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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: FA35362

Sampling Dates: 06/27/16 - 07/12/16

Report to:

Anderson, Mulholland & Associates
2700 Westchester Avenue Suite 417
Purchase, NY 10577
roreilly@amaiconsult.com; ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: 243

NELAP ACCREDITED TNI LABORATORY

Norm Farmer
Technical Director

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Client Service contact: Heather Wandrey 407-425-6700

Certifications: FL (E83510), LA (03051), KS (E-10327), IA (366), IL (200063), NC (573), NJ (FL002), SC (96038001) DoD ELAP (L-A-B L2229), CA (2937), TX (T104704404), PA (68-03573), VA (460177), AK, AR, GA, KY, MA, NV, OK, UT, WA

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Test results relate only to samples analyzed.

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SGS Accutest

Sample Summary

Anderson, Mulholland & Associates

Job No: FA35362

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FA35362-1	07/08/16	10:45	TT	07/13/16	AQ	Ground Water	OSGP1-GWS
FA35362-2	07/08/16	14:00	TT	07/13/16	AQ	Ground Water	OSGP1-GWD
FA35362-3	07/11/16	10:55	TT	07/13/16	AQ	Ground Water	OSGP2-GWS
FA35362-4	07/11/16	13:55	TT	07/13/16	AQ	Ground Water	OSGP7-GWD
FA35362-5	07/12/16	09:50	TT	07/13/16	AQ	Equipment Blank	BPEB-8
FA35362-6	07/08/16	12:30	TT	07/13/16	AQ	Equipment Blank	BPEB-6
FA35362-7	07/11/16	12:00	TT	07/13/16	AQ	Equipment Blank	BPEB-7
FA35362-8	06/27/16	07:30	TT	07/13/16	AQ	Trip Blank Water	TB071216

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson, Mulholland & Associates **Job No:** FA35362

Site: BMSMC, Building 5 Area, Humacao, PR **Report Date:** 7/14/2016 3:59:07 PM

7 Sample(s), 1 Trip Blank(s) were collected on/between 06/27/2016 and 07/12/2016 and were received at SGS Accutest Southeast (SASE) on 07/13/2016 properly preserved, at 2.9 Deg. C and intact. These Samples received an SASE job number of FA35362. 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:** VJ5371

All method blanks for this batch meet method specific criteria.

Sample(s) FA35362-1MS, FA35362-1MSD were used as the QC samples indicated.

FA35362-8: Sample received outside the holding time. The sample is a Trip Blank.

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

Narrative prepared by:

_____ Date: July 14, 2016

Kim Benham, Client Services (signature on file)

Manual Integration Summary

Lab Sample ID	Analysis Type	File ID	Manual
FA35362-1MS	MSVOA	J0978040.D	Ethyl Alcohol, Trichlorofluoromethane
FA35362-1MSD	MSVOA	J0978041.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5368-IC5368	MSVOA	J0977971.D	1,2-Dichlorotrifluoroethane, 2,2-Dichloropropane, 2-Butanone (MEK), Acetone, Acrylonitrile, Allyl Chloride, Carbon Tetrachloride, Chloroethane, Cyclohexanone, Dichlorodifluoromethane, Methyl Methacrylate, Tetrahydrofuran, Trichlorofluoromethane, Vinyl Acetate
VJ5368-IC5368	MSVOA	J0977972.D	Carbon Tetrachloride, Cyclohexanone, Ethyl Alcohol, Tetrahydrofuran, Trichlorofluoromethane
VJ5368-IC5368	MSVOA	J0977973.D	Ethyl Alcohol, Trichlorofluoromethane
VJ5368-IC5368	MSVOA	J0977974.D	Ethyl Alcohol, Trichlorofluoromethane
VJ5368-IC5368	MSVOA	J0977976.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5368-IC5368	MSVOA	J0977977.D	Carbon Tetrachloride, Trichlorofluoromethane
VJ5368-ICC5368	MSVOA	J0977975.D	Carbon Tetrachloride, Ethyl Alcohol, Trichlorofluoromethane
VJ5368-ICV5368	MSVOA	J0977979.D	Ethyl Alcohol, Trichlorofluoromethane
VJ5370-CC5368	MSVOA	J0978029.D	Ethyl Alcohol, Trichlorofluoromethane
VJ5371-BS	MSVOA	J0978030.D	Ethyl Alcohol, Trichlorofluoromethane

12 Manual Integrations were found for FA35362

Summary of Hits

Job Number: FA35362
Account: Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Collected: 06/27/16 thru 07/12/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
FA35362-1	**OSGP1-GWS**					
Methyl Tert Butyl Ether		10.1	1.0	0.20	ug/l	SW846 8260C
FA35362-2	**OSGP1-GWD**					
Benzene		0.28 J	1.0	0.20	ug/l	SW846 8260C
Methyl Tert Butyl Ether		9.4	1.0	0.20	ug/l	SW846 8260C
FA35362-3	**OSGP2-GWS**					
Methyl Tert Butyl Ether		6.8	1.0	0.20	ug/l	SW846 8260C
FA35362-4	**OSGP7-GWD**					
No hits reported in this sample.						
FA35362-5	**BPEB-8**					
No hits reported in this sample.						
FA35362-6	**BPEB-6**					
No hits reported in this sample.						
FA35362-7	**BPEB-7**					
No hits reported in this sample.						
FA35362-8	**TB071216**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP1-GWS		
Lab Sample ID:	FA35362-1	**Date Sampled:**	07/08/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
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	J0978032.D	1	07/14/16	DP	n/a	n/a	VJ5371
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.1	1.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		83-118%
17060-07-0	1,2-Dichloroethane-D4	107%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	109%		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:	OSGP1-GWD		
Lab Sample ID:	FA35362-2	**Date Sampled:**	07/08/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
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	J0978033.D	1	07/14/16	DP	n/a	n/a	VJ5371
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.28	1.0	0.20	ug/l	J
1634-04-4	Methyl Tert Butyl Ether	9.4	1.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	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	104%		79-125%
2037-26-5	Toluene-D8	101%		85-112%
460-00-4	4-Bromofluorobenzene	109%		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:	OSGP2-GWS		
Lab Sample ID:	FA35362-3	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
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	J0978034.D	1	07/14/16	DP	n/a	n/a	VJ5371
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.8	1.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	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	108%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

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

SGS Accutest

Report of Analysis

Client Sample ID:	OSGP7-GWD		
Lab Sample ID:	FA35362-4	**Date Sampled:**	07/11/16
Matrix:	AQ - Ground Water	**Date Received:**	07/13/16
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	J0978035.D	1	07/14/16	DP	n/a	n/a	VJ5371
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	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	107%		79-125%
2037-26-5	Toluene-D8	104%		85-112%
460-00-4	4-Bromofluorobenzene	112%		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:	BPEB-8		
Lab Sample ID:	FA35362-5	**Date Sampled:**	07/12/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/13/16
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	J0978036.D	1	07/14/16	DP	n/a	n/a	VJ5371
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	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	109%		79-125%
2037-26-5	Toluene-D8	100%		85-112%
460-00-4	4-Bromofluorobenzene	113%		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:	BPEB-6		
Lab Sample ID:	FA35362-6	**Date Sampled:**	07/08/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/13/16
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	J0978037.D	1	07/14/16	DP	n/a	n/a	VJ5371
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	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	109%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	112%		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:	BPEB-7		
Lab Sample ID:	FA35362-7	**Date Sampled:**	07/11/16
Matrix:	AQ - Equipment Blank	**Date Received:**	07/13/16
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	J0978038.D	1	07/14/16	DP	n/a	n/a	VJ5371
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	109%		79-125%
2037-26-5	Toluene-D8	102%		85-112%
460-00-4	4-Bromofluorobenzene	110%		83-118%

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

SGS Accutest

Report of Analysis

Client Sample ID:	TB071216		
Lab Sample ID:	FA35362-8	**Date Sampled:**	06/27/16
Matrix:	AQ - Trip Blank Water	**Date Received:**	07/13/16
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]	J0978039.D	1	07/14/16	DP	n/a	n/a	VJ5371
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		83-118%
17060-07-0	1,2-Dichloroethane-D4	111%		79-125%
2037-26-5	Toluene-D8	103%		85-112%
460-00-4	4-Bromofluorobenzene	112%		83-118%

(a) Sample received outside the holding time.

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

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

FA35362 PAGE 1 OF 1

FL

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

809960562799

Bottle Order Control #

Accutest Quote #

Accutest Job # Get from NJ

Client / Reporting Information

Company Name: Anderson Mulholland & Associates
Street Address: 2700 Westchester Avenue, Suite 417
City: Purchase State: NY Zip: 10577
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 Fax #:
Sampler(s) Name(s): N. Rivera, R. Stuart, R. O'Reilly, T. Taylor Phone #:

Project Information

Project Name: BMSMC Phase 2A Release Assessment
Street:
City: Humacao State: PR
Project #: 021
Client Purchase Order #:
Project Manager: Terry Taylor

Billing Information (if different from Report to)

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

Requested Analysis (see TEST CODE sheet)

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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	8260C: Benzene, MTBE, and tert-Amyl Alcohol ONLY	LAB USE ONLY
1	OSGP1 - GWS 7-12-16		7-8-16	1045	TT	GW	3	3								X	
2	~~OSGP~~ - GWD OSGP1-GWD		7-8-16	1400	TT	GW	3	3								X	
3	OSGP2 - GWS		7-8-16	1055	TT	GW	3	3								X	
4	OSGP7 - GWD		7-11-16	1355	TT	GW	3	3								X	
5	BPEB-8		7-12-16	0950	TT	EB	3	3								X	
6	BPEB-6		7-8-16	1230	TT	EB	3	3								X	
7	BPEB-7		7-11-16	1200	TT	EB	3	3								X	
8	TB071216		6-27-16	0730		TB	2	2								X	

Turnaround Time (Business days)

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

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable Information

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

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

Comments / Special Instructions

Only report Benzene, MTBE, and tert-Amyl Alcohol

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]	7-12-16 1700	1 FX	2 FX		2 [signature] 7/13/16 930
3		3	4		4
Relinquished by: 5	Date Time:	Received By: 6	Custody Seal # 265 ☐ Intact ☐ Not Intact	Preserved where applicable ☐	On Ice ☐ 1 Cooler Temp. 2.9

FA35362: Chain of Custody
Page 1 of 3

ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: FA35362 CLIENT: Anderson Mulholland PROJECT: BMSMC Phase 2A

DATE/TIME RECEIVED: 7/13/16 930 {MM/DD/YY 24:00} NUMBER OF COOLERS RECEIVED: 1

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

AIRBILL NUMBERS: 8099 6056 2799

COOLER INFORMATION

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

TRIP BLANK INFORMATION

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

MISC. INFORMATION

NUMBER OF ENCORES ? 25-GRAM_____ 5-GRAM_____

NUMBER OF 5035 FIELD KITS ? _____

NUMBER OF LAB FILTERED METALS ? _____

TEMPERATURE INFORMATION

- [ ] IR THERM ID 1 CORR. FACTOR +0.0
- [ ] OBSERVED TEMPS: 2.9
- [ ] CORRECTED TEMPS: 2.9 (USED FOR LIMS)

SAMPLE INFORMATION

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

{APPLICABLE TO EPA 600 SERIES OR NORTH CAROLINA ORGANICS}

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

SUMMARY OF COMMENTS:

TECHNICIAN SIGNATURE/DATE 7/13/16 REVIEWER SIGNATURE/DATE 7-13-16

NF 11/15 RECEIPTLOG040416.xls

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FA35362: Chain of Custody
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FedEx Express *International Air Waybill*

Origin Copy

1 From

Date 07 12 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 Suite C-15

City Orlando — State/Province FL

Country USA — ZIP/Postal Code 32811

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

3 Shipment Information

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

Total Packages (Shipper's Load and Count/SLAC) 1 — Total Weight 13 lbs ☐ kg — DIM 14 x 12 x 11 in ☐ cm ☐

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

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

Total Declared Value for Carriage

Total Value for Customs (Specify Currency) $0

4 Express Package Service — *Packages up to 150 lbs. / 68 kg. For packages over 150 lbs. 68 kg, use the FedEx Expanded Service Intl. Air Waybill.*

1 ☒ FedEx Intl. Priority — 6 ☐ FedEx Intl. First (Available to select locations.)

☐ 3 ☐ FedEx Intl. Economy (FedEx Envelope and FedEx Pak rate not available.)

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

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

6 ☐ FedEx Envelope — 2 ☐ FedEx Pak — 3 ☐ FedEx Box — 4 ☐ FedEx Tube

5 ☒ Other ____ PW ☐ FedEx 10kg Box* PX ☐ FedEx 25kg Box*

6 Special Handling

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

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

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

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

FedEx Acct. No. 3620-6923-6 — Total Transportation

Credit Card Exp. Date — Specify Currency

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

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

FedEx Acct. No.

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

BMS RA P2A

9 Required Signature

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

Sender's Signature: [signature]

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

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

Recipient's Signature:

FedEx Tracking Number 8099 6056 2799 0402

568

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

Form ID No. RRDA 12/15

Origin Station ID	Country Code/Destination Station ID	URSA Routing	Handling Units
NRRBC	TIXA	XHTIXA	Total Volume (cm)

Received At: 1 ☐ Reg. Stop 2 ☐ On-Call Stop 3 ☐ Drop Box 4 ☒ World Service Center 5 ☐ Station — Forms Attached: ☐ CI ☐ CO

Base Charges — Declared Val. Chrg. — Other — COD/DPA — Credit Card Auth.

Credit Exp. 277740 — Audit Emp. # — Date 7/12 — Time 1330 — Del. Courier Emp. # — Date — Time

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

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FA35362: 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: FA35362
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5371-MB	J0978031.D	1	07/14/16	DP	n/a	n/a	VJ5371

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

FA35362-1, FA35362-2, FA35362-3, FA35362-4, FA35362-5, FA35362-6, FA35362-7, FA35362-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.20	ug/l	
75-85-4	Tert-Amyl Alcohol	ND	20	6.0	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	102%	83-118%
17060-07-0	1,2-Dichloroethane-D4	107%	79-125%
2037-26-5	Toluene-D8	103%	85-112%
460-00-4	4-Bromofluorobenzene	105%	83-118%

Blank Spike Summary

Job Number: FA35362
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VJ5371-BS	J0978030.D	1	07/14/16	DP	n/a	n/a	VJ5371

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

FA35362-1, FA35362-2, FA35362-3, FA35362-4, FA35362-5, FA35362-6, FA35362-7, FA35362-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	25.8	103	81-122
1634-04-4	Methyl Tert Butyl Ether	25	22.4	90	72-117
75-85-4	Tert-Amyl Alcohol	250	206	82	65-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	83-118%
17060-07-0	1,2-Dichloroethane-D4	105%	79-125%
2037-26-5	Toluene-D8	105%	85-112%
460-00-4	4-Bromofluorobenzene	107%	83-118%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FA35362
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FA35362-1MS	J0978040.D	1	07/14/16	DP	n/a	n/a	VJ5371
FA35362-1MSD	J0978041.D	1	07/14/16	DP	n/a	n/a	VJ5371
FA35362-1	J0978032.D	1	07/14/16	DP	n/a	n/a	VJ5371

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

FA35362-1, FA35362-2, FA35362-3, FA35362-4, FA35362-5, FA35362-6, FA35362-7, FA35362-8

CAS No.	Compound	FA35362-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	28.1	112	25	27.4	110	3	81-122/14
1634-04-4	Methyl Tert Butyl Ether	10.1		25	34.0	96	25	33.5	94	1	72-117/14
75-85-4	Tert-Amyl Alcohol	ND		250	203	81	250	202	81	0	65-124/23

CAS No.	Surrogate Recoveries	MS	MSD	FA35362-1	Limits
1868-53-7	Dibromofluoromethane	101%	101%	103%	83-118%
17060-07-0	1,2-Dichloroethane-D4	109%	108%	107%	79-125%
2037-26-5	Toluene-D8	103%	103%	102%	85-112%
460-00-4	4-Bromofluorobenzene	108%	108%	109%	83-118%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FA35362
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5368-BFB
Lab File ID: J0977969.D
Instrument ID: GCMSJ
Injection Date: 07/12/16
Injection Time: 07:59

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	102742	20.7		Pass
75	30.0 - 60.0% of mass 95	247016	49.7		Pass
95	Base peak, 100% relative abundance	496607	100.0		Pass
96	5.0 - 9.0% of mass 95	33543	6.75		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	396800	79.9		Pass
175	5.0 - 9.0% of mass 174	30485	6.14	(7.68) [a]	Pass
176	95.0 - 101.0% of mass 174	398867	80.3	(100.5) [a]	Pass
177	5.0 - 9.0% of mass 176	29968	6.03	(7.51) [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
VJ5368-IC5368	J0977971.D	07/12/16	09:01	01:02	Initial cal 1
VJ5368-IC5368	J0977972.D	07/12/16	09:24	01:25	Initial cal 2
VJ5368-IC5368	J0977973.D	07/12/16	09:47	01:48	Initial cal 3
VJ5368-IC5368	J0977974.D	07/12/16	10:10	02:11	Initial cal 4
VJ5368-ICC5368	J0977975.D	07/12/16	10:33	02:34	Initial cal 5
VJ5368-IC5368	J0977976.D	07/12/16	10:56	02:57	Initial cal 6
VJ5368-IC5368	J0977977.D	07/12/16	11:20	03:21	Initial cal 7
VJ5368-ICV5368	J0977979.D	07/12/16	12:47	04:48	Initial cal verification 5
VJ5368-BS	J0977980.D	07/12/16	13:28	05:29	Blank Spike
VJ5368-MB	J0977981.D	07/12/16	13:52	05:53	Method Blank
ZZZZZZ	J0977982.D	07/12/16	14:15	06:16	(unrelated sample)
ZZZZZZ	J0977983.D	07/12/16	14:38	06:39	(unrelated sample)
ZZZZZZ	J0977984.D	07/12/16	15:02	07:03	(unrelated sample)
ZZZZZZ	J0977988.D	07/12/16	16:34	08:35	(unrelated sample)
ZZZZZZ	J0977989.D	07/12/16	16:58	08:59	(unrelated sample)
ZZZZZZ	J0977990.D	07/12/16	17:21	09:22	(unrelated sample)
FA35334-7	J0977991.D	07/12/16	17:44	09:45	(used for QC only; not part of job FA35362)
ZZZZZZ	J0977992.D	07/12/16	18:07	10:08	(unrelated sample)
ZZZZZZ	J0977993.D	07/12/16	18:30	10:31	(unrelated sample)
ZZZZZZ	J0977994.D	07/12/16	18:53	10:54	(unrelated sample)
FA35334-7MS	J0977995.D	07/12/16	19:16	11:17	Matrix Spike
FA35334-7MSD	J0977996.D	07/12/16	19:39	11:40	Matrix Spike Duplicate
VJ5368-ECC5368	J0977997.D	07/12/16	20:02	12:03	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FA35362
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5370-BFB
Lab File ID: J0978028.D
Instrument ID: GCMSJ
Injection Date: 07/14/16
Injection Time: 08:13

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	160365	24.1		Pass
75	30.0 - 60.0% of mass 95	350913	52.6		Pass
95	Base peak, 100% relative abundance	666575	100.0		Pass
96	5.0 - 9.0% of mass 95	48157	7.22		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 100.0% of mass 95	432768	64.9		Pass
175	5.0 - 9.0% of mass 174	33275	4.99	(7.69) [a]	Pass
176	95.0 - 101.0% of mass 174	435200	65.3	(100.6) [a]	Pass
177	5.0 - 9.0% of mass 176	28811	4.32	(6.62) [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
VJ5370-CC5368	J0978029.D	07/14/16	09:00	00:47	Continuing cal 5
VJ5371-BS	J0978030.D	07/14/16	09:43	01:30	Blank Spike
VJ5370-BS	J0978030.D	07/14/16	09:43	01:30	Blank Spike
VJ5371-MB	J0978031.D	07/14/16	10:06	01:53	Method Blank
VJ5370-MB	J0978031.D	07/14/16	10:06	01:53	Method Blank
FA35362-1	J0978032.D	07/14/16	10:36	02:23	OSGP1-GWS
FA35362-2	J0978033.D	07/14/16	10:59	02:46	OSGP1-GWD
FA35362-3	J0978034.D	07/14/16	11:22	03:09	OSGP2-GWS
FA35362-4	J0978035.D	07/14/16	11:45	03:32	OSGP7-GWD
FA35362-5	J0978036.D	07/14/16	12:08	03:55	BPEB-8
FA35362-6	J0978037.D	07/14/16	12:31	04:18	BPEB-6
FA35362-7	J0978038.D	07/14/16	12:54	04:41	BPEB-7
FA35362-8	J0978039.D	07/14/16	13:17	05:04	TB071216
FA35362-1MS	J0978040.D	07/14/16	13:40	05:27	Matrix Spike
FA35362-1MSD	J0978041.D	07/14/16	14:03	05:50	Matrix Spike Duplicate
ZZZZZZ	J0978042.D	07/14/16	14:26	06:13	(unrelated sample)
ZZZZZZ	J0978043.D	07/14/16	14:49	06:36	(unrelated sample)
ZZZZZZ	J0978044.D	07/14/16	15:12	06:59	(unrelated sample)
ZZZZZZ	J0978045.D	07/14/16	15:35	07:22	(unrelated sample)
ZZZZZZ	J0978046.D	07/14/16	15:58	07:45	(unrelated sample)
ZZZZZZ	J0978047.D	07/14/16	16:22	08:09	(unrelated sample)
FA35372-1	J0978048.D	07/14/16	16:45	08:32	(used for QC only; not part of job FA35362)
ZZZZZZ	J0978049.D	07/14/16	17:08	08:55	(unrelated sample)
ZZZZZZ	J0978050.D	07/14/16	17:31	09:18	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: FA35362
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Sample: VJ5370-BFB
Lab File ID: J0978028.D
Instrument ID: GCMSJ
Injection Date: 07/14/16
Injection Time: 08:13

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	J0978051.D	07/14/16	17:54	09:41	(unrelated sample)
ZZZZZZ	J0978052.D	07/14/16	18:17	10:04	(unrelated sample)
ZZZZZZ	J0978053.D	07/14/16	18:40	10:27	(unrelated sample)
FA35372-1MS	J0978054.D	07/14/16	19:03	10:50	Matrix Spike
FA35372-1MSD	J0978055.D	07/14/16	19:26	11:13	Matrix Spike Duplicate
VJ5370-ECC5368	J0978056.D	07/14/16	19:49	11:36	Ending cal 5

Volatile Internal Standard Area Summary

Job Number: FA35362
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5370-CC5368	**Injection Date:**	07/14/16
Lab File ID:	J0978029.D	**Injection Time:**	09:00
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]	3153491	7.74	2206914	10.83	1232592	13.19	327267	5.28
Check Std [b]	2807633	7.73	1879032	10.83	1004080	13.19	346378	5.28
Upper Limit [c]	5615266	8.23	3758064	11.33	2008160	13.69	692756	5.78
Lower Limit [d]	1403817	7.23	939516	10.33	502040	12.69	173189	4.78

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
VJ5371-BS	2757367	7.73	1871551	10.83	994028	13.19	354947	5.27
VJ5370-BS	2757367	7.73	1871551	10.83	994028	13.19	354947	5.27
VJ5371-MB	2719744	7.74	1863292	10.83	971377	13.19	343927	5.27
VJ5370-MB	2719744	7.74	1863292	10.83	971377	13.19	343927	5.27
FA35362-1	2711409	7.74	1870848	10.83	940065	13.19	275809	5.28
FA35362-2	2595568	7.74	1822897	10.83	924342	13.19	292712	5.27
FA35362-3	2520611	7.73	1781691	10.83	888339	13.19	298426	5.28
FA35362-4	2499585	7.74	1699793	10.83	854673	13.19	290674	5.27
FA35362-5	2426645	7.74	1736792	10.83	853270	13.19	297876	5.28
FA35362-6	2461214	7.74	1692001	10.83	824127	13.19	280361	5.28
FA35362-7	2403569	7.73	1674498	10.83	831473	13.19	300873	5.27
FA35362-8 [e]	2385267	7.74	1644917	10.83	816862	13.19	290353	5.27
FA35362-1MS	2429968	7.74	1689726	10.83	878462	13.19	293699	5.28
FA35362-1MSD	2463739	7.74	1715721	10.83	882459	13.19	325728	5.28
ZZZZZZ	2418487	7.74	1707513	10.83	845166	13.19	374178	5.28
ZZZZZZ	2410660	7.74	1668178	10.83	828200	13.19	282140	5.28
ZZZZZZ	2391855	7.74	1638549	10.83	807038	13.19	289380	5.27
ZZZZZZ	2306416	7.74	1586857	10.83	794767	13.19	283167	5.27
ZZZZZZ	2334992	7.74	1603317	10.83	788359	13.19	284051	5.28
ZZZZZZ	2316645	7.74	1609266	10.83	764540	13.19	279351	5.28
FA35372-1	2290216	7.74	1586585	10.83	777582	13.19	291513	5.28
ZZZZZZ	2318457	7.74	1603226	10.83	780161	13.19	299609	5.28
ZZZZZZ	2306891	7.74	1581455	10.83	778733	13.19	291672	5.27
ZZZZZZ	2277716	7.74	1554327	10.83	759570	13.19	274364	5.27
ZZZZZZ	2225793	7.74	1536421	10.83	755337	13.19	277508	5.27
ZZZZZZ	2235138	7.74	1525449	10.83	742752	13.19	259579	5.28
FA35372-1MS	2298263	7.74	1606807	10.83	817615	13.19	282284	5.28
FA35372-1MSD	2399917	7.74	1639951	10.83	848070	13.19	310868	5.28
VJ5370-ECC5368	2501215	7.74	1712833	10.83	888224	13.19	314290	5.28

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

Volatile Internal Standard Area Summary

Job Number: FA35362
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR

Check Std:	VJ5370-CC5368	**Injection Date:**	07/14/16
Lab File ID:	J0978029.D	**Injection Time:**	09:00
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**

IS 4 = Tert Butyl Alcohol-D10

(a) Initial Cal is: VJ5368-ICC5368 J0977975.D 07/12/16 10:33
(b) Check Std Limit = -50 to +100% of initial cal area.
(c) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(d) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.
(e) Sample received outside the holding time.

Volatile Surrogate Recovery Summary

Job Number: FA35362
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
FA35362-1	J0978032.D	103	107	102	109
FA35362-2	J0978033.D	102	104	101	109
FA35362-3	J0978034.D	102	108	102	110
FA35362-4	J0978035.D	102	107	104	112
FA35362-5	J0978036.D	101	109	100	113
FA35362-6	J0978037.D	101	109	103	112
FA35362-7	J0978038.D	100	109	102	110
FA35362-8	J0978039.D	100	111	103	112
FA35362-1MS	J0978040.D	101	109	103	108
FA35362-1MSD	J0978041.D	101	108	103	108
VJ5371-BS	J0978030.D	101	105	105	107
VJ5371-MB	J0978031.D	102	107	103	105

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

Initial Calibration Summary

Job Number: FA35362
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, Humacao, PR
Sample: VJ5368-ICC5368
Lab FileID: J0977975.D

Response Factor Report MSVOA6

```
Method       : C:\msdchem\1\methods\MSJ071216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jul 12 11:50:02 2016
Response via : Initial Calibration

Calibration Files
1   =J0977971.D  2   =J0977972.D  3   =J0977973.D  4   =J0977974.D
5   =J0977975.D  6   =J0977976.D  7   =J0977977.D

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

1) I   Fluorobenzene         ----------------ISTD---------------------
2)  Dichlorodifluorom 0.471 0.365 0.356 0.342 0.401 0.370 0.380 0.384  11.18
3)P Chloromethane     0.597 0.429 0.417 0.417 0.439 0.411 0.418 0.447  14.92
4)C Vinyl Chloride    0.462 0.332 0.322 0.316 0.349 0.323 0.332 0.348  14.82
5)  1,3-Butadiene     0.501 0.274 0.268 0.272 0.265 0.259 0.245 0.298  30.29
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.28138 *A + -0.01760 *A^2

6)  Bromomethane      0.321 0.220 0.199 0.183 0.180 0.158 0.157 0.203  28.04
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
              Response Ratio = 0.00000 + 0.18747 *A + -0.01632 *A^2

7)  Chloroethane      0.267 0.177 0.175 0.172 0.177 0.148 0.126 0.177  24.80
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.19991 *A + -0.03710 *A^2

8)  Trichlorofluorome 0.514 0.365 0.361 0.351 0.389 0.362 0.361 0.386  14.87
9)  Ethyl Ether       0.318 0.309 0.274 0.267 0.265 0.247 0.239 0.274  10.83
10) 1,2-Dichlorotrifl 0.428 0.398 0.323 0.318 0.338 0.317 0.315 0.348  13.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 0.33507 *A + -0.01041 *A^2

11)C 1,1-Dichloroethen 0.451 0.563 0.441 0.434 0.461 0.418 0.407 0.453  11.34
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
              Response Ratio = 0.00000 + 0.46713 *A + -0.03049 *A^2

12) Freon 113         0.281 0.335 0.265 0.262 0.283 0.254 0.259 0.277  10.03
13) Carbon Disulfide  1.071 1.220 0.950 0.934 0.983 0.874 0.858 0.984  12.78
14) Iodomethane       0.524 0.527 0.446 0.452 0.461 0.431 0.428 0.467   8.93
15) Allyl chloride    0.922 0.524 0.554 0.550 0.524 0.519 0.489 0.583  25.88
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.56452 *A + -0.03712 *A^2

16) Methylene Chlorid 0.658 0.559 0.453 0.446 0.440 0.412 0.403 0.482  19.28
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.45724 *A + -0.02782 *A^2

17) Acetone           0.016 0.026 0.024 0.023 0.022 0.022 0.022 0.022  14.34
18) Methyl acetate    0.043 0.049 0.043 0.043 0.044 0.042 0.041 0.043   5.97
19) trans-1,2-Dichlor 0.501 0.514 0.416 0.408 0.421 0.391 0.378 0.433  12.28
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.43368 *A + -0.02797 *A^2

20) Hexane            0.410 0.347 0.287 0.265 0.289 0.263 0.261 0.303  18.44
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.28725 *A + -0.01392 *A^2
```

Initial Calibration Summary

Job Number: FA35362 **Sample:** VJ5368-ICC5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977975.D
Project: BMSMC, Building 5 Area, Humacao, PR

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21)  Methyl Tert Butyl 0.994 1.109 0.940 0.939 0.911 0.855 0.842 0.941   9.60
22)  Acetonitrile      0.032 0.017 0.019 0.018 0.017 0.018 0.018 0.020  28.03
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.01752 *A + 0.00002 *A^2

23)  Di-isopropyl ethe 1.293 1.371 1.140 1.137 1.116 1.030 0.985 1.153  11.86
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 1.18270 *A + -0.10043 *A^2

24)  Chloroprene       0.796 0.495 0.532 0.510 0.519 0.501 0.461 0.545  20.70
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.55606 *A + -0.04603 *A^2

25)P 1,1-Dichloroethan 0.564 0.652 0.545 0.518 0.546 0.495 0.482 0.543  10.33
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.55698 *A + -0.03848 *A^2

26)  Acrylonitrile     0.127 0.103 0.108 0.107 0.099 0.098 0.096 0.106  10.08
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.10548 *A + -0.00101 *A^2

27)  ETBE              1.222 1.301 1.088 1.069 1.050 0.959 0.928 1.088  12.29
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 1.10456 *A + -0.09088 *A^2

28)  Vinyl acetate     0.728 0.682 0.695 0.599 0.513 0.411 0.340 0.567  26.49
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9977
              Response Ratio = 0.00000 + 0.67212 *A + -0.03439 *A^2

29)  cis-1,2-Dichloroe 0.354 0.403 0.315 0.327 0.331 0.311 0.304 0.335  10.19
30)  2,2-Dichloropropa 0.582 0.590 0.463 0.454 0.474 0.434 0.430 0.489  13.85
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.47729 *A + -0.02484 *A^2

31)  Bromochloromethan 0.161 0.174 0.142 0.144 0.143 0.136 0.134 0.147   9.75
32)  Cyclohexane       0.732 0.691 0.543 0.525 0.557 0.503 0.501 0.579  16.15
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 0.55673 *A + -0.02957 *A^2

33)C Chloroform        0.631 0.657 0.556 0.542 0.546 0.507 0.476 0.559  11.50
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.58067 *A + -0.05232 *A^2

34)  Ethyl acetate     0.297 0.251 0.273 0.244 0.229 0.213 0.191 0.243  14.79
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.26071 *A + -0.00696 *A^2

35)  Tetrahydrofuran   0.205 0.112 0.093 0.080 0.080 0.075 0.075 0.103  45.47
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.08184 *A + -0.00344 *A^2

36)S Dibromofluorometh 0.267 0.264 0.266 0.267 0.260 0.256 0.249 0.261   2.63
37)  Carbon Tetrachlor 0.435 0.503 0.374 0.376 0.407 0.374 0.368 0.405  12.18
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.40527 *A + -0.01907 *A^2

38)  1,1,1-Trichloroet 0.507 0.597 0.470 0.474 0.492 0.460 0.448 0.492  10.16
39)  2-Butanone        0.047 0.125 0.121 0.111 0.110 0.108 0.102 0.104  25.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
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                Response Ratio = 0.00000 + 0.11651 *A + -0.00139 *A^2

40)  1,1-Dichloroprope 0.410 0.472 0.387 0.371 0.400 0.368 0.356 0.395   9.82
41)  tert-Butyl Format 0.424 0.340 0.297 0.280 0.242 0.205 0.174 0.280  30.18
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 0.29421 *A + -0.00607 *A^2

42)  Propionitrile     0.076 0.034 0.036 0.036 0.034 0.034 0.034 0.040  38.49
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 0.03464 *A + -0.00003 *A^2

43)  Methacrylonitrile 0.351 0.168 0.167 0.159 0.143 0.123 0.107 0.174  46.82
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 0.16870 *A + -0.00313 *A^2

44)  Benzene           1.282 1.368 1.119 1.062 1.056 0.937 0.872 1.099  16.06
             ---- Quadratic regression ----  Coefficient =  0.9996
                Response Ratio = 0.01205 + 1.11797 *A + -0.12742 *A^2

45)  TAME              1.102 1.090 0.931 0.915 0.915 0.839 0.790 0.940  12.50
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 0.97479 *A + -0.09299 *A^2

46)S 1,2-Dichloroethan 0.352 0.358 0.354 0.354 0.355 0.351 0.347 0.353   1.00
47)  1,2-Dichloroethan 0.515 0.518 0.432 0.430 0.433 0.399 0.390 0.445  11.57
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.44606 *A + -0.02906 *A^2

48)  Trichloroethene   0.355 0.347 0.279 0.272 0.290 0.265 0.262 0.296  13.17
49)  Methylcyclohexane 0.566 0.640 0.496 0.497 0.529 0.482 0.463 0.525  11.63
50)  Dibromomethane    0.199 0.214 0.180 0.178 0.182 0.171 0.170 0.185   8.79
51)C 1,2-Dichloropropa 0.337 0.375 0.309 0.305 0.311 0.292 0.285 0.316   9.71
52)  Bromodichlorometh 0.444 0.485 0.426 0.406 0.411 0.393 0.374 0.420   8.67
53)  Methyl methacryla 0.548 0.271 0.265 0.264 0.260 0.257 0.254 0.303  35.77
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 0.26580 *A + -0.00594 *A^2

54)  2-Chloroethyl vin 0.198 0.155 0.168 0.179 0.165 0.150 0.138 0.165  11.92
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.18258 *A + -0.00448 *A^2

55)  cis-1,3-Dichlorop 0.499 0.577 0.478 0.475 0.487 0.451 0.426 0.485   9.83

56) I   Chlorobenzene-d5      ----------------ISTD---------------------
57)S Toluene-d8        1.307 1.334 1.338 1.343 1.345 1.378 1.376 1.346   1.83
58)C Toluene           1.876 2.032 1.641 1.617 1.599 1.405 1.250 1.631  16.19
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 1.78638 *A + -0.26862 *A^2

59)  2-Nitropropane    0.137 0.138 0.113 0.112 0.112 0.108 0.104 0.118  11.70
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 0.11646 *A + -0.00121 *A^2

60)  4-Methyl-2-pentan 0.102 0.427 0.411 0.375 0.338 0.306 0.266 0.318  34.90
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 0.39920 *A + -0.01338 *A^2

61)  trans-1,3-Dichlor 0.669 0.691 0.593 0.599 0.599 0.559 0.537 0.607   9.12
62)  Tetrachloroethene 0.370 0.453 0.386 0.365 0.424 0.373 0.372 0.392   8.61
63)  Ethyl methacrylat 1.091 0.534 0.541 0.559 0.538 0.532 0.521 0.617  33.97
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             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 0.55638 *A + -0.01749 *A^2

64)  1,1,2-Trichloroet 0.381 0.358 0.304 0.306 0.306 0.292 0.290 0.319  11.00
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 0.31088 *A + -0.01086 *A^2

65)  Dibromochlorometh 0.469 0.453 0.396 0.400 0.406 0.392 0.385 0.414   7.90
66)  1,3-Dichloropropa 0.622 0.774 0.650 0.659 0.658 0.616 0.599 0.654   8.81
67)  1,2-Dibromoethane 0.395 0.412 0.369 0.365 0.373 0.357 0.347 0.374   6.02
68)  2-hexanone        0.074 0.293 0.280 0.263 0.244 0.230 0.206 0.227  32.52
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
               Response Ratio = 0.00000 + 0.27821 *A + -0.00715 *A^2

69)  1-Chlorohexane    0.652 0.712 0.567 0.537 0.575 0.538 0.517 0.585  12.12
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
               Response Ratio = 0.00000 + 0.58734 *A + -0.03499 *A^2

70)C Ethylbenzene      2.062 2.229 1.815 1.721 1.686 1.439 1.246 1.743  19.41
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
               Response Ratio = 0.00000 + 1.92985 *A + -0.34317 *A^2

71)P Chlorobenzene     1.112 1.252 1.014 0.989 0.986 0.902 0.839 1.013  13.42
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 1.06415 *A + -0.11308 *A^2

72)  1,1,1,2-Tetrachlo 0.450 0.466 0.393 0.396 0.399 0.381 0.367 0.408   8.95
73)  m,p-Xylene        1.580 1.820 1.450 1.346 1.224 0.956 0.786 1.309  27.20
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9983
               Response Ratio = 0.00000 + 1.48668 *A + -0.17746 *A^2

74)  o-Xylene          1.761 1.906 1.580 1.544 1.500 1.310 1.147 1.536  16.68
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 1.70565 *A + -0.27956 *A^2

75)  Styrene           1.320 1.376 1.140 1.176 1.153 1.052 0.966 1.169  12.16
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
               Response Ratio = 0.00000 + 1.25805 *A + -0.14584 *A^2

76)P Bromoform         0.289 0.276 0.222 0.238 0.244 0.241 0.238 0.250   9.58
77)  Isopropylbenzene  2.091 2.178 1.767 1.707 1.705 1.447 1.269 1.738  18.59
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
               Response Ratio = 0.00000 + 1.91869 *A + -0.32637 *A^2


78) I   1,4-Dichlorobenzene-d ----------------ISTD---------------------
79)S 4-Bromofluorobenz 1.061 1.066 1.061 1.070 1.058 1.053 1.057 1.061   0.53
80)  cis-1,4-Dichloro- 0.626 0.316 0.290 0.304 0.291 0.300 0.296 0.346  35.81
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
               Response Ratio = 0.00000 + 0.29856 *A + -0.00103 *A^2

81)  n-Propylbenzene   4.413 4.968 3.916 3.648 3.557 2.817 2.370 3.670  24.19
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
               Response Ratio = 0.00000 + 4.15347 *A + -0.90116 *A^2

82)  Bromobenzene      0.874 0.997 0.775 0.776 0.782 0.734 0.723 0.809  11.92
             ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
               Response Ratio = 0.00000 + 0.79931 *A + -0.03952 *A^2

83)P 1,1,2,2-Tetrachlo 1.195 1.049 0.842 0.850 0.855 0.798 0.772 0.909  17.03
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            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.88751 *A + -0.05864 *A^2

84)  1,3,5-Trimethylbe 3.279 3.543 2.872 2.721 2.660 2.244 1.955 2.753  20.00
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9994
              Response Ratio = 0.00000 + 3.03664 *A + -0.54447 *A^2

85)  2-Chlorotoluene   3.374 3.415 2.770 2.594 2.566 2.140 1.918 2.682  21.11
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 2.86810 *A + -0.48199 *A^2

86)  trans-1,4-Dichlor 0.337 0.321 0.269 0.268 0.267 0.262 0.258 0.283  11.25
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.27253 *A + -0.00721 *A^2

87)  1,2,3-Trichloropr 0.386 0.277 0.226 0.230 0.236 0.223 0.219 0.257  23.51
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.23868 *A + -0.00984 *A^2

88)  Cyclohexanone     0.066 0.027 0.024 0.021 0.020 0.020 0.020 0.028  59.37
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 0.02118 *A + -0.00012 *A^2

89)  4-Chlorotoluene   3.085 3.285 2.632 2.542 2.509 2.128 1.901 2.583  18.88
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
              Response Ratio = 0.00000 + 2.80573 *A + -0.45704 *A^2

90)  a-Methyl Styrene  2.926 1.655 1.584 1.570 1.487 1.415 1.319 1.708  32.12
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 1.62621 *A + -0.15339 *A^2

91)  tert-Butylbenzene 1.936 2.177 1.709 1.640 1.716 1.488 1.384 1.721  15.53
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 1.82325 *A + -0.22200 *A^2

92)  1,2,4-Trimethylbe 3.556 3.521 2.865 2.733 2.697 2.212 1.935 2.788  21.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9989
              Response Ratio = 0.00000 + 3.05832 *A + -0.56787 *A^2

93)  Pentachloroethane 0.994 0.502 0.456 0.483 0.418 0.459 0.455 0.538  37.68
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9985
              Response Ratio = 0.00000 + 0.44425 *A + 0.00575 *A^2

94)  sec-Butylbenzene  4.195 4.426 3.430 3.273 3.281 2.670 2.303 3.368  22.50
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9986
              Response Ratio = 0.00000 + 3.73191 *A + -0.72034 *A^2

95)  4-Isopropyltoluen 3.360 3.536 2.824 2.771 2.789 2.297 2.025 2.800  19.07
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
              Response Ratio = 0.00000 + 3.11657 *A + -0.55108 *A^2

96)  1,3-Dichlorobenze 1.740 1.862 1.472 1.492 1.498 1.366 1.313 1.535  12.87
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 1.56781 *A + -0.13006 *A^2

97)  1,4-Dichlorobenze 1.717 1.882 1.515 1.497 1.517 1.372 1.308 1.544  12.78
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 1.59534 *A + -0.14597 *A^2

98)  n-Butylbenzene    2.190 2.321 1.787 1.803 1.833 1.586 1.467 1.855  16.46
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              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9991
                Response Ratio = 0.00000 + 1.97172 *A + -0.25538 *A^2

 99)  Benzyl Chloride   0.435 0.425 0.362 0.340 0.343 0.321       0.371  12.90
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.36440 *A + -0.03069 *A^2

100)  1,2-Dichlorobenze 1.937 1.802 1.486 1.482 1.463 1.330 1.271 1.539  15.80
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 1.54980 *A + -0.14194 *A^2

101)  1,2-Dibromo-3-Chl 0.173 0.205 0.171 0.169 0.170 0.168 0.170 0.175   7.66
102)  Hexachlorobutadie 0.478 0.615 0.457 0.461 0.499 0.469 0.466 0.492  11.40
103)  1,2,4-Trichlorobe 1.274 1.293 1.039 1.067 1.063 0.975 0.952 1.095  12.42
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
                Response Ratio = 0.00000 + 1.09940 *A + -0.07579 *A^2

104)  Naphthalene       2.984 2.733 2.268 2.230 2.212 1.933 1.747 2.301  18.68
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 2.44221 *A + -0.34958 *A^2

105)  1,2,3-Trichlorobe 1.134 1.200 0.972 0.975 0.987 0.901 0.893 1.009  11.46
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 1.00420 *A + -0.05839 *A^2


106) I   Tert Butyl Alcohol-d1 ----------------ISTD---------------------
107)  Ethanol                 0.193 0.142 0.116 0.117 0.119 0.117 0.134  22.82
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9984
                Response Ratio = 0.00000 + 0.12182 *A + -0.00063 *A^2

108)  acrolein          3.801 2.289 2.646 2.479 2.197 2.337 2.258 2.572  21.86
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9987
                Response Ratio = 0.00000 + 2.38732 *A + -0.06198 *A^2

109)  Tert Butyl Alcoho 1.462 1.480 1.208 1.187 1.216 1.210 1.183 1.278  10.37
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 1.23542 *A + -0.01239 *A^2

110)  tert Amyl alcohol 1.243 1.187 0.996 1.009 1.010 0.985 0.989 1.060  10.13
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 1.01214 *A + -0.00644 *A^2

111)  Isobutyl alcohol  0.798 0.460 0.434 0.393 0.382 0.398 0.384 0.464  32.32
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 0.40233 *A + -0.00211 *A^2

112)  1,4-Dioxane       0.114 0.109 0.095 0.090 0.089 0.091 0.101 0.099  10.05
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
                Response Ratio = 0.00000 + 0.08082 *A + 0.00245 *A^2

113)  3,3-Dimethyl-1-bu 1.608 1.193 1.039 1.002 0.906 0.880 0.789 1.060  25.88
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9993
                Response Ratio = 0.00000 + 1.04422 *A + -0.01265 *A^2

