68) Ethylbenzene	10.346	91	179402	4.91	ug/Kg	97
69) Chlorobenzene	10.328	112	99311	4.67	ug/Kg	93
70) 1,1,1,2-Tetrachloroethane	10.383	131	30949	4.41	ug/Kg	93
71) m,p-Xylene	10.486	91	266610	9.73	ug/Kg	99
72) o-Xylene	10.924	91	138367	4.94	ug/Kg	98
73) Styrene	10.979	104	90105	4.59	ug/Kg	95
74) Bromoform	11.015	173	13694	4.41	ug/Kg	92
75) Isopropylbenzene	11.234	105	165857	4.84	ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.581	53	10687	4.55	ug/Kg	92
79) n-Propylbenzene	11.654	91	195566	4.78	ug/Kg	99
80) Bromobenzene	11.654	156	35484	4.41	ug/Kg	83
81) 1,1,2,2-Tetrachloroethane	11.721	83	39832	4.86	ug/Kg	99
82) 1,3,5-Trimethylbenzene	11.849	105	142001	4.44	ug/Kg	93
83) 2-Chlorotoluene	11.831	91	133468	4.54	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.904	53	10890	5.32	ug/Kg#	70
85) 1,2,3-Trichloropropane	11.867	110	11675	5.22	ug/Kg	81
86) Cyclohexanone	11.922	55	10685	26.29	ug/Kg	83
87) 4-Chlorotoluene	12.001	91	117529	4.54	ug/Kg	98
88) tert-Butylbenzene	12.177	91	84900	4.11	ug/Kg	94
89) 1,2,4-Trimethylbenzene	12.250	105	133327	4.45	ug/Kg	99
90) Pentachloroethane	12.220	167	18870	3.89	ug/Kg#	53
91) sec-Butylbenzene	12.360	105	182284	4.43	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28092.D
Acq On : 25 Apr 2016 9:09 am
Operator : ANGIED
Sample : IC1133-1 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 25 10:22:40 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:04:05 2016
Response via : Initial Calibration

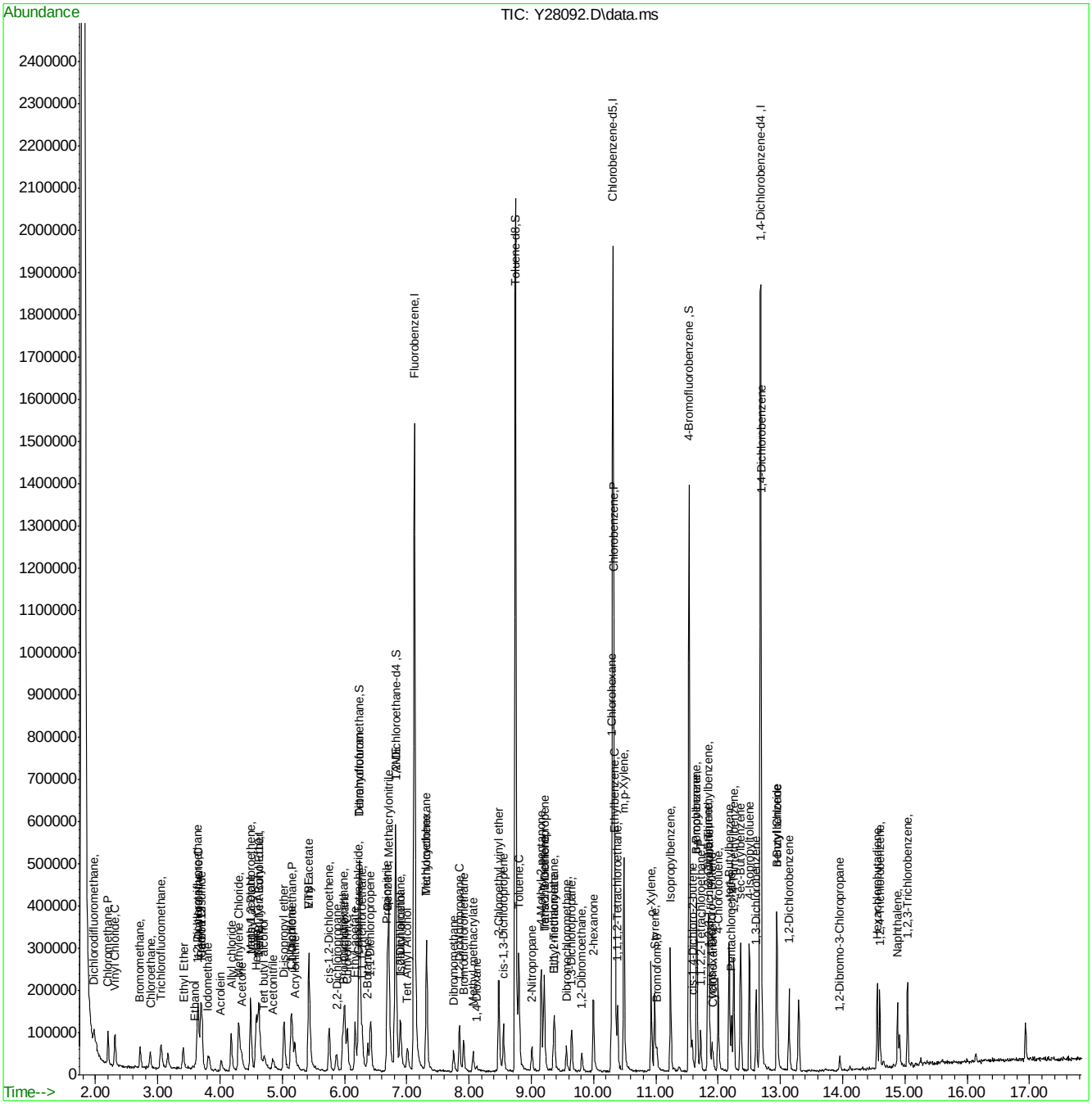
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.500	119	144743	4.50	ug/Kg	99
93) 1,3-Dichlorobenzene	12.615	146	72497	4.99	ug/Kg	99
94) 1,4-Dichlorobenzene	12.694	146	75062	5.13	ug/Kg	91
95) n-Butylbenzene	12.944	92	83880	4.76	ug/Kg	95
96) Benzyl Chloride	12.944	126	15373	5.77	ug/Kg#	46
97) 1,2-Dichlorobenzene	13.139	146	66022	4.71	ug/Kg	95
98) 1,2-Dibromo-3-Chloropr...	13.948	75	7661	4.79	ug/Kg	75
99) Hexachlorobutadiene	14.556	225	23012	4.68	ug/Kg	87
100) 1,2,4-Trichlorobenzene	14.599	180	46232	5.04	ug/Kg	98
101) Naphthalene	14.885	128	102610	4.40	ug/Kg	90
102) 1,2,3-Trichlorobenzene	15.043	180	43282	4.67	ug/Kg	95
104) Ethanol	3.588	45	7515m	86.85	ug/Kg	
105) Acrolein	4.019	56	28938	20.95	ug/Kg	64
106) Tert butyl alcohol	4.713	59	37088	45.47	ug/Kg	89
107) Isobutyl alcohol	6.897	42	17948	88.86	ug/Kg	89
108) Tert Amyl Alcohol	7.006	59	33750	51.69	ug/Kg	81
109) 1,4-Dioxane	8.126	88	7154	88.95	ug/Kg	82

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28092.D
Acq On : 25 Apr 2016 9:09 am
Operator : ANGIED
Sample : IC1133-1 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 25 10:22:40 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:04:05 2016
Response via : Initial Calibration



042516APP9-Y.m Tue Apr 26 09:13:20 2016 Page: 4

SGS ACCUTEST FA33606

Manual Integration Approval Summary

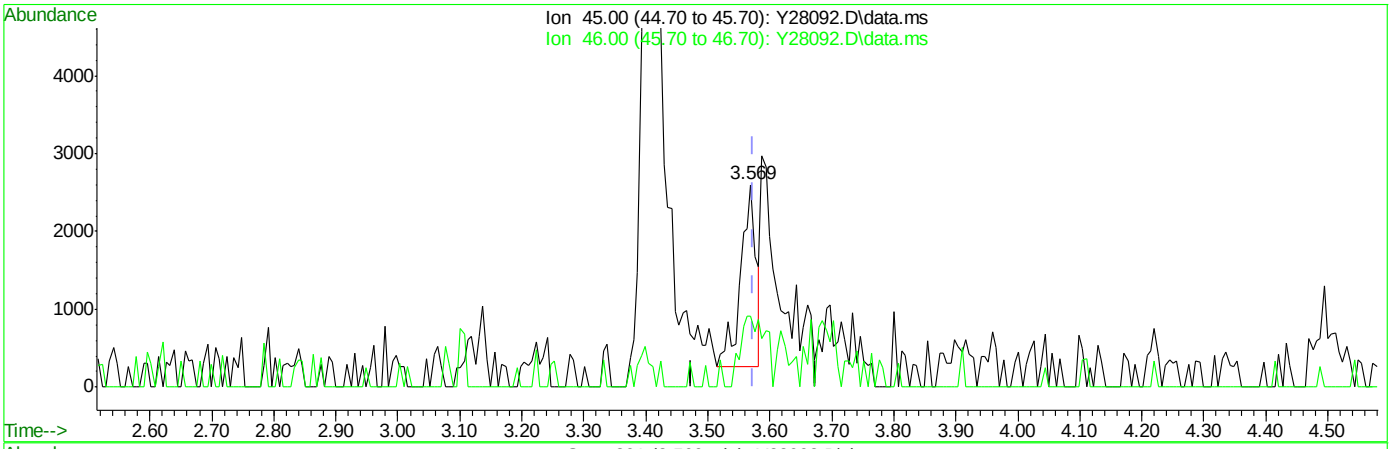
Sample Number:	VY1133-IC1133	**Method:**	SW846 8260B
Lab FileID:	Y28092.D	**Analyst approved:**	04/26/16 09:25 Angie Diaz
Injection Time:	04/25/16 09:09	**Supervisor approved:**	04/26/16 10:43 Juan Garcia

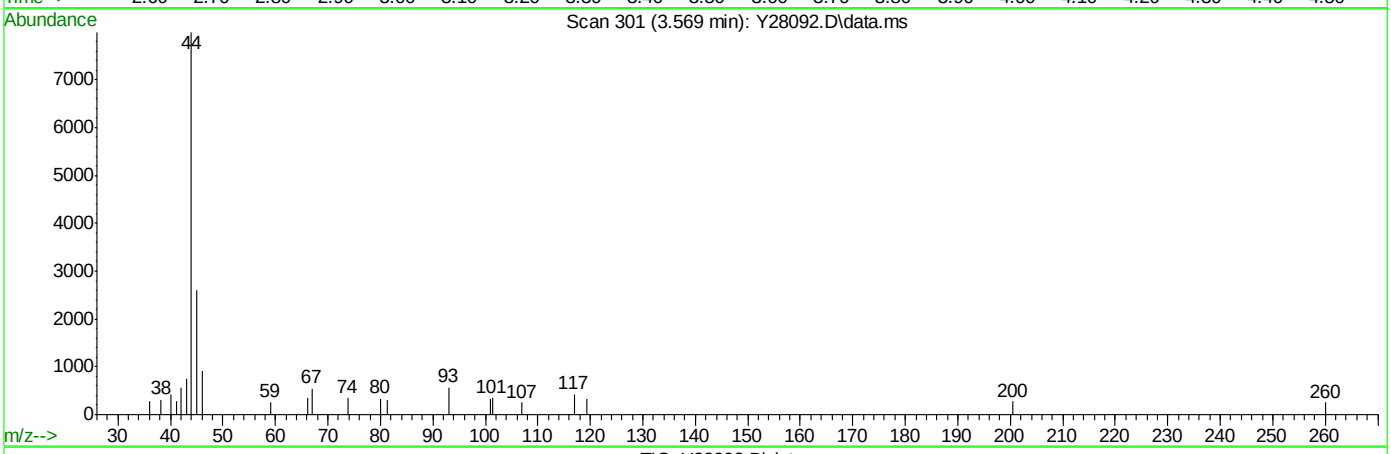
Parameter	CAS	Sig#	R.T. (min.)	Reason
Ethyl Alcohol	64-17-5		3.59	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28092.D
Acq On : 25 Apr 2016 9:09 am
Operator : ANGIED
Sample : IC1133-1 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 25 09:32:00 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:04:05 2016
Response via : Initial Calibration





TIC: Y28092.D\data.ms

(104) Ethanol

3.569min (-0.005) 46.40ug/Kg

response 4015

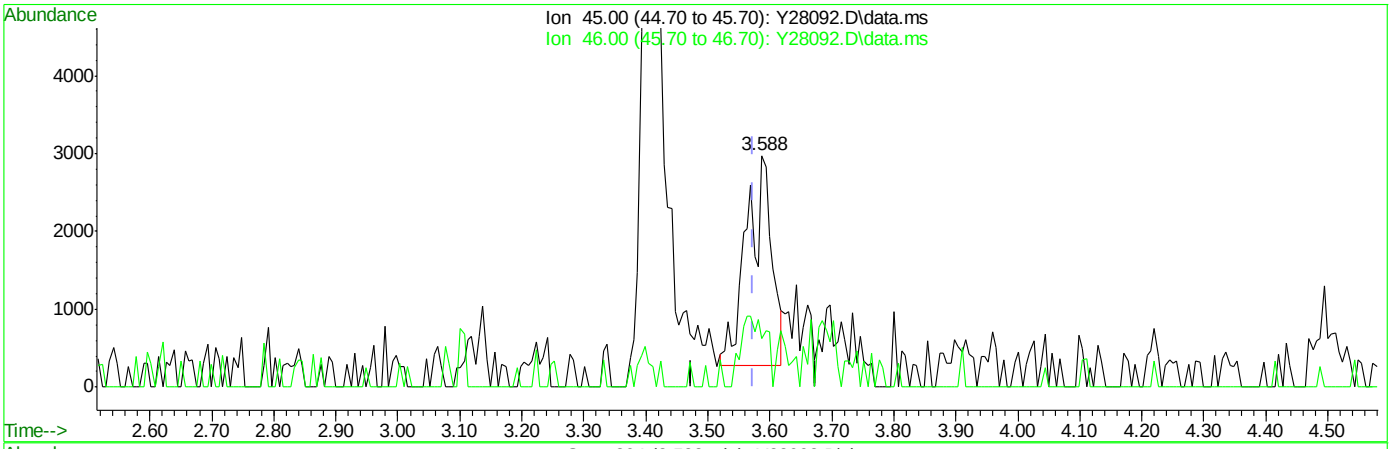
Ion	Exp%	Act%
45.00	100	100
46.00	41.20	38.86
0.00	0.00	0.00
0.00	0.00	0.00

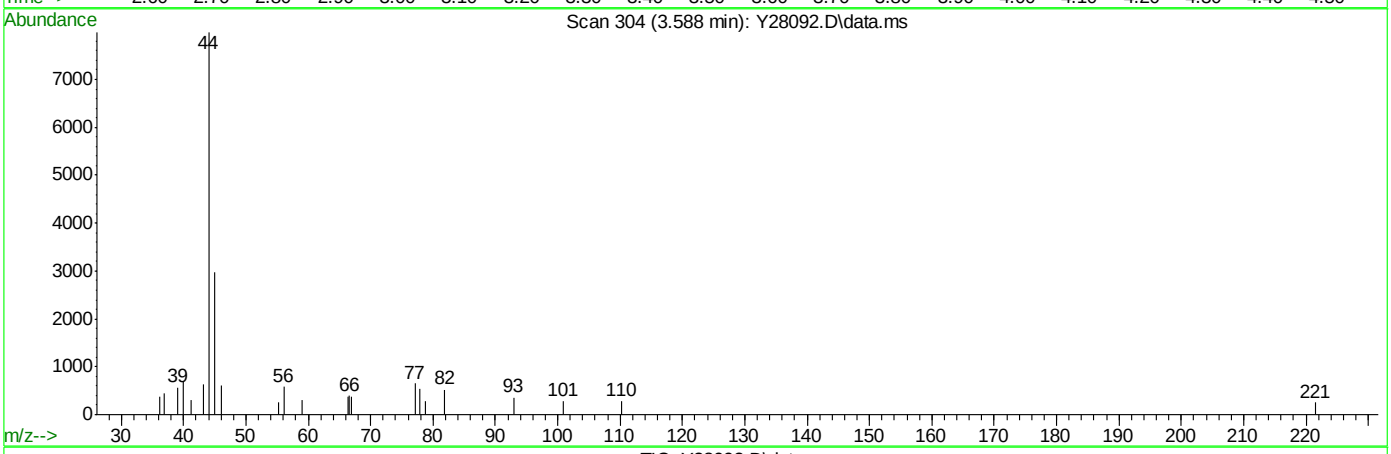
SGS ACCUTEST FA33606

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28092.D
Acq On : 25 Apr 2016 9:09 am
Operator : ANGIED
Sample : IC1133-1 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 25 09:32:00 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:04:05 2016
Response via : Initial Calibration





TIC: Y28092.D\data.ms

(104) Ethanol

3.588min (+0.014) 86.85ug/Kg m

response 7515

Ion	Exp%	Act%
45.00	100	100
46.00	41.20	20.77
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28093.D
Acq On : 25 Apr 2016 9:35 am
Operator : ANGIED
Sample : IC1133-2 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 25 09:54:10 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:32:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.124	96	1249684	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.312	117	844727	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.678	152	395907	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.624	65	130024	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	293643	52.90	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.80%			
44) 1,2-Dichloroethane-d4	6.820	65	320666	49.54	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 99.08%			
55) Toluene-d8	8.742	98	1174063	49.20	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.40%			
77) 4-Bromofluorobenzene	11.535	174	265241	46.38	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 92.76%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.984	85	108633	10.30	ug/Kg	93
3) Chloromethane	2.203	50	125655	10.03	ug/Kg	97
4) Vinyl Chloride	2.312	62	122668	9.76	ug/Kg	100
5) Bromomethane	2.720	94	65603	11.14	ug/Kg	96
6) Chloroethane	2.878	64	66803	10.00	ug/Kg	96
7) Trichlorofluoromethane	3.054	101	117307	10.20	ug/Kg	97
8) Ethyl Ether	3.407	59	64524	12.16	ug/Kg	93
9) 1,2-Dichlorotrifluoroe...	3.638	67	103870	9.50	ug/Kg	96
10) 1,1-Dichloroethene	3.644	61	134503	10.24	ug/Kg	98
11) Freon 113	3.699	101	83882	9.95	ug/Kg	95
12) Carbon Disulfide	3.687	76	287537	10.21	ug/Kg	84
13) Iodomethane	3.815	142	123485	10.66	ug/Kg	94
14) Allyl chloride	4.180	41	121996	10.35	ug/Kg	94
15) Methylene Chloride	4.295	49	139827	8.52	ug/Kg	93
16) Acetone	4.344	43	107824	56.01	ug/Kg	96
17) Methyl acetate	4.490	43	211113	53.59	ug/Kg	91
18) trans-1,2-Dichloroethene	4.490	61	105771	10.46	ug/Kg	95
19) Hexane	4.587	56	70303	9.26	ug/Kg	79
20) Methyl Tert Butyl Ether	4.612	73	193793	10.78	ug/Kg#	27
21) Acetonitrile	4.849	41	67040	96.38	ug/Kg	96
22) Di-isopropyl ether	5.025	45	235170	10.72	ug/Kg	95
23) Chloroprene	5.141	53	123830	9.92	ug/Kg	92
24) 1,1-Dichloroethane	5.159	63	141677	9.98	ug/Kg	96
25) Acrylonitrile	5.196	53	110216	53.65	ug/Kg	95
26) ETBE	5.427	59	243398	11.85	ug/Kg	95
27) Vinyl acetate	5.421	43	607413	52.86	ug/Kg	95
28) cis-1,2-Dichloroethene	5.749	96	92795	10.87	ug/Kg	95
29) 2,2-Dichloropropane	5.871	77	63223	11.72	ug/Kg	91
30) Bromochloromethane	5.968	128	37482	11.78	ug/Kg	88
31) Cyclohexane	5.999	84	133585	9.68	ug/Kg	95
32) Chloroform	6.041	83	153695	10.71	ug/Kg	97
33) Ethyl acetate	6.163	43	258334	50.21	ug/Kg	97
34) Tetrahydrofuran	6.236	42	17319	7.23	ug/Kg	80
36) Carbon Tetrachloride	6.218	117	86543	10.86	ug/Kg	93