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

          MSJ071216a.M        Tue Jul 12 14:12:40 2016
```

Initial Calibration Verification

Job Number: FA35362 **Sample:** VJ5368-ICV5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977979.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\071216\J0977979.D          Vial: 1
Acq On    : 12 Jul 2016  12:47 pm                     Operator: darshnap
Sample    : icv5368-5                                 Inst    : MSVOA6
Misc      : MS34317,vj5368,,,,,                       Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ071216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Tue Jul 12 11:50:02 2016
Response via : Multiple Level Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00	7.74
2		Dichlorodifluoromethane	0.384	0.378	1.6	96	0.00	2.68
3	P	Chloromethane	0.447	0.418	6.5	97	0.00	2.88
4	C	Vinyl Chloride	0.348	0.339	2.6	98	0.00	3.03
		----------	Amount	Calc.	%Drift		----------	
5		1,3-Butadiene	40.000	1.457	96.4#	4	-0.02	3.00
6		Bromomethane	40.000	46.607	-16.5	113	0.00	3.44
7		Chloroethane	40.000	47.314	-18.3	111	0.00	3.60
		----------	AvgRF	CCRF	%Dev		----------	
8		Trichlorofluoromethane	0.386	0.403	-4.4	105	0.01	3.82
9		Ethyl Ether	0.274	0.244	10.9	93	0.00	4.10
		----------	Amount	Calc.	%Drift		----------	
10		1,2-Dichlorotrifluoroetha	40.000	43.053	-7.6	105	0.00	4.33
11	C	1,1-Dichloroethene	40.000	42.582	-6.5	103	0.00	4.38
		----------	AvgRF	CCRF	%Dev		----------	
12		Freon 113	0.277	0.242	12.6	87	0.00	4.44
13		Carbon Disulfide	0.984	0.843	14.3	87	0.00	4.46
14		Iodomethane	0.467	0.417	10.7	92	0.00	4.57
		----------	Amount	Calc.	%Drift		----------	
15		Allyl chloride	40.000	37.631	5.9	98	0.00	4.91
16		Methylene Chloride	40.000	42.585	-6.5	106	0.00	5.03
		----------	AvgRF	CCRF	%Dev		----------	
17		Acetone	0.022	0.029	-31.8#	132	0.00	5.05
18		Methyl acetate	0.043	0.044	-2.3	101	0.00	5.17
		----------	Amount	Calc.	%Drift		----------	
19		trans-1,2-Dichloroethene	40.000	44.746	-11.9	110	0.00	5.21
20		Hexane	40.000	37.444	6.4	91	0.00	5.28
		----------	AvgRF	CCRF	%Dev		----------	
21		Methyl Tert Butyl Ether	0.941	0.883	6.2	98	0.00	5.32
		----------	Amount	Calc.	%Drift		----------	
22		Acetonitrile	400.000	389.945	2.5	103	0.00	5.57
23		Di-isopropyl ether	40.000	39.088	2.3	98	0.00	5.70
24		Chloroprene	40.000	39.472	1.3	100	0.00	5.85

Initial Calibration Verification

Job Number: FA35362 **Sample:** VJ5368-ICV5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977979.D
Project: BMSMC, Building 5 Area, Humacao, PR

25	P	1,1-Dichloroethane	40.000	42.741	-6.9	104	0.00	5.88
26		Acrylonitrile	200.000	201.936	-1.0	104	0.00	5.91
27		ETBE	40.000	38.490	3.8	96	0.00	6.10
28		Vinyl acetate	200.000	196.202	1.9	104	0.00	6.09
			AvgRF	CCRF	%Dev			
29		cis-1,2-Dichloroethene	0.335	0.316	5.7	97	0.00	6.46
			Amount	Calc.	%Drift			
30		2,2-Dichloropropane	40.000	43.940	-9.8	107	0.00	6.59
			AvgRF	CCRF	%Dev			
31		Bromochloromethane	0.147	0.136	7.5	96	0.00	6.67
			Amount	Calc.	%Drift			
32		Cyclohexane	40.000	38.615	3.5	94	0.00	6.72
33	C	Chloroform	40.000	40.027	-0.1	100	0.00	6.72
34		Ethyl acetate	200.000	213.260	-6.6	109	0.00	6.78
35		Tetrahydrofuran	40.000	41.199	-3.0	104	0.00	6.90
			AvgRF	CCRF	%Dev			
36	S	Dibromofluoromethane	0.261	0.265	-1.5	103	0.00	6.91
			Amount	Calc.	%Drift			
37		Carbon Tetrachloride	40.000	41.481	-3.7	101	0.00	6.92
			AvgRF	CCRF	%Dev			
38		1,1,1-Trichloroethane	0.492	0.460	6.5	95	0.00	6.98
			Amount	Calc.	%Drift			
39		2-Butanone	200.000	231.464	-15.7	118	0.00	7.00
			AvgRF	CCRF	%Dev			
40		1,1-Dichloropropene	0.395	0.374	5.3	95	0.00	7.09
			Amount	Calc.	%Drift			
41		tert-Butyl Formate	400.000	440.405	-10.1	111	0.00	7.17
42		Propionitrile	400.000	430.646	-7.7	111	0.00	7.31
43		Methacrylonitrile	400.000	426.163	-6.5	108	0.00	7.34
44		Benzene	40.000	39.723	0.7	98	0.00	7.34
45		TAME	40.000	38.570	3.6	96	0.00	7.42
			AvgRF	CCRF	%Dev			
46	S	1,2-Dichloroethane-d4	0.353	0.358	-1.4	102	0.00	7.46
			Amount	Calc.	%Drift			
47		1,2-Dichloroethane	40.000	40.577	-1.4	100	0.00	7.53
			AvgRF	CCRF	%Dev			
48		Trichloroethene	0.296	0.282	4.7	98	0.00	7.92
49		Methylcyclohexane	0.525	0.500	4.8	96	0.00	7.94
50		Dibromomethane	0.185	0.180	2.7	100	0.00	8.34
51	C	1,2-Dichloropropane	0.316	0.295	6.6	96	0.00	8.43
52		Bromodichloromethane	0.420	0.409	2.6	101	0.00	8.47
			Amount	Calc.	%Drift			
53		Methyl methacrylate	40.000	44.450	-11.1	113	0.00	8.57
54		2-Chloroethyl vinyl ether	200.000	216.807	-8.4	109	0.00	8.99
			AvgRF	CCRF	%Dev			

Initial Calibration Verification

Job Number: FA35362 **Sample:** VJ5368-ICV5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977979.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.485	0.485	0.0	101	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00	10.83
57	S	Toluene-d8	1.346	1.359	-1.0	100	0.00	9.28
		----------	Amount	Calc.	%Drift		----------	
58	C	Toluene	40.000	39.318	1.7	96	0.00	9.33
59		2-Nitropropane	200.000	208.140	-4.1	103	0.00	9.54
60		4-Methyl-2-pentanone	200.000	217.463	-8.7	109	0.00	9.66
		----------	AvgRF	CCRF	%Dev		----------	
61		trans-1,3-Dichloropropene	0.607	0.655	-7.9	109	0.00	9.72
62		Tetrachloroethene	0.392	0.368	6.1	86	0.00	9.74
		----------	Amount	Calc.	%Drift		----------	
63		Ethyl methacrylate	40.000	37.011	7.5	93	0.00	9.82
64		1,1,2-Trichloroethane	40.000	41.665	-4.2	102	0.00	9.88
		----------	AvgRF	CCRF	%Dev		----------	
65		Dibromochloromethane	0.414	0.416	-0.5	102	0.00	10.08
66		1,3-Dichloropropane	0.654	0.634	3.1	96	0.00	10.17
67		1,2-Dibromoethane	0.374	0.374	0.0	100	0.00	10.34
		----------	Amount	Calc.	%Drift		----------	
68		2-hexanone	200.000	214.789	-7.4	108	0.00	10.47
69		1-Chlorohexane	40.000	39.921	0.2	97	0.00	10.78
70	C	Ethylbenzene	40.000	39.622	0.9	97	0.00	10.84
71	P	Chlorobenzene	40.000	40.841	-2.1	100	0.00	10.85
		----------	AvgRF	CCRF	%Dev		----------	
72		1,1,1,2-Tetrachloroethane	0.408	0.412	-1.0	103	0.00	10.89
		----------	Amount	Calc.	%Drift		----------	
73		m,p-Xylene	80.000	80.397	-0.5	98	0.00	10.98
74		o-Xylene	40.000	39.686	0.8	98	0.00	11.42
75		Styrene	40.000	39.712	0.7	98	0.00	11.47
		----------	AvgRF	CCRF	%Dev		----------	
76	P	Bromoform	0.250	0.253	-1.2	103	0.00	11.53
		----------	Amount	Calc.	%Drift		----------	
77		Isopropylbenzene	40.000	40.998	-2.5	99	0.00	11.72
		----------	AvgRF	CCRF	%Dev		----------	
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	99	0.00	13.19
79	S	4-Bromofluorobenzene	1.061	1.072	-1.0	100	0.00	12.03
		----------	Amount	Calc.	%Drift		----------	
80		cis-1,4-Dichloro-2-butene	40.000	39.334	1.7	100	0.00	12.07
81		n-Propylbenzene	40.000	42.326	-5.8	100	0.00	12.15
82		Bromobenzene	40.000	40.169	-0.4	98	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	40.000	42.708	-6.8	104	0.00	12.21
84		1,3,5-Trimethylbenzene	40.000	40.119	-0.3	97	0.00	12.33
85		2-Chlorotoluene	40.000	40.951	-2.4	98	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	40.000	41.259	-3.1	102	0.00	12.38
87		1,2,3-Trichloropropane	40.000	42.456	-6.1	103	0.00	12.36
88		Cyclohexanone	200.000	194.991	2.5	100	0.00	12.43
89		4-Chlorotoluene	40.000	41.421	-3.6	99	0.00	12.50
90		a-Methyl Styrene	40.000	0.095	99.8#	0	0.00	12.59

Initial Calibration Verification

Job Number: FA35362 **Sample:** VJ5368-ICV5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0977979.D
Project: BMSMC, Building 5 Area, Humacao, PR

91	tert-Butylbenzene	40.000	41.279	-3.2	98	0.00	12.67
92	1,2,4-Trimethylbenzene	40.000	40.633	-1.6	97	0.00	12.73
93	Pentachloroethane	40.000	46.004	-15.0	122	0.00	12.72
94	sec-Butylbenzene	40.000	42.151	-5.4	99	0.00	12.85
95	4-Isopropyltoluene	40.000	41.742	-4.4	99	0.00	12.98
96	1,3-Dichlorobenzene	40.000	41.625	-4.1	100	0.00	13.12
97	1,4-Dichlorobenzene	40.000	41.374	-3.4	100	0.00	13.20
98	n-Butylbenzene	40.000	40.485	-1.2	97	0.00	13.42
99	Benzyl Chloride	40.000	42.725	-6.8	104	0.00	13.43
100	1,2-Dichlorobenzene	40.000	40.779	-1.9	99	0.00	13.63
	----------	AvgRF	CCRF	%Dev	----------		
101	1,2-Dibromo-3-Chloropropa	0.175	0.179	-2.3	104	0.00	14.37
102	Hexachlorobutadiene	0.492	0.485	1.4	96	0.00	14.91
	----------	Amount	Calc.	%Drift	----------		
103	1,2,4-Trichlorobenzene	40.000	40.874	-2.2	99	0.00	14.95
104	Naphthalene	40.000	45.430	-13.6	108	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	40.598	-1.5	98	0.00	15.41
	----------	AvgRF	CCRF	%Dev	----------		
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	115	0.00	5.27
	----------	Amount	Calc.	%Drift	----------		
107	Ethanol	800.000	708.674	11.4	105	0.00	4.26
108	acrolein	200.000	217.045	-8.5	133	0.00	4.74
109	Tert Butyl Alcohol	400.000	368.324	7.9	106	0.00	5.36
110	tert Amyl alcohol	400.000	367.963	8.0	105	0.00	7.55
111	Isobutyl alcohol	800.000	724.765	9.4	108	0.00	7.43
112	1,4-Dioxane	800.000	711.971	11.0	101	0.00	8.65
113	3,3-Dimethyl-1-butanol	2000.000	1926.355	3.7	116	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977975.D MSJ071216a.M Tue Jul 12 14:12:30 2016

6.7.2
6

Continuing Calibration Summary

Job Number: FA35362 **Sample:** VJ5370-CC5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0978029.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\071416\J0978029.D          Vial: 1
Acq On    : 14 Jul 2016   9:00 am                    Operator: darshnap
Sample    : cc5368-5                                 Inst    : MSVOA6
Misc      : MS34397,vj5370,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ071216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jul 13 08:28:16 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	89	0.00	7.73
2	Dichlorodifluoromethane	0.384	0.366	4.7	81	0.00	2.67
3 P	Chloromethane	0.447	0.444	0.7	90	0.00	2.89
4 C	Vinyl Chloride	0.348	0.368	-5.7	94	0.00	3.03
	----------	Amount	Calc.	%Drift		----------	
5	1,3-Butadiene	40.000	39.626	0.9	89	0.00	3.02
6	Bromomethane	40.000	44.661	-11.7	95	0.00	3.44
7	Chloroethane	40.000	44.520	-11.3	93	0.00	3.59
	----------	AvgRF	CCRF	%Dev		----------	
8	Trichlorofluoromethane	0.386	0.414	-7.3	95	0.00	3.81
9	Ethyl Ether	0.274	0.272	0.7	92	0.00	4.10
	----------	Amount	Calc.	%Drift		----------	
10	1,2-Dichlorotrifluoroetha	40.000	43.730	-9.3	94	0.00	4.33
11 C	1,1-Dichloroethene	40.000	42.847	-7.1	91	0.00	4.38
	----------	AvgRF	CCRF	%Dev		----------	
12	Freon 113	0.277	0.281	-1.4	88	0.00	4.44
13	Carbon Disulfide	0.984	0.970	1.4	88	0.00	4.46
14	Iodomethane	0.467	0.433	7.3	84	0.00	4.57
	----------	Amount	Calc.	%Drift		----------	
15	Allyl chloride	40.000	39.484	1.3	90	0.00	4.90
16	Methylene Chloride	40.000	40.701	-1.8	89	0.00	5.03
	----------	AvgRF	CCRF	%Dev		----------	
17	Acetone	0.022	0.027	-22.7#	108	0.00	5.05
18	Methyl acetate	0.043	0.044	-2.3	90	0.00	5.17
	----------	Amount	Calc.	%Drift		----------	
19	trans-1,2-Dichloroethene	40.000	42.858	-7.1	93	0.00	5.21
20	Hexane	40.000	42.178	-5.4	89	0.00	5.28
	----------	AvgRF	CCRF	%Dev		----------	
21	Methyl Tert Butyl Ether	0.941	0.905	3.8	88	0.00	5.32
	----------	Amount	Calc.	%Drift		----------	
22	Acetonitrile	400.000	480.315	-20.1#	112	0.00	5.57
23	Di-isopropyl ether	40.000	41.507	-3.8	91	0.00	5.69
24	Chloroprene	40.000	38.389	4.0	86	0.00	5.85

Continuing Calibration Summary

Job Number: FA35362 **Sample:** VJ5370-CC5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0978029.D
Project: BMSMC, Building 5 Area, Humacao, PR

25	P	1,1-Dichloroethane	40.000	41.840	-4.6	89	0.00	5.88
26		Acrylonitrile	200.000	222.557	-11.3	101	0.00	5.91
27		ETBE	40.000	41.450	-3.6	90	0.00	6.10
28		Vinyl acetate	200.000	216.619	-8.3	98	0.00	6.08
		----------	AvgRF	CCRF	%Dev	----------		
29		cis-1,2-Dichloroethene	0.335	0.314	6.3	85	0.00	6.45
		----------	Amount	Calc.	%Drift	----------		
30		2,2-Dichloropropane	40.000	42.201	-5.5	90	0.00	6.58
		----------	AvgRF	CCRF	%Dev	----------		
31		Bromochloromethane	0.147	0.131	10.9	82	0.00	6.66
		----------	Amount	Calc.	%Drift	----------		
32		Cyclohexane	40.000	41.726	-4.3	89	0.00	6.72
33	C	Chloroform	40.000	40.107	-0.3	88	0.00	6.72
34		Ethyl acetate	200.000	219.431	-9.7	98	0.00	6.78
35		Tetrahydrofuran	40.000	44.138	-10.3	97	0.00	6.89
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.261	0.258	1.1	88	0.00	6.91
		----------	Amount	Calc.	%Drift	----------		
37		Carbon Tetrachloride	40.000	40.976	-2.4	87	0.00	6.92
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.492	0.474	3.7	86	0.00	6.98
		----------	Amount	Calc.	%Drift	----------		
39		2-Butanone	200.000	217.407	-8.7	97	0.00	7.00
		----------	AvgRF	CCRF	%Dev	----------		
40		1,1-Dichloropropene	0.395	0.398	-0.8	88	0.00	7.08
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	422.450	-5.6	94	0.00	7.17
42		Propionitrile	400.000	456.330	-14.1	103	0.00	7.31
43		Methacrylonitrile	400.000	436.411	-9.1	96	0.00	7.34
44		Benzene	40.000	41.033	-2.6	89	0.00	7.33
45		TAME	40.000	39.320	1.7	86	0.00	7.42
		----------	AvgRF	CCRF	%Dev	----------		
46	S	1,2-Dichloroethane-d4	0.353	0.364	-3.1	91	0.00	7.46
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	41.046	-2.6	89	0.00	7.53
		----------	AvgRF	CCRF	%Dev	----------		
48		Trichloroethene	0.296	0.272	8.1	84	0.00	7.92
49		Methylcyclohexane	0.525	0.499	5.0	84	0.00	7.94
50		Dibromomethane	0.185	0.172	7.0	85	0.00	8.34
51	C	1,2-Dichloropropane	0.316	0.294	7.0	84	0.00	8.43
52		Bromodichloromethane	0.420	0.401	4.5	87	0.00	8.47
		----------	Amount	Calc.	%Drift	----------		
53		Methyl methacrylate	40.000	40.850	-2.1	91	0.00	8.57
54		2-Chloroethyl vinyl ether	200.000	215.385	-7.7	95	0.00	8.99
		----------	AvgRF	CCRF	%Dev	----------		

Continuing Calibration Summary

Job Number: FA35362 **Sample:** VJ5370-CC5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0978029.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.485	0.468	3.5	86	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00	10.83
57	S	Toluene-d8	1.346	1.401	-4.1	89	0.00	9.28
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	40.616	-1.5	85	0.00	9.33
59		2-Nitropropane	200.000	218.687	-9.3	92	0.00	9.54
60		4-Methyl-2-pentanone	200.000	222.228	-11.1	95	0.00	9.66
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.607	0.598	1.5	85	0.00	9.72
62		Tetrachloroethene	0.392	0.340	13.3	68	0.00	9.74
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	39.640	0.9	85	0.00	9.82
64		1,1,2-Trichloroethane	40.000	40.493	-1.2	85	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
65		Dibromochloromethane	0.414	0.382	7.7	80	0.00	10.08
66		1,3-Dichloropropane	0.654	0.668	-2.1	86	0.00	10.17
67		1,2-Dibromoethane	0.374	0.350	6.4	80	0.00	10.34
		----------	Amount	Calc.	%Drift	----------		
68		2-hexanone	200.000	221.542	-10.8	95	0.00	10.47
69		1-Chlorohexane	40.000	40.680	-1.7	84	0.00	10.78
70	C	Ethylbenzene	40.000	41.602	-4.0	86	0.00	10.84
71	P	Chlorobenzene	40.000	39.901	0.2	84	0.00	10.85
		----------	AvgRF	CCRF	%Dev	----------		
72		1,1,1,2-Tetrachloroethane	0.408	0.374	8.3	80	0.00	10.89
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	84.180	-5.2	87	0.00	10.98
74		o-Xylene	40.000	40.127	-0.3	84	0.00	11.42
75		Styrene	40.000	38.040	4.9	81	0.00	11.47
		----------	AvgRF	CCRF	%Dev	----------		
76	P	Bromoform	0.250	0.221	11.6	77	0.00	11.53
		----------	Amount	Calc.	%Drift	----------		
77		Isopropylbenzene	40.000	39.809	0.5	82	0.00	11.72
		----------	AvgRF	CCRF	%Dev	----------		
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	81	0.00	13.19
79	S	4-Bromofluorobenzene	1.061	1.107	-4.3	85	0.00	12.03
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	44.785	-12.0	93	0.00	12.07
81		n-Propylbenzene	40.000	44.525	-11.3	85	0.00	12.15
82		Bromobenzene	40.000	38.205	4.5	77	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	40.000	42.644	-6.6	85	0.00	12.21
84		1,3,5-Trimethylbenzene	40.000	42.868	-7.2	84	0.00	12.33
85		2-Chlorotoluene	40.000	43.460	-8.7	84	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	40.000	45.262	-13.2	92	0.00	12.38
87		1,2,3-Trichloropropane	40.000	41.228	-3.1	82	0.00	12.37
88		Cyclohexanone	200.000	278.128	-39.1#	116	0.00	12.43
89		4-Chlorotoluene	40.000	42.776	-6.9	84	0.00	12.50
90		a-Methyl Styrene	40.000	38.602	3.5	80	0.00	12.59

Continuing Calibration Summary

Job Number: FA35362 **Sample:** VJ5370-CC5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0978029.D
Project: BMSMC, Building 5 Area, Humacao, PR

91	tert-Butylbenzene	40.000	41.690	-4.2	81	0.00	12.67
92	1,2,4-Trimethylbenzene	40.000	42.621	-6.6	83	0.00	12.73
93	Pentachloroethane	40.000	42.134	-5.3	92	0.00	12.72
94	sec-Butylbenzene	40.000	42.142	-5.4	82	0.00	12.85
95	4-Isopropyltoluene	40.000	40.620	-1.5	79	0.00	12.99
96	1,3-Dichlorobenzene	40.000	39.030	2.4	78	0.00	13.12
97	1,4-Dichlorobenzene	40.000	39.264	1.8	78	0.00	13.20
98	n-Butylbenzene	40.000	41.261	-3.2	81	0.00	13.42
99	Benzyl Chloride	40.000	40.182	-0.5	81	0.00	13.43
100	1,2-Dichlorobenzene	40.000	38.948	2.6	78	0.00	13.63
	----------	AvgRF	CCRF	%Dev	----------		
101	1,2-Dibromo-3-Chloropropa	0.175	0.167	4.6	80	0.00	14.37
102	Hexachlorobutadiene	0.492	0.421	14.4	69	0.00	14.91
	----------	Amount	Calc.	%Drift	----------		
103	1,2,4-Trichlorobenzene	40.000	37.117	7.2	74	0.00	14.96
104	Naphthalene	40.000	38.186	4.5	76	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	36.266	9.3	72	0.00	15.41
	----------	AvgRF	CCRF	%Dev	----------		
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	106	0.00	5.28
	----------	Amount	Calc.	%Drift	----------		
107	Ethanol	800.000	906.921	-13.4	123	-0.01	4.25
108	acrolein	200.000	182.792	8.6	103	0.00	4.74
109	Tert Butyl Alcohol	400.000	383.625	4.1	102	0.00	5.36
110	tert Amyl alcohol	400.000	371.453	7.1	98	0.00	7.56
111	Isobutyl alcohol	800.000	777.441	2.8	107	0.00	7.43
112	1,4-Dioxane	800.000	962.998	-20.4#	129	0.00	8.65
113	3,3-Dimethyl-1-butanol	2000.000	1809.480	9.5	101	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977975.D MSJ071216a.M Thu Jul 14 11:36:37 2016

6.7.3

6

Continuing Calibration Summary

Job Number: FA35362 **Sample:** VJ5370-ECC5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0978056.D
Project: BMSMC, Building 5 Area, Humacao, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\data\071416\J0978056.D          Vial: 23
Acq On    : 14 Jul 2016   7:49 pm                    Operator: darshnap
Sample    : ecc5368-5                                Inst    : MSVOA6
Misc      : MS34397,vj5370,,,,,                      Multiplr: 1.00
MS Integration Params: RTEINT.P

Method       : C:\msdchem\1\methods\MSJ071216a.M (RTE Integrator)
Title        : SW-846 Method 5030B/8260B & EPA 624
Last Update  : Wed Jul 13 08:28:16 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	79	0.00	7.74
2	Dichlorodifluoromethane	0.384	0.378	1.6	75	0.00	2.66
3 P	Chloromethane	0.447	0.474	-6.0	86	0.00	2.88
4 C	Vinyl Chloride	0.348	0.413	-18.7	94	0.00	3.02
	----------	Amount	Calc.	%Drift		----------	
5	1,3-Butadiene	40.000	56.333	-40.8	110	0.00	3.02
6	Bromomethane	40.000	49.714	-24.3	94	0.00	3.44
7	Chloroethane	40.000	50.781	-27.0	92	0.00	3.60
	----------	AvgRF	CCRF	%Dev		----------	
8	Trichlorofluoromethane	0.386	0.470	-21.8	96	0.00	3.80
9	Ethyl Ether	0.274	0.283	-3.3	85	0.00	4.11
	----------	Amount	Calc.	%Drift		----------	
10	1,2-Dichlorotrifluoroetha	40.000	46.416	-16.0	89	0.00	4.34
11 C	1,1-Dichloroethene	40.000	46.189	-15.5	87	0.00	4.38
	----------	AvgRF	CCRF	%Dev		----------	
12	Freon 113	0.277	0.284	-2.5	80	0.00	4.44
13	Carbon Disulfide	0.984	0.997	-1.3	80	0.00	4.46
14	Iodomethane	0.467	0.421	9.9	72	0.00	4.57
	----------	Amount	Calc.	%Drift		----------	
15	Allyl chloride	40.000	41.426	-3.6	84	0.00	4.91
16	Methylene Chloride	40.000	42.882	-7.2	84	0.00	5.03
	----------	AvgRF	CCRF	%Dev		----------	
17	Acetone	0.022	0.026	-18.2	95	0.00	5.05
18	Methyl acetate	0.043	0.046	-7.0	83	0.00	5.18
	----------	Amount	Calc.	%Drift		----------	
19	trans-1,2-Dichloroethene	40.000	45.290	-13.2	87	0.00	5.21
20	Hexane	40.000	45.378	-13.4	85	0.00	5.28
	----------	AvgRF	CCRF	%Dev		----------	
21	Methyl Tert Butyl Ether	0.941	0.914	2.9	80	0.00	5.32
	----------	Amount	Calc.	%Drift		----------	
22	Acetonitrile	400.000	478.577	-19.6	99	0.00	5.57
23	Di-isopropyl ether	40.000	43.245	-8.1	84	0.00	5.70
24	Chloroprene	40.000	45.649	-14.1	90	0.00	5.85

Continuing Calibration Summary

Job Number: FA35362 **Sample:** VJ5370-ECC5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0978056.D
Project: BMSMC, Building 5 Area, Humacao, PR

25	P	1,1-Dichloroethane	40.000	44.496	-11.2	84	0.00	5.88
26		Acrylonitrile	200.000	222.135	-11.1	90	0.00	5.91
27		ETBE	40.000	42.850	-7.1	83	0.00	6.10
28		Vinyl acetate	200.000	225.629	-12.8	90	0.00	6.09
		----------	AvgRF	CCRF	%Dev	----------		
29		cis-1,2-Dichloroethene	0.335	0.320	4.5	77	0.00	6.46
		----------	Amount	Calc.	%Drift	----------		
30		2,2-Dichloropropane	40.000	37.944	5.1	73	0.00	6.59
		----------	AvgRF	CCRF	%Dev	----------		
31		Bromochloromethane	0.147	0.128	12.9	71	0.00	6.67
		----------	Amount	Calc.	%Drift	----------		
32		Cyclohexane	40.000	45.006	-12.5	85	0.00	6.72
33	C	Chloroform	40.000	42.184	-5.5	82	0.00	6.72
34		Ethyl acetate	200.000	242.413	-21.2	95	0.00	6.79
35		Tetrahydrofuran	40.000	43.845	-9.6	86	0.00	6.90
		----------	AvgRF	CCRF	%Dev	----------		
36	S	Dibromofluoromethane	0.261	0.256	1.9	78	0.00	6.91
		----------	Amount	Calc.	%Drift	----------		
37		Carbon Tetrachloride	40.000	41.641	-4.1	79	0.00	6.92
		----------	AvgRF	CCRF	%Dev	----------		
38		1,1,1-Trichloroethane	0.492	0.489	0.6	79	0.00	6.98
		----------	Amount	Calc.	%Drift	----------		
39		2-Butanone	200.000	236.620	-18.3	94	0.00	7.01
		----------	AvgRF	CCRF	%Dev	----------		
40		1,1-Dichloropropene	0.395	0.426	-7.8	84	0.00	7.09
		----------	Amount	Calc.	%Drift	----------		
41		tert-Butyl Formate	400.000	365.957	8.5	75	0.00	7.17
42		Propionitrile	400.000	457.534	-14.4	92	0.00	7.32
43		Methacrylonitrile	400.000	481.569	-20.4	93	0.00	7.34
44		Benzene	40.000	44.170	-10.4	85	0.00	7.34
45		TAME	40.000	39.982	0.0	78	0.00	7.42
		----------	AvgRF	CCRF	%Dev	----------		
46	S	1,2-Dichloroethane-d4	0.353	0.375	-6.2	84	0.00	7.46
		----------	Amount	Calc.	%Drift	----------		
47		1,2-Dichloroethane	40.000	42.529	-6.3	82	0.00	7.53
		----------	AvgRF	CCRF	%Dev	----------		
48		Trichloroethene	0.296	0.286	3.4	78	0.00	7.92
49		Methylcyclohexane	0.525	0.524	0.2	79	0.00	7.94
50		Dibromomethane	0.185	0.175	5.4	77	0.00	8.34
51	C	1,2-Dichloropropane	0.316	0.311	1.6	79	0.00	8.43
52		Bromodichloromethane	0.420	0.403	4.0	78	0.00	8.48
		----------	Amount	Calc.	%Drift	----------		
53		Methyl methacrylate	40.000	43.745	-9.4	87	0.00	8.57
54		2-Chloroethyl vinyl ether	200.000	221.240	-10.6	87	0.00	8.99
		----------	AvgRF	CCRF	%Dev	----------		

Continuing Calibration Summary

Job Number: FA35362 **Sample:** VJ5370-ECC5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0978056.D
Project: BMSMC, Building 5 Area, Humacao, PR

55		cis-1,3-Dichloropropene	0.485	0.459	5.4	75	0.00	9.09
56	I	Chlorobenzene-d5	1.000	1.000	0.0	78	0.00	10.83
57	S	Toluene-d8	1.346	1.407	-4.5	81	0.00	9.28
		----------	Amount	Calc.	%Drift	----------		
58	C	Toluene	40.000	41.778	-4.4	79	0.00	9.34
59		2-Nitropropane	200.000	224.492	-12.2	86	0.00	9.54
60		4-Methyl-2-pentanone	200.000	252.234	-26.1	96	0.00	9.66
		----------	AvgRF	CCRF	%Dev	----------		
61		trans-1,3-Dichloropropene	0.607	0.596	1.8	77	0.00	9.72
62		Tetrachloroethene	0.392	0.449	-14.5	82	0.00	9.74
		----------	Amount	Calc.	%Drift	----------		
63		Ethyl methacrylate	40.000	41.352	-3.4	81	0.00	9.82
64		1,1,2-Trichloroethane	40.000	39.779	0.6	76	0.00	9.88
		----------	AvgRF	CCRF	%Dev	----------		
65		Dibromochloromethane	0.414	0.357	13.8	68	0.00	10.08
66		1,3-Dichloropropane	0.654	0.661	-1.1	78	0.00	10.17
67		1,2-Dibromoethane	0.374	0.345	7.8	72	0.00	10.34
		----------	Amount	Calc.	%Drift	----------		
68		2-hexanone	200.000	245.254	-22.6	95	0.00	10.47
69		1-Chlorohexane	40.000	41.735	-4.3	79	0.00	10.78
70	C	Ethylbenzene	40.000	44.016	-10.0	82	0.00	10.85
71	P	Chlorobenzene	40.000	41.205	-3.0	79	0.00	10.85
		----------	AvgRF	CCRF	%Dev	----------		
72		1,1,1,2-Tetrachloroethane	0.408	0.366	10.3	71	0.00	10.89
		----------	Amount	Calc.	%Drift	----------		
73		m,p-Xylene	80.000	89.897	-12.4	83	0.00	10.98
74		o-Xylene	40.000	40.725	-1.8	78	0.00	11.42
75		Styrene	40.000	37.999	5.0	73	0.00	11.47
		----------	AvgRF	CCRF	%Dev	----------		
76	P	Bromoform	0.250	0.188	24.8	60	0.00	11.54
		----------	Amount	Calc.	%Drift	----------		
77		Isopropylbenzene	40.000	40.905	-2.3	77	0.00	11.72
		----------	AvgRF	CCRF	%Dev	----------		
78	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	0.00	13.19
79	S	4-Bromofluorobenzene	1.061	1.148	-8.2	78	0.00	12.04
		----------	Amount	Calc.	%Drift	----------		
80		cis-1,4-Dichloro-2-butene	40.000	28.577	28.6	53	0.00	12.07
81		n-Propylbenzene	40.000	48.817	-22.0	81	0.00	12.15
82		Bromobenzene	40.000	39.571	1.1	70	0.00	12.16
83	P	1,1,2,2-Tetrachloroethane	40.000	42.905	-7.3	76	0.00	12.21
84		1,3,5-Trimethylbenzene	40.000	46.460	-16.2	80	0.00	12.33
85		2-Chlorotoluene	40.000	47.365	-18.4	80	0.00	12.33
86		trans-1,4-Dichloro-2-Bute	40.000	31.403	21.5	57	0.00	12.39
87		1,2,3-Trichloropropane	40.000	40.587	-1.5	71	0.00	12.36
88		Cyclohexanone	200.000	265.283	-32.6	98	0.00	12.43
89		4-Chlorotoluene	40.000	44.652	-11.6	77	0.00	12.50
90		a-Methyl Styrene	40.000	41.554	-3.9	75	0.00	12.59

Continuing Calibration Summary

Job Number: FA35362 **Sample:** VJ5370-ECC5368
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** J0978056.D
Project: BMSMC, Building 5 Area, Humacao, PR

91	tert-Butylbenzene	40.000	45.054	-12.6	77	0.00	12.67
92	1,2,4-Trimethylbenzene	40.000	44.947	-12.4	77	0.00	12.73
93	Pentachloroethane	40.000	25.845	35.4	50	0.00	12.72
94	sec-Butylbenzene	40.000	46.851	-17.1	79	0.00	12.85
95	4-Isopropyltoluene	40.000	43.791	-9.5	75	0.00	12.98
96	1,3-Dichlorobenzene	40.000	39.654	0.9	70	0.00	13.12
97	1,4-Dichlorobenzene	40.000	40.837	-2.1	72	0.00	13.20
98	n-Butylbenzene	40.000	44.898	-12.2	77	0.00	13.42
99	Benzyl Chloride	40.000	32.618	18.5	59	0.00	13.43
100	1,2-Dichlorobenzene	40.000	38.710	3.2	69	0.00	13.63
	----------	AvgRF	CCRF	%Dev	----------		
101	1,2-Dibromo-3-Chloropropa	0.175	0.169	3.4	71	0.00	14.37
102	Hexachlorobutadiene	0.492	0.444	9.8	64	0.00	14.91
	----------	Amount	Calc.	%Drift	----------		
103	1,2,4-Trichlorobenzene	40.000	36.521	8.7	65	0.00	14.96
104	Naphthalene	40.000	39.630	0.9	70	0.00	15.24
105	1,2,3-Trichlorobenzene	40.000	35.707	10.7	63	0.00	15.41
	----------	AvgRF	CCRF	%Dev	----------		
106 I	Tert Butyl Alcohol-d10	1.000	1.000	0.0	96	0.00	5.28
	----------	Amount	Calc.	%Drift	----------		
107	Ethanol	800.000	857.991	-7.2	106	0.00	4.27
108	acrolein	200.000	166.853	16.6	86	0.00	4.74
109	Tert Butyl Alcohol	400.000	389.254	2.7	93	0.00	5.36
110	tert Amyl alcohol	400.000	366.008	8.5	87	0.00	7.56
111	Isobutyl alcohol	800.000	815.409	-1.9	101	0.00	7.43
112	1,4-Dioxane	800.000	869.834	-8.7	104	0.00	8.66
113	3,3-Dimethyl-1-butanol	2000.000	1847.714	7.6	93	0.00	10.42

(#) = Out of Range SPCC's out = 0 CCC's out = 0
J0977975.D MSJ071216a.M Fri Jul 15 11:27:01 2016

6.7.4 6

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978032.D
Acq On : 14 Jul 2016 10:36 am
Operator : darshnap
Sample : fa35362-1 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 11:34:17 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	2711409	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1870848	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	940065	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	275809	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	727266	51.32	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.64%			
46) 1,2-Dichloroethane-d4	7.458	65	1025768	53.58	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.16%			
57) Toluene-d8	9.279	98	2579046	51.22	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.44%			
79) 4-Bromofluorobenzene	12.041	95	1086323	54.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.94%			
Target Compounds						Qvalue
13) Carbon Disulfide	4.467	76	17532	0.33	ug/L	63
21) Methyl Tert Butyl Ether	5.307	73	513884	10.07	ug/L	84
32) Cyclohexane	6.712	56	8399	0.28	ug/L #	74
109) Tert Butyl Alcohol	5.354	59	650913	487.09	ug/L	83

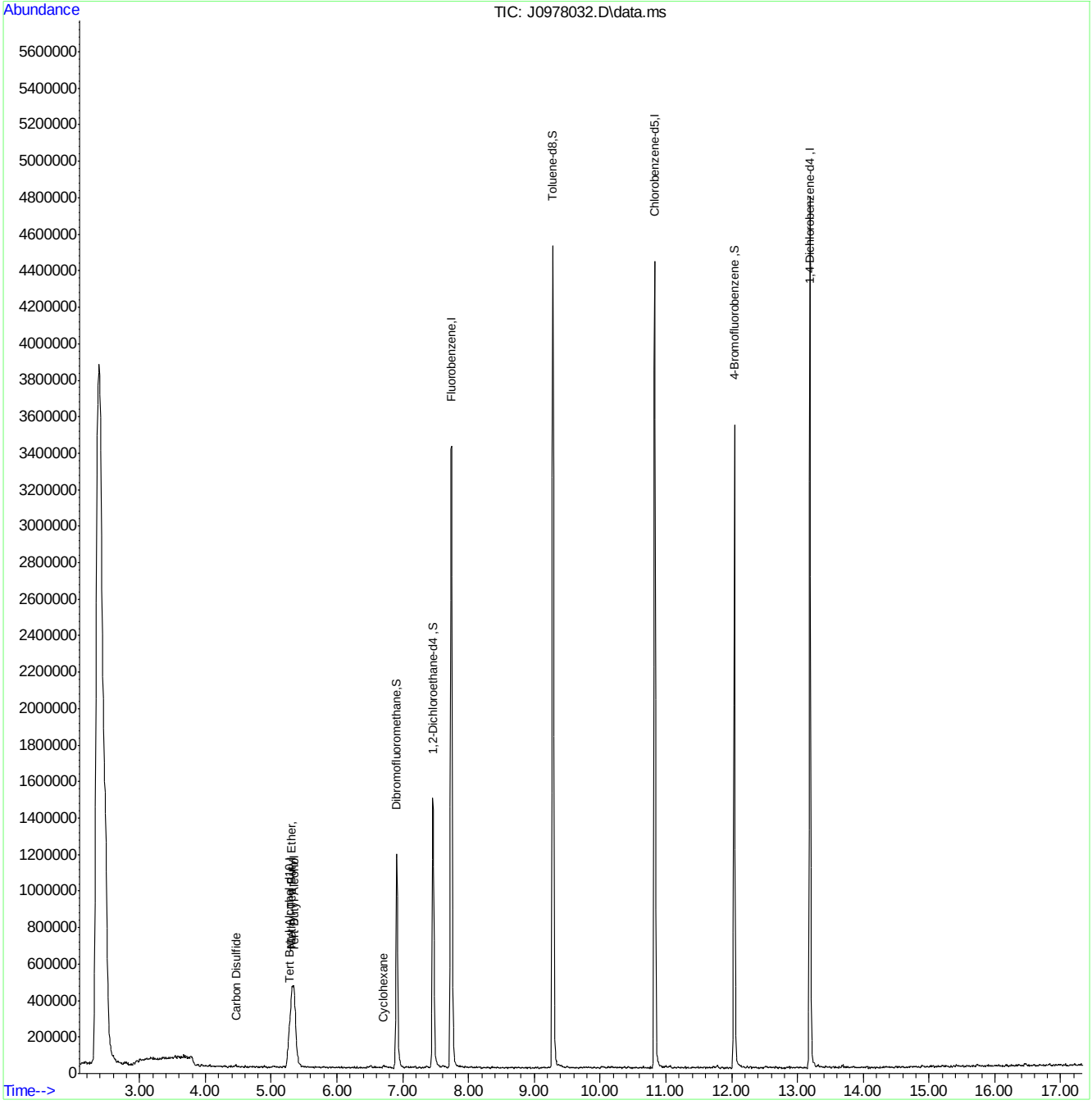
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA35362

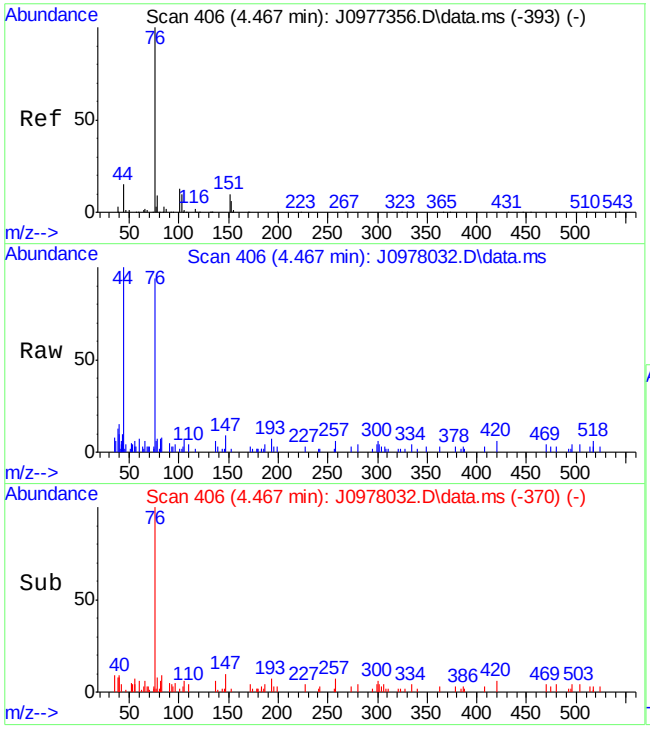
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978032.D
Acq On : 14 Jul 2016 10:36 am
Operator : darshnap
Sample : fa35362-1 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 11:34:17 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



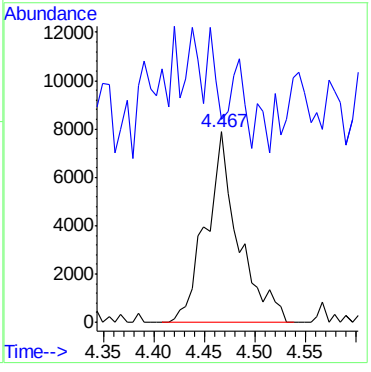
MSJ071216a.M Thu Jul 14 11:41:23 2016 Page: 2

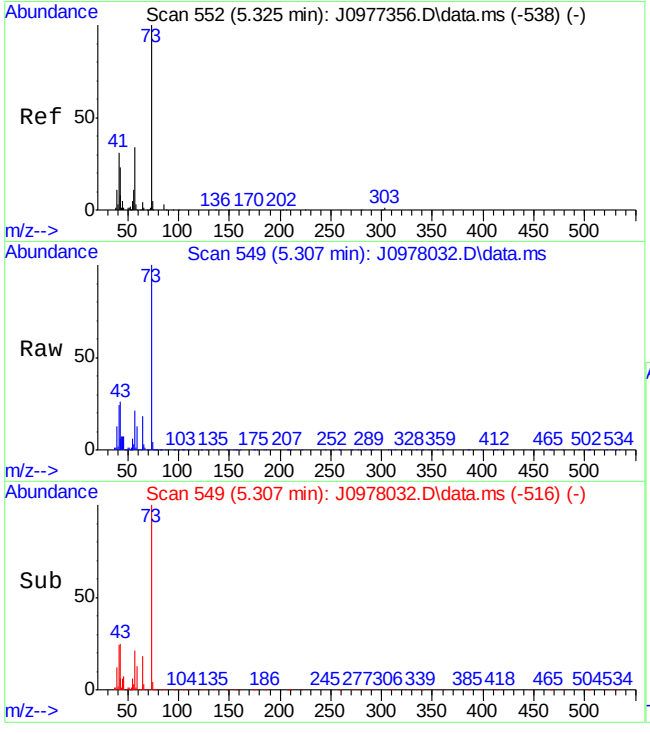


#13
Carbon Disulfide
Concen: 0.33 ug/L
RT: 4.467 min Scan# 406
Delta R.T. 0.012 min
Lab File: J0978032.D
Acq: 14 Jul 2016 10:36 am

Tgt Ion: 76 Resp: 17532

Ion	Ratio	Lower	Upper
76	100		
44	0.0	0.0	45.3

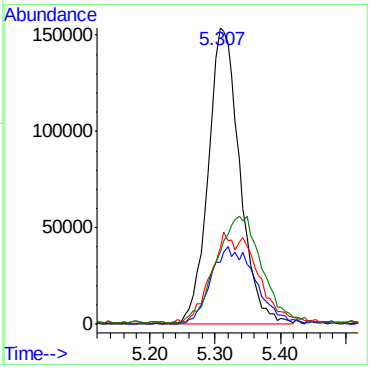


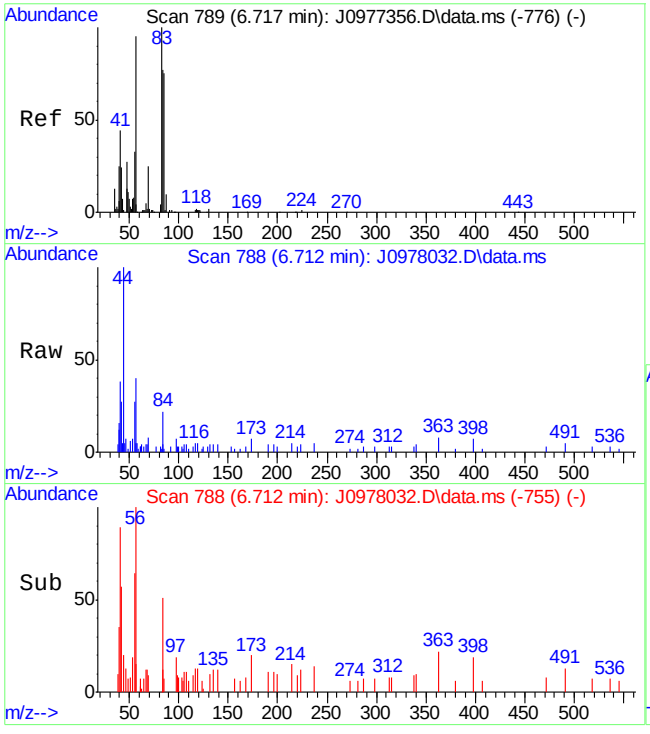


#21
Methyl Tert Butyl Ether
Concen: 10.07 ug/L
RT: 5.307 min Scan# 549
Delta R.T. -0.006 min
Lab File: J0978032.D
Acq: 14 Jul 2016 10:36 am

Tgt Ion: 73 Resp: 513884

Ion	Ratio	Lower	Upper
73	100		
57	21.0	4.8	64.8
43	25.1	1.5	61.5
41	23.6	0.9	60.9

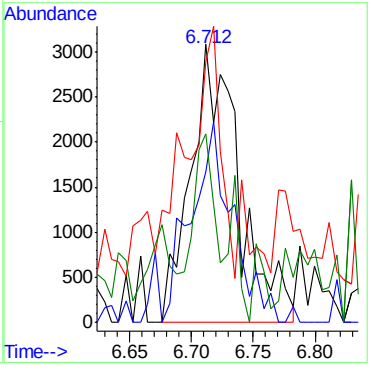


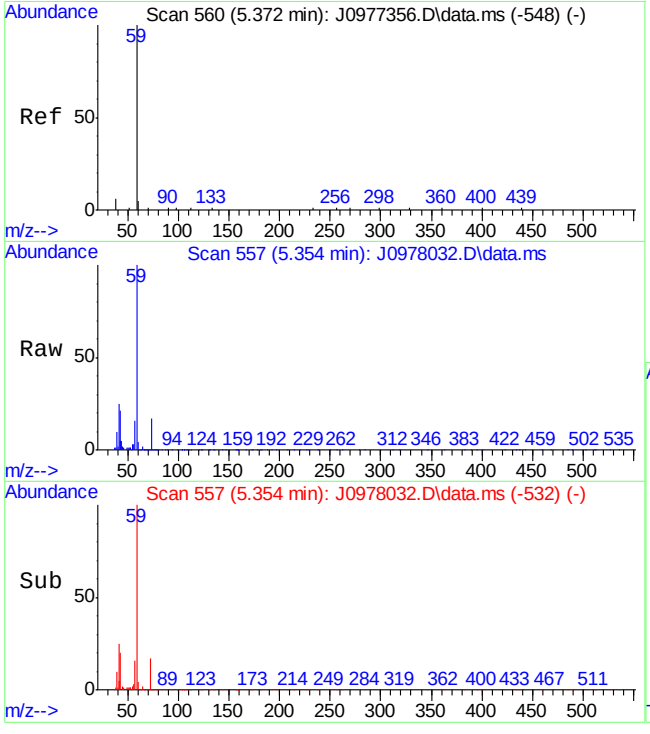


#32
Cyclohexane
Concen: 0.28 ug/L
RT: 6.712 min Scan# 788
Delta R.T. -0.005 min
Lab File: J0978032.D
Acq: 14 Jul 2016 10:36 am

Tgt Ion: 56 Resp: 8399

Ion	Ratio	Lower	Upper
56	100		
84	47.8	66.6	106.6#
41	54.0	42.0	82.0
55	45.5	18.0	58.0

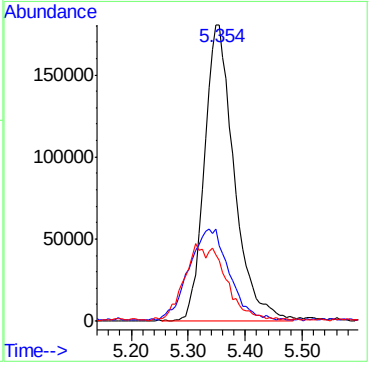




#109
Tert Butyl Alcohol
Concen: 487.09 ug/L
RT: 5.354 min Scan# 557
Delta R.T. -0.006 min
Lab File: J0978032.D
Acq: 14 Jul 2016 10:36 am

Tgt Ion: 59 Resp: 650913

Ion	Ratio	Lower	Upper
59	100		
41	24.9	14.0	54.0
43	20.2	10.5	50.5



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978033.D
Acq On : 14 Jul 2016 10:59 am
Operator : darshnap
Sample : fa35362-2 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:02:54 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	2595568	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1822897	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	924342	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	292712	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	690431	50.90	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.80%			
46) 1,2-Dichloroethane-d4	7.458	65	951024	51.90	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.80%			
57) Toluene-d8	9.285	98	2474976	50.44	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.88%			
79) 4-Bromofluorobenzene	12.041	95	1068064	54.46	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.92%			
Target Compounds						Qvalue
9) Ethyl Ether	4.103	59	184766	12.99	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.320	67	73128	4.22	ug/L	80
21) Methyl Tert Butyl Ether	5.313	73	461762	9.45	ug/L	82
23) Di-isopropyl ether	5.695	45	17546	0.29	ug/L	81
32) Cyclohexane	6.717	56	214597	7.48	ug/L	92
33) Chloroform	6.705	83	10251	0.34	ug/L	82
44) Benzene	7.340	78	16841	0.28	ug/L	57
71) Chlorobenzene	10.848	112	302705	7.94	ug/L	83
77) Isopropylbenzene	11.729	105	45485	0.65	ug/L	81
112) 1,4-Dioxane	8.650	88	959098	5903.82	ug/L	96

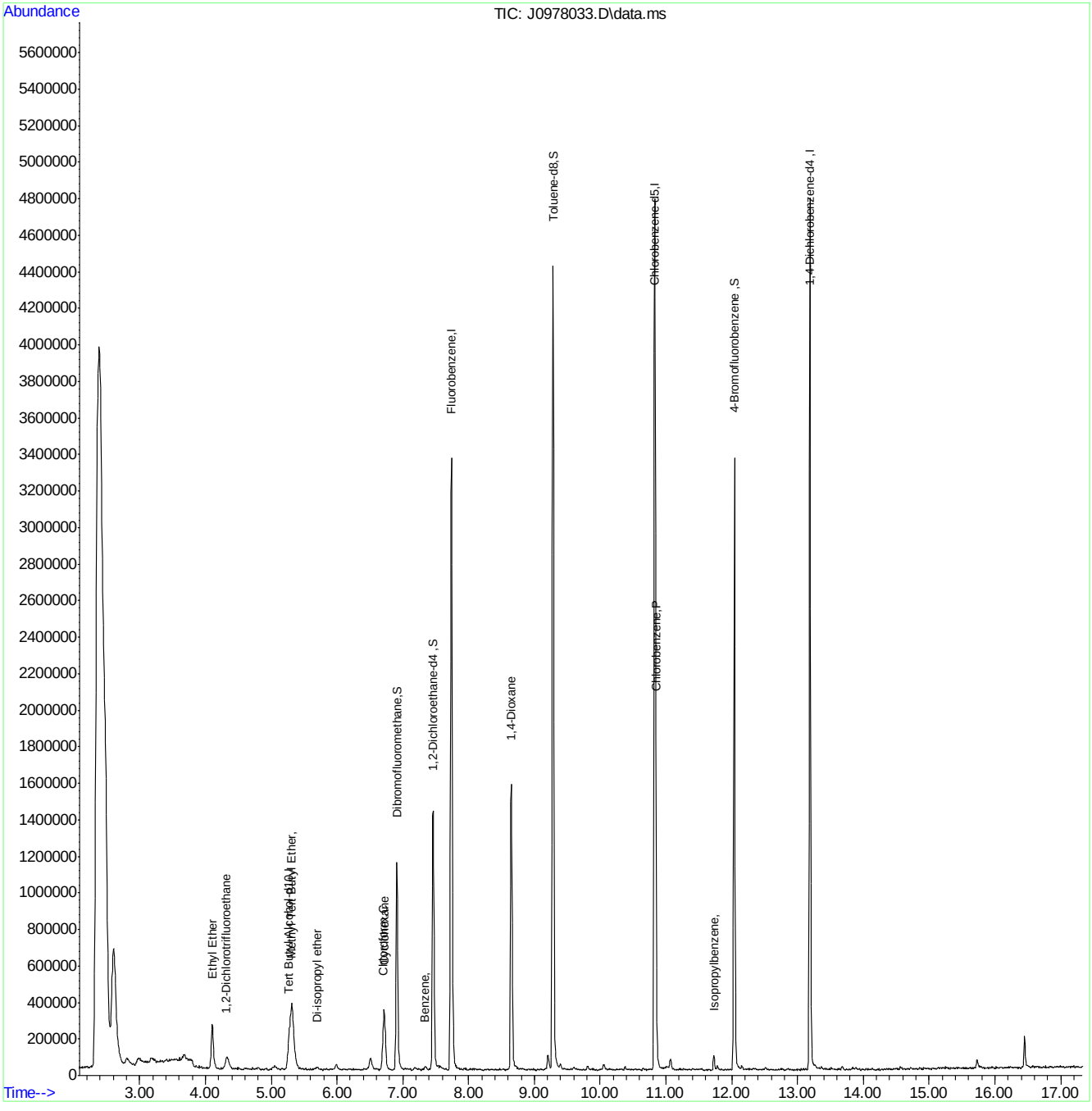
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA35362

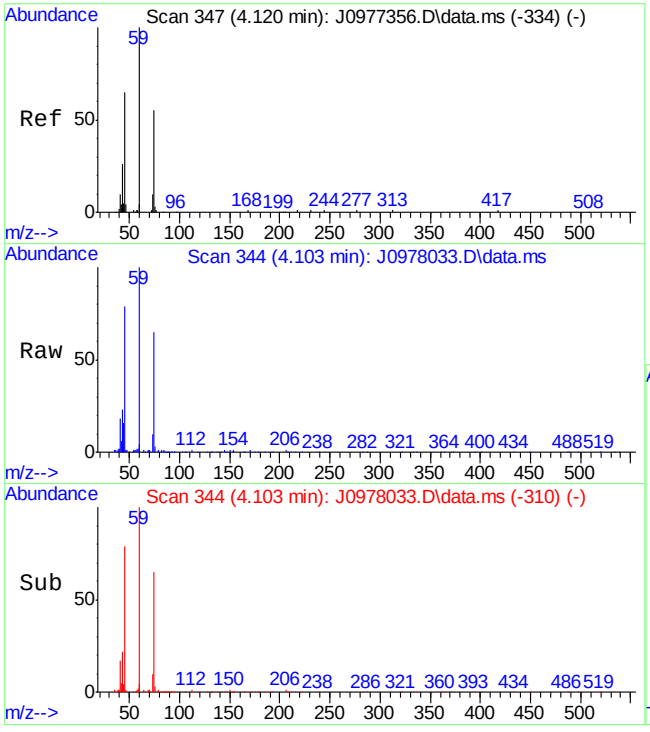
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978033.D
Acq On : 14 Jul 2016 10:59 am
Operator : darshnap
Sample : fa35362-2 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 15:02:54 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



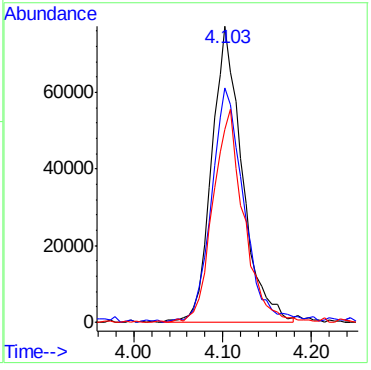
SGS ACCUTEST FA35362

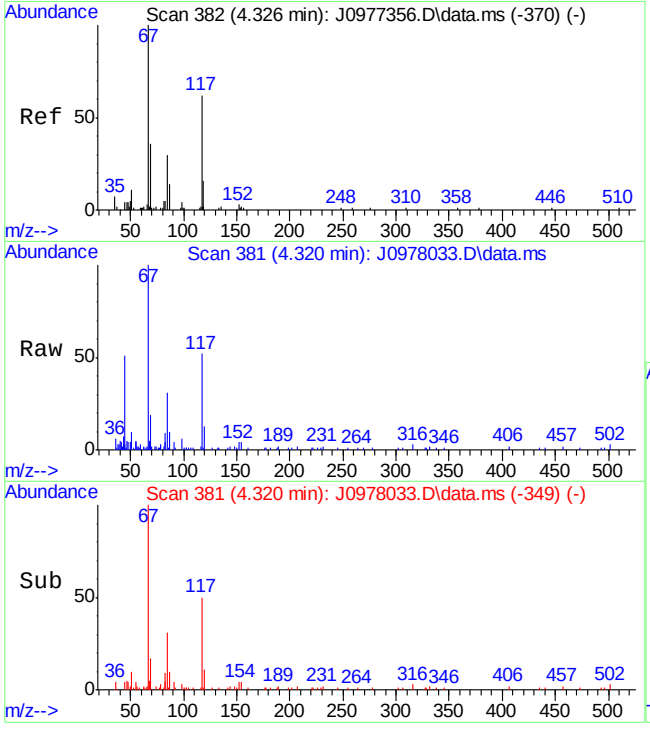


#9
Ethyl Ether
Concen: 12.99 ug/L
RT: 4.103 min Scan# 344
Delta R.T. -0.000 min
Lab File: J0978033.D
Acq: 14 Jul 2016 10:59 am

Tgt Ion: 59 Resp: 184766

Ion	Ratio	Lower	Upper
59	100		
45	79.2	56.6	96.6
74	64.9	48.7	88.7

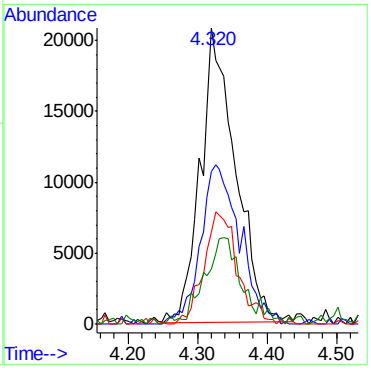




#10
1,2-Dichlorotrifluoroethane
Concen: 4.22 ug/L
RT: 4.320 min Scan# 381
Delta R.T. -0.012 min
Lab File: J0978033.D
Acq: 14 Jul 2016 10:59 am

Tgt Ion: 67 Resp: 73128

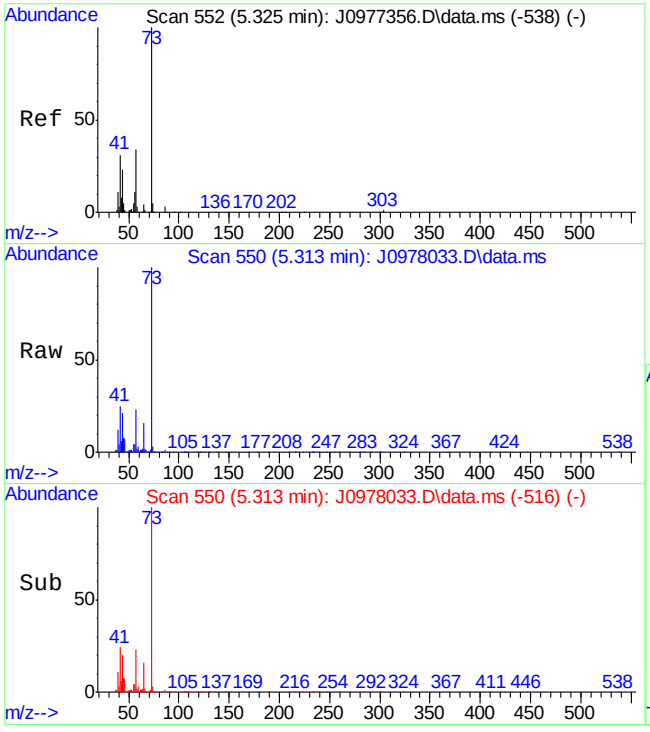
Ion	Ratio	Lower	Upper
67	100		
117	52.0	47.7	87.7
85	30.5	20.8	60.8
69	18.8	13.4	53.4



7.1.2

7

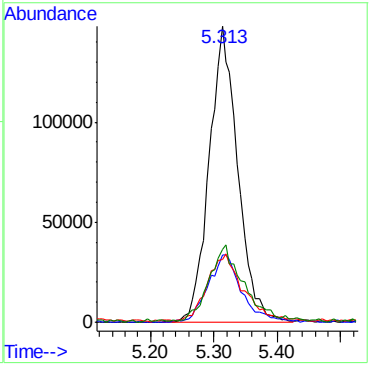
SGS ACCUTEST FA35362

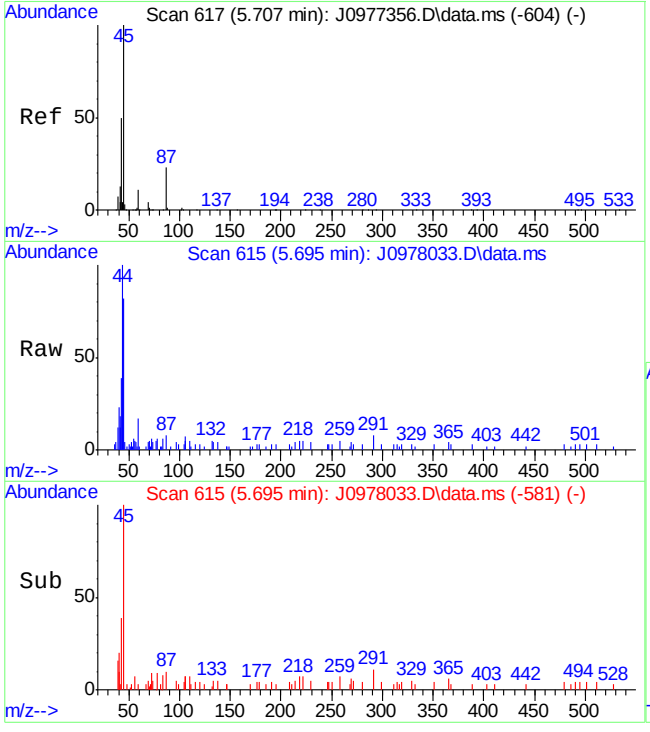


#21
Methyl Tert Butyl Ether
Concen: 9.45 ug/L
RT: 5.313 min Scan# 550
Delta R.T. -0.000 min
Lab File: J0978033.D
Acq: 14 Jul 2016 10:59 am

Tgt Ion: 73 Resp: 461762

Ion	Ratio	Lower	Upper
73	100		
57	22.8	4.8	64.8
43	20.7	1.5	61.5
41	23.9	0.9	60.9

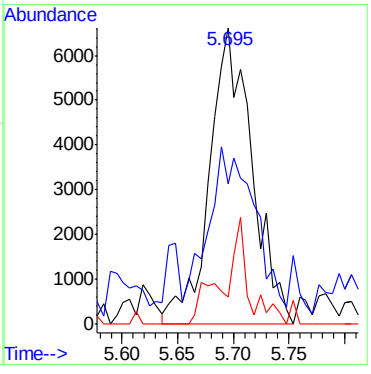


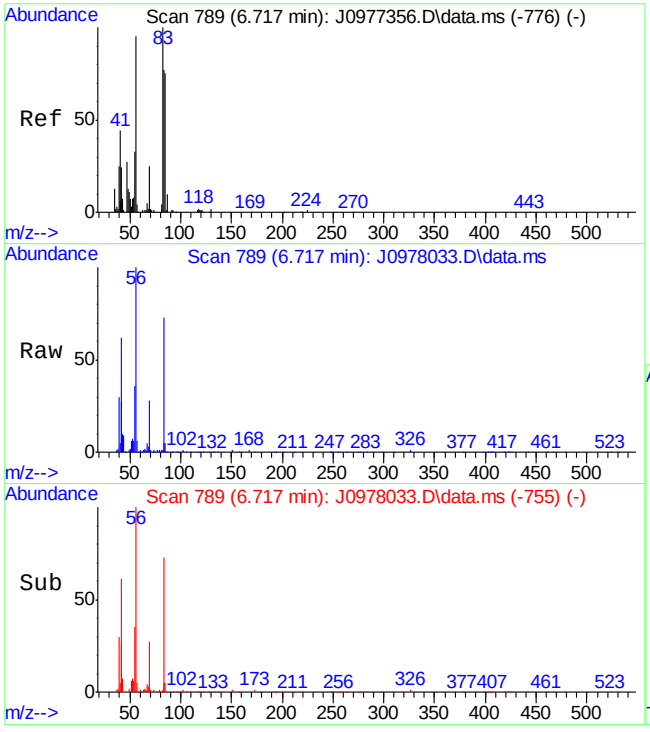


#23
Di-isopropyl ether
Concen: 0.29 ug/L
RT: 5.695 min Scan# 615
Delta R.T. -0.000 min
Lab File: J0978033.D
Acq: 14 Jul 2016 10:59 am

Tgt Ion: 45 Resp: 17546

Ion	Ratio	Lower	Upper
45	100		
43	40.0	18.1	78.1
87	9.2	0.0	55.0

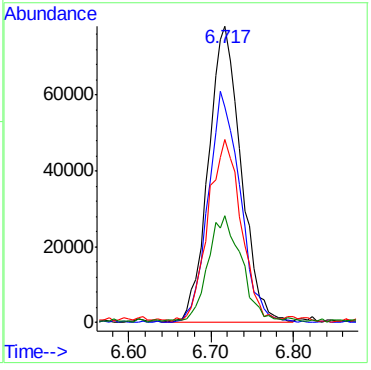


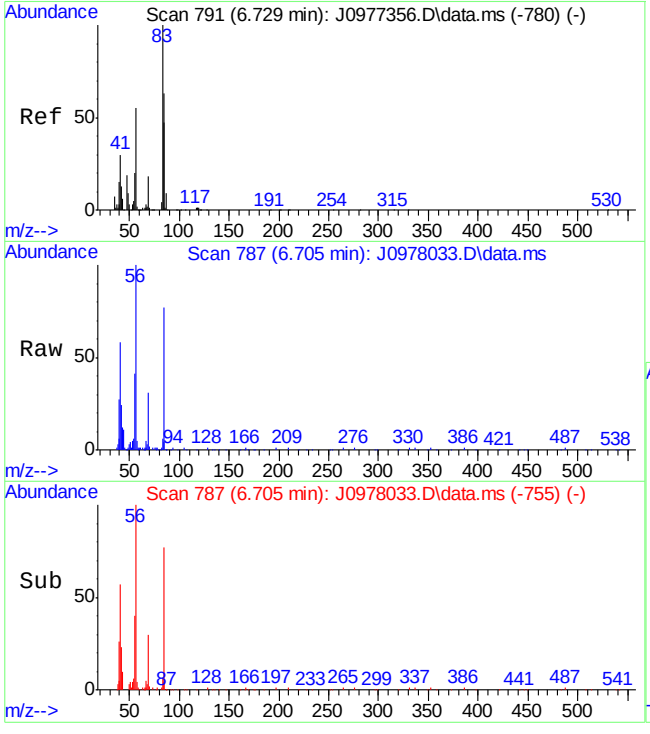


#32
Cyclohexane
Concen: 7.48 ug/L
RT: 6.717 min Scan# 789
Delta R.T. 0.000 min
Lab File: J0978033.D
Acq: 14 Jul 2016 10:59 am

Tgt Ion: 56 Resp: 214597

Ion	Ratio	Lower	Upper
56	100		
84	72.8	66.6	106.6
41	60.9	42.0	82.0
55	35.3	18.0	58.0

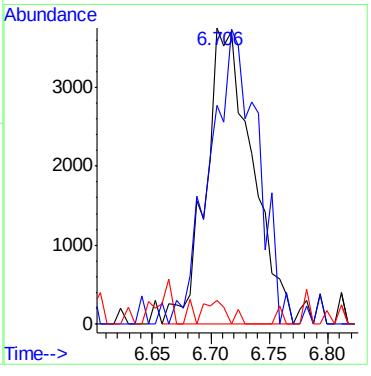


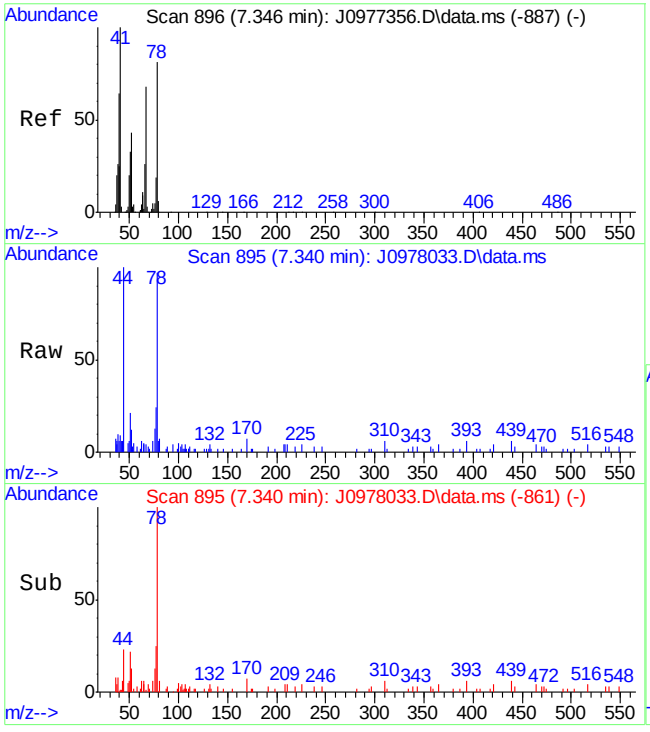


#33
Chloroform
Concen: 0.34 ug/L
RT: 6.705 min Scan# 787
Delta R.T. -0.011 min
Lab File: J0978033.D
Acq: 14 Jul 2016 10:59 am

Tgt Ion: 83 Resp: 10251

Ion	Ratio	Lower	Upper
83	100		
85	73.9	34.8	94.8
47	7.9	0.0	55.7

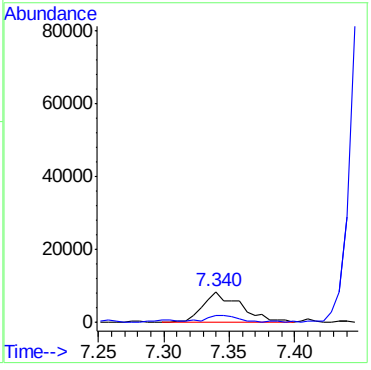


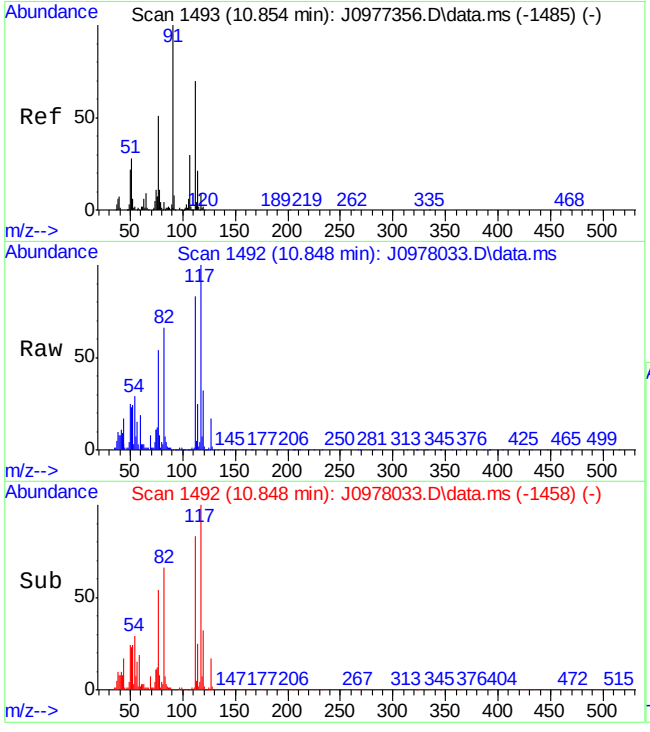


#44
Benzene
Concen: 0.28 ug/L
RT: 7.340 min Scan# 895
Delta R.T. 0.000 min
Lab File: J0978033.D
Acq: 14 Jul 2016 10:59 am

Tgt Ion: 78 Resp: 16841

Ion	Ratio	Lower	Upper
78	100		
51	16.0	13.4	73.4

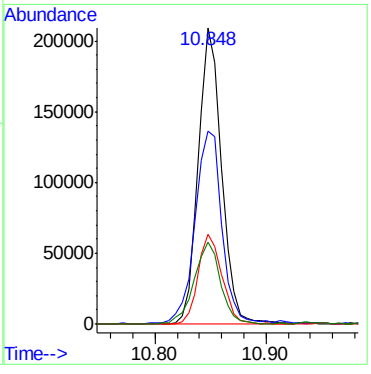


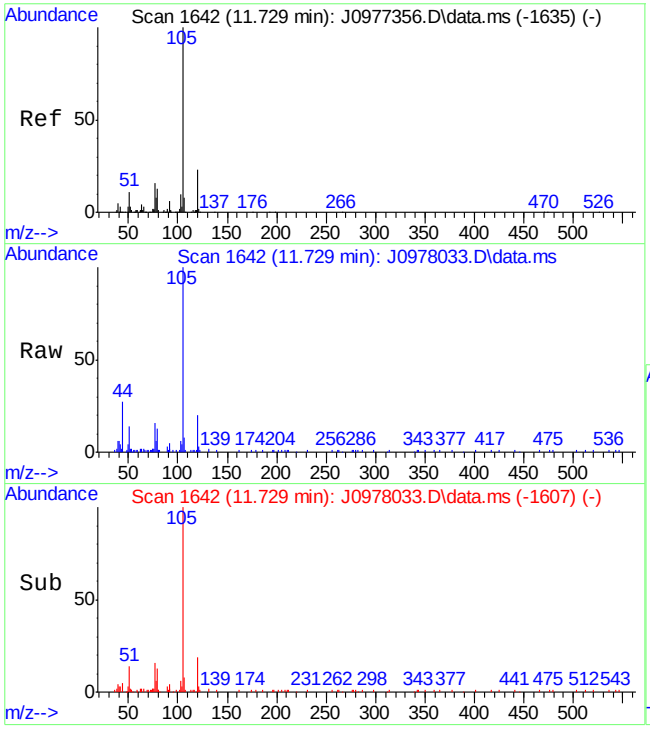


#71
Chlorobenzene
Concen: 7.94 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. -0.000 min
Lab File: J0978033.D
Acq: 14 Jul 2016 10:59 am

Tgt Ion:112 Resp: 302705

Ion	Ratio	Lower	Upper
112	100		
77	64.7	49.6	109.6
114	30.2	4.7	64.7
51	27.6	13.7	73.7

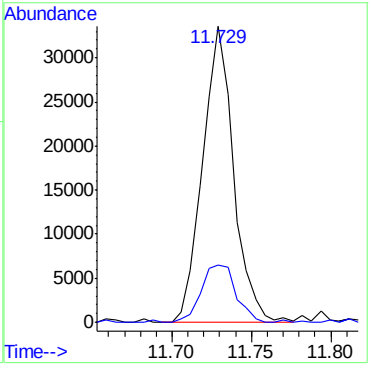


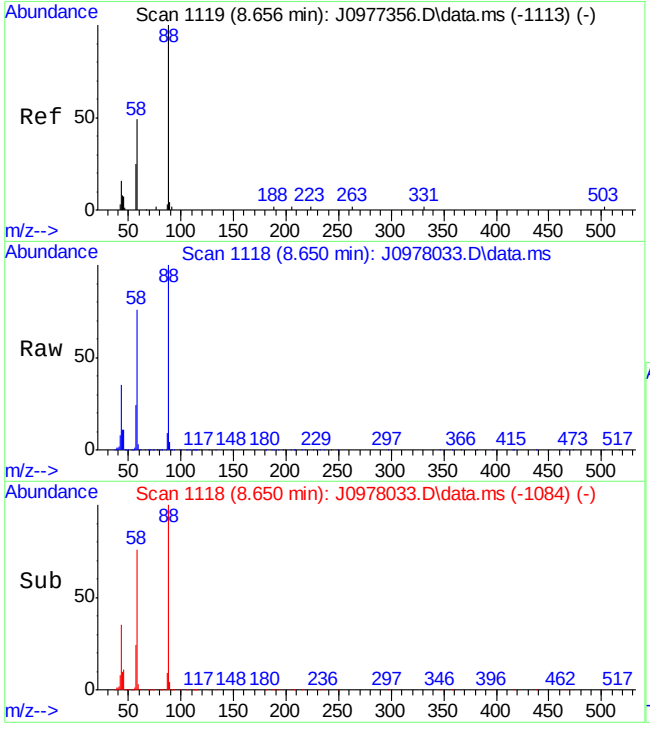


#77
Isopropylbenzene
Concen: 0.65 ug/L
RT: 11.729 min Scan# 1642
Delta R.T. 0.006 min
Lab File: J0978033.D
Acq: 14 Jul 2016 10:59 am

Tgt Ion:105 Resp: 45485

Ion	Ratio	Lower	Upper
105	100		
120	19.5	0.0	59.7

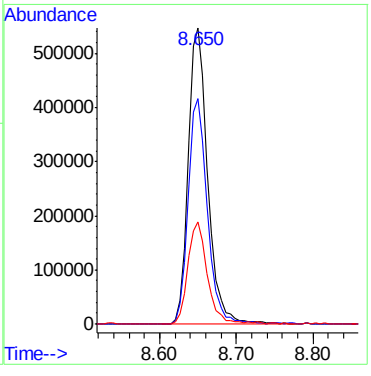




#112
1,4-Dioxane
Concen: 5903.82 ug/L
RT: 8.650 min Scan# 1118
Delta R.T. -0.001 min
Lab File: J0978033.D
Acq: 14 Jul 2016 10:59 am

Tgt Ion: 88 Resp: 959098

Ion	Ratio	Lower	Upper
88	100		
58	76.2	41.7	101.7
43	34.6	4.2	64.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978034.D
Acq On : 14 Jul 2016 11:22 am
Operator : darshnap
Sample : fa35362-3 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 11:41:00 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	2520611	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1781691	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	888339	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	298426	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	670040	50.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.72%			
46) 1,2-Dichloroethane-d4	7.458	65	958049	53.83	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.66%			
57) Toluene-d8	9.285	98	2448971	51.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.14%			
79) 4-Bromofluorobenzene	12.035	95	1033847	54.86	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.72%			
Target Compounds						Qvalue
9) Ethyl Ether	4.097	59	17453	1.26	ug/L #	76
10) 1,2-Dichlorotrifluoroe...	4.320	67	8441	0.50	ug/L #	80
13) Carbon Disulfide	4.461	76	12874	0.26	ug/L	44
21) Methyl Tert Butyl Ether	5.307	73	324305	6.83	ug/L	89
29) cis-1,2-Dichloroethene	6.470	96	4443	0.26	ug/L #	48
32) Cyclohexane	6.723	56	17712	0.63	ug/L #	72
71) Chlorobenzene	10.848	112	51667	1.37	ug/L	94
109) Tert Butyl Alcohol	5.354	59	148033	100.79	ug/L	95
112) 1,4-Dioxane	8.650	88	412907	3107.52	ug/L	94

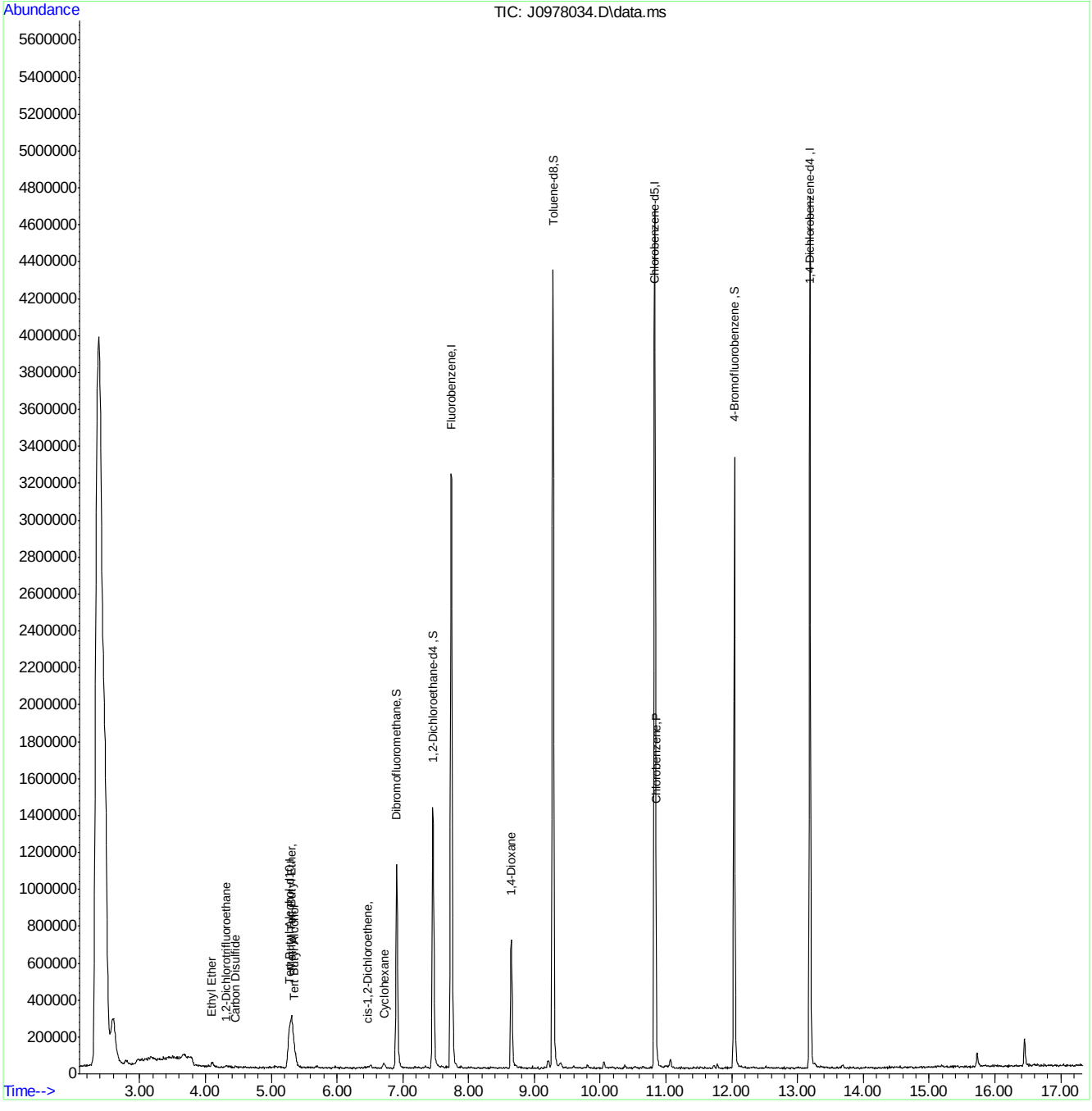
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA35362

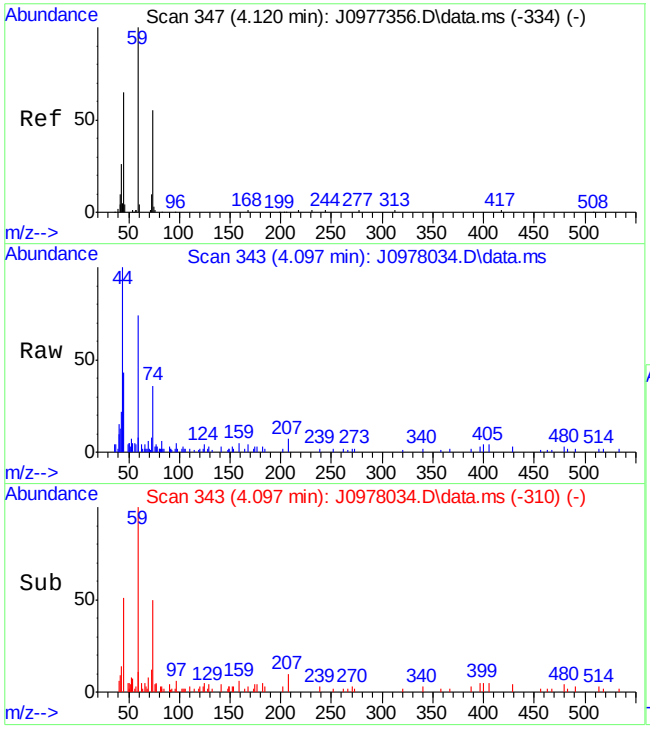
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978034.D
Acq On : 14 Jul 2016 11:22 am
Operator : darshnap
Sample : fa35362-3 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 14 11:41:00 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



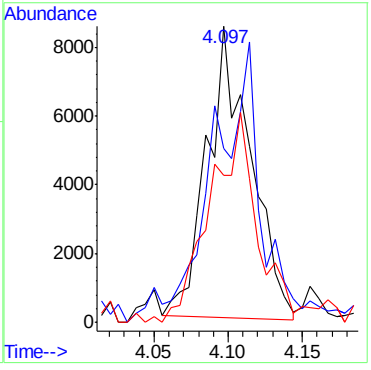
MSJ071216a.M Thu Jul 14 11:41:29 2016 Page: 2

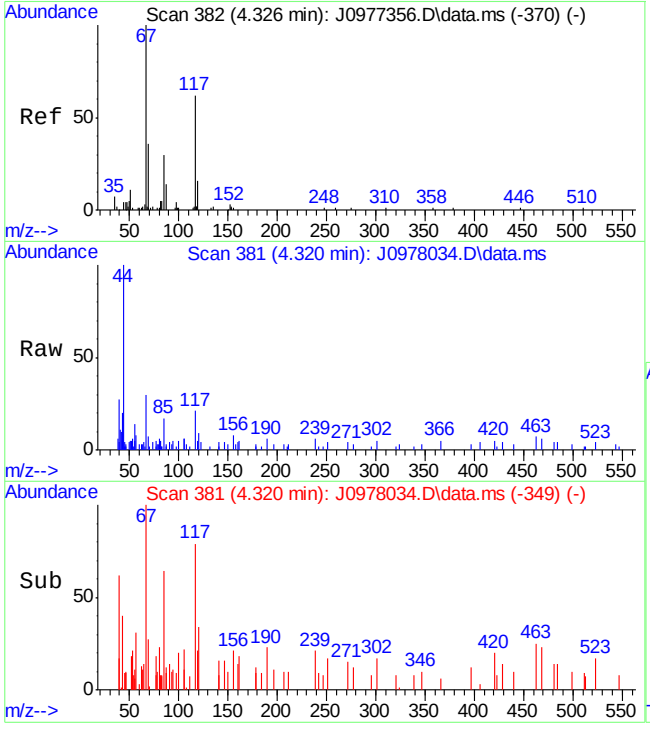


#9
Ethyl Ether
Concen: 1.26 ug/L
RT: 4.097 min Scan# 343
Delta R.T. -0.006 min
Lab File: J0978034.D
Acq: 14 Jul 2016 11:22 am

Tgt Ion: 59 Resp: 17453

Ion	Ratio	Lower	Upper
59	100		
45	54.1	56.6	96.6#
74	50.8	48.7	88.7

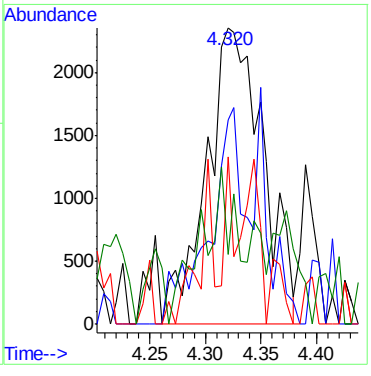


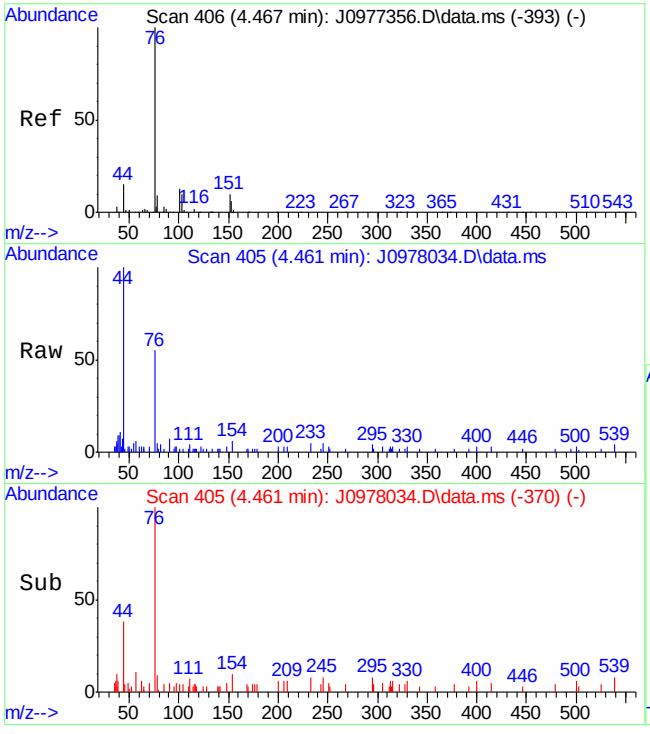


#10
1,2-Dichlorotrifluoroethane
Concen: 0.50 ug/L
RT: 4.320 min Scan# 381
Delta R.T. -0.012 min
Lab File: J0978034.D
Acq: 14 Jul 2016 11:22 am

Tgt Ion: 67 Resp: 8441

Ion	Ratio	Lower	Upper
67	100		
117	69.0	47.7	87.7
85	56.4	20.8	60.8
69	4.5	13.4	53.4#

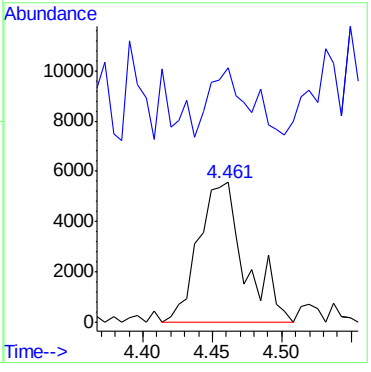


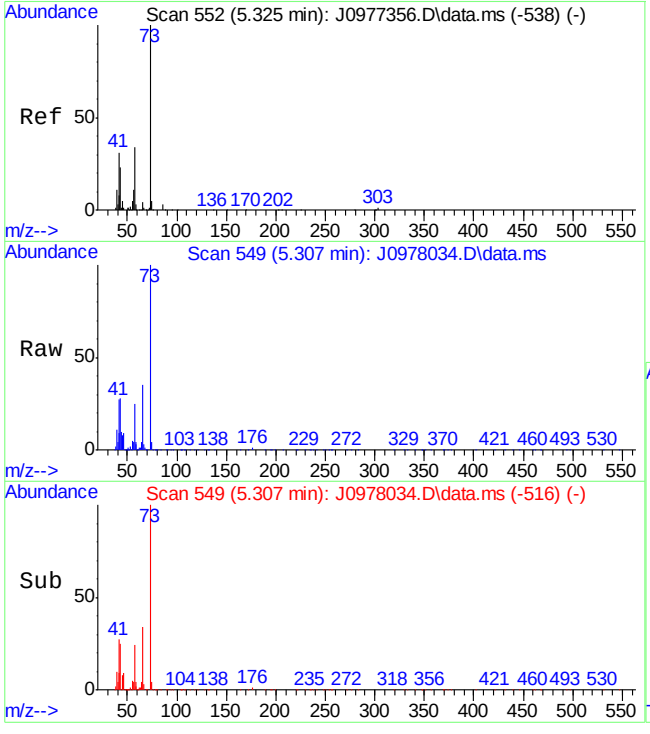


#13
Carbon Disulfide
Concen: 0.26 ug/L
RT: 4.461 min Scan# 405
Delta R.T. 0.006 min
Lab File: J0978034.D
Acq: 14 Jul 2016 11:22 am

Tgt Ion: 76 Resp: 12874

Ion	Ratio	Lower	Upper
76	100		
44	38.8	0.0	45.3

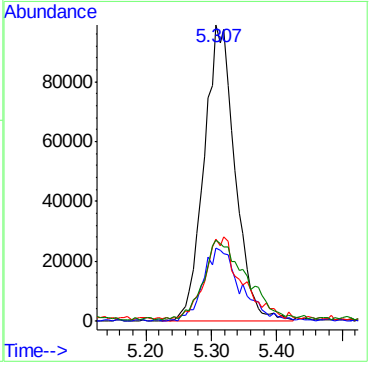


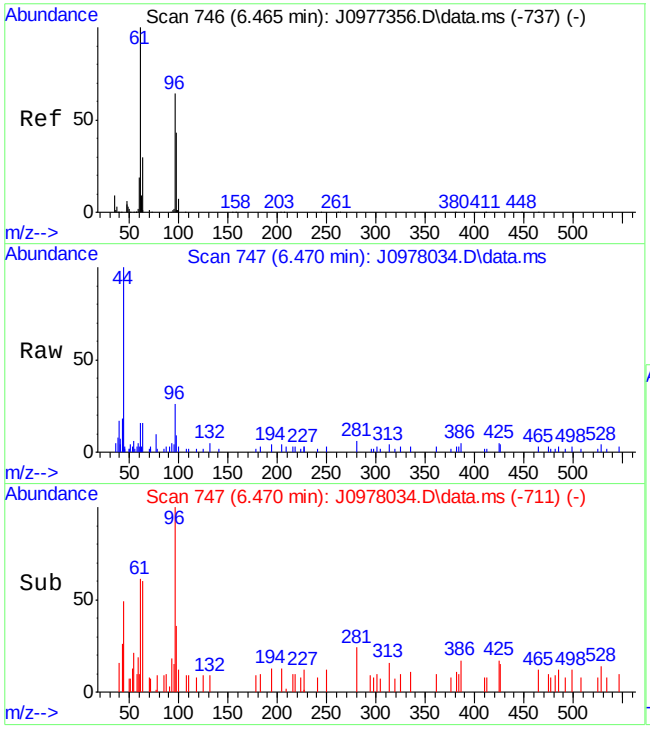


#21
Methyl Tert Butyl Ether
Concen: 6.83 ug/L
RT: 5.307 min Scan# 549
Delta R.T. -0.006 min
Lab File: J0978034.D
Acq: 14 Jul 2016 11:22 am

Tgt Ion: 73 Resp: 324305

Ion	Ratio	Lower	Upper
73	100		
57	24.8	4.8	64.8
43	26.8	1.5	61.5
41	26.8	0.9	60.9

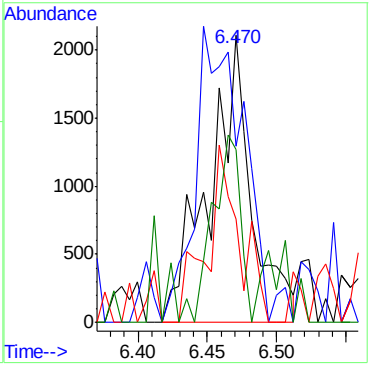


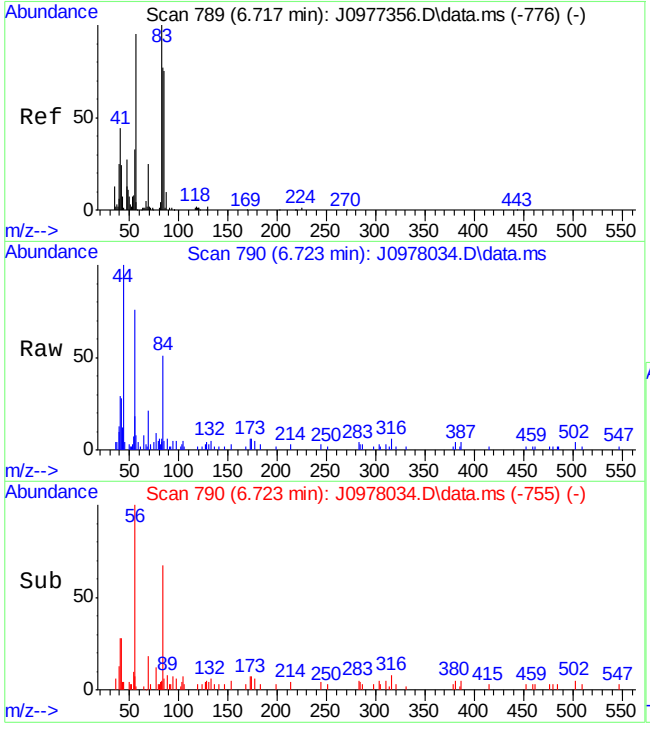


#29
cis-1,2-Dichloroethene
Concen: 0.26 ug/L
RT: 6.470 min Scan# 747
Delta R.T. 0.011 min
Lab File: J0978034.D
Acq: 14 Jul 2016 11:22 am

Tgt Ion: 96 Resp: 4443

Ion	Ratio	Lower	Upper
96	100		
61	61.5	115.3	175.3#
98	35.9	33.1	93.1
63	60.0	14.5	74.5

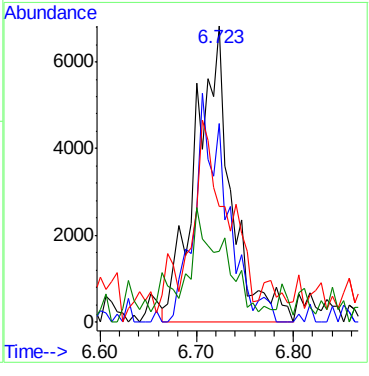


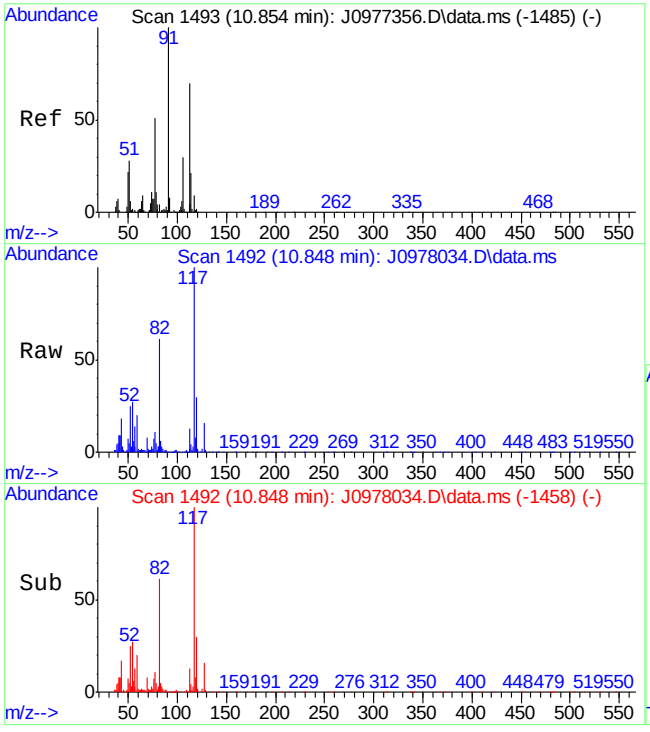


#32
Cyclohexane
Concen: 0.63 ug/L
RT: 6.723 min Scan# 790
Delta R.T. 0.006 min
Lab File: J0978034.D
Acq: 14 Jul 2016 11:22 am

Tgt Ion: 56 Resp: 17712

Ion	Ratio	Lower	Upper
56	100		
84	67.1	66.6	106.6
41	32.1	42.0	82.0#
55	21.6	18.0	58.0

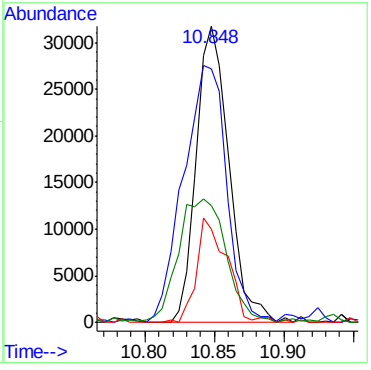


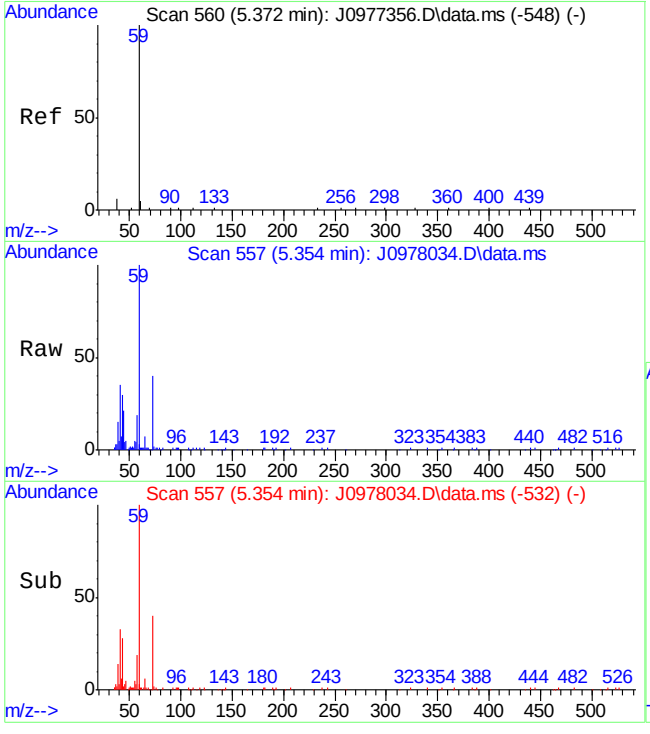


#71
Chlorobenzene
Concen: 1.37 ug/L
RT: 10.848 min Scan# 1492
Delta R.T. -0.000 min
Lab File: J0978034.D
Acq: 14 Jul 2016 11:22 am

Tgt Ion:112 Resp: 51667

Ion	Ratio	Lower	Upper
112	100		
77	83.5	49.6	109.6
114	31.3	4.7	64.7
51	38.6	13.7	73.7

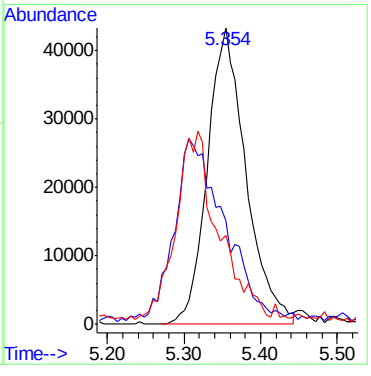


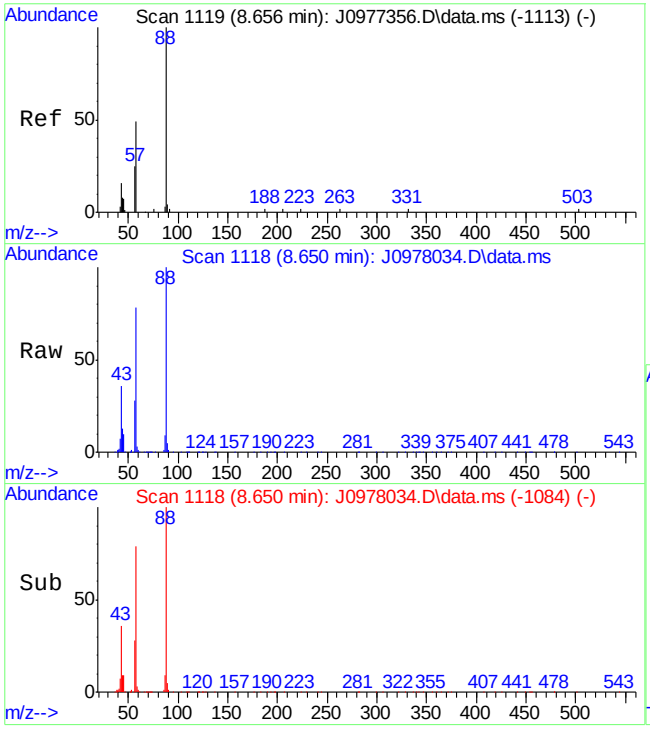


#109
Tert Butyl Alcohol
Concen: 100.79 ug/L
RT: 5.354 min Scan# 557
Delta R.T. -0.006 min
Lab File: J0978034.D
Acq: 14 Jul 2016 11:22 am

Tgt Ion: 59 Resp: 148033

Ion	Ratio	Lower	Upper
59	100		
41	31.0	14.0	54.0
43	27.8	10.5	50.5

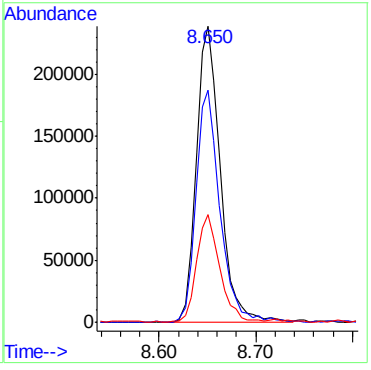




#112
1,4-Dioxane
Concen: 3107.52 ug/L
RT: 8.650 min Scan# 1118
Delta R.T. -0.001 min
Lab File: J0978034.D
Acq: 14 Jul 2016 11:22 am

Tgt Ion: 88 Resp: 412907

Ion	Ratio	Lower	Upper
88	100		
58	78.2	41.7	101.7
43	36.2	4.2	64.2



SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978035.D
Acq On : 14 Jul 2016 11:45 am
Operator : darshnap
Sample : fa35362-4 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 13:01:26 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	2499585	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1699793	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	854673	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	290674	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	667671	51.11	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.22%			
46) 1,2-Dichloroethane-d4	7.464	65	939960	53.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.52%			
57) Toluene-d8	9.285	98	2386626	52.17	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.34%			
79) 4-Bromofluorobenzene	12.041	95	1018178	56.15	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.30%			
Target Compounds						Qvalue
112) 1,4-Dioxane	8.656	88	22093	228.75	ug/L	77

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

7.1.4

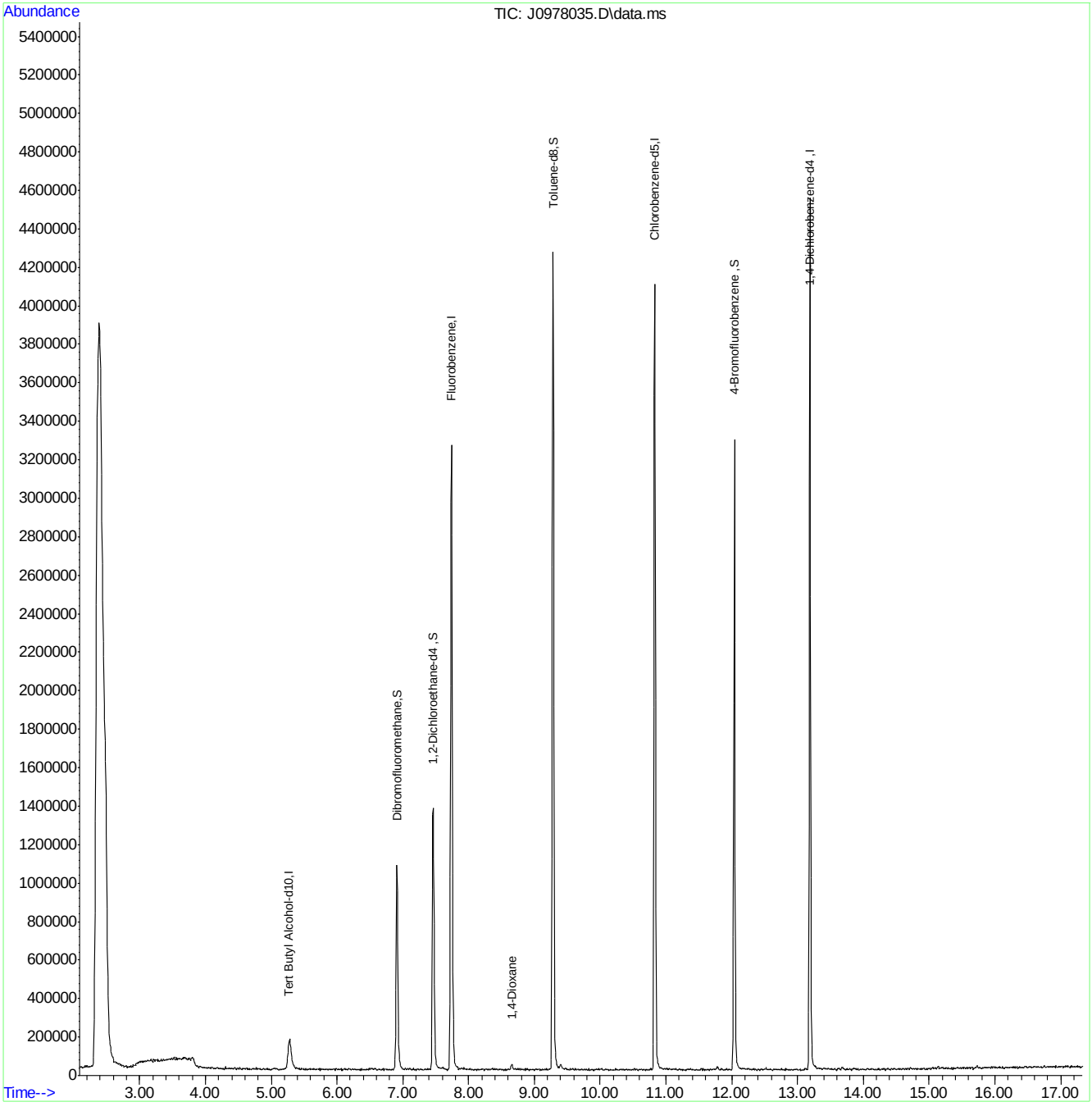
7

SGS ACCUTEST FA35362

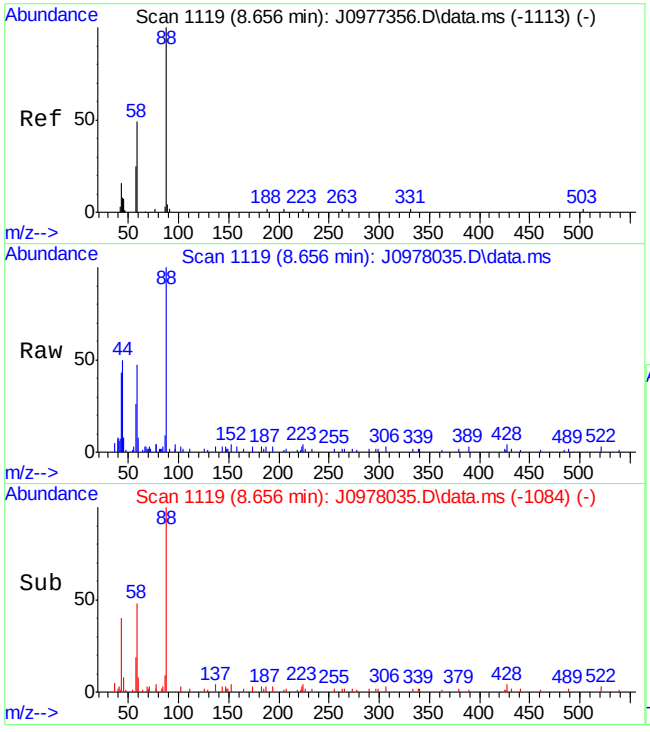
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978035.D
Acq On : 14 Jul 2016 11:45 am
Operator : darshnap
Sample : fa35362-4 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 14 13:01:26 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



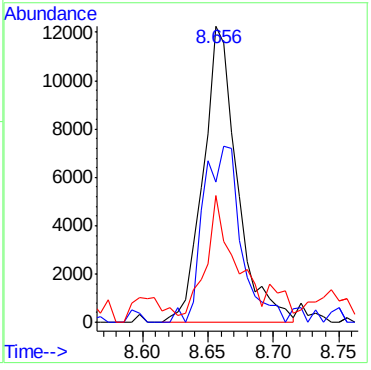
MSJ071216a.M Thu Jul 14 14:12:10 2016 Page: 2



#112
1,4-Dioxane
Concen: 228.75 ug/L
RT: 8.656 min Scan# 1119
Delta R.T. 0.005 min
Lab File: J0978035.D
Acq: 14 Jul 2016 11:45 am

Tgt Ion: 88 Resp: 22093

Ion	Ratio	Lower	Upper
88	100		
58	47.5	41.7	101.7
43	39.5	4.2	64.2



7.1.4

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978036.D
Acq On : 14 Jul 2016 12:08 pm
Operator : darshnap
Sample : fa35362-5 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 13:02:23 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	2426645	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1736792	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	853270	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	297876	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	643325	50.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.46%			
46) 1,2-Dichloroethane-d4	7.463	65	930657	54.32	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.64%			
57) Toluene-d8	9.285	98	2340347	50.06	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.12%			
79) 4-Bromofluorobenzene	12.041	95	1018996	56.29	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.58%			
Target Compounds						Qvalue
17) Acetone	5.060	58	16000	14.98	ug/L	97
35) Tetrahydrofuran	6.911	42	7387	1.86	ug/L	87

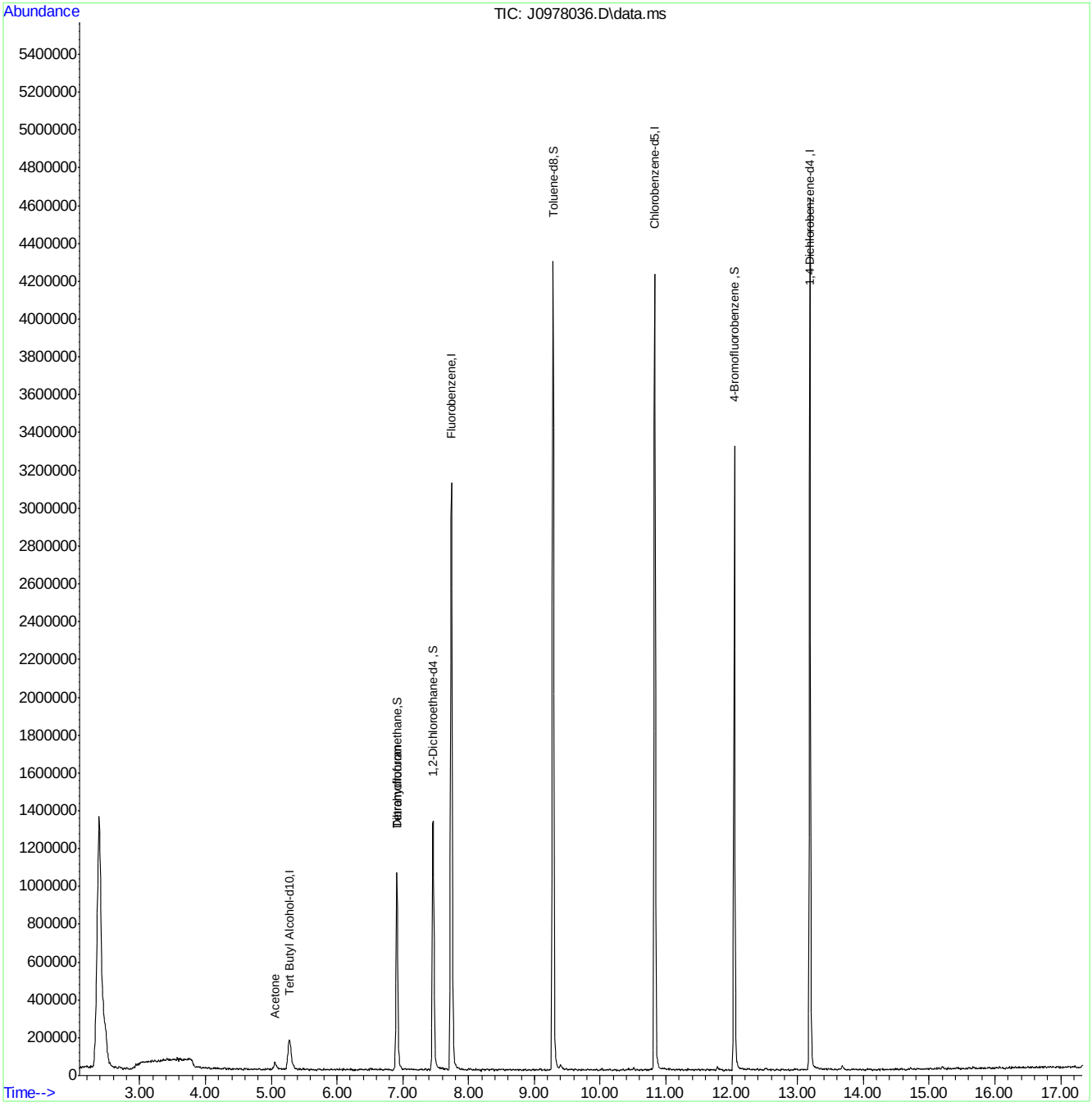
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA35362

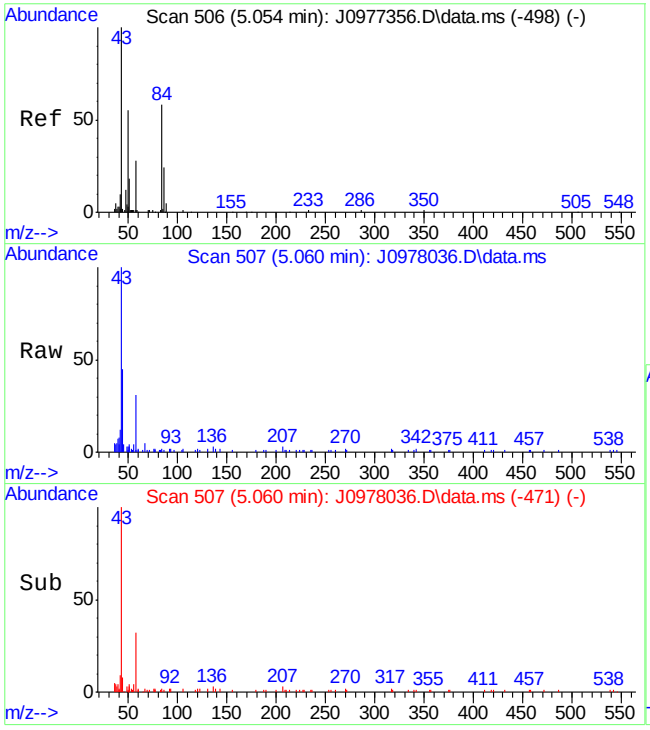
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978036.D
Acq On : 14 Jul 2016 12:08 pm
Operator : darshnap
Sample : fa35362-5 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 14 13:02:23 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



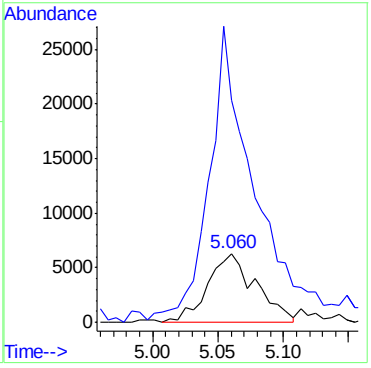
SGS ACCUTEST FA35362

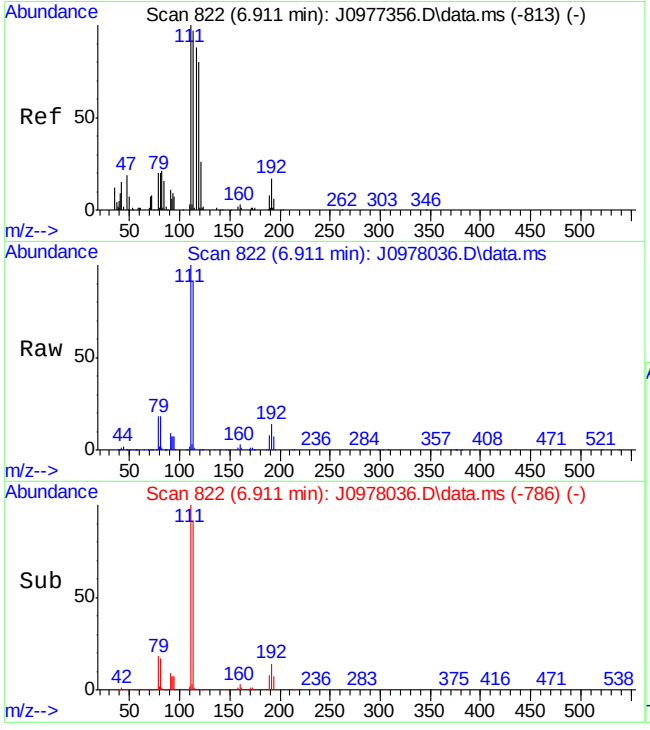


#17
Acetone
Concen: 14.98 ug/L
RT: 5.060 min Scan# 507
Delta R.T. 0.011 min
Lab File: J0978036.D
Acq: 14 Jul 2016 12:08 pm

Tgt Ion: 58 Resp: 16000

Ion	Ratio	Lower	Upper
58	100		
43	309.1	284.8	344.8

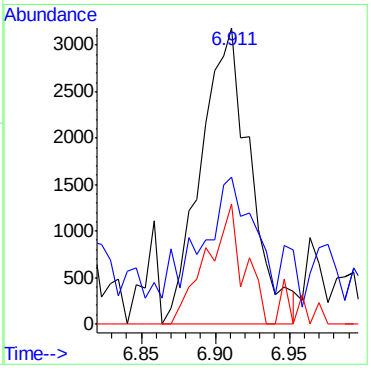




#35
Tetrahydrofuran
Concen: 1.86 ug/L
RT: 6.911 min Scan# 822
Delta R.T. 0.011 min
Lab File: J0978036.D
Acq: 14 Jul 2016 12:08 pm

Tgt Ion: 42 Resp: 7387

Ion	Ratio	Lower	Upper
42	100		
41	40.8	35.7	75.7
72	40.7	19.6	59.6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978037.D
Acq On : 14 Jul 2016 12:31 pm
Operator : darshnap
Sample : fa35362-6 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 14 13:03:37 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	2461214	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1692001	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	824127	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	280361	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	652617	50.74	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.48%			
46) 1,2-Dichloroethane-d4	7.463	65	945648	54.42	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.84%			
57) Toluene-d8	9.285	98	2338899	51.36	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.72%			
79) 4-Bromofluorobenzene	12.041	95	983111	56.23	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 112.46%			
Target Compounds						Qvalue
47) 1,2-Dichloroethane	7.540	62	5007	0.23	ug/L	91

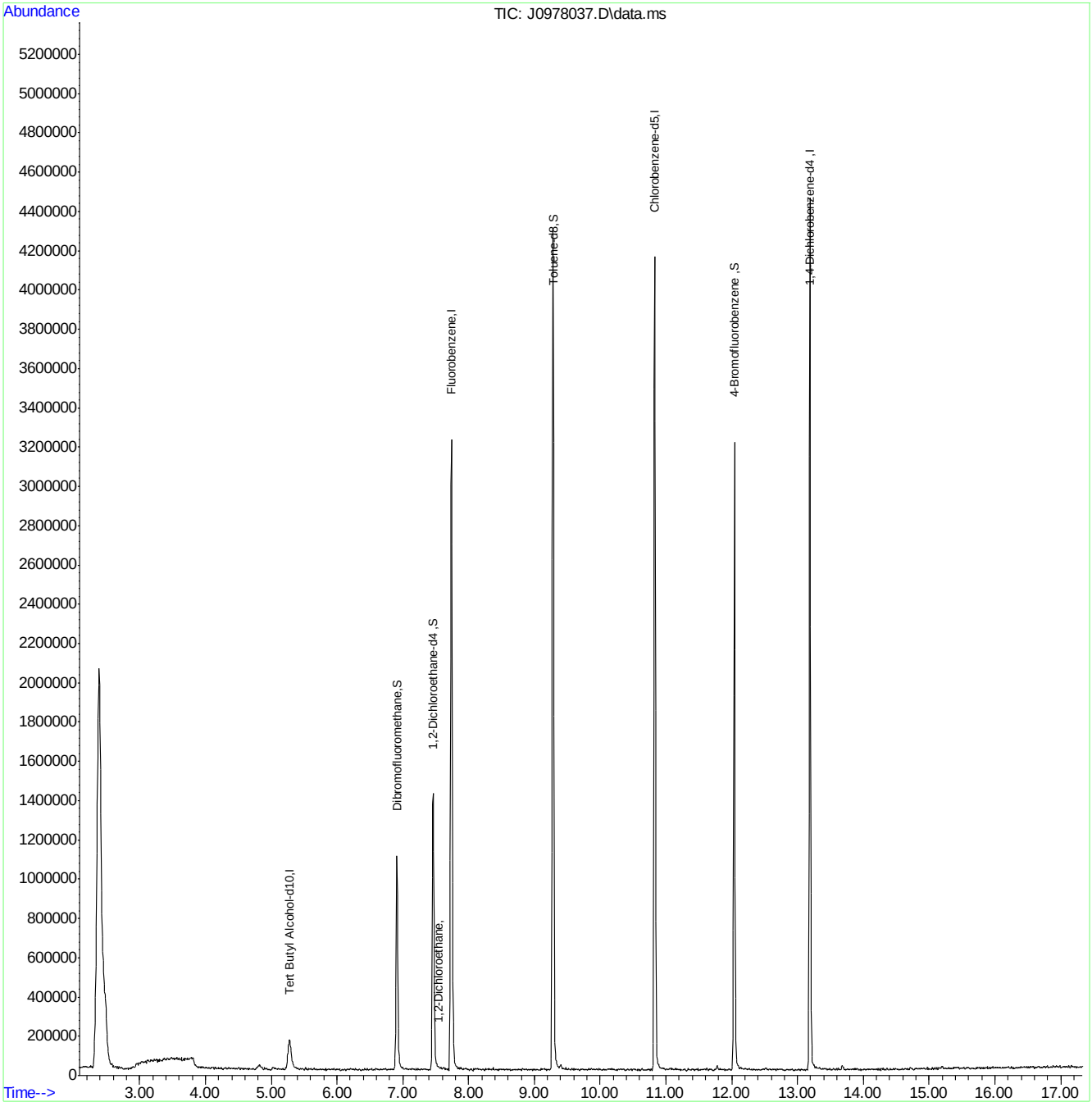
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA35362

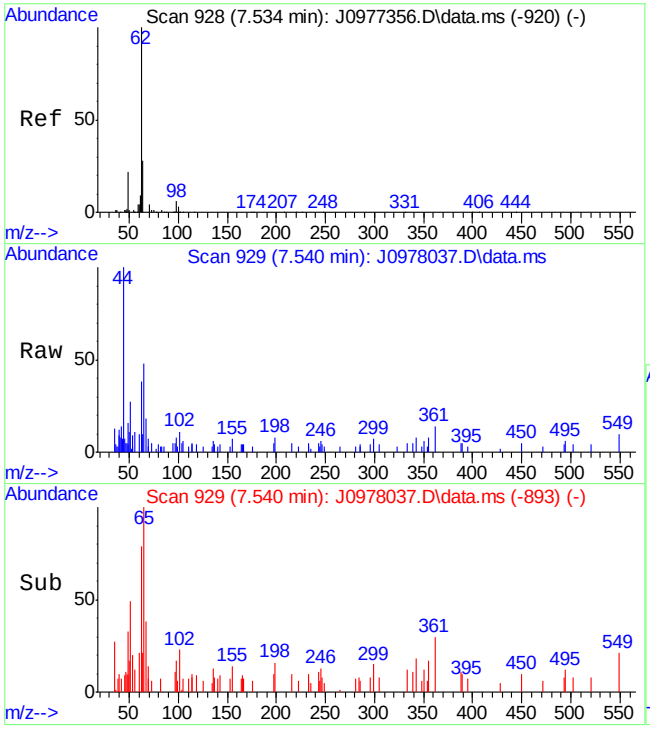
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978037.D
Acq On : 14 Jul 2016 12:31 pm
Operator : darshnap
Sample : fa35362-6 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 14 13:03:37 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



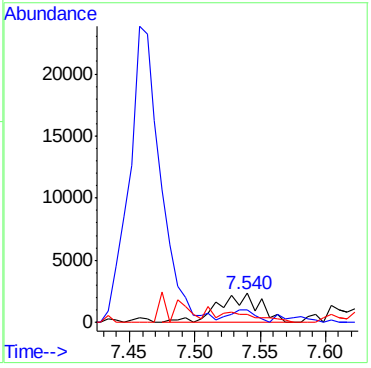
MSJ071216a.M Thu Jul 14 14:12:14 2016 Page: 2



#47
1,2-Dichloroethane
Concen: 0.23 ug/L
RT: 7.540 min Scan# 929
Delta R.T. 0.012 min
Lab File: J0978037.D
Acq: 14 Jul 2016 12:31 pm

Tgt Ion: 62 Resp: 5007

Ion	Ratio	Lower	Upper
62	100		
49	25.7	0.0	59.6
64	26.8	2.9	62.9



7.1.6

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978038.D
Acq On : 14 Jul 2016 12:54 pm
Operator : darshnap
Sample : fa35362-7 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 13:31:19 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	2403569	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1674498	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	831473	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	300873	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	631051	50.24	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.48%			
46) 1,2-Dichloroethane-d4	7.458	65	926061	54.57	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.14%			
57) Toluene-d8	9.279	98	2301745	51.07	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.14%			
79) 4-Bromofluorobenzene	12.035	95	968648	54.91	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 109.82%			
Target Compounds						Qvalue
17) Acetone	5.054	58	20390	19.28	ug/L	86

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

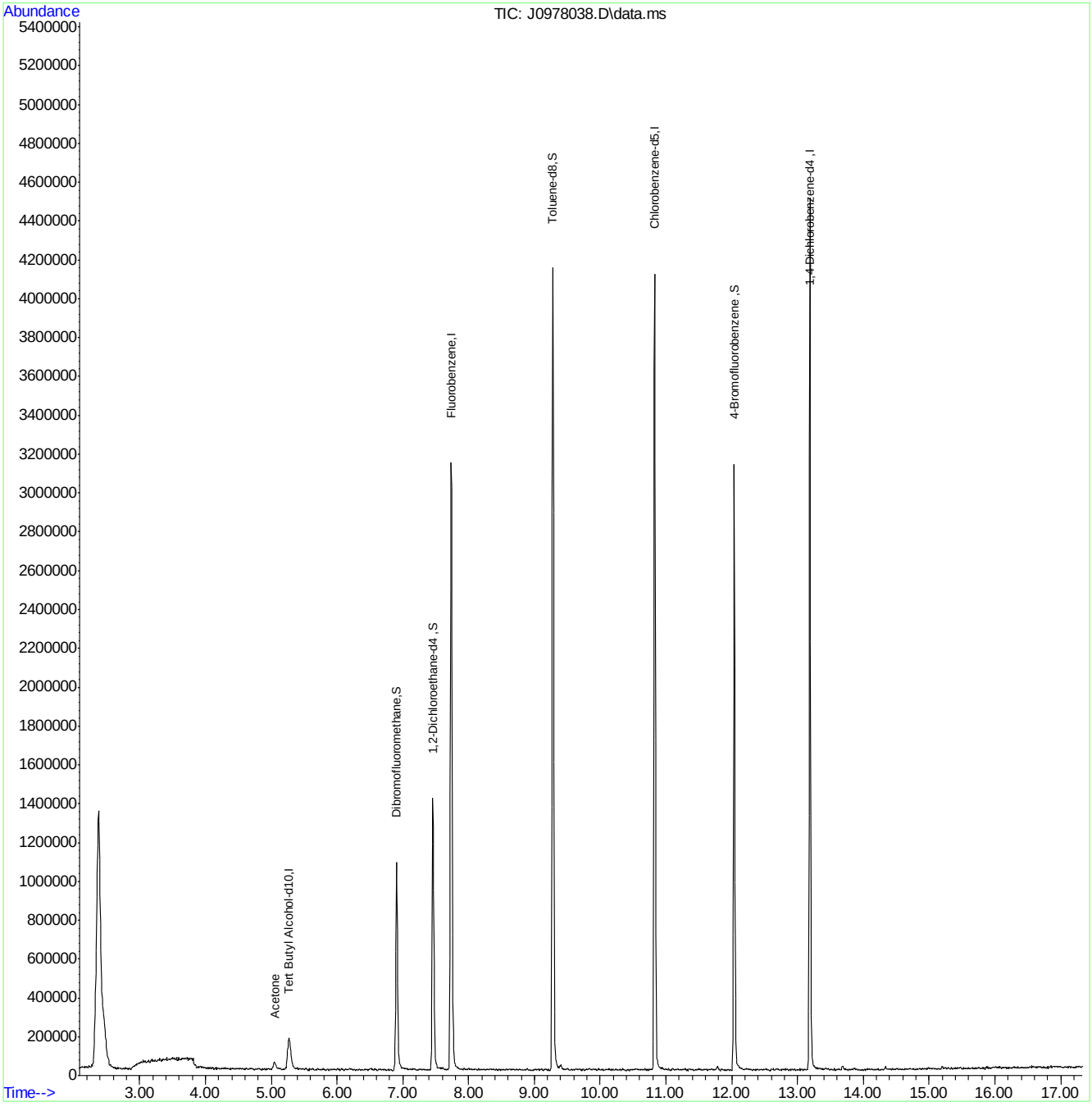
7.1.7

SGS ACCUTEST FA35362

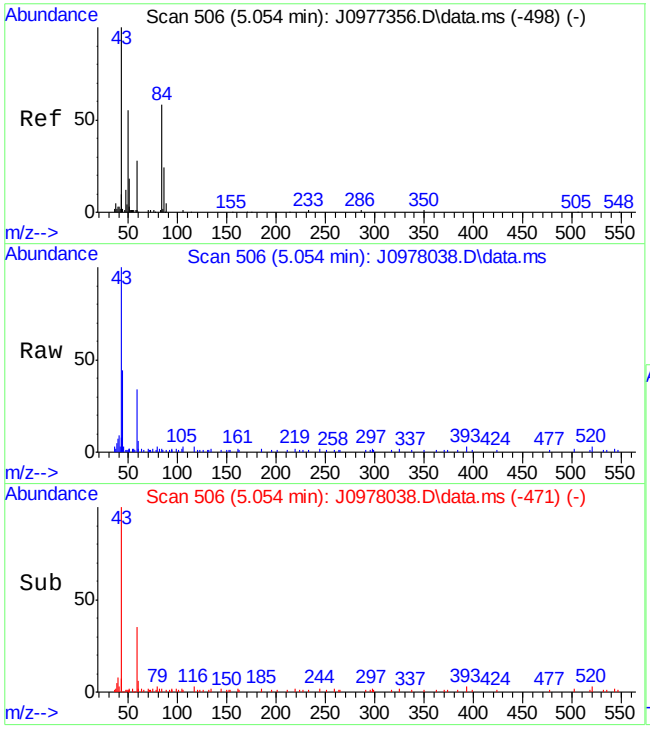
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978038.D
Acq On : 14 Jul 2016 12:54 pm
Operator : darshnap
Sample : fa35362-7 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 14 13:31:19 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



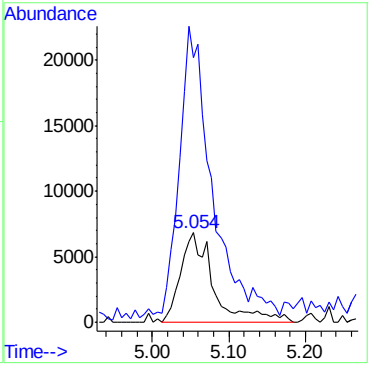
MSJ071216a.M Thu Jul 14 14:12:16 2016 Page: 2



#17
Acetone
Concen: 19.28 ug/L
RT: 5.054 min Scan# 506
Delta R.T. 0.005 min
Lab File: J0978038.D
Acq: 14 Jul 2016 12:54 pm

Tgt Ion: 58 Resp: 20390

Ion	Ratio	Lower	Upper
58	100		
43	286.3	284.8	344.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978039.D
Acq On : 14 Jul 2016 1:17 pm
Operator : darshnap
Sample : fa35362-8 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 14:11:05 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	2385267	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1644917	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.187	152	816862	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	290353	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.906	113	624126	50.07	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.14%			
46) 1,2-Dichloroethane-d4	7.464	65	933776	55.45	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 110.90%			
57) Toluene-d8	9.285	98	2273765	51.36	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.72%			
79) 4-Bromofluorobenzene	12.041	95	967887	55.85	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 111.70%			

Target Compounds Qvalue

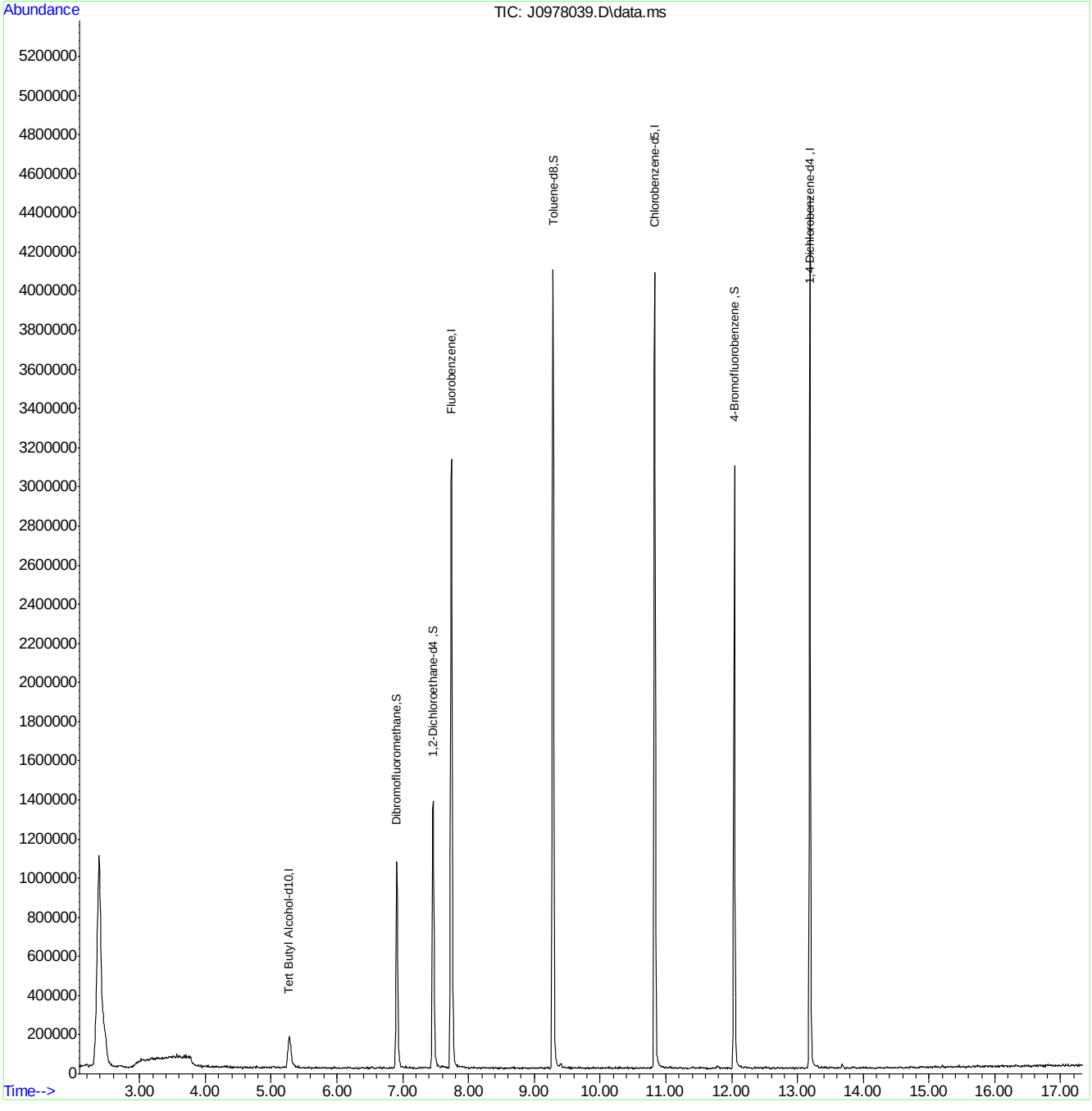
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978039.D
Acq On : 14 Jul 2016 1:17 pm
Operator : darshnap
Sample : fa35362-8 ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 14 14:11:05 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



MSJ071216a.M Thu Jul 14 14:12:18 2016 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978031.D
Acq On : 14 Jul 2016 10:06 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 11:33:24 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	2719744	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1863292	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	971377	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	343927	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	725952	51.07	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.14%			
46) 1,2-Dichloroethane-d4	7.458	65	1025305	53.40	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.80%			
57) Toluene-d8	9.285	98	2594941	51.74	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.48%			
79) 4-Bromofluorobenzene	12.041	95	1082989	52.55	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 105.10%			

Target Compounds Qvalue

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

7.2.1

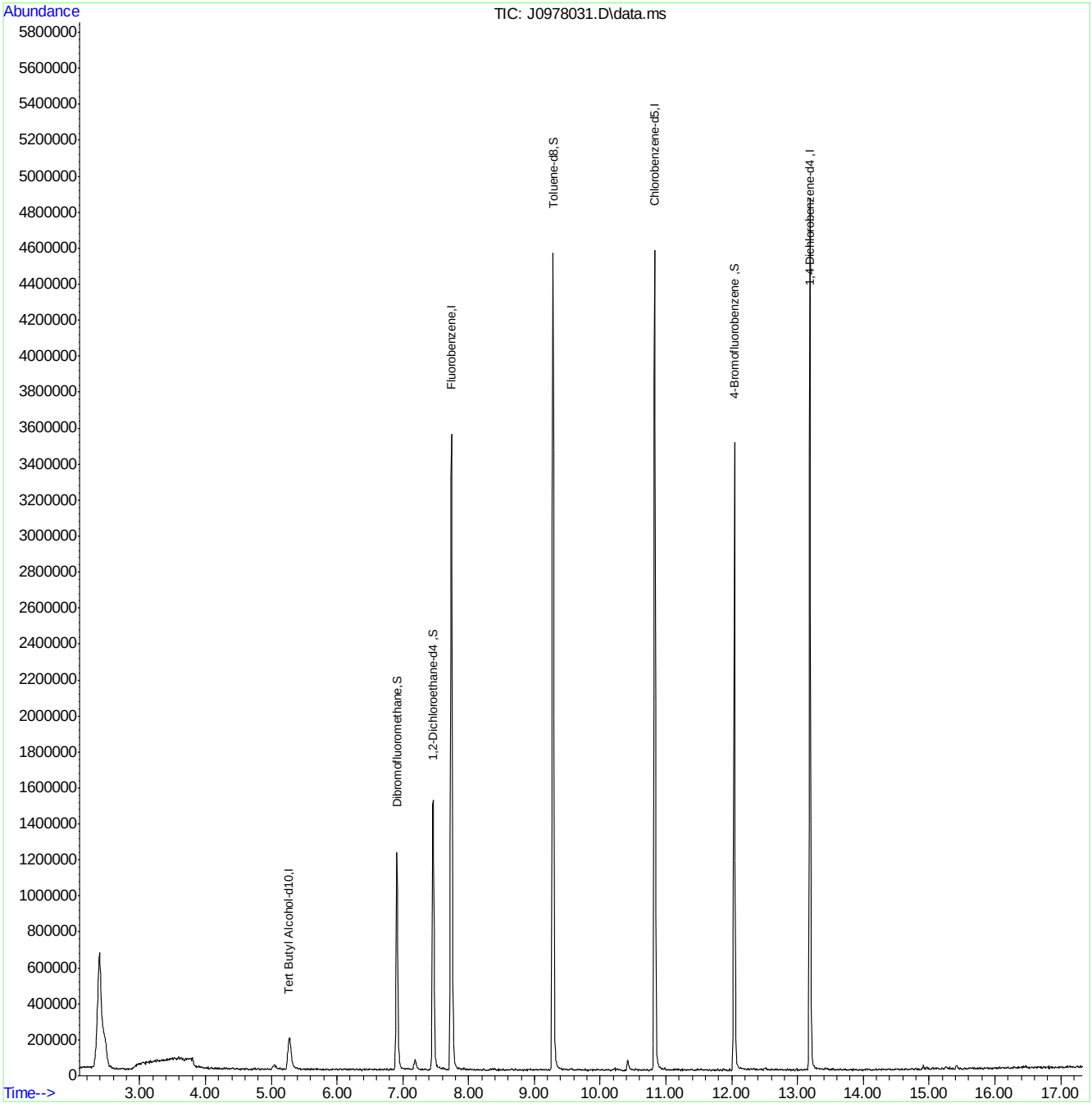
7

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978031.D
Acq On : 14 Jul 2016 10:06 am
Operator : darshnap
Sample : mb ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 14 11:33:24 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



MSJ071216a.M Thu Jul 14 11:38:33 2016 Page: 2

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/14/16 15:00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978030.D
Acq On : 14 Jul 2016 9:43 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 10:03:14 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	2757367	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1871551	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	994028	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	354947	250.00	ug/L	-0.01
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	730932	50.72	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.44%			
46) 1,2-Dichloroethane-d4	7.458	65	1017284	52.26	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 104.52%			
57) Toluene-d8	9.279	98	2637521	52.36	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.72%			
79) 4-Bromofluorobenzene	12.035	95	1126692	53.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 106.86%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	588994	27.84	ug/L	91
3) Chloromethane	2.875	50	672340	27.29	ug/L	96
4) Vinyl Chloride	3.010	62	540343	28.16	ug/L	89
5) 1,3-Butadiene	2.992	54	9987	0.64	ug/L #	54
6) Bromomethane	3.433	94	297598	30.39	ug/L	99
7) Chloroethane	3.586	64	297707	30.44	ug/L	97
8) Trichlorofluoromethane	3.809	101	614284m	28.85	ug/L	
9) Ethyl Ether	4.097	59	325837	21.57	ug/L	96
10) 1,2-Dichlorotrifluoroe...	4.326	67	545272	30.07	ug/L	89
11) 1,1-Dichloroethene	4.379	61	721188	29.10	ug/L	96
12) Freon 113	4.432	101	371085	24.30	ug/L	93
13) Carbon Disulfide	4.449	76	1272579	23.44	ug/L	98
14) Iodomethane	4.561	142	553037	21.47	ug/L	98
15) Allyl chloride	4.902	41	745487	24.75	ug/L	98
16) Methylene Chloride	5.025	49	628809	25.74	ug/L	96
17) Acetone	5.043	58	174760	144.03	ug/L	97
18) Methyl acetate	5.166	74	269521	112.39	ug/L #	77
19) trans-1,2-Dichloroethene	5.207	61	693807	30.19	ug/L	97
20) Hexane	5.278	56	394431	25.53	ug/L	93
21) Methyl Tert Butyl Ether	5.307	73	1165104	22.44	ug/L	92
22) Acetonitrile	5.572	40	253555	260.58	ug/L	93
23) Di-isopropyl ether	5.695	45	1510489	24.15	ug/L	98
24) Chloroprene	5.848	53	748336	25.48	ug/L	99
25) 1,1-Dichloroethane	5.877	63	816378	27.63	ug/L	100
26) Acrylonitrile	5.907	53	683185	120.21	ug/L	96
27) ETBE	6.100	59	1369946	23.39	ug/L	97
28) Vinyl acetate	6.083	43	4035765	124.82	ug/L	96
29) cis-1,2-Dichloroethene	6.453	96	433908	23.49	ug/L	95
30) 2,2-Dichloropropane	6.582	77	713411	27.91	ug/L	96
31) Bromochloromethane	6.665	128	171248	21.06	ug/L #	84
32) Cyclohexane	6.717	56	789787	26.47	ug/L	94
33) Chloroform	6.717	83	769602	25.18	ug/L	98
34) Ethyl acetate	6.782	43	1700759	126.89	ug/L	96

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978030.D
Acq On : 14 Jul 2016 9:43 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 10:03:14 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	101000	22.82 ug/L	100
37) Carbon Tetrachloride	6.911	117	591413	27.16 ug/L	93
38) 1,1,1-Trichloroethane	6.976	97	675462	24.88 ug/L	98
39) 2-Butanone	6.999	43	843217	135.62 ug/L	97
40) 1,1-Dichloropropene	7.082	75	568726	26.11 ug/L	97
41) tert-Butyl Formate	7.164	59	4086854	285.51 ug/L	96
42) Propionitrile	7.311	54	524606	275.81 ug/L	94
43) Methacrylonitrile	7.340	41	2247017	268.24 ug/L	95
44) Benzene	7.334	78	1528120	25.81 ug/L	97
45) TAME	7.411	73	1156839	22.48 ug/L	98
47) 1,2-Dichloroethane	7.528	62	598334	25.15 ug/L	97
48) Trichloroethene	7.916	95	402576	24.69 ug/L	96
49) Methylcyclohexane	7.940	83	746195	25.79 ug/L	97
50) Dibromomethane	8.339	93	236354	23.21 ug/L	94
51) 1,2-Dichloropropane	8.427	63	413382	23.70 ug/L	99
52) Bromodichloromethane	8.474	83	552111	23.85 ug/L	98
53) Methyl methacrylate	8.574	41	380906	26.30 ug/L	97
54) 2-Chloroethyl vinyl ether	8.985	63	1196952	126.77 ug/L	99
55) cis-1,3-Dichloropropene	9.091	75	653328	24.44 ug/L	98
58) Toluene	9.332	91	1569553	25.42 ug/L	96
59) 2-Nitropropane	9.538	41	517386	121.76 ug/L	97
60) 4-Methyl-2-pentanone	9.655	43	1828644	134.51 ug/L	96
61) trans-1,3-Dichloropropene	9.720	75	601126	26.46 ug/L	87
62) Tetrachloroethene	9.737	166	350534	23.91 ug/L	96
63) Ethyl methacrylate	9.820	69	435307	21.18 ug/L	92
64) 1,1,2-Trichloroethane	9.884	83	283923	24.83 ug/L	97
65) Dibromochloromethane	10.084	129	348786	22.49 ug/L	97
66) 1,3-Dichloropropane	10.166	76	583857	23.86 ug/L	97
67) 1,2-Dibromoethane	10.343	107	318480	22.76 ug/L	99
68) 2-hexanone	10.472	43	1259313	129.56 ug/L	94
69) 1-Chlorohexane	10.777	91	554752	26.04 ug/L	96
70) Ethylbenzene	10.842	91	1733769	26.50 ug/L	95
71) Chlorobenzene	10.848	112	948478	25.16 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.895	131	368252	24.14 ug/L	95
73) m,p-Xylene	10.983	91	2646992	54.71 ug/L	90
74) o-Xylene	11.424	91	1449067	24.70 ug/L	95
75) Styrene	11.471	104	1029034	23.09 ug/L	97
76) Bromoform	11.530	173	191319	20.48 ug/L	96
77) Isopropylbenzene	11.723	105	1713576	26.19 ug/L	94
80) cis-1,4-Dichloro-2-butene	12.070	53	139635	23.56 ug/L	89
81) n-Propylbenzene	12.146	91	2086018	28.88 ug/L	93
82) Bromobenzene	12.164	156	363270	23.40 ug/L	100
83) 1,1,2,2-Tetrachloroethane	12.205	83	421940	24.72 ug/L	98
84) 1,3,5-Trimethylbenzene	12.329	105	1452160	26.59 ug/L	91
85) 2-Chlorotoluene	12.334	91	1443540	27.94 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.387	53	126267	23.60 ug/L	94
87) 1,2,3-Trichloropropane	12.370	110	115165	24.78 ug/L	95
88) Cyclohexanone	12.428	55	173044	431.90 ug/L	96
89) 4-Chlorotoluene	12.499	91	1342873	26.33 ug/L	95
91) tert-Butylbenzene	12.669	91	936734	27.71 ug/L	95

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978030.D
Acq On : 14 Jul 2016 9:43 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 10:03:14 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

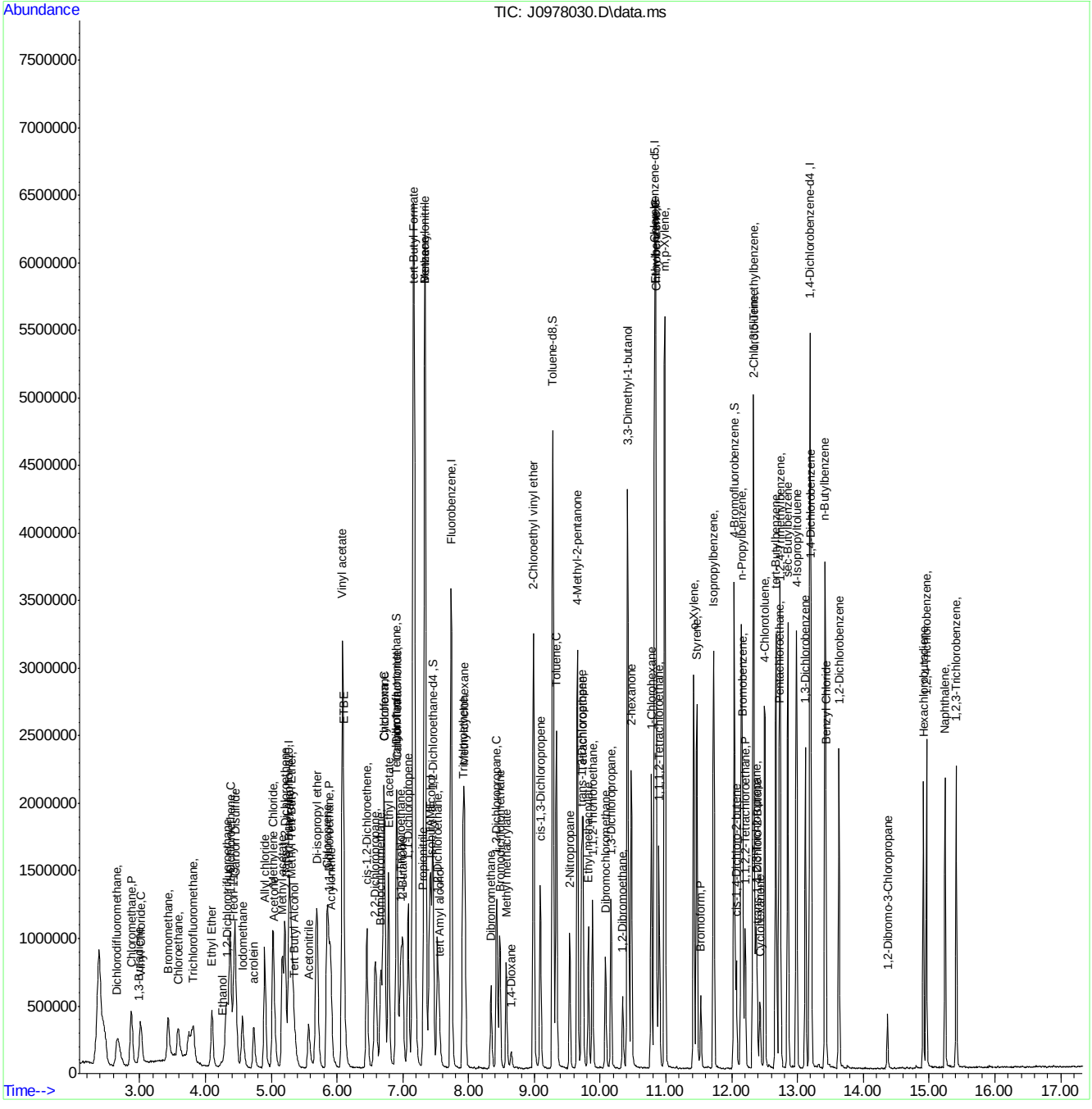
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.740	105	1437819	26.20	ug/L		94
93)	Pentachloroethane	12.722	167	227919	25.64	ug/L		98
94)	sec-Butylbenzene	12.852	105	1870681	28.31	ug/L		95
95)	4-Isopropyltoluene	12.987	119	1498021	26.70	ug/L		96
96)	1,3-Dichlorobenzene	13.122	146	750599	25.13	ug/L		96
97)	1,4-Dichlorobenzene	13.204	146	737716	24.34	ug/L		98
98)	n-Butylbenzene	13.416	92	984950	27.02	ug/L		94
99)	Benzyl Chloride	13.433	126	145730	20.85	ug/L	#	63
100)	1,2-Dichlorobenzene	13.627	146	698690	23.71	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.367	75	80631	23.14	ug/L		90
102)	Hexachlorobutadiene	14.914	225	231851	23.69	ug/L		95
103)	1,2,4-Trichlorobenzene	14.961	180	479418	22.64	ug/L		98
104)	Naphthalene	15.243	128	1115401	24.72	ug/L		96
105)	1,2,3-Trichlorobenzene	15.413	180	435427	22.39	ug/L		97
107)	Ethanol	4.261	45	103039m	603.24	ug/L		
108)	acrolein	4.731	56	362150	108.06	ug/L		95
109)	Tert Butyl Alcohol	5.354	59	403459	232.18	ug/L		97
110)	tert Amyl alcohol	7.558	59	294145	205.77	ug/L		97
111)	Isobutyl alcohol	7.434	42	253867	448.65	ug/L	#	80
112)	1,4-Dioxane	8.650	88	70998	578.14	ug/L		92
113)	3,3-Dimethyl-1-butanol	10.419	57	1703426	1221.21	ug/L		97

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978030.D
Acq On : 14 Jul 2016 9:43 am
Operator : darshnap
Sample : bs ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 10:03:14 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



MSJ071216a.M Thu Jul 14 11:38:25 2016 Page: 4

SGS ACCUTEST FA35362

Manual Integration Approval Summary

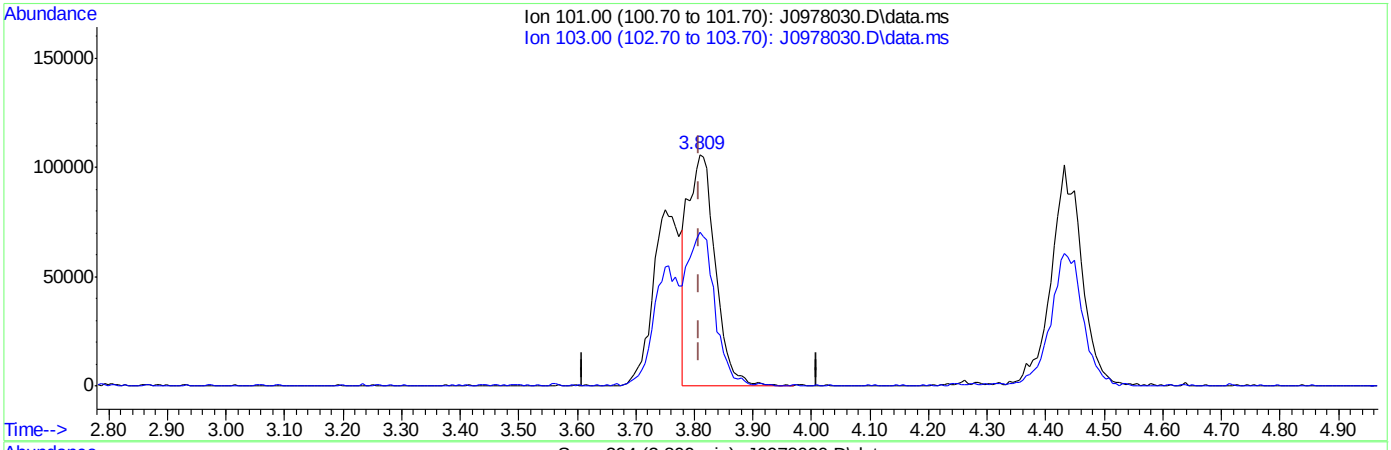
Sample Number:	VJ5371-BS	**Method:**	SW846 8260C
Lab FileID:	J0978030.D	**Analyst approved:**	07/14/16 14:15 Darshna Patel
Injection Time:	07/14/16 09:43	**Supervisor approved:**	07/14/16 15:00 Juan Garcia

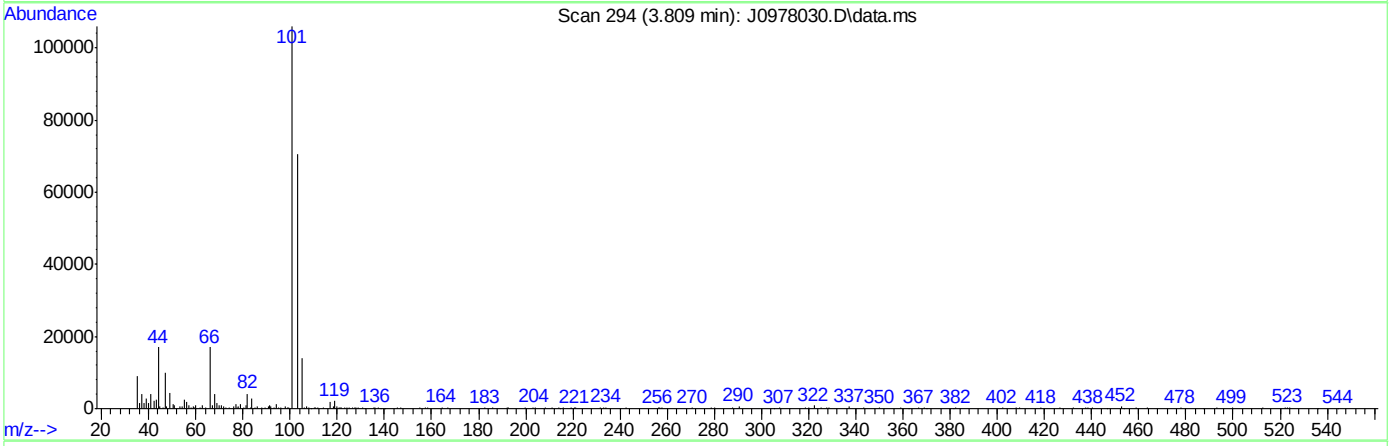
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978030.D
Acq On : 14 Jul 2016 9:43 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 10:02:51 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978030.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (-0.000) 16.05ug/L

response 341744

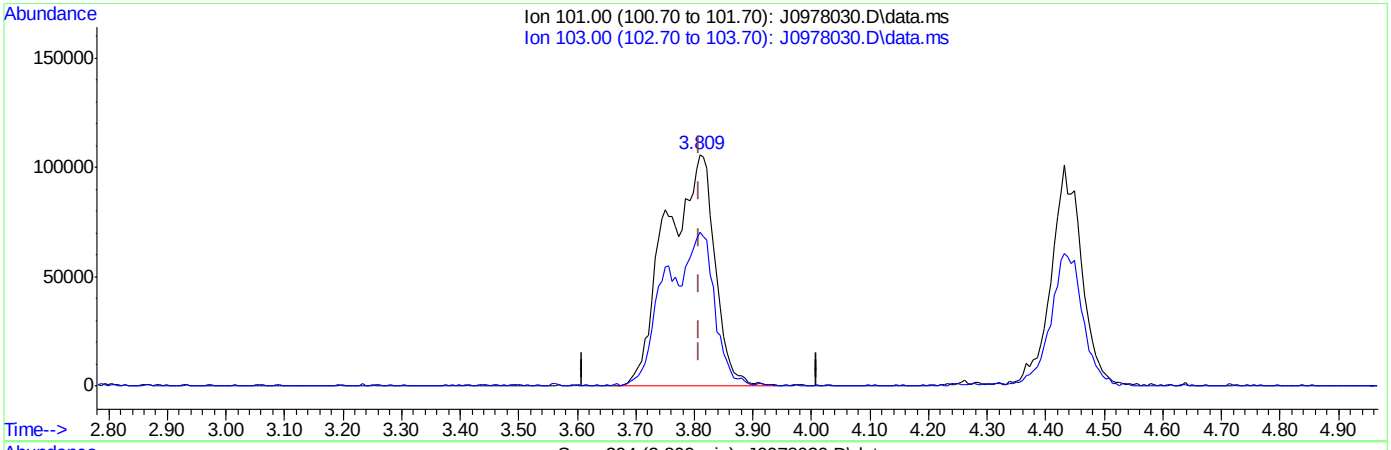
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	66.43
0.00	0.00	0.00
0.00	0.00	0.00

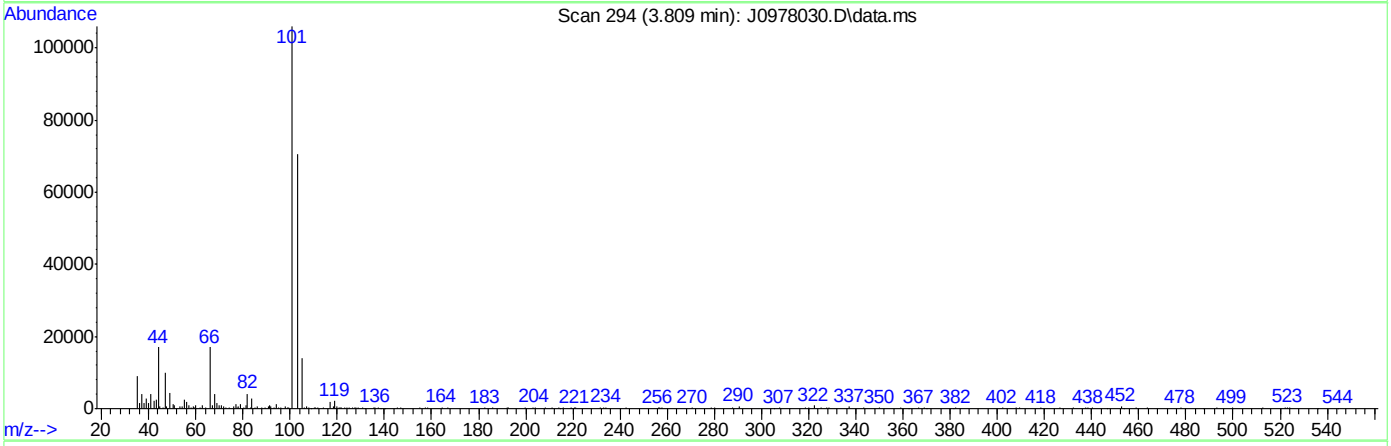
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978030.D
Acq On : 14 Jul 2016 9:43 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 10:02:51 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978030.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (-0.000) 28.85ug/L m

response 614284

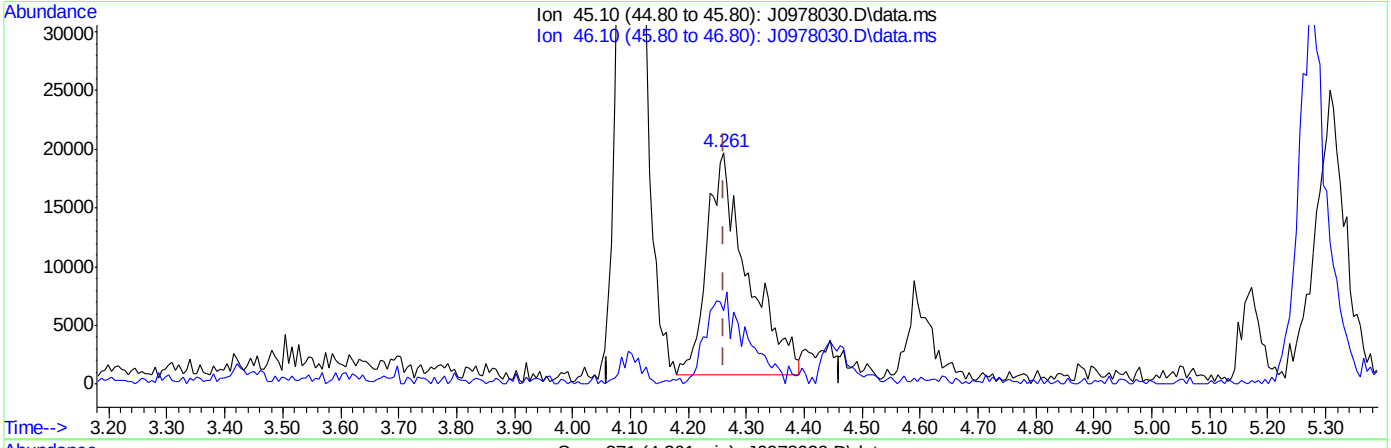
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	66.70
0.00	0.00	0.00
0.00	0.00	0.00

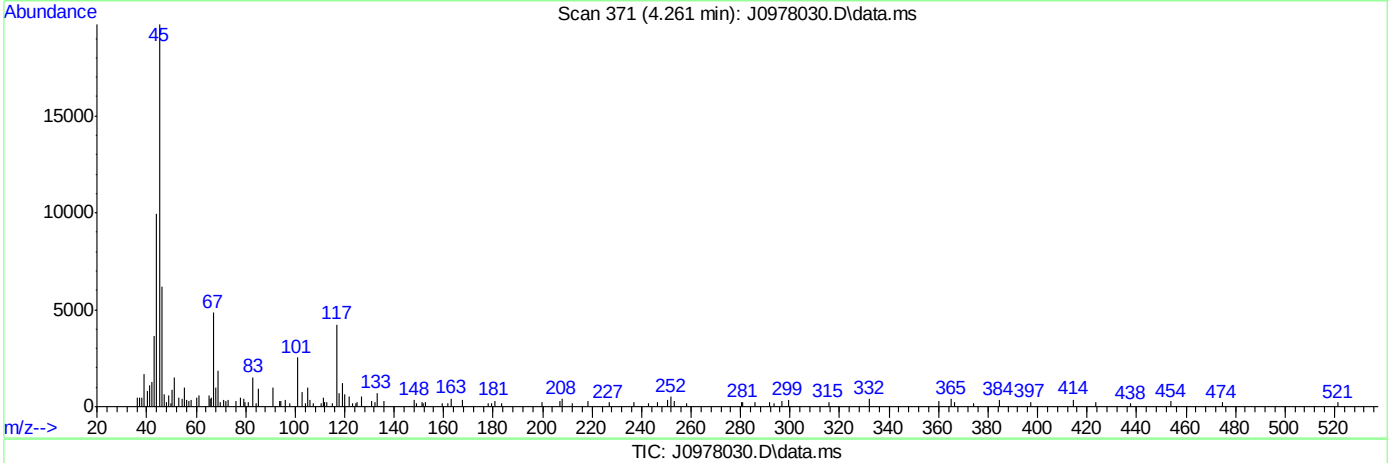
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978030.D
Acq On : 14 Jul 2016 9:43 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 10:02:51 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978030.D\data.ms

(107) Ethanol

4.261min (+0.000) 537.60ug/L

response 91952

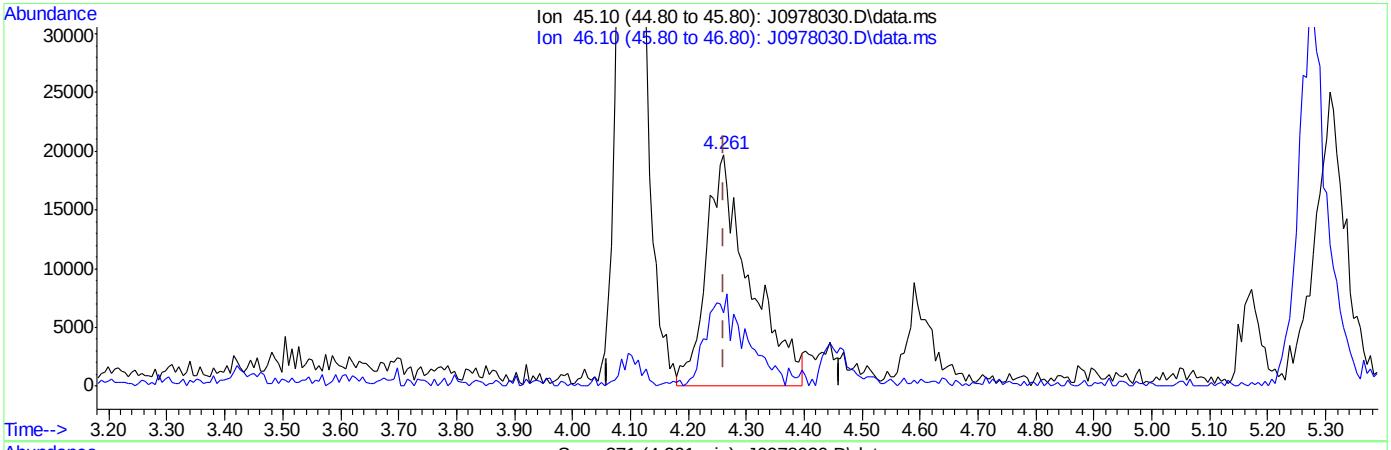
Ion	Exp%	Act%
45.10	100	100
46.10	30.50	30.96
0.00	0.00	0.00
0.00	0.00	0.00

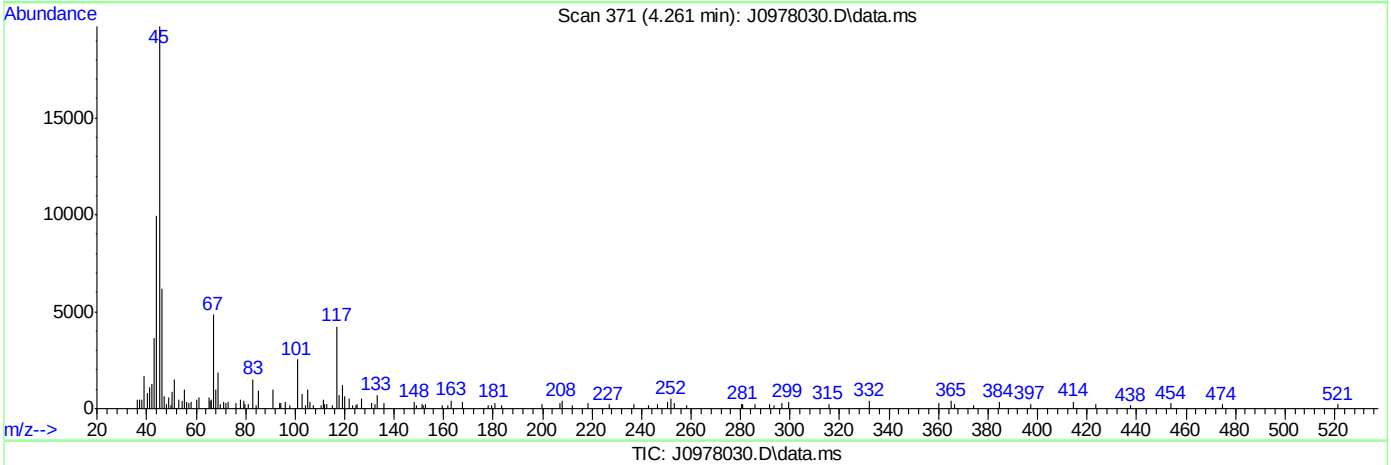
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978030.D
Acq On : 14 Jul 2016 9:43 am
Operator : darshnap
Sample : bs Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 10:02:51 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978030.D\data.ms

(107) Ethanol

4.261min (+0.000) 603.24ug/L m

response 103039

Ion	Exp%	Act%
45.10	100	100
46.10	30.50	31.51
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/14/16 15:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978040.D
Acq On : 14 Jul 2016 1:40 pm
Operator : darshnap
Sample : fa35362-1ms ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:11:40 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	2429968	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1689726	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	878462	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	293699	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	640883	50.47	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.94%			
46) 1,2-Dichloroethane-d4	7.463	65	932983	54.38	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.76%			
57) Toluene-d8	9.285	98	2338860	51.43	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.86%			
79) 4-Bromofluorobenzene	12.041	95	1007027	54.03	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	503116	26.99	ug/L	92
3) Chloromethane	2.881	50	624948	28.78	ug/L	93
4) Vinyl Chloride	3.022	62	511640	30.25	ug/L	97
5) 1,3-Butadiene	3.010	54	49544	3.64	ug/L	86
6) Bromomethane	3.445	94	296263	34.60	ug/L	97
7) Chloroethane	3.591	64	288419	33.97	ug/L	98
8) Trichlorofluoromethane	3.809	101	601770m	32.07	ug/L	
9) Ethyl Ether	4.109	59	326897	24.55	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.338	67	514478	32.24	ug/L	93
11) 1,1-Dichloroethene	4.385	61	696438	32.02	ug/L	94
12) Freon 113	4.443	101	339274	25.21	ug/L	92
13) Carbon Disulfide	4.461	76	1107812	23.16	ug/L	97
14) Iodomethane	4.567	142	512359	22.57	ug/L	98
15) Allyl chloride	4.908	41	589266	22.12	ug/L	95
16) Methylene Chloride	5.031	49	589472	27.44	ug/L	95
17) Acetone	5.054	58	142349	133.12	ug/L	86
18) Methyl acetate	5.178	74	234416	110.92	ug/L #	82
19) trans-1,2-Dichloroethene	5.213	61	649632	32.16	ug/L	93
20) Hexane	5.284	56	427248	31.57	ug/L	89
21) Methyl Tert Butyl Ether	5.319	73	1553739	33.96	ug/L	98
22) Acetonitrile	5.577	40	201794	235.48	ug/L	97
23) Di-isopropyl ether	5.695	45	1419640	25.83	ug/L	98
24) Chloroprene	5.854	53	539848	20.68	ug/L	96
25) 1,1-Dichloroethane	5.883	63	772019	29.74	ug/L	95
26) Acrylonitrile	5.912	53	578144	115.32	ug/L	97
27) ETBE	6.100	59	1292927	25.12	ug/L	96
28) Vinyl acetate	6.089	43	3537410	124.04	ug/L	97
29) cis-1,2-Dichloroethene	6.459	96	397030	24.39	ug/L	93
30) 2,2-Dichloropropane	6.588	77	637577	28.32	ug/L	96
31) Bromochloromethane	6.670	128	156296	21.81	ug/L #	83
32) Cyclohexane	6.717	56	757130	28.87	ug/L	96
33) Chloroform	6.723	83	702319	26.12	ug/L	96
34) Ethyl acetate	6.788	43	1468838	124.16	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978040.D
Acq On : 14 Jul 2016 1:40 pm
Operator : darshnap
Sample : fa35362-1ms ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:11:40 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	101829	26.18 ug/L	92
37) Carbon Tetrachloride	6.917	117	517646	26.97 ug/L	94
38) 1,1,1-Trichloroethane	6.976	97	598158	25.00 ug/L	96
39) 2-Butanone	7.005	43	734240	133.95 ug/L	98
40) 1,1-Dichloropropene	7.087	75	530259	27.62 ug/L	96
41) tert-Butyl Formate	7.170	59	294618	20.78 ug/L	86
42) Propionitrile	7.317	54	442135	263.72 ug/L	89
43) Methacrylonitrile	7.340	41	2013948	273.40 ug/L	97
44) Benzene	7.340	78	1458748	28.13 ug/L	98
45) TAME	7.416	73	1039626	22.95 ug/L	98
47) 1,2-Dichloroethane	7.534	62	566424	27.08 ug/L	98
48) Trichloroethene	7.916	95	376225	26.18 ug/L	92
49) Methylcyclohexane	7.939	83	679471	26.65 ug/L	93
50) Dibromomethane	8.345	93	212088	23.64 ug/L	92
51) 1,2-Dichloropropane	8.433	63	390304	25.39 ug/L	96
52) Bromodichloromethane	8.480	83	477414	23.40 ug/L	99
53) Methyl methacrylate	8.574	41	308491	24.14 ug/L	95
54) 2-Chloroethyl vinyl ether	9.103	63	3945	0.44 ug/L #	40
55) cis-1,3-Dichloropropene	9.091	75	589102	25.01 ug/L	94
58) Toluene	9.338	91	1419025	25.45 ug/L	95
59) 2-Nitropropane	9.538	41	480586	125.37 ug/L	100
60) 4-Methyl-2-pentanone	9.655	43	1668714	136.12 ug/L	96
61) trans-1,3-Dichloropropene	9.720	75	539445	26.30 ug/L	83
62) Tetrachloroethene	9.743	166	283790	21.44 ug/L	95
63) Ethyl methacrylate	9.825	69	353508	19.03 ug/L	95
64) 1,1,2-Trichloroethane	9.884	83	250773	24.28 ug/L	93
65) Dibromochloromethane	10.084	129	274543	19.61 ug/L	97
66) 1,3-Dichloropropane	10.166	76	532955	24.12 ug/L	95
67) 1,2-Dibromoethane	10.342	107	286345	22.67 ug/L	99
68) 2-hexanone	10.472	43	1128083	128.47 ug/L	92
69) 1-Chlorohexane	10.777	91	483242	25.10 ug/L	93
70) Ethylbenzene	10.848	91	1609136	27.33 ug/L	94
71) Chlorobenzene	10.848	112	884164	26.03 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.895	131	317760	23.07 ug/L	97
73) m,p-Xylene	10.983	91	2395098	54.86 ug/L	86
74) o-Xylene	11.424	91	1276692	24.04 ug/L	93
75) Styrene	11.471	104	682191	16.69 ug/L	97
76) Bromoform	11.535	173	131366	15.58 ug/L	94
77) Isopropylbenzene	11.723	105	1523895	25.76 ug/L	94
80) cis-1,4-Dichloro-2-butene	12.076	53	97156	18.55 ug/L	96
81) n-Propylbenzene	12.146	91	1910452	30.12 ug/L	87
82) Bromobenzene	12.164	156	317674	23.15 ug/L	95
83) 1,1,2,2-Tetrachloroethane	12.205	83	371633	24.64 ug/L	96
84) 1,3,5-Trimethylbenzene	12.328	105	1212527	24.96 ug/L	93
85) 2-Chlorotoluene	12.334	91	1308604	28.75 ug/L	94
86) trans-1,4-Dichloro-2-B...	12.387	53	115953	24.54 ug/L	94
87) 1,2,3-Trichloropropane	12.370	110	98758	24.03 ug/L	94
88) Cyclohexanone	12.434	55	50050	136.61 ug/L	92
89) 4-Chlorotoluene	12.499	91	1229375	27.38 ug/L	92
90) a-Methyl Styrene	12.675	118	19558	0.69 ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978040.D
Acq On : 14 Jul 2016 1:40 pm
Operator : darshnap
Sample : fa35362-1ms ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:11:40 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	853637	28.65	ug/L		91
92)	1,2,4-Trimethylbenzene	12.734	105	1151483	23.48	ug/L		95
93)	Pentachloroethane	12.722	167	195653	24.91	ug/L		95
94)	sec-Butylbenzene	12.851	105	1682523	28.88	ug/L		93
95)	4-Isopropyltoluene	12.986	119	1319661	26.60	ug/L		93
96)	1,3-Dichlorobenzene	13.122	146	655734	24.83	ug/L		96
97)	1,4-Dichlorobenzene	13.204	146	662408	24.75	ug/L		92
98)	n-Butylbenzene	13.415	92	875954	27.20	ug/L		87
99)	Benzyl Chloride	13.433	126	127489	20.63	ug/L	#	70
100)	1,2-Dichlorobenzene	13.627	146	623412	23.95	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.367	75	69484	22.57	ug/L		80
102)	Hexachlorobutadiene	14.914	225	194795	22.52	ug/L		99
103)	1,2,4-Trichlorobenzene	14.961	180	417894	22.32	ug/L		98
104)	Naphthalene	15.243	128	962477	24.09	ug/L		99
105)	1,2,3-Trichlorobenzene	15.413	180	369323	21.47	ug/L		96
107)	Ethanol	4.267	45	76287m	539.04	ug/L		
108)	acrolein	4.737	56	309001	111.47	ug/L		90
109)	Tert Butyl Alcohol	5.360	59	1205833	860.54	ug/L		91
110)	tert Amyl alcohol	7.557	59	240694	203.48	ug/L		97
111)	Isobutyl alcohol	7.434	42	213671	456.43	ug/L		93
112)	1,4-Dioxane	8.650	88	57948	570.76	ug/L		93
113)	3,3-Dimethyl-1-butanol	10.419	57	1356759	1172.59	ug/L		97

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

7.4.1

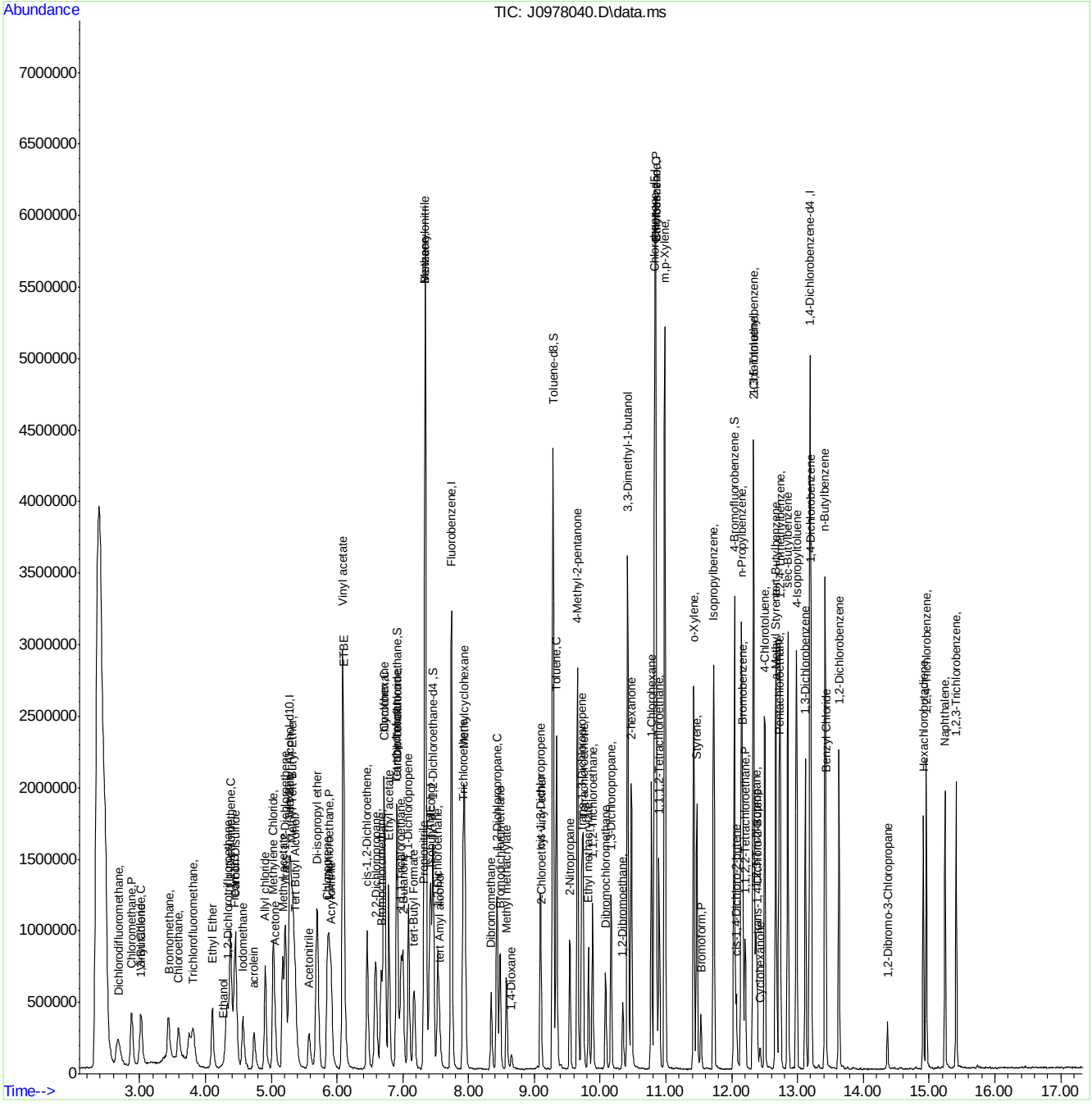
7

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978040.D
Acq On : 14 Jul 2016 1:40 pm
Operator : darshnap
Sample : fa35362-1ms ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:11:40 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



SGS ACCUTEST FA35362

Manual Integration Approval Summary

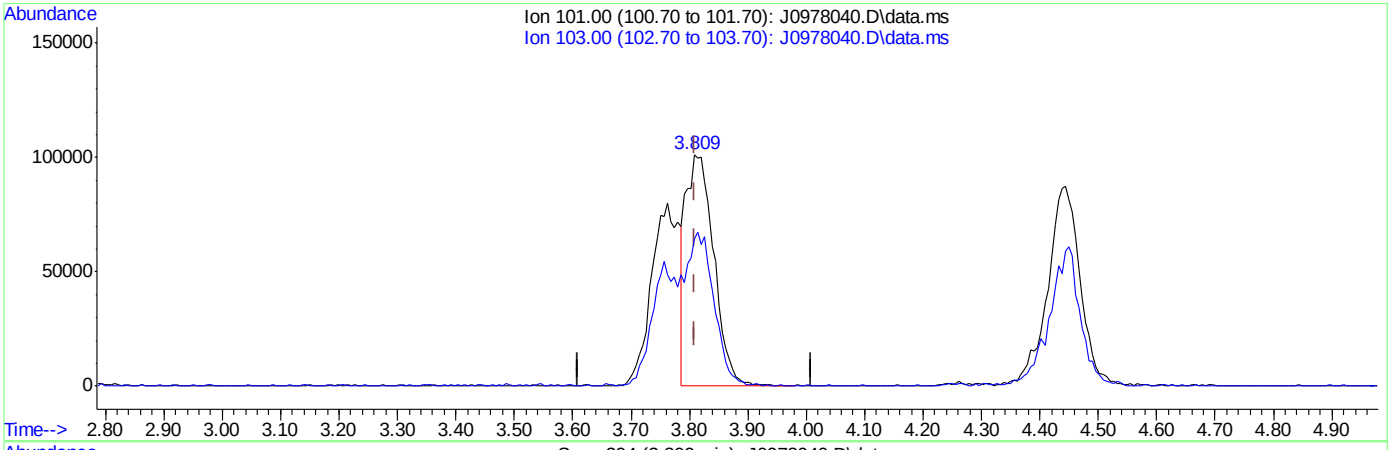
Sample Number:	FA35362-1MS	**Method:**	SW846 8260C
Lab FileID:	J0978040.D	**Analyst approved:**	07/14/16 14:28 Darshna Patel
Injection Time:	07/14/16 13:40	**Supervisor approved:**	07/14/16 15:01 Juan Garcia

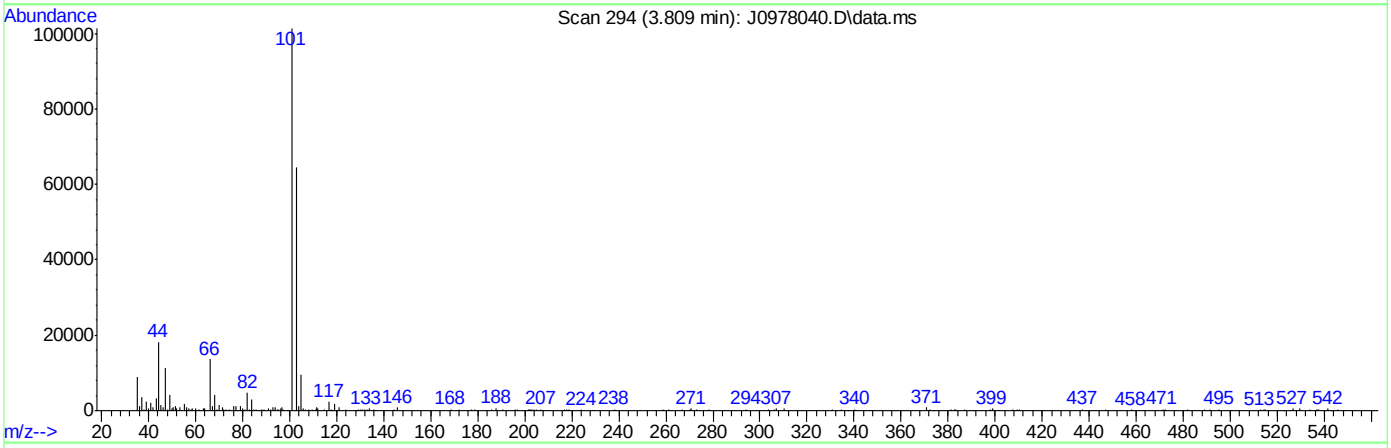
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978040.D
Acq On : 14 Jul 2016 1:40 pm
Operator : darshnap
Sample : fa35362-1ms ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:10:21 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978040.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (-0.000) 17.98ug/L

response 337298

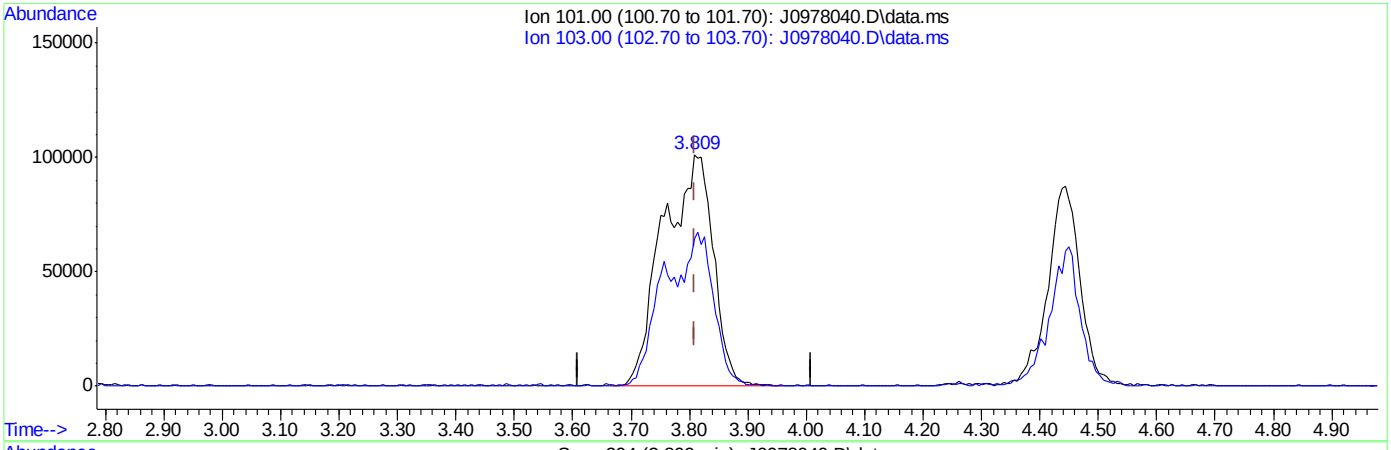
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	63.47
0.00	0.00	0.00
0.00	0.00	0.00

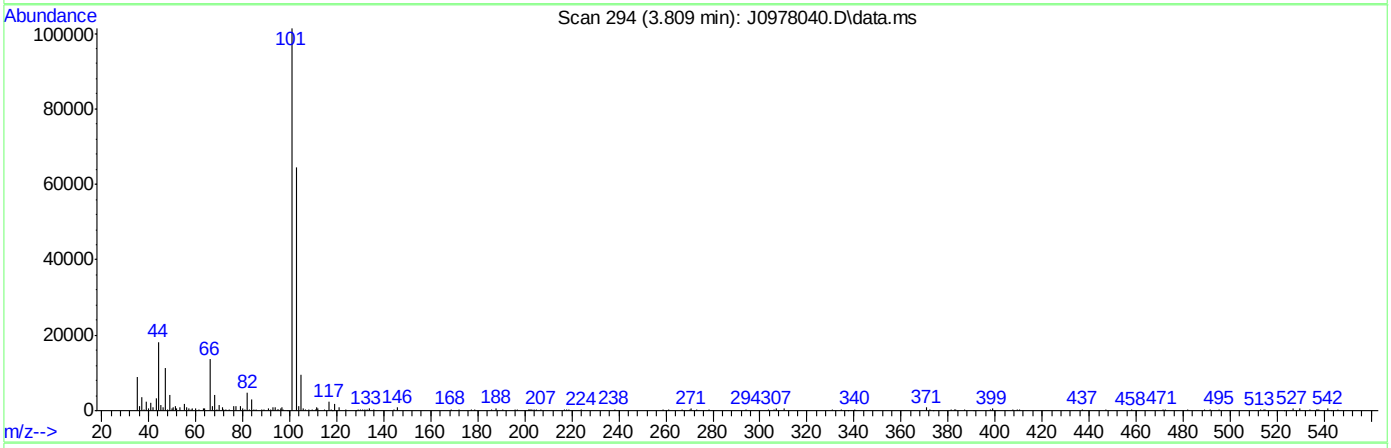
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978040.D
Acq On : 14 Jul 2016 1:40 pm
Operator : darshnap
Sample : fa35362-1ms ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:10:21 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978040.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (-0.000) 32.07ug/L m

response 601770

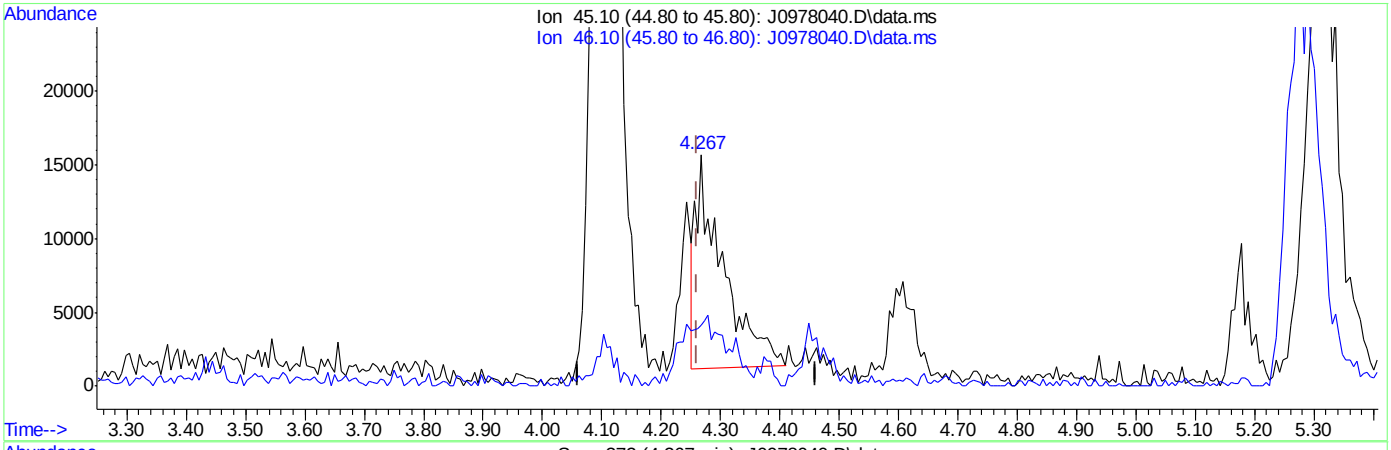
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	63.71
0.00	0.00	0.00
0.00	0.00	0.00

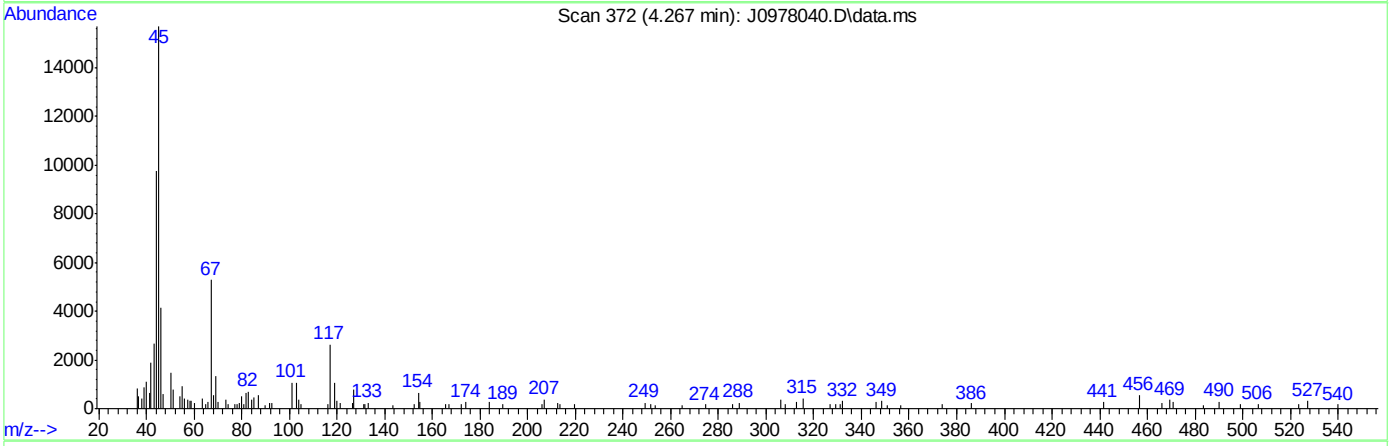
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978040.D
Acq On : 14 Jul 2016 1:40 pm
Operator : darshnap
Sample : fa35362-1ms ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:10:21 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978040.D\data.ms

(107) Ethanol

4.267min (+0.006) 329.04ug/L

response 46770

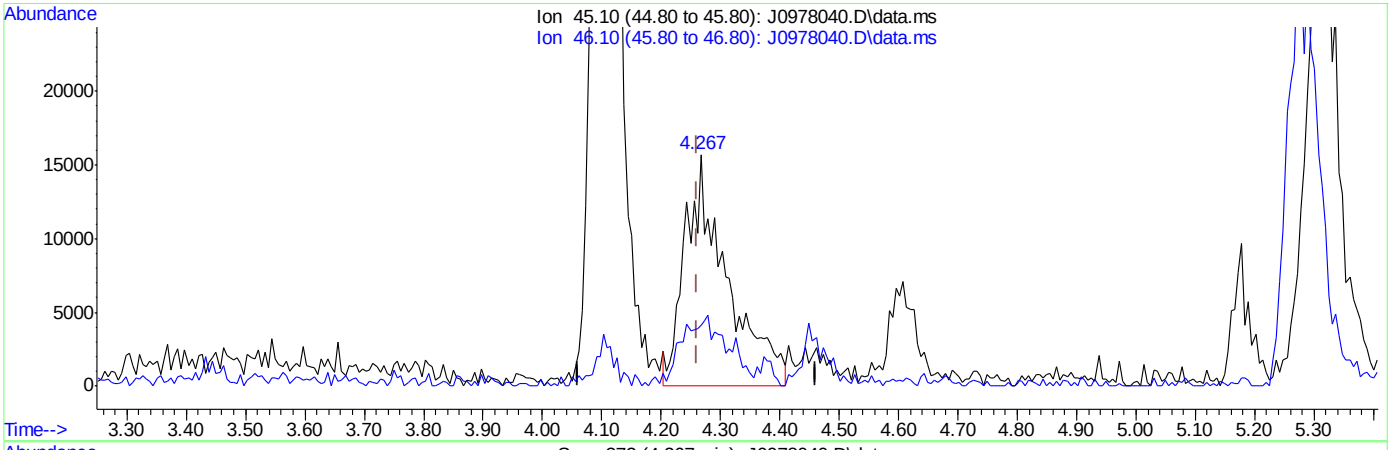
Ion	Exp%	Act%
45.10	100	100
46.10	30.50	33.35
0.00	0.00	0.00
0.00	0.00	0.00

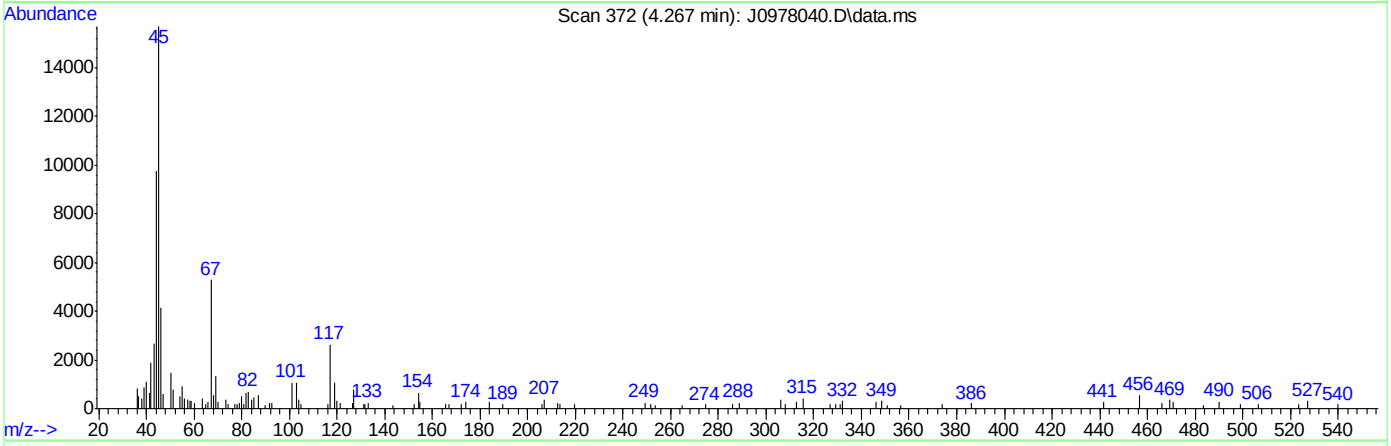
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978040.D
Acq On : 14 Jul 2016 1:40 pm
Operator : darshnap
Sample : fa35362-1ms ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:10:21 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978040.D\data.ms

(107) Ethanol

4.267min (+0.006) 539.04ug/L m

response 76287

Ion	Exp%	Act%
45.10	100	100
46.10	30.50	26.52
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/14/16 15:01

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978041.D
Acq On : 14 Jul 2016 2:03 pm
Operator : darshnap
Sample : fa35362-1msd ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:23:06 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	2463739	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1715721	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	882459	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.284	65	325728	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	648820	50.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 100.78%			
46) 1,2-Dichloroethane-d4	7.464	65	937893	53.92	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.84%			
57) Toluene-d8	9.285	98	2369173	51.30	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 102.60%			
79) 4-Bromofluorobenzene	12.041	95	1012609	54.09	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.18%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.681	85	488367	25.84	ug/L	92
3) Chloromethane	2.881	50	586702	26.65	ug/L	99
4) Vinyl Chloride	3.027	62	500239	29.17	ug/L	96
5) 1,3-Butadiene	3.010	54	58472	4.24	ug/L #	83
6) Bromomethane	3.445	94	283108	32.49	ug/L	99
7) Chloroethane	3.591	64	263732	30.15	ug/L	98
8) Trichlorofluoromethane	3.821	101	585543m	30.78	ug/L	
9) Ethyl Ether	4.109	59	327953	24.29	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.338	67	497519	30.72	ug/L	91
11) 1,1-Dichloroethene	4.385	61	684202	30.98	ug/L	95
12) Freon 113	4.449	101	331278	24.27	ug/L	90
13) Carbon Disulfide	4.461	76	1036273	21.37	ug/L	98
14) Iodomethane	4.573	142	483473	21.01	ug/L	100
15) Allyl chloride	4.908	41	541723	20.00	ug/L	96
16) Methylene Chloride	5.037	49	587773	26.97	ug/L	95
17) Acetone	5.055	58	150948	139.23	ug/L	91
18) Methyl acetate	5.178	74	250580	116.94	ug/L #	79
19) trans-1,2-Dichloroethene	5.219	61	631865	30.79	ug/L	96
20) Hexane	5.284	56	422253	30.75	ug/L #	89
21) Methyl Tert Butyl Ether	5.313	73	1551647	33.45	ug/L	95
22) Acetonitrile	5.577	40	228835	263.18	ug/L	97
23) Di-isopropyl ether	5.701	45	1383428	24.78	ug/L	97
24) Chloroprene	5.859	53	457717	17.19	ug/L	98
25) 1,1-Dichloroethane	5.883	63	751423	28.50	ug/L	96
26) Acrylonitrile	5.912	53	628963	123.95	ug/L	100
27) ETBE	6.100	59	1276756	24.44	ug/L	94
28) Vinyl acetate	6.095	43	3525797	121.59	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	402060	24.36	ug/L	93
30) 2,2-Dichloropropane	6.588	77	618634	27.07	ug/L	96
31) Bromochloromethane	6.676	128	153635	21.15	ug/L	94
32) Cyclohexane	6.717	56	735676	27.63	ug/L	97
33) Chloroform	6.723	83	679553	24.86	ug/L	100
34) Ethyl acetate	6.788	43	1560992	130.63	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978041.D
Acq On : 14 Jul 2016 2:03 pm
Operator : darshnap
Sample : fa35362-1msd ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:23:06 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	110006	27.93 ug/L	97
37) Carbon Tetrachloride	6.917	117	473747m	24.28 ug/L	
38) 1,1,1-Trichloroethane	6.982	97	595793	24.56 ug/L	94
39) 2-Butanone	7.005	43	785428	141.59 ug/L	99
40) 1,1-Dichloropropene	7.087	75	520318	26.73 ug/L	97
41) tert-Butyl Formate	7.176	59	161082	11.16 ug/L #	80
42) Propionitrile	7.317	54	478869	281.80 ug/L	90
43) Methacrylonitrile	7.340	41	2073905	278.23 ug/L	96
44) Benzene	7.340	78	1444301	27.42 ug/L	94
45) TAME	7.417	73	1034667	22.51 ug/L	97
47) 1,2-Dichloroethane	7.534	62	559616	26.37 ug/L	97
48) Trichloroethene	7.916	95	374978	25.74 ug/L	98
49) Methylcyclohexane	7.939	83	671302	25.96 ug/L	93
50) Dibromomethane	8.345	93	214565	23.59 ug/L	93
51) 1,2-Dichloropropane	8.433	63	378888	24.31 ug/L	96
52) Bromodichloromethane	8.480	83	452881	21.89 ug/L	98
53) Methyl methacrylate	8.574	41	328153	25.34 ug/L	93
54) 2-Chloroethyl vinyl ether	9.097	63	2574	0.29 ug/L #	15
55) cis-1,3-Dichloropropene	9.097	75	549771	23.02 ug/L	97
58) Toluene	9.338	91	1384679	24.38 ug/L	97
59) 2-Nitropropane	9.538	41	504162	129.64 ug/L	98
60) 4-Methyl-2-pentanone	9.655	43	1736240	139.87 ug/L	94
61) trans-1,3-Dichloropropene	9.720	75	514261	24.69 ug/L	93
62) Tetrachloroethene	9.737	166	281164	20.92 ug/L	92
63) Ethyl methacrylate	9.825	69	353147	18.72 ug/L	96
64) 1,1,2-Trichloroethane	9.884	83	250634	23.89 ug/L	93
65) Dibromochloromethane	10.084	129	263262	18.52 ug/L	99
66) 1,3-Dichloropropane	10.166	76	543244	24.21 ug/L	96
67) 1,2-Dibromoethane	10.348	107	289713	22.59 ug/L	97
68) 2-hexanone	10.472	43	1204794	135.66 ug/L	94
69) 1-Chlorohexane	10.777	91	488735	24.99 ug/L	94
70) Ethylbenzene	10.848	91	1556006	25.88 ug/L	93
71) Chlorobenzene	10.848	112	874456	25.31 ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.901	131	305947	21.87 ug/L	98
73) m,p-Xylene	10.983	91	2345194	52.57 ug/L	87
74) o-Xylene	11.424	91	1247629	23.06 ug/L	93
75) Styrene	11.471	104	623531	14.96 ug/L	98
76) Bromoform	11.529	173	137870	16.10 ug/L	92
77) Isopropylbenzene	11.723	105	1483693	24.59 ug/L	94
80) cis-1,4-Dichloro-2-butene	12.070	53	96902	18.41 ug/L #	85
81) n-Propylbenzene	12.146	91	1864164	29.11 ug/L	89
82) Bromobenzene	12.164	156	326735	23.72 ug/L	97
83) 1,1,2,2-Tetrachloroethane	12.205	83	385398	25.46 ug/L	90
84) 1,3,5-Trimethylbenzene	12.328	105	1161139	23.68 ug/L	91
85) 2-Chlorotoluene	12.334	91	1269485	27.65 ug/L	96
86) trans-1,4-Dichloro-2-B...	12.381	53	111559	23.49 ug/L #	68
87) 1,2,3-Trichloropropane	12.364	110	106771	25.90 ug/L	92
88) Cyclohexanone	12.428	55	51748	140.67 ug/L	92
89) 4-Chlorotoluene	12.499	91	1208450	26.73 ug/L	93
90) a-Methyl Styrene	12.669	118	12881	0.45 ug/L #	1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978041.D
Acq On : 14 Jul 2016 2:03 pm
Operator : darshnap
Sample : fa35362-1msd ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:23:06 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	841519	28.07	ug/L		95
92)	1,2,4-Trimethylbenzene	12.740	105	1094388	22.09	ug/L		96
93)	Pentachloroethane	12.722	167	177398	22.49	ug/L		84
94)	sec-Butylbenzene	12.851	105	1653299	28.16	ug/L		93
95)	4-Isopropyltoluene	12.981	119	1291205	25.83	ug/L		95
96)	1,3-Dichlorobenzene	13.122	146	652018	24.56	ug/L		97
97)	1,4-Dichlorobenzene	13.204	146	660083	24.55	ug/L		96
98)	n-Butylbenzene	13.415	92	854115	26.34	ug/L		87
99)	Benzyl Chloride	13.433	126	122977	19.78	ug/L	#	69
100)	1,2-Dichlorobenzene	13.633	146	623998	23.86	ug/L		98
101)	1,2-Dibromo-3-Chloropr...	14.367	75	70351	22.74	ug/L		77
102)	Hexachlorobutadiene	14.914	225	199475	22.96	ug/L		91
103)	1,2,4-Trichlorobenzene	14.961	180	418682	22.26	ug/L		98
104)	Naphthalene	15.243	128	1025161	25.67	ug/L		98
105)	1,2,3-Trichlorobenzene	15.413	180	386661	22.40	ug/L		99
107)	Ethanol	4.267	45	84756m	540.00	ug/L		
108)	acrolein	4.743	56	325136	105.69	ug/L		100
109)	Tert Butyl Alcohol	5.360	59	1319138	848.41	ug/L		86
110)	tert Amyl alcohol	7.558	59	264865	201.89	ug/L		96
111)	Isobutyl alcohol	7.440	42	238390	459.19	ug/L	#	81
112)	1,4-Dioxane	8.650	88	63691	565.95	ug/L		97
113)	3,3-Dimethyl-1-butanol	10.419	57	1470542	1144.29	ug/L		95

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

7.4.2

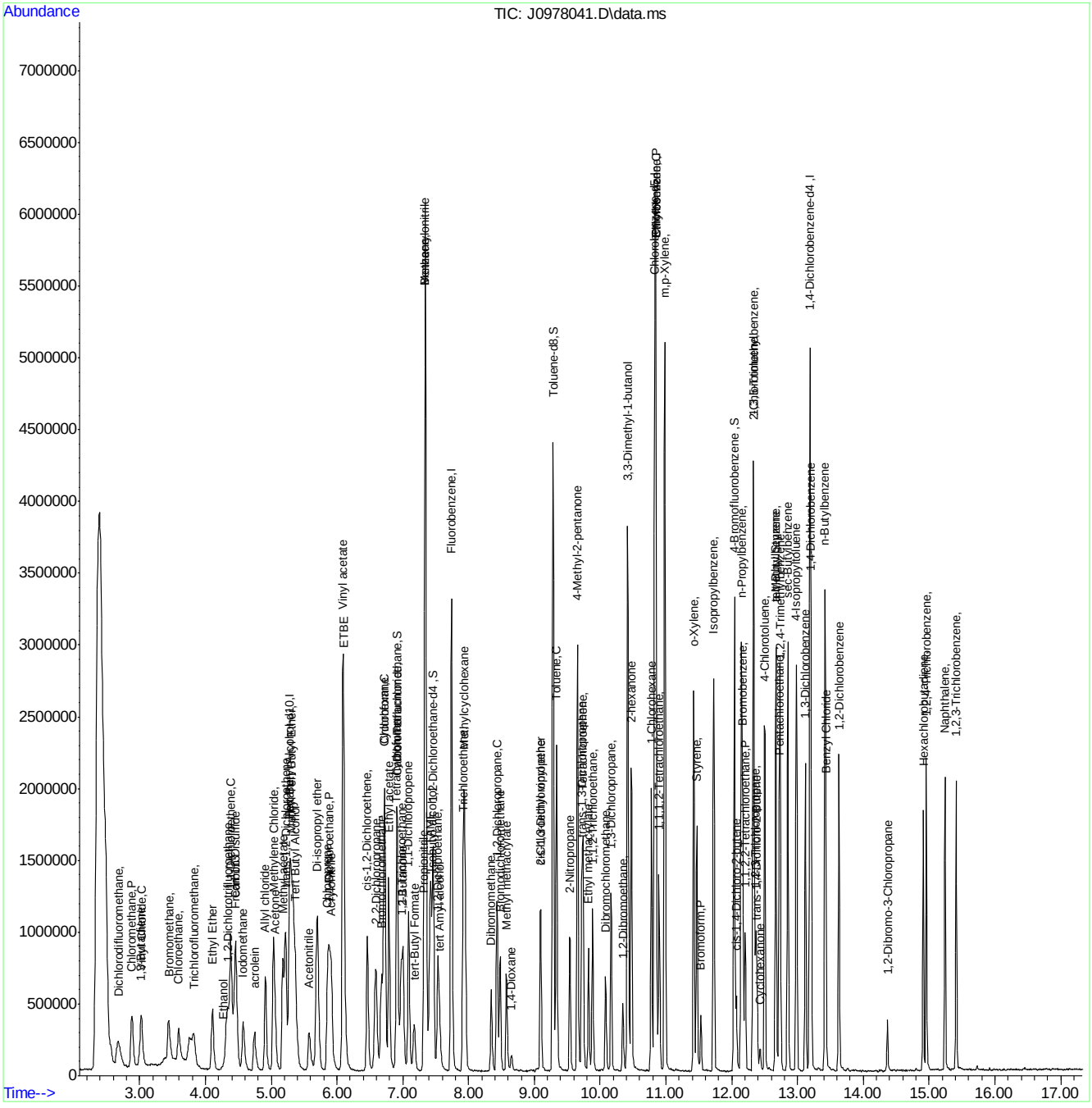
7

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978041.D
Acq On : 14 Jul 2016 2:03 pm
Operator : darshnap
Sample : fa35362-1msd ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:23:06 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



SGS ACCUTEST FA35362

Manual Integration Approval Summary

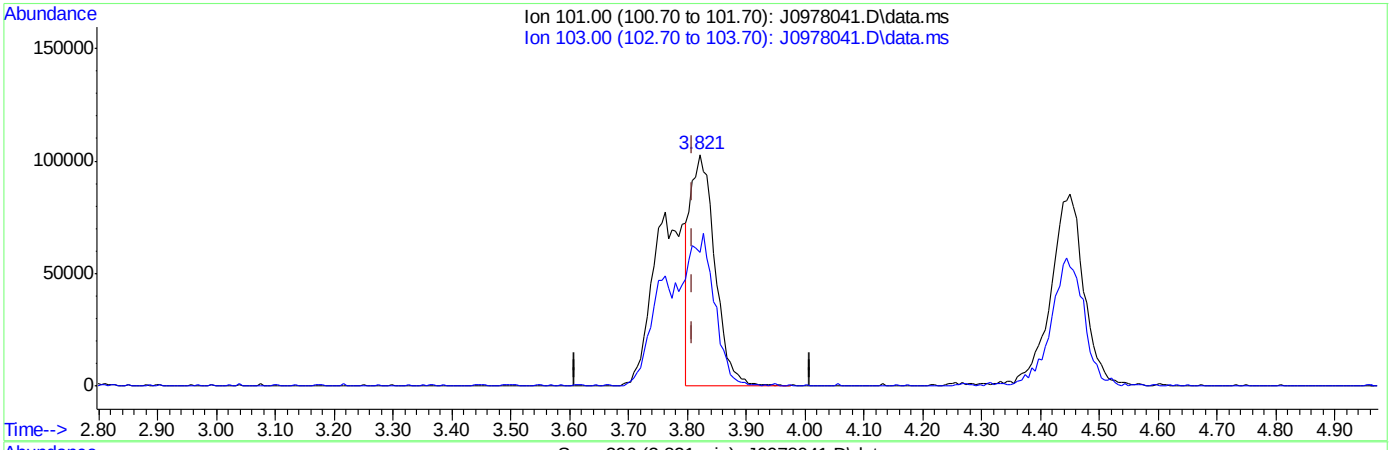
Sample Number:	FA35362-1MSD	**Method:**	SW846 8260C
Lab FileID:	J0978041.D	**Analyst approved:**	07/14/16 14:28 Darshna Patel
Injection Time:	07/14/16 14:03	**Supervisor approved:**	07/14/16 15:01 Juan Garcia

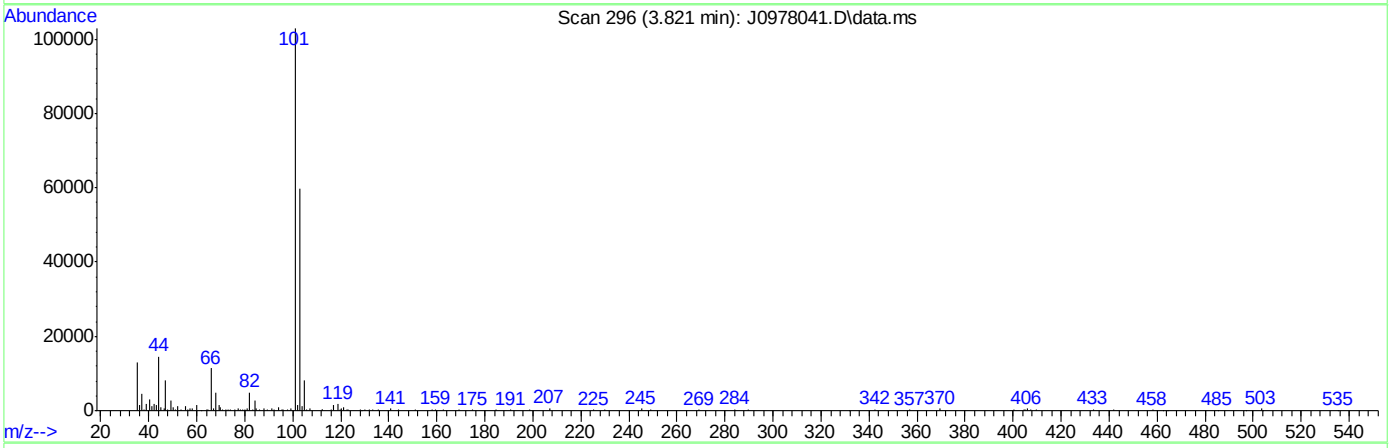
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.82	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978041.D
Acq On : 14 Jul 2016 2:03 pm
Operator : darshnap
Sample : fa35362-1msd ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:22:31 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978041.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.012) 15.73ug/L

response 299263

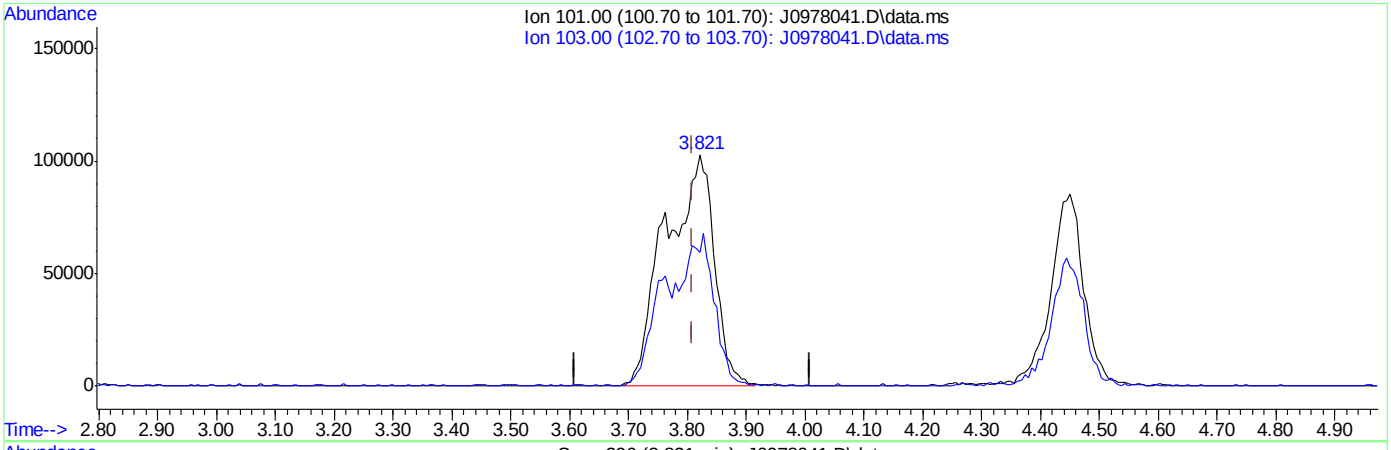
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	57.48
0.00	0.00	0.00
0.00	0.00	0.00

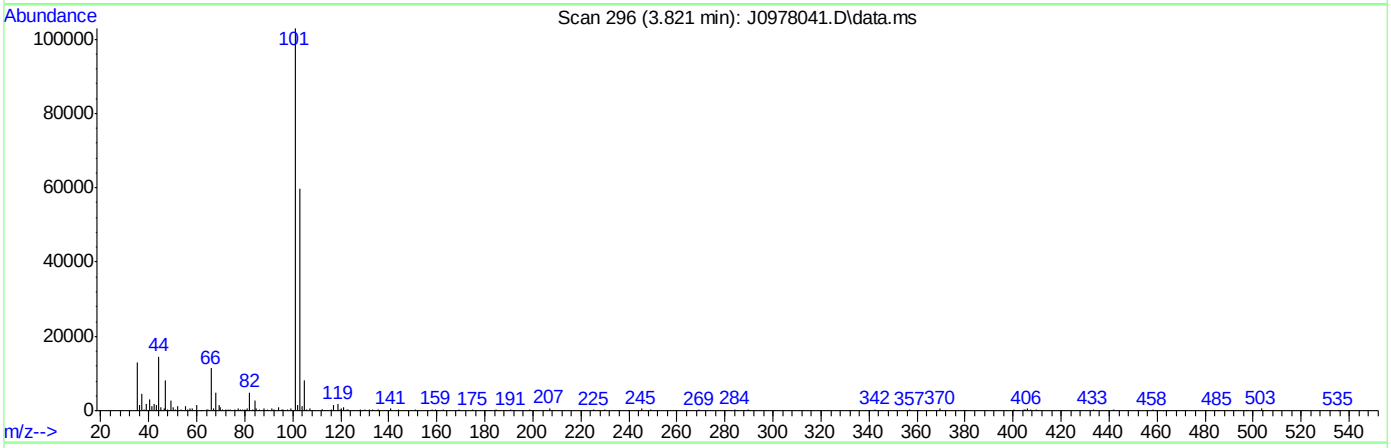
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\071416\
Data File : J0978041.D
Acq On    : 14 Jul 2016   2:03 pm
Operator  : darshnap
Sample    : fa35362-1msd ma                          Inst     : MSVOA6
Misc      : MS34406,vj5371,,,,,
ALS Vial  : 9   Sample Multiplier: 1

Quant Time: Jul 14 14:22:31 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title  : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration
```