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28093.D
Acq On : 25 Apr 2016 9:35 am
Operator : ANGIED
Sample : IC1133-2 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 25 09:54:10 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:32:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.285	97	111978	11.01	ug/Kg	98
38) 2-Butanone	6.370	43	139385	47.48	ug/Kg	96
39) 1,1-Dichloropropene	6.418	75	109500	9.99	ug/Kg	96
40) Propionitrile	6.680	54	87470	105.15	ug/Kg	82
41) Methacrylonitrile	6.704	41	322917	97.69	ug/Kg	95
42) Benzene	6.686	78	346034	10.61	ug/Kg	92
43) TAME	6.808	73	209206	10.14	ug/Kg	95
45) 1,2-Dichloroethane	6.893	62	96122	11.01	ug/Kg	96
46) Trichloroethene	7.313	95	84835	9.38	ug/Kg	94
47) Methylcyclohexane	7.319	83	140067	9.27	ug/Kg	97
48) Dibromomethane	7.751	93	42529	11.06	ug/Kg	92
49) 1,2-Dichloropropane	7.848	63	80976	10.15	ug/Kg	95
50) Bromodichloromethane	7.909	83	89697	9.92	ug/Kg	98
51) Methyl methacrylate	8.061	41	36909	7.61	ug/Kg	96
52) 2-Chloroethyl vinyl ether	8.475	63	157992	44.17	ug/Kg	94
53) cis-1,3-Dichloropropene	8.554	75	112692	9.85	ug/Kg	99
56) Toluene	8.797	91	335244	9.92	ug/Kg	97
57) 2-Nitropropane	9.004	41	54639	42.44	ug/Kg	92
58) 4-Methyl-2-pentanone	9.156	43	249513	44.48	ug/Kg	96
59) trans-1,3-Dichloropropene	9.205	75	82652	9.54	ug/Kg	96
60) Tetrachloroethene	9.211	166	70042	10.45	ug/Kg	95
61) Ethyl methacrylate	9.351	69	62761	7.87	ug/Kg	91
62) 1,1,2-Trichloroethane	9.369	83	51090	10.01	ug/Kg	97
63) Dibromochloromethane	9.557	129	56024	9.81	ug/Kg	94
64) 1,3-Dichloropropane	9.649	76	100988	9.62	ug/Kg	96
65) 1,2-Dibromoethane	9.807	107	55632	10.58	ug/Kg	91
66) 2-hexanone	9.989	43	153084	36.69	ug/Kg	95
67) 1-Chlorohexane	10.287	91	81040	7.99	ug/Kg	96
68) Ethylbenzene	10.342	91	344947	10.08	ug/Kg	99
69) Chlorobenzene	10.330	112	210007	11.08	ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.385	131	65849	11.15	ug/Kg	94
71) m,p-Xylene	10.488	91	499389	19.63	ug/Kg	99
72) o-Xylene	10.920	91	243058	9.21	ug/Kg	99
73) Styrene	10.981	104	167328	9.73	ug/Kg	96
74) Bromoform	11.018	173	30005	11.48	ug/Kg	94
75) Isopropylbenzene	11.236	105	297686	9.41	ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.583	53	18919	9.01	ug/Kg	89
79) n-Propylbenzene	11.656	91	362763	9.44	ug/Kg	99
80) Bromobenzene	11.650	156	75560	10.84	ug/Kg	93
81) 1,1,2,2-Tetrachloroethane	11.717	83	76835	9.82	ug/Kg	91
82) 1,3,5-Trimethylbenzene	11.845	105	268449	9.63	ug/Kg	98
83) 2-Chlorotoluene	11.833	91	257367	9.82	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.894	53	19843	9.28	ug/Kg#	74
85) 1,2,3-Trichloropropane	11.863	110	20628	9.00	ug/Kg	90
86) Cyclohexanone	11.918	55	16337	38.92	ug/Kg	97
87) 4-Chlorotoluene	11.997	91	225582	9.77	ug/Kg	98
88) tert-Butylbenzene	12.179	91	161364	9.68	ug/Kg	98
89) 1,2,4-Trimethylbenzene	12.252	105	265253	10.13	ug/Kg	99
90) Pentachloroethane	12.216	167	38571	10.41	ug/Kg	94
91) sec-Butylbenzene	12.362	105	351015	9.80	ug/Kg	97

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28093.D
Acq On : 25 Apr 2016 9:35 am
Operator : ANGIED
Sample : IC1133-2 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 25 09:54:10 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:32:56 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.502	119	272245	9.58	ug/Kg	100
93) 1,3-Dichlorobenzene	12.611	146	140693	9.88	ug/Kg	97
94) 1,4-Dichlorobenzene	12.697	146	148520	10.07	ug/Kg	97
95) n-Butylbenzene	12.940	92	148702	9.03	ug/Kg	98
96) Benzyl Chloride	12.940	126	26846	8.89	ug/Kg#	85
97) 1,2-Dichlorobenzene	13.135	146	137237	10.58	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.950	75	14445	9.60	ug/Kg	97
99) Hexachlorobutadiene	14.552	225	44528	9.85	ug/Kg	89
100) 1,2,4-Trichlorobenzene	14.595	180	84896	9.35	ug/Kg	96
101) Naphthalene	14.881	128	195403	9.70	ug/Kg	100
102) 1,2,3-Trichlorobenzene	15.039	180	84980	10.00	ug/Kg	95
104) Ethanol	3.565	45	15931	428.94	ug/Kg	81
105) Acrolein	4.009	56	57298	53.51	ug/Kg	87
106) Tert butyl alcohol	4.709	59	75171	109.55	ug/Kg	96
107) Isobutyl alcohol	6.893	42	30965	186.50	ug/Kg	90
108) Tert Amyl Alcohol	6.996	59	56624	90.68	ug/Kg	92
109) 1,4-Dioxane	8.122	88	13030	196.89	ug/Kg	79

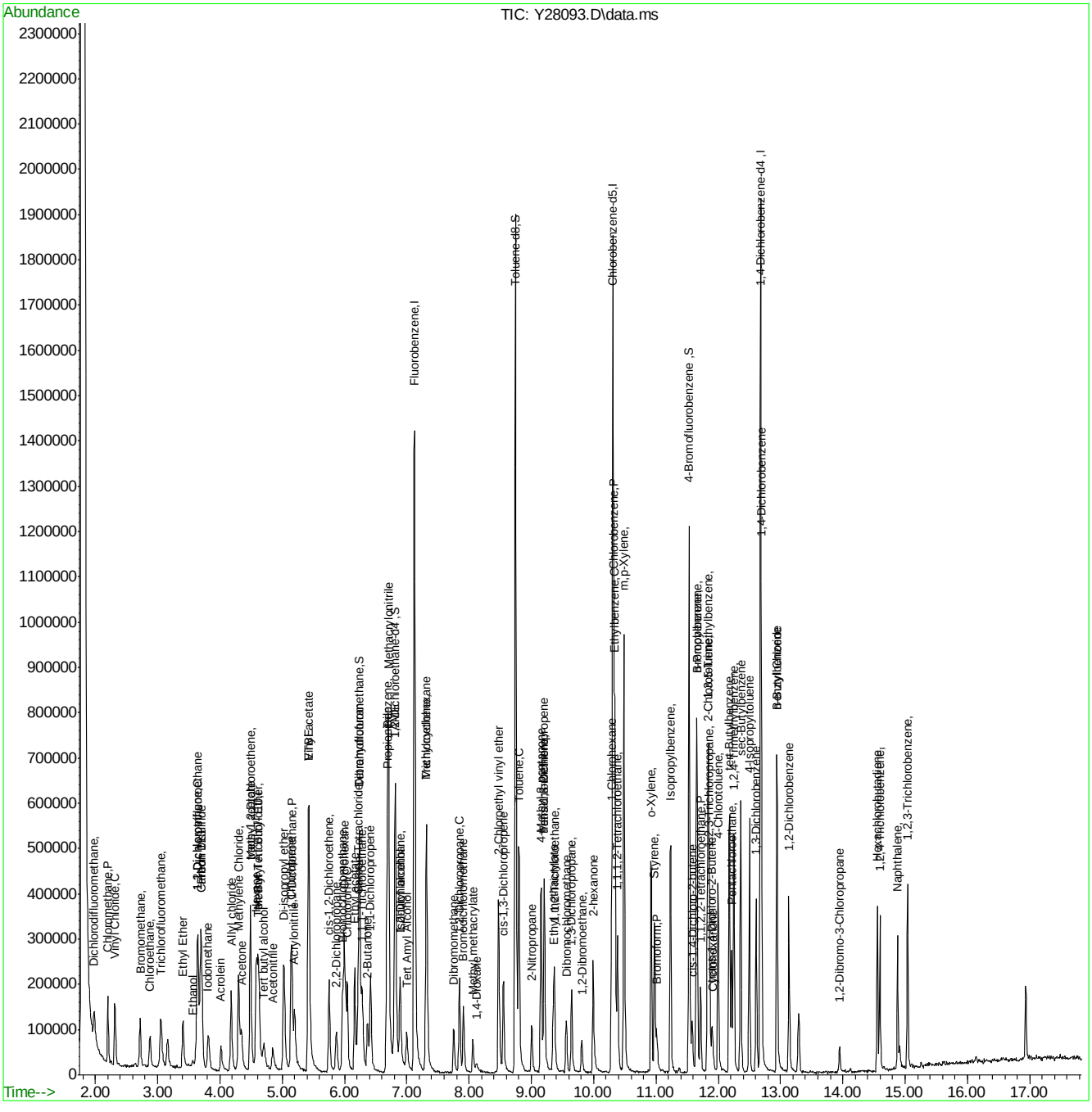
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28093.D
Acq On : 25 Apr 2016 9:35 am
Operator : ANGIED
Sample : IC1133-2 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 25 09:54:10 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:32:56 2016
Response via : Initial Calibration



SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28094.D
Acq On : 25 Apr 2016 10:01 am
Operator : ANGIED
Sample : IC1133-3 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 25 10:19:56 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:54:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.120	96	1215789	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.314	117	820827	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.681	152	368003	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.632	65	123881	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.238	113	272452	49.03	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.06%			
44) 1,2-Dichloroethane-d4	6.822	65	299874	47.84	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 95.68%			
55) Toluene-d8	8.745	98	1157652	50.33	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 100.66%			
77) 4-Bromofluorobenzene	11.537	174	261153	50.98	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 101.96%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.980	85	214797	20.63	ug/Kg	92
3) Chloromethane	2.199	50	247566	20.29	ug/Kg	96
4) Vinyl Chloride	2.314	62	248112	20.54	ug/Kg	97
5) Bromomethane	2.716	94	118925	19.64	ug/Kg	97
6) Chloroethane	2.880	64	127440	19.61	ug/Kg	96
7) Trichlorofluoromethane	3.051	101	224330	19.85	ug/Kg	100
8) Ethyl Ether	3.403	59	119798	20.94	ug/Kg	96
9) 1,2-Dichlorotrifluoroe...	3.641	67	192110	18.52	ug/Kg	94
10) 1,1-Dichloroethene	3.647	61	271200	20.97	ug/Kg	94
11) Freon 113	3.708	101	164397	20.10	ug/Kg	99
12) Carbon Disulfide	3.689	76	554936	20.05	ug/Kg	96
13) Iodomethane	3.811	142	239241	20.55	ug/Kg	97
14) Allyl chloride	4.176	41	229798	19.69	ug/Kg	93
15) Methylene Chloride	4.298	49	242122	16.38	ug/Kg	92
16) Acetone	4.352	43	183568	92.46	ug/Kg	94
17) Methyl acetate	4.486	43	398534	100.38	ug/Kg	94
18) trans-1,2-Dichloroethene	4.486	61	208608	20.73	ug/Kg	97
19) Hexane	4.584	56	124333	17.48	ug/Kg	81
20) Methyl Tert Butyl Ether	4.614	73	345039	18.98	ug/Kg#	25
21) Acetonitrile	4.851	41	129805	195.35	ug/Kg	98
22) Di-isopropyl ether	5.028	45	420733	19.03	ug/Kg	90
23) Chloroprene	5.143	53	251069	20.76	ug/Kg	97
24) 1,1-Dichloroethane	5.162	63	282414	20.47	ug/Kg	95
25) Acrylonitrile	5.198	53	214914	103.74	ug/Kg	94
26) ETBE	5.435	59	406365	18.61	ug/Kg	94
27) Vinyl acetate	5.423	43	1110507	96.57	ug/Kg	95
28) cis-1,2-Dichloroethene	5.752	96	174847	20.17	ug/Kg	93
29) 2,2-Dichloropropane	5.873	77	117056	20.54	ug/Kg	88
30) Bromochloromethane	5.971	128	71399	21.18	ug/Kg#	87
31) Cyclohexane	6.001	84	274527	20.78	ug/Kg	94
32) Chloroform	6.044	83	285536	19.75	ug/Kg	99
33) Ethyl acetate	6.165	43	519060	103.48	ug/Kg	95
34) Tetrahydrofuran	6.244	42	34341	17.11	ug/Kg	83
36) Carbon Tetrachloride	6.214	117	165945	20.52	ug/Kg	98

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28094.D
Acq On : 25 Apr 2016 10:01 am
Operator : ANGIED
Sample : IC1133-3 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 25 10:19:56 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:54:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.287	97	211766	20.38	ug/Kg	94
38) 2-Butanone	6.372	43	281321	101.05	ug/Kg	99
39) 1,1-Dichloropropene	6.421	75	210685	19.77	ug/Kg	93
40) Propionitrile	6.682	54	185885	223.92	ug/Kg	89
41) Methacrylonitrile	6.707	41	652521	205.28	ug/Kg	96
42) Benzene	6.682	78	635035	19.43	ug/Kg	96
43) TAME	6.810	73	374524	18.53	ug/Kg	98
45) 1,2-Dichloroethane	6.895	62	175971	19.72	ug/Kg	97
46) Trichloroethene	7.315	95	161806	18.98	ug/Kg	97
47) Methylcyclohexane	7.315	83	279387	19.72	ug/Kg	97
48) Dibromomethane	7.747	93	76817	19.50	ug/Kg	95
49) 1,2-Dichloropropane	7.844	63	158219	20.23	ug/Kg	96
50) Bromodichloromethane	7.911	83	176302	20.12	ug/Kg	94
51) Methyl methacrylate	8.057	41	87682	21.10	ug/Kg	91
52) 2-Chloroethyl vinyl ether	8.471	63	366639	111.88	ug/Kg	96
53) cis-1,3-Dichloropropene	8.550	75	231769	20.98	ug/Kg	99
56) Toluene	8.799	91	649988	19.88	ug/Kg	96
57) 2-Nitropropane	9.006	41	127495	110.25	ug/Kg	94
58) 4-Methyl-2-pentanone	9.158	43	550761	106.95	ug/Kg	98
59) trans-1,3-Dichloropropene	9.207	75	174597	21.23	ug/Kg	95
60) Tetrachloroethene	9.207	166	134682	20.22	ug/Kg	96
61) Ethyl methacrylate	9.353	69	147700	21.34	ug/Kg	92
62) 1,1,2-Trichloroethane	9.371	83	100969	20.35	ug/Kg	98
63) Dibromochloromethane	9.560	129	113549	20.65	ug/Kg	97
64) 1,3-Dichloropropane	9.645	76	207224	20.71	ug/Kg	97
65) 1,2-Dibromoethane	9.809	107	108927	20.72	ug/Kg	95
66) 2-hexanone	9.992	43	387976	110.38	ug/Kg	93
67) 1-Chlorohexane	10.290	91	187698	21.18	ug/Kg	88
68) Ethylbenzene	10.345	91	664316	19.89	ug/Kg	97
69) Chlorobenzene	10.332	112	385182	19.84	ug/Kg	98
70) 1,1,1,2-Tetrachloroethane	10.387	131	121165	19.97	ug/Kg	94
71) m,p-Xylene	10.485	91	991988	40.51	ug/Kg	99
72) o-Xylene	10.923	91	511179	20.75	ug/Kg	99
73) Styrene	10.977	104	365278	22.16	ug/Kg	98
74) Bromoform	11.014	173	54178	19.86	ug/Kg	89
75) Isopropylbenzene	11.233	105	616781	20.67	ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.580	53	43026	23.20	ug/Kg#	80
79) n-Propylbenzene	11.653	91	703778	20.28	ug/Kg	100
80) Bromobenzene	11.653	156	136613	20.24	ug/Kg	99
81) 1,1,2,2-Tetrachloroethane	11.720	83	152553	21.17	ug/Kg	99
82) 1,3,5-Trimethylbenzene	11.847	105	531122	20.88	ug/Kg	96
83) 2-Chlorotoluene	11.829	91	492580	20.40	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.896	53	39735	20.74	ug/Kg	88
85) 1,2,3-Trichloropropane	11.866	110	43122	21.30	ug/Kg	91
86) Cyclohexanone	11.914	55	35571	102.53	ug/Kg	95
87) 4-Chlorotoluene	11.993	91	420046	19.80	ug/Kg	100
88) tert-Butylbenzene	12.176	91	313931	20.59	ug/Kg	98
89) 1,2,4-Trimethylbenzene	12.249	105	500777	20.44	ug/Kg	97
90) Pentachloroethane	12.212	167	74354	21.15	ug/Kg	92
91) sec-Butylbenzene	12.358	105	680796	20.66	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28094.D
Acq On : 25 Apr 2016 10:01 am
Operator : ANGIED
Sample : IC1133-3 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 25 10:19:56 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:54:38 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.498	119	530876	20.52	ug/Kg	100
93) 1,3-Dichlorobenzene	12.608	146	257592	19.58	ug/Kg	98
94) 1,4-Dichlorobenzene	12.693	146	252121	18.33	ug/Kg	95
95) n-Butylbenzene	12.942	92	282590	19.40	ug/Kg	96
96) Benzyl Chloride	12.936	126	52518	19.81	ug/Kg#	50
97) 1,2-Dichlorobenzene	13.137	146	246461	19.87	ug/Kg	97
98) 1,2-Dibromo-3-Chloropr...	13.946	75	26408	19.27	ug/Kg	84
99) Hexachlorobutadiene	14.554	225	74936	17.97	ug/Kg	98
100) 1,2,4-Trichlorobenzene	14.591	180	137254	16.81	ug/Kg	98
101) Naphthalene	14.877	128	351329	19.04	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.041	180	145339	18.40	ug/Kg	96
104) Ethanol	3.568	45	24870	446.99	ug/Kg	90
105) Acrolein	4.018	56	110825	104.95	ug/Kg	98
106) Tert butyl alcohol	4.711	59	137421	200.62	ug/Kg	91
107) Isobutyl alcohol	6.901	42	73790	482.77	ug/Kg	96
108) Tert Amyl Alcohol	7.011	59	126365	222.79	ug/Kg	97
109) 1,4-Dioxane	8.118	88	27187	434.56	ug/Kg	98