TIC: J0978041.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.012) 30.78ug/L m

response 585543

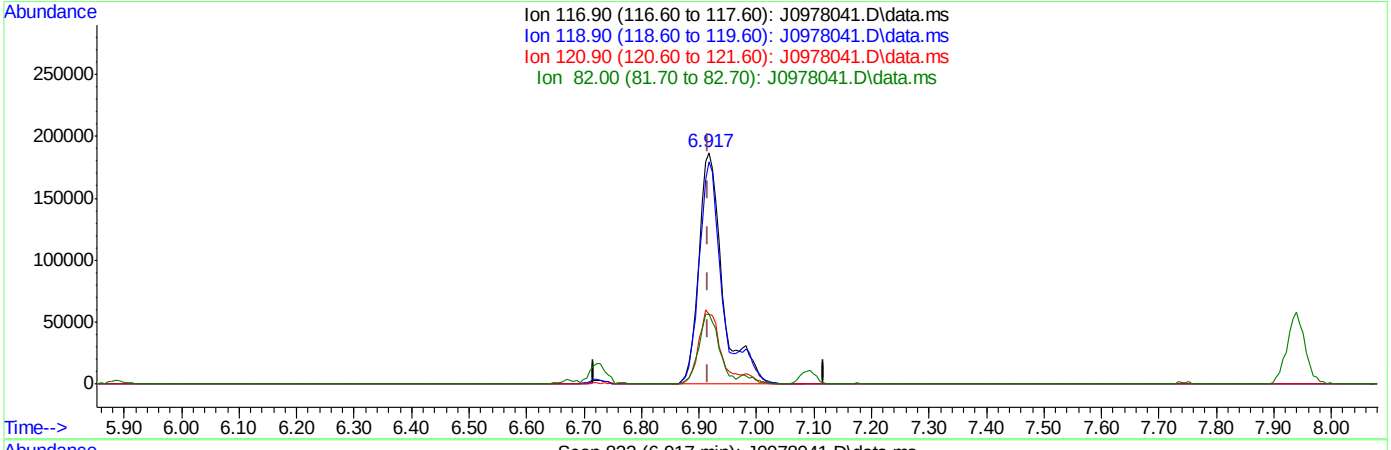
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	57.97
0.00	0.00	0.00
0.00	0.00	0.00

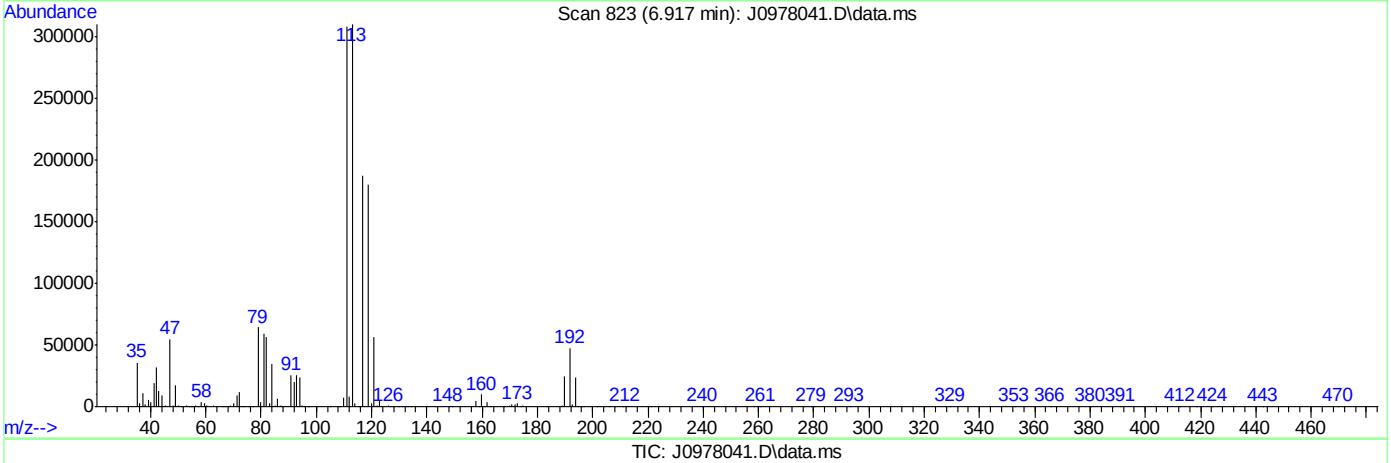
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978041.D
Acq On : 14 Jul 2016 2:03 pm
Operator : darshnap
Sample : fa35362-1msd ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:22:31 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978041.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 27.84ug/L

response 541443

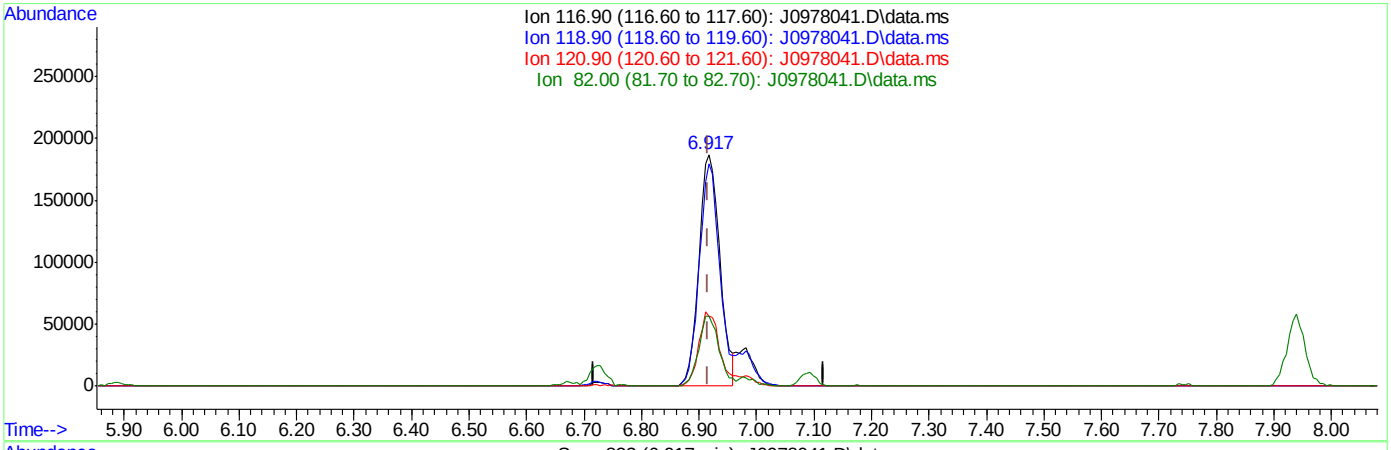
Ion	Exp%	Act%
116.90	100	100
118.90	97.20	96.17
120.90	30.70	30.12
82.00	25.10	30.05

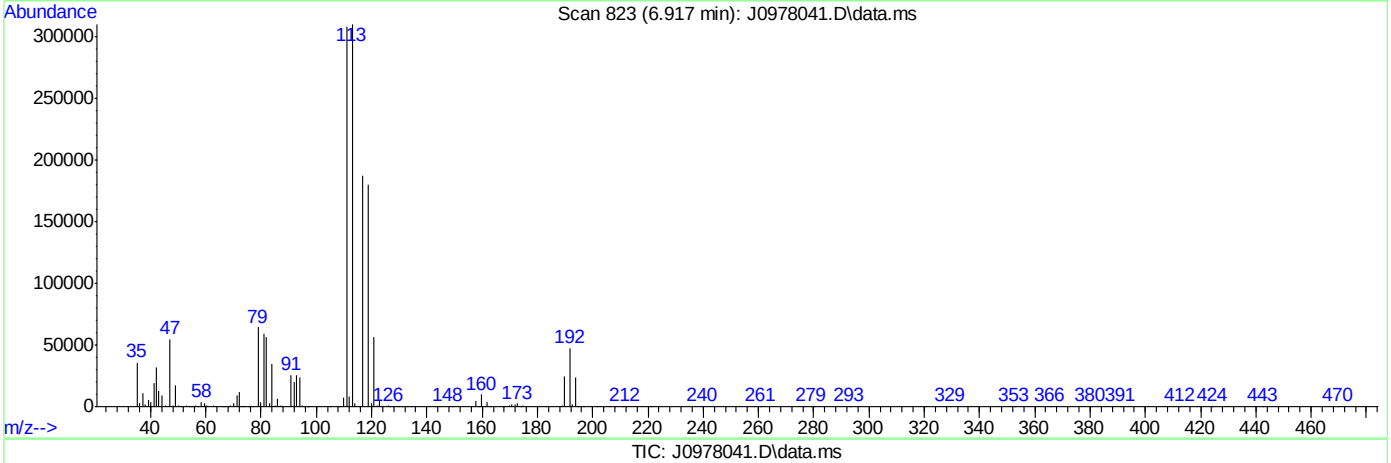
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978041.D
Acq On : 14 Jul 2016 2:03 pm
Operator : darshnap
Sample : fa35362-1msd ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:22:31 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978041.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 24.28ug/L m

response 473747

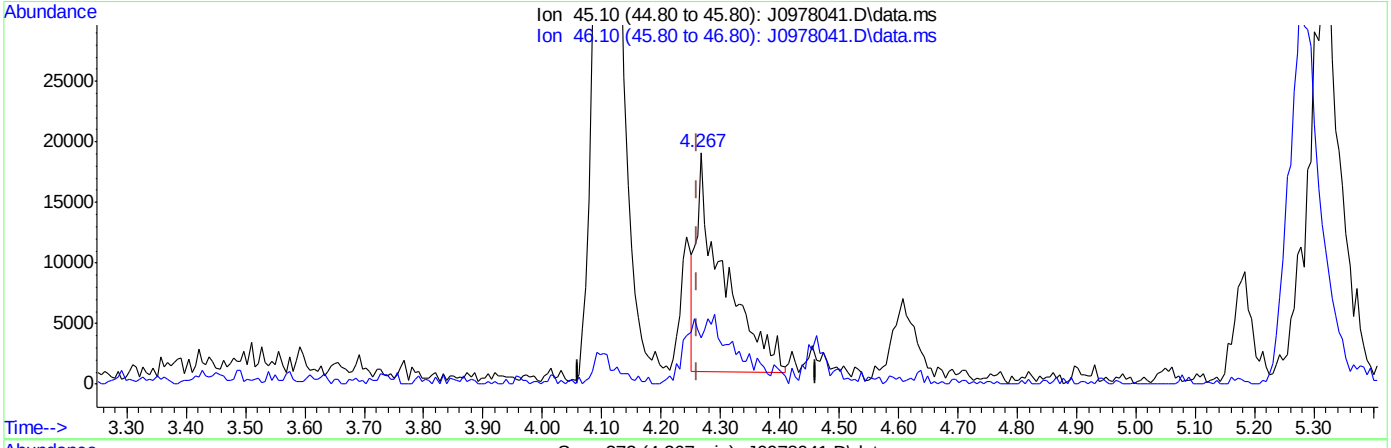
Ion	Exp%	Act%
116.90	100	100
118.90	97.20	96.17
120.90	30.70	30.12
82.00	25.10	30.14

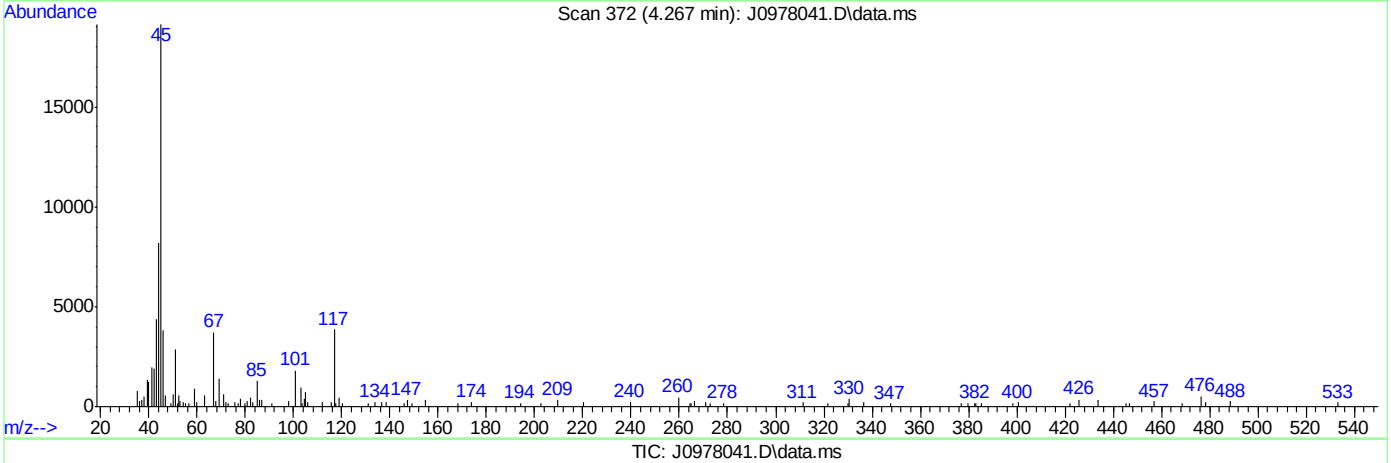
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978041.D
Acq On : 14 Jul 2016 2:03 pm
Operator : darshnap
Sample : fa35362-1msd ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:22:31 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978041.D\data.ms

(107) Ethanol

4.267min (+0.006) 370.82ug/L

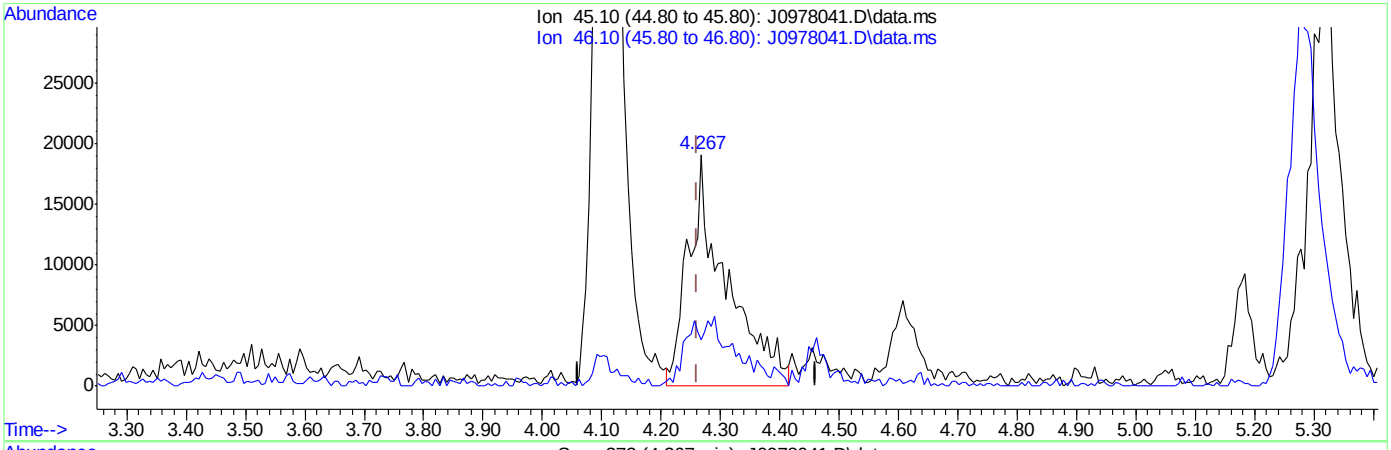
response 58407

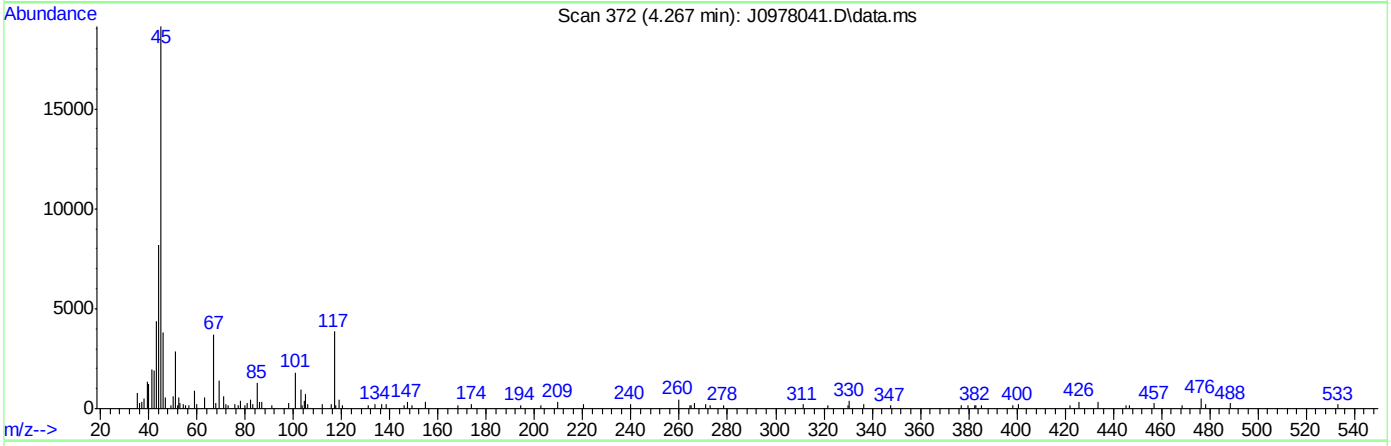
Ion	Exp%	Act%
45.10	100	100
46.10	30.50	17.69
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978041.D
Acq On : 14 Jul 2016 2:03 pm
Operator : darshnap
Sample : fa35362-1msd ma Inst : MSVOA6
Misc : MS34406,vj5371,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 14 14:22:31 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978041.D\data.ms

(107) Ethanol

4.267min (+0.006) 540.00ug/L m

response 84756

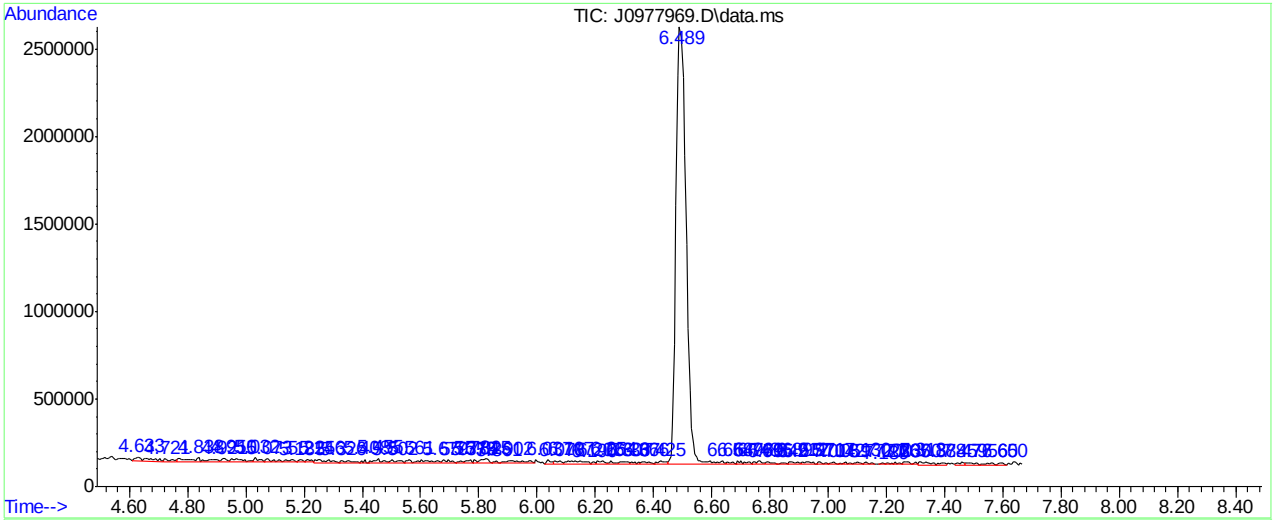
Ion	Exp%	Act%
45.10	100	100
46.10	30.50	19.91
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\071216\J0977969.D Vial: 1
Acq On : 12 Jul 2016 7:59 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34317,vj5368,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ071216a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 579, 580, 581; Background Corrected with Scan 571

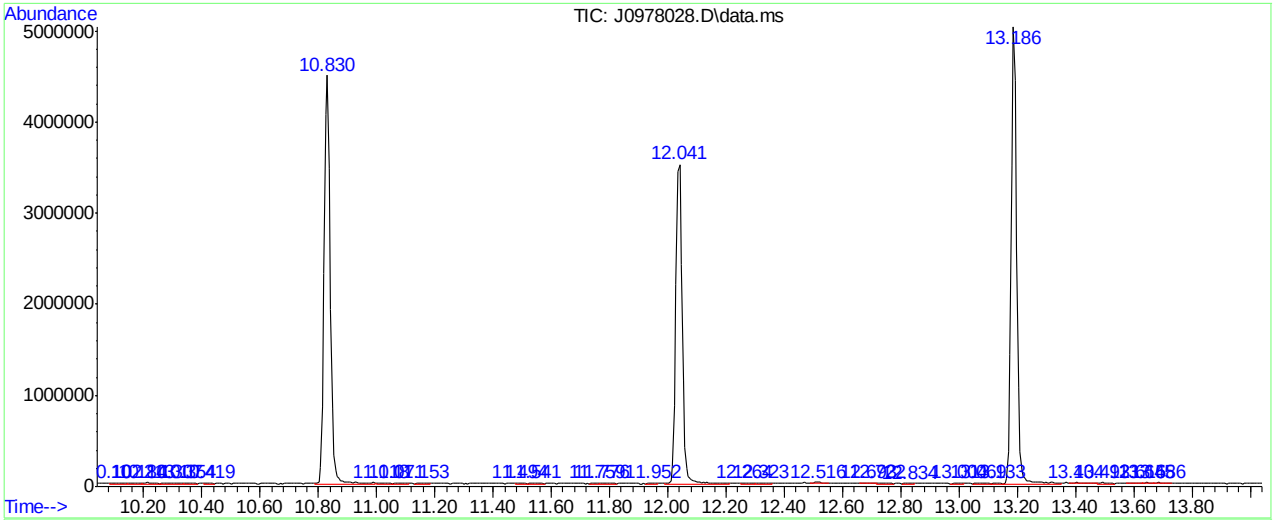
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	102742	PASS
75	95	30	60	49.7	247016	PASS
95	95	100	100	100.0	496607	PASS
96	95	5	9	6.8	33543	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	79.9	396800	PASS
175	174	5	9	7.7	30485	PASS
176	174	95	101	100.5	398867	PASS
177	176	5	9	7.5	29968	PASS

J0977969.D MSJ071216a.M Tue Jul 12 14:16:04 2016

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\071416\J0978028.D Vial: 1
Acq On : 14 Jul 2016 8:13 am Operator: darshnap
Sample : bfb Inst : MSVOA6
Misc : MS34397,vj5370,,,,, Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\msdchem\1\methods\MSJ071216a.M (RTE Integrator)
Title : SW-846 Method 5030B/8260B & EPA 624



AutoFind: Scans 1694, 1695, 1696; Background Corrected with Scan 1687

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.1	160365	PASS
75	95	30	60	52.6	350913	PASS
95	95	100	100	100.0	666575	PASS
96	95	5	9	7.2	48157	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.9	432768	PASS
175	174	5	9	7.7	33275	PASS
176	174	95	101	100.6	435200	PASS
177	176	5	9	6.6	28811	PASS

J0978028.D MSJ071216a.M Thu Jul 14 11:37:16 2016

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/13/16 14:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:59:34 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	3328165	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	2379006	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	1295567	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	359546	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	887759	52.04	ug/L	-0.01
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.08%			
46) 1,2-Dichloroethane-d4	7.458	65	1170800	53.77	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.54%			
57) Toluene-d8	9.285	98	3110037	49.20	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 98.40%			
79) 4-Bromofluorobenzene	12.041	95	1374292	66.40	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 132.80%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.651	85	31378m	1.65	ug/L	
3) Chloromethane	2.881	50	39706	1.50	ug/L	88
4) Vinyl Chloride	3.010	62	30781	1.39	ug/L	86
5) 1,3-Butadiene	3.010	54	33359	1.84	ug/L #	84
6) Bromomethane	3.445	94	21387	1.08	ug/L	86
7) Chloroethane	3.591	64	17759m	1.10	ug/L	
8) Trichlorofluoromethane	3.815	101	34182m	0.98	ug/L	
9) Ethyl Ether	4.103	59	21183	1.37	ug/L	87
10) 1,2-Dichlorotrifluoroe...	4.320	67	28478m	1.41	ug/L	
11) 1,1-Dichloroethene	4.385	61	30043	1.09	ug/L	85
12) Freon 113	4.461	101	18701	1.09	ug/L #	70
13) Carbon Disulfide	4.461	76	71307	1.31	ug/L	96
14) Iodomethane	4.573	142	34889	1.17	ug/L	96
15) Allyl chloride	4.908	41	61347m	2.34	ug/L	
16) Methylene Chloride	5.031	49	43788	1.26	ug/L	91
17) Acetone	5.060	58	5173m	3.95	ug/L	
18) Methyl acetate	5.172	74	14377	6.44	ug/L #	86
19) trans-1,2-Dichloroethene	5.213	61	33361	1.34	ug/L	87
20) Hexane	5.278	56	27305	1.57	ug/L #	89
21) Methyl Tert Butyl Ether	5.319	73	66138	1.44	ug/L	86
22) Acetonitrile	5.577	40	21525	23.50	ug/L	93
23) Di-isopropyl ether	5.701	45	86074	1.24	ug/L	96
24) Chloroprene	5.848	53	52960	1.72	ug/L	90
25) 1,1-Dichloroethane	5.883	63	37516	1.15	ug/L	82
26) Acrylonitrile	5.918	53	42375m	7.53	ug/L	
27) ETBE	6.100	59	81351	1.37	ug/L	95
28) Vinyl acetate	6.094	43	242436m	6.93	ug/L	
29) cis-1,2-Dichloroethene	6.459	96	23569	1.16	ug/L	84
30) 2,2-Dichloropropane	6.582	77	38768m	1.68	ug/L	
31) Bromochloromethane	6.670	128	10688	1.19	ug/L #	52
32) Cyclohexane	6.717	56	48694	1.48	ug/L #	75
33) Chloroform	6.717	83	41991	1.20	ug/L	91
34) Ethyl acetate	6.794	43	98989	7.33	ug/L	96

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:59:34 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.905	42	13640m	2.97 ug/L	
37) Carbon Tetrachloride	6.917	117	28936m	1.27 ug/L	
38) 1,1,1-Trichloroethane	6.976	97	33743	1.17 ug/L	90
39) 2-Butanone	7.023	43	15744m	2.51 ug/L	
40) 1,1-Dichloropropene	7.087	75	27291	1.15 ug/L	96
41) tert-Butyl Formate	7.170	59	282246	31.32 ug/L #	61
42) Propionitrile	7.311	54	50422	24.82 ug/L	90
43) Methacrylonitrile	7.340	41	233696	24.18 ug/L	90
44) Benzene	7.340	78	85320	1.23 ug/L	56
45) TAME	7.411	73	73367	1.50 ug/L	91
47) 1,2-Dichloroethane	7.528	62	34282	1.31 ug/L	93
48) Trichloroethene	7.922	95	23636	1.33 ug/L	89
49) Methylcyclohexane	7.939	83	37679	1.26 ug/L	84
50) Dibromomethane	8.345	93	13216	1.22 ug/L	87
51) 1,2-Dichloropropane	8.433	63	22412	1.20 ug/L	91
52) Bromodichloromethane	8.474	83	29573	1.25 ug/L	90
53) Methyl methacrylate	8.580	41	36499m	2.73 ug/L	
54) 2-Chloroethyl vinyl ether	8.991	63	65753	6.69 ug/L	88
55) cis-1,3-Dichloropropene	9.097	75	33225	1.26 ug/L	92
58) Toluene	9.338	91	89256	1.21 ug/L	99
59) 2-Nitropropane	9.543	41	32691	9.40 ug/L #	80
60) 4-Methyl-2-pentanone	9.655	43	24214	1.63 ug/L	85
61) trans-1,3-Dichloropropene	9.720	75	31843	1.42 ug/L	88
62) Tetrachloroethene	9.737	166	17587	0.87 ug/L	81
63) Ethyl methacrylate	9.825	69	51907	2.76 ug/L #	82
64) 1,1,2-Trichloroethane	9.884	83	18106	1.45 ug/L	95
65) Dibromochloromethane	10.084	129	22299	1.40 ug/L	97
66) 1,3-Dichloropropane	10.166	76	29597	1.12 ug/L	87
67) 1,2-Dibromoethane	10.348	107	18805	1.30 ug/L	90
68) 2-hexanone	10.478	43	17526	1.68 ug/L	88
69) 1-Chlorohexane	10.783	91	31030	1.34 ug/L	95
70) Ethylbenzene	10.848	91	98131	1.15 ug/L	93
71) Chlorobenzene	10.848	112	52897	1.11 ug/L	93
72) 1,1,1,2-Tetrachloroethane	10.901	131	21430	1.24 ug/L	96
73) m,p-Xylene	10.983	91	150378	2.41 ug/L	97
74) o-Xylene	11.424	91	83801	1.29 ug/L	97
75) Styrene	11.471	104	62816	1.28 ug/L	91
76) Bromoform	11.535	173	13762	1.40 ug/L	87
77) Isopropylbenzene	11.729	105	99471	1.29 ug/L	99
80) cis-1,4-Dichloro-2-butene	12.076	53	16232	3.32 ug/L #	78
81) n-Propylbenzene	12.146	91	114348	1.33 ug/L	99
82) Bromobenzene	12.170	156	22637	1.11 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.205	83	30971	1.75 ug/L	83
84) 1,3,5-Trimethylbenzene	12.328	105	84965	1.37 ug/L	97
85) 2-Chlorotoluene	12.340	91	87436	1.45 ug/L	96
86) trans-1,4-Dichloro-2-B...	12.393	53	8722	1.87 ug/L #	73
87) 1,2,3-Trichloropropane	12.370	110	10006	2.04 ug/L	87
88) Cyclohexanone	12.434	55	8539m	17.21 ug/L	
89) 4-Chlorotoluene	12.505	91	79926	1.39 ug/L	89
90) a-Methyl Styrene	12.593	118	75806	2.21 ug/L	99

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:59:34 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	50170	1.45	ug/L	96
92) 1,2,4-Trimethylbenzene	12.740	105	92144	1.46	ug/L	97
93) Pentachloroethane	12.722	167	25765	2.67	ug/L	86
94) sec-Butylbenzene	12.851	105	108690	1.37	ug/L	93
95) 4-Isopropyltoluene	12.987	119	87050	1.28	ug/L	94
96) 1,3-Dichlorobenzene	13.122	146	45080	1.12	ug/L	85
97) 1,4-Dichlorobenzene	13.210	146	44483	1.05	ug/L	93
98) n-Butylbenzene	13.421	92	56740	1.48	ug/L #	79
99) Benzyl Chloride	13.433	126	11284	2.27	ug/L #	89
100) 1,2-Dichlorobenzene	13.633	146	50197	1.30	ug/L	93
101) 1,2-Dibromo-3-Chloropr...	14.361	75	4485	1.74	ug/L #	45
102) Hexachlorobutadiene	14.914	225	12387	0.88	ug/L	93
103) 1,2,4-Trichlorobenzene	14.961	180	33013	1.18	ug/L	86
104) Naphthalene	15.249	128	77307	1.89	ug/L	96
105) 1,2,3-Trichlorobenzene	15.413	180	29372	1.28	ug/L	93
108) acrolein	4.737	56	27330	7.51	ug/L	80
109) Tert Butyl Alcohol	5.360	59	21026	11.89	ug/L	73
110) tert Amyl alcohol	7.557	59	17872	13.48	ug/L	89
111) Isobutyl alcohol	7.434	42	22950	29.62	ug/L #	74
112) 1,4-Dioxane	8.656	88	3292	15.82	ug/L #	75
113) 3,3-Dimethyl-1-butanol	10.419	57	115633	72.48	ug/L	92

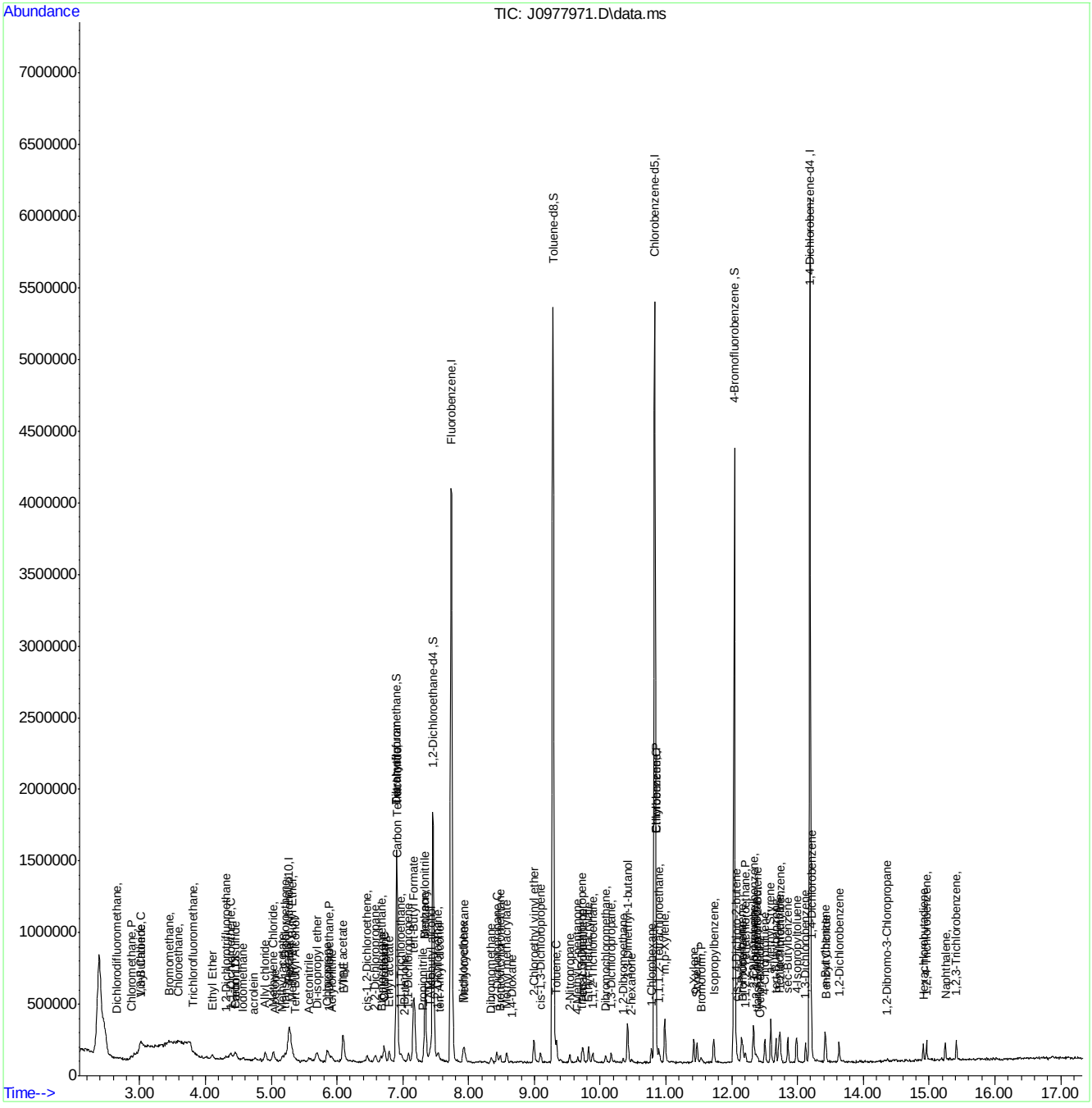
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:59:34 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration



SGS ACCUTEST FA35362

Manual Integration Approval Summary

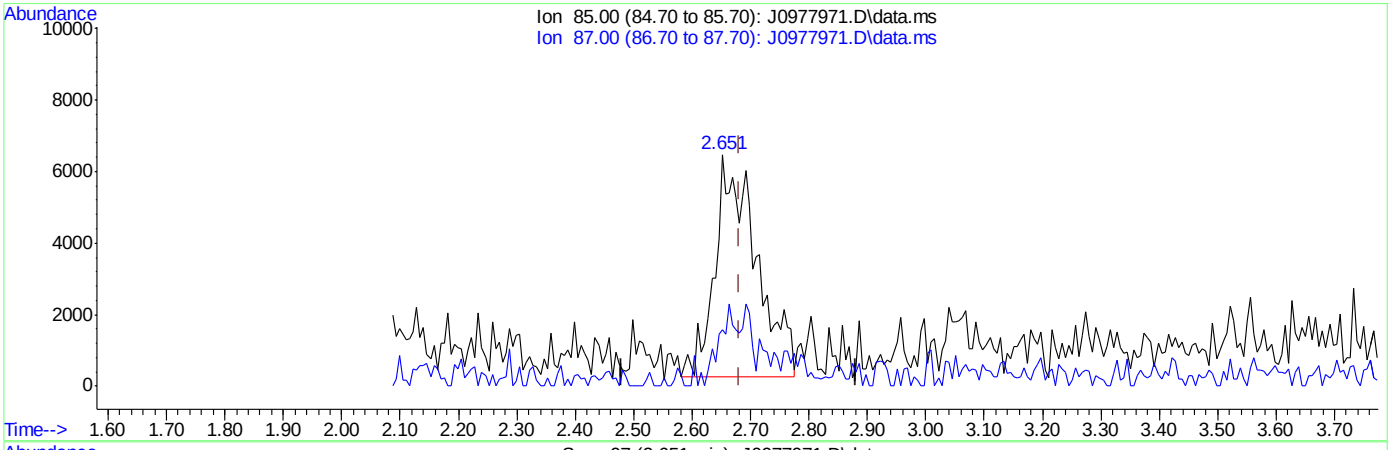
Sample Number: VJ5368-IC5368 **Method:** SW846 8260B
Lab FileID: J0977971.D **Analyst approved:** 07/12/16 14:17 Darshna Patel
Injection Time: 07/12/16 09:01 **Supervisor approved:** 07/13/16 14:14 Juan Garcia

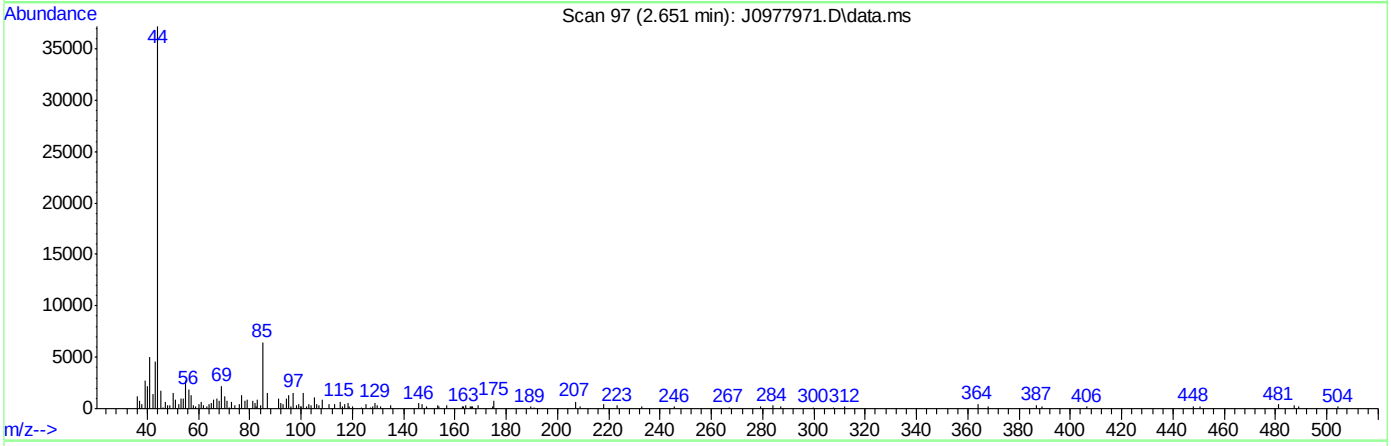
Parameter	CAS	Sig#	R.T. (min.)	Reason
Dichlorodifluoromethane	75-71-8		2.65	Split peak
Chloroethane	75-00-3		3.59	Poor instrument integration
Trichlorofluoromethane	75-69-4		3.81	Split peak
1,2-Dichlorotrifluoroethane	354-23-4		4.32	Poor instrument integration
Allyl Chloride	107-05-1		4.91	Poor instrument integration
Acetone	67-64-1		5.06	Poor instrument integration
Acrylonitrile	107-13-1		5.92	Poor instrument integration
Vinyl Acetate	108-05-4		6.09	Poor instrument integration
2,2-Dichloropropane	594-20-7		6.58	Poor instrument integration
Tetrahydrofuran	109-99-9		6.91	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak
2-Butanone (MEK)	78-93-3		7.02	Poor instrument integration
Methyl Methacrylate	80-62-6		8.58	Poor instrument integration
Cyclohexanone	108-94-1		12.43	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(2) Dichlorodifluoromethane ( )

2.651min (-0.030) 1.61ug/L

response 30567

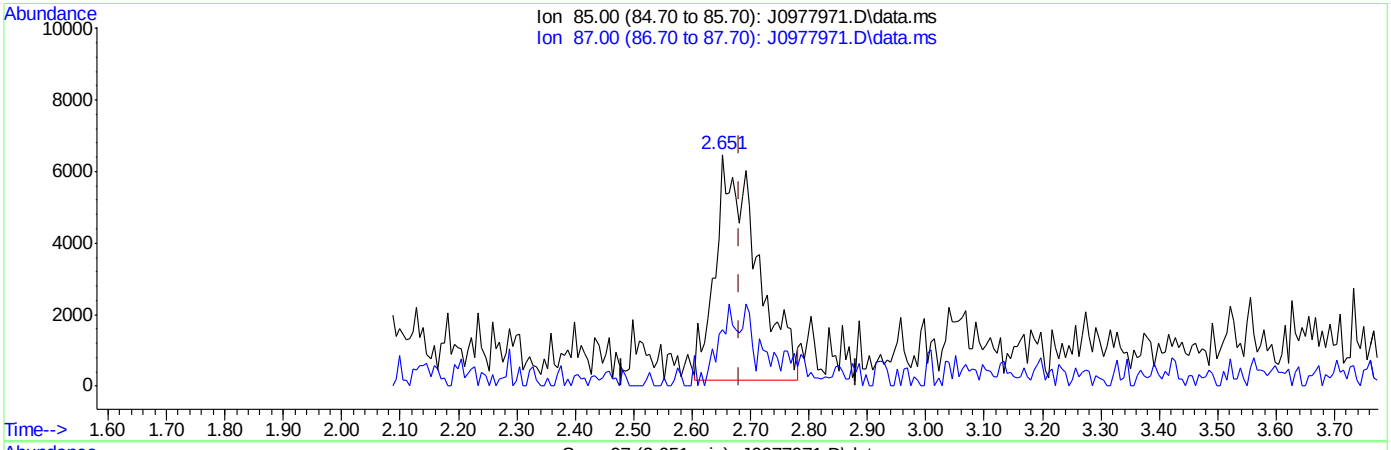
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	20.24
0.00	0.00	0.00
0.00	0.00	0.00

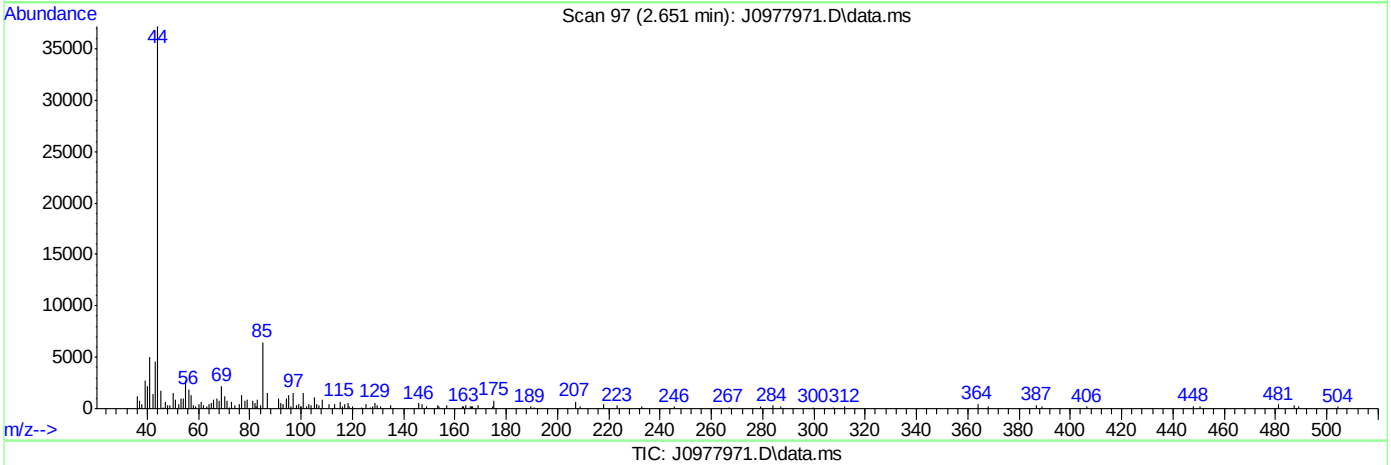
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(2) Dichlorodifluoromethane ( )

2.651min (-0.030) 1.65ug/L m

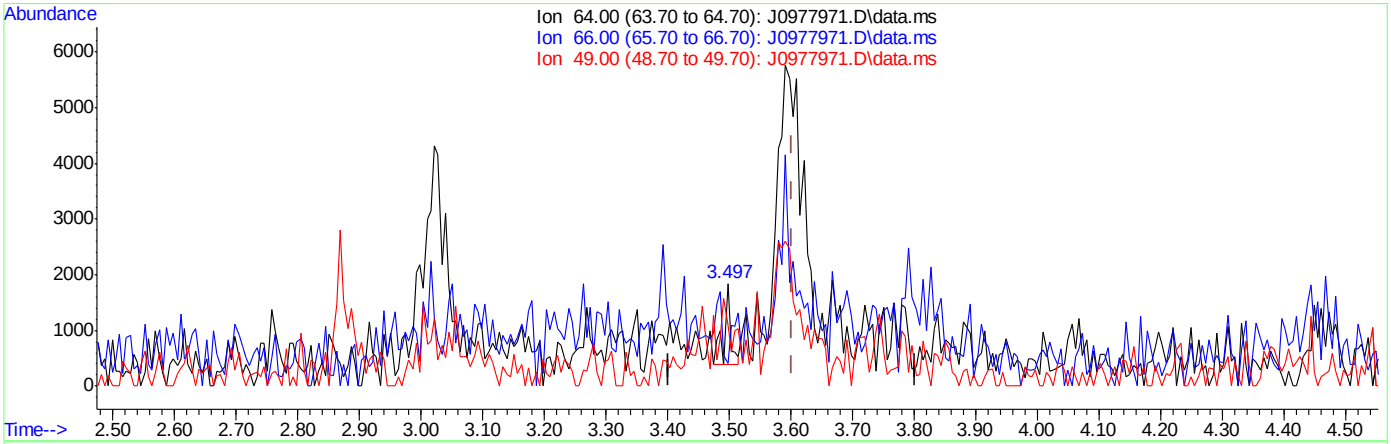
response 31378

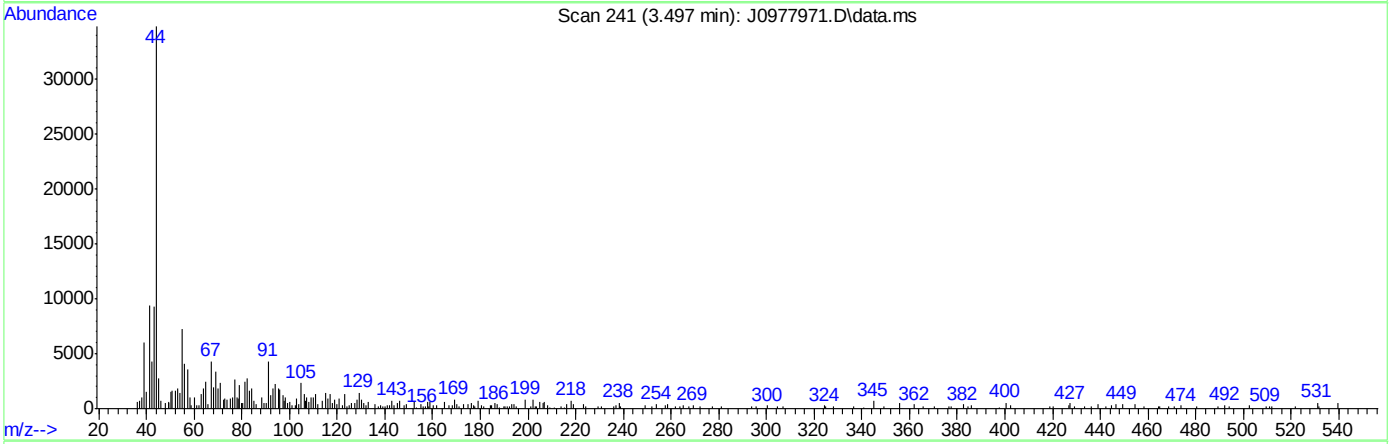
Ion	Exp%	Act%
85.00	100	100
87.00	32.20	24.46
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(7) Chloroethane ( )

3.497min (-0.106) 0.07ug/L

response 1089

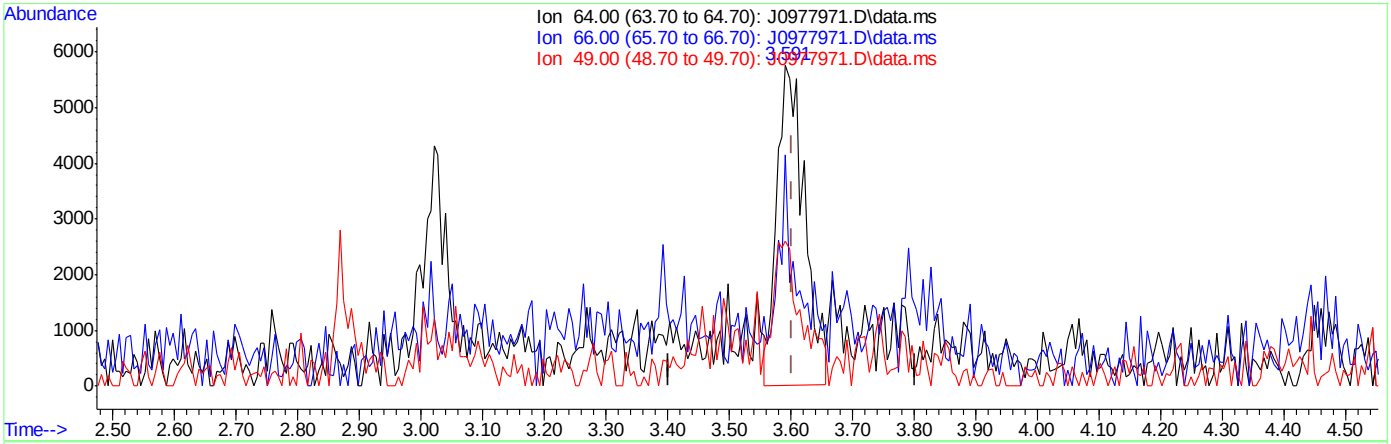
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	0.00
49.00	31.60	3.58
0.00	0.00	0.00

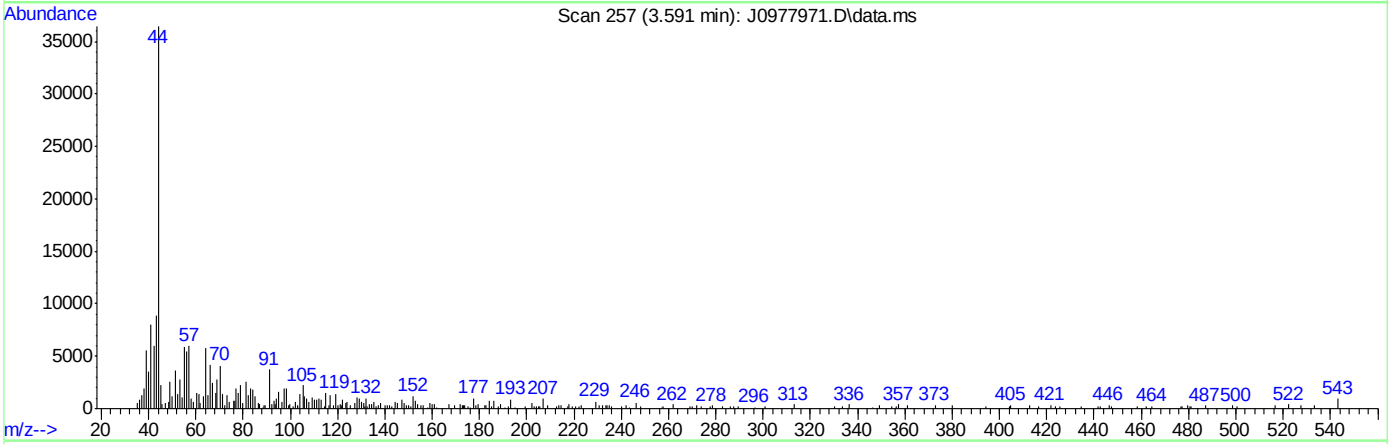
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(7) Chloroethane ( )

3.591min (-0.012) 1.10ug/L m

response 17759

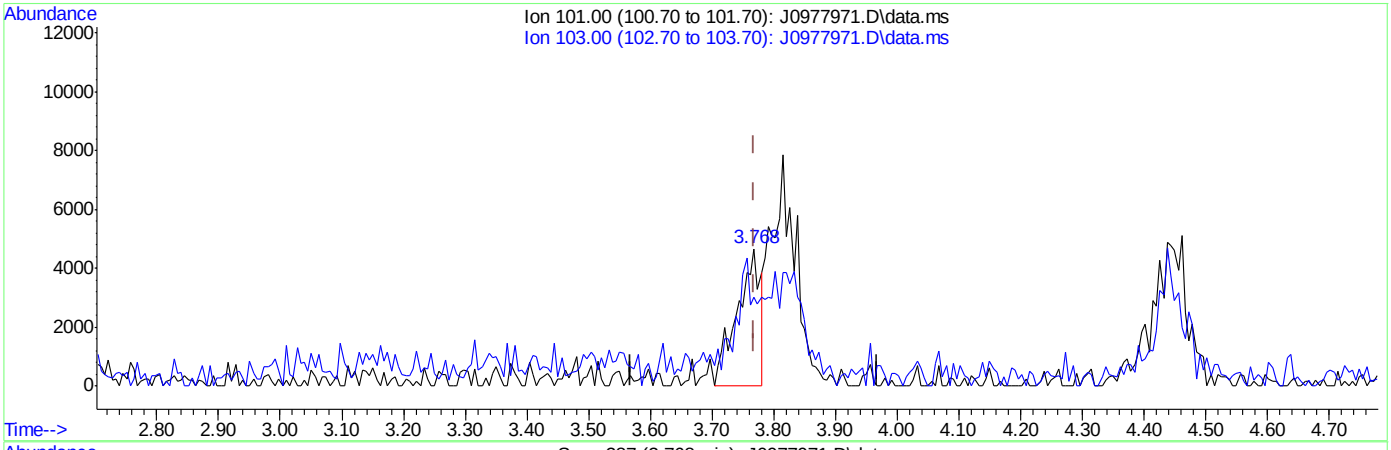
Ion	Exp%	Act%
64.00	100	100
66.00	29.60	72.12#
49.00	31.60	45.03
0.00	0.00	0.00

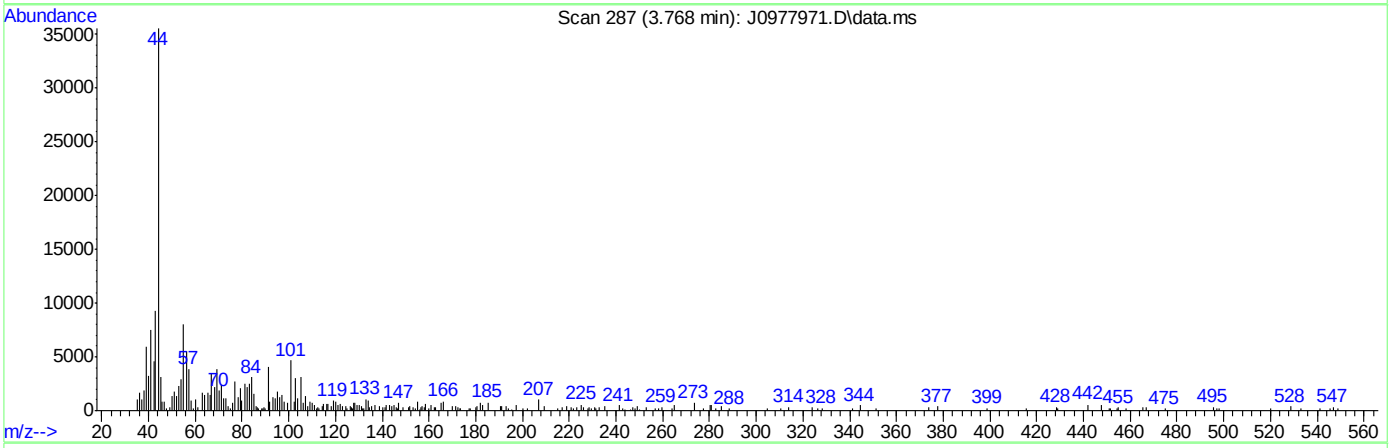
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(8) Trichlorofluoromethane ( )

3.768min (-0.000) 0.35ug/L

response 12150

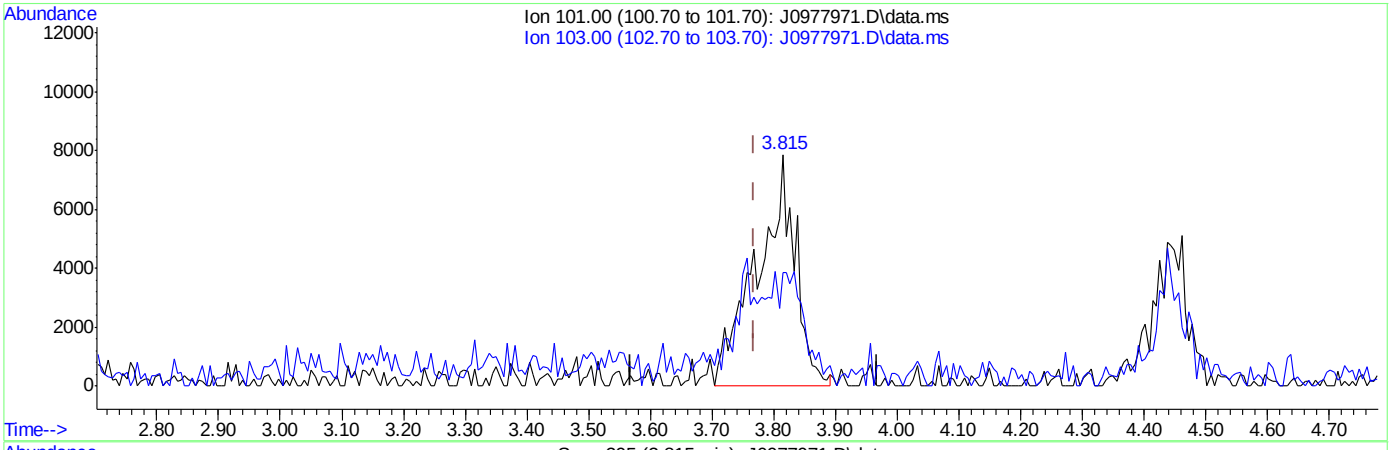
Ion	Exp%	Act%
101.00	100	100
103.00	59.20	50.32
0.00	0.00	0.00
0.00	0.00	0.00

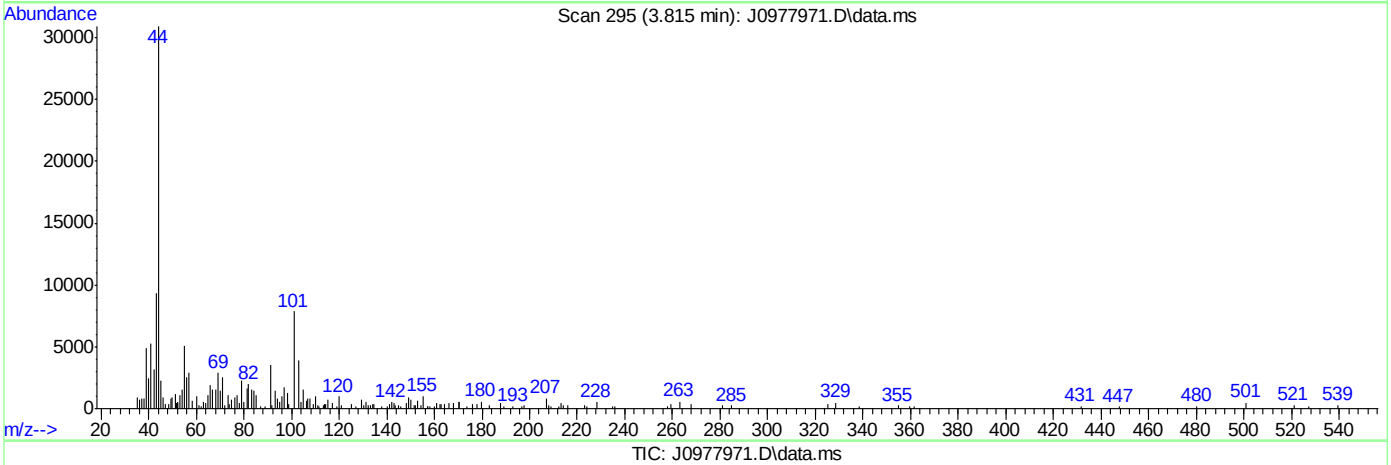
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(8) Trichlorofluoromethane ( )

3.815min (+0.047) 0.98ug/L m

response 34182

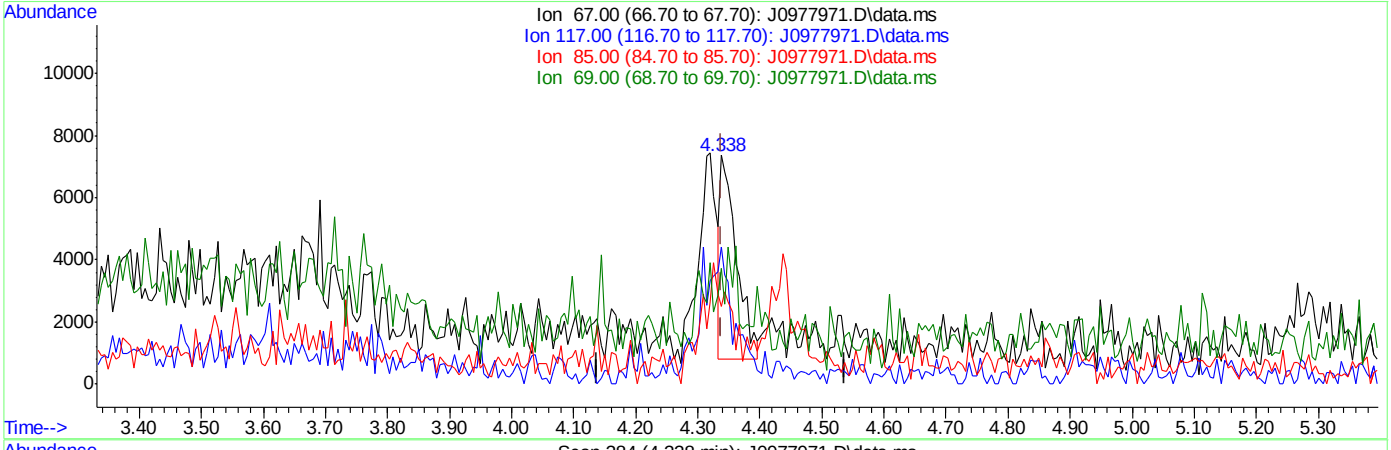
Ion	Exp%	Act%
101.00	100	100
103.00	59.20	49.22
0.00	0.00	0.00
0.00	0.00	0.00

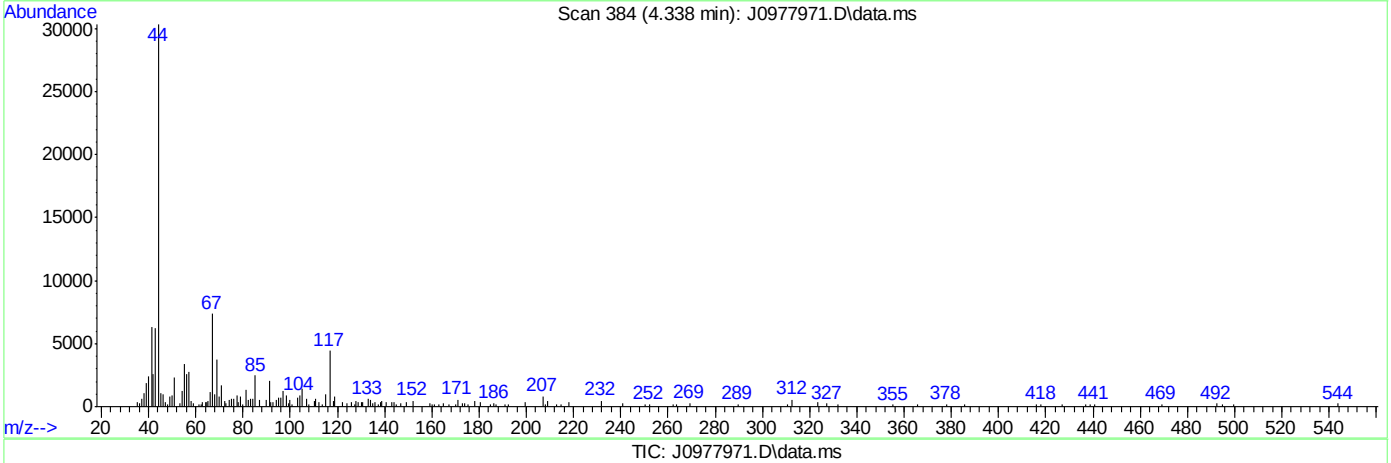
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.338min (-0.000) 0.60ug/L

response 12061

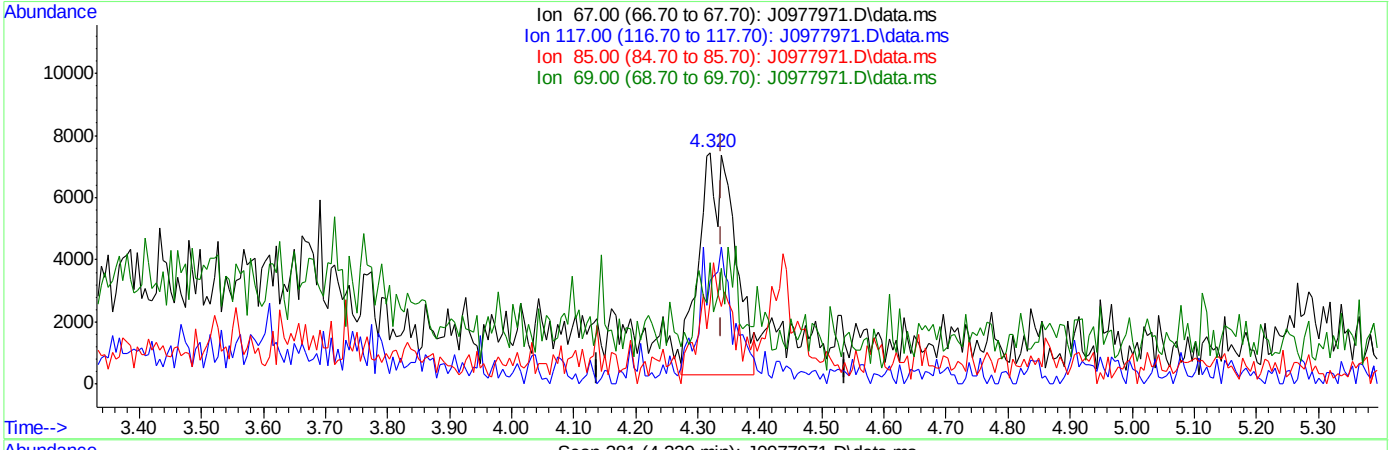
Ion	Exp%	Act%
67.00	100	100
117.00	58.20	66.57
85.00	33.50	23.82
69.00	26.20	14.95

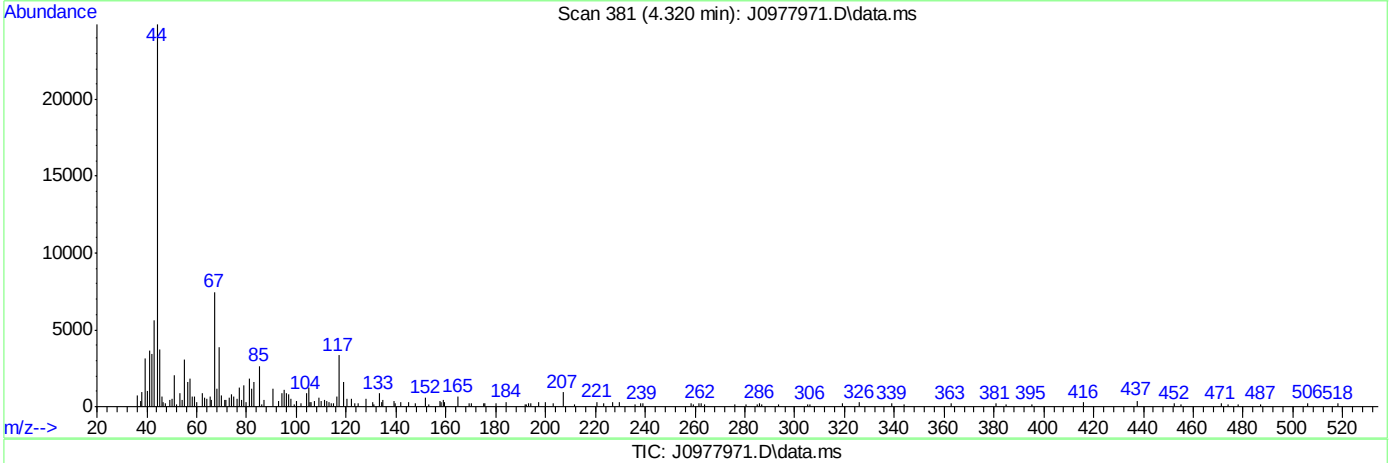
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(10) 1,2-Dichlorotrifluoroethane

4.320min (-0.018) 1.41ug/L m

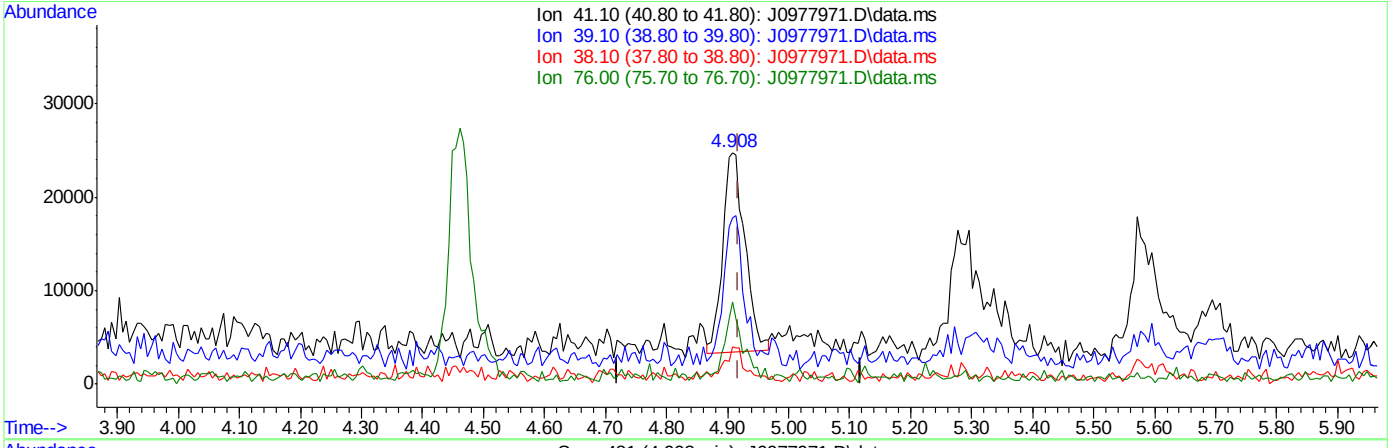
response 28478

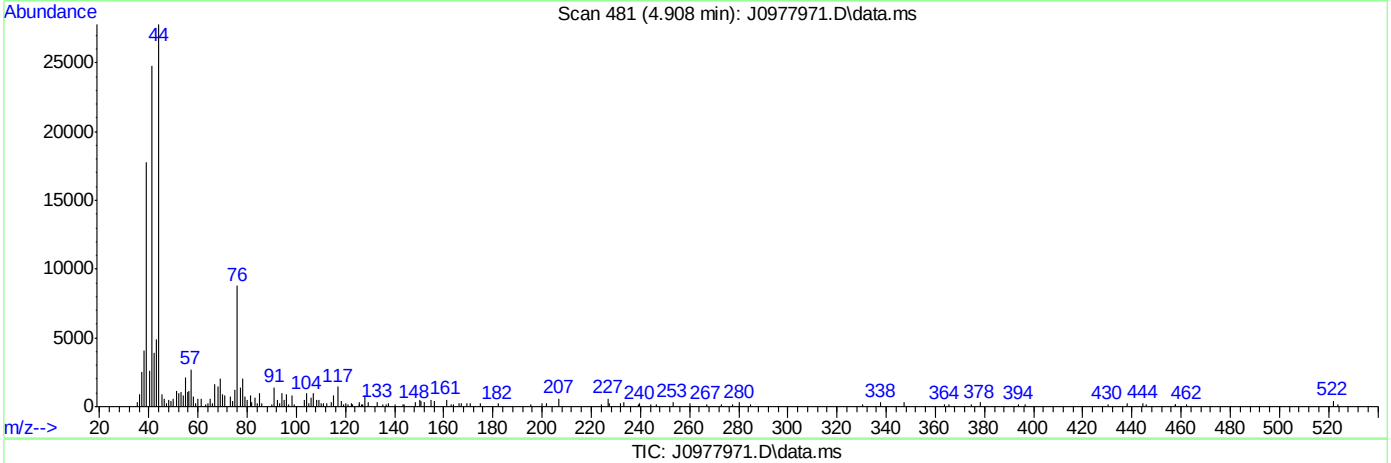
Ion	Exp%	Act%
67.00	100	100
117.00	58.20	44.61
85.00	33.50	35.38
69.00	26.20	52.35#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(15) Allyl chloride

4.908min (-0.011) 2.05ug/L

response 53640

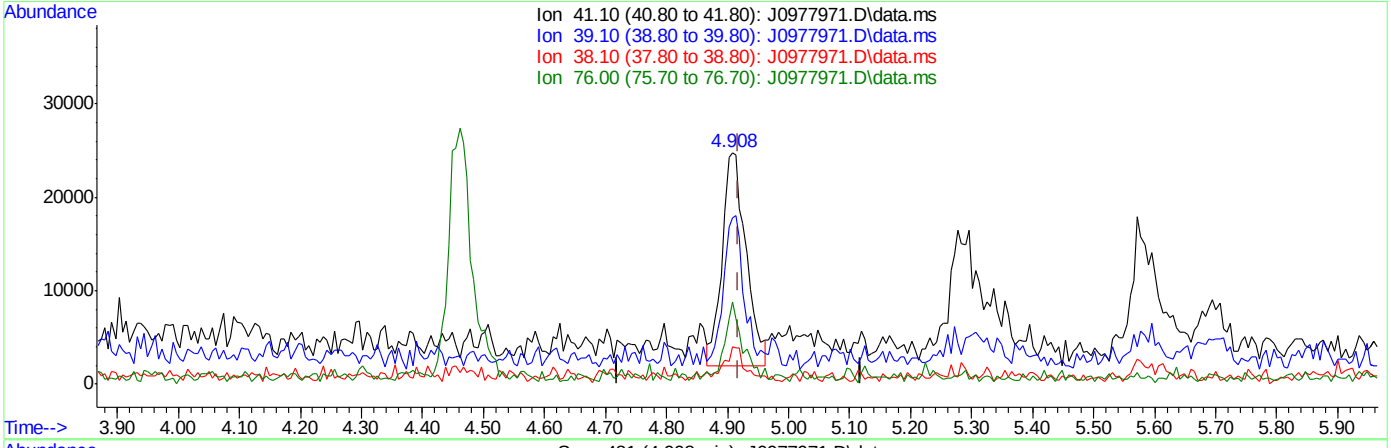
Ion	Exp%	Act%
41.10	100	100
39.10	65.80	74.43
38.10	13.40	17.07
76.00	29.60	39.91

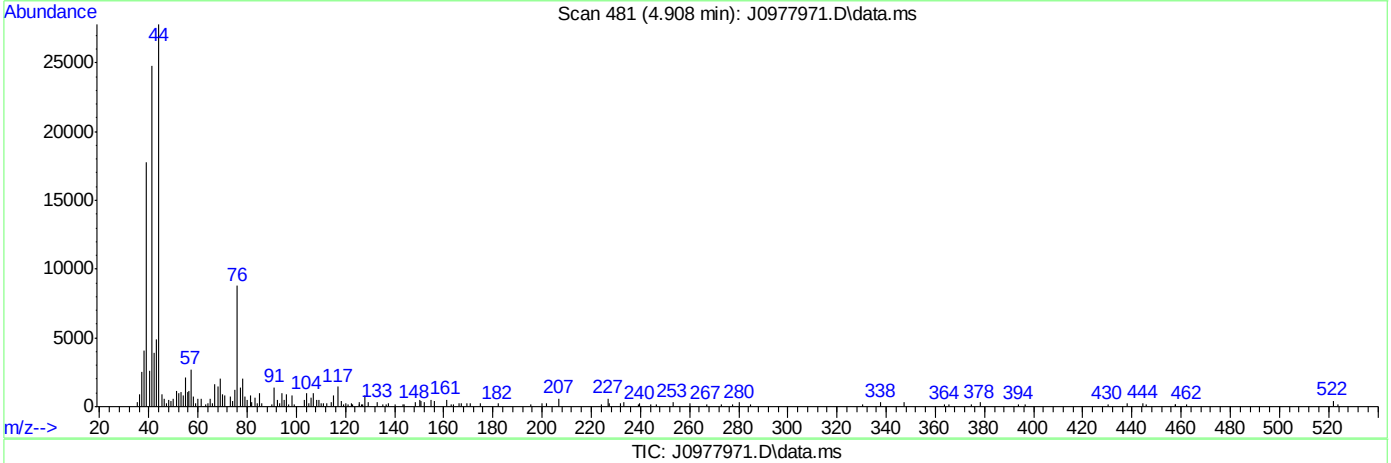
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(15) Allyl chloride

4.908min (-0.011) 2.34ug/L m

response 61347

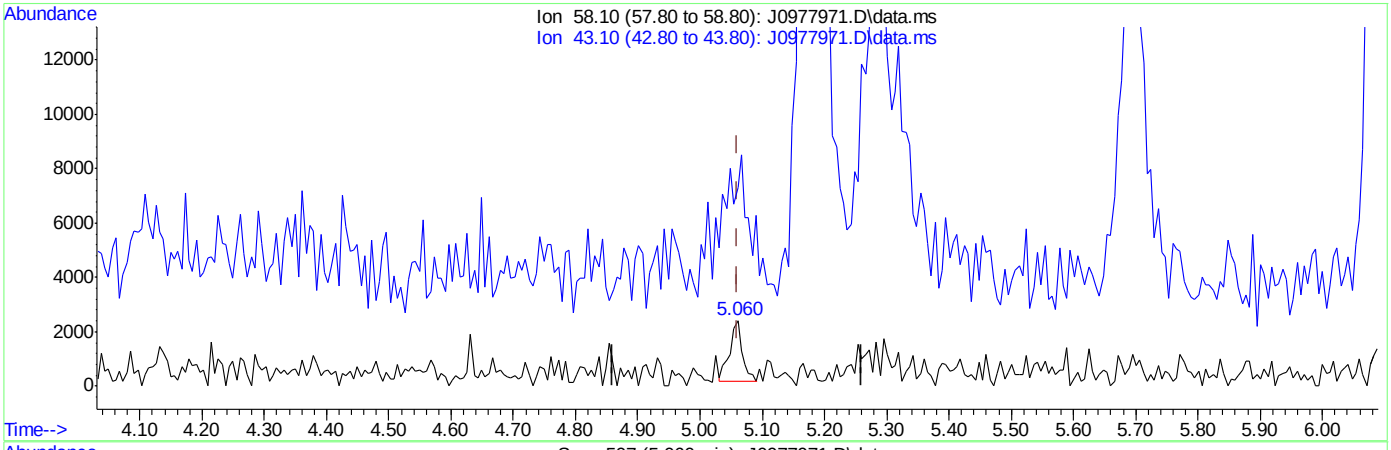
Ion	Exp%	Act%
41.10	100	100
39.10	65.80	71.56
38.10	13.40	16.30
76.00	29.60	35.41

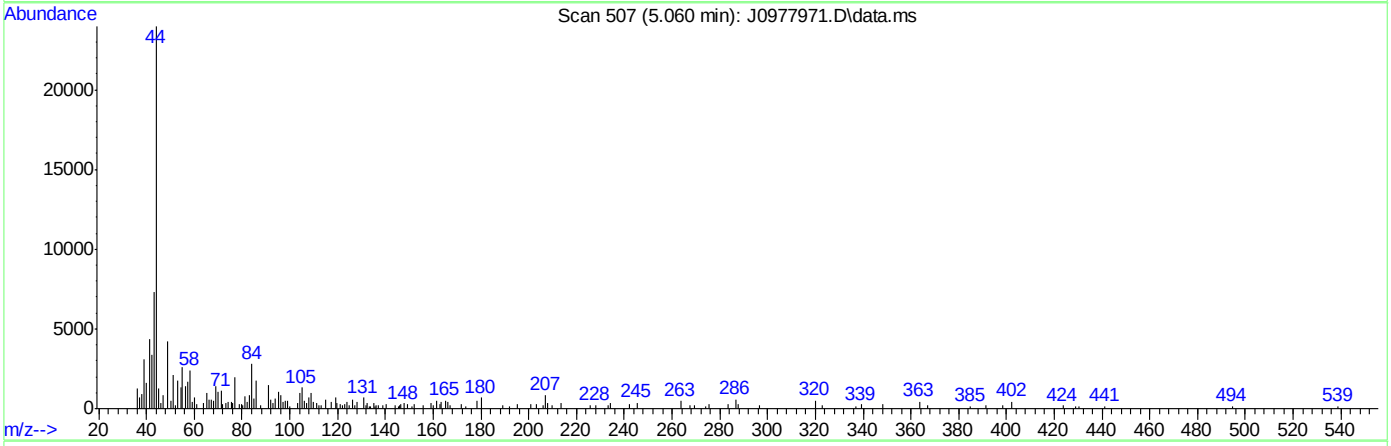
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(17) Acetone

5.060min (+0.000) 2.37ug/L

response 3098

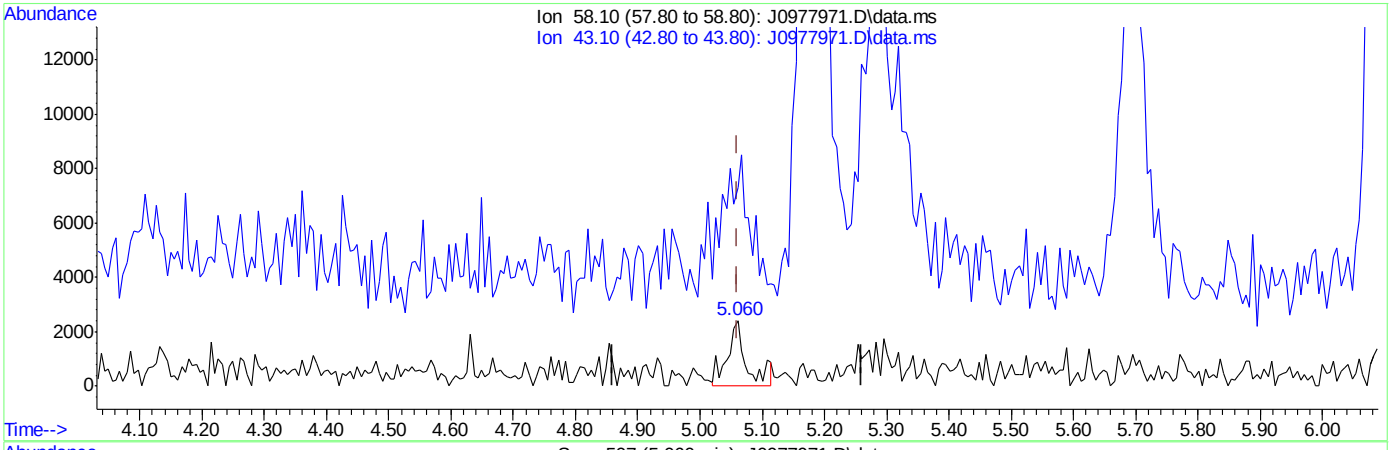
Ion	Exp%	Act%
58.10	100	100
43.10	350.90	99.78#
0.00	0.00	0.00
0.00	0.00	0.00

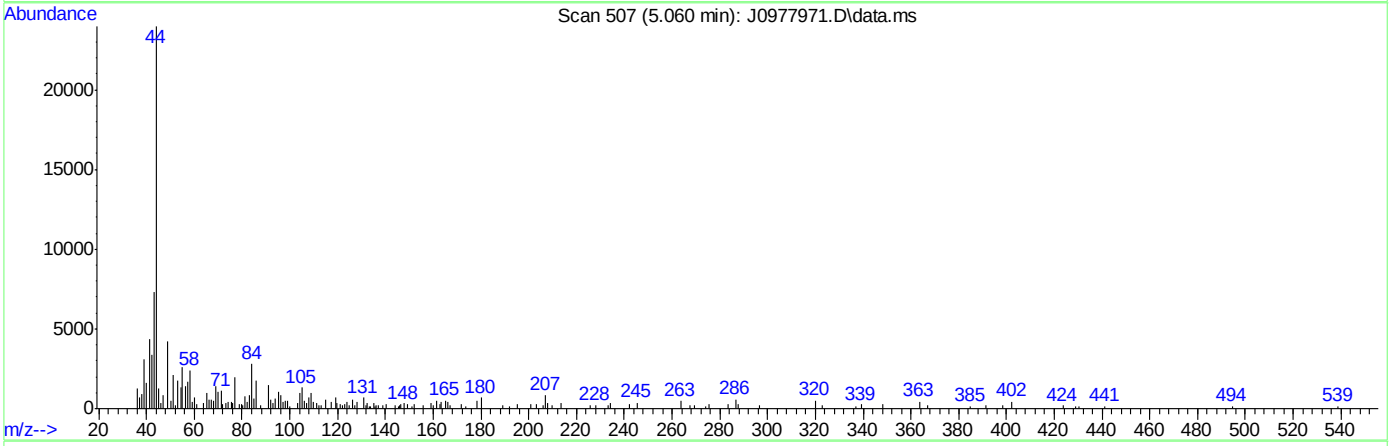
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(17) Acetone

5.060min (+0.000) 3.95ug/L m

response 5173

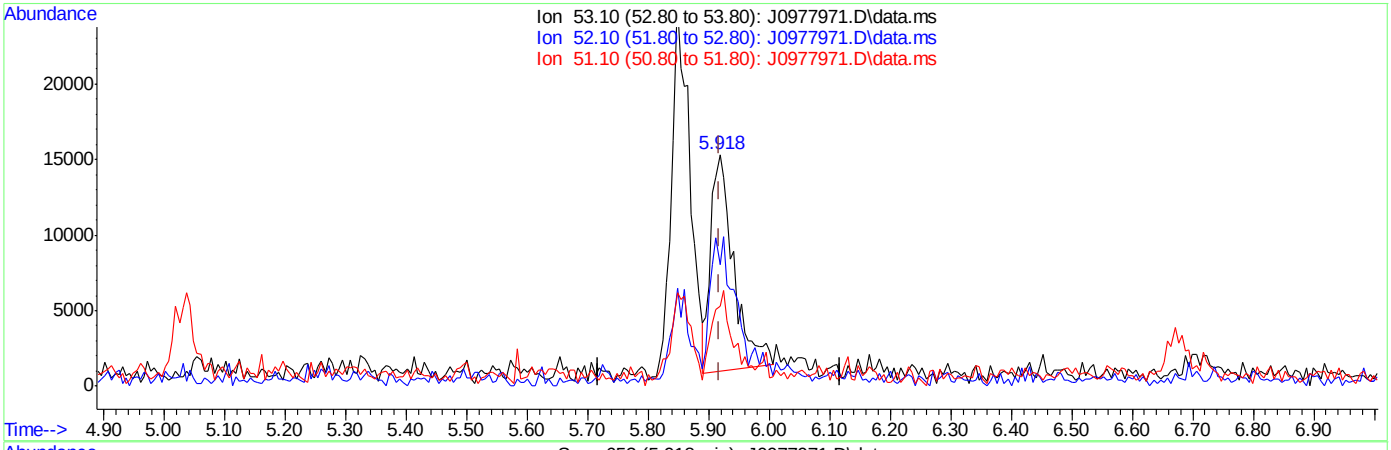
Ion	Exp%	Act%
58.10	100	100
43.10	350.90	302.48#
0.00	0.00	0.00
0.00	0.00	0.00

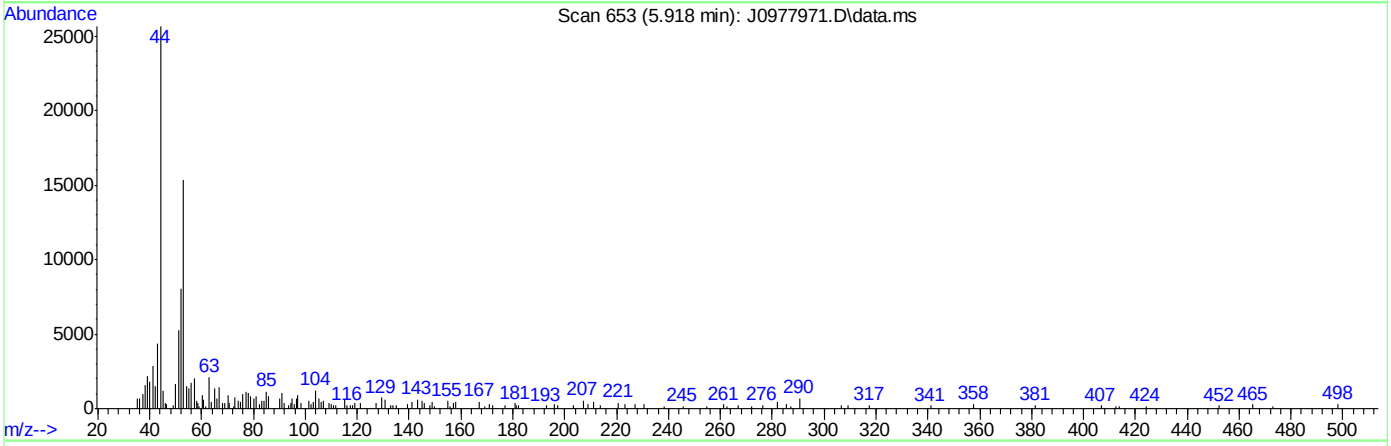
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(26) Acrylonitrile

5.918min (+0.000) 6.71ug/L

response 37756

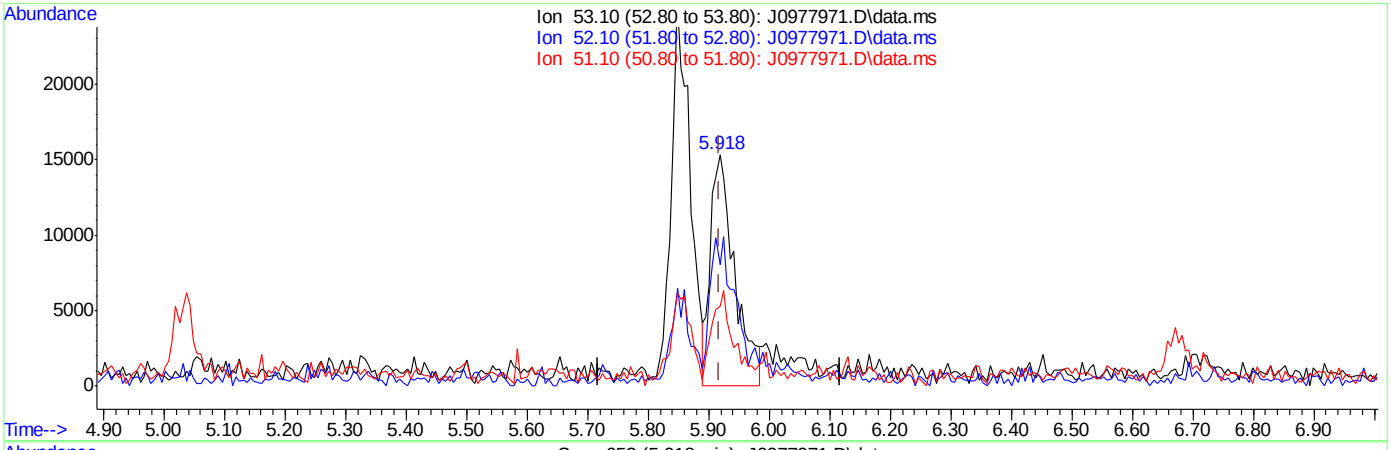
Ion	Exp%	Act%
53.10	100	100
52.10	80.30	52.90
51.10	32.40	35.31
0.00	0.00	0.00

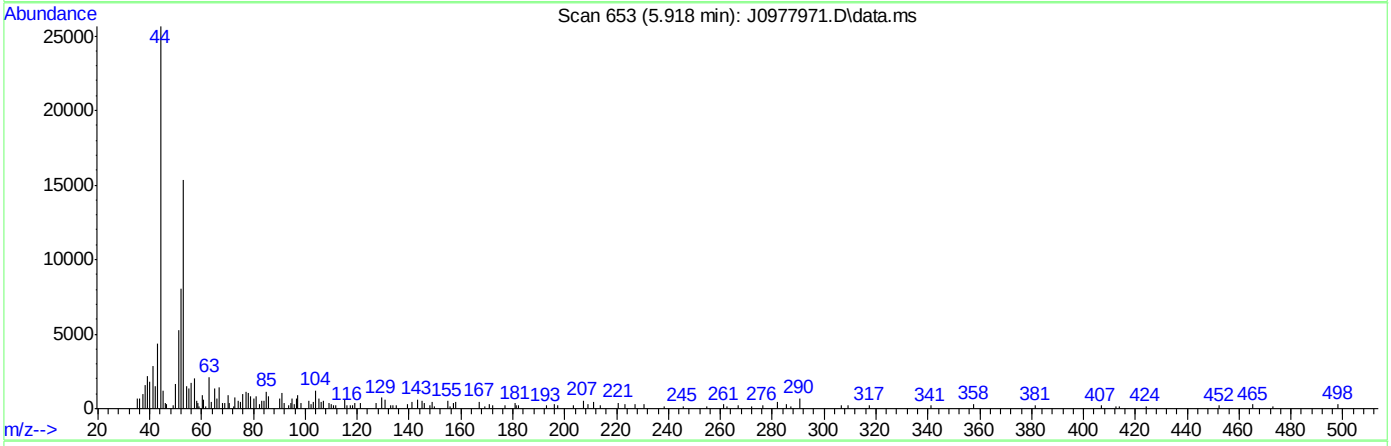
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(26) Acrylonitrile

5.918min (+0.000) 7.53ug/L m

response 42375

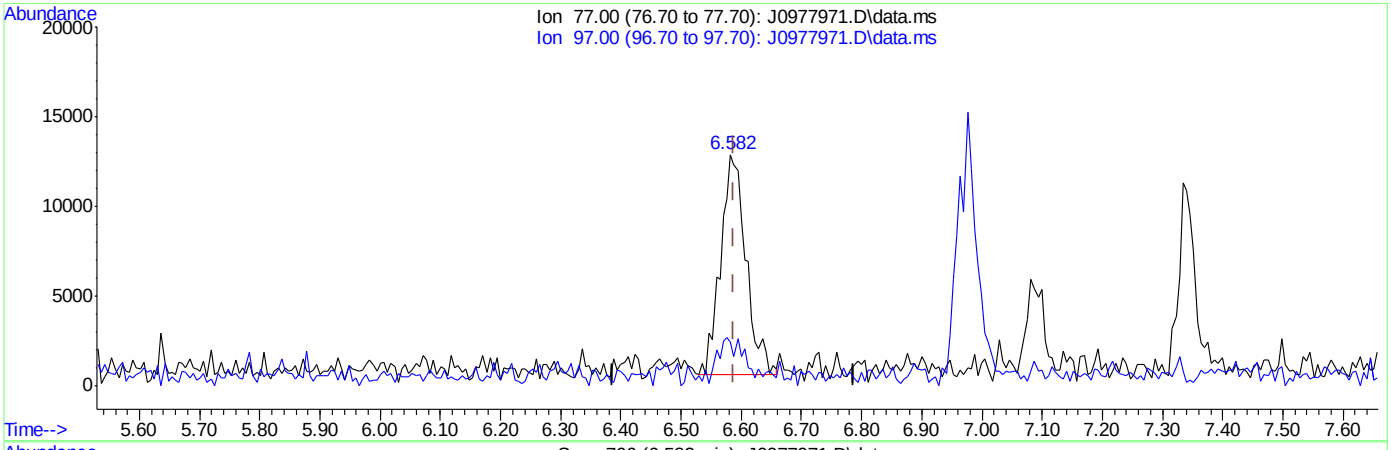
Ion	Exp%	Act%
53.10	100	100
52.10	80.30	52.60
51.10	32.40	34.54
0.00	0.00	0.00

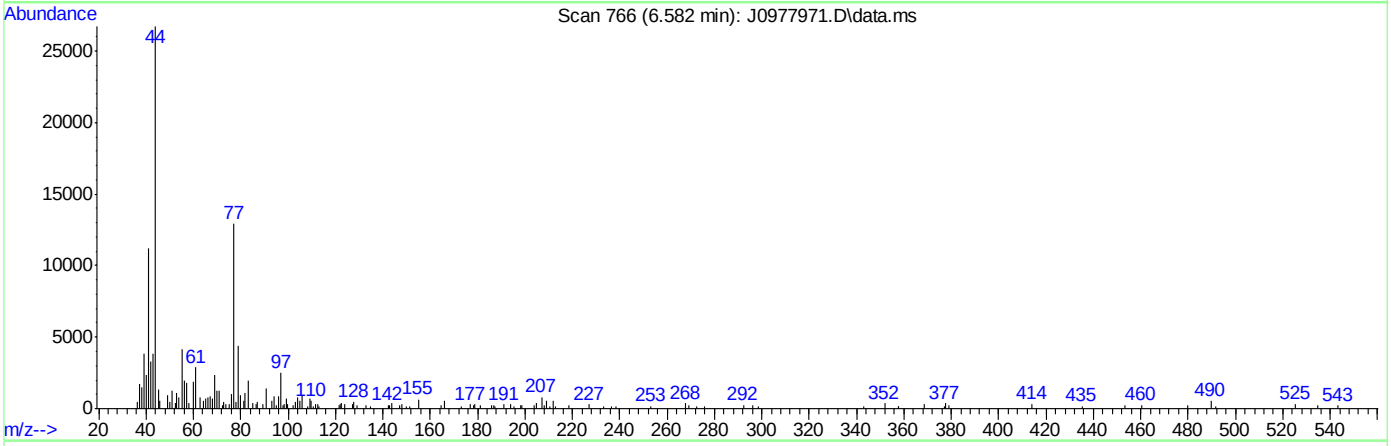
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(30) 2,2-Dichloropropane ( )

6.582min (-0.006) 1.55ug/L

response 35899

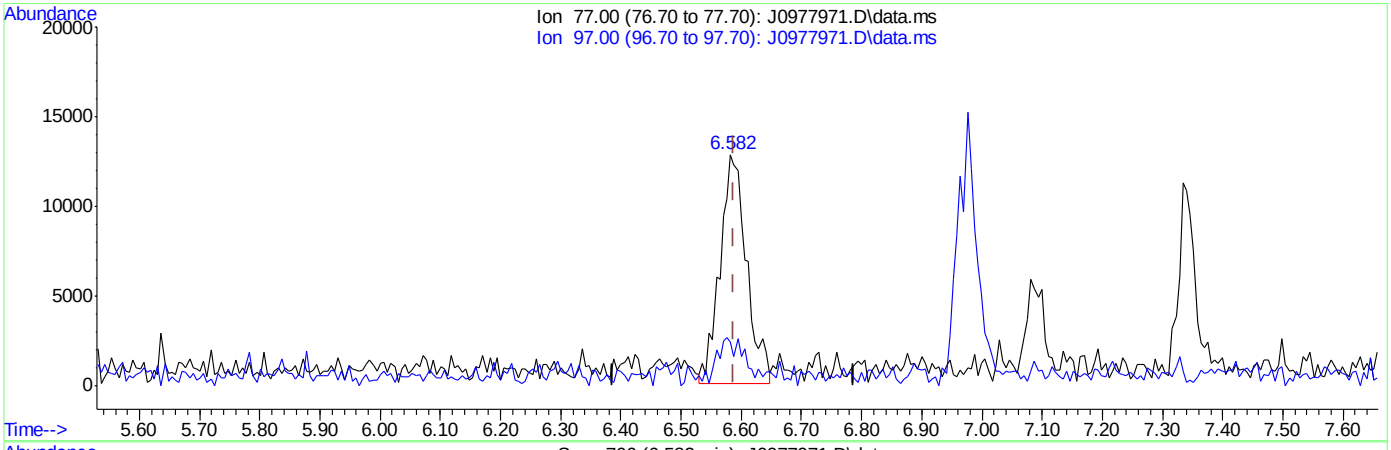
Ion	Exp%	Act%
77.00	100	100
97.00	18.30	16.41
0.00	0.00	0.00
0.00	0.00	0.00

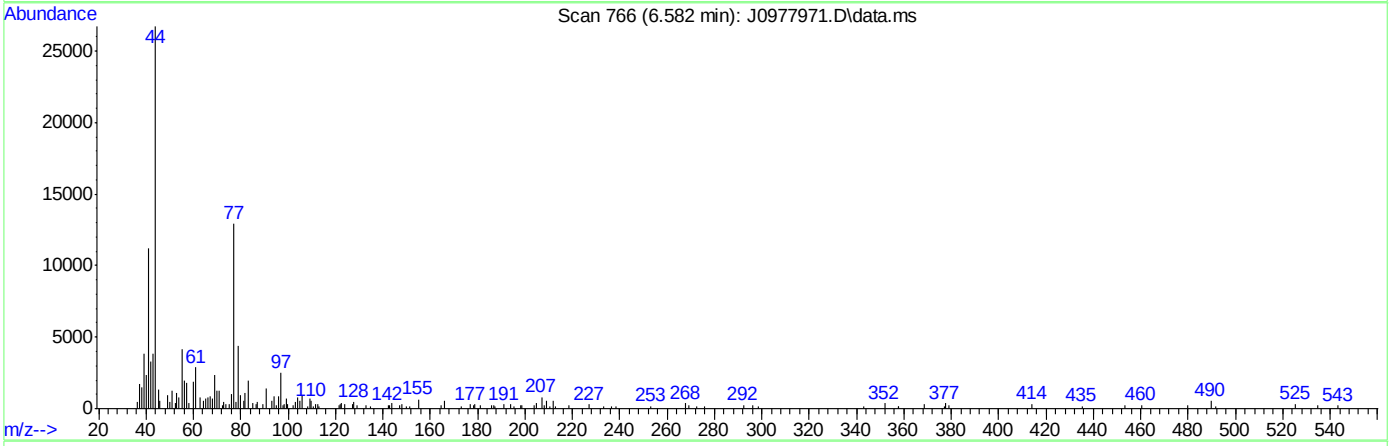
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(30) 2,2-Dichloropropane ( )

6.582min (-0.006) 1.68ug/L m

response 38768

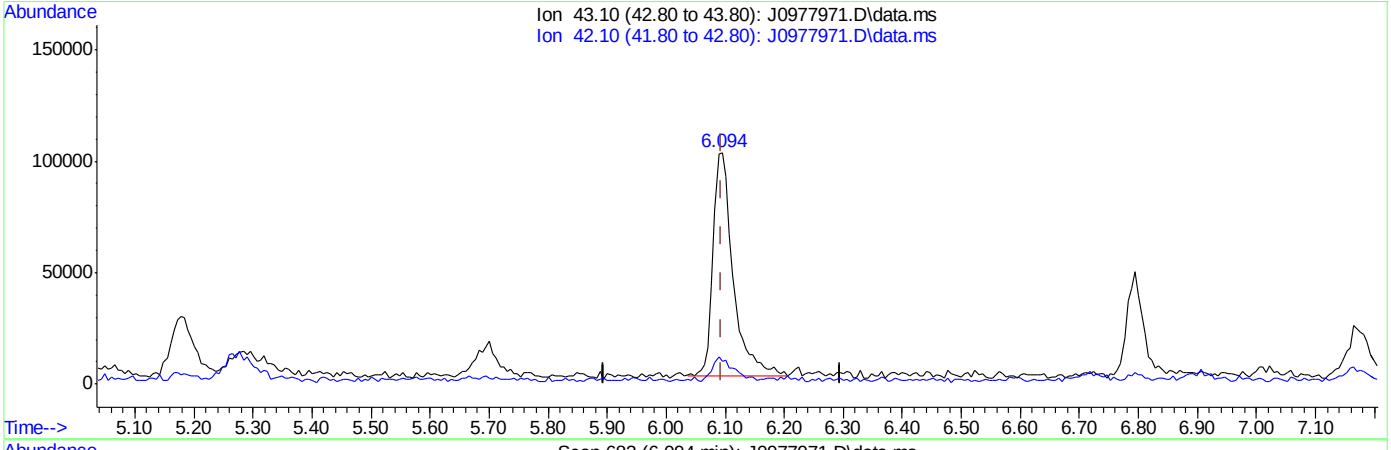
Ion	Exp%	Act%
77.00	100	100
97.00	18.30	19.27
0.00	0.00	0.00
0.00	0.00	0.00

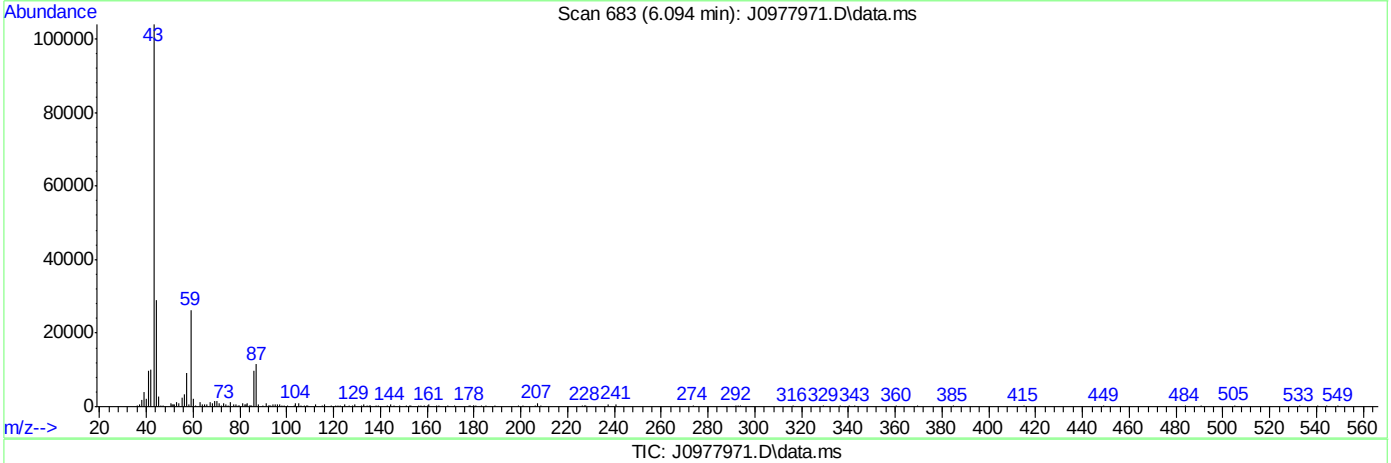
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(28) Vinyl acetate

6.094min (-0.001) 6.66ug/L

response 233185

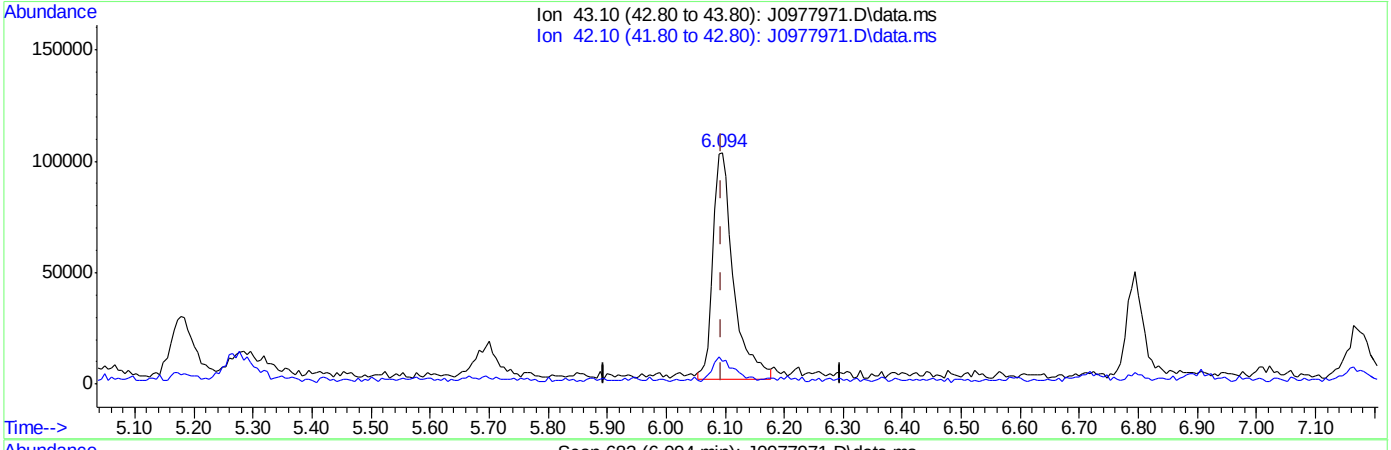
Ion	Exp%	Act%
43.10	100	100
42.10	9.50	8.09
0.00	0.00	0.00
0.00	0.00	0.00

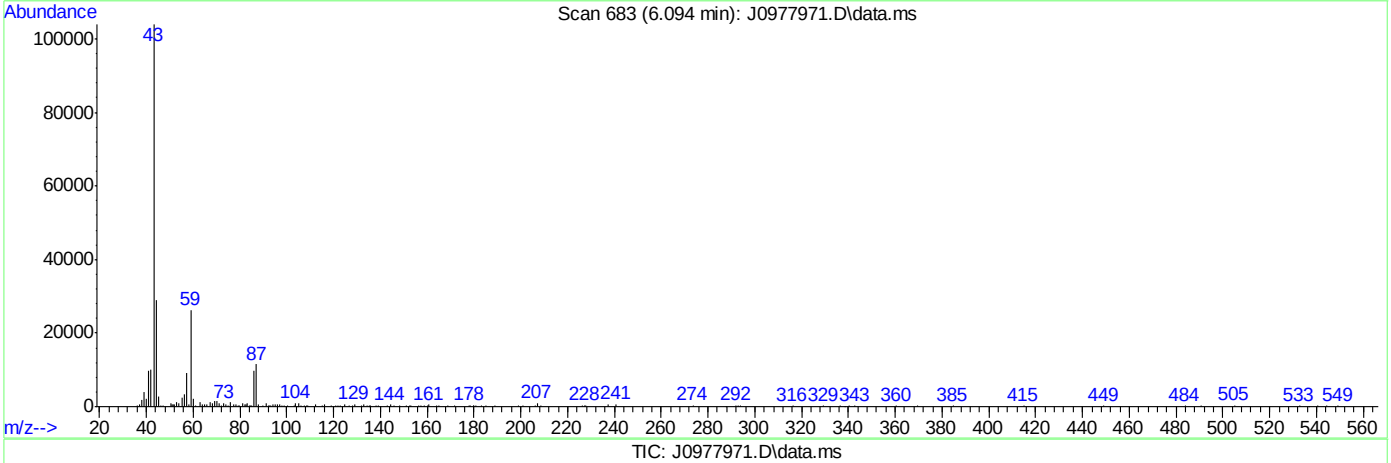
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(28) Vinyl acetate

6.094min (-0.001) 6.93ug/L m

response 242436

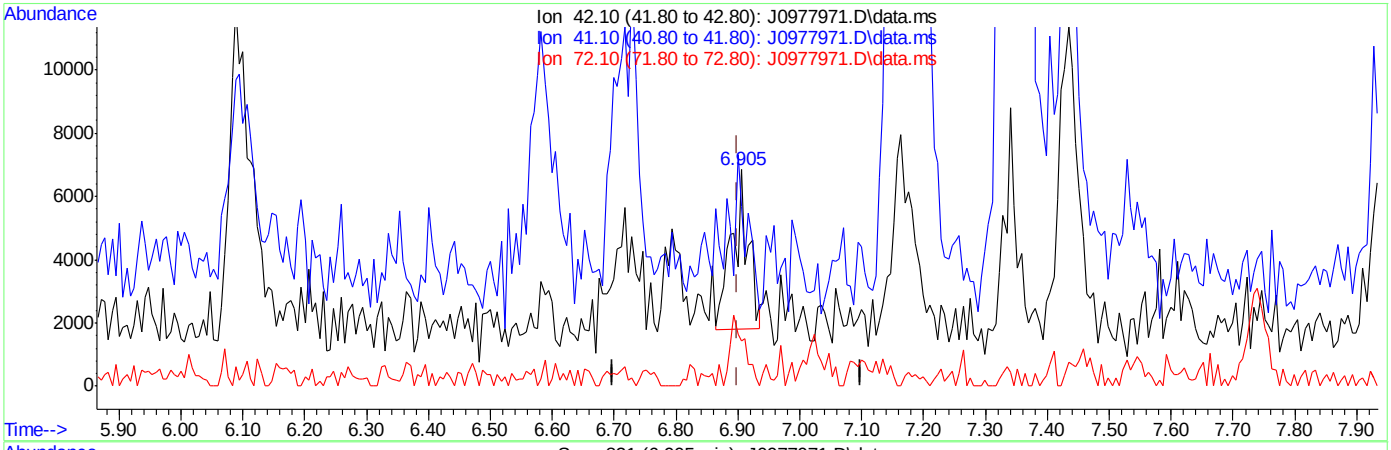
Ion	Exp%	Act%
43.10	100	100
42.10	9.50	9.80
0.00	0.00	0.00
0.00	0.00	0.00

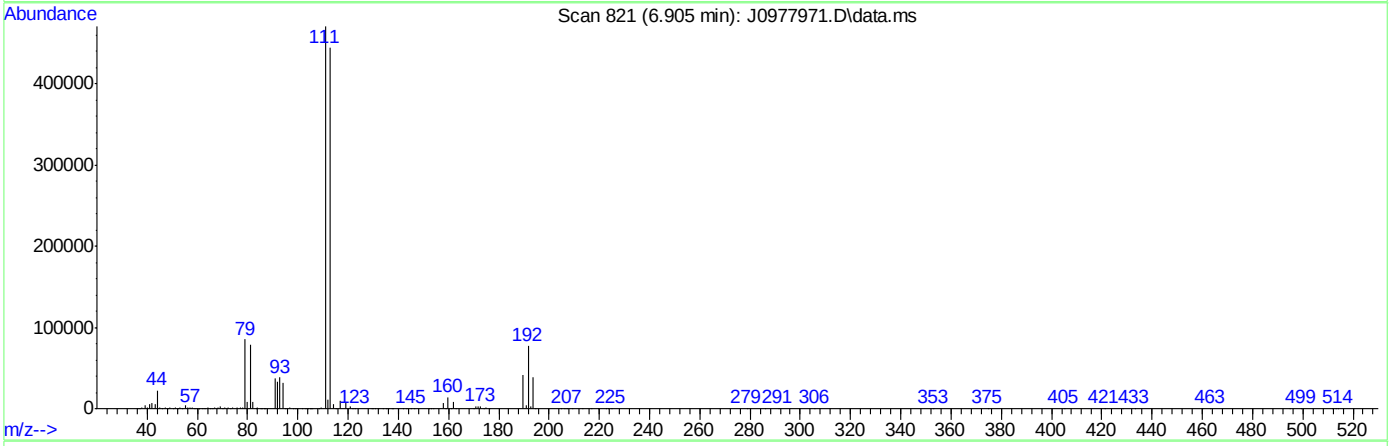
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(35) Tetrahydrofuran

6.905min (+0.006) 2.00ug/L

response 9172

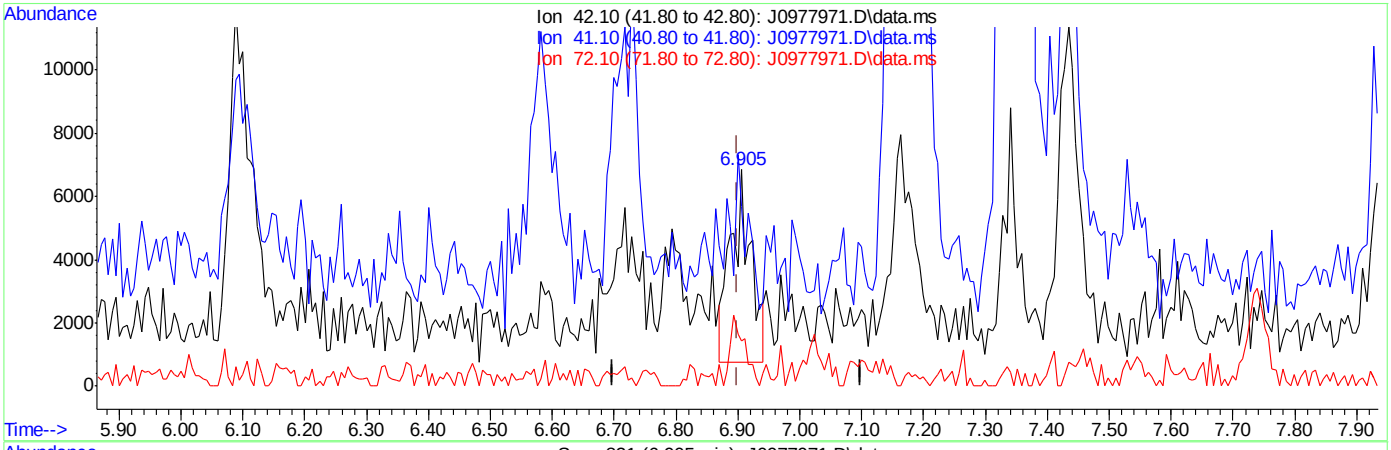
Ion	Exp%	Act%
42.10	100	100
41.10	48.20	65.83
72.10	34.60	29.12
0.00	0.00	0.00

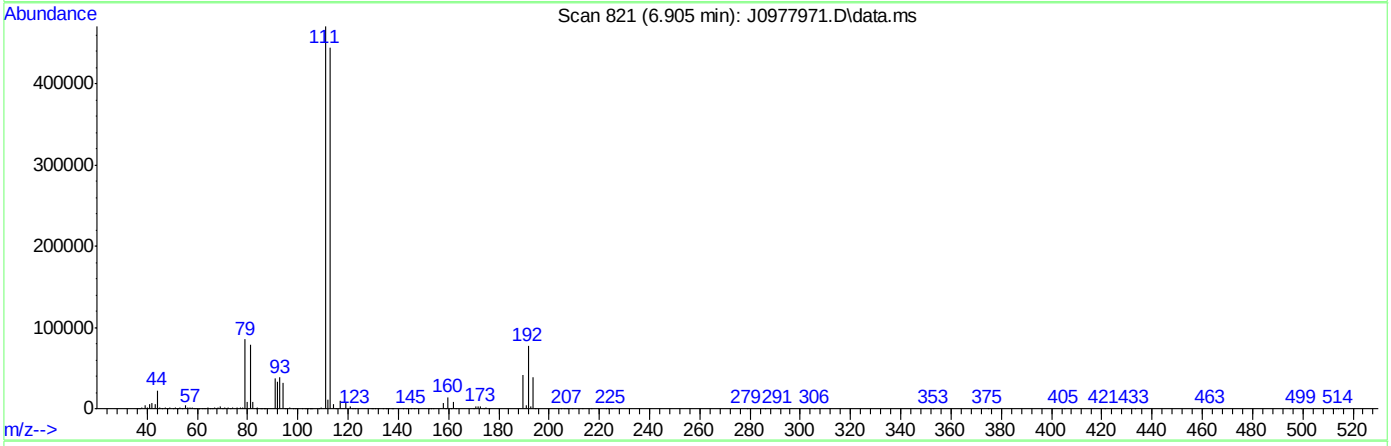
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(35) Tetrahydrofuran

6.905min (+0.006) 2.97ug/L m

response 13640

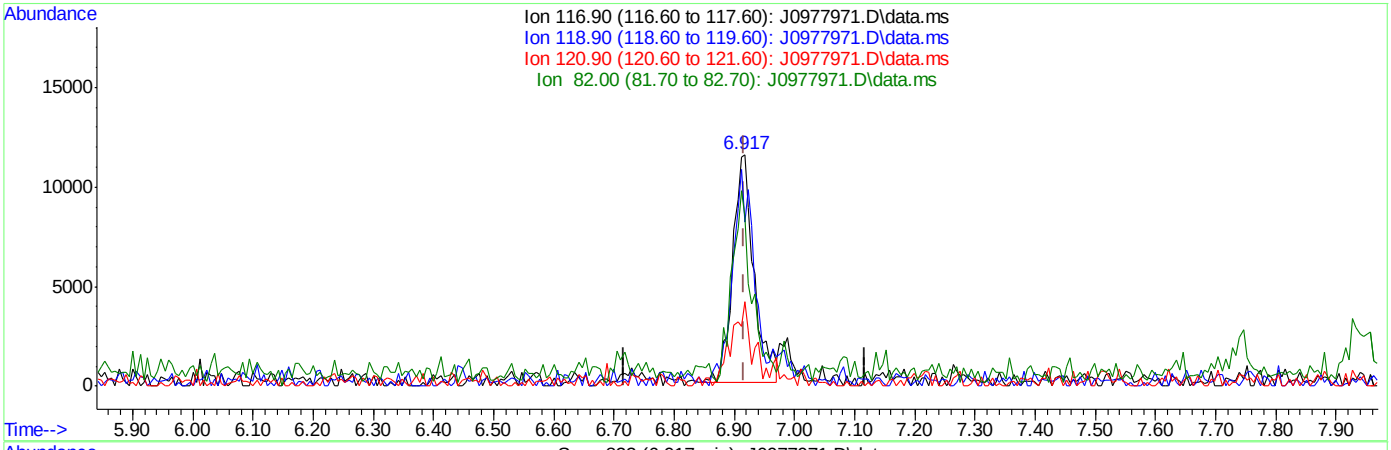
Ion	Exp%	Act%
42.10	100	100
41.10	48.20	83.09#
72.10	34.60	21.07
0.00	0.00	0.00