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

7.6.14

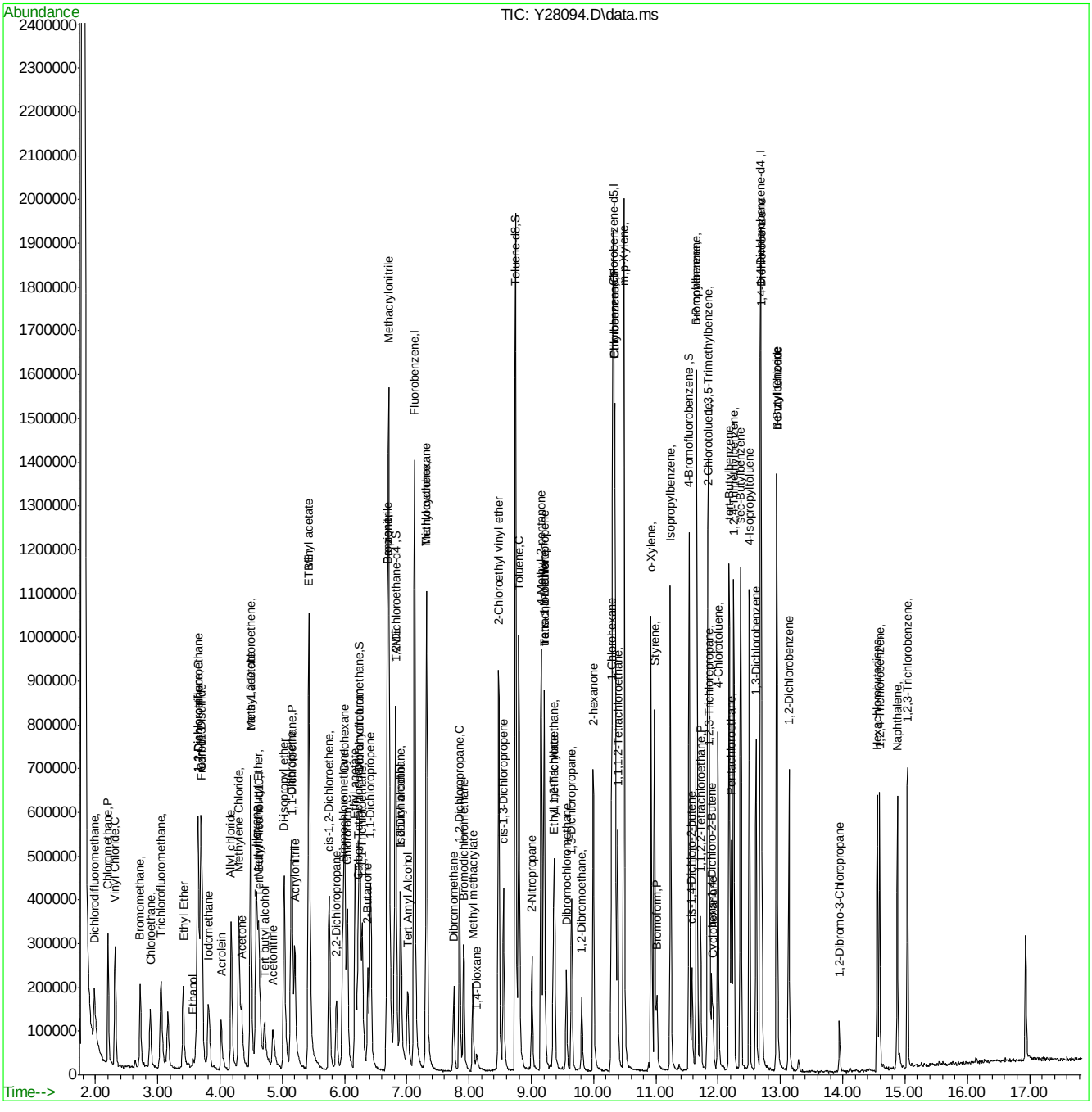
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28094.D
Acq On : 25 Apr 2016 10:01 am
Operator : ANGIED
Sample : IC1133-3 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 25 10:19:56 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 09:54:38 2016
Response via : Initial Calibration



SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28095.D
Acq On : 25 Apr 2016 10:27 am
Operator : ANGIED
Sample : ICC1133-4 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 25 10:54:45 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 10:23:00 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.122	96	1290258	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	871042	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.676	152	421584	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.628	65	132224	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	298161	50.89	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.78%			
44) 1,2-Dichloroethane-d4	6.818	65	302684	46.17	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 92.34%			
55) Toluene-d8	8.746	98	1218742	49.82	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.64%			
77) 4-Bromofluorobenzene	11.532	174	277388	46.96	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 93.92%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.981	85	579120	51.86	ug/Kg	100
3) Chloromethane	2.200	50	645827	49.63	ug/Kg	98
4) Vinyl Chloride	2.316	62	646206	49.96	ug/Kg	100
5) Bromomethane	2.717	94	302023	47.29	ug/Kg	96
6) Chloroethane	2.875	64	323060	47.15	ug/Kg	95
7) Trichlorofluoromethane	3.052	101	620810	51.89	ug/Kg	95
8) Ethyl Ether	3.405	59	302703	49.10	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.636	67	523940	48.80	ug/Kg	98
10) 1,1-Dichloroethene	3.648	61	717393	51.44	ug/Kg	96
11) Freon 113	3.703	101	462106	53.14	ug/Kg	99
12) Carbon Disulfide	3.691	76	1481340	50.38	ug/Kg	96
13) Iodomethane	3.806	142	627352	50.31	ug/Kg	97
14) Allyl chloride	4.177	41	600277	48.72	ug/Kg	91
15) Methylene Chloride	4.299	49	547199	37.12	ug/Kg	89
16) Acetone	4.342	43	466701	227.21	ug/Kg	97
17) Methyl acetate	4.488	43	1018283	241.37	ug/Kg	94
18) trans-1,2-Dichloroethene	4.488	61	544311	50.35	ug/Kg	97
19) Hexane	4.579	56	364770	50.45	ug/Kg	89
20) Methyl Tert Butyl Ether	4.609	73	942213	49.69	ug/Kg#	28
21) Acetonitrile	4.846	41	351827	502.82	ug/Kg	98
22) Di-isopropyl ether	5.029	45	1134305	49.13	ug/Kg	91
23) Chloroprene	5.139	53	688064	52.93	ug/Kg	98
24) 1,1-Dichloroethane	5.157	63	792668	53.72	ug/Kg	96
25) Acrylonitrile	5.193	53	612586	275.21	ug/Kg	97
26) ETBE	5.424	59	1155138	51.03	ug/Kg	97
27) Vinyl acetate	5.418	43	2901265	240.48	ug/Kg	94
28) cis-1,2-Dichloroethene	5.753	96	468314	50.77	ug/Kg	96
29) 2,2-Dichloropropane	5.869	77	288454	47.27	ug/Kg	98
30) Bromochloromethane	5.966	128	194562	53.33	ug/Kg#	80
31) Cyclohexane	6.002	84	776181	54.65	ug/Kg	93
32) Chloroform	6.045	83	767367	50.23	ug/Kg	98
33) Ethyl acetate	6.161	43	1278379	237.40	ug/Kg	94
34) Tetrahydrofuran	6.234	42	87931	43.37	ug/Kg	93
36) Carbon Tetrachloride	6.215	117	454018	52.44	ug/Kg	99

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28095.D
Acq On : 25 Apr 2016 10:27 am
Operator : ANGIED
Sample : ICC1133-4 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 25 10:54:45 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 10:23:00 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.282	97	562065	50.64	ug/Kg	96
38) 2-Butanone	6.367	43	701128	236.47	ug/Kg	94
39) 1,1-Dichloropropene	6.416	75	595060	52.81	ug/Kg	98
40) Propionitrile	6.672	54	465264	507.88	ug/Kg	86
41) Methacrylonitrile	6.702	41	1669770	490.66	ug/Kg	92
42) Benzene	6.684	78	1714983	49.91	ug/Kg	98
43) TAME	6.805	73	1059238	50.63	ug/Kg	96
45) 1,2-Dichloroethane	6.891	62	447157	47.44	ug/Kg	96
46) Trichloroethene	7.310	95	439510	49.42	ug/Kg	99
47) Methylcyclohexane	7.316	83	817654	54.64	ug/Kg	97
48) Dibromomethane	7.748	93	201665	48.64	ug/Kg	98
49) 1,2-Dichloropropane	7.846	63	399429	47.94	ug/Kg	96
50) Bromodichloromethane	7.907	83	461746	49.56	ug/Kg	94
51) Methyl methacrylate	8.053	41	206599	46.01	ug/Kg	90
52) 2-Chloroethyl vinyl ether	8.466	63	913975	252.80	ug/Kg	96
53) cis-1,3-Dichloropropene	8.551	75	603905	50.68	ug/Kg	96
56) Toluene	8.795	91	1682093	48.57	ug/Kg	94
57) 2-Nitropropane	9.002	41	310981	245.04	ug/Kg	88
58) 4-Methyl-2-pentanone	9.154	43	1308049	233.94	ug/Kg	94
59) trans-1,3-Dichloropropene	9.202	75	464069	52.11	ug/Kg	95
60) Tetrachloroethene	9.202	166	379901	53.56	ug/Kg	97
61) Ethyl methacrylate	9.342	69	375268	49.97	ug/Kg	97
62) 1,1,2-Trichloroethane	9.367	83	253061	47.79	ug/Kg	97
63) Dibromochloromethane	9.561	129	295081	50.03	ug/Kg	99
64) 1,3-Dichloropropane	9.640	76	521964	48.59	ug/Kg	97
65) 1,2-Dibromoethane	9.805	107	267200	47.32	ug/Kg	97
66) 2-hexanone	9.987	43	895195	231.98	ug/Kg	92
67) 1-Chlorohexane	10.285	91	536048	55.90	ug/Kg	93
68) Ethylbenzene	10.340	91	1778991	50.29	ug/Kg	94
69) Chlorobenzene	10.328	112	1020892	49.69	ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.382	131	330164	51.30	ug/Kg	97
71) m,p-Xylene	10.486	91	2607434	99.91	ug/Kg	93
72) o-Xylene	10.918	91	1356838	51.26	ug/Kg	99
73) Styrene	10.973	104	1008607	55.66	ug/Kg	99
74) Bromoform	11.015	173	151941	52.62	ug/Kg	98
75) Isopropylbenzene	11.234	105	1715719	53.58	ug/Kg	96
78) cis-1,4-Dichloro-2-butene	11.575	53	106408	47.54	ug/Kg	91
79) n-Propylbenzene	11.654	91	1987002	49.74	ug/Kg	94
80) Bromobenzene	11.648	156	380727	49.04	ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	11.715	83	389191	46.24	ug/Kg	99
82) 1,3,5-Trimethylbenzene	11.842	105	1548684	52.38	ug/Kg	95
83) 2-Chlorotoluene	11.824	91	1377474	49.47	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.891	53	95094	42.79	ug/Kg	93
85) 1,2,3-Trichloropropane	11.861	110	97690	41.23	ug/Kg	96
86) Cyclohexanone	11.909	55	86477	215.77	ug/Kg	93
87) 4-Chlorotoluene	11.995	91	1224107	50.54	ug/Kg	96
88) tert-Butylbenzene	12.177	91	911072	51.65	ug/Kg	97
89) 1,2,4-Trimethylbenzene	12.244	105	1487209	52.60	ug/Kg	98
90) Pentachloroethane	12.214	167	212552	51.79	ug/Kg	97
91) sec-Butylbenzene	12.360	105	1965133	51.49	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28095.D
Acq On : 25 Apr 2016 10:27 am
Operator : ANGIED
Sample : ICC1133-4 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 25 10:54:45 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 10:23:00 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.499	119	1610985	53.90	ug/Kg	96
93) 1,3-Dichlorobenzene	12.603	146	738757	49.36	ug/Kg	95
94) 1,4-Dichlorobenzene	12.694	146	754926	49.28	ug/Kg	99
95) n-Butylbenzene	12.938	92	929331	56.25	ug/Kg	88
96) Benzyl Chloride	12.938	126	140284	46.34	ug/Kg#	78
97) 1,2-Dichlorobenzene	13.132	146	702758	49.56	ug/Kg	99
98) 1,2-Dibromo-3-Chloropr...	13.947	75	73367	47.30	ug/Kg	96
99) Hexachlorobutadiene	14.556	225	250557	54.28	ug/Kg	99
100) 1,2,4-Trichlorobenzene	14.592	180	451070	50.93	ug/Kg	99
101) Naphthalene	14.872	128	1096476	52.72	ug/Kg	98
102) 1,2,3-Trichlorobenzene	15.036	180	435078	49.39	ug/Kg	96
104) Ethanol	3.575	45	71418	982.55	ug/Kg	97
105) Acrolein	4.013	56	301801	263.42	ug/Kg	98
106) Tert butyl alcohol	4.707	59	369500	504.88	ug/Kg	86
107) Isobutyl alcohol	6.891	42	171251	981.98	ug/Kg	95
108) Tert Amyl Alcohol	7.000	59	316190	503.17	ug/Kg	92
109) 1,4-Dioxane	8.113	88	72049	1048.77	ug/Kg	91

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

7.6.15

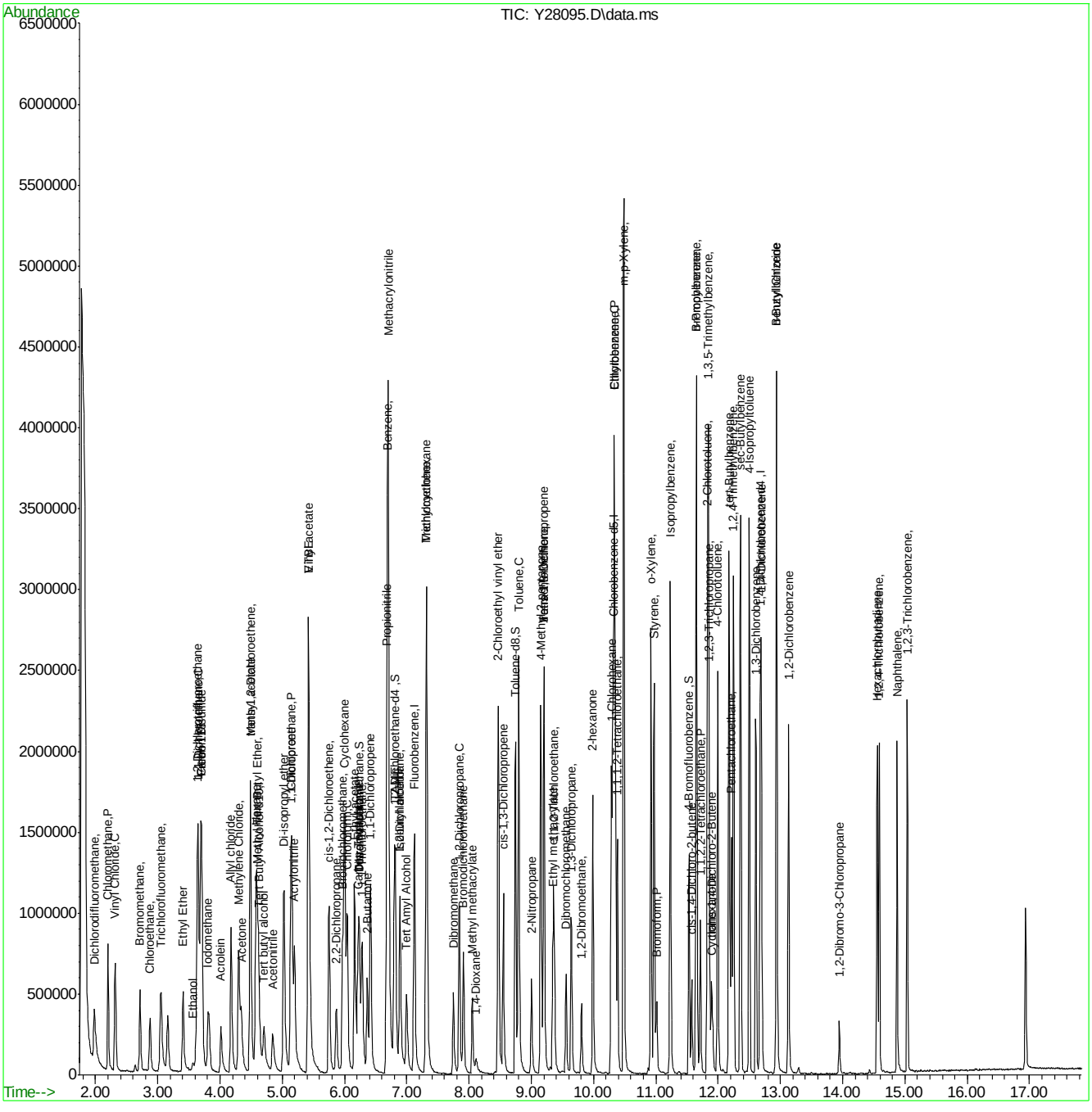
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28095.D
Acq On : 25 Apr 2016 10:27 am
Operator : ANGIED
Sample : ICC1133-4 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 25 10:54:45 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 10:23:00 2016
Response via : Initial Calibration



042516APP9-Y.m Tue Apr 26 09:13:30 2016 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28096.D
Acq On : 25 Apr 2016 10:54 am
Operator : ANGIED
Sample : IC1133-5 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 25 11:18:39 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 10:55:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.124	96	1322955	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.312	117	898018	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.678	152	425189	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.636	65	127032	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	6.242	113	302318	50.10	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.20%			
44) 1,2-Dichloroethane-d4	6.820	65	306301	46.45	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 92.90%			
55) Toluene-d8	8.742	98	1279711	50.79	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.58%			
77) 4-Bromofluorobenzene	11.534	174	292631	49.88	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 99.76%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.983	85	1042725	90.23	ug/Kg	99
3) Chloromethane	2.202	50	1205987	90.55	ug/Kg	97
4) Vinyl Chloride	2.318	62	1207072	91.03	ug/Kg	96
5) Bromomethane	2.713	94	562451	87.06	ug/Kg	92
6) Chloroethane	2.871	64	506689	73.16	ug/Kg	95
7) Trichlorofluoromethane	3.048	101	1116435	90.16	ug/Kg	99
8) Ethyl Ether	3.407	59	590845	93.89	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.638	67	979631	89.52	ug/Kg	97
10) 1,1-Dichloroethene	3.650	61	1362653	94.61	ug/Kg	93
11) Freon 113	3.705	101	806642	89.07	ug/Kg	99
12) Carbon Disulfide	3.687	76	2703543	89.51	ug/Kg	98
13) Iodomethane	3.814	142	1204726	94.08	ug/Kg	100
14) Allyl chloride	4.179	41	1145893	91.29	ug/Kg	91
15) Methylene Chloride	4.295	49	964521	68.20	ug/Kg	91
16) Acetone	4.344	43	869101	422.29	ug/Kg	99
17) Methyl acetate	4.490	43	1854283	432.41	ug/Kg	91
18) trans-1,2-Dichloroethene	4.484	61	1029954	92.76	ug/Kg	97
19) Hexane	4.581	56	596757	80.31	ug/Kg	88
20) Methyl Tert Butyl Ether	4.611	73	1761567	90.75	ug/Kg#	26
21) Acetonitrile	4.849	41	612176	852.08	ug/Kg	100
22) Di-isopropyl ether	5.031	45	2144365	90.98	ug/Kg	90
23) Chloroprene	5.141	53	1252911	92.64	ug/Kg	95
24) 1,1-Dichloroethane	5.159	63	1378823	89.48	ug/Kg	96
25) Acrylonitrile	5.195	53	1067943	456.42	ug/Kg	97
26) ETBE	5.433	59	2170597	93.05	ug/Kg	97
27) Vinyl acetate	5.420	43	5404927	441.14	ug/Kg	93
28) cis-1,2-Dichloroethene	5.749	96	916915	96.57	ug/Kg	97
29) 2,2-Dichloropropane	5.871	77	514727	83.40	ug/Kg	98
30) Bromochloromethane	5.968	128	392116	103.11	ug/Kg#	81
31) Cyclohexane	5.998	84	1456947	97.77	ug/Kg	95
32) Chloroform	6.041	83	1467487	93.57	ug/Kg	99
33) Ethyl acetate	6.163	43	2440378	447.63	ug/Kg	94
34) Tetrahydrofuran	6.236	42	167188	83.19	ug/Kg	92
36) Carbon Tetrachloride	6.217	117	885851	98.59	ug/Kg	95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28096.D
Acq On : 25 Apr 2016 10:54 am
Operator : ANGIED
Sample : IC1133-5 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 25 11:18:39 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 10:55:16 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.284	97	1053232	92.26 ug/Kg	97
38) 2-Butanone	6.363	43	1323303	441.26 ug/Kg	90
39) 1,1-Dichloropropene	6.412	75	1115347	95.20 ug/Kg	98
40) Propionitrile	6.674	54	883622	937.02 ug/Kg	100
41) Methacrylonitrile	6.704	41	3154557	908.30 ug/Kg	91
42) Benzene	6.686	78	3174153	90.13 ug/Kg	100
43) TAME	6.807	73	2072360	96.30 ug/Kg	96
45) 1,2-Dichloroethane	6.893	62	860668	90.22 ug/Kg	95
46) Trichloroethene	7.312	95	831776	91.49 ug/Kg	96
47) Methylcyclohexane	7.318	83	1507819	96.04 ug/Kg	96
48) Dibromomethane	7.744	93	395378	93.64 ug/Kg	97
49) 1,2-Dichloropropane	7.842	63	801561	94.81 ug/Kg	97
50) Bromodichloromethane	7.909	83	928534	97.41 ug/Kg	93
51) Methyl methacrylate	8.048	41	450510	99.84 ug/Kg	91
52) 2-Chloroethyl vinyl ether	8.468	63	1930113	519.20 ug/Kg	96
53) cis-1,3-Dichloropropene	8.547	75	1194979	97.47 ug/Kg	98
56) Toluene	8.797	91	3156386	89.05 ug/Kg	93
57) 2-Nitropropane	9.004	41	631693	485.20 ug/Kg	92
58) 4-Methyl-2-pentanone	9.150	43	2499199	440.62 ug/Kg	91
59) trans-1,3-Dichloropropene	9.204	75	921653	99.33 ug/Kg	97
60) Tetrachloroethene	9.204	166	693861	93.22 ug/Kg	99
61) Ethyl methacrylate	9.344	69	798289	103.12 ug/Kg	95
62) 1,1,2-Trichloroethane	9.363	83	490225	90.80 ug/Kg	92
63) Dibromochloromethane	9.557	129	607498	99.90 ug/Kg	95
64) 1,3-Dichloropropane	9.642	76	1049702	95.45 ug/Kg	98
65) 1,2-Dibromoethane	9.801	107	555568	96.74 ug/Kg	96
66) 2-hexanone	9.983	43	1777132	454.89 ug/Kg	89
67) 1-Chlorohexane	10.287	91	1010519	99.28 ug/Kg	90
68) Ethylbenzene	10.342	91	3297102	90.28 ug/Kg	91
69) Chlorobenzene	10.324	112	1918208	90.70 ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.385	131	656589	98.31 ug/Kg	97
71) m,p-Xylene	10.482	91	4580405	170.27 ug/Kg	86
72) o-Xylene	10.920	91	2619003	95.37 ug/Kg	95
73) Styrene	10.969	104	1986162	103.38 ug/Kg	96
74) Bromoform	11.011	173	319773	106.02 ug/Kg	97
75) Isopropylbenzene	11.230	105	3141152	93.48 ug/Kg	93
78) cis-1,4-Dichloro-2-butene	11.577	53	216192	96.97 ug/Kg	90
79) n-Propylbenzene	11.650	91	3469192	86.22 ug/Kg	91
80) Bromobenzene	11.650	156	723339	92.82 ug/Kg	95
81) 1,1,2,2-Tetrachloroethane	11.717	83	740419	88.89 ug/Kg	96
82) 1,3,5-Trimethylbenzene	11.845	105	2758173	91.40 ug/Kg	90
83) 2-Chlorotoluene	11.826	91	2528166	90.26 ug/Kg	96
84) trans-1,4-Dichloro-2-B...	11.893	53	196156	90.79 ug/Kg	94
85) 1,2,3-Trichloropropane	11.857	110	209817	91.83 ug/Kg	95
86) Cyclohexanone	11.911	55	167207	428.32 ug/Kg	97
87) 4-Chlorotoluene	11.991	91	2235289	91.26 ug/Kg	95
88) tert-Butylbenzene	12.173	91	1723851	96.10 ug/Kg	98
89) 1,2,4-Trimethylbenzene	12.246	105	2672696	92.53 ug/Kg	92
90) Pentachloroethane	12.216	167	424947	101.75 ug/Kg	98
91) sec-Butylbenzene	12.362	105	3455478	89.11 ug/Kg	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28096.D
Acq On : 25 Apr 2016 10:54 am
Operator : ANGIED
Sample : IC1133-5 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 25 11:18:39 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 10:55:16 2016
Response via : Initial Calibration

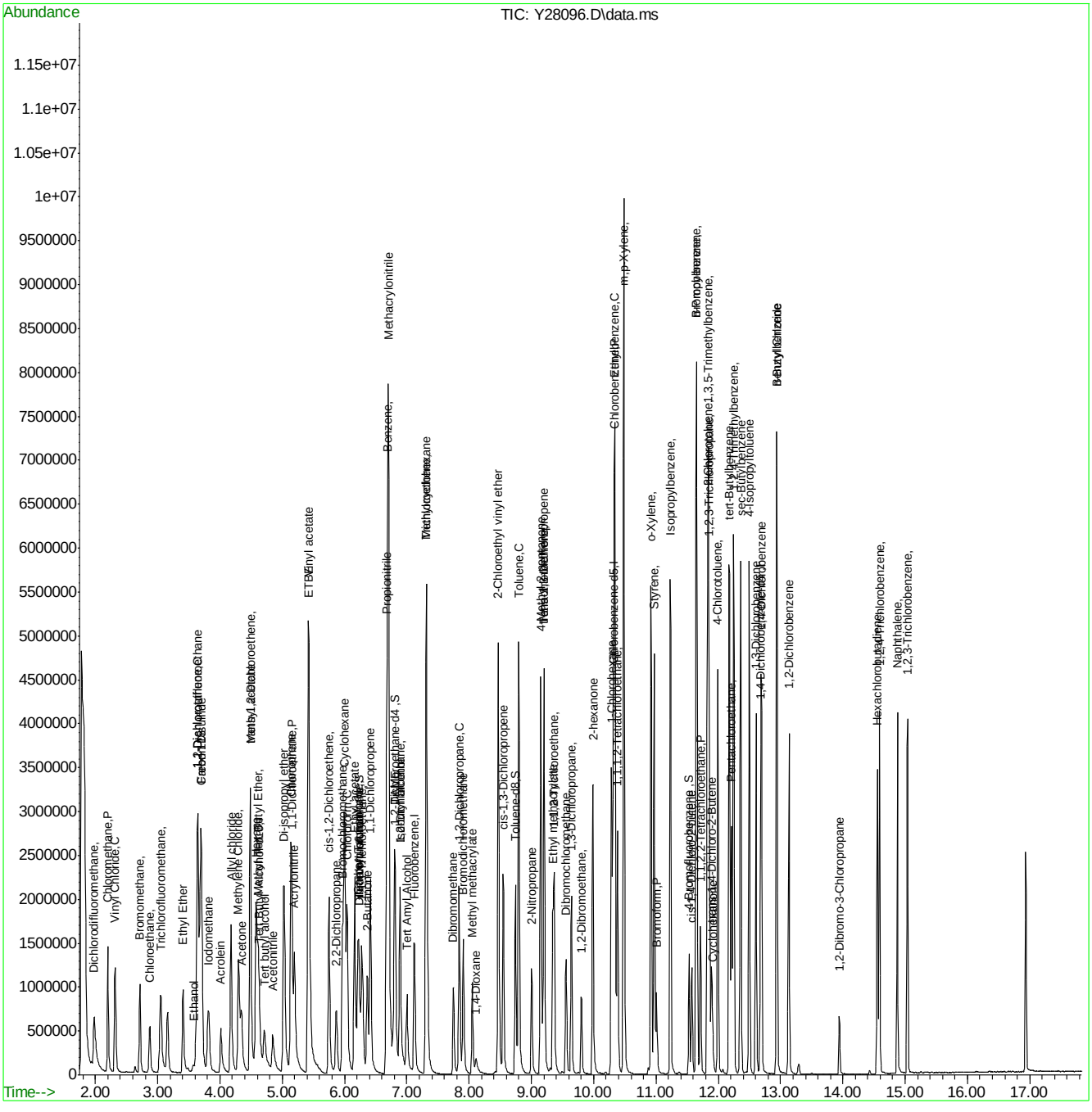
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.502	119	2831410	92.13	ug/Kg	94
93) 1,3-Dichlorobenzene	12.605	146	1361149	90.47	ug/Kg	97
94) 1,4-Dichlorobenzene	12.696	146	1361330	88.43	ug/Kg	96
95) n-Butylbenzene	12.940	92	1611112	93.76	ug/Kg	80
96) Benzyl Chloride	12.934	126	288323	96.19	ug/Kg#	20
97) 1,2-Dichlorobenzene	13.134	146	1307401	91.62	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.943	75	148544	96.26	ug/Kg	85
99) Hexachlorobutadiene	14.558	225	446421	93.89	ug/Kg	94
100) 1,2,4-Trichlorobenzene	14.588	180	835948	93.15	ug/Kg	98
101) Naphthalene	14.874	128	2146746	100.97	ug/Kg	97
102) 1,2,3-Trichlorobenzene	15.038	180	827087	93.38	ug/Kg	96
104) Ethanol	3.583	45	131421	1890.20	ug/Kg	95
105) Acrolein	4.015	56	562063	503.87	ug/Kg	95
106) Tert butyl alcohol	4.715	59	673153	955.05	ug/Kg	91
107) Isobutyl alcohol	6.893	42	340153	2039.40	ug/Kg	96
108) Tert Amyl Alcohol	7.002	59	587928	972.31	ug/Kg	96
109) 1,4-Dioxane	8.109	88	157531	2358.05	ug/Kg	98

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28096.D
Acq On : 25 Apr 2016 10:54 am
Operator : ANGIED
Sample : IC1133-5 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 25 11:18:39 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 10:55:16 2016
Response via : Initial Calibration



SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28097.D
Acq On : 25 Apr 2016 11:20 am
Operator : ANGIED
Sample : IC1133-6 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 25 11:45:53 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 11:45:50 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.121	96	1394332	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	947036	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.676	152	463540	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.633	65	145049	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.239	113	321169	50.48	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.96%			
44) 1,2-Dichloroethane-d4	6.817	65	316475	46.19	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 92.38%			
55) Toluene-d8	8.746	98	1324366	49.68	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.36%			
77) 4-Bromofluorobenzene	11.532	174	315563	49.36	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 98.72%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.981	85	1649371	138.12	ug/Kg	99
3) Chloromethane	2.200	50	1786933	129.76	ug/Kg	95
4) Vinyl Chloride	2.322	62	1828570	133.23	ug/Kg	95
5) Bromomethane	2.717	94	824255	124.27	ug/Kg	95
6) Chloroethane	2.869	64	554759	80.31	ug/Kg	92
7) Trichlorofluoromethane	3.045	101	1669087	130.45	ug/Kg	99
8) Ethyl Ether	3.410	59	943314	143.98	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.642	67	1478961	130.98	ug/Kg	95
10) 1,1-Dichloroethene	3.648	61	2122184	141.33	ug/Kg	92
11) Freon 113	3.702	101	1247135	133.58	ug/Kg	98
12) Carbon Disulfide	3.690	76	4025825	129.17	ug/Kg	96
13) Iodomethane	3.818	142	1856913	139.24	ug/Kg	95
14) Allyl chloride	4.177	41	1739723	133.83	ug/Kg	90
15) Methylene Chloride	4.299	49	1495056	107.12	ug/Kg	90
16) Acetone	4.347	43	1356011	645.20	ug/Kg	97
17) Methyl acetate	4.487	43	2930858	666.49	ug/Kg	90
18) trans-1,2-Dichloroethene	4.487	61	1559813	135.24	ug/Kg	95
19) Hexane	4.578	56	941067	125.09	ug/Kg	86
20) Methyl Tert Butyl Ether	4.615	73	2896904	144.26	ug/Kg#	25
21) Acetonitrile	4.846	41	982633	1337.26	ug/Kg	98
22) Di-isopropyl ether	5.029	45	3469579	142.24	ug/Kg	90
23) Chloroprene	5.138	53	1936473	137.89	ug/Kg	94
24) 1,1-Dichloroethane	5.156	63	2172186	136.62	ug/Kg	96
25) Acrylonitrile	5.193	53	1766018	728.83	ug/Kg	97
26) ETBE	5.424	59	3459972	142.71	ug/Kg	97
27) Vinyl acetate	5.418	43	7641057	605.99	ug/Kg	86
28) cis-1,2-Dichloroethene	5.753	96	1404180	141.29	ug/Kg	96
29) 2,2-Dichloropropane	5.868	77	768799	122.25	ug/Kg	99
30) Bromochloromethane	5.966	128	601906	149.24	ug/Kg#	85
31) Cyclohexane	6.002	84	2222590	142.14	ug/Kg	94
32) Chloroform	6.045	83	2206181	135.21	ug/Kg	97
33) Ethyl acetate	6.160	43	3728107	662.71	ug/Kg	91
34) Tetrahydrofuran	6.233	42	271292	174.90	ug/Kg	96
36) Carbon Tetrachloride	6.215	117	1368007	144.87	ug/Kg	96

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28097.D
Acq On : 25 Apr 2016 11:20 am
Operator : ANGIED
Sample : IC1133-6 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 25 11:45:53 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 11:45:50 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.282	97	1568556	132.41 ug/Kg	99
38) 2-Butanone	6.367	43	2090362	677.27 ug/Kg	92
39) 1,1-Dichloropropene	6.416	75	1703642	139.31 ug/Kg	96
40) Propionitrile	6.677	54	1363752	1389.64 ug/Kg	90
41) Methacrylonitrile	6.702	41	4594032	1278.50 ug/Kg	86
42) Benzene	6.683	78	4614996	126.84 ug/Kg	98
43) TAME	6.805	73	3347766	148.70 ug/Kg	96
45) 1,2-Dichloroethane	6.890	62	1345993	136.54 ug/Kg	96
46) Trichloroethene	7.310	95	1237382	131.37 ug/Kg	97
47) Methylcyclohexane	7.316	83	2304260	140.37 ug/Kg	97
48) Dibromomethane	7.748	93	622423	141.67 ug/Kg	98
49) 1,2-Dichloropropane	7.839	63	1252063	141.99 ug/Kg	95
50) Bromodichloromethane	7.906	83	1454565	145.54 ug/Kg	95
51) Methyl methacrylate	8.046	41	729106	153.36 ug/Kg	90
52) 2-Chloroethyl vinyl ether	8.472	63	2887004	731.24 ug/Kg	97
53) cis-1,3-Dichloropropene	8.551	75	1843862	143.42 ug/Kg	97
56) Toluene	8.794	91	4531968	123.95 ug/Kg	88
57) 2-Nitropropane	9.001	41	992994	727.54 ug/Kg	95
58) 4-Methyl-2-pentanone	9.153	43	3729722	638.70 ug/Kg	87
59) trans-1,3-Dichloropropene	9.202	75	1439654	147.33 ug/Kg	95
60) Tetrachloroethene	9.202	166	1012318	130.74 ug/Kg	97
61) Ethyl methacrylate	9.342	69	1273429	155.02 ug/Kg	95
62) 1,1,2-Trichloroethane	9.366	83	763738	136.65 ug/Kg	96
63) Dibromochloromethane	9.555	129	963455	150.26 ug/Kg	97
64) 1,3-Dichloropropane	9.640	76	1625005	141.40 ug/Kg	97
65) 1,2-Dibromoethane	9.804	107	872657	145.03 ug/Kg	100
66) 2-hexanone	9.987	43	2718383	671.93 ug/Kg	87
67) 1-Chlorohexane	10.285	91	1518408	141.66 ug/Kg	93
68) Ethylbenzene	10.340	91	4584323	121.39 ug/Kg	86
69) Chlorobenzene	10.327	112	2811303	128.44 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.382	131	1017808	145.00 ug/Kg	98
71) m,p-Xylene	10.486	91	6142947	223.17 ug/Kg	76
72) o-Xylene	10.917	91	3807021	132.68 ug/Kg	92
73) Styrene	10.972	104	2965503	145.39 ug/Kg	94
74) Bromoform	11.015	173	524722	163.01 ug/Kg	96
75) Isopropylbenzene	11.234	105	4470176	127.81 ug/Kg	86
78) cis-1,4-Dichloro-2-butene	11.574	53	343859	142.33 ug/Kg	97
79) n-Propylbenzene	11.654	91	4804840	112.64 ug/Kg	82
80) Bromobenzene	11.647	156	1119523	133.69 ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	11.714	83	1170291	131.81 ug/Kg	96
82) 1,3,5-Trimethylbenzene	11.842	105	3984967	123.25 ug/Kg	88
83) 2-Chlorotoluene	11.830	91	3718058	124.18 ug/Kg	93
84) trans-1,4-Dichloro-2-B...	11.891	53	313277	135.50 ug/Kg	92
85) 1,2,3-Trichloropropane	11.860	110	326587	133.28 ug/Kg	95
86) Cyclohexanone	11.909	55	273142	660.74 ug/Kg	96
87) 4-Chlorotoluene	11.994	91	3281078	125.06 ug/Kg	91
88) tert-Butylbenzene	12.177	91	2608373	134.43 ug/Kg	97
89) 1,2,4-Trimethylbenzene	12.250	105	3902822	125.82 ug/Kg	89
90) Pentachloroethane	12.213	167	699625	153.12 ug/Kg	96
91) sec-Butylbenzene	12.359	105	4873148	117.84 ug/Kg	86

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28097.D
Acq On : 25 Apr 2016 11:20 am
Operator : ANGIED
Sample : IC1133-6 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 25 11:45:53 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 11:45:50 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.499	119	4030987	122.23	ug/Kg	88
93) 1,3-Dichlorobenzene	12.603	146	2021904	125.66	ug/Kg	95
94) 1,4-Dichlorobenzene	12.694	146	1994505	121.66	ug/Kg	94
95) n-Butylbenzene	12.937	92	2352810	127.18	ug/Kg	75
96) Benzyl Chloride	12.937	126	467065	144.03	ug/Kg#	1
97) 1,2-Dichlorobenzene	13.132	146	1991660	130.21	ug/Kg	95
98) 1,2-Dibromo-3-Chloropr...	13.941	75	244587	146.48	ug/Kg	88
99) Hexachlorobutadiene	14.555	225	646245	126.21	ug/Kg	98
100) 1,2,4-Trichlorobenzene	14.592	180	1172710	121.53	ug/Kg	99
101) Naphthalene	14.872	128	3106102	133.75	ug/Kg	93
102) 1,2,3-Trichlorobenzene	15.036	180	1194645	125.38	ug/Kg	95
104) Ethanol	3.593	45	207096	2637.60	ug/Kg	92
105) Acrolein	4.013	56	893862	700.70	ug/Kg	97
106) Tert butyl alcohol	4.712	59	1084857	1360.20	ug/Kg	90
107) Isobutyl alcohol	6.890	42	549722	2875.16	ug/Kg	93
108) Tert Amyl Alcohol	7.000	59	945408	1376.92	ug/Kg	93
109) 1,4-Dioxane	8.113	88	250919	3175.71	ug/Kg	95