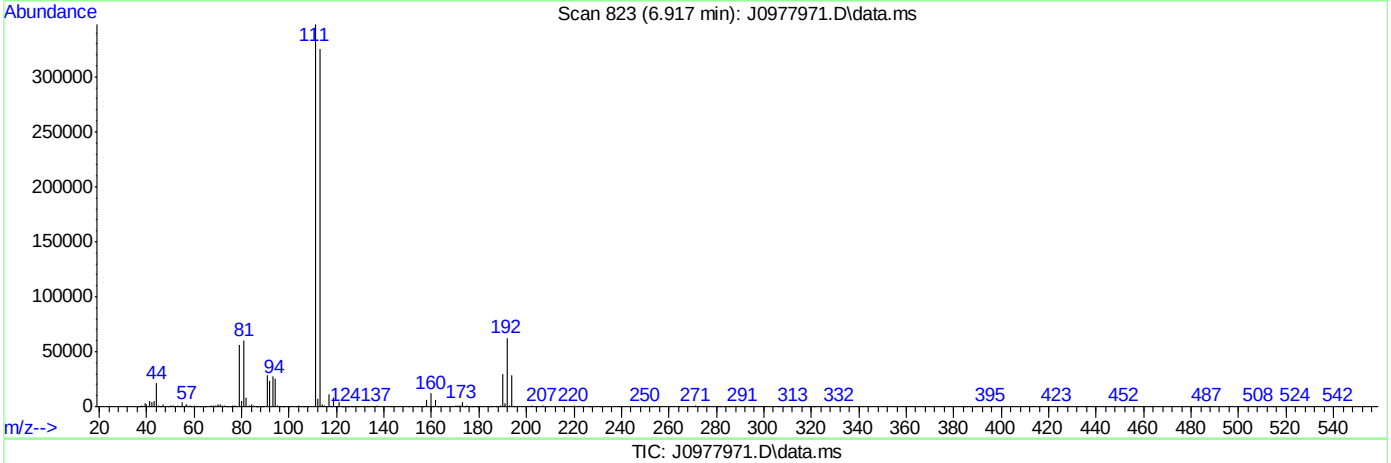
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 1.24ug/L

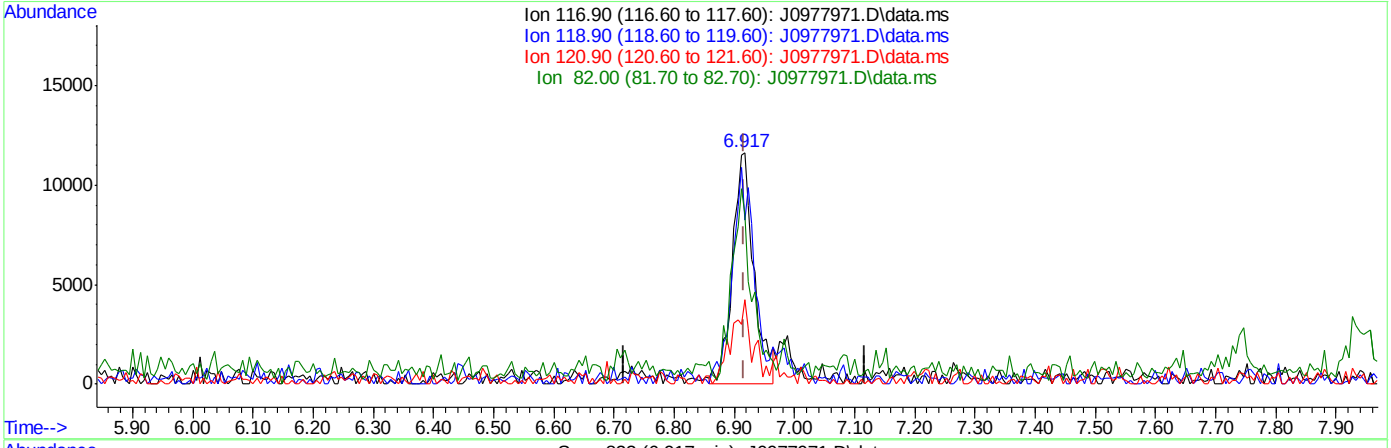
response 28153

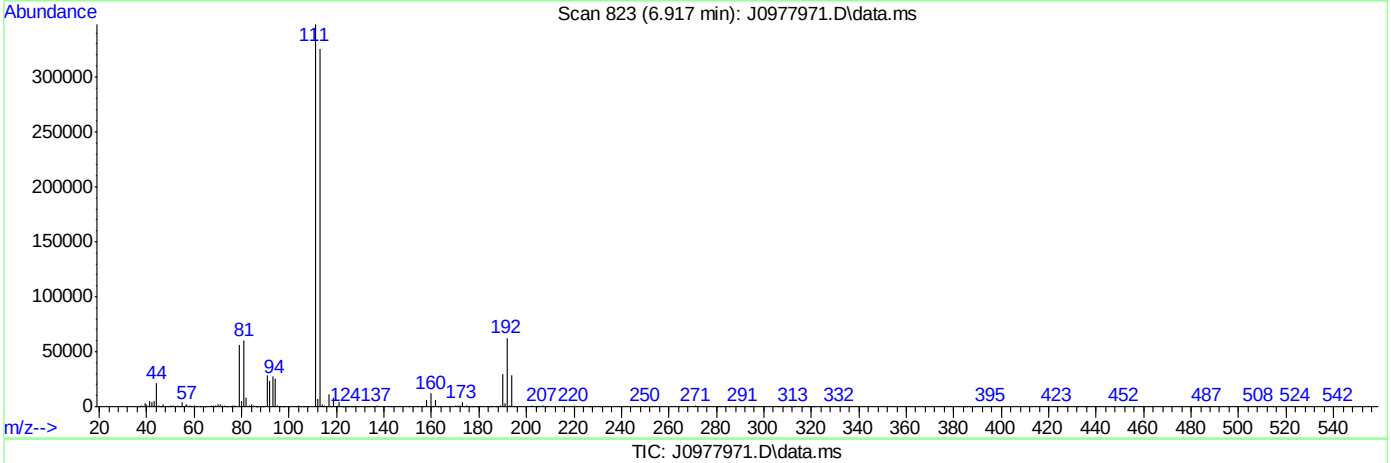
Ion	Exp%	Act%
116.90	100	100
118.90	99.70	67.96#
120.90	25.70	32.61
82.00	26.30	68.31#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 1.27ug/L m

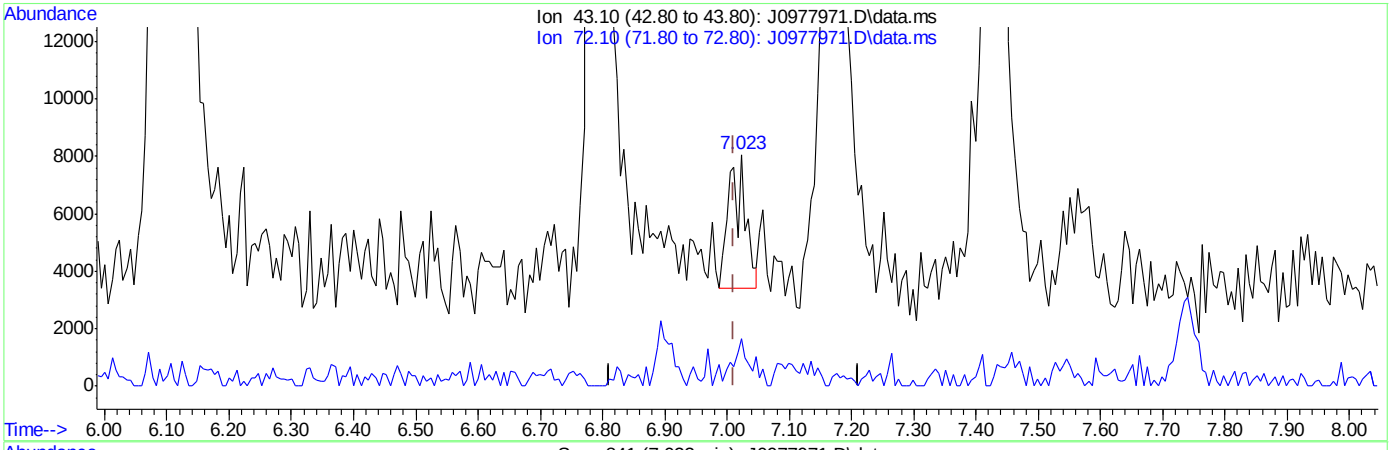
response 28936

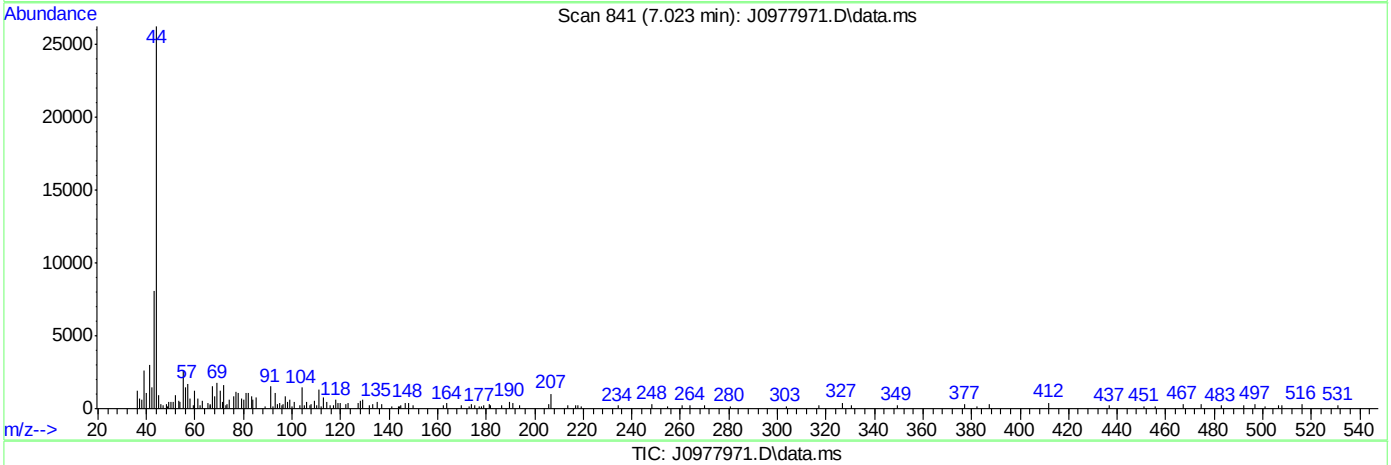
Ion	Exp%	Act%
116.90	100	100
118.90	99.70	70.92
120.90	25.70	36.30
82.00	26.30	73.29#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(39) 2-Butanone

7.023min (+0.012) 1.36ug/L

response 8532

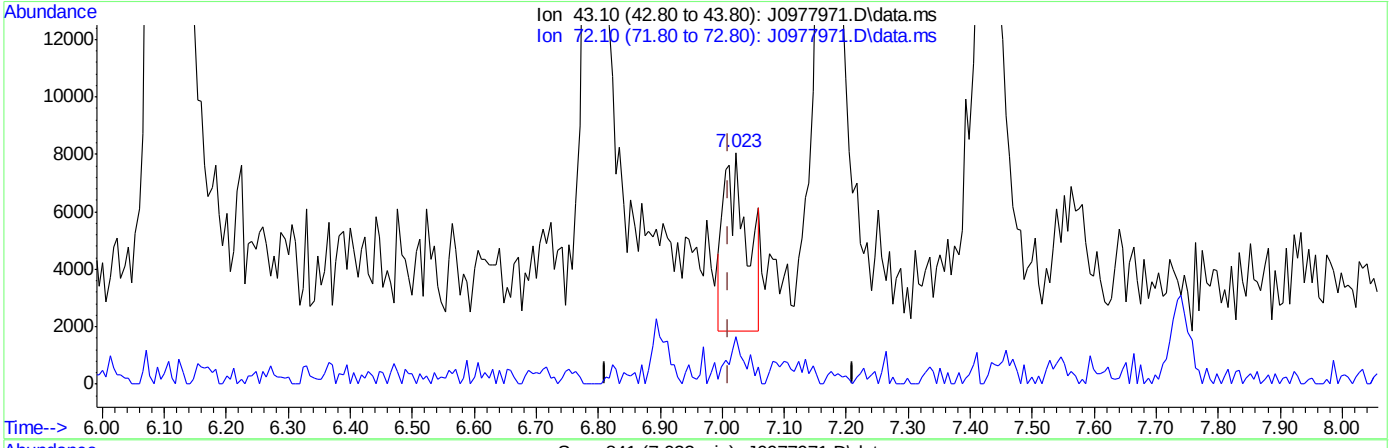
Ion	Exp%	Act%
43.10	100	100
72.10	22.50	19.22
0.00	0.00	0.00
0.00	0.00	0.00

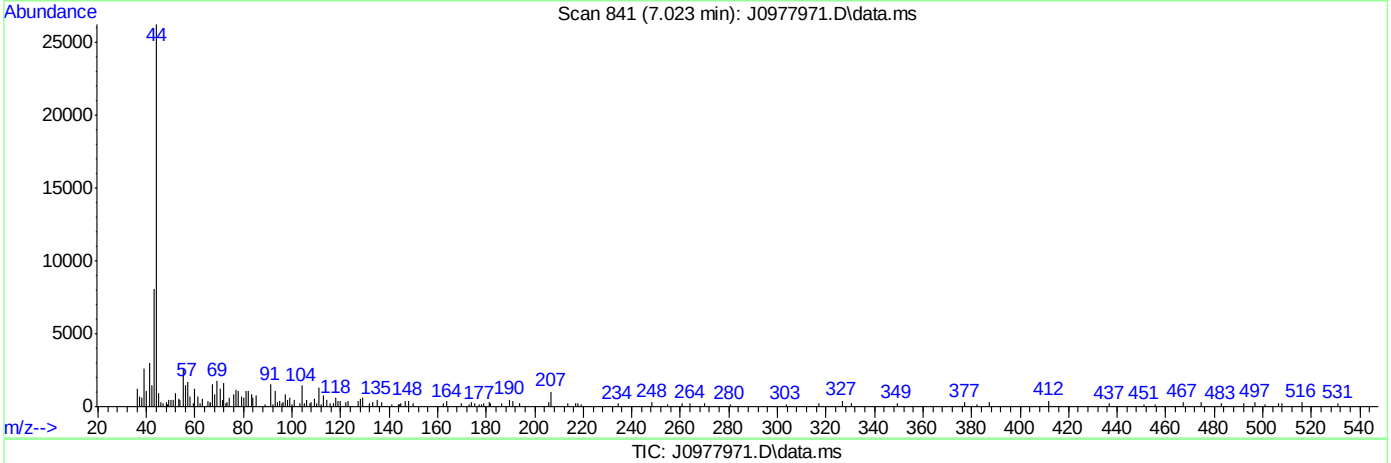
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(39) 2-Butanone

7.023min (+0.012) 2.51ug/L m

response 15744

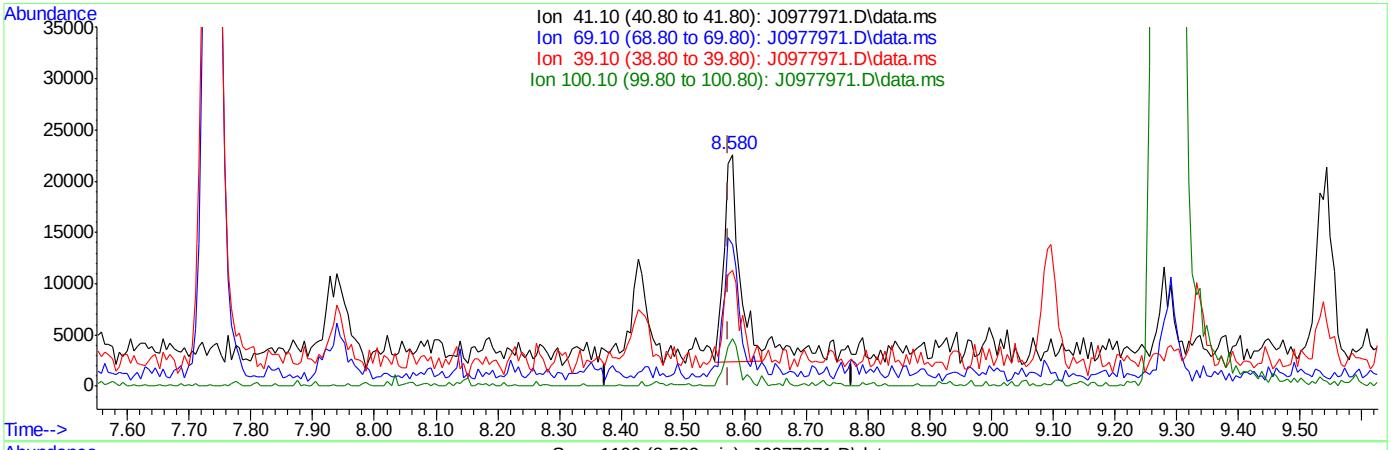
Ion	Exp%	Act%
43.10	100	100
72.10	22.50	20.42
0.00	0.00	0.00
0.00	0.00	0.00

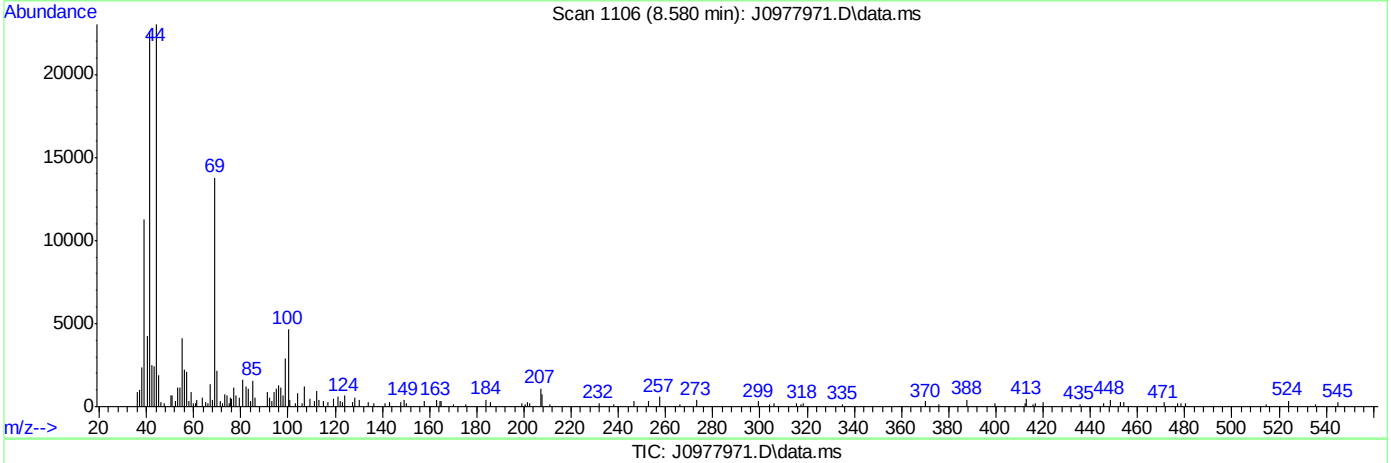
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(53) Methyl methacrylate

8.580min (+0.006) 2.63ug/L

response 35140

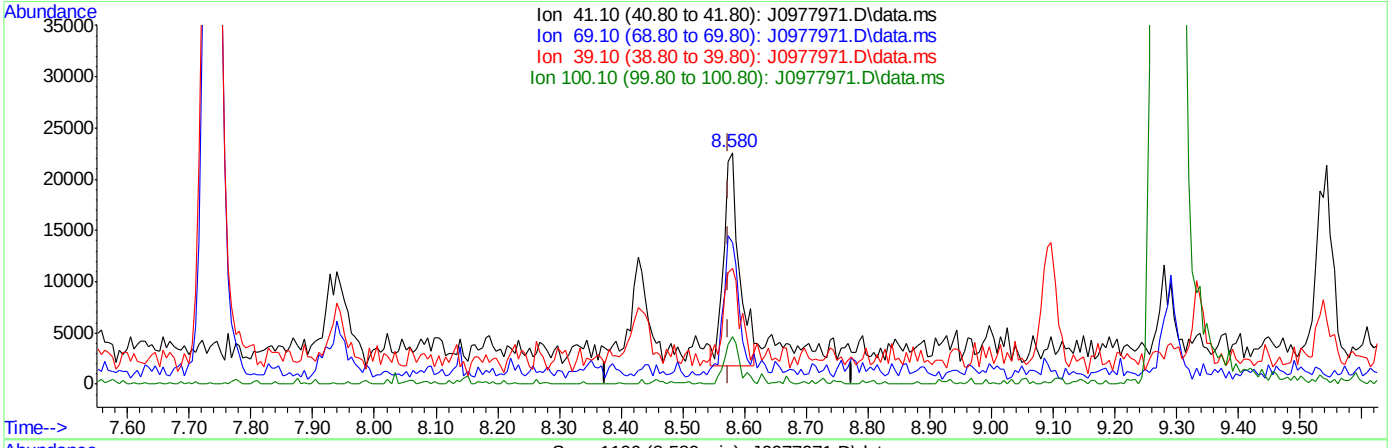
Ion	Exp%	Act%
41.10	100	100
69.10	69.50	58.29
39.10	53.00	44.42
100.10	19.20	23.16

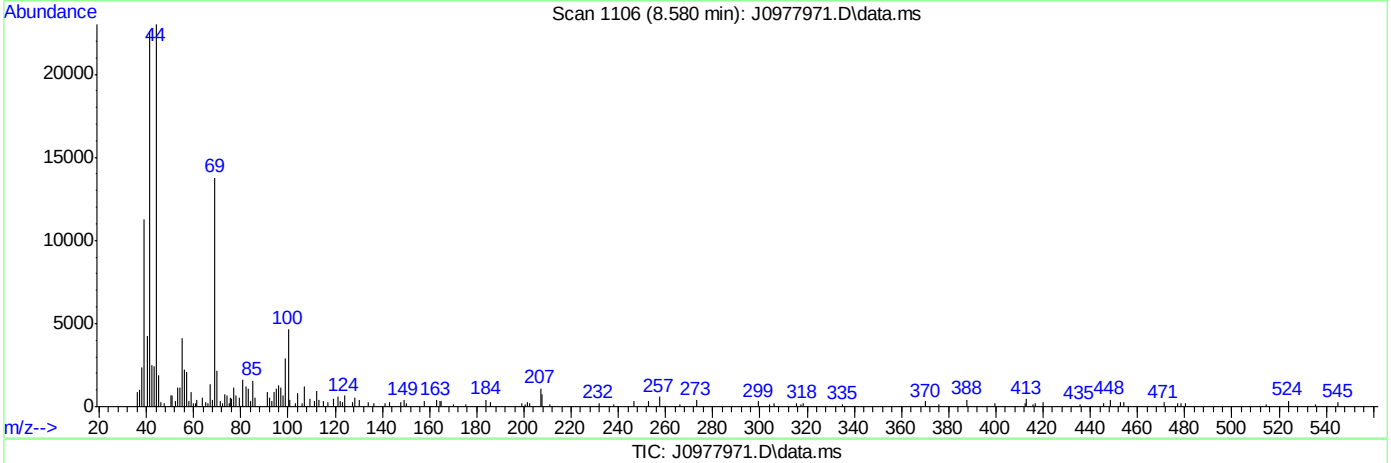
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(53) Methyl methacrylate

8.580min (+0.006) 2.73ug/L m

response 36499

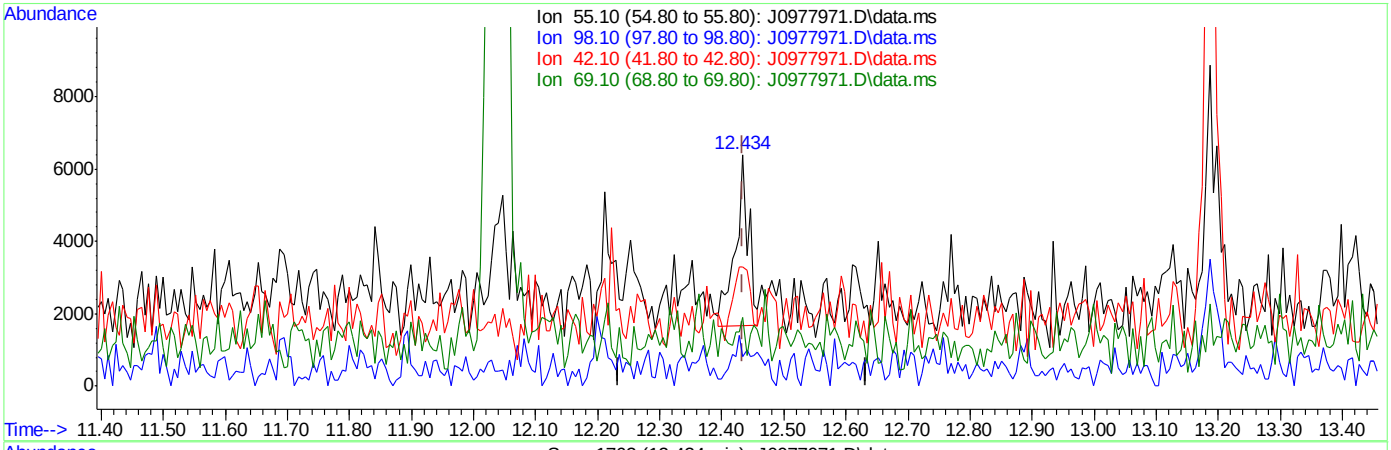
Ion	Exp%	Act%
41.10	100	100
69.10	69.50	60.91
39.10	53.00	49.90
100.10	19.20	20.63

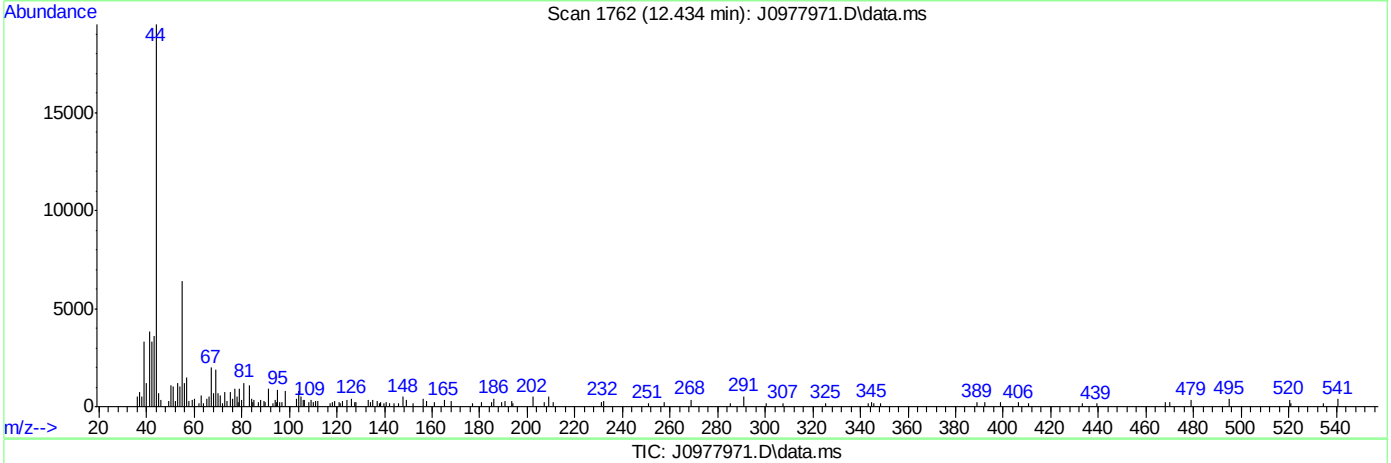
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(88) Cyclohexanone

12.434min (+0.000) 14.22ug/L

response 7055

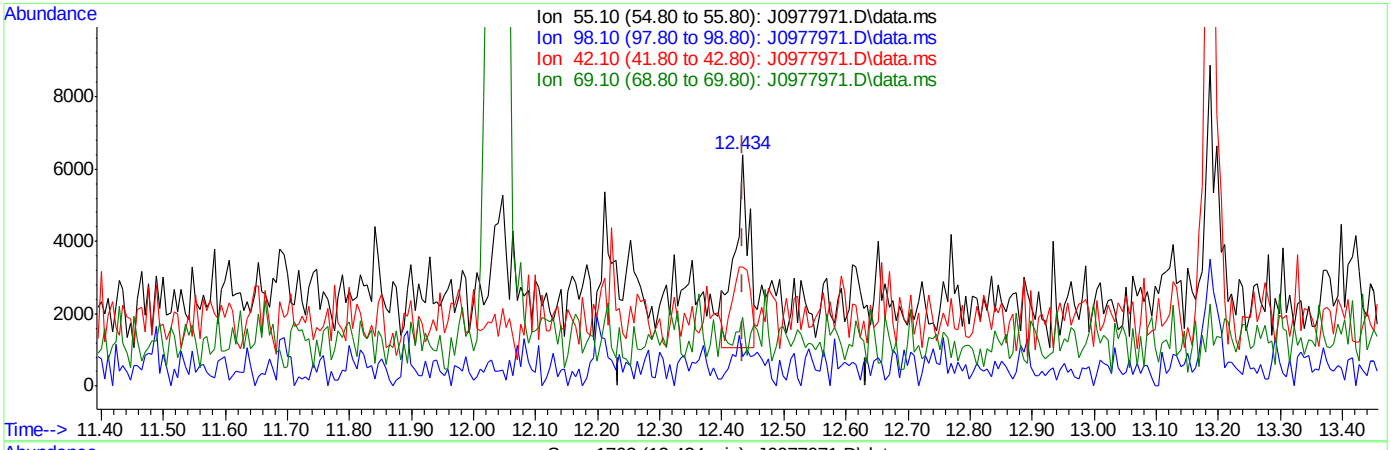
Ion	Exp%	Act%
55.10	100	100
98.10	28.30	13.89
42.10	50.80	36.88
69.10	20.60	24.20

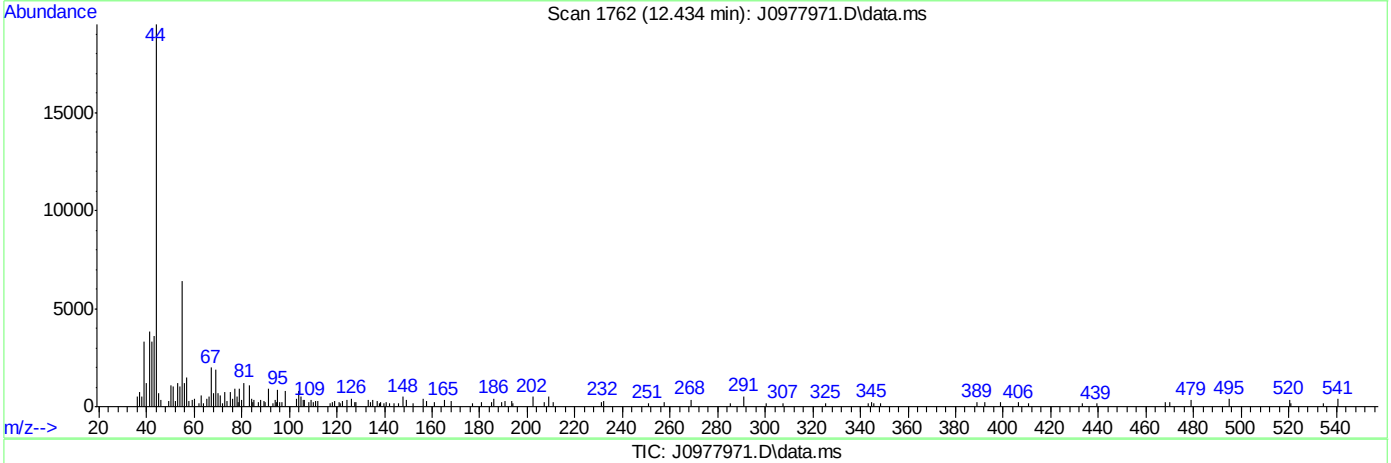
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(88) Cyclohexanone

12.434min (+0.000) 17.21ug/L m

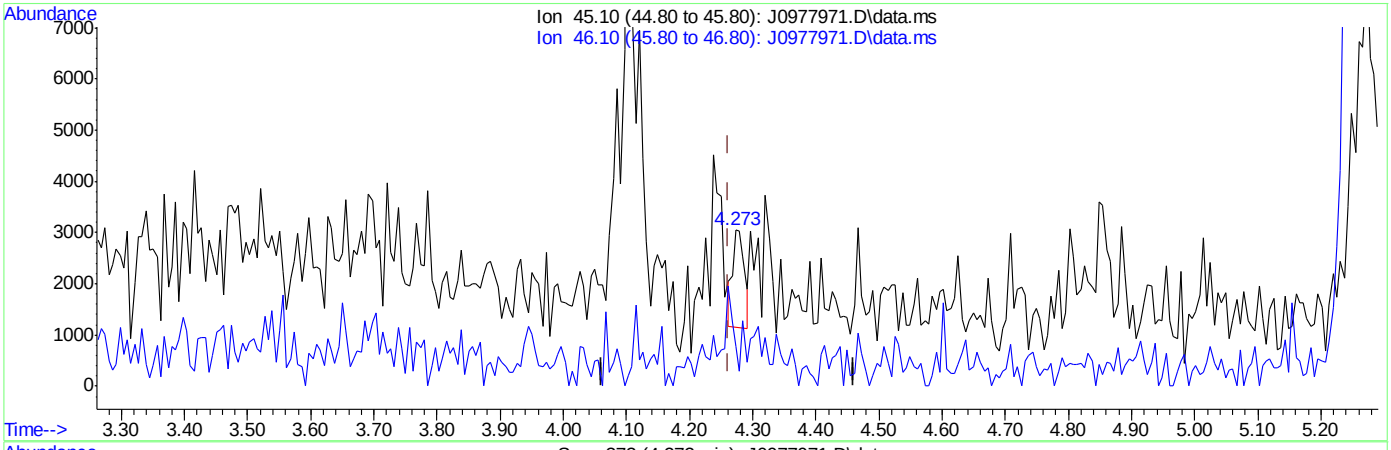
response 8539

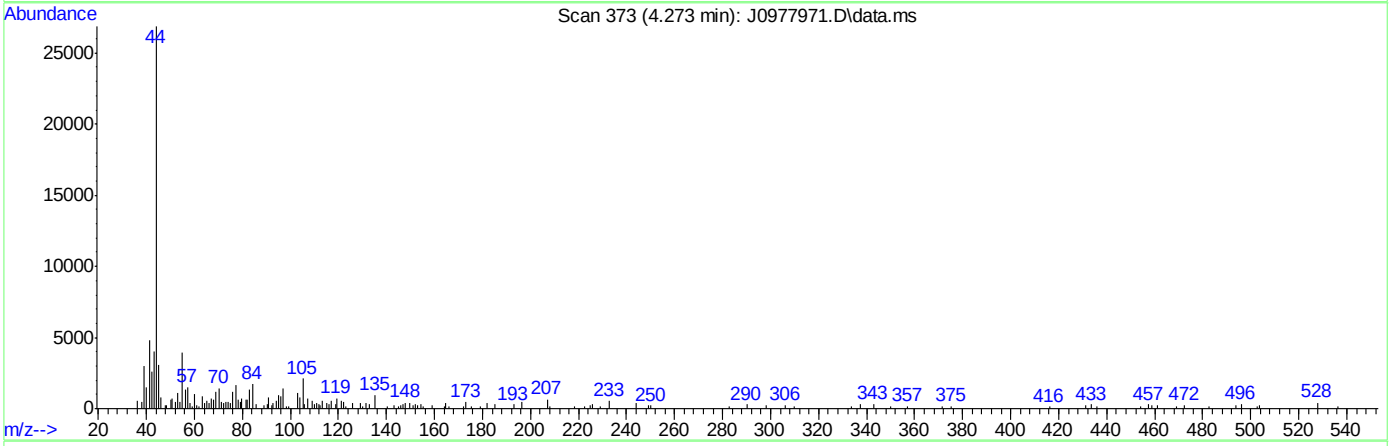
Ion	Exp%	Act%
55.10	100	100
98.10	28.30	12.76
42.10	50.80	51.42
69.10	20.60	29.82

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977971.D\data.ms

(107) Ethanol

4.273min (+0.012) 10.83ug/L

response 2435

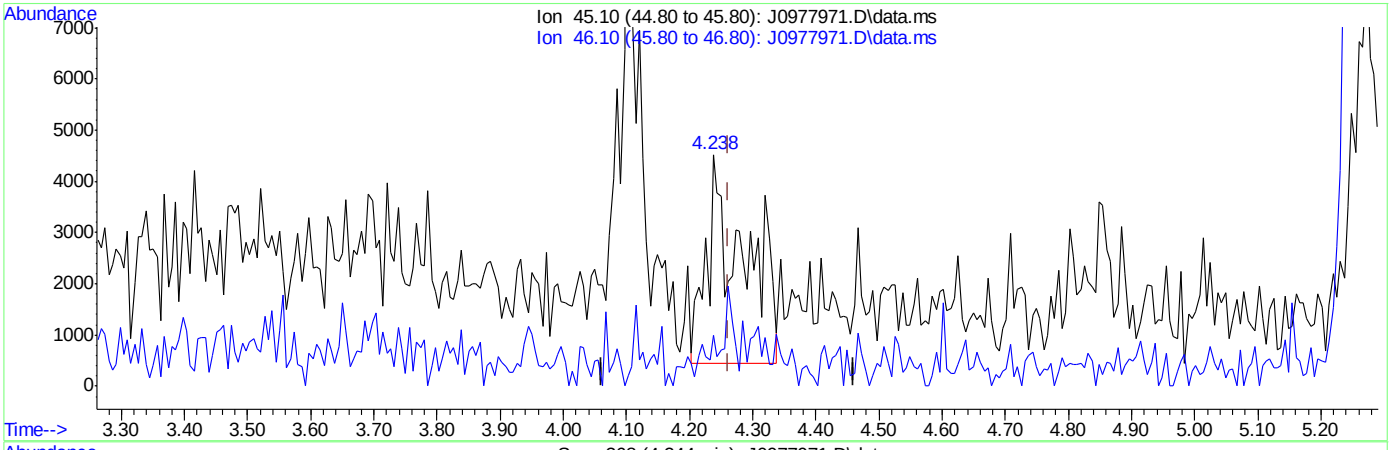
Ion	Exp%	Act%
45.10	100	100
46.10	41.80	27.02
0.00	0.00	0.00
0.00	0.00	0.00

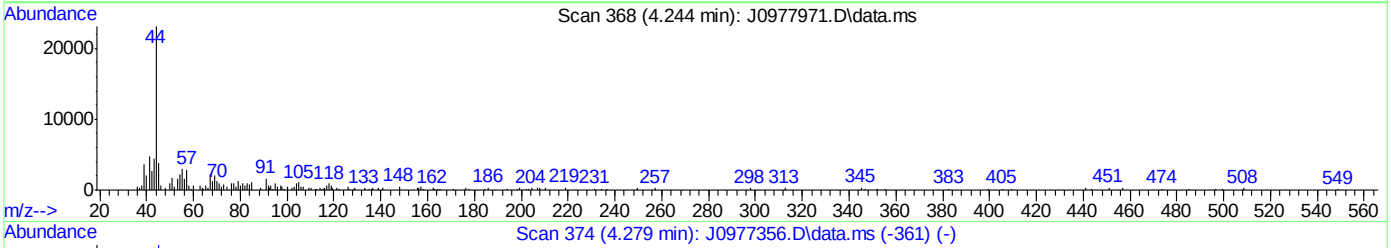
SGS ACCUTEST FA35362

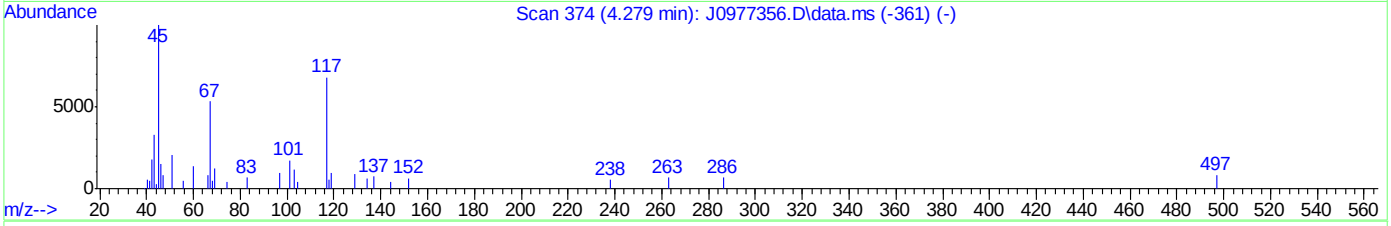
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977971.D
Acq On : 12 Jul 2016 9:01 am
Operator : darshnap
Sample : ic5368-1 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 09:54:36 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration







TIC: J0977971.D\data.ms

(107) Ethanol

4.238min (-0.023) 73.61ug/L m

response 16549

Ion	Exp%	Act%
45.10	100	100
46.10	41.80	21.76#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/13/16 14:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
Acq On : 12 Jul 2016 9:24 am
Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 10:01:47 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	3232214	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	2266455	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	1238006	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	342793	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	852322	51.45	ug/L	-0.01
Spiked Amount 50.000	Range 83 - 118		Recovery = 102.90%			
46) 1,2-Dichloroethane-d4	7.458	65	1157051	54.72	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 109.44%			
57) Toluene-d8	9.279	98	3022965	50.20	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.40%			
79) 4-Bromofluorobenzene	12.041	95	1319702	66.73	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 133.46%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	117985	6.38	ug/L	93
3) Chloromethane	2.869	50	138716	5.40	ug/L	100
4) Vinyl Chloride	3.010	62	107268	4.99	ug/L	95
5) 1,3-Butadiene	2.998	54	88711	5.05	ug/L	90
6) Bromomethane	3.433	94	71079	3.70	ug/L	92
7) Chloroethane	3.586	64	57143	3.65	ug/L	87
8) Trichlorofluoromethane	3.791	101	118049m	3.48	ug/L	
9) Ethyl Ether	4.097	59	99776	6.63	ug/L	97
10) 1,2-Dichlorotrifluoroe...	4.326	67	128519	6.57	ug/L	91
11) 1,1-Dichloroethene	4.373	61	181822	6.78	ug/L	96
12) Freon 113	4.438	101	108290	6.50	ug/L	92
13) Carbon Disulfide	4.449	76	394292	7.43	ug/L	95
14) Iodomethane	4.567	142	170485	5.88	ug/L	95
15) Allyl chloride	4.908	41	169271	6.65	ug/L	97
16) Methylene Chloride	5.019	49	180581	5.40	ug/L	93
17) Acetone	5.049	58	41575	32.72	ug/L #	82
18) Methyl acetate	5.172	74	79001	36.41	ug/L #	89
19) trans-1,2-Dichloroethene	5.207	61	166099	6.89	ug/L	96
20) Hexane	5.272	56	112312	6.64	ug/L	92
21) Methyl Tert Butyl Ether	5.319	73	358365	8.02	ug/L	84
22) Acetonitrile	5.572	40	53627	60.27	ug/L	91
23) Di-isopropyl ether	5.689	45	443048	6.58	ug/L	95
24) Chloroprene	5.848	53	160042	5.37	ug/L	96
25) 1,1-Dichloroethane	5.877	63	210630	6.68	ug/L	94
26) Acrylonitrile	5.907	53	167086	30.56	ug/L	87
27) ETBE	6.089	59	420359	7.30	ug/L	96
28) Vinyl acetate	6.089	43	1101838	32.42	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	130270	6.59	ug/L	93
30) 2,2-Dichloropropane	6.582	77	190609	8.50	ug/L	92
31) Bromochloromethane	6.665	128	56115	6.44	ug/L	88
32) Cyclohexane	6.706	56	223338	7.00	ug/L	88
33) Chloroform	6.717	83	212272	6.23	ug/L	93
34) Ethyl acetate	6.788	43	405690	30.94	ug/L	98

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

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Data File : J0977972.D
Acq On : 12 Jul 2016 9:24 am
Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 10:01:47 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	36068m	8.10 ug/L	
37) Carbon Tetrachloride	6.911	117	162564m	7.37 ug/L	
38) 1,1,1-Trichloroethane	6.976	97	192907	6.87 ug/L	94
39) 2-Butanone	7.005	43	202322	33.21 ug/L	99
40) 1,1-Dichloropropene	7.088	75	152589	6.64 ug/L	98
41) tert-Butyl Formate	7.170	59	1100208	124.53 ug/L #	60
42) Propionitrile	7.311	54	109320	55.43 ug/L	95
43) Methacrylonitrile	7.340	41	543678	58.20 ug/L	96
44) Benzene	7.334	78	442015	6.55 ug/L	92
45) TAME	7.417	73	352333	7.40 ug/L	93
47) 1,2-Dichloroethane	7.528	62	167302	6.58 ug/L	98
48) Trichloroethene	7.916	95	112075	6.50 ug/L	94
49) Methylcyclohexane	7.940	83	206917	7.13 ug/L	98
50) Dibromomethane	8.339	93	69292	6.63 ug/L	91
51) 1,2-Dichloropropane	8.433	63	121246	6.68 ug/L	92
52) Bromodichloromethane	8.474	83	156619	6.84 ug/L	97
53) Methyl methacrylate	8.574	41	87677	6.76 ug/L	97
54) 2-Chloroethyl vinyl ether	8.991	63	250465	26.26 ug/L	96
55) cis-1,3-Dichloropropene	9.091	75	186657	7.29 ug/L	90
58) Toluene	9.332	91	460568	6.56 ug/L	97
59) 2-Nitropropane	9.538	41	155829	47.04 ug/L	95
60) 4-Methyl-2-pentanone	9.655	43	484071	34.20 ug/L	97
61) trans-1,3-Dichloropropene	9.720	75	156671	7.35 ug/L	92
62) Tetrachloroethene	9.743	166	102778	5.33 ug/L	91
63) Ethyl methacrylate	9.826	69	120980	6.76 ug/L	90
64) 1,1,2-Trichloroethane	9.884	83	81100	6.80 ug/L	85
65) Dibromochloromethane	10.084	129	102650	6.75 ug/L	95
66) 1,3-Dichloropropane	10.166	76	175348	6.95 ug/L	93
67) 1,2-Dibromoethane	10.343	107	93314	6.75 ug/L	96
68) 2-hexanone	10.472	43	332580	33.45 ug/L	98
69) 1-Chlorohexane	10.777	91	161334	7.34 ug/L	95
70) Ethylbenzene	10.848	91	505106	6.19 ug/L	96
71) Chlorobenzene	10.848	112	283802	6.27 ug/L	94
72) 1,1,1,2-Tetrachloroethane	10.895	131	105643	6.42 ug/L	93
73) m,p-Xylene	10.983	91	824848	13.86 ug/L	98
74) o-Xylene	11.424	91	432076	7.00 ug/L	97
75) Styrene	11.471	104	311768	6.66 ug/L	94
76) Bromoform	11.530	173	62536	6.67 ug/L	94
77) Isopropylbenzene	11.723	105	493682	6.74 ug/L	100
80) cis-1,4-Dichloro-2-butene	12.076	53	39128	8.38 ug/L	89
81) n-Propylbenzene	12.146	91	615023	7.49 ug/L	97
82) Bromobenzene	12.170	156	123473	6.35 ug/L	93
83) 1,1,2,2-Tetrachloroethane	12.205	83	129891	7.67 ug/L	97
84) 1,3,5-Trimethylbenzene	12.329	105	438572	7.37 ug/L	96
85) 2-Chlorotoluene	12.335	91	422775	7.34 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.387	53	39766	8.94 ug/L	90
87) 1,2,3-Trichloropropane	12.364	110	34314	7.34 ug/L	93
88) Cyclohexanone	12.429	55	16628m	35.06 ug/L	
89) 4-Chlorotoluene	12.505	91	406737	7.40 ug/L	97
90) a-Methyl Styrene	12.593	118	204930	6.25 ug/L	97

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
Acq On : 12 Jul 2016 9:24 am
Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 10:01:47 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	269504	8.14	ug/L	97
92) 1,2,4-Trimethylbenzene	12.740	105	435884	7.21	ug/L	98
93) Pentachloroethane	12.722	167	62179	6.74	ug/L	84
94) sec-Butylbenzene	12.852	105	547961	7.21	ug/L	97
95) 4-Isopropyltoluene	12.981	119	437757	6.74	ug/L	98
96) 1,3-Dichlorobenzene	13.122	146	230503	5.98	ug/L	88
97) 1,4-Dichlorobenzene	13.204	146	233051	5.74	ug/L	90
98) n-Butylbenzene	13.416	92	287382	7.82	ug/L	96
99) Benzyl Chloride	13.433	126	52652	10.84	ug/L	95
100) 1,2-Dichlorobenzene	13.627	146	223105	6.07	ug/L	84
101) 1,2-Dibromo-3-Chloropr...	14.367	75	25440	10.31	ug/L #	66
102) Hexachlorobutadiene	14.914	225	76184	5.66	ug/L	94
103) 1,2,4-Trichlorobenzene	14.961	180	160122	6.00	ug/L	93
104) Naphthalene	15.243	128	338380	8.64	ug/L	94
105) 1,2,3-Trichlorobenzene	15.413	180	148565	6.77	ug/L	93
107) Ethanol	4.256	45	26449m	123.36	ug/L	
108) acrolein	4.737	56	78481	22.61	ug/L	96
109) Tert Butyl Alcohol	5.360	59	101436	59.93	ug/L #	67
110) tert Amyl alcohol	7.558	59	81352	63.74	ug/L #	79
111) Isobutyl alcohol	7.428	42	63130	85.65	ug/L #	82
112) 1,4-Dioxane	8.651	88	15007	75.81	ug/L	91
113) 3,3-Dimethyl-1-butanol	10.413	57	408822	265.25	ug/L	96

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

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

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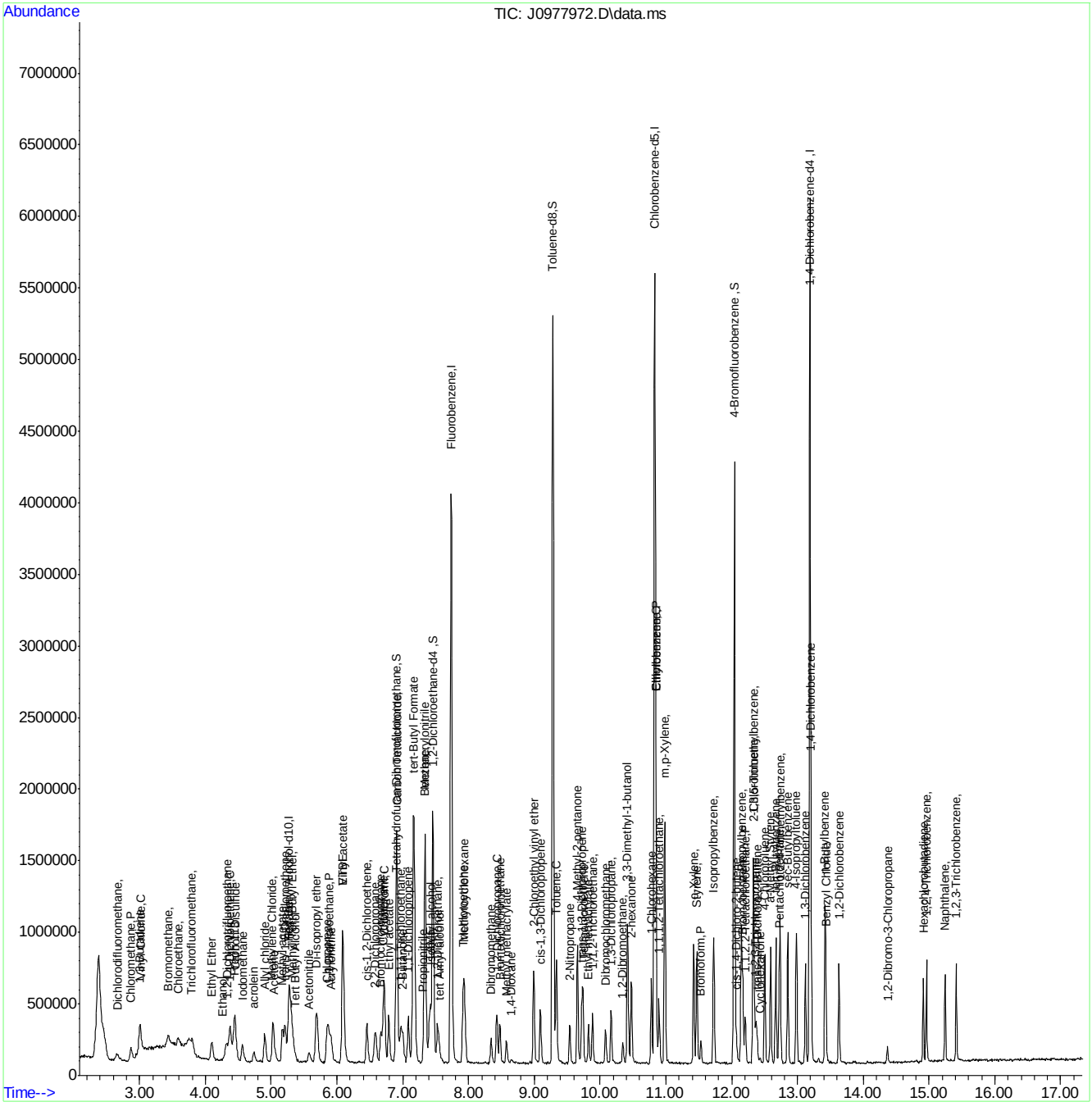
Data File : J0977972.D
Acq On : 12 Jul 2016 9:24 am
Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 10:01:47 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration



SGS ACCUTEST FA35362

Manual Integration Approval Summary

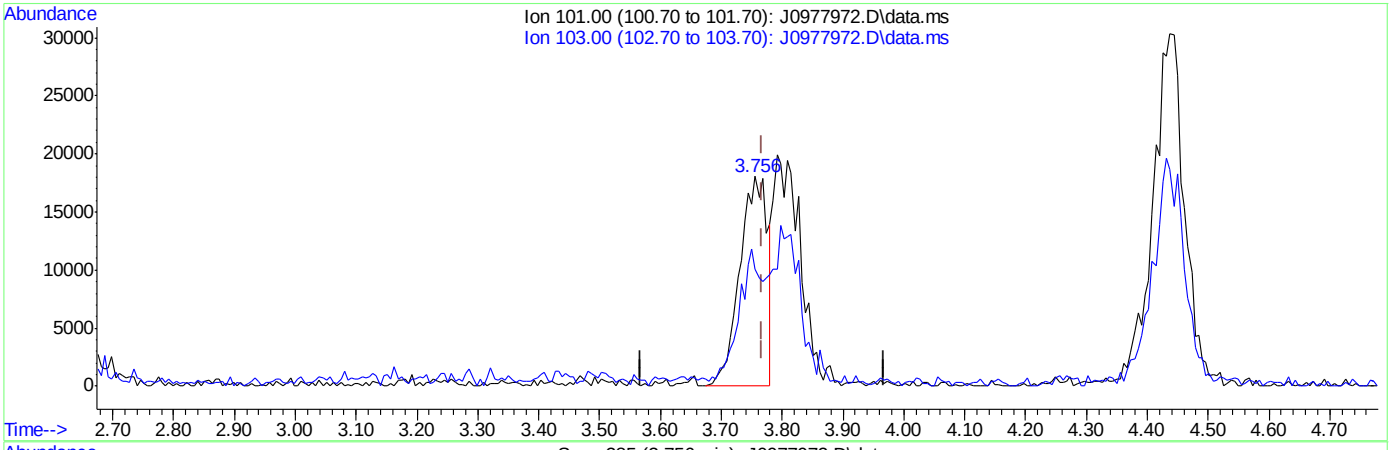
Sample Number:	VJ5368-IC5368	**Method:**	SW846 8260B
Lab FileID:	J0977972.D	**Analyst approved:**	07/12/16 14:17 Darshna Patel
Injection Time:	07/12/16 09:24	**Supervisor approved:**	07/13/16 14:14 Juan Garcia

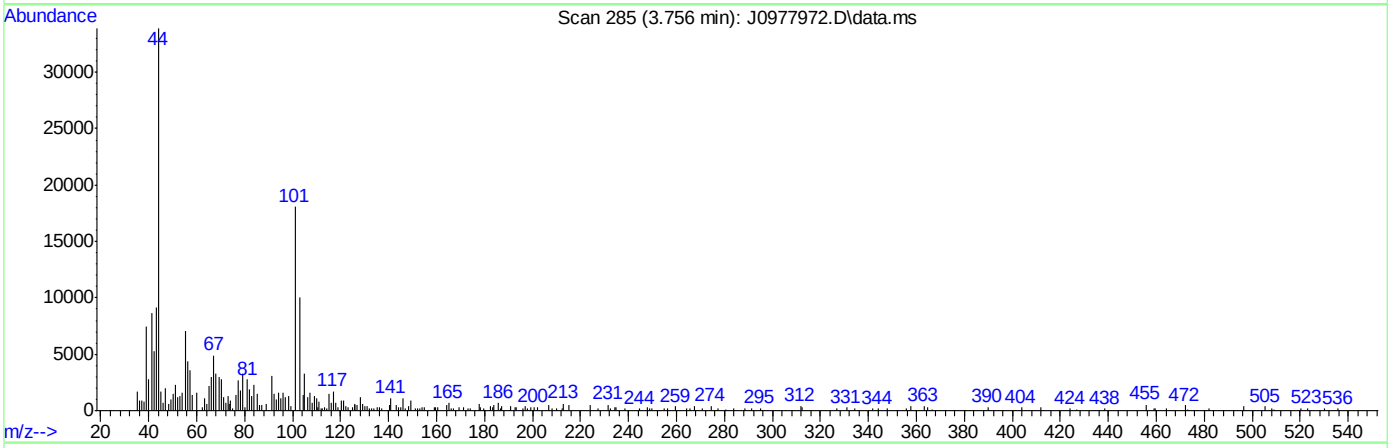
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.79	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Tetrahydrofuran	109-99-9		6.89	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.91	Overlapping peak
Cyclohexanone	108-94-1		12.43	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
Acq On : 12 Jul 2016 9:24 am
Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 09:54:39 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977972.D\data.ms

(8) Trichlorofluoromethane ( )

3.756min (-0.012) 1.69ug/L

response 57345

Ion	Exp%	Act%
101.00	100	100
103.00	59.20	52.14
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

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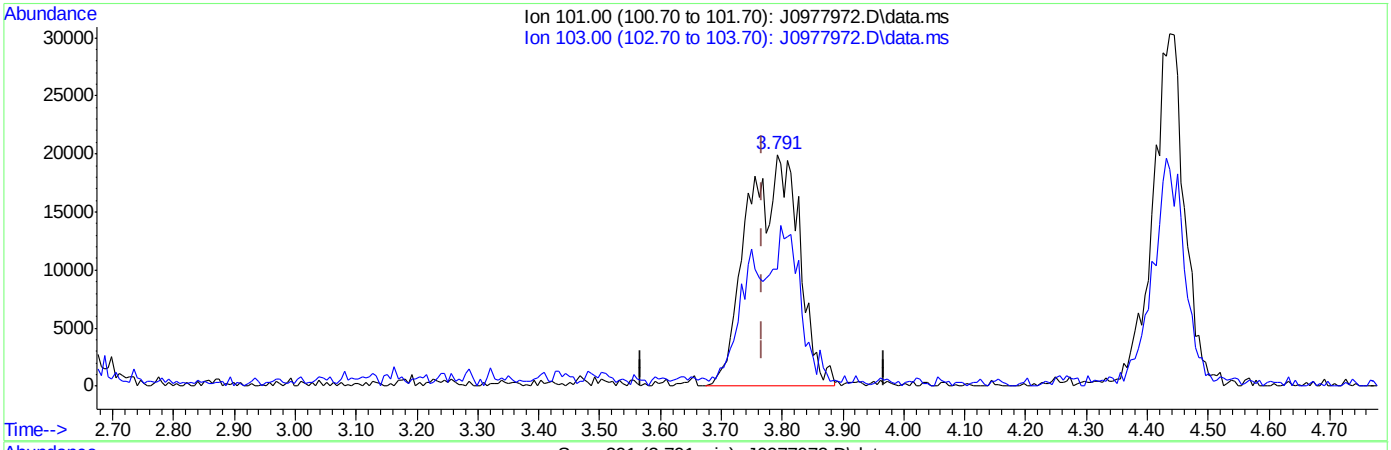

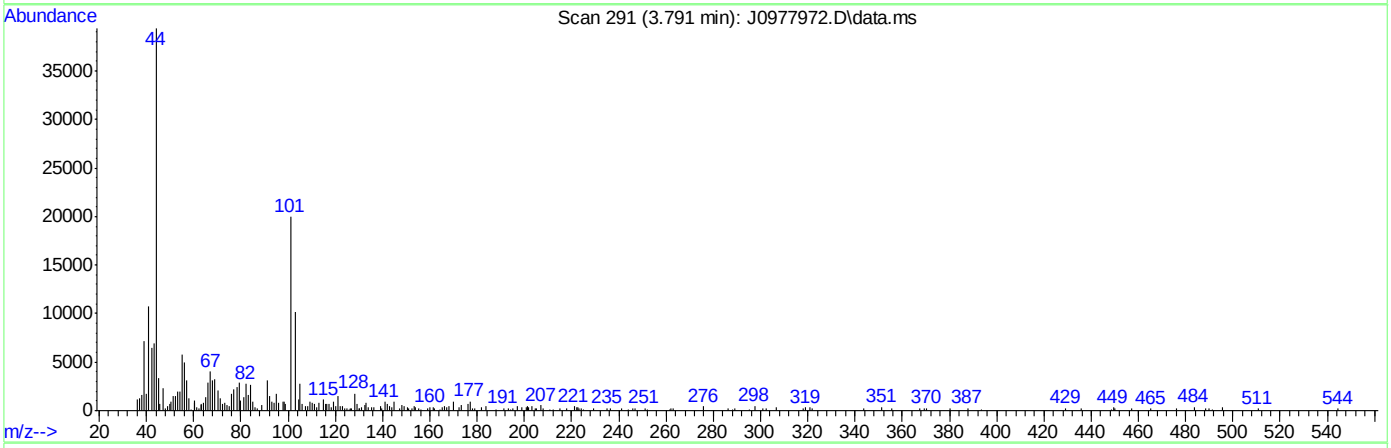

TIC: J0977972.D\data.ms

(8) Trichlorofluoromethane ( )

3.791min (+0.023) 3.48ug/L m

response 118049

Ion	Exp%	Act%
101.00	100	100
103.00	59.20	50.70
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
Acq On : 12 Jul 2016 9:24 am
Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
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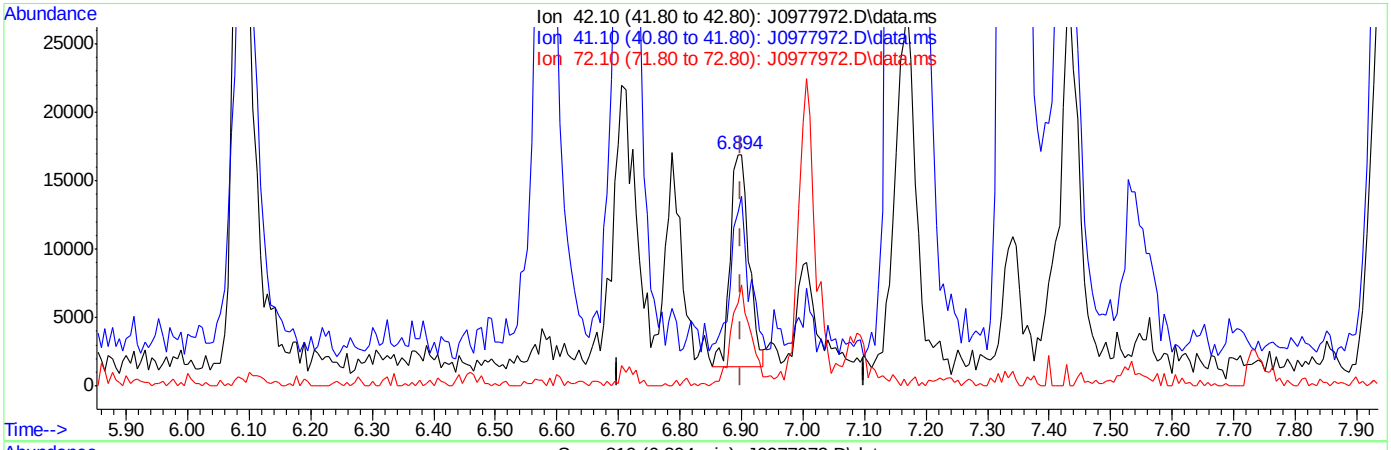

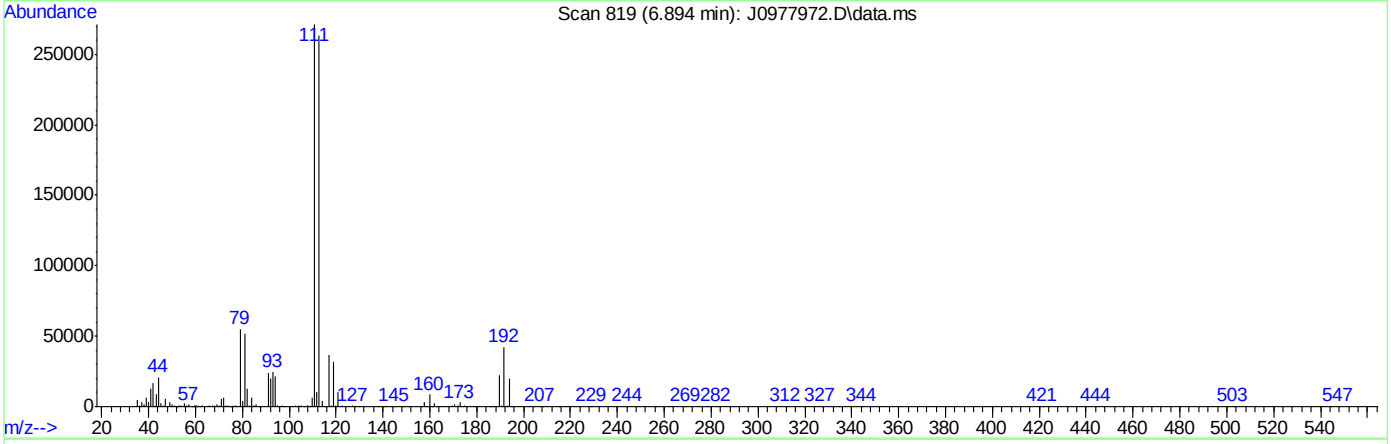

TIC: J0977972.D\data.ms

(35) Tetrahydrofuran

6.894min (-0.005) 7.40ug/L

response 32959

Ion	Exp%	Act%
42.10	100	100
41.10	48.20	62.44
72.10	34.60	37.65
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
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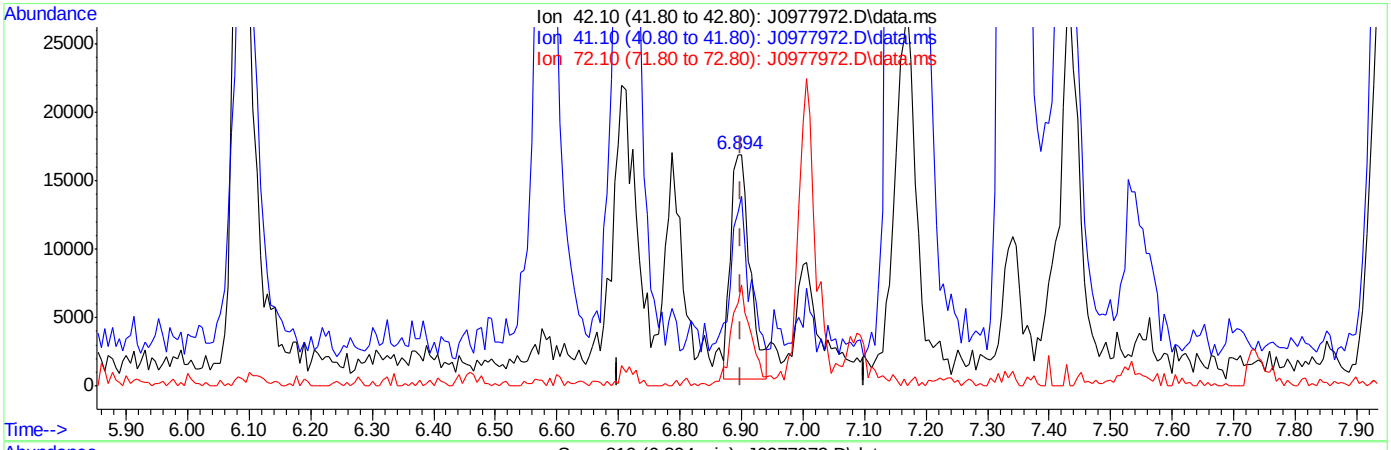

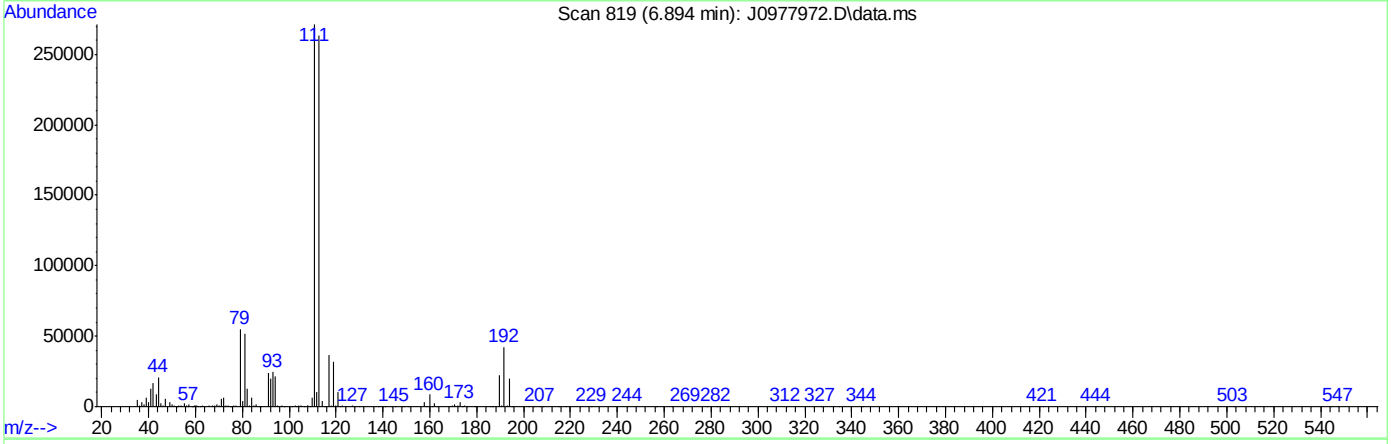

TIC: J0977972.D\data.ms

(35) Tetrahydrofuran

6.894min (-0.005) 8.10ug/L m

response 36068

Ion	Exp%	Act%
42.10	100	100
41.10	48.20	75.23#
72.10	34.60	35.89
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
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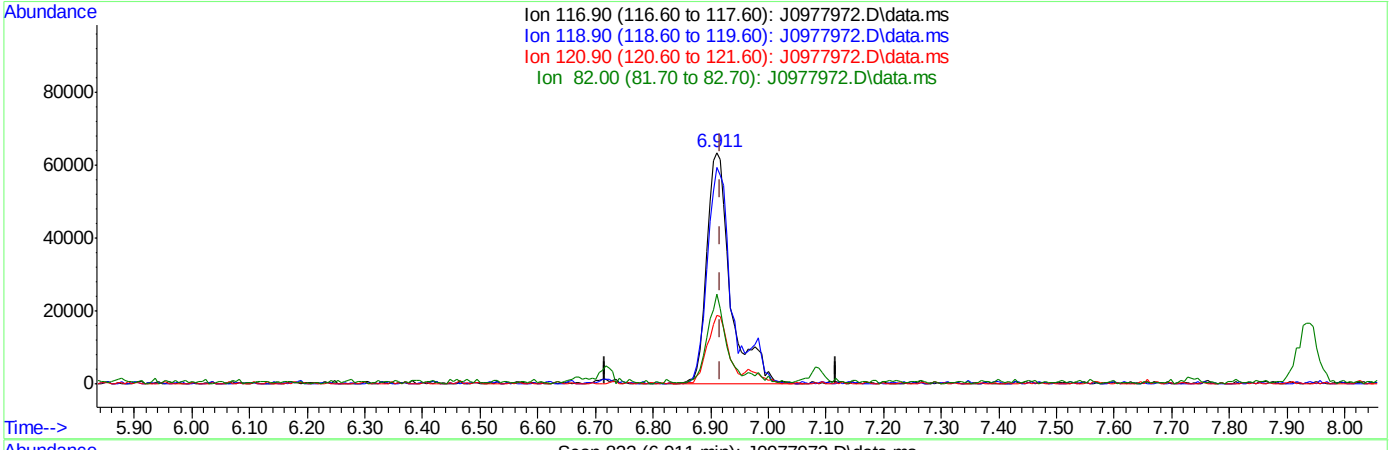

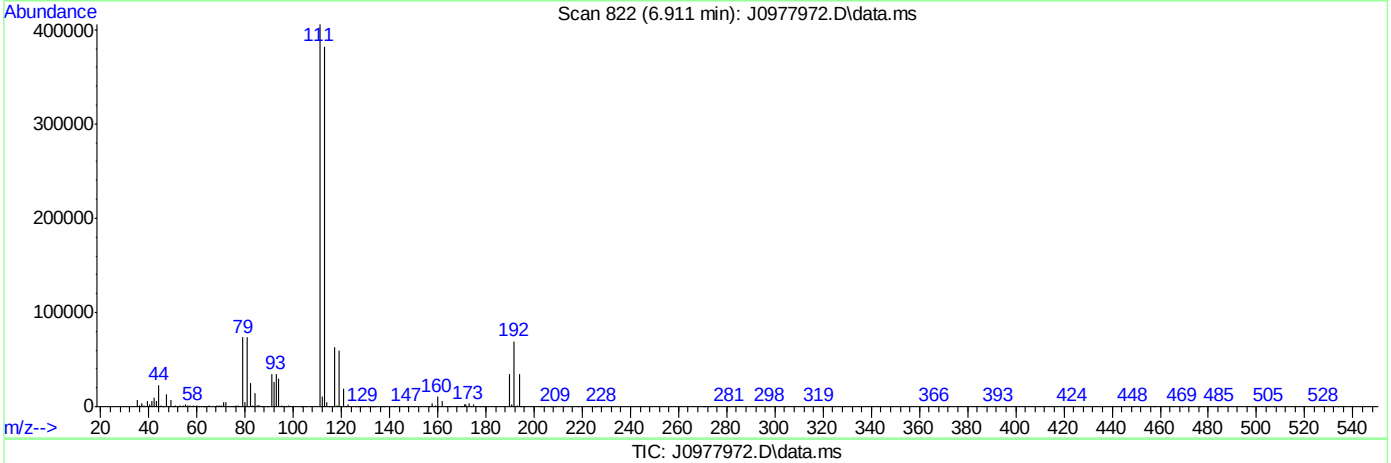

TIC: J0977972.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (-0.006) 8.32ug/L

response 183628

Ion	Exp%	Act%
116.90	100	100
118.90	99.70	92.90
120.90	25.70	29.80
82.00	26.30	38.14

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
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Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
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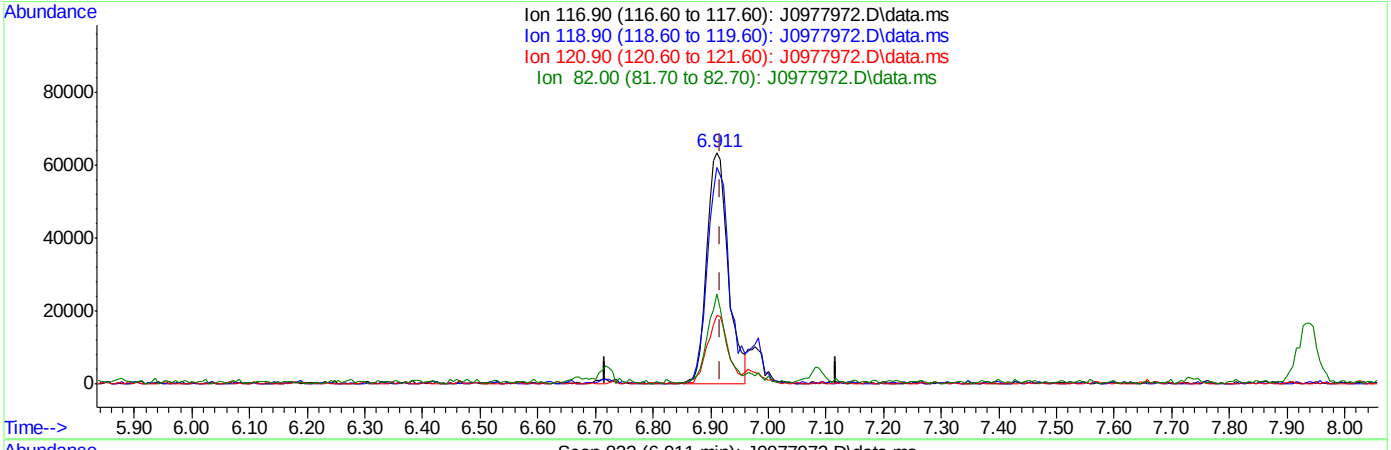
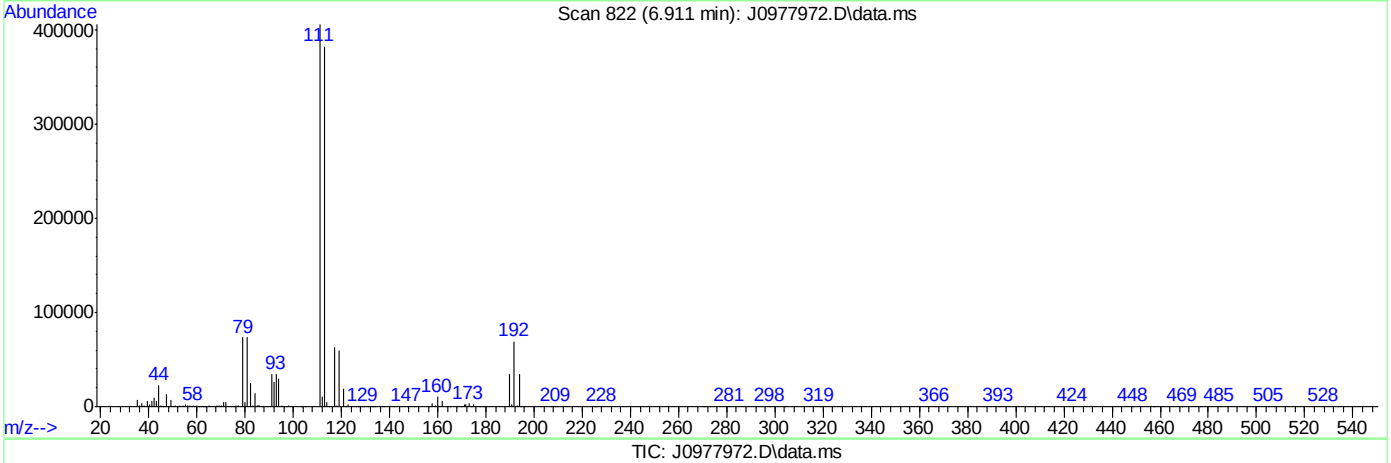
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 09:54:39 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977972.D\data.ms

(37) Carbon Tetrachloride ( )