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

7.6.17

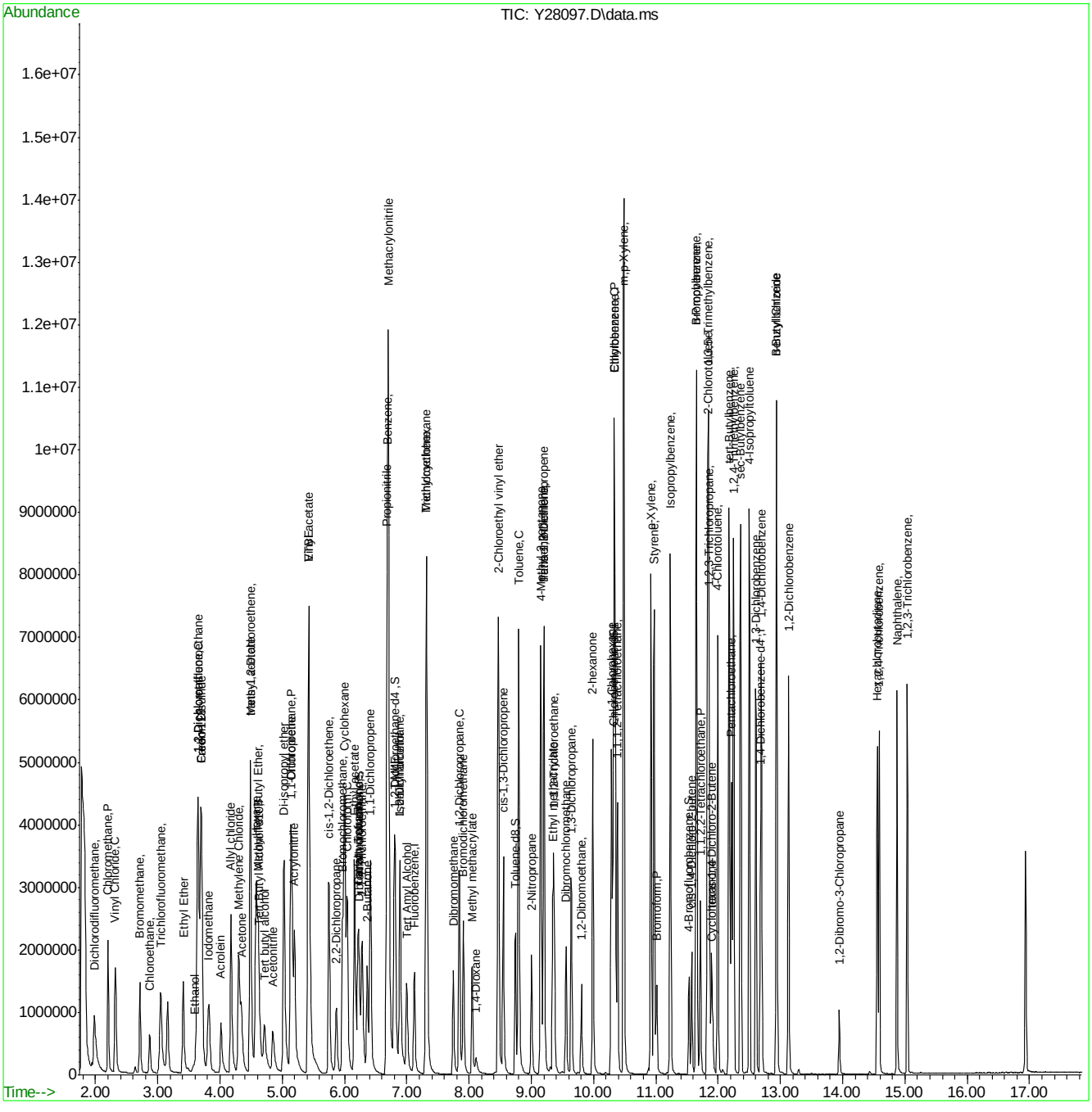
7

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28097.D
Acq On : 25 Apr 2016 11:20 am
Operator : ANGIED
Sample : IC1133-6 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 25 11:45:53 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 11:45:50 2016
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28098.D
Acq On : 25 Apr 2016 11:47 am
Operator : ANGIED
Sample : IC1133-7 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 25 12:06:07 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 11:46:46 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.122	96	1357519	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.309	117	920377	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.676	152	462785	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.639	65	111707	250.00	ug/Kg	0.01
System Monitoring Compounds						
35) Dibromofluoromethane	6.239	113	313165	50.48	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.96%			
44) 1,2-Dichloroethane-d4	6.817	65	322276	48.94	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 97.88%			
55) Toluene-d8	8.746	98	1312089	50.70	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.40%			
77) 4-Bromofluorobenzene	11.532	174	319897	50.23	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.981	85	2240402	195.28	ug/Kg	97
3) Chloromethane	2.200	50	2265558	172.86	ug/Kg	93
4) Vinyl Chloride	2.316	62	2384008	181.80	ug/Kg	95
5) Bromomethane	2.711	94	1051640	167.65	ug/Kg	97
6) Chloroethane	2.869	64	548687	125.40	ug/Kg	89
7) Trichlorofluoromethane	3.046	101	2158748	177.15	ug/Kg	98
8) Ethyl Ether	3.411	59	1161838	183.37	ug/Kg	95
9) 1,2-Dichlorotrifluoroe...	3.642	67	1876327	174.37	ug/Kg	95
10) 1,1-Dichloroethene	3.648	61	2723664	188.11	ug/Kg	91
11) Freon 113	3.703	101	1629533	182.61	ug/Kg	94
12) Carbon Disulfide	3.690	76	5069505	171.03	ug/Kg	94
13) Iodomethane	3.824	142	2367639	184.56	ug/Kg	99
14) Allyl chloride	4.177	41	2175898	175.07	ug/Kg	89
15) Methylene Chloride	4.299	49	1850495	218.50	ug/Kg	91
16) Acetone	4.347	43	1630300	815.74	ug/Kg	97
17) Methyl acetate	4.487	43	3417595	813.34	ug/Kg	89
18) trans-1,2-Dichloroethene	4.487	61	1996419	180.76	ug/Kg	96
19) Hexane	4.579	56	1249040	175.38	ug/Kg	91
20) Methyl Tert Butyl Ether	4.615	73	3499789	180.16	ug/Kg#	24
21) Acetonitrile	4.852	41	1176570	1674.89	ug/Kg	94
22) Di-isopropyl ether	5.029	45	4148774	176.22	ug/Kg	88
23) Chloroprene	5.138	53	2419226	179.35	ug/Kg	94
24) 1,1-Dichloroethane	5.157	63	2613906	171.41	ug/Kg	96
25) Acrylonitrile	5.199	53	2023025	861.59	ug/Kg	98
26) ETBE	5.430	59	4163463	177.82	ug/Kg	97
27) Vinyl acetate	5.418	43	9024937	759.45	ug/Kg	82
28) cis-1,2-Dichloroethene	5.753	96	1773941	185.12	ug/Kg	94
29) 2,2-Dichloropropane	5.868	77	950713	160.22	ug/Kg	99
30) Bromochloromethane	5.966	128	762816	194.43	ug/Kg#	86
31) Cyclohexane	6.002	84	2958287	196.04	ug/Kg	94
32) Chloroform	6.045	83	2797930	179.07	ug/Kg	97
33) Ethyl acetate	6.160	43	4642607	864.42	ug/Kg	89
34) Tetrahydrofuran	6.233	42	343168	198.44	ug/Kg	93
36) Carbon Tetrachloride	6.215	117	1843119	201.62	ug/Kg	98

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28098.D
Acq On : 25 Apr 2016 11:47 am
Operator : ANGIED
Sample : IC1133-7 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 25 12:06:07 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 11:46:46 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.282	97	1999535	176.83 ug/Kg	98
38) 2-Butanone	6.367	43	2579347	872.46 ug/Kg	90
39) 1,1-Dichloropropene	6.416	75	2236124	190.06 ug/Kg	95
40) Propionitrile	6.677	54	1705981	1807.67 ug/Kg	87
41) Methacrylonitrile	6.708	41	5639722	1652.75 ug/Kg	84
42) Benzene	6.683	78	5689625	164.86 ug/Kg	95
43) TAME	6.805	73	3911264	178.70 ug/Kg	96
45) 1,2-Dichloroethane	6.890	62	1689298	178.68 ug/Kg	95
46) Trichloroethene	7.310	95	1600871	178.26 ug/Kg	98
47) Methylcyclohexane	7.316	83	3110974	196.76 ug/Kg	98
48) Dibromomethane	7.748	93	797879	188.27 ug/Kg	98
49) 1,2-Dichloropropane	7.839	63	1585082	186.29 ug/Kg	94
50) Bromodichloromethane	7.906	83	1838816	189.92 ug/Kg	95
51) Methyl methacrylate	8.046	41	954356	205.41 ug/Kg	89
52) 2-Chloroethyl vinyl ether	8.472	63	3622789	946.43 ug/Kg	97
53) cis-1,3-Dichloropropene	8.551	75	2348347	189.00 ug/Kg	95
56) Toluene	8.794	91	5561525	161.18 ug/Kg	84
57) 2-Nitropropane	9.001	41	1279053	969.11 ug/Kg	96
58) 4-Methyl-2-pentanone	9.153	43	4569750	825.64 ug/Kg	83
59) trans-1,3-Dichloropropene	9.202	75	1830170	193.29 ug/Kg	93
60) Tetrachloroethene	9.202	166	1371677	186.27 ug/Kg	99
61) Ethyl methacrylate	9.342	69	1634615	203.61 ug/Kg	94
62) 1,1,2-Trichloroethane	9.366	83	972053	181.66 ug/Kg	97
63) Dibromochloromethane	9.555	129	1237447	198.52 ug/Kg	100
64) 1,3-Dichloropropane	9.640	76	2052607	185.55 ug/Kg	96
65) 1,2-Dibromoethane	9.804	107	1107297	190.41 ug/Kg	99
66) 2-hexanone	9.987	43	3389138	877.21 ug/Kg	86
67) 1-Chlorohexane	10.285	91	2064282	200.02 ug/Kg	94
68) Ethylbenzene	10.340	91	5607606	157.80 ug/Kg	79
69) Chlorobenzene	10.327	112	3544688	170.73 ug/Kg	96
70) 1,1,1,2-Tetrachloroethane	10.382	131	1304143	192.24 ug/Kg	98
71) m,p-Xylene	10.486	91	7224751	282.12 ug/Kg	66
72) o-Xylene	10.918	91	4715085	172.41 ug/Kg	89
73) Styrene	10.972	104	3739454	189.61 ug/Kg	92
74) Bromoform	11.015	173	679619	214.15 ug/Kg	97
75) Isopropylbenzene	11.234	105	5515794	166.38 ug/Kg	80
78) cis-1,4-Dichloro-2-butene	11.575	53	443559	185.48 ug/Kg	94
79) n-Propylbenzene	11.654	91	5960048	146.01 ug/Kg	75
80) Bromobenzene	11.648	156	1456228	177.40 ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	11.715	83	1479858	170.39 ug/Kg	95
82) 1,3,5-Trimethylbenzene	11.842	105	4985149	159.17 ug/Kg	84
83) 2-Chlorotoluene	11.824	91	4699003	161.84 ug/Kg	89
84) trans-1,4-Dichloro-2-B...	11.891	53	404993	178.33 ug/Kg	94
85) 1,2,3-Trichloropropane	11.861	110	413161	172.09 ug/Kg	96
86) Cyclohexanone	11.915	55	337106	833.33 ug/Kg	95
87) 4-Chlorotoluene	11.994	91	4194924	164.72 ug/Kg	85
88) tert-Butylbenzene	12.177	91	3338932	175.40 ug/Kg	95
89) 1,2,4-Trimethylbenzene	12.250	105	4888199	162.20 ug/Kg	83
90) Pentachloroethane	12.213	167	916030	200.12 ug/Kg	98
91) sec-Butylbenzene	12.359	105	6030286	151.47 ug/Kg	78

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28098.D
Acq On : 25 Apr 2016 11:47 am
Operator : ANGIED
Sample : IC1133-7 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 25 12:06:07 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 11:46:46 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.499	119	5129717	160.76	ug/Kg	83
93) 1,3-Dichlorobenzene	12.603	146	2639433	168.87	ug/Kg	91
94) 1,4-Dichlorobenzene	12.694	146	2651452	167.26	ug/Kg	92
95) n-Butylbenzene	12.937	92	3163975	175.77	ug/Kg#	62
96) Benzyl Chloride	12.937	126	596334	185.42	ug/Kg#	1
97) 1,2-Dichlorobenzene	13.132	146	2571687	172.19	ug/Kg	93
98) 1,2-Dibromo-3-Chloropr...	13.941	75	303740	182.92	ug/Kg	91
99) Hexachlorobutadiene	14.556	225	936445	188.16	ug/Kg	98
100) 1,2,4-Trichlorobenzene	14.592	180	1683624	180.47	ug/Kg	99
101) Naphthalene	14.872	128	3927745	172.52	ug/Kg	88
102) 1,2,3-Trichlorobenzene	15.036	180	1650968	178.44	ug/Kg	95
104) Ethanol	3.593	45	242564	4093.84	ug/Kg	93
105) Acrolein	4.013	56	1099006	1131.05	ug/Kg	96
106) Tert butyl alcohol	4.719	59	1340388	2216.64	ug/Kg	85
107) Isobutyl alcohol	6.896	42	706001	4828.15	ug/Kg	93
108) Tert Amyl Alcohol	7.000	59	1218641	2336.58	ug/Kg	94
109) 1,4-Dioxane	8.113	88	330374	5376.86	ug/Kg	91

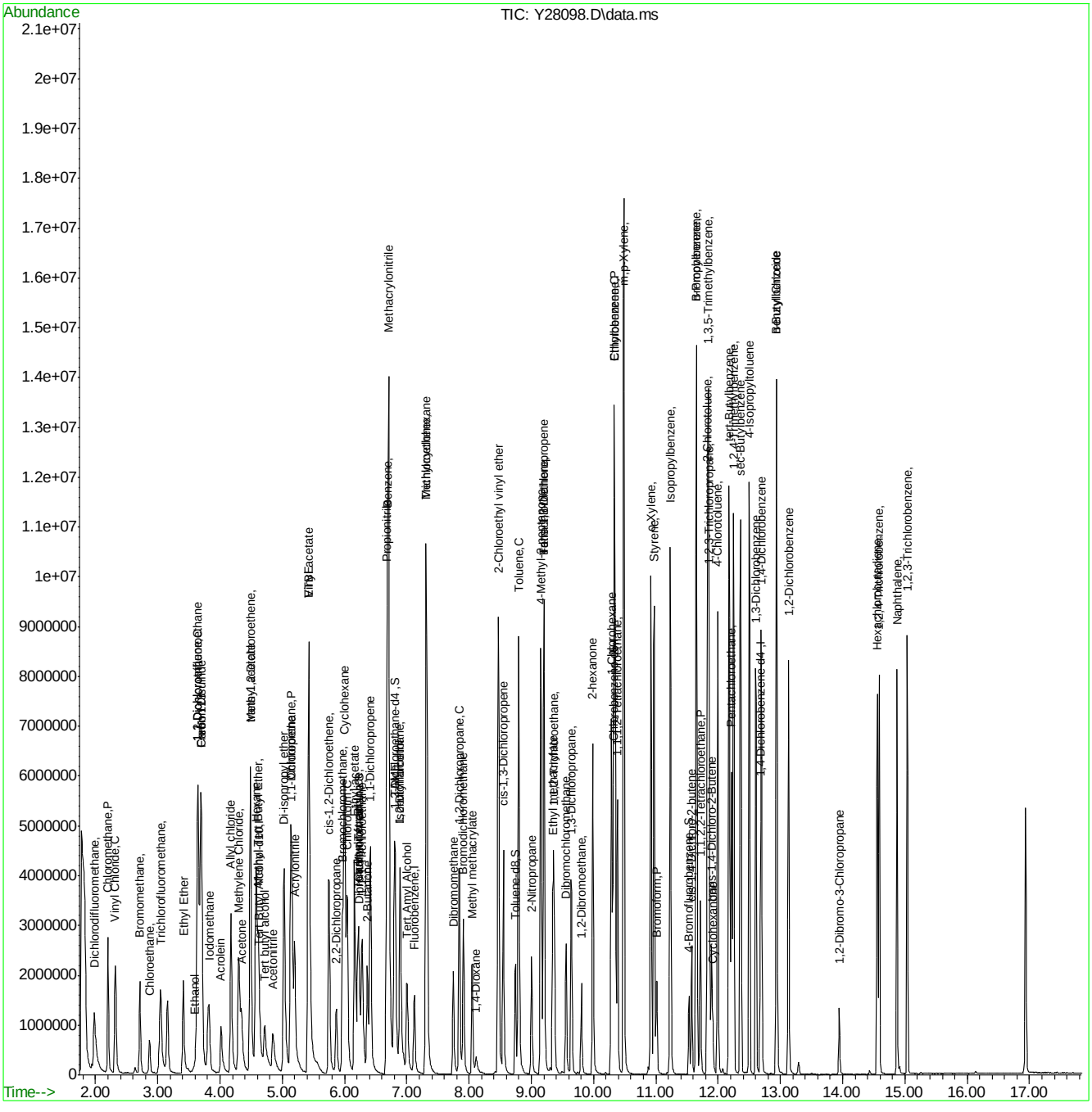
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28098.D
Acq On : 25 Apr 2016 11:47 am
Operator : ANGIED
Sample : IC1133-7 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 25 12:06:07 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 11:46:46 2016
Response via : Initial Calibration



SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28100.D
Acq On : 25 Apr 2016 12:40 pm
Operator : ANGIED
Sample : ICV1133-4 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 25 13:40:21 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.123	96	1361823	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.310	117	898405	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.677	152	421822	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.628	65	124154	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	307851	49.40	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.80%			
44) 1,2-Dichloroethane-d4	6.818	65	316835	48.11	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 96.22%			
55) Toluene-d8	8.747	98	1286054	50.81	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.62%			
77) 4-Bromofluorobenzene	11.533	174	298794	51.44	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 102.88%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.982	85	596550	52.01	ug/Kg	95
3) Chloromethane	2.201	50	658814	51.10	ug/Kg	99
4) Vinyl Chloride	2.317	62	639214	49.23	ug/Kg	98
5) Bromomethane	2.712	94	297211	48.35	ug/Kg	97
6) Chloroethane	2.876	64	290505	43.06	ug/Kg	97
7) Trichlorofluoromethane	3.053	101	602294	50.09	ug/Kg	98
8) Ethyl Ether	3.406	59	311384	49.58	ug/Kg	96
9) 1,2-Dichlorotrifluoroe...	3.637	67	561413	52.98	ug/Kg	96
10) 1,1-Dichloroethene	3.649	61	723103	50.21	ug/Kg	91
11) Freon 113	3.704	101	442501	50.05	ug/Kg	98
12) Carbon Disulfide	3.685	76	1453342	49.91	ug/Kg	97
13) Iodomethane	3.807	142	628958	49.42	ug/Kg	98
14) Allyl chloride	4.178	41	534852	43.67	ug/Kg	92
15) Methylene Chloride	4.300	49	558405	51.11	ug/Kg	95
16) Acetone	4.348	43	401795	205.83	ug/Kg	97
17) Methyl acetate	4.488	43	991416	241.64	ug/Kg	95
18) trans-1,2-Dichloroethene	4.488	61	610657	55.88	ug/Kg	96
19) Hexane	4.586	56	371730	52.96	ug/Kg	86
20) Methyl Tert Butyl Ether	4.610	73	945154	49.20	ug/Kg#	30
21) Acetonitrile	4.847	41	305875	444.37	ug/Kg	99
22) Di-isopropyl ether	5.024	45	1152400	49.64	ug/Kg	94
23) Chloroprene	5.139	53	595137	44.64	ug/Kg	98
24) 1,1-Dichloroethane	5.158	63	775433	51.75	ug/Kg	96
25) Acrylonitrile	5.194	53	565325	244.85	ug/Kg	98
26) ETBE	5.425	59	1129252	48.85	ug/Kg	97
27) Vinyl acetate	5.419	43	2987383	259.51	ug/Kg	94
28) cis-1,2-Dichloroethene	5.748	96	476833	50.14	ug/Kg	96
29) 2,2-Dichloropropane	5.869	77	321697	55.62	ug/Kg	100
30) Bromochloromethane	5.967	128	195116	49.77	ug/Kg#	86
31) Cyclohexane	5.997	84	775491	51.37	ug/Kg	93
32) Chloroform	6.046	83	798582	51.72	ug/Kg	99
33) Ethyl acetate	6.161	43	1350609	255.63	ug/Kg	95
34) Tetrahydrofuran	6.234	42	87742	48.72	ug/Kg	97
36) Carbon Tetrachloride	6.216	117	490680	53.45	ug/Kg	96