6.911min (-0.006) 7.37ug/L m

response 162564

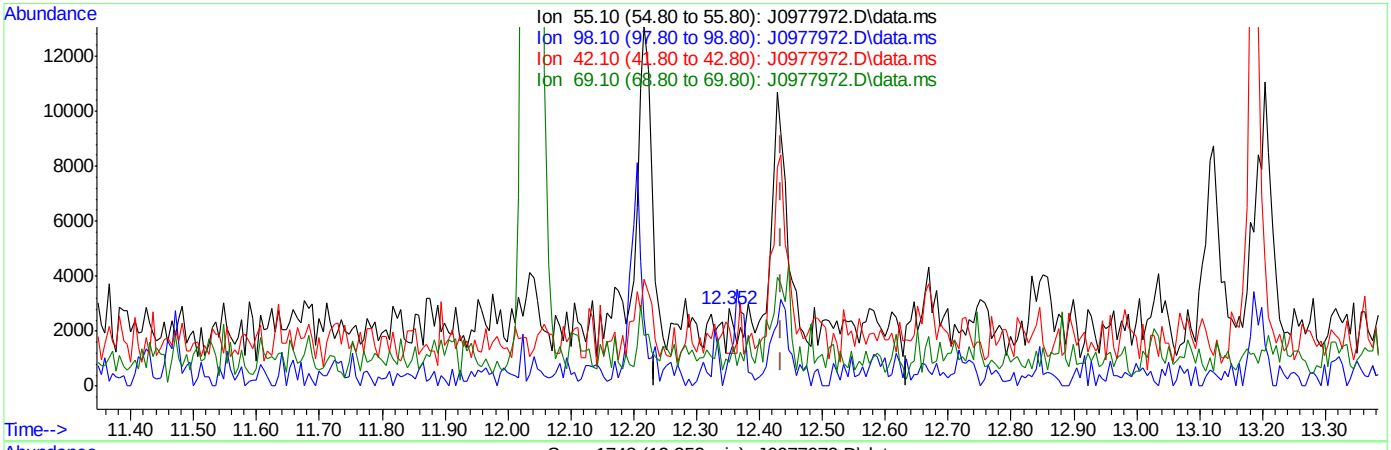
Ion	Exp%	Act%
116.90	100	100
118.90	99.70	93.52
120.90	25.70	29.80
82.00	26.30	38.75

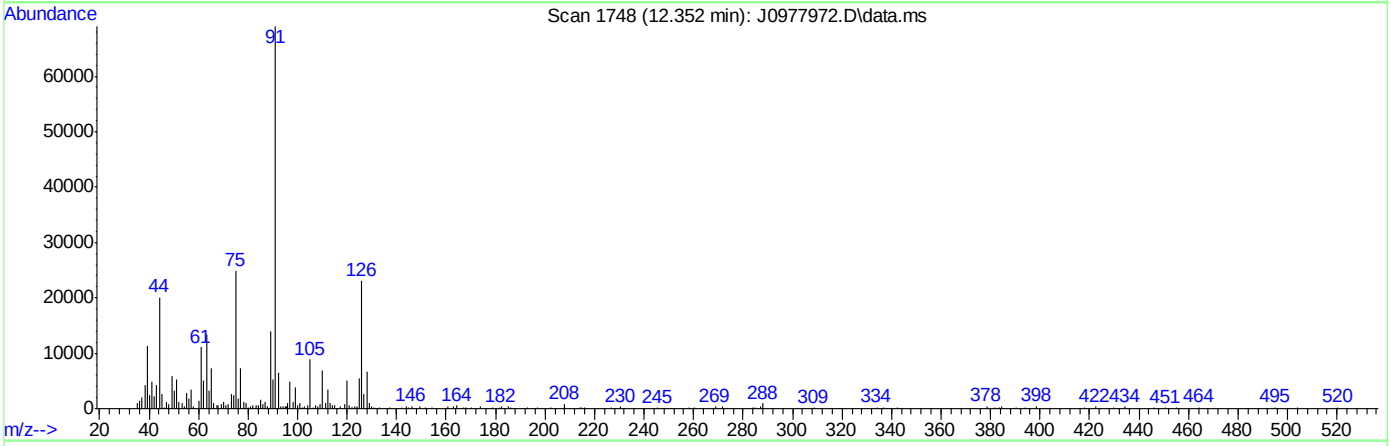
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
Acq On : 12 Jul 2016 9:24 am
Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 09:54:39 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977972.D\data.ms

(88) Cyclohexanone

12.352min (-0.082) 2.12ug/L

response 1003

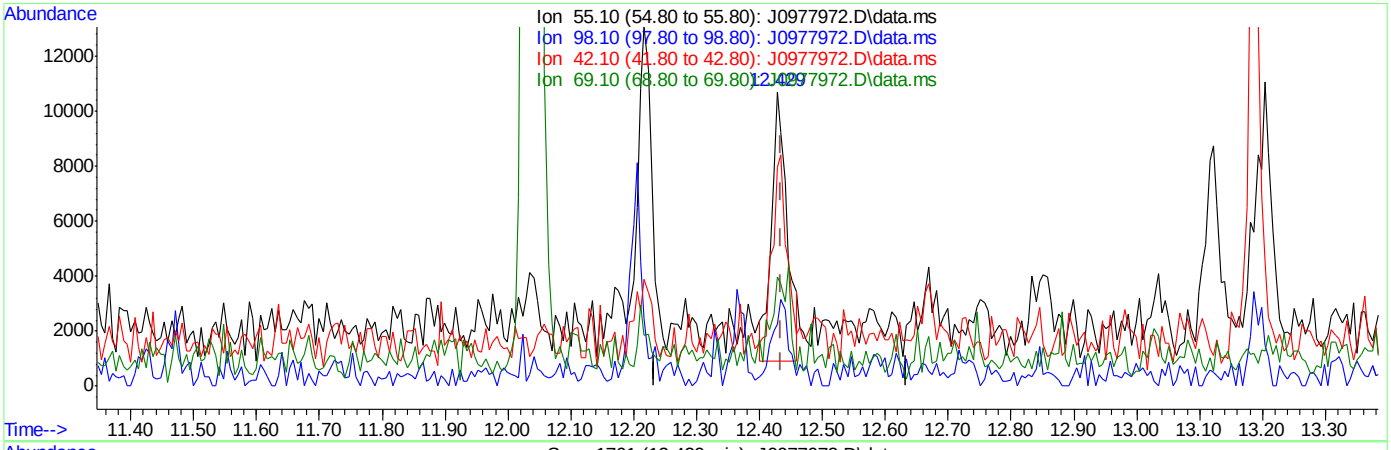
Ion	Exp%	Act%
55.10	100	100
98.10	28.30	37.04
42.10	50.80	33.79
69.10	20.60	8.43

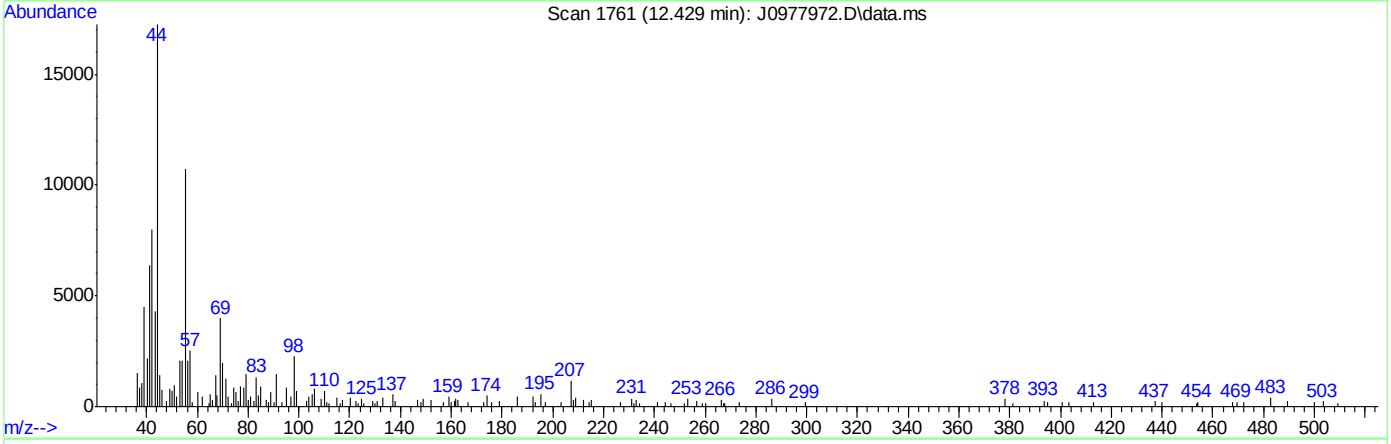
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
Acq On : 12 Jul 2016 9:24 am
Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 09:54:39 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977972.D\data.ms

(88) Cyclohexanone

12.429min (-0.005) 35.06ug/L m

response 16628

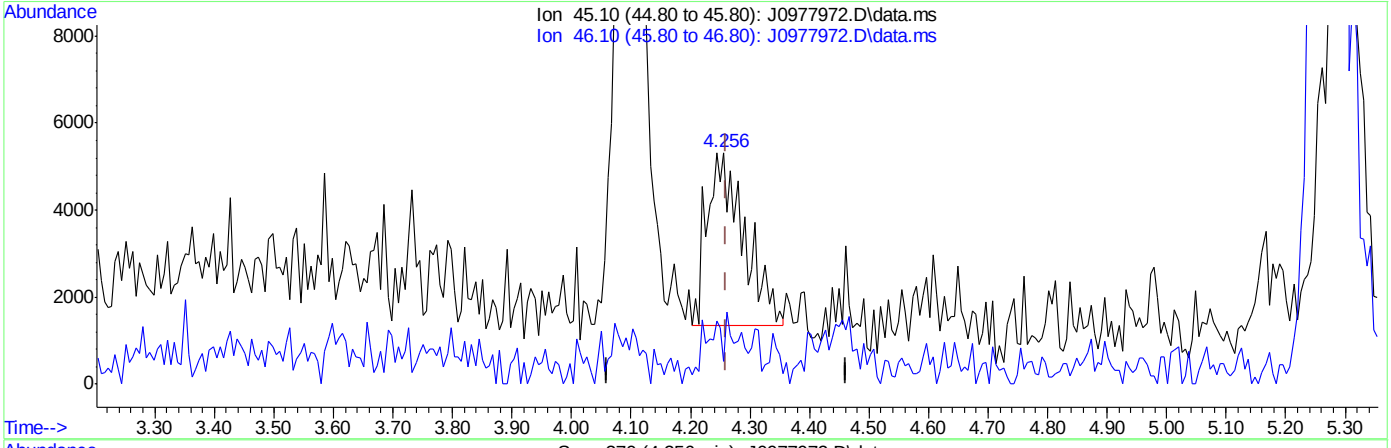
Ion	Exp%	Act%
55.10	100	100
98.10	28.30	21.19
42.10	50.80	74.48#
69.10	20.60	37.23

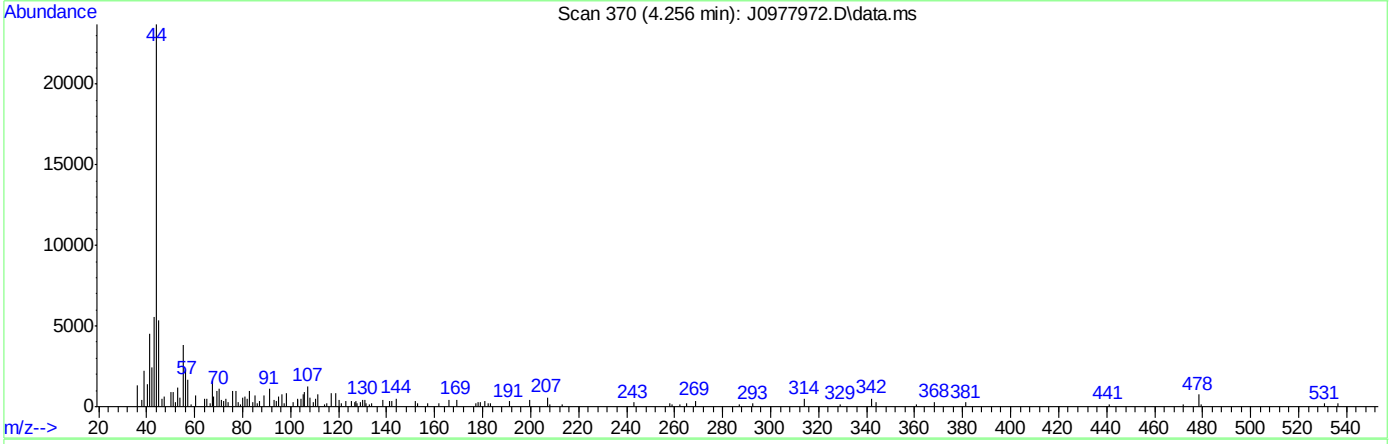
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
Acq On : 12 Jul 2016 9:24 am
Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 12 09:54:39 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





(107) Ethanol

4.256min (-0.005) 78.85ug/L

response 16901

Ion	Exp%	Act%
45.10	100	100
46.10	41.80	7.43#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977972.D
Acq On : 12 Jul 2016 9:24 am
Operator : darshnap
Sample : ic5368-2 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
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Quant Time: Jul 12 09:54:39 2016
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QLast Update : Fri Jul 08 08:13:09 2016
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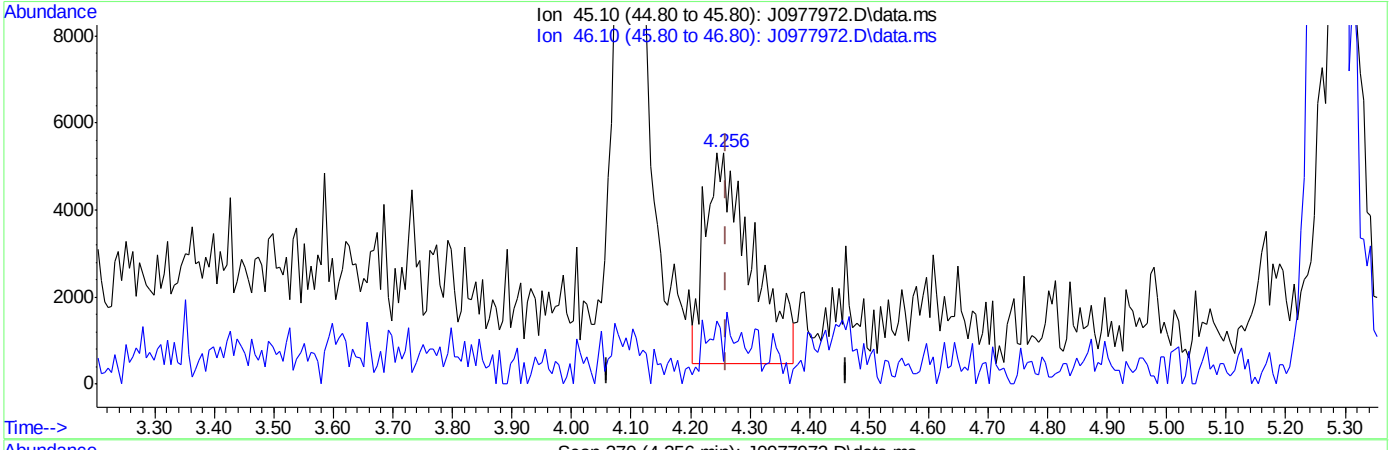
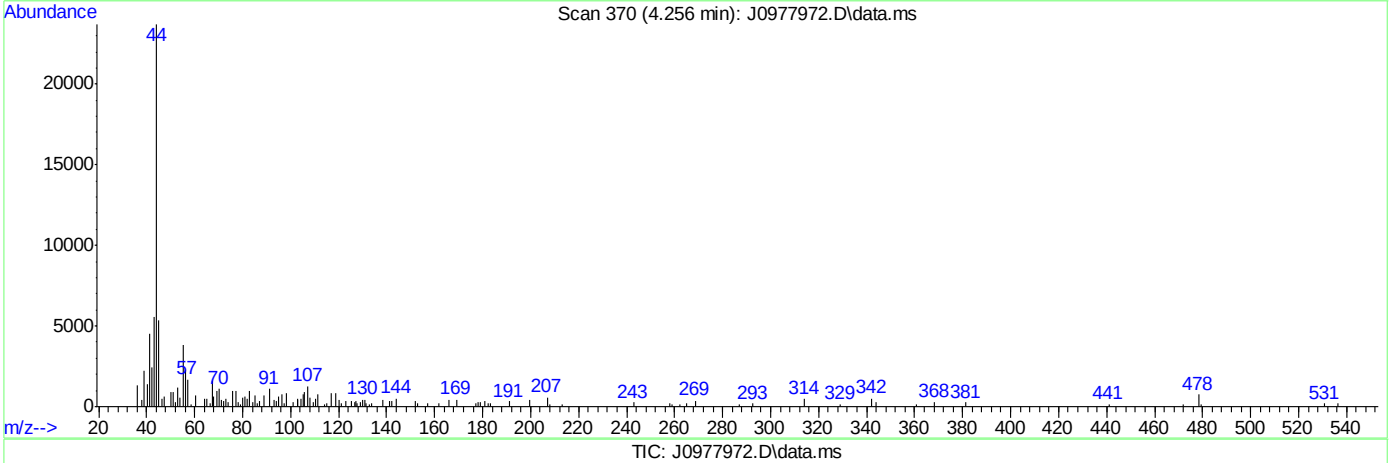




TIC: J0977972.D\data.ms

(107) Ethanol

4.256min (-0.005) 123.36ug/L m

response 26449

Ion	Exp%	Act%
45.10	100	100
46.10	41.80	9.79#
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/13/16 14:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977973.D
Acq On : 12 Jul 2016 9:47 am
Operator : darshnap
Sample : ic5368-3 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 11:12:22 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	3217356	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	2267553	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	1260069	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.266	65	323143	250.00	ug/L	-0.03
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	856766	51.95	ug/L	-0.01
Spiked Amount 50.000	Range 83 - 118		Recovery = 103.90%			
46) 1,2-Dichloroethane-d4	7.458	65	1138316	54.08	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.16%			
57) Toluene-d8	9.279	98	3033654	50.35	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 100.70%			
79) 4-Bromofluorobenzene	12.035	95	1336478	66.39	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 132.78%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.652	85	229377	12.42	ug/L	94
3) Chloromethane	2.875	50	268313	10.49	ug/L	100
4) Vinyl Chloride	3.016	62	207179	9.63	ug/L	100
5) 1,3-Butadiene	3.010	54	172324	9.92	ug/L #	86
6) Bromomethane	3.439	94	128087	6.69	ug/L	90
7) Chloroethane	3.586	64	112685	7.28	ug/L	92
8) Trichlorofluoromethane	3.815	101	232033m	6.88	ug/L	
9) Ethyl Ether	4.097	59	176353	11.78	ug/L	93
10) 1,2-Dichlorotrifluoroe...	4.326	67	208158	10.70	ug/L	94
11) 1,1-Dichloroethene	4.373	61	283454	10.62	ug/L	99
12) Freon 113	4.438	101	170329	10.27	ug/L	90
13) Carbon Disulfide	4.455	76	611297	11.58	ug/L	98
14) Iodomethane	4.567	142	286765	9.93	ug/L	96
15) Allyl chloride	4.902	41	356651	14.07	ug/L	95
16) Methylene Chloride	5.025	49	291682	8.83	ug/L	95
17) Acetone	5.043	58	76444	60.44	ug/L #	80
18) Methyl acetate	5.172	74	137578	63.70	ug/L #	87
19) trans-1,2-Dichloroethene	5.213	61	267690	11.17	ug/L	96
20) Hexane	5.278	56	184787	10.98	ug/L #	83
21) Methyl Tert Butyl Ether	5.313	73	604715	13.60	ug/L	95
22) Acetonitrile	5.566	40	120578	136.14	ug/L	88
23) Di-isopropyl ether	5.689	45	733239	10.95	ug/L	96
24) Chloroprene	5.848	53	342519	11.54	ug/L	96
25) 1,1-Dichloroethane	5.877	63	350388	11.17	ug/L	96
26) Acrylonitrile	5.907	53	346460	63.66	ug/L	93
27) ETBE	6.095	59	699902	12.21	ug/L	96
28) Vinyl acetate	6.089	43	2236622	66.10	ug/L	99
29) cis-1,2-Dichloroethene	6.453	96	202748	10.30	ug/L	94
30) 2,2-Dichloropropane	6.588	77	297801	13.35	ug/L	96
31) Bromochloromethane	6.665	128	91176	10.51	ug/L	88
32) Cyclohexane	6.712	56	349474	11.00	ug/L	91
33) Chloroform	6.717	83	357612	10.54	ug/L	94
34) Ethyl acetate	6.788	43	878045	67.27	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977973.D
Acq On : 12 Jul 2016 9:47 am
Operator : darshnap
Sample : ic5368-3 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 11:12:22 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	60121	13.56 ug/L	98
37) Carbon Tetrachloride	6.911	117	240841	10.97 ug/L	97
38) 1,1,1-Trichloroethane	6.976	97	302267	10.81 ug/L	85
39) 2-Butanone	7.005	43	390167	64.35 ug/L	98
40) 1,1-Dichloropropene	7.082	75	249286	10.90 ug/L	96
41) tert-Butyl Formate	7.170	59	1911934	215.41 ug/L #	62
42) Propionitrile	7.311	54	230879	117.71 ug/L	92
43) Methacrylonitrile	7.340	41	1073232	116.36 ug/L	95
44) Benzene	7.340	78	719783	10.72 ug/L	99
45) TAME	7.411	73	599153	12.64 ug/L	91
47) 1,2-Dichloroethane	7.528	62	278286	11.00 ug/L	98
48) Trichloroethene	7.916	95	179250	10.45 ug/L	90
49) Methylcyclohexane	7.940	83	319383	11.06 ug/L	96
50) Dibromomethane	8.345	93	115507	11.13 ug/L	93
51) 1,2-Dichloropropane	8.433	63	198722	11.00 ug/L	93
52) Bromodichloromethane	8.474	83	273989	12.02 ug/L	95
53) Methyl methacrylate	8.574	41	170754	13.22 ug/L	91
54) 2-Chloroethyl vinyl ether	8.991	63	540413	56.91 ug/L	94
55) cis-1,3-Dichloropropene	9.091	75	307812	12.08 ug/L	92
58) Toluene	9.338	91	744271	10.59 ug/L	100
59) 2-Nitropropane	9.538	41	256840	77.50 ug/L	95
60) 4-Methyl-2-pentanone	9.655	43	931052	65.74 ug/L	94
61) trans-1,3-Dichloropropene	9.720	75	269135	12.61 ug/L	96
62) Tetrachloroethene	9.743	166	174901	9.06 ug/L	93
63) Ethyl methacrylate	9.820	69	245571	13.72 ug/L	88
64) 1,1,2-Trichloroethane	9.884	83	137767	11.53 ug/L	91
65) Dibromochloromethane	10.084	129	179403	11.80 ug/L	93
66) 1,3-Dichloropropane	10.166	76	294762	11.67 ug/L	95
67) 1,2-Dibromoethane	10.343	107	167169	12.08 ug/L	94
68) 2-hexanone	10.472	43	635592	63.90 ug/L	98
69) 1-Chlorohexane	10.777	91	257053	11.68 ug/L	96
70) Ethylbenzene	10.842	91	823312	10.09 ug/L	91
71) Chlorobenzene	10.848	112	459636	10.16 ug/L	99
72) 1,1,1,2-Tetrachloroethane	10.895	131	178015	10.82 ug/L	97
73) m,p-Xylene	10.983	91	1315603	22.10 ug/L	98
74) o-Xylene	11.424	91	716686	11.60 ug/L	97
75) Styrene	11.471	104	517027	11.04 ug/L	96
76) Bromoform	11.530	173	100602	10.72 ug/L	92
77) Isopropylbenzene	11.729	105	801240	10.93 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.070	53	72965	15.36 ug/L #	78
81) n-Propylbenzene	12.147	91	986929	11.81 ug/L	100
82) Bromobenzene	12.170	156	195271	9.87 ug/L	92
83) 1,1,2,2-Tetrachloroethane	12.205	83	212208	12.31 ug/L	99
84) 1,3,5-Trimethylbenzene	12.329	105	723807	11.96 ug/L	96
85) 2-Chlorotoluene	12.335	91	698137	11.91 ug/L	95
86) trans-1,4-Dichloro-2-B...	12.387	53	67803	14.97 ug/L	91
87) 1,2,3-Trichloropropane	12.364	110	56870	12.01 ug/L	93
88) Cyclohexanone	12.429	55	29980	62.06 ug/L	74
89) 4-Chlorotoluene	12.499	91	663232	11.86 ug/L	93
90) a-Methyl Styrene	12.593	118	399270	11.97 ug/L	98

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977973.D
Acq On : 12 Jul 2016 9:47 am
Operator : darshnap
Sample : ic5368-3 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 11:12:22 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

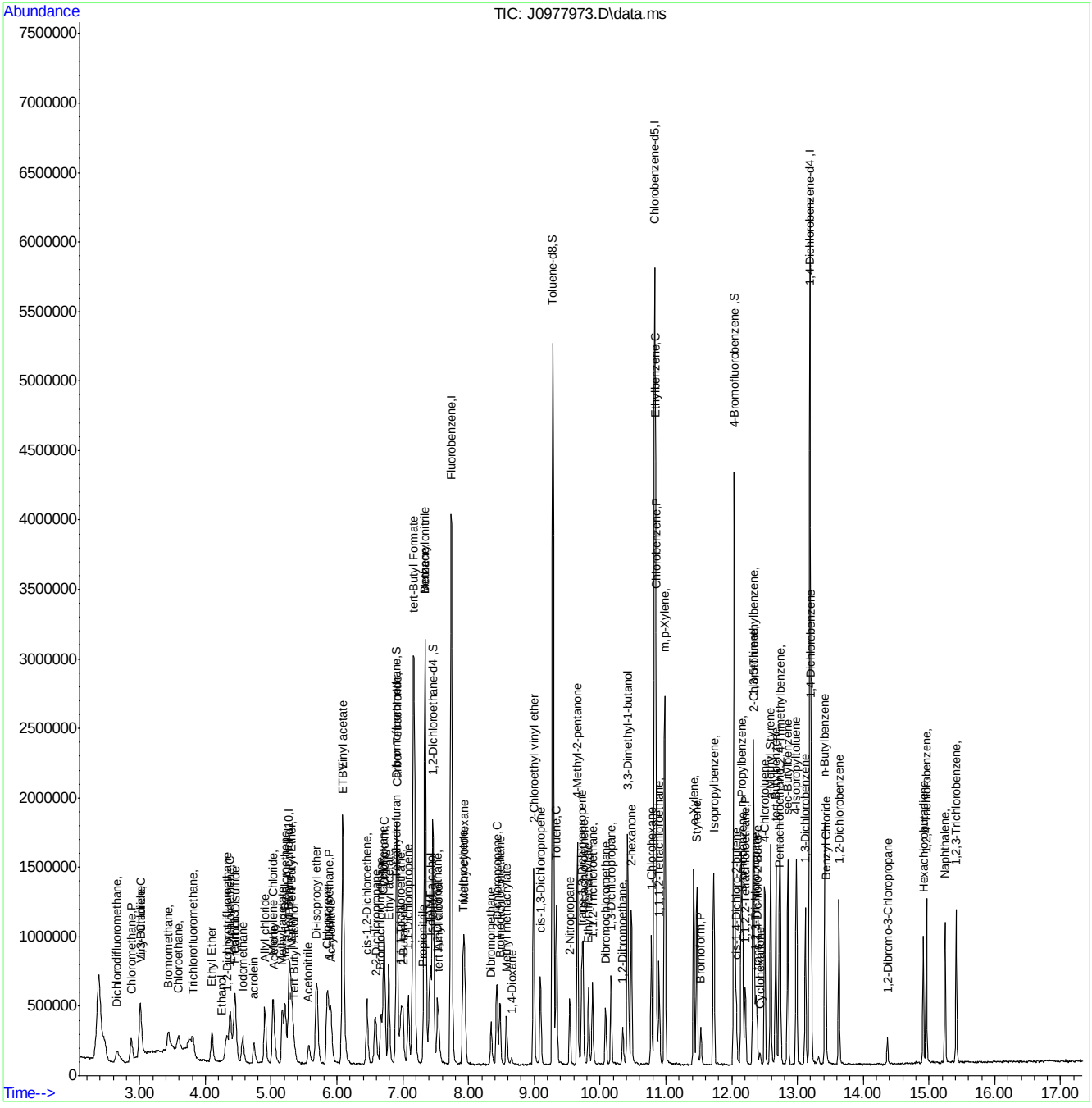
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	430593	12.78	ug/L	95
92) 1,2,4-Trimethylbenzene	12.734	105	721985	11.73	ug/L	96
93) Pentachloroethane	12.722	167	114991	12.25	ug/L	95
94) sec-Butylbenzene	12.852	105	864414	11.17	ug/L	100
95) 4-Isopropyltoluene	12.981	119	711810	10.77	ug/L	100
96) 1,3-Dichlorobenzene	13.122	146	370906	9.46	ug/L	91
97) 1,4-Dichlorobenzene	13.204	146	381876	9.24	ug/L	90
98) n-Butylbenzene	13.416	92	450426	12.04	ug/L	90
99) Benzyl Chloride	13.433	126	91157	18.12	ug/L #	81
100) 1,2-Dichlorobenzene	13.633	146	374498	10.01	ug/L	90
101) 1,2-Dibromo-3-Chloropr...	14.367	75	43122	17.17	ug/L #	64
102) Hexachlorobutadiene	14.914	225	115057	8.40	ug/L	98
103) 1,2,4-Trichlorobenzene	14.961	180	261878	9.64	ug/L	94
104) Naphthalene	15.243	128	571598	14.35	ug/L	97
105) 1,2,3-Trichlorobenzene	15.413	180	244892	10.96	ug/L	92
107) Ethanol	4.244	45	36582m	180.94	ug/L	
108) acrolein	4.737	56	171016	52.28	ug/L	99
109) Tert Butyl Alcohol	5.354	59	156113	97.57	ug/L	87
110) tert Amyl alcohol	7.546	59	128738	106.13	ug/L #	83
111) Isobutyl alcohol	7.434	42	112189	161.96	ug/L	94
112) 1,4-Dioxane	8.656	88	24626	132.23	ug/L	85
113) 3,3-Dimethyl-1-butanol	10.419	57	671659	456.35	ug/L	90

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977973.D
Acq On : 12 Jul 2016 9:47 am
Operator : darshnap
Sample : ic5368-3 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 11:12:22 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration



Manual Integration Approval Summary

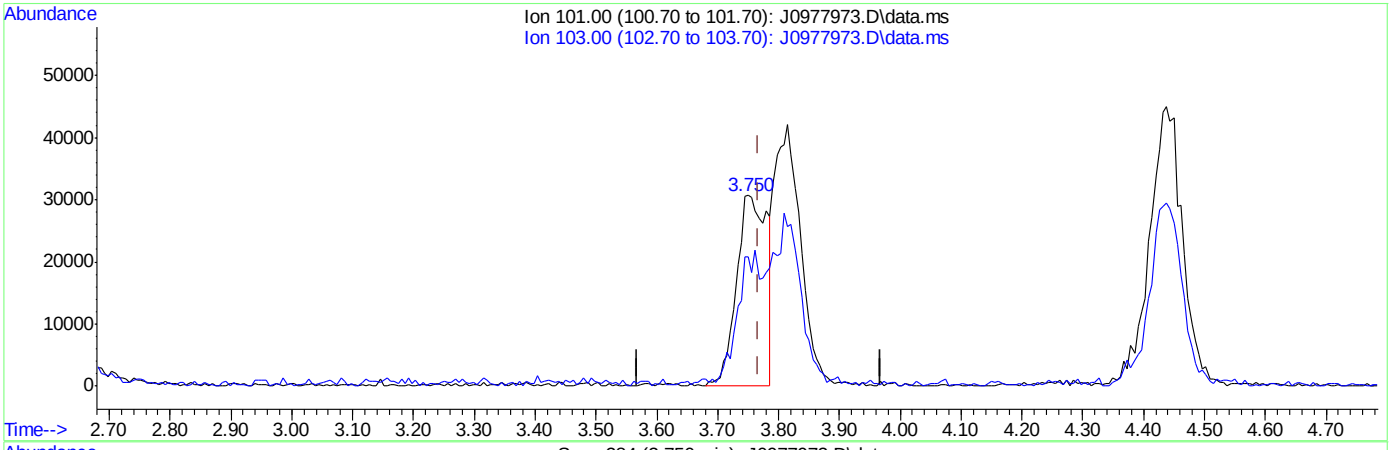
Sample Number:	VJ5368-IC5368	**Method:**	SW846 8260B
Lab FileID:	J0977973.D	**Analyst approved:**	07/12/16 14:17 Darshna Patel
Injection Time:	07/12/16 09:47	**Supervisor approved:**	07/13/16 14:14 Juan Garcia

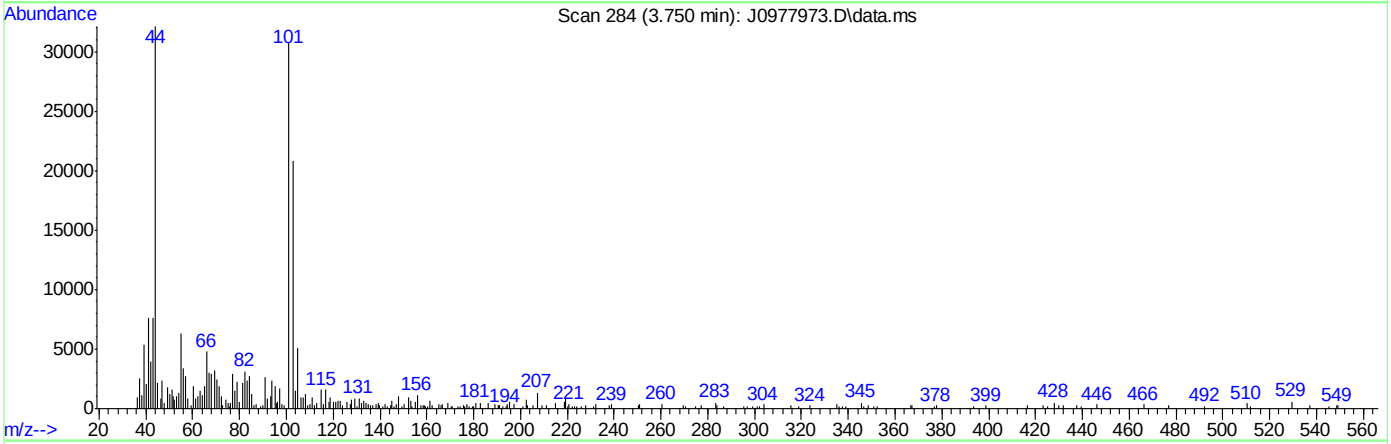
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.24	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977973.D
Acq On : 12 Jul 2016 9:47 am
Operator : darshnap
Sample : ic5368-3 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 11:10:08 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977973.D\data.ms

(8) Trichlorofluoromethane ( )

3.750min (-0.018) 3.19ug/L

response 107649

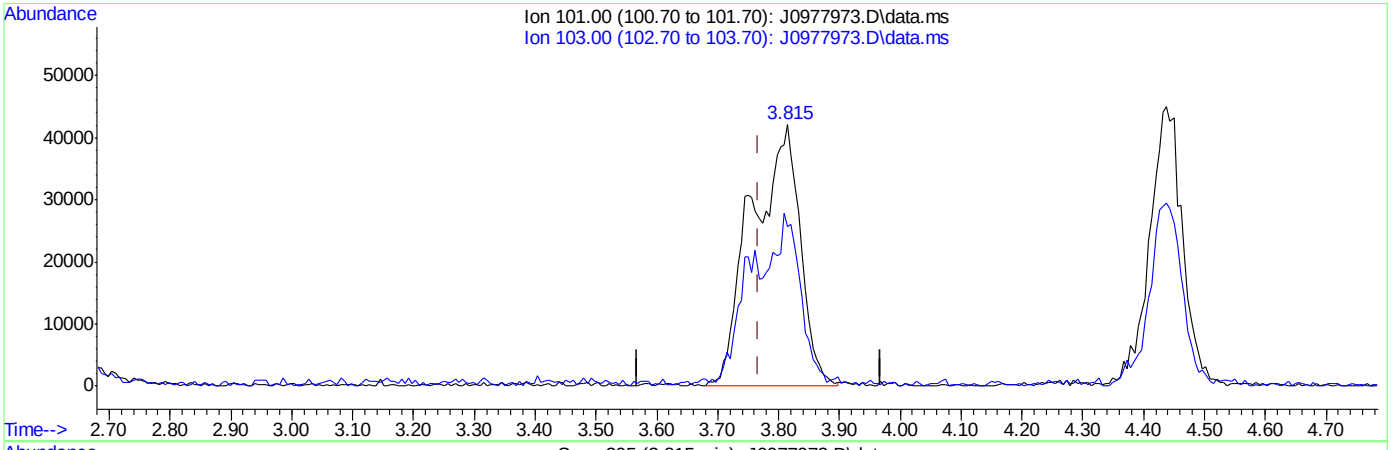
Ion	Exp%	Act%
101.00	100	100
103.00	59.20	65.18
0.00	0.00	0.00
0.00	0.00	0.00

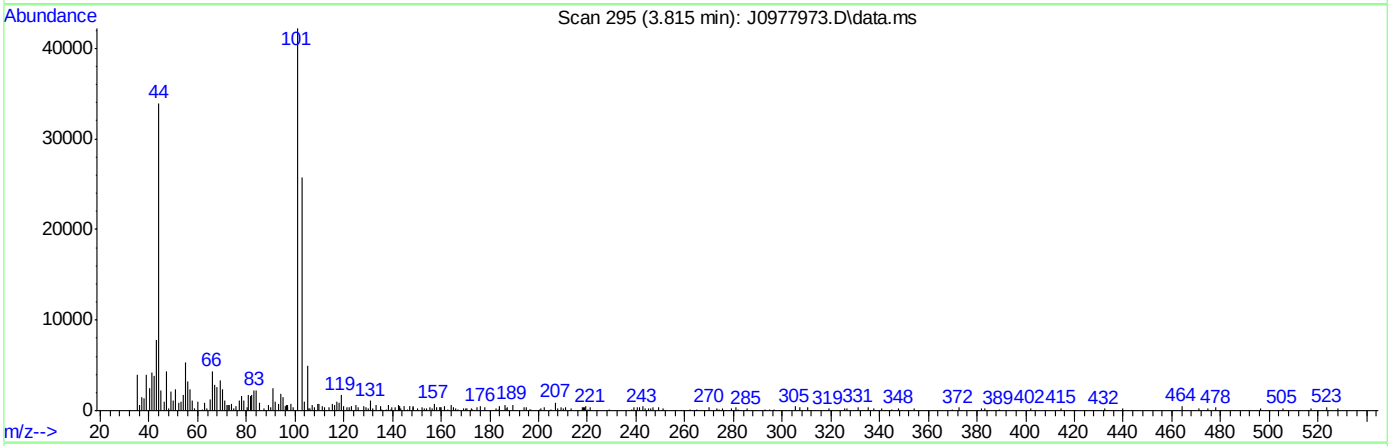
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977973.D
Acq On : 12 Jul 2016 9:47 am
Operator : darshnap
Sample : ic5368-3 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 11:10:08 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977973.D\data.ms

(8) Trichlorofluoromethane ( )

3.815min (+0.047) 6.88ug/L m

response 232033

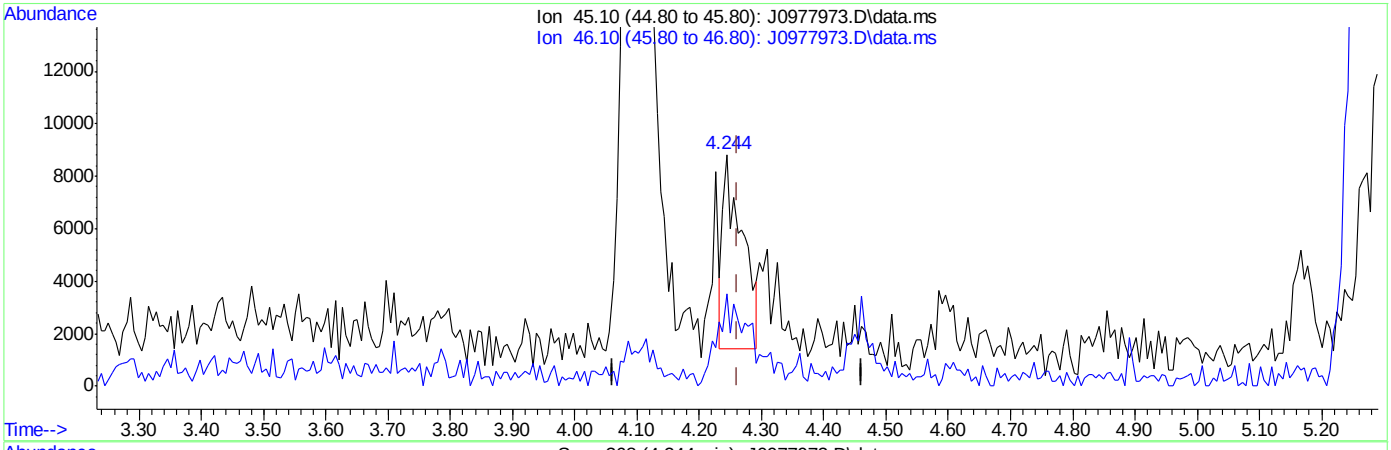
Ion	Exp%	Act%
101.00	100	100
103.00	59.20	61.03
0.00	0.00	0.00
0.00	0.00	0.00

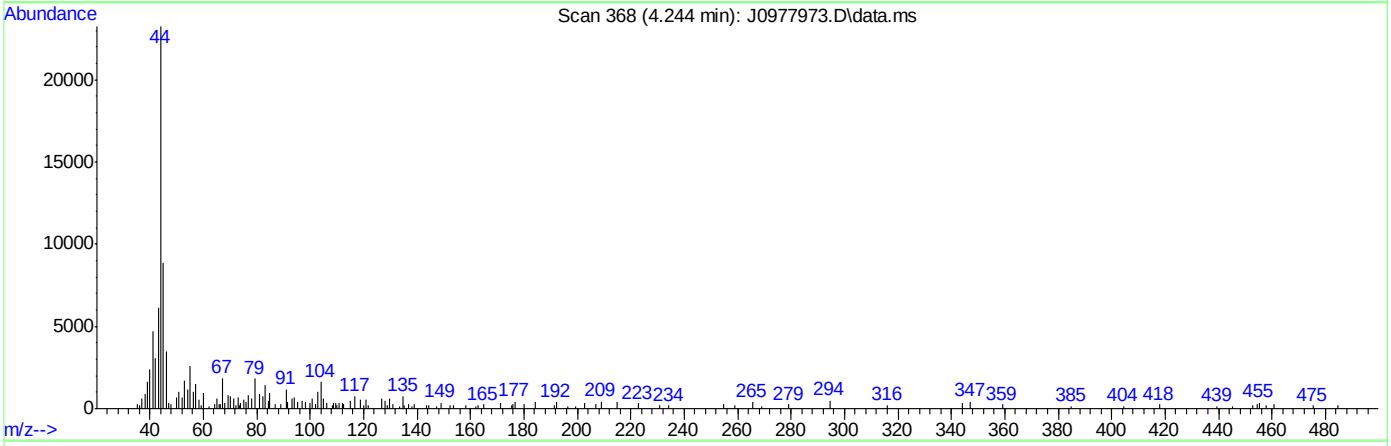
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977973.D
Acq On : 12 Jul 2016 9:47 am
Operator : darshnap
Sample : ic5368-3 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 11:10:08 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977973.D\data.ms

(107) Ethanol

4.244min (-0.017) 78.39ug/L

response 15840

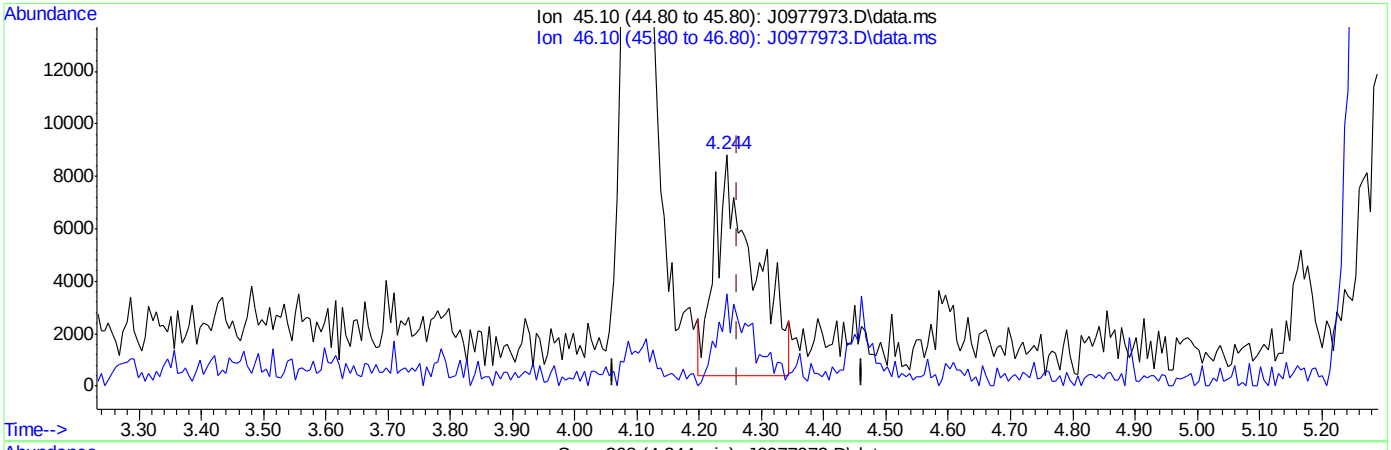
Ion	Exp%	Act%
45.10	100	100
46.10	41.80	54.05
0.00	0.00	0.00
0.00	0.00	0.00

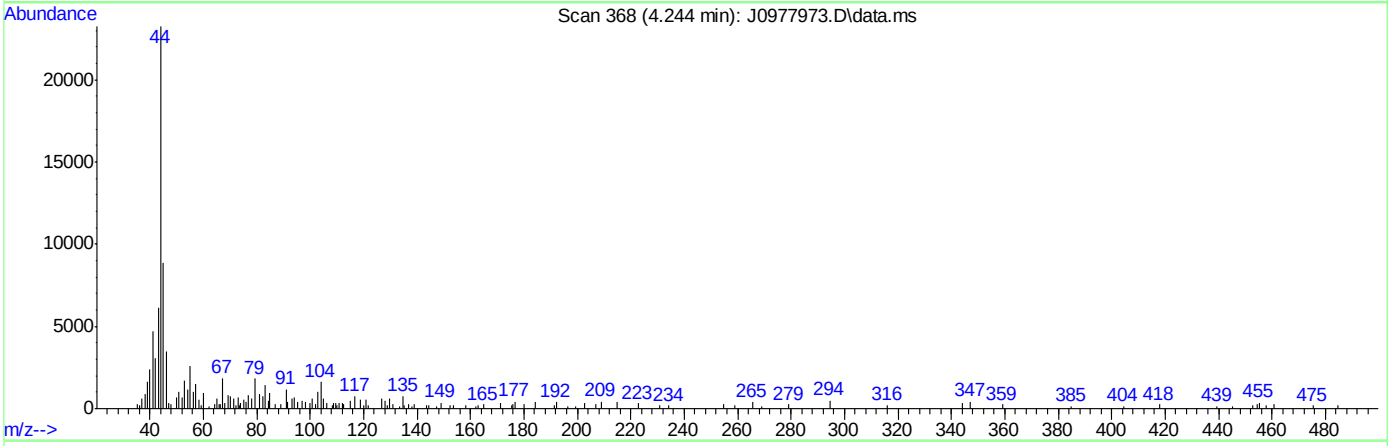
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977973.D
Acq On : 12 Jul 2016 9:47 am
Operator : darshnap
Sample : ic5368-3 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 12 11:10:08 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977973.D\data.ms

(107) Ethanol

4.244min (-0.017) 180.94ug/L m

response 36582

Ion	Exp%	Act%
45.10	100	100
46.10	41.80	39.64
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/13/16 14:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977974.D
Acq On : 12 Jul 2016 10:10 am
Operator : darshnap
Sample : ic5368-4 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 12 11:13:04 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	3183549	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	2208187	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	1249678	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	329093	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	851426	52.18	ug/L	-0.01
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.36%			
46) 1,2-Dichloroethane-d4	7.458	65	1128153	54.17	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.34%			
57) Toluene-d8	9.285	98	2965759	50.55	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.10%			
79) 4-Bromofluorobenzene	12.035	95	1337181	66.98	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 133.96%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.657	85	544107	29.50	ug/L	99
3) Chloromethane	2.875	50	664489	26.25	ug/L	100
4) Vinyl Chloride	3.022	62	503316	23.32	ug/L	99
5) 1,3-Butadiene	3.010	54	432224	25.66	ug/L	89
6) Bromomethane	3.433	94	291732	15.40	ug/L	92
7) Chloroethane	3.586	64	274173	18.23	ug/L	97
8) Trichlorofluoromethane	3.809	101	558083m	16.72	ug/L	
9) Ethyl Ether	4.097	59	424394	28.64	ug/L	91
10) 1,2-Dichlorotrifluoroe...	4.332	67	505441	26.25	ug/L	92
11) 1,1-Dichloroethene	4.379	61	690519	26.13	ug/L	99
12) Freon 113	4.438	101	416320	25.36	ug/L	86
13) Carbon Disulfide	4.455	76	1486475	28.45	ug/L	100
14) Iodomethane	4.567	142	720260	25.21	ug/L	93
15) Allyl chloride	4.902	41	876202	34.94	ug/L	96
16) Methylene Chloride	5.025	49	710361	22.41	ug/L	93
17) Acetone	5.049	58	182896	146.11	ug/L	96
18) Methyl acetate	5.172	74	341690	159.89	ug/L	98
19) trans-1,2-Dichloroethene	5.213	61	649970	27.48	ug/L	95
20) Hexane	5.278	56	422361	25.37	ug/L	87
21) Methyl Tert Butyl Ether	5.313	73	1494834	33.99	ug/L	92
22) Acetonitrile	5.566	40	290105	330.96	ug/L	91
23) Di-isopropyl ether	5.695	45	1809557	27.30	ug/L	95
24) Chloroprene	5.854	53	812466	27.65	ug/L	97
25) 1,1-Dichloroethane	5.877	63	825129	26.69	ug/L	97
26) Acrylonitrile	5.907	53	853248	158.44	ug/L	97
27) ETBE	6.100	59	1701558	29.94	ug/L	98
28) Vinyl acetate	6.089	43	4767928	142.41	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	519887	26.70	ug/L	89
30) 2,2-Dichloropropane	6.588	77	722293	32.74	ug/L	98
31) Bromochloromethane	6.665	128	228797	26.65	ug/L #	83
32) Cyclohexane	6.712	56	835848	26.60	ug/L	94
33) Chloroform	6.717	83	862371	25.69	ug/L	99
34) Ethyl acetate	6.788	43	1943136	150.45	ug/L	99

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977974.D
Acq On : 12 Jul 2016 10:10 am
Operator : darshnap
Sample : ic5368-4 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 12 11:13:04 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35) Tetrahydrofuran	6.894	42	127486	29.06	ug/L		97
37) Carbon Tetrachloride	6.911	117	598306	27.53	ug/L		95
38) 1,1,1-Trichloroethane	6.976	97	754345	27.27	ug/L		85
39) 2-Butanone	6.999	43	886979	147.84	ug/L		100
40) 1,1-Dichloropropene	7.082	75	591259	26.14	ug/L		95
41) tert-Butyl Formate	7.170	59	4451828	493.06	ug/L	#	62
42) Propionitrile	7.311	54	570009	294.37	ug/L		93
43) Methacrylonitrile	7.340	41	2530037	283.83	ug/L		97
44) Benzene	7.340	78	1690625	25.45	ug/L		98
45) TAME	7.411	73	1455776	31.03	ug/L		93
47) 1,2-Dichloroethane	7.528	62	684037	27.32	ug/L		97
48) Trichloroethene	7.916	95	433673	25.67	ug/L		97
49) Methylcyclohexane	7.940	83	791448	27.70	ug/L		97
50) Dibromomethane	8.345	93	283543	27.94	ug/L		96
51) 1,2-Dichloropropane	8.427	63	485967	27.18	ug/L		98
52) Bromodichloromethane	8.474	83	646353	28.66	ug/L		95
53) Methyl methacrylate	8.574	41	420966	32.95	ug/L		93
54) 2-Chloroethyl vinyl ether	8.991	63	1422850	151.44	ug/L		94
55) cis-1,3-Dichloropropene	9.091	75	756580	29.99	ug/L		90
58) Toluene	9.332	91	1785019	26.09	ug/L		97
59) 2-Nitropropane	9.538	41	616497	191.02	ug/L		99
60) 4-Methyl-2-pentanone	9.655	43	2068273	149.96	ug/L		93
61) trans-1,3-Dichloropropene	9.720	75	661022	31.81	ug/L		95
62) Tetrachloroethene	9.737	166	402857	21.44	ug/L		86
63) Ethyl methacrylate	9.820	69	616684	35.38	ug/L		91
64) 1,1,2-Trichloroethane	9.884	83	337396	28.95	ug/L		91
65) Dibromochloromethane	10.084	129	441395	29.80	ug/L		98
66) 1,3-Dichloropropane	10.166	76	727381	29.58	ug/L		96
67) 1,2-Dibromoethane	10.343	107	402631	29.88	ug/L		100
68) 2-hexanone	10.472	43	1450275	149.73	ug/L		97
69) 1-Chlorohexane	10.777	91	593135	27.68	ug/L		91
70) Ethylbenzene	10.842	91	1900104	23.92	ug/L		95
71) Chlorobenzene	10.848	112	1091865	24.77	ug/L		98
72) 1,1,1,2-Tetrachloroethane	10.895	131	437257	27.29	ug/L		98
73) m,p-Xylene	10.983	91	2971171	51.24	ug/L		93
74) o-Xylene	11.424	91	1704711	28.34	ug/L		98
75) Styrene	11.471	104	1298513	28.46	ug/L		96
76) Bromoform	11.529	173	262493	28.73	ug/L		97
77) Isopropylbenzene	11.723	105	1884253	26.40	ug/L		97
80) cis-1,4-Dichloro-2-butene	12.070	53	189874	40.26	ug/L		88
81) n-Propylbenzene	12.146	91	2279278	27.50	ug/L		99
82) Bromobenzene	12.170	156	485102	24.71	ug/L		90
83) 1,1,2,2-Tetrachloroethane	12.205	83	530823	31.05	ug/L		94
84) 1,3,5-Trimethylbenzene	12.329	105	1700278	28.32	ug/L		91
85) 2-Chlorotoluene	12.334	91	1620526	27.87	ug/L		98
86) trans-1,4-Dichloro-2-B...	12.387	53	167206	37.23	ug/L	#	81
87) 1,2,3-Trichloropropane	12.364	110	143454	31.14	ug/L		90
88) Cyclohexanone	12.434	55	65049	135.56	ug/L		82
89) 4-Chlorotoluene	12.499	91	1588425	28.64	ug/L		94
90) a-Methyl Styrene	12.593	118	981260	29.65	ug/L		97

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977974.D
Acq On : 12 Jul 2016 10:10 am
Operator : darshnap
Sample : ic5368-4 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 12 11:13:04 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91)	tert-Butylbenzene	12.669	91	1024684	30.68	ug/L	98
92)	1,2,4-Trimethylbenzene	12.734	105	1707431	27.98	ug/L	99
93)	Pentachloroethane	12.722	167	301542	32.40	ug/L	93
94)	sec-Butylbenzene	12.852	105	2045092	26.65	ug/L	99
95)	4-Isopropyltoluene	12.981	119	1731651	26.42	ug/L	98
96)	1,3-Dichlorobenzene	13.122	146	932195	23.97	ug/L	90
97)	1,4-Dichlorobenzene	13.204	146	935129	22.81	ug/L	93
98)	n-Butylbenzene	13.416	92	1126892	30.37	ug/L	92
99)	Benzyl Chloride	13.433	126	212163	40.40	ug/L #	75
100)	1,2-Dichlorobenzene	13.627	146	926178	24.96	ug/L	90
101)	1,2-Dibromo-3-Chloropr...	14.367	75	105776	42.46	ug/L #	77
102)	Hexachlorobutadiene	14.914	225	288210	21.22	ug/L	96
103)	1,2,4-Trichlorobenzene	14.961	180	666989	24.75	ug/L	93
104)	Naphthalene	15.243	128	1393411	35.26	ug/L	95
105)	1,2,3-Trichlorobenzene	15.413	180	609156	27.49	ug/L	93
107)	Ethanol	4.256	45	76309m	370.23	ug/L	
108)	acrolein	4.737	56	407860	122.42	ug/L	89
109)	Tert Butyl Alcohol	5.360	59	390489	237.15	ug/L	85
110)	tert Amyl alcohol	7.552	59	332023	260.97	ug/L	85
111)	Isobutyl alcohol	7.434	42	258749	369.89	ug/L	91
112)	1,4-Dioxane	8.650	88	59492	315.78	ug/L	89
113)	3,3-Dimethyl-1-butanol	10.419	57	1649515	1057.76	ug/L	92

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

7.6.4

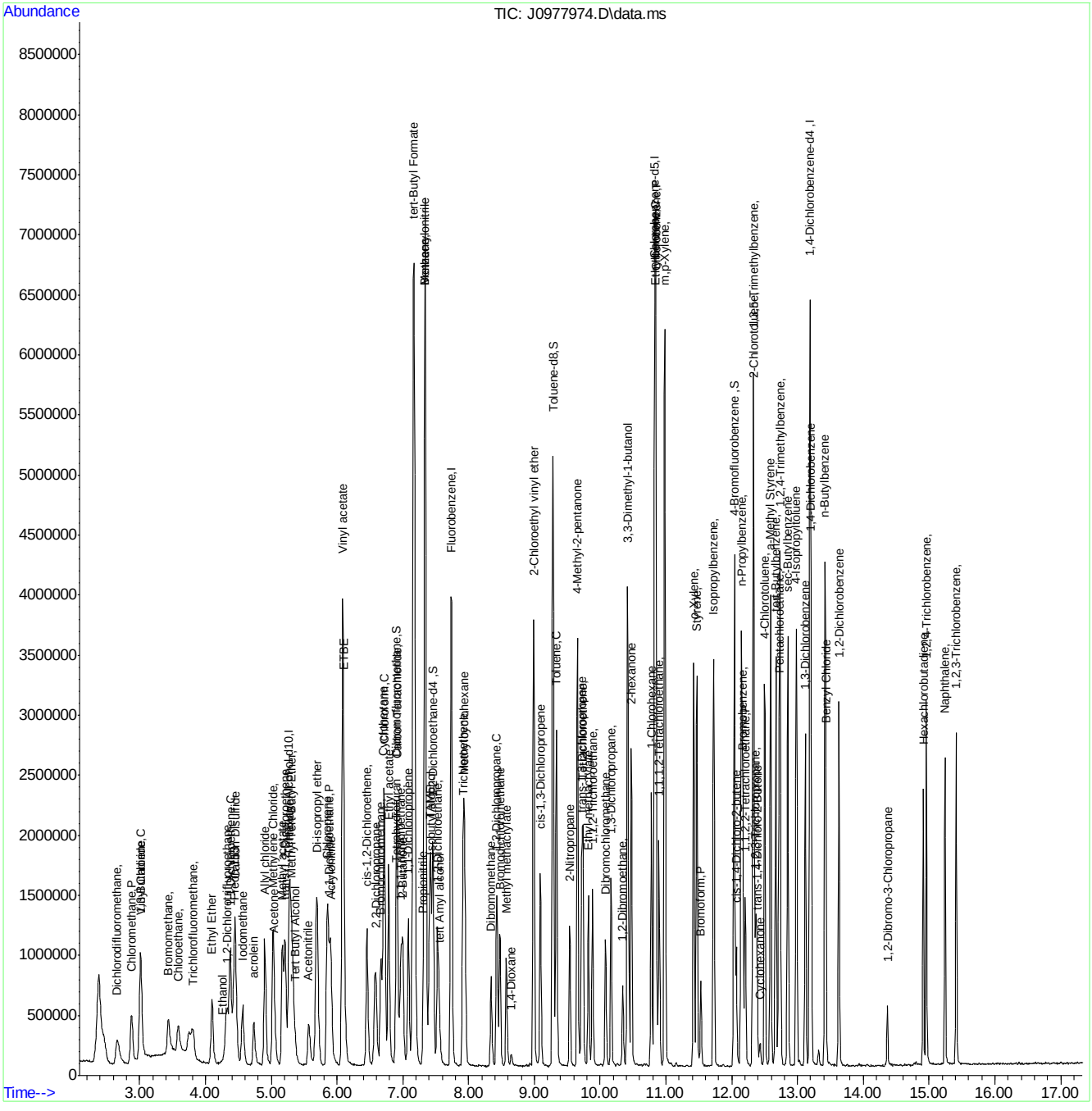
7

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977974.D
Acq On : 12 Jul 2016 10:10 am
Operator : darshnap
Sample : ic5368-4 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 12 11:13:04 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration



SGS ACCUTEST FA35362

Manual Integration Approval Summary

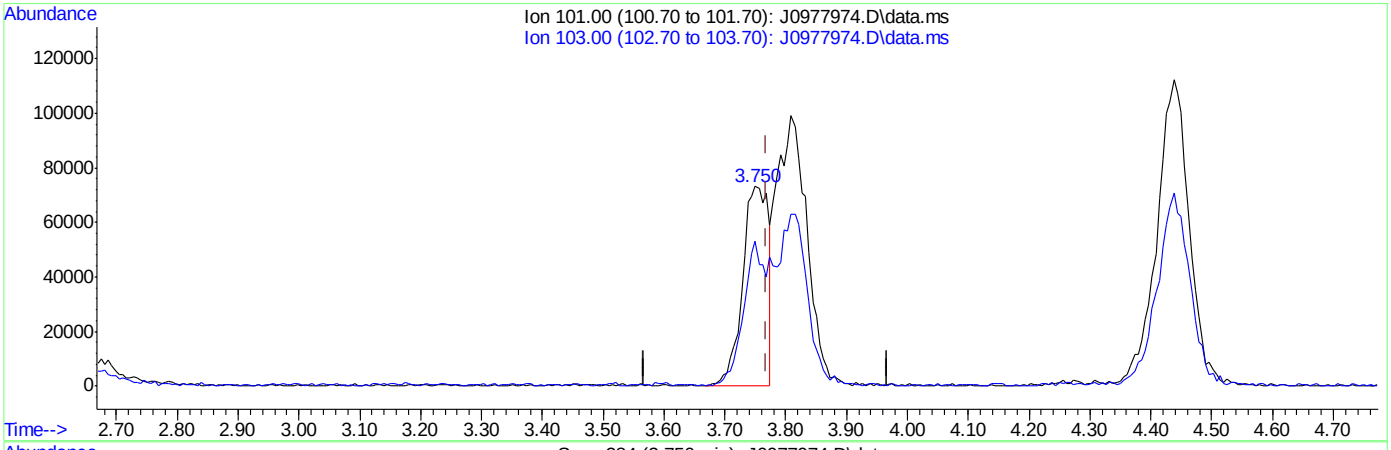
Sample Number:	VJ5368-IC5368	**Method:**	SW846 8260B
Lab FileID:	J0977974.D	**Analyst approved:**	07/12/16 14:17 Darshna Patel
Injection Time:	07/12/16 10:10	**Supervisor approved:**	07/13/16 14:14 Juan Garcia

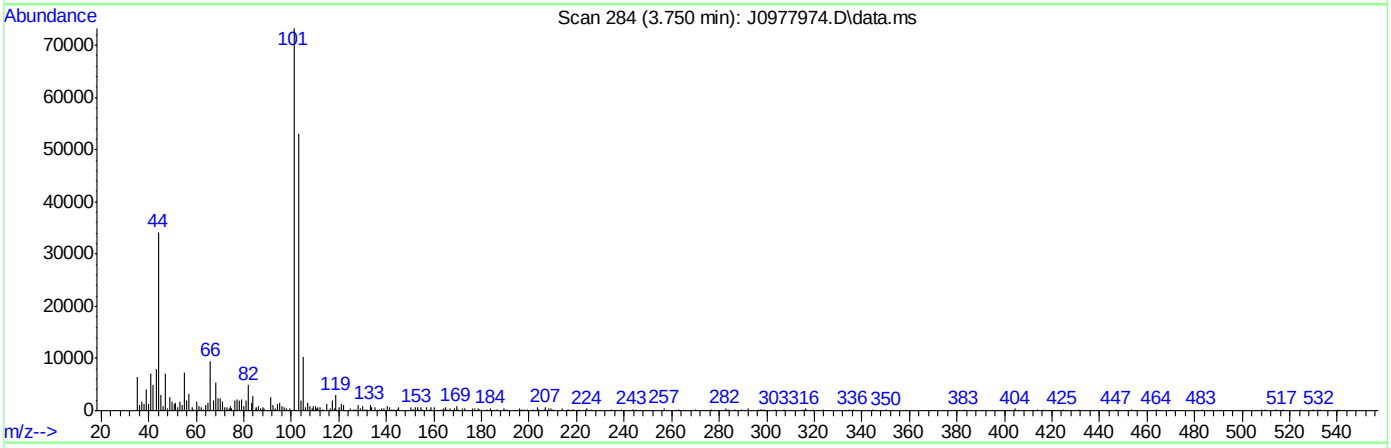
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977974.D
Acq On : 12 Jul 2016 10:10 am
Operator : darshnap
Sample : ic5368-4 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 12 11:10:10 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977974.D\data.ms

(8) Trichlorofluoromethane ( )

3.750min (-0.018) 6.53ug/L

response 217866

Ion	Exp%	Act%
101.00	100	100
103.00	59.20	71.89
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977974.D
Acq On : 12 Jul 2016 10:10 am
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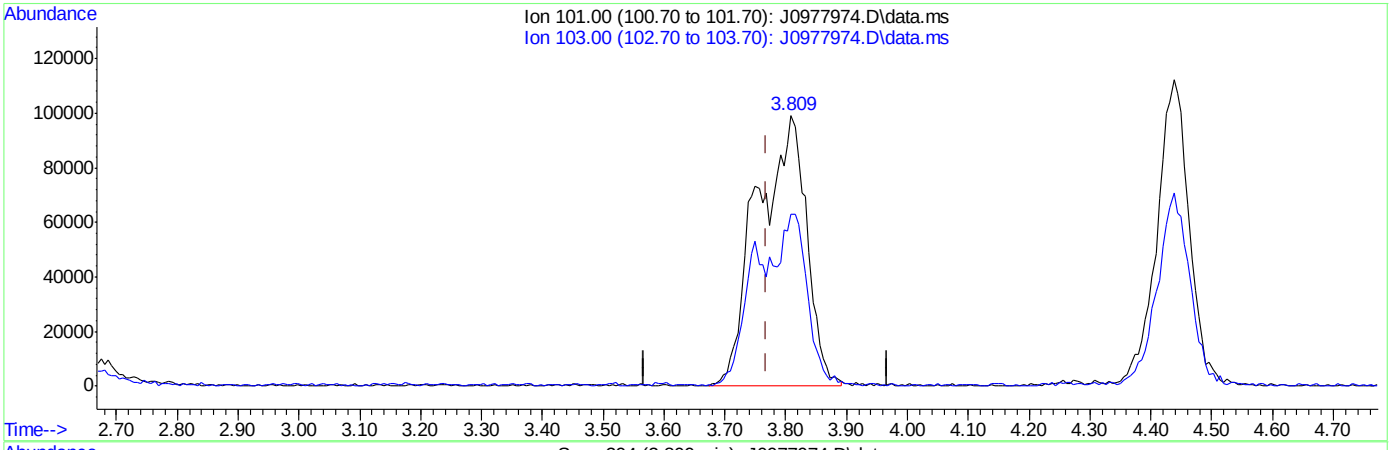
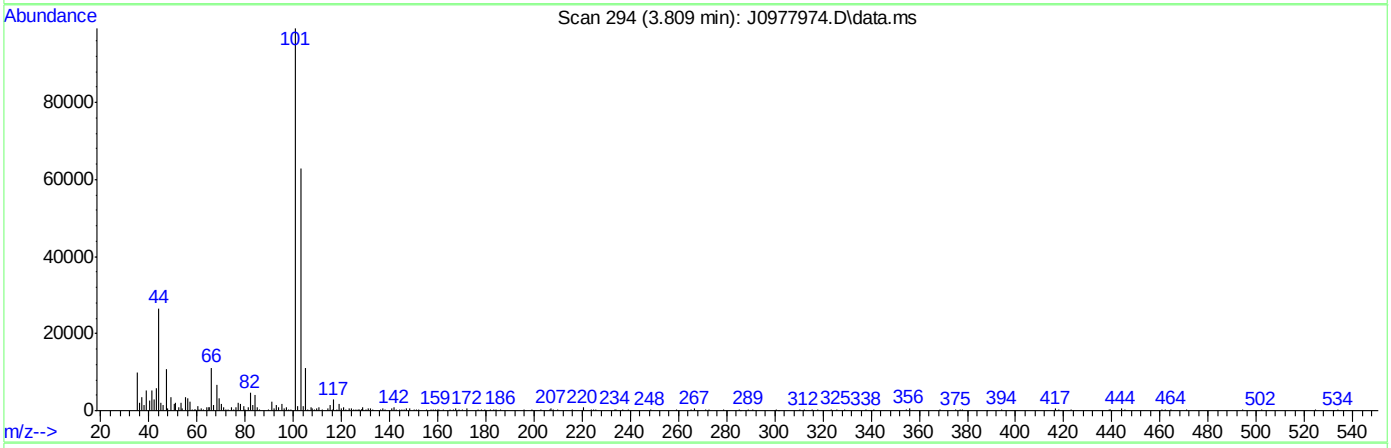
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977974.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.041) 16.72ug/L m

response 558083

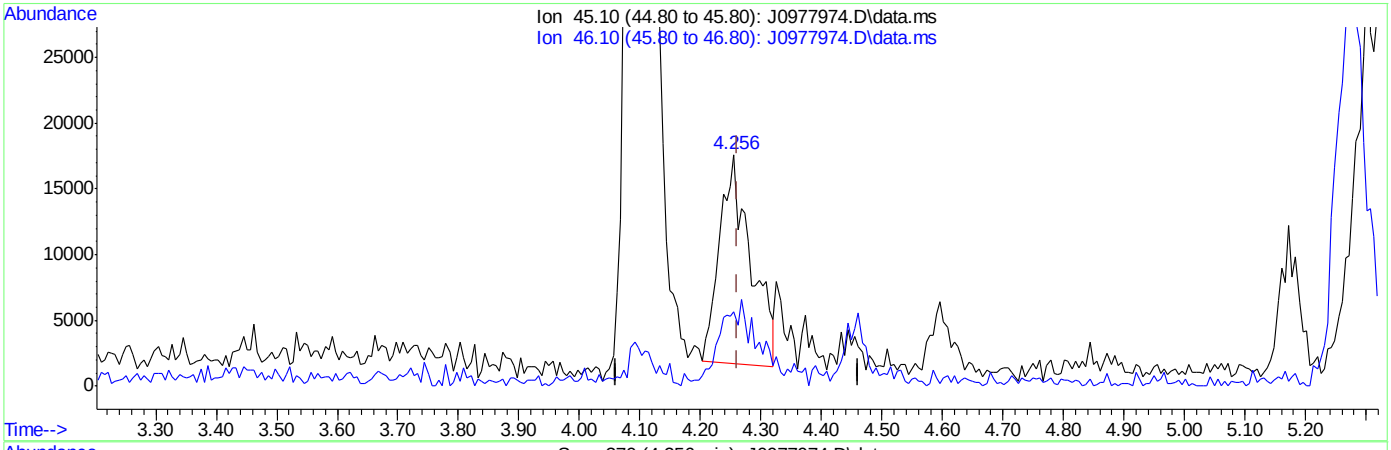
Ion	Exp%	Act%
101.00	100	100
103.00	59.20	63.34
0.00	0.00	0.00
0.00	0.00	0.00

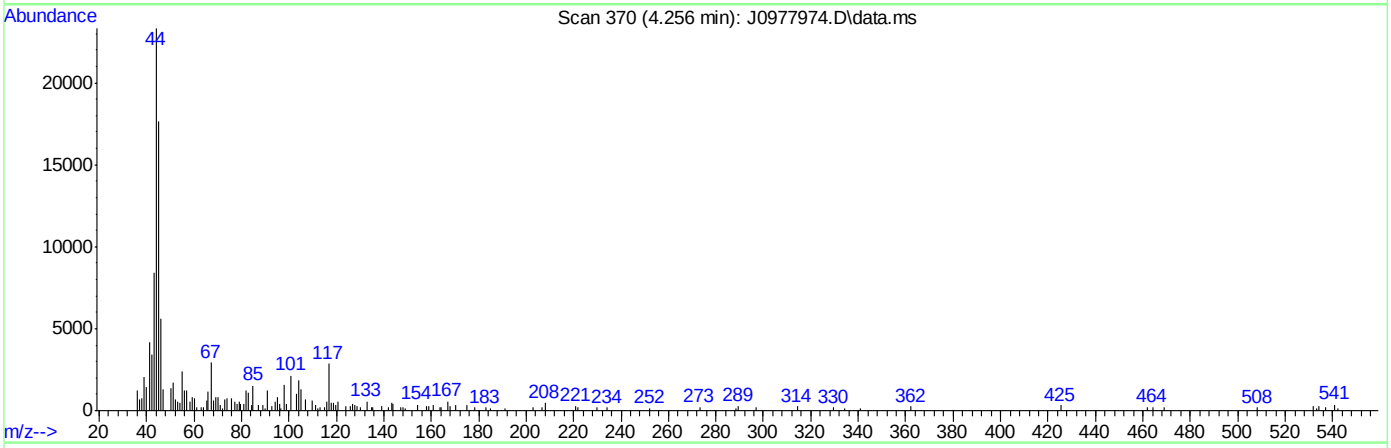
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977974.D
Acq On : 12 Jul 2016 10:10 am
Operator : darshnap
Sample : ic5368-4 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 12 11:10:10 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977974.D\data.ms

(107) Ethanol

4.256min (-0.005) 276.65ug/L

response 56991

Ion	Exp%	Act%
45.10	100	100
46.10	41.80	30.52
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977974.D
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Operator : darshnap
Sample : ic5368-4 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
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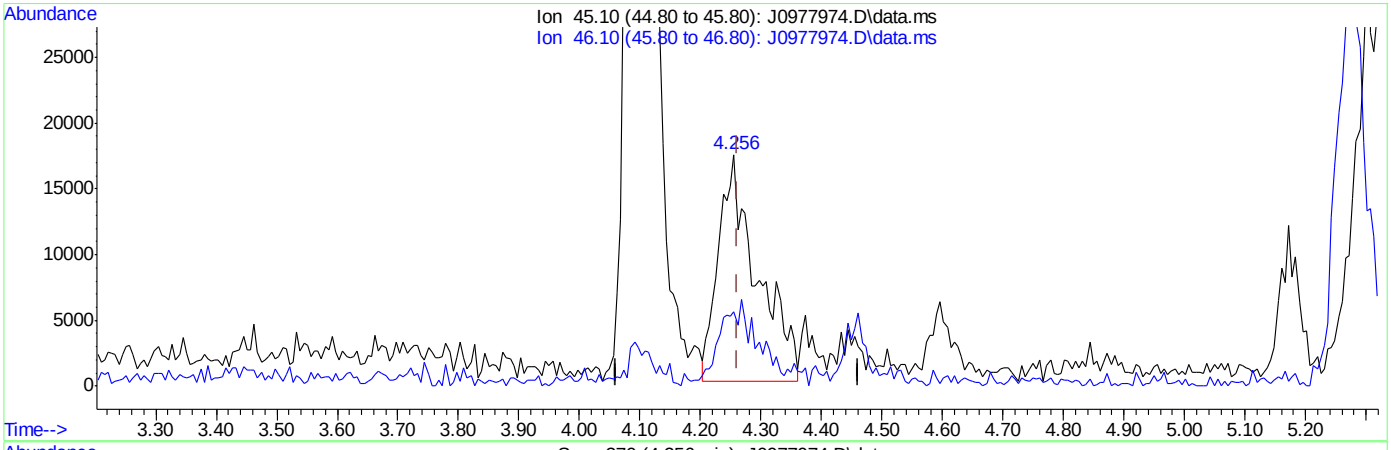
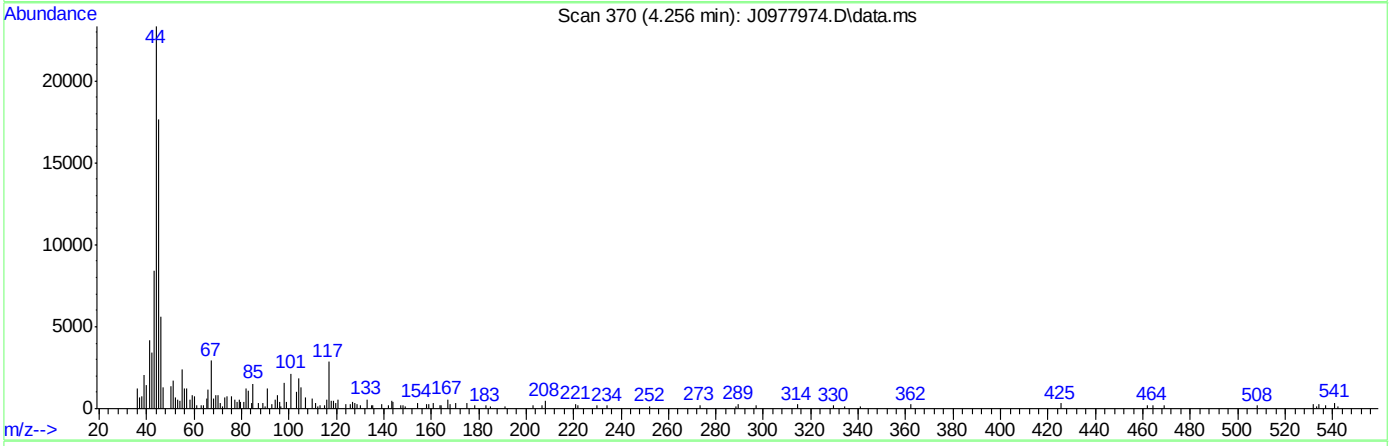
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