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28100.D
Acq On : 25 Apr 2016 12:40 pm
Operator : ANGIED
Sample : ICV1133-4 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 25 13:40:21 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.283	97	569574	51.06 ug/Kg	98
38) 2-Butanone	6.368	43	648183	222.61 ug/Kg	94
39) 1,1-Dichloropropene	6.417	75	644284	54.98 ug/Kg	94
40) Propionitrile	6.678	54	447431	479.19 ug/Kg	79
41) Methacrylonitrile	6.703	41	1660466	497.41 ug/Kg	92
42) Benzene	6.684	78	1782974	52.83 ug/Kg	97
43) TAME	6.806	73	1086226	50.24 ug/Kg	98
45) 1,2-Dichloroethane	6.891	62	477133	51.09 ug/Kg	95
46) Trichloroethene	7.311	95	470107	53.00 ug/Kg	99
47) Methylcyclohexane	7.317	83	865222	54.68 ug/Kg	96
48) Dibromomethane	7.749	93	225451	53.48 ug/Kg	99
49) 1,2-Dichloropropane	7.846	63	422471	49.98 ug/Kg	95
50) Bromodichloromethane	7.907	83	507202	52.60 ug/Kg	97
51) Methyl methacrylate	8.053	41	228010	48.73 ug/Kg	93
52) 2-Chloroethyl vinyl ether	8.467	63	1015930	266.61 ug/Kg	97
53) cis-1,3-Dichloropropene	8.552	75	670849	54.25 ug/Kg	97
56) Toluene	8.795	91	1786966	54.57 ug/Kg	93
57) 2-Nitropropane	9.002	41	305809	238.42 ug/Kg	94
58) 4-Methyl-2-pentanone	9.154	43	1285275	243.97 ug/Kg	95
59) trans-1,3-Dichloropropene	9.203	75	552281	59.75 ug/Kg	98
60) Tetrachloroethene	9.203	166	405221	56.93 ug/Kg	99
61) Ethyl methacrylate	9.343	69	339017	43.15 ug/Kg	96
62) 1,1,2-Trichloroethane	9.361	83	264011	51.22 ug/Kg	98
63) Dibromochloromethane	9.556	129	329490	54.21 ug/Kg	97
64) 1,3-Dichloropropane	9.641	76	548750	51.35 ug/Kg	99
65) 1,2-Dibromoethane	9.805	107	286638	50.84 ug/Kg	99
66) 2-hexanone	9.988	43	833642	224.99 ug/Kg	90
67) 1-Chlorohexane	10.286	91	549334	54.53 ug/Kg	93
68) Ethylbenzene	10.341	91	1894497	56.31 ug/Kg	97
69) Chlorobenzene	10.328	112	1088475	54.86 ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.383	131	356934	54.20 ug/Kg	95
71) m,p-Xylene	10.487	91	2788850	111.09 ug/Kg	92
72) o-Xylene	10.919	91	1470002	56.17 ug/Kg	99
73) Styrene	10.973	104	1092520	57.18 ug/Kg	98
74) Bromoform	11.016	173	168090	53.72 ug/Kg	96
75) Isopropylbenzene	11.235	105	1836758	58.16 ug/Kg	95
78) cis-1,4-Dichloro-2-butene	11.576	53	94142	43.64 ug/Kg	91
79) n-Propylbenzene	11.655	91	2120614	57.32 ug/Kg	93
80) Bromobenzene	11.649	156	400948	54.47 ug/Kg	99
81) 1,1,2,2-Tetrachloroethane	11.716	83	376283	48.56 ug/Kg	96
82) 1,3,5-Trimethylbenzene	11.843	105	1602249	57.81 ug/Kg	97
83) 2-Chlorotoluene	11.825	91	1459647	56.70 ug/Kg	97
84) trans-1,4-Dichloro-2-B...	11.892	53	92439	45.36 ug/Kg	96
85) 1,2,3-Trichloropropane	11.862	110	105975	49.41 ug/Kg	85
86) Cyclohexanone	11.916	55	63018	175.08 ug/Kg	94
87) 4-Chlorotoluene	11.995	91	1317263	58.21 ug/Kg	95
88) tert-Butylbenzene	12.178	91	954230	55.98 ug/Kg	98
89) 1,2,4-Trimethylbenzene	12.245	105	1564344	58.53 ug/Kg	95
90) Pentachloroethane	12.214	167	212365	50.90 ug/Kg	98
91) sec-Butylbenzene	12.360	105	2065823	58.97 ug/Kg	95

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28100.D
Acq On : 25 Apr 2016 12:40 pm
Operator : ANGIED
Sample : ICV1133-4 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 25 13:40:21 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

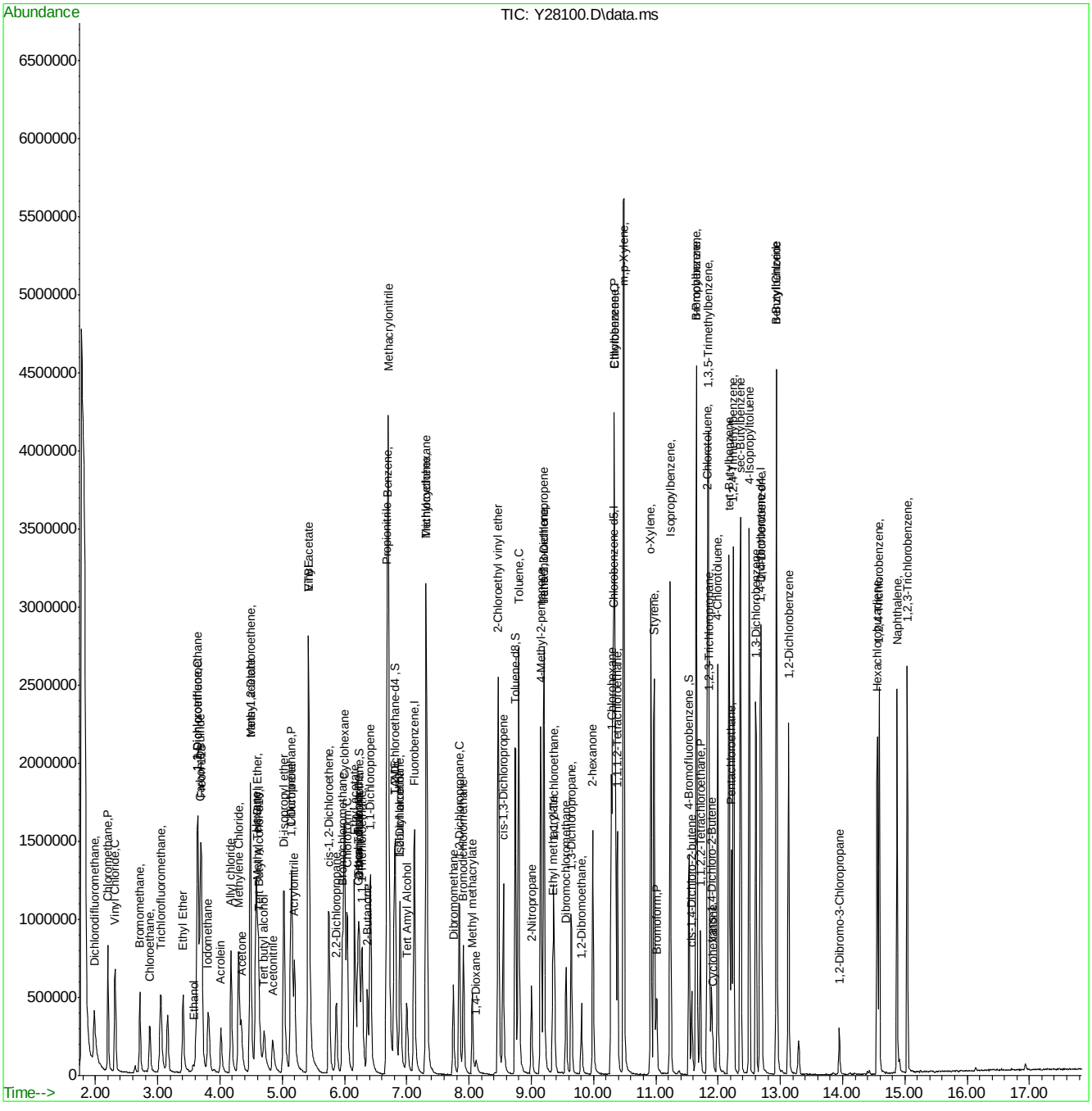
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.500	119	1666886	58.97	ug/Kg	97
93) 1,3-Dichlorobenzene	12.604	146	813727	58.42	ug/Kg	97
94) 1,4-Dichlorobenzene	12.695	146	798172	56.56	ug/Kg	96
95) n-Butylbenzene	12.938	92	979150	59.40	ug/Kg	87
96) Benzyl Chloride	12.938	126	146585	50.53	ug/Kg#	69
97) 1,2-Dichlorobenzene	13.133	146	757405	56.76	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.948	75	68633	45.91	ug/Kg	98
99) Hexachlorobutadiene	14.557	225	271163	56.45	ug/Kg	95
100) 1,2,4-Trichlorobenzene	14.587	180	532688	60.66	ug/Kg	98
101) Naphthalene	14.873	128	1279540	58.82	ug/Kg	98
102) 1,2,3-Trichlorobenzene	15.037	180	509737	58.79	ug/Kg	96
104) Ethanol	3.576	45	67435	1020.60	ug/Kg	99
105) Acrolein	4.014	56	303695	276.05	ug/Kg	94
106) Tert butyl alcohol	4.707	59	340652	499.14	ug/Kg	96
107) Isobutyl alcohol	6.891	42	160402	958.62	ug/Kg	93
108) Tert Amyl Alcohol	7.001	59	283498	477.59	ug/Kg	93
109) 1,4-Dioxane	8.114	88	70291	981.06	ug/Kg	96

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\042516\
Data File : Y28100.D
Acq On : 25 Apr 2016 12:40 pm
Operator : ANGIED
Sample : ICV1133-4 Inst : MSVOA14
Misc : MS33654,VY1133,5.00,,,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 25 13:40:21 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration



042516APP9-Y.m Tue Apr 26 09:14:40 2016 Page: 4

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28294.D
Acq On : 3 May 2016 10:09 am
Operator : ANGIED
Sample : CC1133-4 Inst : MSVOA14
Misc : MS33759,VY1144,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 03 10:30:38 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.123	96	1110842	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.311	117	759833	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.678	152	356016	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.629	65	109820	250.00	ug/Kg	0.00

System Monitoring Compounds						
35) Dibromofluoromethane	6.241	113	257912	50.73	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.46%			
44) 1,2-Dichloroethane-d4	6.819	65	252902	47.07	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 94.14%			
55) Toluene-d8	8.742	98	1064337	49.72	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.44%			
77) 4-Bromofluorobenzene	11.534	174	261932	53.42	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 106.84%			

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.983	85	527830	56.41	ug/Kg	97
3) Chloromethane	2.202	50	539088	51.26	ug/Kg	95
4) Vinyl Chloride	2.318	62	532479	50.28	ug/Kg	99
5) Bromomethane	2.713	94	248640	49.59	ug/Kg	96
6) Chloroethane	2.877	64	240682	43.73	ug/Kg	95
7) Trichlorofluoromethane	3.048	101	522438	53.26	ug/Kg	99
8) Ethyl Ether	3.406	59	251693	49.13	ug/Kg	92
9) 1,2-Dichlorotrifluoroe...	3.638	67	409025	47.32	ug/Kg	95
10) 1,1-Dichloroethene	3.650	61	559871	47.66	ug/Kg	91
11) Freon 113	3.705	101	356546	49.44	ug/Kg	92
12) Carbon Disulfide	3.692	76	1131753	47.65	ug/Kg	98
13) Iodomethane	3.808	142	548427	52.83	ug/Kg	97
14) Allyl chloride	4.179	41	496073	49.66	ug/Kg	92
15) Methylene Chloride	4.295	49	412943	46.09	ug/Kg	90
16) Acetone	4.343	43	397257	249.48	ug/Kg	92
17) Methyl acetate	4.489	43	778620	232.65	ug/Kg	94
18) trans-1,2-Dichloroethene	4.483	61	441119	49.49	ug/Kg	98
19) Hexane	4.581	56	274622	47.97	ug/Kg	92
20) Methyl Tert Butyl Ether	4.611	73	864355	55.16	ug/Kg#	23
21) Acetonitrile	4.842	41	268677	478.52	ug/Kg	98
22) Di-isopropyl ether	5.025	45	1003608	52.99	ug/Kg	91
23) Chloroprene	5.140	53	582426	53.56	ug/Kg	98
24) 1,1-Dichloroethane	5.159	63	631179	51.64	ug/Kg	96
25) Acrylonitrile	5.195	53	472537	250.90	ug/Kg	95
26) ETBE	5.426	59	1039612	55.14	ug/Kg	97
27) Vinyl acetate	5.420	43	2464611	262.47	ug/Kg	95
28) cis-1,2-Dichloroethene	5.749	96	398527	51.37	ug/Kg	97
29) 2,2-Dichloropropane	5.870	77	271626	57.58	ug/Kg	98
30) Bromochloromethane	5.968	128	175175	54.78	ug/Kg#	81
31) Cyclohexane	5.998	84	630609	51.21	ug/Kg	97
32) Chloroform	6.041	83	621193	49.32	ug/Kg	99
33) Ethyl acetate	6.162	43	996521	231.23	ug/Kg	96
34) Tetrahydrofuran	6.235	42	62253	42.30	ug/Kg	87
36) Carbon Tetrachloride	6.217	117	414314	55.32	ug/Kg	96

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28294.D
Acq On : 3 May 2016 10:09 am
Operator : ANGIED
Sample : CC1133-4 Inst : MSVOA14
Misc : MS33759,VY1144,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 03 10:30:38 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.284	97	472099	51.88 ug/Kg	98
38) 2-Butanone	6.363	43	561645	236.47 ug/Kg	93
39) 1,1-Dichloropropene	6.412	75	482433	50.47 ug/Kg	95
40) Propionitrile	6.673	54	349054	458.29 ug/Kg	97
41) Methacrylonitrile	6.704	41	1332966	489.52 ug/Kg	93
42) Benzene	6.679	78	1405299	51.04 ug/Kg	97
43) TAME	6.801	73	948004	53.75 ug/Kg	95
45) 1,2-Dichloroethane	6.892	62	373243	48.99 ug/Kg	96
46) Trichloroethene	7.312	95	354081	48.94 ug/Kg	93
47) Methylcyclohexane	7.318	83	661293	51.23 ug/Kg	96
48) Dibromomethane	7.744	93	167862	48.81 ug/Kg	95
49) 1,2-Dichloropropane	7.841	63	339371	49.22 ug/Kg	96
50) Bromodichloromethane	7.908	83	404824	51.47 ug/Kg	98
51) Methyl methacrylate	8.048	41	175722	46.04 ug/Kg	93
52) 2-Chloroethyl vinyl ether	8.468	63	782765	251.83 ug/Kg	95
53) cis-1,3-Dichloropropene	8.547	75	519835	51.53 ug/Kg	99
56) Toluene	8.796	91	1428605	51.58 ug/Kg	95
57) 2-Nitropropane	9.003	41	260040	239.71 ug/Kg	94
58) 4-Methyl-2-pentanone	9.149	43	1046344	234.84 ug/Kg	93
59) trans-1,3-Dichloropropene	9.204	75	387169	49.53 ug/Kg	97
60) Tetrachloroethene	9.204	166	325767	54.12 ug/Kg	94
61) Ethyl methacrylate	9.344	69	315996	47.56 ug/Kg	92
62) 1,1,2-Trichloroethane	9.362	83	207467	47.59 ug/Kg	95
63) Dibromochloromethane	9.557	129	263427	51.25 ug/Kg	97
64) 1,3-Dichloropropane	9.642	76	439341	48.61 ug/Kg	99
65) 1,2-Dibromoethane	9.806	107	233055	48.88 ug/Kg	99
66) 2-hexanone	9.989	43	717698	229.03 ug/Kg	90
67) 1-Chlorohexane	10.287	91	430209	50.49 ug/Kg	90
68) Ethylbenzene	10.342	91	1505500	52.91 ug/Kg	97
69) Chlorobenzene	10.323	112	869667	51.82 ug/Kg	93
70) 1,1,1,2-Tetrachloroethane	10.384	131	297743	53.46 ug/Kg	96
71) m,p-Xylene	10.482	91	2230883	104.32 ug/Kg	95
72) o-Xylene	10.920	91	1176174	53.14 ug/Kg	96
73) Styrene	10.974	104	870862	53.89 ug/Kg	97
74) Bromoform	11.011	173	139197	52.60 ug/Kg	98
75) Isopropylbenzene	11.230	105	1453657	54.42 ug/Kg	98
78) cis-1,4-Dichloro-2-butene	11.577	53	82454	45.29 ug/Kg	95
79) n-Propylbenzene	11.650	91	1592687	50.33 ug/Kg	96
80) Bromobenzene	11.650	156	330474	53.19 ug/Kg	99
81) 1,1,2,2-Tetrachloroethane	11.716	83	296025	45.26 ug/Kg	98
82) 1,3,5-Trimethylbenzene	11.844	105	1290699	55.18 ug/Kg	96
83) 2-Chlorotoluene	11.826	91	1138814	52.41 ug/Kg	97
84) trans-1,4-Dichloro-2-B...	11.893	53	77973	45.33 ug/Kg	87
85) 1,2,3-Trichloropropane	11.862	110	78819	43.54 ug/Kg	91
86) Cyclohexanone	11.911	55	62503	205.74 ug/Kg	90
87) 4-Chlorotoluene	11.990	91	1021938	53.51 ug/Kg	98
88) tert-Butylbenzene	12.173	91	771211	53.60 ug/Kg	98
89) 1,2,4-Trimethylbenzene	12.246	105	1236262	54.80 ug/Kg	97
90) Pentachloroethane	12.215	167	202538	57.51 ug/Kg	94
91) sec-Butylbenzene	12.361	105	1606866	54.35 ug/Kg	95

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28294.D
Acq On : 3 May 2016 10:09 am
Operator : ANGIED
Sample : CC1133-4 Inst : MSVOA14
Misc : MS33759,VY1144,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 03 10:30:38 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.501	119	1339178	56.13	ug/Kg	98
93) 1,3-Dichlorobenzene	12.605	146	619500	52.69	ug/Kg	97
94) 1,4-Dichlorobenzene	12.696	146	621688	52.20	ug/Kg	97
95) n-Butylbenzene	12.939	92	724430	51.67	ug/Kg	92
96) Benzyl Chloride	12.933	126	121686	49.70	ug/Kg#	50
97) 1,2-Dichlorobenzene	13.134	146	599276	53.22	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.943	75	57971	45.94	ug/Kg	91
99) Hexachlorobutadiene	14.557	225	230740	56.97	ug/Kg	88
100) 1,2,4-Trichlorobenzene	14.588	180	427771	57.72	ug/Kg	99
101) Naphthalene	14.874	128	968847	52.33	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.038	180	424511	58.01	ug/Kg	99
104) Ethanol	3.577	45	51086	874.08	ug/Kg	85
105) Acrolein	4.015	56	231078	237.46	ug/Kg	94
106) Tert butyl alcohol	4.708	59	285885	473.57	ug/Kg	95
107) Isobutyl alcohol	6.886	42	131495	888.43	ug/Kg	94
108) Tert Amyl Alcohol	6.996	59	240645	458.31	ug/Kg	89
109) 1,4-Dioxane	8.121	88	62849	991.68	ug/Kg	81

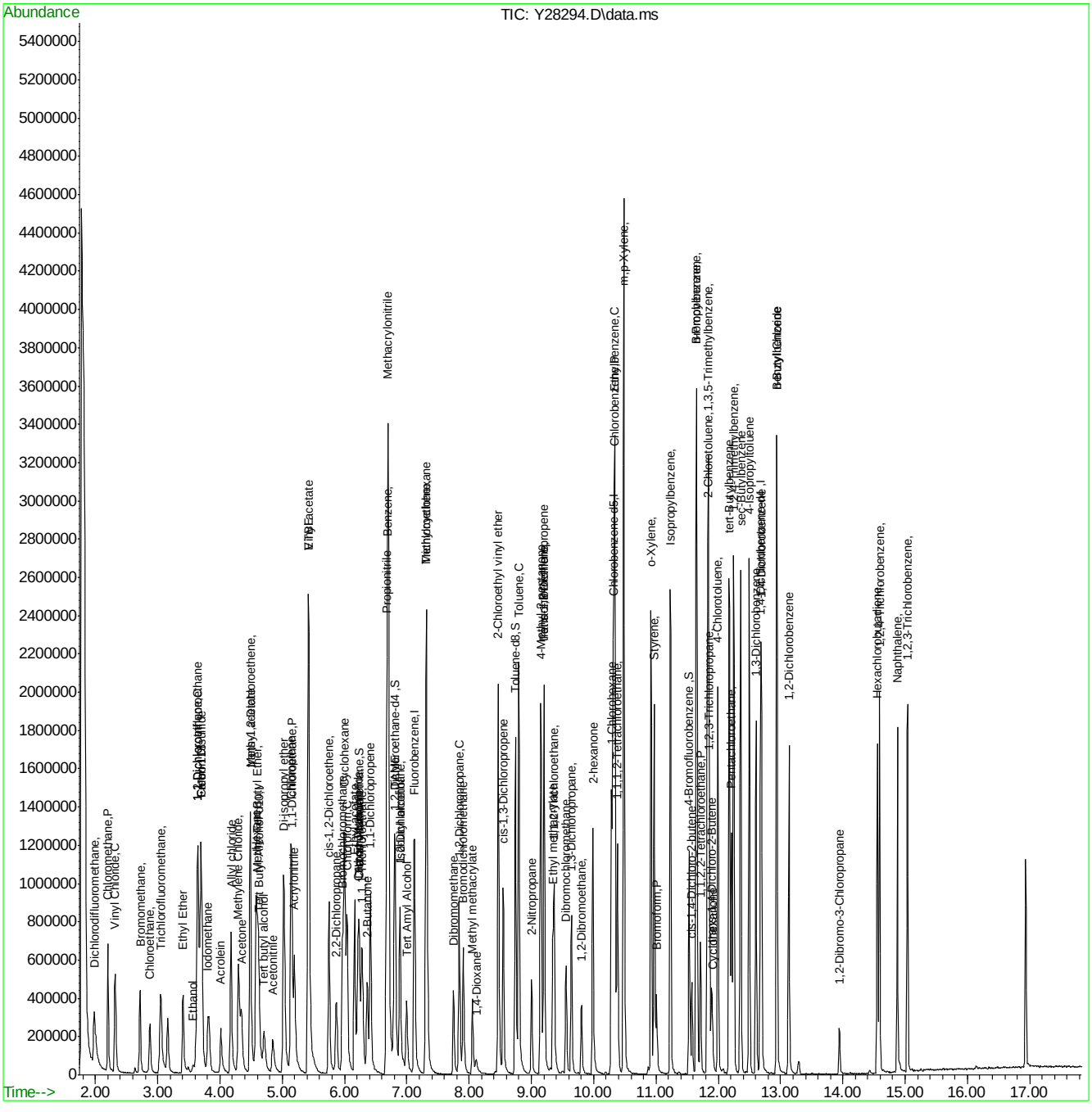
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28294.D
Acq On : 3 May 2016 10:09 am
Operator : ANGIED
Sample : CC1133-4 Inst : MSVOA14
Misc : MS33759,VY1144,5.00,,,5,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: May 03 10:30:38 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration



SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28316.D
Acq On : 3 May 2016 7:48 pm
Operator : ANGIED
Sample : ECC1133-4 Inst : MSVOA14
Misc : MS33769,VY1144,5.00,,,5,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 04 09:18:12 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	7.122	96	1116125	50.00	ug/Kg	0.00
54) Chlorobenzene-d5	10.310	117	734892	50.00	ug/Kg	0.00
76) 1,4-Dichlorobenzene-d4	12.676	152	344211	50.00	ug/Kg	0.00
103) Tert Butyl Alcohol-d10	4.628	65	108473	250.00	ug/Kg	0.00
System Monitoring Compounds						
35) Dibromofluoromethane	6.240	113	246494	48.26	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.52%			
44) 1,2-Dichloroethane-d4	6.818	65	252558	46.79	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 93.58%			
55) Toluene-d8	8.746	98	1056795	51.04	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 102.08%			
77) 4-Bromofluorobenzene	11.532	174	251085	52.97	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 105.94%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.981	85	538973	57.33	ug/Kg	96
3) Chloromethane	2.200	50	520861	49.29	ug/Kg	98
4) Vinyl Chloride	2.316	62	518236	48.70	ug/Kg	99
5) Bromomethane	2.717	94	234461	46.54	ug/Kg	92
6) Chloroethane	2.876	64	234247	42.36	ug/Kg	94
7) Trichlorofluoromethane	3.052	101	484204	49.13	ug/Kg	99
8) Ethyl Ether	3.405	59	227252	44.15	ug/Kg	94
9) 1,2-Dichlorotrifluoroe...	3.642	67	385347	44.37	ug/Kg	94
10) 1,1-Dichloroethene	3.654	61	535135	45.34	ug/Kg	94
11) Freon 113	3.703	101	335685	46.33	ug/Kg	96
12) Carbon Disulfide	3.691	76	1041530	43.64	ug/Kg	99
13) Iodomethane	3.806	142	514818	49.35	ug/Kg	98
14) Allyl chloride	4.177	41	471711	47.00	ug/Kg	91
15) Methylene Chloride	4.293	49	386323	42.77	ug/Kg	90
16) Acetone	4.348	43	356012	222.52	ug/Kg	99
17) Methyl acetate	4.488	43	732944	217.97	ug/Kg	95
18) trans-1,2-Dichloroethene	4.488	61	406163	45.35	ug/Kg	95
19) Hexane	4.579	56	244693	42.54	ug/Kg	89
20) Methyl Tert Butyl Ether	4.615	73	778104	49.42	ug/Kg#	24
21) Acetonitrile	4.847	41	249706	442.62	ug/Kg	93
22) Di-isopropyl ether	5.029	45	910936	47.87	ug/Kg	92
23) Chloroprene	5.139	53	528070	48.33	ug/Kg	96
24) 1,1-Dichloroethane	5.157	63	545814	44.44	ug/Kg	97
25) Acrylonitrile	5.193	53	410532	216.95	ug/Kg	95
26) ETBE	5.425	59	905270	47.78	ug/Kg	95
27) Vinyl acetate	5.418	43	2159638	228.91	ug/Kg	94
28) cis-1,2-Dichloroethene	5.753	96	372184	47.75	ug/Kg	94
29) 2,2-Dichloropropane	5.869	77	262399	55.36	ug/Kg	100
30) Bromochloromethane	5.966	128	161050	50.13	ug/Kg#	78
31) Cyclohexane	5.996	84	634873	51.32	ug/Kg	94
32) Chloroform	6.045	83	593589	46.91	ug/Kg	97
33) Ethyl acetate	6.161	43	1010974	233.47	ug/Kg	95
34) Tetrahydrofuran	6.240	42	69455	47.03	ug/Kg	87
36) Carbon Tetrachloride	6.215	117	394404	52.42	ug/Kg	98

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28316.D
Acq On : 3 May 2016 7:48 pm
Operator : ANGIED
Sample : ECC1133-4 Inst : MSVOA14
Misc : MS33769,VY1144,5.00,,,5,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 04 09:18:12 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,1,1-Trichloroethane	6.282	97	458287	50.12	ug/Kg	95
38) 2-Butanone	6.367	43	539087	225.90	ug/Kg	94
39) 1,1-Dichloropropene	6.416	75	454069	47.28	ug/Kg	99
40) Propionitrile	6.672	54	333421	435.69	ug/Kg	94
41) Methacrylonitrile	6.702	41	1301019	475.53	ug/Kg	92
42) Benzene	6.684	78	1339031	48.41	ug/Kg	94
43) TAME	6.806	73	900171	50.80	ug/Kg	99
45) 1,2-Dichloroethane	6.891	62	354109	46.26	ug/Kg	97
46) Trichloroethene	7.310	95	323648	44.52	ug/Kg	95
47) Methylcyclohexane	7.317	83	648713	50.02	ug/Kg	96
48) Dibromomethane	7.748	93	151255	43.78	ug/Kg	95
49) 1,2-Dichloropropane	7.840	63	326062	47.07	ug/Kg	94
50) Bromodichloromethane	7.907	83	370797	46.92	ug/Kg	92
51) Methyl methacrylate	8.053	41	186677	48.68	ug/Kg	89
52) 2-Chloroethyl vinyl ether	8.466	63	768990	246.23	ug/Kg	96
53) cis-1,3-Dichloropropene	8.551	75	477076	47.07	ug/Kg	99
56) Toluene	8.795	91	1334758	49.83	ug/Kg	96
57) 2-Nitropropane	9.002	41	252906	241.05	ug/Kg	90
58) 4-Methyl-2-pentanone	9.154	43	1026398	238.18	ug/Kg	93
59) trans-1,3-Dichloropropene	9.202	75	368953	48.80	ug/Kg	98
60) Tetrachloroethene	9.202	166	296532	50.93	ug/Kg	96
61) Ethyl methacrylate	9.348	69	311738	48.51	ug/Kg	93
62) 1,1,2-Trichloroethane	9.367	83	191158	45.33	ug/Kg	93
63) Dibromochloromethane	9.555	129	244908	49.26	ug/Kg	99
64) 1,3-Dichloropropane	9.640	76	416639	47.66	ug/Kg	98
65) 1,2-Dibromoethane	9.805	107	220545	47.82	ug/Kg	98
66) 2-hexanone	9.987	43	721556	238.07	ug/Kg	92
67) 1-Chlorohexane	10.285	91	390569	47.40	ug/Kg	91
68) Ethylbenzene	10.340	91	1391727	50.57	ug/Kg	95
69) Chlorobenzene	10.328	112	785778	48.41	ug/Kg	97
70) 1,1,1,2-Tetrachloroethane	10.383	131	276098	51.26	ug/Kg	98
71) m,p-Xylene	10.486	91	2002458	95.97	ug/Kg	95
72) o-Xylene	10.918	91	1100673	51.42	ug/Kg	99
73) Styrene	10.973	104	774709	49.57	ug/Kg	97
74) Bromoform	11.015	173	132734	51.86	ug/Kg	97
75) Isopropylbenzene	11.234	105	1350913	52.29	ug/Kg	97
78) cis-1,4-Dichloro-2-butene	11.575	53	81202	46.13	ug/Kg	93
79) n-Propylbenzene	11.654	91	1415756	45.88	ug/Kg	96
80) Bromobenzene	11.648	156	302825	50.41	ug/Kg	98
81) 1,1,2,2-Tetrachloroethane	11.715	83	283947	44.91	ug/Kg	94
82) 1,3,5-Trimethylbenzene	11.843	105	1141639	50.48	ug/Kg	97
83) 2-Chlorotoluene	11.824	91	1013148	48.23	ug/Kg	98
84) trans-1,4-Dichloro-2-B...	11.891	53	71934	43.26	ug/Kg	93
85) 1,2,3-Trichloropropane	11.861	110	77580	44.33	ug/Kg	97
86) Cyclohexanone	11.916	55	63618	216.60	ug/Kg	90
87) 4-Chlorotoluene	11.995	91	855183	46.31	ug/Kg	98
88) tert-Butylbenzene	12.177	91	721682	51.88	ug/Kg	95
89) 1,2,4-Trimethylbenzene	12.250	105	1069095	49.02	ug/Kg	96
90) Pentachloroethane	12.214	167	185635	54.52	ug/Kg	97
91) sec-Butylbenzene	12.360	105	1457295	50.98	ug/Kg	96

SGS ACCUTEST FA33606

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28316.D
Acq On : 3 May 2016 7:48 pm
Operator : ANGIED
Sample : ECC1133-4 Inst : MSVOA14
Misc : MS33769,VY1144,5.00,,,5,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 04 09:18:12 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration

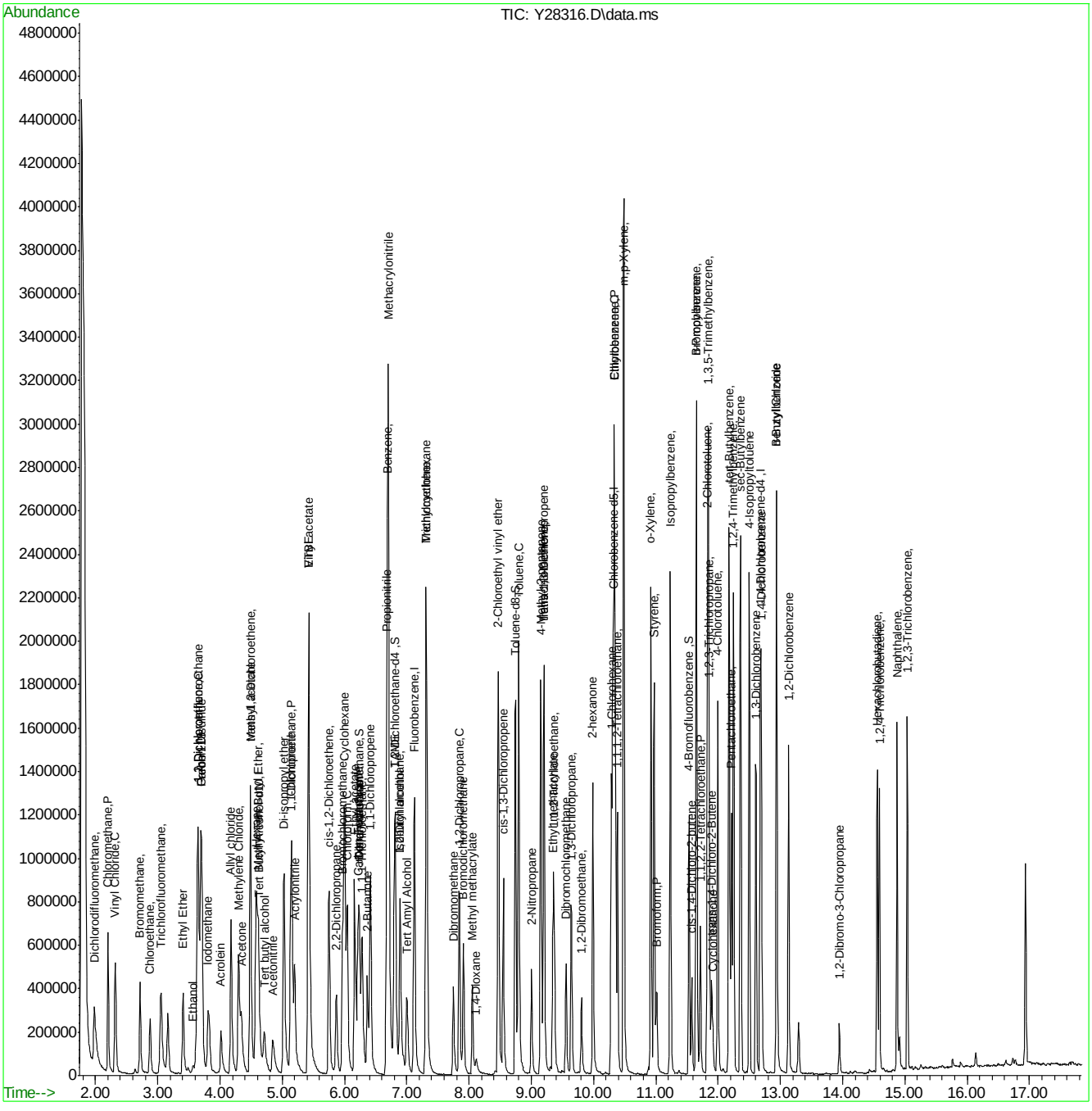
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
92) 4-Isopropyltoluene	12.500	119	1127128	48.86	ug/Kg	98
93) 1,3-Dichlorobenzene	12.603	146	517618	45.54	ug/Kg	100
94) 1,4-Dichlorobenzene	12.694	146	507085	44.04	ug/Kg	97
95) n-Butylbenzene	12.938	92	560612	40.92	ug/Kg	99
96) Benzyl Chloride	12.938	126	107110	45.25	ug/Kg#	50
97) 1,2-Dichlorobenzene	13.132	146	525437	48.26	ug/Kg	98
98) 1,2-Dibromo-3-Chloropr...	13.948	75	55650	45.61	ug/Kg	98
99) Hexachlorobutadiene	14.556	225	185189	46.33	ug/Kg	90
100) 1,2,4-Trichlorobenzene	14.592	180	314702	43.92	ug/Kg	96
101) Naphthalene	14.872	128	898123	50.03	ug/Kg	99
102) 1,2,3-Trichlorobenzene	15.036	180	333112	47.08	ug/Kg	99
104) Ethanol	3.569	45	46806	810.80	ug/Kg	99
105) Acrolein	4.013	56	206612	214.95	ug/Kg	94
106) Tert butyl alcohol	4.713	59	267984	449.43	ug/Kg	90
107) Isobutyl alcohol	6.897	42	129650	886.85	ug/Kg	93
108) Tert Amyl Alcohol	7.000	59	238211	459.31	ug/Kg	95
109) 1,4-Dioxane	8.113	88	57680	921.42	ug/Kg	93

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\050316\
Data File : Y28316.D
Acq On : 3 May 2016 7:48 pm
Operator : ANGIED
Sample : ECC1133-4 Inst : MSVOA14
Misc : MS33769,VY1144,5.00,,,5,,
ALS Vial : 28 Sample Multiplier: 1

Quant Time: May 04 09:18:12 2016
Quant Method : C:\msdchem\1\METHODS\042516APP9-Y.m
Quant Title : SW-846 Method 5035A/8260B
QLast Update : Mon Apr 25 13:07:57 2016
Response via : Initial Calibration



SGS ACCUTEST FA33606

ACCUTEST LABORATORIES SE

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

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

MS VOA6-J ANALYSIS LOG

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

STANDARDS

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

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

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

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

as 04-06 DP

ACCUTEST LABORATORIES SE

DATE:	03-05-04-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ031516.m
CALIB. DATE:	03-15-16
EM VOLTAGE:	1553 V
BFB RESPONSE:	2083312
RUN ID:	VJ5285 / 5286

STANDARDS

BFB:	V20115 V19845-AFA
ICAL/CCV:	V20135 V20131 V20164 V20136 V20141 V20093 V20166 V20119
ISTD/SURR:	V20115
ICV/QC:	V20166 V20109 V20088 V20165
Purge Volume 5.0ml	V20096 V20165 V20121 V20107

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J 0976277	Blk	N/A	Aqu	1	8260		N/A	N/A		✓
J 78	BFB			1						Auto Passed
J 79	CCS237-5			1		SP(8) OP(37) PII(107)				20ml → 5ml ✓
J 80	QS			1		SP(8) OP(37) PII(107)				12.5ml → 40ml ✓
J 81	MB			2						ND
J 82	FA33606-1 MA	1		3			1	N		ND
J 83	-2 MA	1		4			1			ND
J 84	-3 MA	1		5			1			ND
J 85	-5 MA	1		6			1			ND
J 86	-6 MA	1		7			1			ND
J 87	-3MS	2		8		SP(8) OP(37) PII(107)	1			12.5ml → 40ml ✓
J 88	-3MSD	2		8		OP(37) PII(107)	1			✓
J 89	FA33362-1	2		9			1	N		ND
J 90	-2	2		10			1			ND
J 91	-3	2		11			1			✓
J 92	-4	2		12			1			✓
J 93	-5	1		13			1			✓
J 94	FA33614-1	1		14			4			✓
J 95	-2, 20x	1		15			1			✓
J 96	-3, 5x	1		16			4			✓
J 97	FA33537-18, 2x	3		17			1			✓
J 98	-19, 2x	3		18			1			✓
J 99	-21, 1000x	3		19		PII(2)	1			✓
J 300	-22, 500x	2		20			1		100x	
J 01	FA33614-2MS, 20x	1		21		SP(8) PII(107)	1			~~12.5ml~~ DP05-04-16 12.5ml → 40ml
J 02 (DP05-05-16)	" -2MSD, 20x	1		21		Not Injected.	1			
J 02 ~~03~~	CCS237-5	–		22		SP(8) OP(37) PII(107)	N/A	N/A		20ml → 5ml ✓
03 ~~04~~	Blk AFA			23						

* 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

as 04-06 DP

ACCUTEST LABORATORIES SE

DATE:	03-05-~~04~~-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.4 psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ031516.m
CALIB. DATE:	03-15-16
EM VOLTAGE:	1553 V
BFB RESPONSE:	2083312
RUN ID:	VJ5285 / 5286

STANDARDS

BFB:	V20115 V19845-AFA
ICAL/CCV:	V20135 V20131 V20144 V20136 V20141 V20093 V20166 V20119
ISTD/SURR:	V20115
ICV/QC:	V20166 V20109 V20088 V20108
Purge Volume 5.0ml	V20096 V20165 V20121 V20107

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	Cl ?	RR	COMMENTS
J 0976277	Blk	N/A	Aqo	1	8260		N/A	N/A		✓
J 78	BFB			1						Auto Passed
J 79	CCS237-5			1		SP(8) OP(37) PII(107)				20ml→50ml ✓
J 80	95			1		SP(8) OP(37) PII(107)				12.5ml→40ml ✓
J 81	MB			2						ND
J 82	FA33606-1 MA	1		3			1	N		ND
J 83	-2 MA	1		4			1			ND
J 84	-3 MA	1		5			1			ND
J 85	-5 MA	1		6			1			ND
J 86	-6 MA	1		7			1			ND
J 87	-3MS	2		8		SP(8) OP(37) PII(107)	1			12.5ml→40ml ✓
J 88	-3MSD	2		8		OP(37) PII(107)	1			✓
J 89	FA33362-1	2		9			1	N		ND
J 90	-2	2		10			1			ND
J 91	-3	2		11			1			✓
J 92	-4	2		12			1			✓
J 93	-5	1		13			1			✓
J 94	FA33614-1	1		14			4			✓
J 95	-2, 20X	1		15			1			✓
J 96	-3, 5X	1		16			4			✓
J 97	FA33537-18, 2X	3		17			1			✓
J 98	-19, 2X	5		18			1			✓
J 99	-21, 1000X	3		19		PII(2)	1			✓
J 300	-22, 500X	2		20			1		100X	
J 01	FA33614-2MS, 20X	1		21		SP(8) PII(107)	1			~~12.5ml~~ 12.5ml→40ml
J 0P05-05-16 ~~02~~	" -2MSD, 20X	1		21		Not Integrated.	1			
J 02 ~~03~~	ECCS237-5	-		22		SP(8) OP(37) PII(107)	N/A	N/A		20ml→50ml ✓
03 ~~04~~	Blk AFA			23						

* 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

Instrument Run Log VJ5286 page 1 of 1
SGS
303 of 314
ACCUTEST
FA33606
7.7.3
7

ACCUTEST LABORATORIES SE

DATE:	4/25/16
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA14-Y
PURGE PRESSURE:	20 PSI
ANALYST:	AD

MS VOA14-Y ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	042516 APP9-4
CALIB. DATE:	4/25/16
EM VOLTAGE:	1958
BFB RESPONSE:	1822 6 68
RUN ID:	VY 1133

STANDARDS

A	BFB:	.BFB: V20120
	ICAL/CCV:	.ICAL/CCV: V20105,V20084,V20079, .V20076,V20066,V20064
	ISTD/SURR:	.ISTD/SURR: V20030
B	ICV/QC:	.ICV/QC: V20106,V20085,V20080, .V20077,V20067,V20065
	STD A=250ppm=60µl each/24ml	AD
	METHANOL LOT #:	157226

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS
											STD B=250ppm=75µl each/24ml
Y	28091	BFB	–	–	–	–	5	–		–	Avg. passed
Y	92	1CI133-1	–	–	–	–	6	–	SP 104	–	0.1 ml STD A/5ml
Y	93	1CI133-2	–	–	–	–	7	–		–	0.2 ml
Y	94	1CI133-3	–	–	–	–	8	–		–	0.4 ml
Y	95	1CCI133-4	–	–	–	–	9	–		–	1 ml
Y	96	1CI133-5	–	–	–	–	10	–		–	2 ml
Y	97	1CI133-6	–	–	–	–	11	–		–	3 ml
Y	98	1CI133-7	–	–	–	–	12	–		–	4 ml
Y	99	BLK	–	–	–	–	13	–		–	
Y	28100	1CVI133-4	–	–	–	–	14	–		–	1ml STD B/5ml
Y	01	BS	–	–	–	–	15	–		–	" "
Y	02	MB	–	–	–	100	16	–		–	
685 Y	03	FA33364-1	B1223	S	5.57	–	17	PT	NaHSO4	–	
Y	04	-2	B1226	S	5.37	–	18	PT		–	
Y	05	-3	B1229	S	5.01	–	19	PT		–	
Y	06	-4	B1232	S	5.65	–	20	PT		–	
Y	07	-5	B1235	S	5.99	–	21	PT		–	
Y	08	FA33373-1	B1271	S	6.10	–	22	PT		–	
Y	09	-1ms	B1270	S	6.44	–	23	PT		–	1ml STD B added
Y	10	-1msD	B1276	S	6.24	–	24	PT		–	" "
Y	11	FA33364-6	B1238	S	5.35	–	25	PT		–	
Y	12	-7	B1241	S	4.13	–	26	PT		RR2	50X ISTD 3 ↓
Y	13	-8	B1244	S	5.29	–	27	PT		RR	c.o.?
Y	14	-9	B1247	S	0.02	–	28	PT		–	
Y	15	-10	B1250	S	4.60	–	29	PT	Not logged in ↓	–	
Y	16	-11	B1253	S	4.69	–	30	PT ↓		RR2	50X ISTD 3 ↓
Y	17	ECCI133-4	–	–	–	–	31	–		–	1ml STD A/5ml

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

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

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

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

Analyst's Signature: [signature]

msvoa14_y_log.xls NF 09/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1213	FA33366-1	W (NaHSO4)	31.13	35.78	4.65	04/23/16	13:30	RCM	PT	IN
14	-1	M	29.65	34.27	4.62					
15	-1	M	29.72	33.74	4.02					
16	-1	M	29.57	34.42	4.85					
17	-2	W (NaHSO4)	31.20	36.52	5.32					
18	-2	W ↓	31.38	36.02	4.64					
19	-2	M	29.76	33.67	3.91					
20	-2	M	29.53	34.68	5.15		↓			
21	-2	M	29.58	34.65	5.07		13:37			
22	FA33364-1	W (NaHSO4)	31.12	36.92	5.80		13:38			
23	-1	W ↓	31.09	36.66	5.57					
24	-1	M	29.71	35.09	5.38					
25	-2	W (NaHSO4)	31.16	36.83	5.67					
26	-2	W ↓	31.13	36.50	5.37					
27	-2	M	29.63	35.24	5.61					
28	-3	W (NaHSO4)	30.70	35.81	5.11					
29	-3	W ↓	31.10	36.11	5.01					
30	-3	M	29.66	34.75	5.09					
31	-4	W (NaHSO4)	31.08	36.32	5.24					
32	-4	W ↓	31.17	36.82	5.65					
33	-4	M	29.80	35.09	5.29					
34	-5	W (NaHSO4)	30.89	36.89	6.00		↓			
B1235	-5	W ↓	31.25	37.24	5.99	↓	13:52	↓	↓	↓

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1259	FA33365-7	W (NaHSO4)	31.11	37.02	5.91	02/23/14	14:14	DCM	PT	IN
60	-7	M	29.56	33.55	3.99					
61	-6	W (NaHSO4)	31.34	35.80	4.46					
62	-6	W ↓	31.23	36.04	4.81					
63	-6	M	29.80	32.90	3.10					
64	-4	W (NaHSO4)	31.06	37.10	6.04					
65	-4	W ↓	31.36	36.82	5.46					
66	-4	M	29.76	35.57	5.81					
67	-2	W (NaHSO4)	31.32	36.79	5.47					
68	-2	W ↓	31.42	36.13	4.71					
69	-2	M	29.63	33.92	4.29		14:22			
70	FA33373-1	W (NaHSO4)	31.08	37.52	6.44	02/23/14	14:30	DCM	PT	IN
71	-1	W ↓	30.84	36.94	6.10					
72	-1	M	29.80	35.83	6.03					
73	-1	W (NaHSO4)	30.95	37.97	7.02					
74	-1	W ↓	31.06	38.26	7.20					
75	-1	M	29.82	37.28	7.46					
76	-1	W (NaHSO4)	31.15	37.39	6.24					
77	-1	W ↓	31.11	37.91	6.80					
78	-1	M	29.61	35.95	6.34					
B12 79	-4	W (NaHSO4)	31.06	37.84	6.78					
DCM 02/23/14 80	-4	W ↓	31.00	38.67	7.67					
B12 81	-4	M	29.83	36.46	6.63		14:38			

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1236	-5	M	29.72	35.44	5.72	04/23/16	13:53	[illegible]	PT	IN
37	-6	W (NaHSO4)	31.04	35.90	4.86					
38	-6	W ↓	31.09	36.44	5.35					
39	-6	M	29.77	34.92	5.15					
40	~~-6~~ 7	W (NaHSO4)	31.09	34.94	3.85					
41	-7	W ↓	31.18	35.31	4.13					
42	-7	M	29.74	33.84	4.10					
43	-8	W (NaHSO4)	31.20	36.58	5.38					31.20
44	-8	W ↓	31.30	36.59	5.29					
45	-8	M	29.77	35.22	5.45					
46	-9	W (NaHSO4)	31.61	31.62	0.01					TB
47	-9	W ↓	31.62	31.64	0.02					↓
48	-9	M	29.56	29.54	-0.02					
49	-10	W (NaHSO4)	31.05	34.94	3.89					
50	-10	W ↓	31.09	35.69	4.60					
51	-10	M	29.67	34.29	4.62					
52	-11	W (NaHSO4)	31.18	35.57	4.39					
53	-11	W ↓	31.09	35.78	4.69		↓			
54	-11	M	29.65	34.04	4.39		14:06			
55	MC45430-1	M 10mL	36.83	53.08	16.97		14:07			10mL
56	-2	M	36.45	55.54	19.09		↓			↓
57	-3	M ↓	37.49	55.52	18.03		14:10			
B12 68	FA33365 7	W(NaHSO4)	31.21	36.56	5.35	↓	14:12	↓	↓	↓

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES SE

DATE:	5/3/16
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA14-Y
PURGE PRESSURE:	20 PSI
ANALYST:	AD

MS VOA14-Y ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	042516APP9-4
CALIB. DATE:	4/25/16
EM VOLTAGE:	1953
BFB RESPONSE:	167/497
RUN ID:	VY 1144 | 45

STANDARDS

	BFB:	BFB: V20120
A	ICAL/CCV:	ICAL/CCV: V20149,V20159,V20151, V20147,V20145,V20143
	ISTD/SURR:	ISTD/SURR: V20161
B	ICV/QC:	ICV/QC: V20150,V20160,V20152, V20148,V20146,V20144
	STD A=250ppm=10µl each/24ml AD	
	METHANOL LOT #:	157226

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS STD B=250ppm=75l each/24ml
Y	28289-92	Cond. Run	—	—	—	—	1-4	—		—	
Y	93	BFB	—	—	—	—	5	—		—	Avg. passed
Y	94	CC1133-4	—	—	—	—	6	—		—	1ml STD A/5ml
Y	95	BS	—	—	—	—	7	—		—	1ml STD B/5ml
Y	96	MB	—	—	—	100	8	—		—	
769 Y	97	FA33593-6	B1627 SD AD	S	0.02	—	9	PT	Fridge Blanks	—	
Y	98	-7	B1651	S	0.07	—	10	PT		—	
Y	99	-8	B1653	S	0.00	—	11	PT		—	
Y	28300	-9	B1656	S	0.02	—	12	PT		—	
772 Y	01	FA33606-4	B1661	S	4.64	—	13	EN	FS VY1145 8260C	—	
Y	02	-4,50x	B1662	S	5.63	100	14	EN		—	
Y	03	-4ms	—	S	4.00	—	15	—		—	1ml STD B added
Y	04	-4msd	—	S	4.17	—	16	—		—	" "
769 Y	05	FA33573-1,50x	B1608	S	5.23	100	17	PT OOH	MP31 Not logged in/cancelled	RR	500x
Y	06	-2,50x	B1611	S	5.81	100	18	PT OOH		—	
Y	07	-3	B1614	S	5.91	—	19	PT OOH		—	
Y	08	-1,500x	B1608	S	5.23	10	20	PT OOH	90.2 MeOH added	—	
Y	09	-3ms	—	S	4.42	—	21	—		—	1ml STD B added
Y	10	-3msd	—	S	4.49	—	22	—		—	" "
Y	11	FA33617-1	B1663	S	5.52	—	23	PT		—	
Y	12	FA33577-1,50x	B1619	S	5.10	100	24	PT OOH	OP31 MP79 (below cal)	RR	500x
Y	13	-1,500x	B1619	S	5.10	10	25	PT OOH	90.2 MeOH added	—	
Y	14	-3	B1624	S	5.63	—	26	PT OOH		RR	50x
Y	15	-3,50x	B1625	S	6.10	100	27	PT OOH	MP17	—	
Y	16	ECC1133-4	—	—	—	—	28	—		—	1ml STD A/5ml
Y	17-20	Cond. Run	—	—	—	—	1-4	—	AD 5/4/16	—	

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

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

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

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

Analyst's Signature:

msvoa14_y_log.xls NF 09/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1650	FA33593-6	W	30.82	30.84	0.02	5/3/16	8:36	CG	PT	IN UR blank
51	-7	W	30.87	30.94	0.07	↓	↓	↓	↓	↓
52	-7	W	30.72	—	—	↓	↓	↓	↓	vial broke
53	-8	W	30.79	30.79	0.00	↓	↓	↓	↓	
54	-8	W	30.80	30.82	0.02	↓	↓	↓	↓	
55	-9	W	30.70	30.71	0.01	↓	↓	↓	↓	
56	-9	W	30.83	30.85	0.02	↓	↓	↓	↓	↓
57	JC19023-1	W Bot 1	—	—	5.34	5/3/16	8:48	SH	5030A	OOH 10mL F.K.
58	2	↓ Bot 1	—	—	4.96	↓	↓	↓	↓	↓
59	4	↓ Bot 1	—	—	5.12	↓	↓	↓	↓	↓
60	FA33606-4	W (AC2481)	—	—	5.26	5/3/16	10:53	CG	EN	IN, FS
61	-4	W ↓	—	—	4.64	↓	↓	↓	↓	↓
62	-4	M (AC2456)	—	—	5.63	↓	11:00	↓	↓	↓
63	FA33617-1	W	30.88	36.40	5.52	5/3/16	CG 5/4/16 ~~5:29~~	CG	PT	IN
64	-1	W	30.89	36.28	5.39	↓	↓	↓	↓	↓
65	-1	M	29.28	34.03	4.75	↓	15:31	↓	↓	↓
66										
67										
68										
69										
70										
71										
B1672										

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

Instrument Run Log VY1144 page 2 of 3

SGS ACCUTEST FA33606

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ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1604	FA33504-4	M	29.63	34.36	4.73	4/30/16	15:04	AD	PT	Preserved
05	FA33573-1	W	30.85	36.83	5.98	5/2/16	10:42	CG	PT	OOH
06	-1	W	30.89	36.51	5.62					
07	-1	M	29.65	35.56	5.91					
08	-1	M	29.98	35.21	5.23		10:44			
09	-2	W	30.97	38.18	7.21		10:57			
10	-2	W	31.00	37.44	6.44					
11	-2	M	30.04	35.85	5.81					
12	-2	M	29.62	36.09	6.47					
13	-3	W	30.91	36.23	5.32					
14	-3	W	30.80	36.71	5.91					
15	-3	M	29.90	35.22	5.32					
16	-3	M	29.48	34.92	5.44					
17	FA33577-1	W	30.98	37.08	6.10		11:16			
18	-1	W	31.03	36.91	5.88					
19	-1	M	29.54	34.64	5.10					
20	-2	W	31.30	37.16	5.86					
21	-2	W	31.07	37.17	6.10					
22	-2	M	29.92	35.92	6.00					
23	-3	W	30.97	36.85	5.88					
24	-3	W	30.92	36.55	5.63					
25	-3	M	29.67	35.77	6.10		11:22			
B1626	FA33593-6	W	30.65	30.67	0.02	6/3/16	8:35	CG	PT	IN VR Blank

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

ACCUTEST LABORATORIES SE

DATE:	5/3/16
COLUMN TYPE:	RTX VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA14-Y
PURGE PRESSURE:	20 PSI
ANALYST:	AD

MS VOA14-Y ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	042516APP9-4
CALIB. DATE:	4/25/16
EM VOLTAGE:	1953
BFB RESPONSE:	1671497
RUN ID:	VY 1144 145

STANDARDS

A	BFB:	.BFB: V20120
	ICAL/CCV:	.ICAL/CCV: V20149,V20159,V20151, .V20147,V20145,V20143
	ISTD/SURR:	.ISTD/SURR: V20161
B	ICV/QC:	.ICV/QC: V20150,V20160,V20152, .V20148,V20146,V20144
	STD A=250ppm=100l each/24ml	AD
	METHANOL LOT #:	157226

	DATA FILE	SAMPLE ID	Vial #	MATRIX	SAMPLE AMT.	MeOH ALIQ.	ALS POS.	PREP METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	RR	COMMENTS STD B=250ppm=75l each/24ml
Y	28289-92	Cond. Run	—	—	—	—	1-4	—		—	
Y	93	BFB	—	—	—	—	5	—		—	Avg. passed
Y	94	CC1133-4	—	—	—	—	6	—		—	1ml STD A/5ml
Y	95	BS	—	—	—	—	7	—		—	1ml STD B/5ml
Y	96	MB	—	—	—	100	8	—		—	
7/29 Y	97	FA33593-6	B16277 SD AD 5/3/16	S	0.02	—	9	PT	Fridge Blanks	—	
Y	98	-7	B16651	S	0.07	—	10	PT		—	
Y	99	-8	B16653	S	0.00	—	11	PT		—	
Y	28300	-9	B16656	S	0.02	—	12	PT		—	
7/12 Y	01	FA33606-4	B16661	S	4.64	—	13	EN	FS VY1145 8260C	—	
Y	02	-4,50x	B16662	S	5.63	100	14	EN		—	
Y	03	-4ms	—	S	4.00	—	15	—		—	1ml STD B added
Y	04	-4msd	—	S	4.17	—	16	—		—	" "
7/19 Y	05	FA33573-1,50x	B16608	S	5.23	100	17	PT OOH	MP31 Not logged in/cancelled	RR	500x
Y	06	-2,50x	B16611	S	5.81	100	18	PT OOH		—	
Y	07	-3	B16614	S	5.91	—	19	PT OOH		—	
Y	08	-1,500x	B16608	S	5.23	10	20	PT OOH	90.2 MeOH added	—	
Y	09	-3ms	—	S	4.42	—	21	—		—	1ml STD B added
Y	10	-3msd	—	S	4.49	—	22	—		—	" "
Y	11	FA33617-1	B16663	S	5.52	—	23	PT		—	
Y	12	FA33577-1,50x	B16619	S	5.10	100	24	PT OOH	OP31 MP79 (below cal)	RR	500x
Y	13	-1,500x	B16619	S	5.10	10	25	PT OOH	90.2 MeOH added	—	
Y	14	-3	B16624	S	5.63	—	26	PT OOH		RR	50x
Y	15	-3,50x	B16625	S	6.10	100	27	PT OOH	MP17	—	
Y	16	ECC1133-4	—	—	—	—	28	—		—	1ml STD A/5ml
Y	17-20	Cond. Run	—	—	—	—	1-4	—	AD 5/4/16	—	

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

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

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

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

Analyst's Signature:

msvoa14_y_log.xls NF 09/11

ACCUTEST SOUTHEAST

5035A SOIL PREP LOG

BALANCE ID: NAV 4

Serial #	Sample #	Vial Type or Vial Lot #	Tare Wt gram	Total Wt gram	Sample Wt gram	Date	Time	Initials	Container Type *	Comments
B1650	FA33593-6	W	30.82	30.84	0.02	5/3/16	8:36	CG	PT	IN VR blank
51	-7	W	30.87	30.94	0.07	↓	↓	↓	↓	↓
52	-7	W	30.72	—	—	↓	↓	↓	↓	vial broke
53	-8	W	30.79	30.79	0.00	↓	↓	↓	↓	↓
54	-8	W	30.80	30.82	0.02	↓	↓	↓	↓	↓
55	-9	W	30.70	30.71	0.01	↓	↓	↓	↓	↓
56	-9	W	30.83	30.85	0.02	↓	↓	↓	↓	↓
57	JC19023-1	W Bot1	—		5.34	5/3/16	8:48	SH	5030A	OOH 10mL F.K.
58	2	↓ Bot1	—		4.96	↓	↓	↓	↓	↓
59	4	↓ Bot 1	—		5.12	↓	↓	↓	↓	↓
60	FA33606-4	W (AC2481)	—	—	5.26	5/3/16	10:53	CG	EN	IN, FS
61	-4	W ↓	—	—	4.64	↓	↓	↓	↓	↓
62	-4	M (AC2456)	—	—	5.63	↓	11:00	↓	↓	↓
63	FA33617-1	W	30.88	36.40	5.52	5/3/16	CG 5/4/16 ~~SB~~ 8:29	CG	PT	IN
64	-1	W	30.89	36.28	5.39	↓	↓	↓	↓	↓
65	-1	M	29.28	34.03	4.75	↓	15:31	↓	↓	↓
66										
67										
68										
69										
70										
71										
B1672										

Container Type: PT for pre-tared vials (field kits): EN for Encore or similar type: 5030A for samples collected in jars or bulk containers: SL for core sleeve

Comment: N/O for no odor: S/O for slight odor: OOH for Out of Hold

Encore Comment: C for sampler incorrectly capped: P for plunger not locked: F for sampler not completely filled

5035 soil prep log NAV 4.xls NF rev 08/11

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FA33606
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: FA33606-4 **Analyzed:** 16-MAY-16 by LJ **Method:** SM19 2540G
ClientID: RA-18 (12.5-13.5)

Wet Weight (Total)	8.47	g
Tare Weight	1.02	g
Dry Weight (Total)	6.84	g
Solids, Percent	78.1	%