(107) Ethanol

4.256min (-0.005) 370.23ug/L m

response 76309

Ion	Exp%	Act%
45.10	100	100
46.10	41.80	31.98
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/13/16 14:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977975.D
Acq On : 12 Jul 2016 10:33 am
Operator : darshnap
Sample : icc5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 12 11:13:42 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	3153491	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	2206914	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	1232592	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	327267	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	820664	50.77	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.54%			
46) 1,2-Dichloroethane-d4	7.464	65	1120436	54.31	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 108.62%			
57) Toluene-d8	9.285	98	2967260	50.60	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.20%			
79) 4-Bromofluorobenzene	12.041	95	1303794	66.21	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 132.42%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	1010793	54.59	ug/L	100
3) Chloromethane	2.881	50	1107181	44.16	ug/L	96
4) Vinyl Chloride	3.028	62	880861	40.53	ug/L	98
5) 1,3-Butadiene	3.016	54	667515	40.84	ug/L	94
6) Bromomethane	3.445	94	455211	24.26	ug/L	96
7) Chloroethane	3.592	64	447575	30.69	ug/L	96
8) Trichlorofluoromethane	3.809	101	981114m	29.67	ug/L	
9) Ethyl Ether	4.103	59	667779	45.50	ug/L	93
10) 1,2-Dichlorotrifluoroe...	4.332	67	851905	44.66	ug/L	87
11) 1,1-Dichloroethene	4.379	61	1161821	44.39	ug/L	97
12) Freon 113	4.444	101	713326	43.87	ug/L	89
13) Carbon Disulfide	4.455	76	2479188	47.91	ug/L	99
14) Iodomethane	4.567	142	1162422	41.08	ug/L	92
15) Allyl chloride	4.908	41	1320968	53.18	ug/L	96
16) Methylene Chloride	5.031	49	1110225	36.56	ug/L	96
17) Acetone	5.049	58	278965	224.94	ug/L #	83
18) Methyl acetate	5.172	74	555880	262.60	ug/L	96
19) trans-1,2-Dichloroethene	5.213	61	1062218	45.46	ug/L	97
20) Hexane	5.278	56	729471	44.24	ug/L	90
21) Methyl Tert Butyl Ether	5.313	73	2298939	52.76	ug/L	96
22) Acetonitrile	5.572	40	427449	492.22	ug/L	89
23) Di-isopropyl ether	5.695	45	2814491	42.87	ug/L	97
24) Chloroprene	5.854	53	1308363	44.96	ug/L	98
25) 1,1-Dichloroethane	5.883	63	1377713	45.18	ug/L	96
26) Acrylonitrile	5.907	53	1251964	234.70	ug/L	97
27) ETBE	6.101	59	2649394	46.98	ug/L	98
28) Vinyl acetate	6.089	43	6472144	195.16	ug/L	95
29) cis-1,2-Dichloroethene	6.459	96	834676	43.27	ug/L	95
30) 2,2-Dichloropropane	6.588	77	1196113	54.77	ug/L	97
31) Bromochloromethane	6.670	128	359558	42.28	ug/L #	85
32) Cyclohexane	6.717	56	1405902	45.16	ug/L	87
33) Chloroform	6.717	83	1376392	41.39	ug/L	96
34) Ethyl acetate	6.788	43	2888973	225.82	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977975.D
Acq On : 12 Jul 2016 10:33 am
Operator : darshnap
Sample : icc5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 12 11:13:42 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35)	Tetrahydrofuran	6.900	42	200832	46.21 ug/L	90
37)	Carbon Tetrachloride	6.917	117	1026196m	47.67 ug/L	
38)	1,1,1-Trichloroethane	6.976	97	1240011	45.25 ug/L	81
39)	2-Butanone	7.005	43	1384886	233.03 ug/L	98
40)	1,1-Dichloropropene	7.088	75	1009471	45.05 ug/L	93
41)	tert-Butyl Formate	7.170	59	6100155	670.37 ug/L #	64
42)	Propionitrile	7.311	54	852023	445.08 ug/L	91
43)	Methacrylonitrile	7.340	41	3595700	414.97 ug/L	96
44)	Benzene	7.340	78	2664841	40.50 ug/L	96
45)	TAME	7.417	73	2308908	49.68 ug/L	91
47)	1,2-Dichloroethane	7.528	62	1091944	44.03 ug/L	99
48)	Trichloroethene	7.916	95	732418	43.98 ug/L	95
49)	Methylcyclohexane	7.940	83	1334493	47.15 ug/L	98
50)	Dibromomethane	8.345	93	457961	46.14 ug/L	95
51)	1,2-Dichloropropane	8.433	63	784356	44.28 ug/L	98
52)	Bromodichloromethane	8.474	83	1036843	46.42 ug/L	97
53)	Methyl methacrylate	8.574	41	655349	51.78 ug/L	97
54)	2-Chloroethyl vinyl ether	8.991	63	2076863	223.15 ug/L	95
55)	cis-1,3-Dichloropropene	9.091	75	1228260	49.16 ug/L	91
58)	Toluene	9.338	91	2823354	41.29 ug/L	94
59)	2-Nitropropane	9.538	41	990829	307.18 ug/L	94
60)	4-Methyl-2-pentanone	9.655	43	2980597	216.24 ug/L	90
61)	trans-1,3-Dichloropropene	9.720	75	1058399	50.97 ug/L	93
62)	Tetrachloroethene	9.738	166	747800	39.82 ug/L	91
63)	Ethyl methacrylate	9.820	69	949816	54.52 ug/L	91
64)	1,1,2-Trichloroethane	9.884	83	540838	46.35 ug/L	90
65)	Dibromochloromethane	10.084	129	715973	48.37 ug/L	98
66)	1,3-Dichloropropane	10.166	76	1161567	47.26 ug/L	95
67)	1,2-Dibromoethane	10.343	107	658250	48.87 ug/L	98
68)	2-hexanone	10.472	43	2151932	222.29 ug/L	94
69)	1-Chlorohexane	10.777	91	1014538	47.35 ug/L	90
70)	Ethylbenzene	10.848	91	2976541	37.49 ug/L	89
71)	Chlorobenzene	10.848	112	1740667	39.52 ug/L	99
72)	1,1,1,2-Tetrachloroethane	10.901	131	704851	44.01 ug/L	97
73)	m,p-Xylene	10.983	91	4320986	74.57 ug/L	84
74)	o-Xylene	11.424	91	2647534	44.03 ug/L	95
75)	Styrene	11.471	104	2035875	44.65 ug/L	95
76)	Bromoform	11.530	173	430385	47.14 ug/L	95
77)	Isopropylbenzene	11.723	105	3010054	42.20 ug/L	91
80)	cis-1,4-Dichloro-2-butene	12.070	53	287168	61.69 ug/L	88
81)	n-Propylbenzene	12.146	91	3507663	42.91 ug/L	90
82)	Bromobenzene	12.170	156	770643	39.80 ug/L	93
83)	1,1,2,2-Tetrachloroethane	12.205	83	843034	50.00 ug/L	94
84)	1,3,5-Trimethylbenzene	12.329	105	2622674	44.29 ug/L	88
85)	2-Chlorotoluene	12.335	91	2530011	44.11 ug/L	98
86)	trans-1,4-Dichloro-2-B...	12.387	53	262824	59.34 ug/L #	83
87)	1,2,3-Trichloropropane	12.364	110	232716	52.32 ug/L	93
88)	Cyclohexanone	12.429	55	98999	208.82 ug/L	79
89)	4-Chlorotoluene	12.499	91	2474104	45.23 ug/L	98
90)	a-Methyl Styrene	12.593	118	1466037	44.92 ug/L	98

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977975.D
Acq On : 12 Jul 2016 10:33 am
Operator : darshnap
Sample : icc5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 12 11:13:42 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	1692246	51.36	ug/L		98
92)	1,2,4-Trimethylbenzene	12.740	105	2659119	44.17	ug/L		100
93)	Pentachloroethane	12.722	167	412622	44.95	ug/L		96
94)	sec-Butylbenzene	12.852	105	3235676	42.76	ug/L		94
95)	4-Isopropyltoluene	12.987	119	2750074	42.54	ug/L		93
96)	1,3-Dichlorobenzene	13.122	146	1477479	38.51	ug/L		87
97)	1,4-Dichlorobenzene	13.204	146	1495510	36.99	ug/L		92
98)	n-Butylbenzene	13.416	92	1807274	49.39	ug/L		85
99)	Benzyl Chloride	13.433	126	337950	62.19	ug/L	#	74
100)	1,2-Dichlorobenzene	13.627	146	1442141	39.41	ug/L		86
101)	1,2-Dibromo-3-Chloropr...	14.367	75	167795	68.29	ug/L	#	76
102)	Hexachlorobutadiene	14.914	225	492390	36.75	ug/L		95
103)	1,2,4-Trichlorobenzene	14.961	180	1047952	39.43	ug/L		93
104)	Naphthalene	15.243	128	2181094	55.96	ug/L		92
105)	1,2,3-Trichlorobenzene	15.413	180	972785	44.51	ug/L		94
107)	Ethanol	4.261	45	122192m	595.40	ug/L		
108)	acrolein	4.737	56	575238	173.62	ug/L		86
109)	Tert Butyl Alcohol	5.360	59	636540	384.53	ug/L		88
110)	tert Amyl alcohol	7.558	59	529094	407.04	ug/L	#	86
111)	Isobutyl alcohol	7.434	42	399606	579.37	ug/L	#	78
112)	1,4-Dioxane	8.651	88	93597	503.02	ug/L		95
113)	3,3-Dimethyl-1-butanol	10.419	57	2372797	1488.66	ug/L		91

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

7.6.5

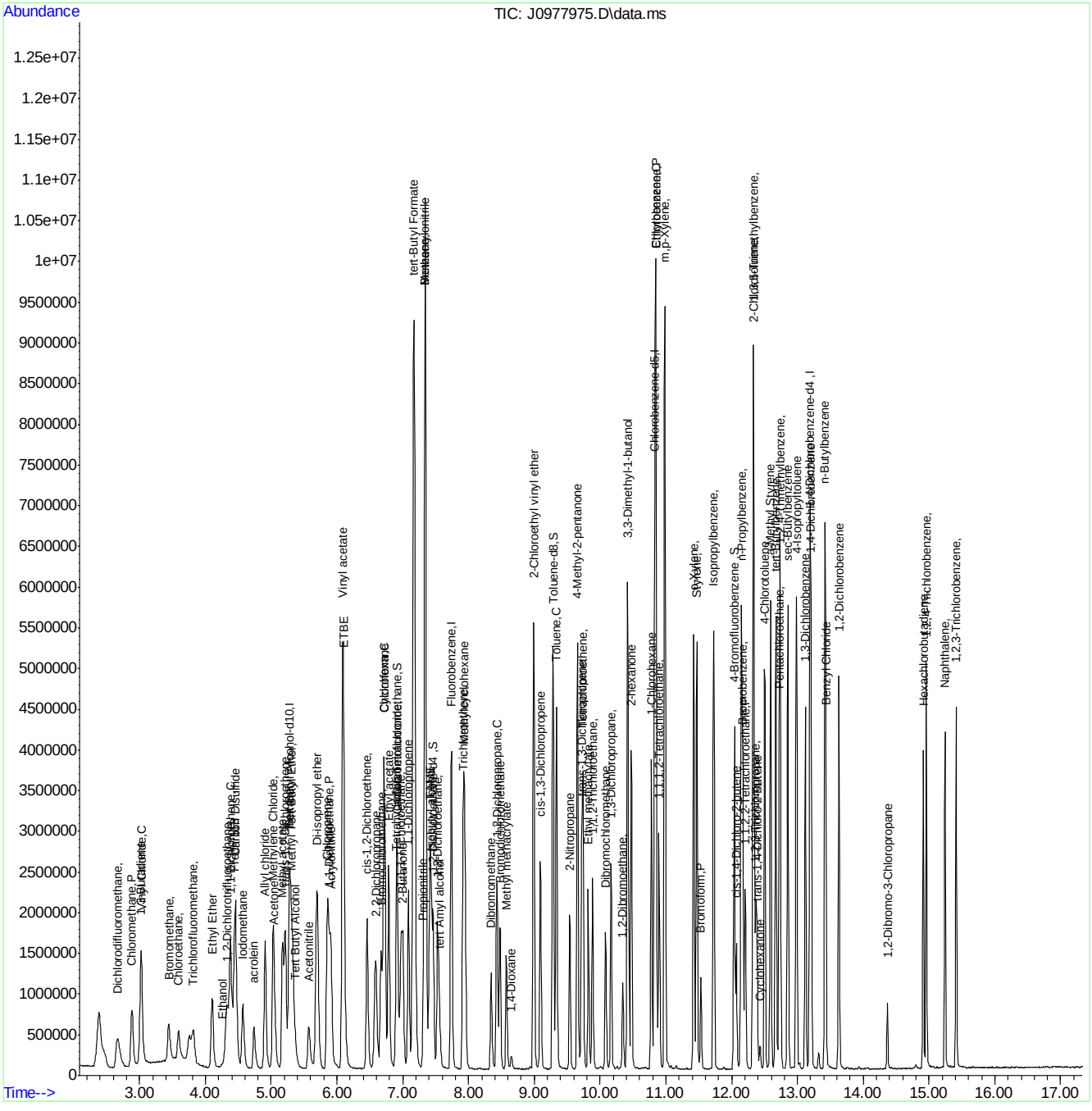
7

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977975.D
Acq On : 12 Jul 2016 10:33 am
Operator : darshnap
Sample : icc5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 12 11:13:42 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration



MSJ071216a.M Tue Jul 12 14:12:11 2016 Page: 4

Manual Integration Approval Summary

Sample Number:	VJ5368-ICC5368	**Method:**	SW846 8260B
Lab FileID:	J0977975.D	**Analyst approved:**	07/12/16 14:17 Darshna Patel
Injection Time:	07/12/16 10:33	**Supervisor approved:**	07/13/16 14:14 Juan Garcia

Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977975.D
Acq On : 12 Jul 2016 10:33 am
Operator : darshnap
Sample : icc5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 12 11:10:13 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
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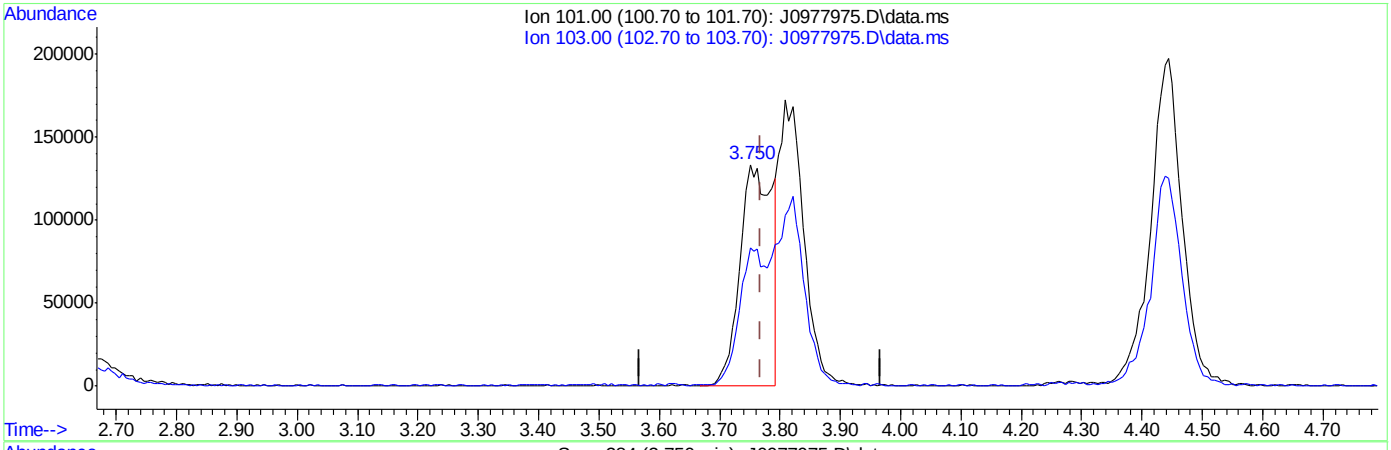
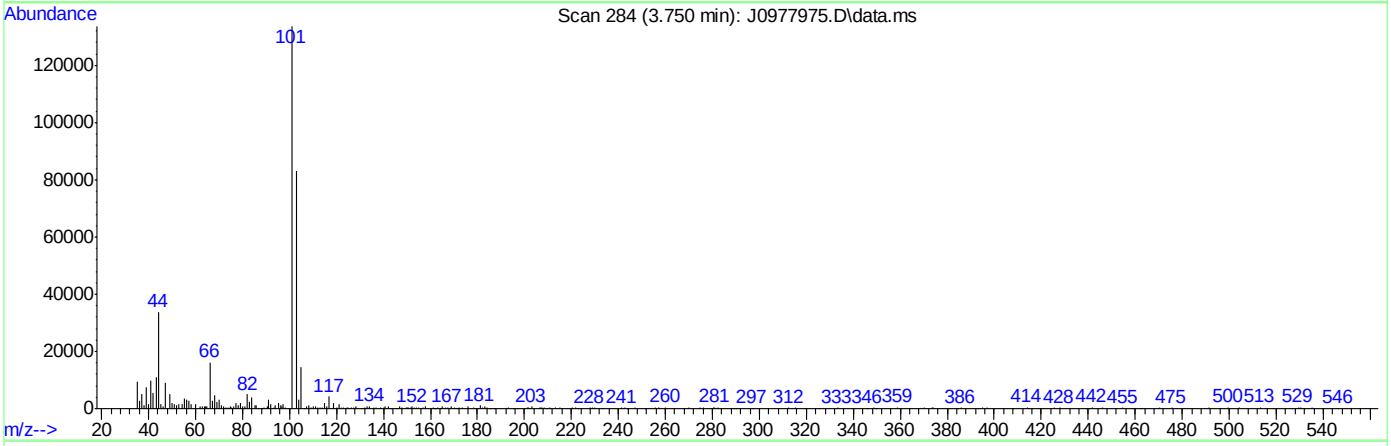
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977975.D\data.ms

(8) Trichlorofluoromethane ( )

3.750min (-0.018) 14.83ug/L

response 490357

Ion	Exp%	Act%
101.00	100	100
103.00	59.20	61.72
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977975.D
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Sample : icc5368-5 Inst : MSVOA6
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QLast Update : Fri Jul 08 08:13:09 2016
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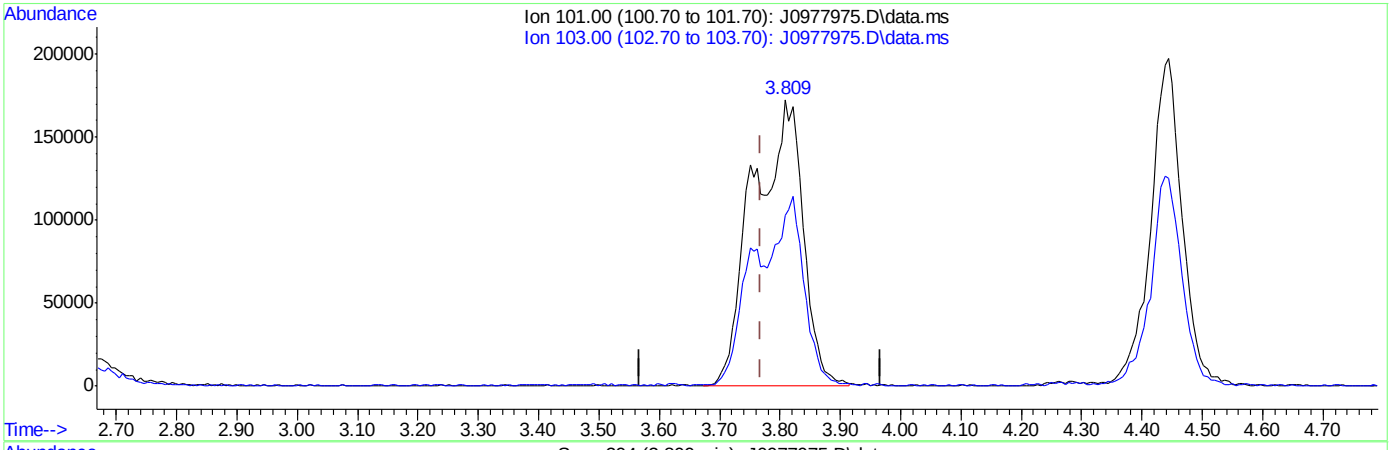

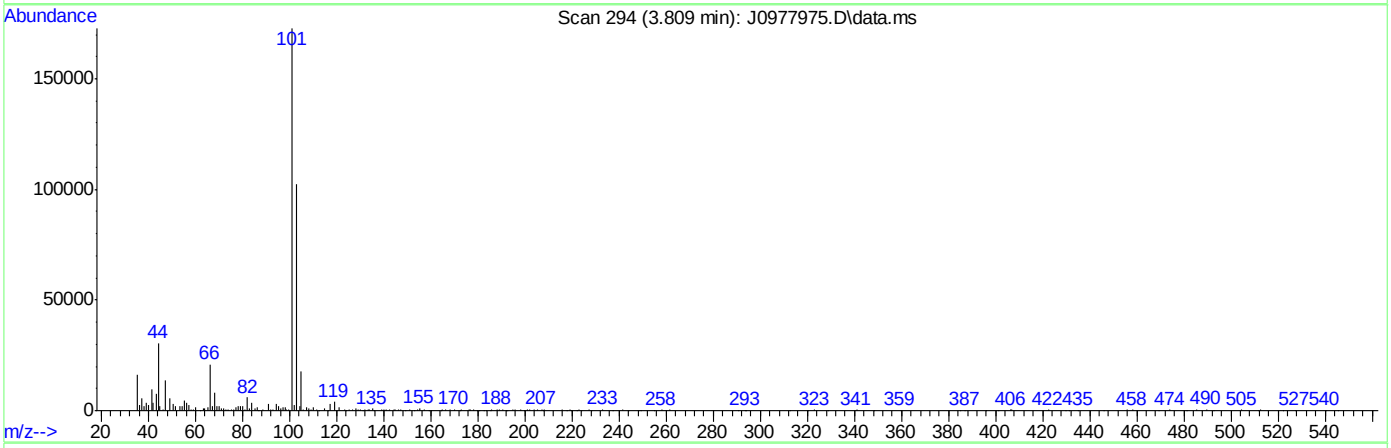

TIC: J0977975.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.041) 29.67ug/L m

response 981114

Ion	Exp%	Act%
101.00	100	100
103.00	59.20	59.37
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977975.D
Acq On : 12 Jul 2016 10:33 am
Operator : darshnap
Sample : icc5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
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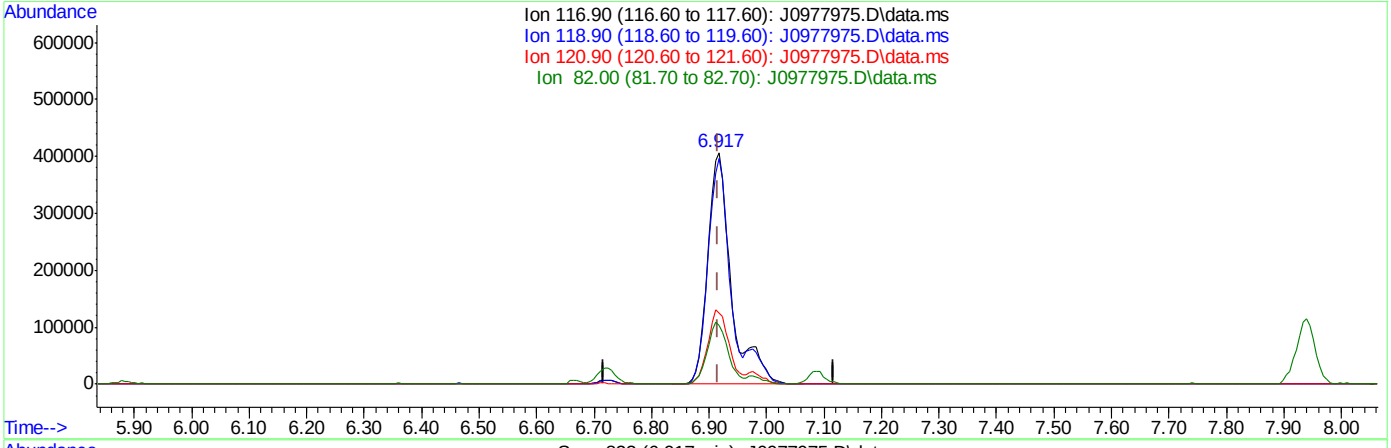

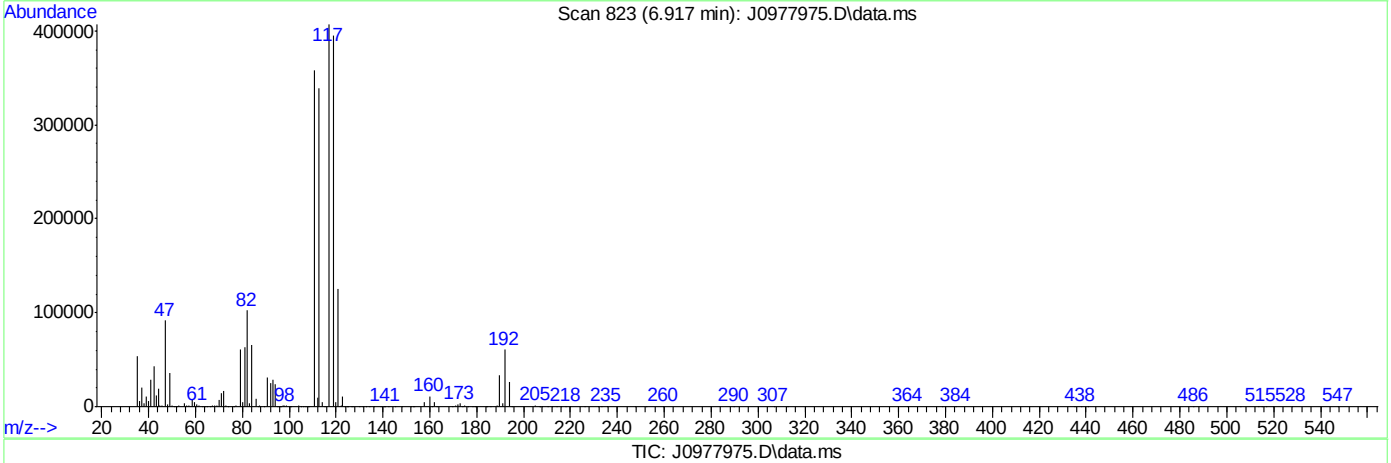

TIC: J0977975.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 54.35ug/L

response 1170035

Ion	Exp%	Act%
116.90	100	100
118.90	99.70	97.16
120.90	25.70	30.74
82.00	26.30	25.02

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977975.D
Acq On : 12 Jul 2016 10:33 am
Operator : darshnap
Sample : icc5368-5 Inst : MSVOA6
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Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
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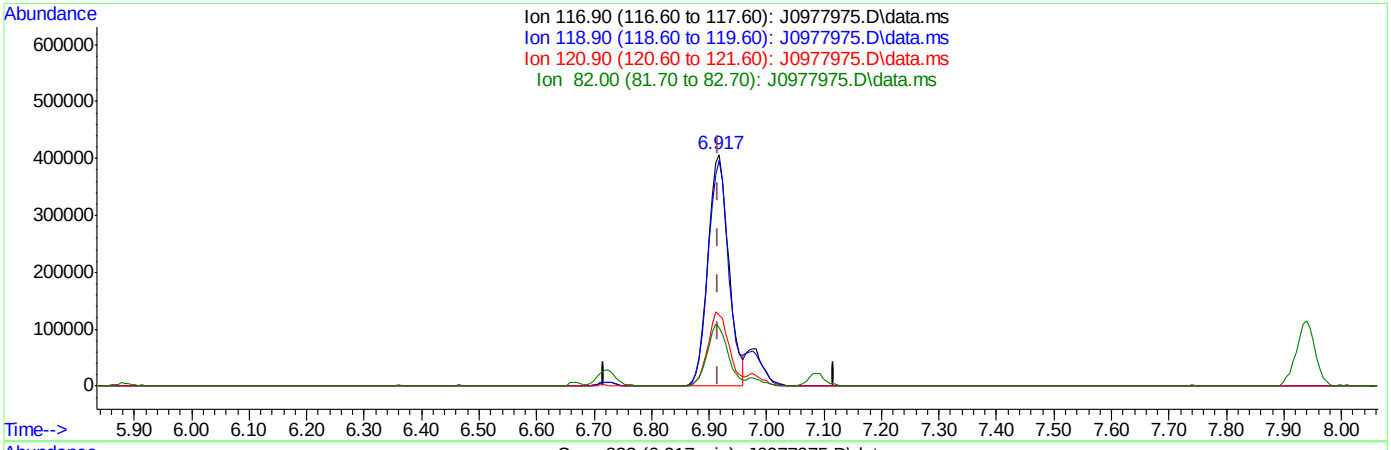

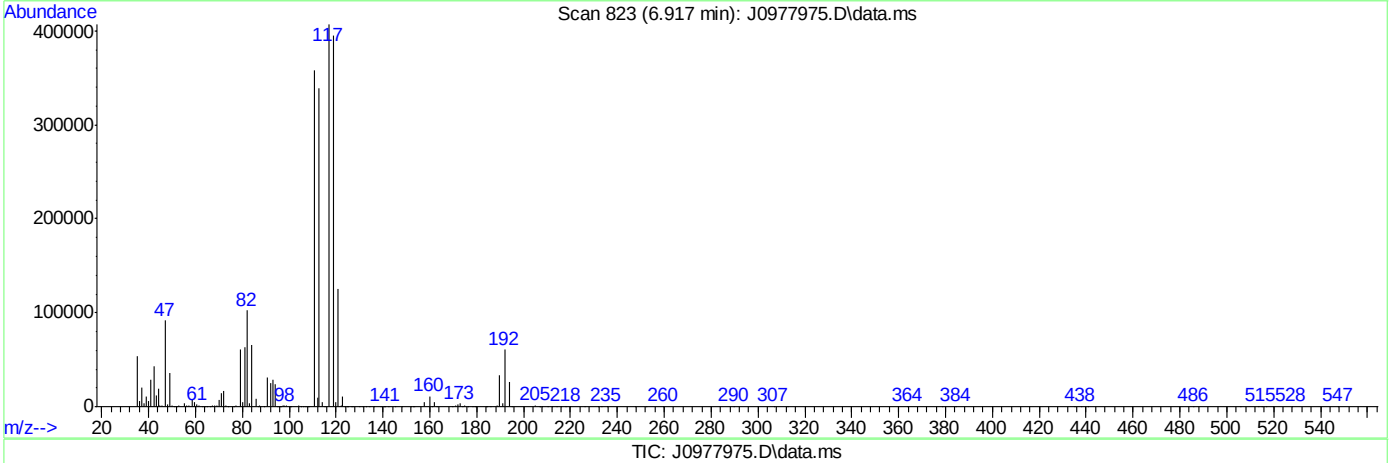

TIC: J0977975.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 47.67ug/L m

response 1026196

Ion	Exp%	Act%
116.90	100	100
118.90	99.70	97.20
120.90	25.70	30.74
82.00	26.30	25.13

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977975.D
Acq On : 12 Jul 2016 10:33 am
Operator : darshnap
Sample : icc5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
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Quant Time: Jul 12 11:10:13 2016
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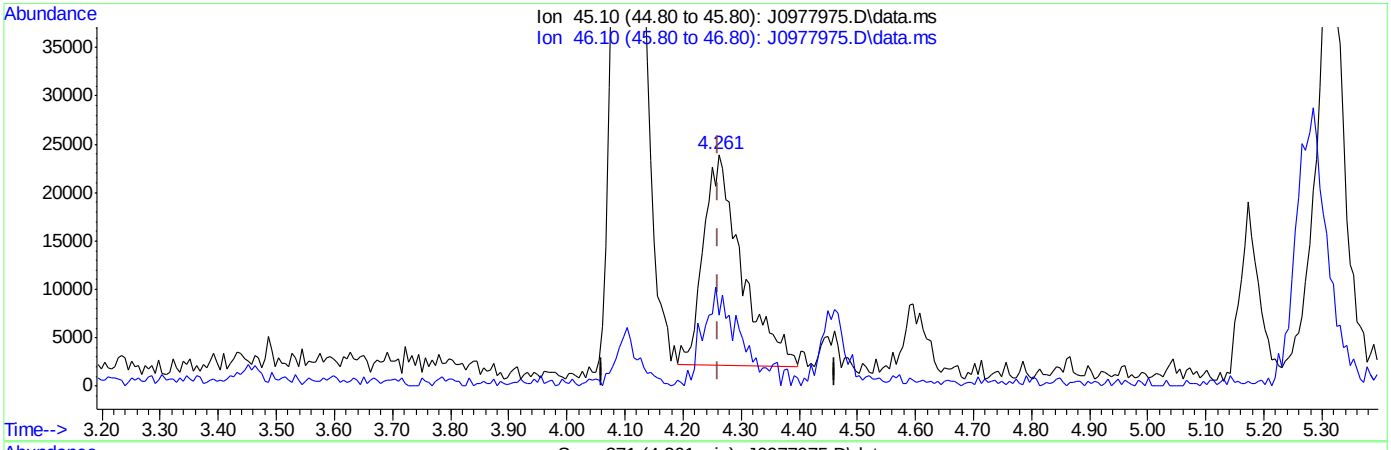
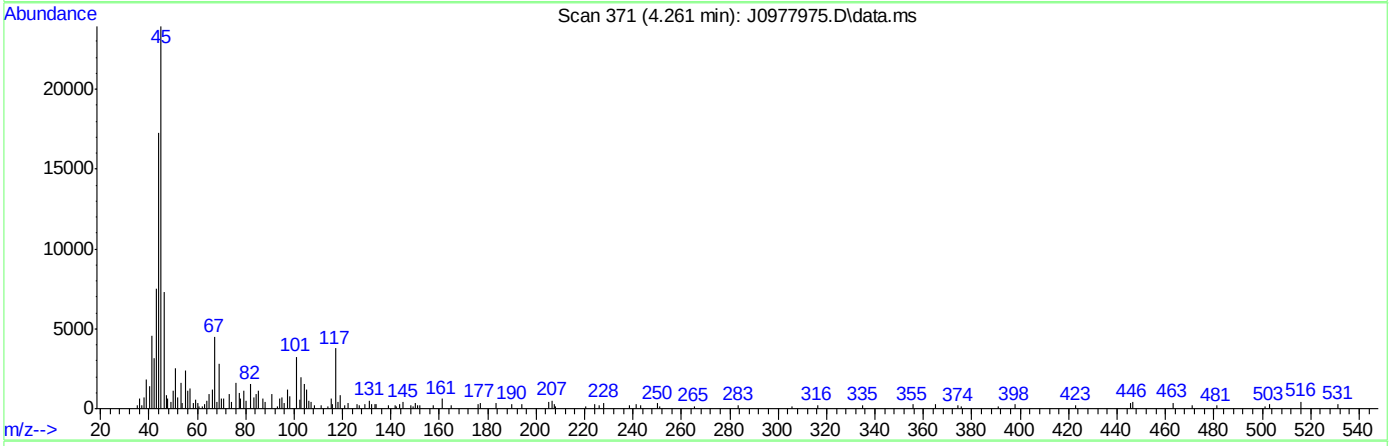
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977975.D\data.ms

(107) Ethanol

4.261min (+0.000) 488.23ug/L

response 100138

Ion	Exp%	Act%
45.10	100	100
46.10	41.80	31.02
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977975.D
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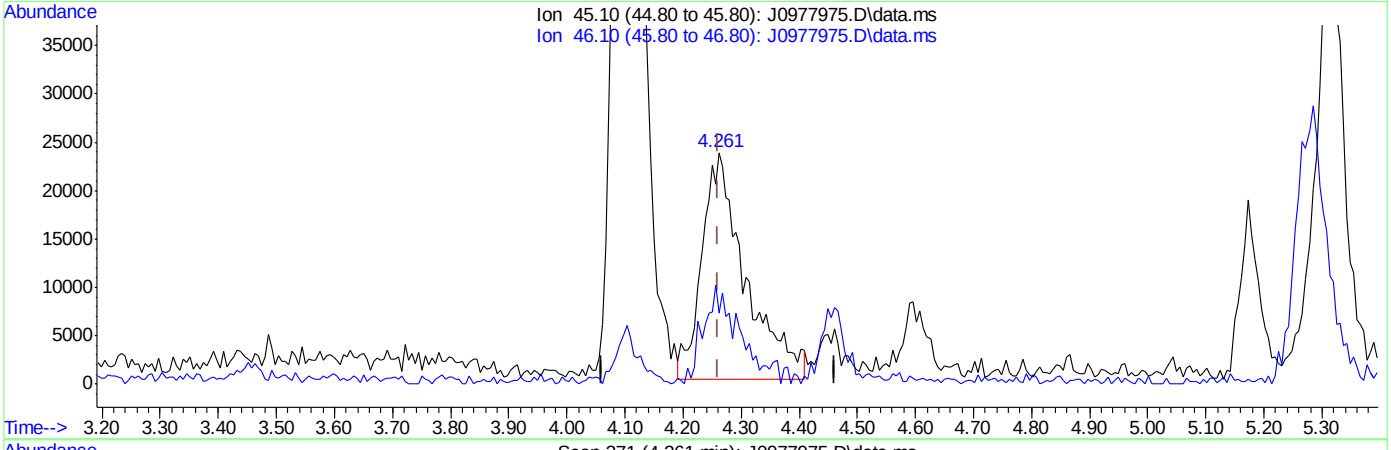
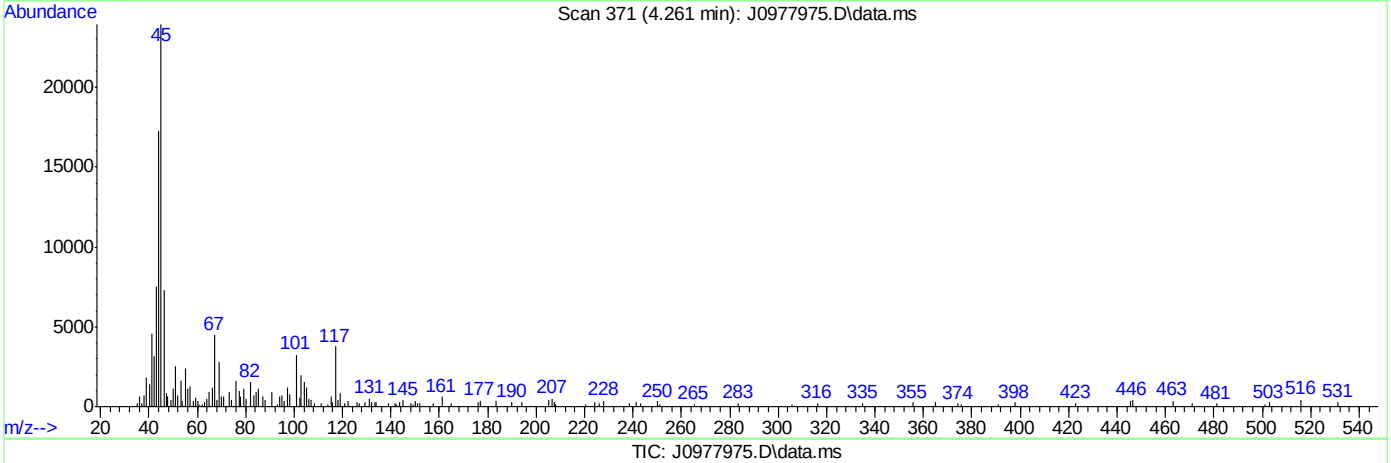
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977975.D\data.ms

(107) Ethanol

4.261min (+0.000) 595.40ug/L m

response 122192

Ion	Exp%	Act%
45.10	100	100
46.10	41.80	30.50
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/13/16 14:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977976.D
Acq On : 12 Jul 2016 10:56 am
Operator : darshnap
Sample : ic5368-6 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 11:15:32 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	3173794	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	2160072	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.187	152	1247343	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	326148	250.00	ug/L	-0.02
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	812064	49.92	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.84%			
46) 1,2-Dichloroethane-d4	7.464	65	1113693	53.64	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 107.28%			
57) Toluene-d8	9.285	98	2977298	51.87	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 103.74%			
79) 4-Bromofluorobenzene	12.035	95	1313943	65.94	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 131.88%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	1643534	86.74	ug/L	97
3) Chloromethane	2.887	50	1825494	72.34	ug/L	92
4) Vinyl Chloride	3.034	62	1433250	64.06	ug/L	98
5) 1,3-Butadiene	3.022	54	1152554	73.30	ug/L	91
6) Bromomethane	3.445	94	701424	37.15	ug/L	98
7) Chloroethane	3.592	64	655434	45.88	ug/L	96
8) Trichlorofluoromethane	3.809	101	1609271m	48.36	ug/L	
9) Ethyl Ether	4.109	59	1096963	74.26	ug/L	94
10) 1,2-Dichlorotrifluoroe...	4.332	67	1407522	73.31	ug/L	93
11) 1,1-Dichloroethene	4.379	61	1858488	70.55	ug/L	96
12) Freon 113	4.438	101	1130782	69.10	ug/L	89
13) Carbon Disulfide	4.455	76	3885050	74.60	ug/L	99
14) Iodomethane	4.567	142	1916951	67.30	ug/L	91
15) Allyl chloride	4.908	41	2305946	92.24	ug/L	96
16) Methylene Chloride	5.031	49	1831168	64.11	ug/L	93
17) Acetone	5.049	58	491893	393.97	ug/L	88
18) Methyl acetate	5.178	74	925594	434.46	ug/L #	91
19) trans-1,2-Dichloroethene	5.213	61	1737910	74.23	ug/L	97
20) Hexane	5.284	56	1167583	70.35	ug/L	88
21) Methyl Tert Butyl Ether	5.319	73	3797019	86.59	ug/L	94
22) Acetonitrile	5.572	40	804033	919.56	ug/L	92
23) Di-isopropyl ether	5.701	45	4577391	69.27	ug/L	97
24) Chloroprene	5.854	53	2225544	75.98	ug/L	97
25) 1,1-Dichloroethane	5.883	63	2199370	72.12	ug/L	100
26) Acrylonitrile	5.907	53	2184337	406.86	ug/L	95
27) ETBE	6.101	59	4260053	74.85	ug/L	99
28) Vinyl acetate	6.089	43	9129715	273.53	ug/L	78
29) cis-1,2-Dichloroethene	6.459	96	1381110	71.14	ug/L	93
30) 2,2-Dichloropropane	6.588	77	1927530	87.78	ug/L	95
31) Bromochloromethane	6.670	128	604649	70.65	ug/L #	84
32) Cyclohexane	6.718	56	2235163	71.34	ug/L	88
33) Chloroform	6.723	83	2251025	67.27	ug/L	93
34) Ethyl acetate	6.788	43	4734472	367.70	ug/L	95

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977976.D
Acq On : 12 Jul 2016 10:56 am
Operator : darshnap
Sample : ic5368-6 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 11:15:32 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.900	42	334942	76.58 ug/L	92
37) Carbon Tetrachloride	6.917	117	1661807m	76.70 ug/L	
38) 1,1,1-Trichloroethane	6.976	97	2043192	74.08 ug/L	85
39) 2-Butanone	7.005	43	2390003	399.58 ug/L	97
40) 1,1-Dichloropropene	7.088	75	1635590	72.52 ug/L	96
41) tert-Butyl Formate	7.176	59	9104342	966.46 ug/L #	66
42) Propionitrile	7.317	54	1518419	791.70 ug/L	94
43) Methacrylonitrile	7.346	41	5476953	650.25 ug/L	90
44) Benzene	7.340	78	4163397	62.86 ug/L	96
45) TAME	7.417	73	3726746	79.68 ug/L	91
47) 1,2-Dichloroethane	7.528	62	1771292	70.96 ug/L	99
48) Trichloroethene	7.916	95	1177537	70.79 ug/L	97
49) Methylcyclohexane	7.940	83	2139970	75.12 ug/L	98
50) Dibromomethane	8.345	93	758501	77.64 ug/L	96
51) 1,2-Dichloropropane	8.433	63	1299106	72.87 ug/L	96
52) Bromodichloromethane	8.480	83	1746709	77.70 ug/L	94
53) Methyl methacrylate	8.574	41	1143928	89.81 ug/L	94
54) 2-Chloroethyl vinyl ether	8.991	63	3329671	355.47 ug/L	95
55) cis-1,3-Dichloropropene	9.091	75	2002135	79.62 ug/L	89
58) Toluene	9.338	91	4247806	63.47 ug/L	86
59) 2-Nitropropane	9.538	41	1631964	516.91 ug/L	94
60) 4-Methyl-2-pentanone	9.655	43	4627224	342.97 ug/L	80
61) trans-1,3-Dichloropropene	9.720	75	1691321	83.21 ug/L	95
62) Tetrachloroethene	9.738	166	1126832	61.30 ug/L	95
63) Ethyl methacrylate	9.820	69	1608724	94.34 ug/L	92
64) 1,1,2-Trichloroethane	9.884	83	884263	77.18 ug/L	90
65) Dibromochloromethane	10.084	129	1185098	81.80 ug/L	99
66) 1,3-Dichloropropane	10.166	76	1862909	77.45 ug/L	95
67) 1,2-Dibromoethane	10.343	107	1078551	81.81 ug/L	98
68) 2-hexanone	10.472	43	3485035	367.81 ug/L	87
69) 1-Chlorohexane	10.778	91	1625469	77.49 ug/L	95
70) Ethylbenzene	10.848	91	4350600	55.98 ug/L	77
71) Chlorobenzene	10.848	112	2728523	63.28 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.901	131	1153473	73.59 ug/L	98
73) m,p-Xylene	10.983	91	5784264	101.98 ug/L	66
74) o-Xylene	11.424	91	3962436	67.33 ug/L	87
75) Styrene	11.471	104	3182420	71.30 ug/L	91
76) Bromoform	11.530	173	727771	81.44 ug/L	97
77) Isopropylbenzene	11.723	105	4375706	62.68 ug/L	84
80) cis-1,4-Dichloro-2-butene	12.070	53	523069	110.86 ug/L	85
81) n-Propylbenzene	12.147	91	4918759	59.46 ug/L	78
82) Bromobenzene	12.164	156	1281209	65.39 ug/L	94
83) 1,1,2,2-Tetrachloroethane	12.205	83	1393459	81.66 ug/L	99
84) 1,3,5-Trimethylbenzene	12.329	105	3918762	65.39 ug/L	79
85) 2-Chlorotoluene	12.335	91	3736676	64.37 ug/L	91
86) trans-1,4-Dichloro-2-B...	12.382	53	458038	102.19 ug/L #	56
87) 1,2,3-Trichloropropane	12.370	110	389033	89.89 ug/L	97
88) Cyclohexanone	12.429	55	178840	371.43 ug/L	81
89) 4-Chlorotoluene	12.499	91	3716773	67.15 ug/L	94
90) a-Methyl Styrene	12.593	118	2470669	74.80 ug/L	97

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977976.D
Acq On : 12 Jul 2016 10:56 am
Operator : darshnap
Sample : ic5368-6 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 11:15:32 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	2597811	77.91	ug/L	98
92) 1,2,4-Trimethylbenzene	12.734	105	3863276	63.42	ug/L	89
93) Pentachloroethane	12.722	167	801348	86.26	ug/L	96
94) sec-Butylbenzene	12.852	105	4662170	60.88	ug/L	83
95) 4-Isopropyltoluene	12.987	119	4010587	61.30	ug/L	84
96) 1,3-Dichlorobenzene	13.116	146	2385092	61.43	ug/L	85
97) 1,4-Dichlorobenzene	13.204	146	2396728	58.58	ug/L	90
98) n-Butylbenzene	13.416	92	2770244	74.81	ug/L #	75
99) Benzyl Chloride	13.433	126	561084	95.26	ug/L #	53
100) 1,2-Dichlorobenzene	13.627	146	2323317	62.73	ug/L	85
101) 1,2-Dibromo-3-Chloropr...	14.368	75	293480	118.04	ug/L #	70
102) Hexachlorobutadiene	14.914	225	818936	60.40	ug/L	94
103) 1,2,4-Trichlorobenzene	14.955	180	1702822	63.31	ug/L	92
104) Naphthalene	15.243	128	3375976	85.60	ug/L	86
105) 1,2,3-Trichlorobenzene	15.413	180	1574186	71.17	ug/L	94
107) Ethanol	4.261	45	218157m	1063.91	ug/L	
108) acrolein	4.743	56	1067220	323.22	ug/L	89
109) Tert Butyl Alcohol	5.360	59	1104591	656.45	ug/L	89
110) tert Amyl alcohol	7.558	59	899785	663.53	ug/L #	82
111) Isobutyl alcohol	7.434	42	726943	1079.72	ug/L #	87
112) 1,4-Dioxane	8.651	88	166900	913.92	ug/L	95
113) 3,3-Dimethyl-1-butanol	10.419	57	4018618	2393.80	ug/L	87

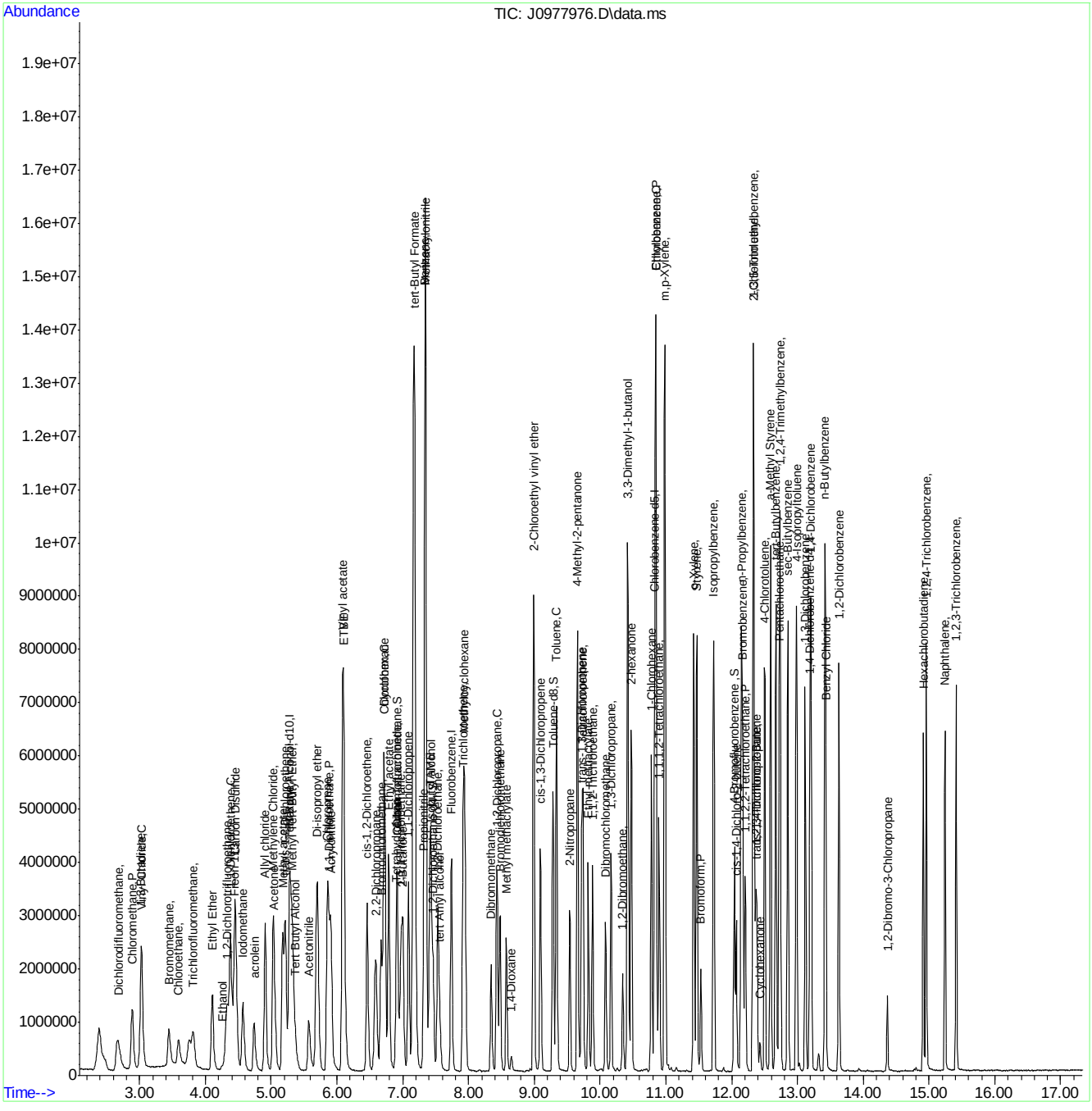
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977976.D
Acq On : 12 Jul 2016 10:56 am
Operator : darshnap
Sample : ic5368-6 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 11:15:32 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration



SGS ACCUTEST FA35362

Manual Integration Approval Summary

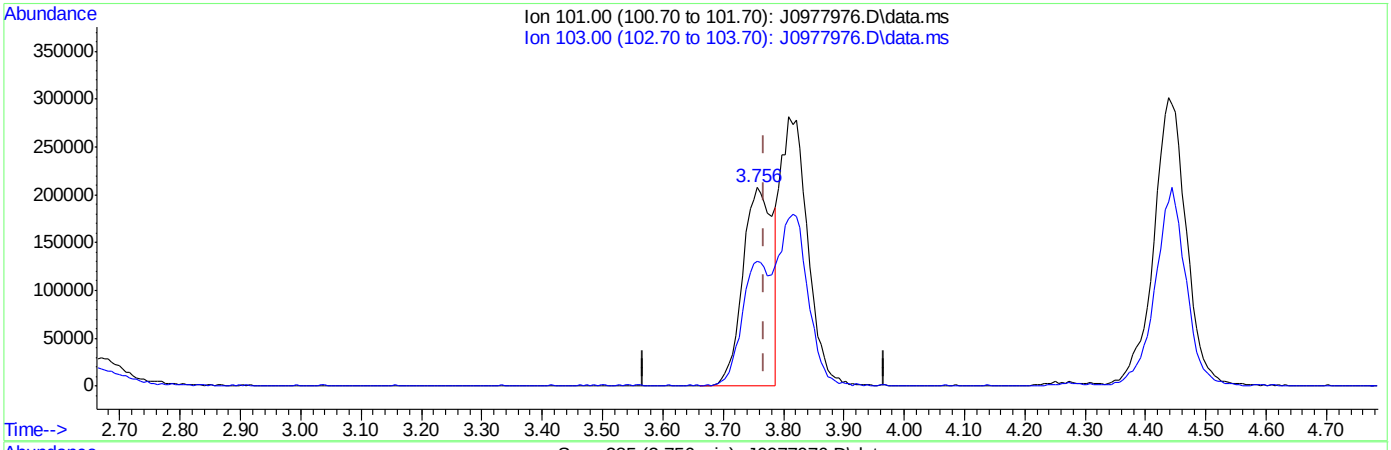
Sample Number:	VJ5368-IC5368	**Method:**	SW846 8260B
Lab FileID:	J0977976.D	**Analyst approved:**	07/12/16 14:17 Darshna Patel
Injection Time:	07/12/16 10:56	**Supervisor approved:**	07/13/16 14:14 Juan Garcia

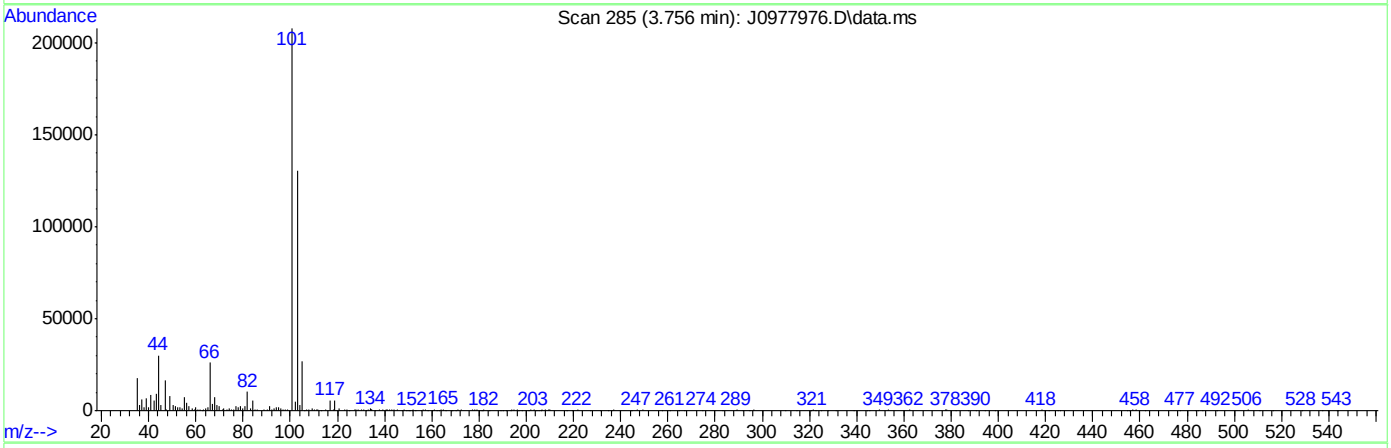
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977976.D
Acq On : 12 Jul 2016 10:56 am
Operator : darshnap
Sample : ic5368-6 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 11:15:06 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





TIC: J0977976.D\data.ms

(8) Trichlorofluoromethane ( )

3.756min (-0.012) 21.47ug/L

response 714412

Ion	Exp%	Act%
101.00	100	100
103.00	59.20	62.24
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977976.D
Acq On : 12 Jul 2016 10:56 am
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QLast Update : Fri Jul 08 08:13:09 2016
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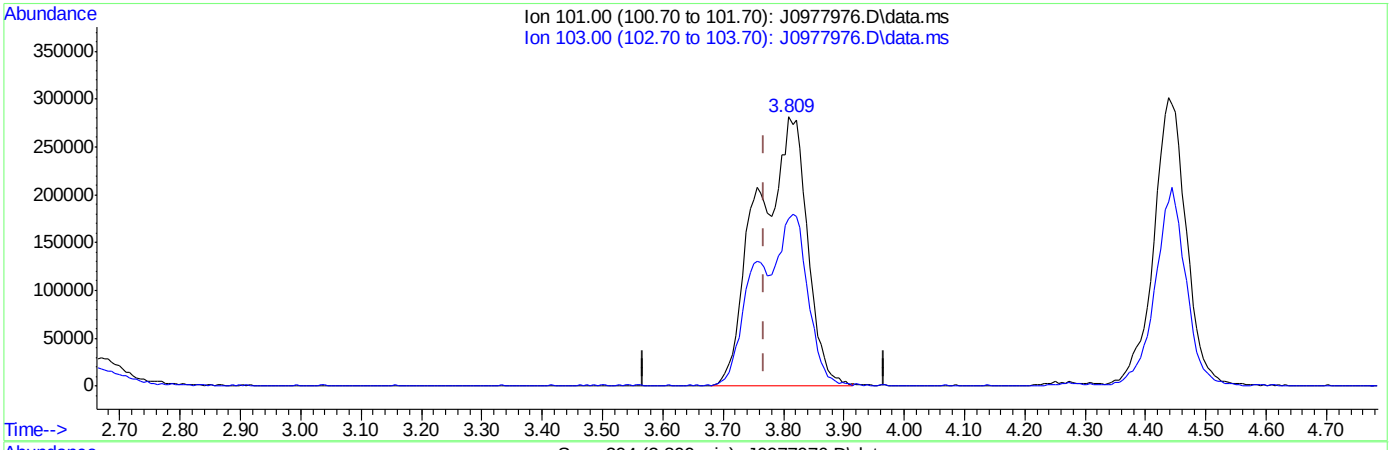

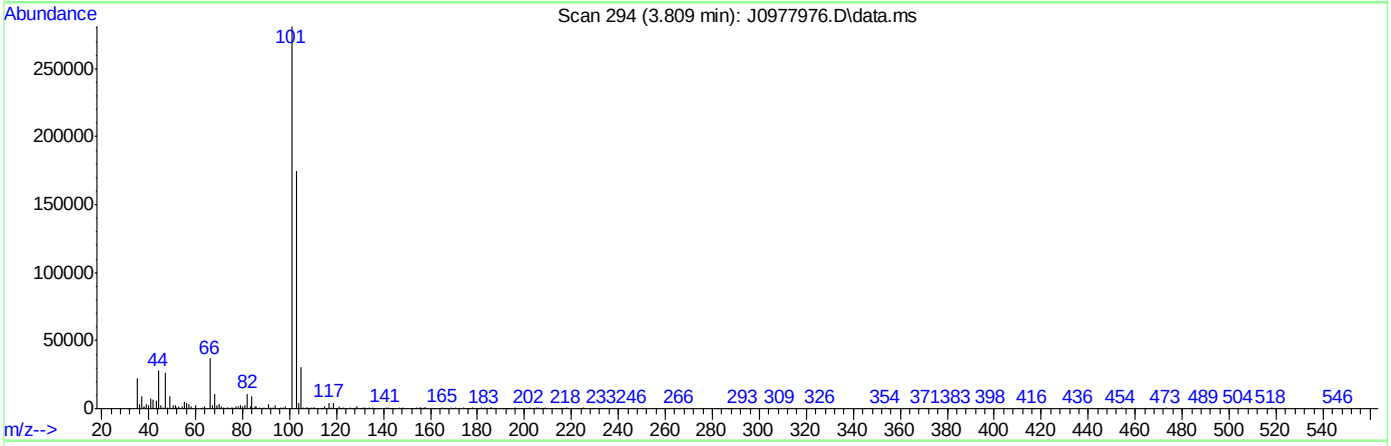

TIC: J0977976.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (+0.041) 48.36ug/L m

response 1609271

Ion	Exp%	Act%
101.00	100	100
103.00	59.20	62.12
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977976.D
Acq On : 12 Jul 2016 10:56 am
Operator : darshnap
Sample : ic5368-6 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 11:15:06 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
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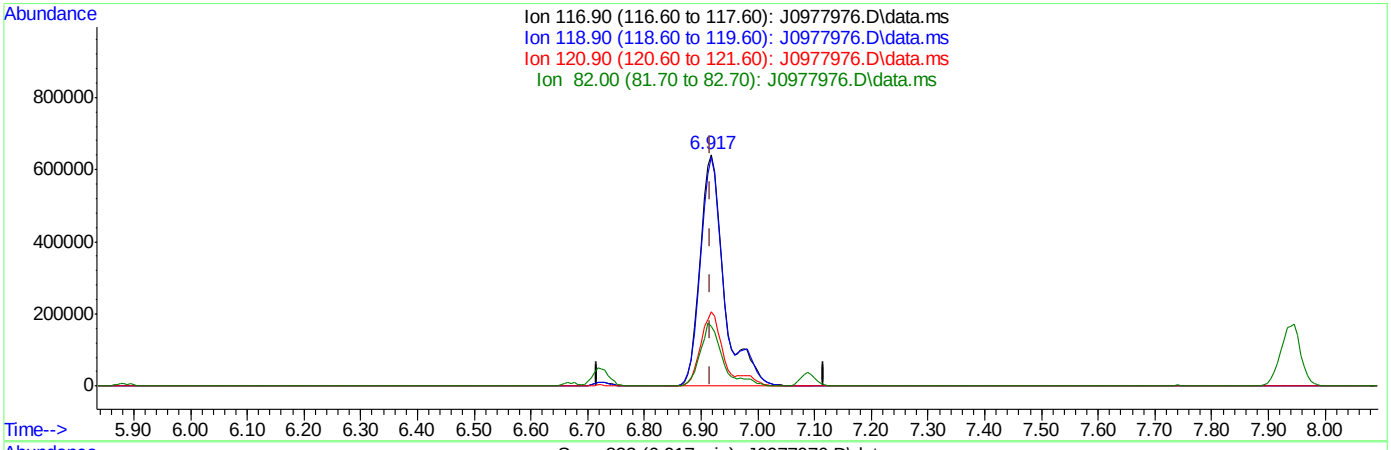

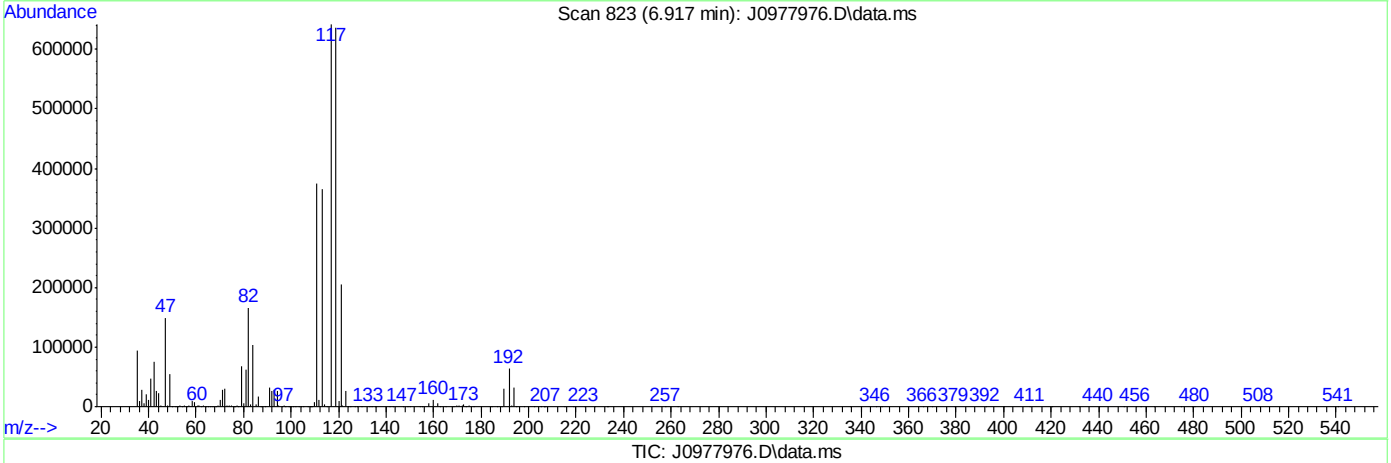

TIC: J0977976.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 87.39ug/L

response 1893431

Ion	Exp%	Act%
116.90	100	100
118.90	99.70	99.06
120.90	25.70	32.00
82.00	26.30	25.79

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977976.D
Acq On : 12 Jul 2016 10:56 am
Operator : darshnap
Sample : ic5368-6 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
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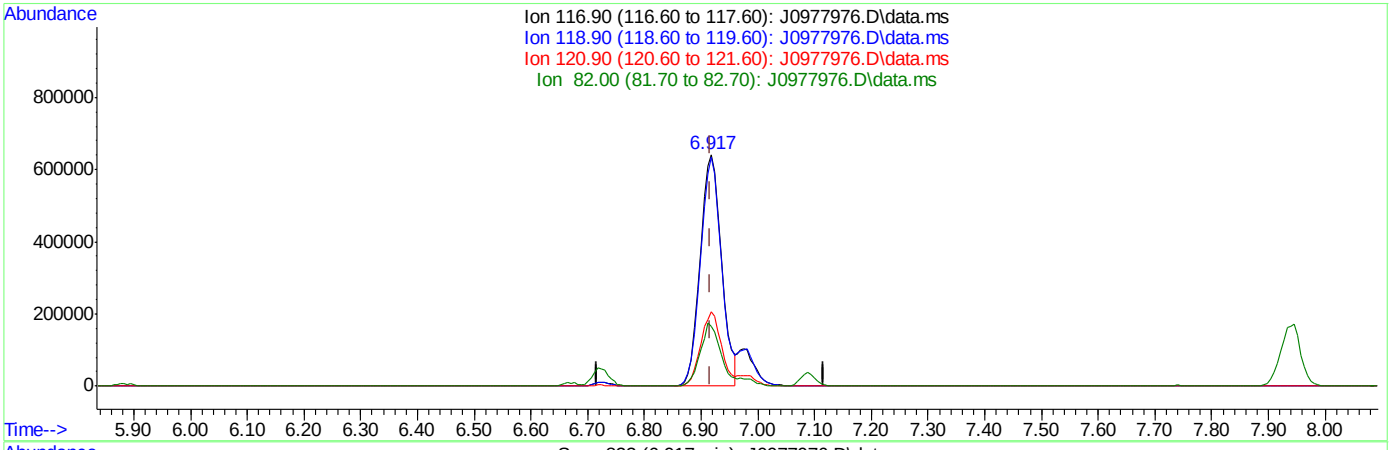

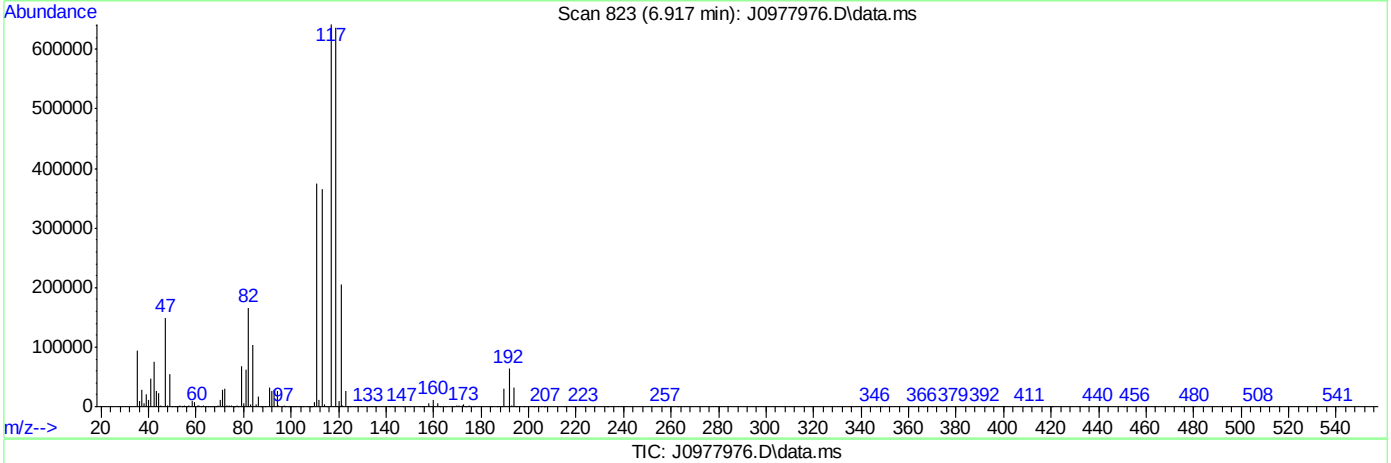

TIC: J0977976.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (+0.000) 76.70ug/L m

response 1661807

Ion	Exp%	Act%
116.90	100	100
118.90	99.70	99.06
120.90	25.70	32.03
82.00	26.30	25.88

SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977976.D
Acq On : 12 Jul 2016 10:56 am
Operator : darshnap
Sample : ic5368-6 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
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Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
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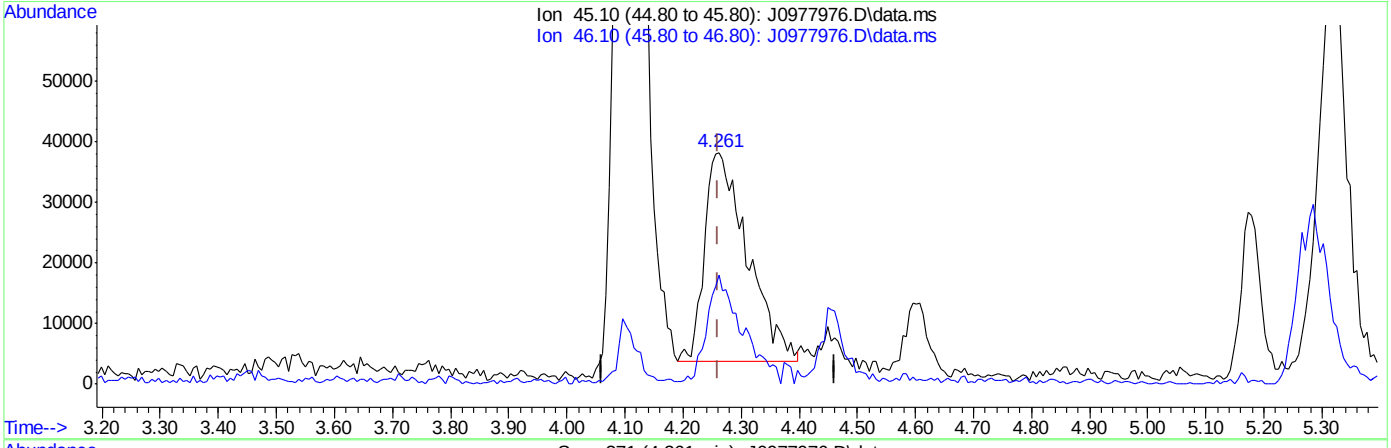
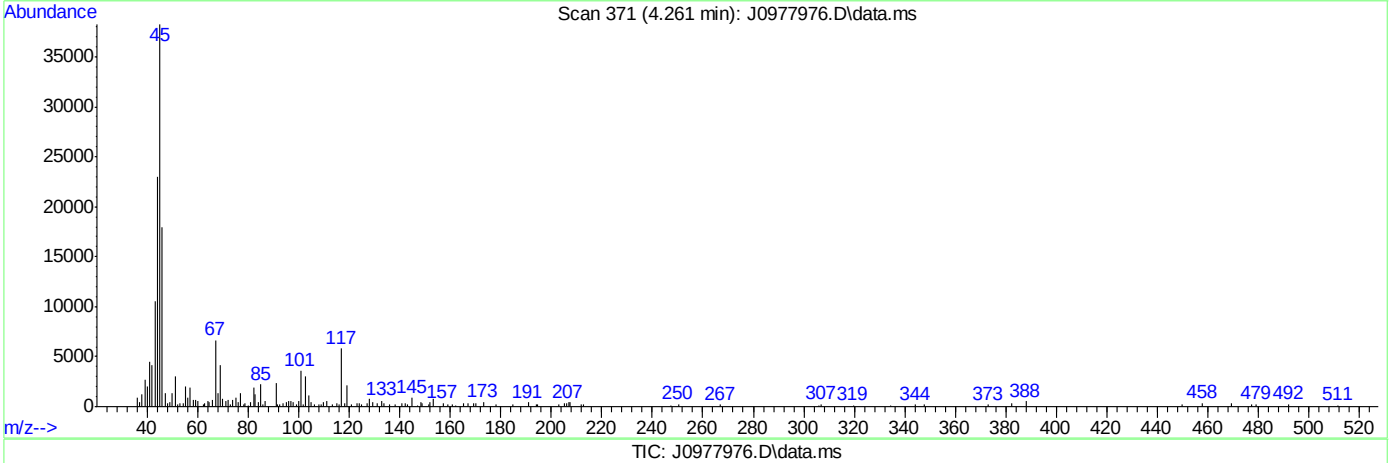




(107) Ethanol

4.261min (+0.000) 871.51ug/L

response 178517

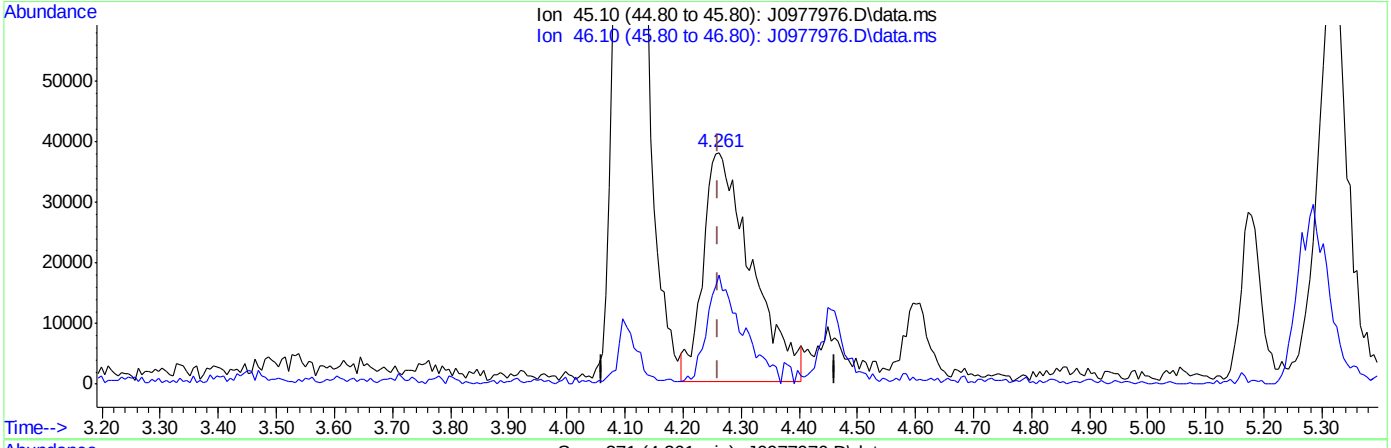
Ion	Exp%	Act%
45.10	100	100
46.10	41.80	51.30
0.00	0.00	0.00
0.00	0.00	0.00

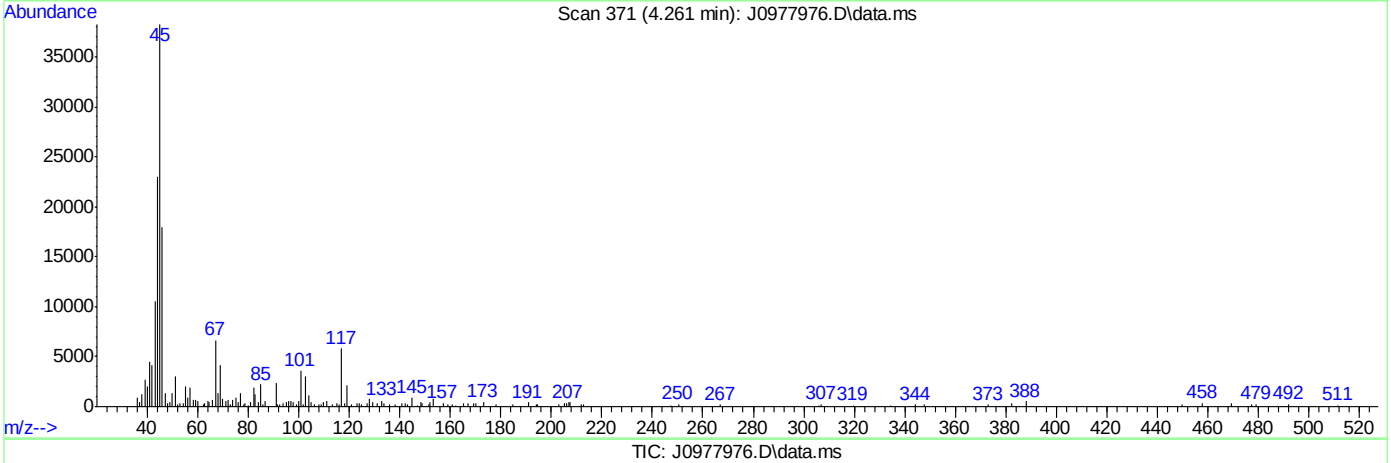
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977976.D
Acq On : 12 Jul 2016 10:56 am
Operator : darshnap
Sample : ic5368-6 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jul 12 11:15:06 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Fri Jul 08 08:13:09 2016
Response via : Initial Calibration





(107) Ethanol

4.261min (+0.000) 1063.91ug/L m

response 218157

Ion	Exp%	Act%
45.10	100	100
46.10	41.80	46.99
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

J0977977.D

Manual Integrations APPROVED (compounds with "m" flag)

Juan Garcia
07/13/16 14:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977977.D
Acq On : 12 Jul 2016 11:20 am
Operator : darshnap
Sample : ic5368-7 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 11:38:59 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:17:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	7.740	96	3192995	50.00 ug/L	0.00
56) Chlorobenzene-d5	10.830	117	2179299	50.00 ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	1254528	50.00 ug/L	0.00
106) Tert Butyl Alcohol-d10	5.290	65	338841	250.00 ug/L	0.01
System Monitoring Compounds					
36) Dibromofluoromethane	6.911	113	794657	47.55 ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 95.10%		
46) 1,2-Dichloroethane-d4	7.463	65	1107790	49.15 ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 98.30%		
57) Toluene-d8	9.285	98	2997891	50.91 ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.82%		
79) 4-Bromofluorobenzene	12.041	95	1325790	49.87 ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 99.74%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.669	85	2426000	Below Cal	98
3) Chloromethane	2.892	50	2668900	89.26 ug/L	98
4) Vinyl Chloride	3.039	62	2117750	Below Cal	97
5) 1,3-Butadiene	3.027	54	1567547	Below Cal	96
6) Bromomethane	3.456	94	1000485	74.70 ug/L	91
7) Chloroethane	3.591	64	801854	Below Cal	99
8) Trichlorofluoromethane	3.821	101	2308372m	89.11 ug/L	
9) Ethyl Ether	4.109	59	1524329	82.74 ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.338	67	2011738	86.16 ug/L	97
11) 1,1-Dichloroethene	4.379	61	2601805	85.61 ug/L	96
12) Freon 113	4.443	101	1655732	89.84 ug/L	99
13) Carbon Disulfide	4.455	76	5478020	83.50 ug/L	100
14) Iodomethane	4.567	142	2730225	87.04 ug/L	99
15) Allyl chloride	4.908	41	3121037	78.82 ug/L	97
16) Methylene Chloride	5.031	49	2575721	Below Cal	99
17) Acetone	5.054	58	694636	Below Cal	99
18) Methyl acetate	5.178	74	1305967	445.25 ug/L #	89
19) trans-1,2-Dichloroethene	5.213	61	2416790	Below Cal	98
20) Hexane	5.284	56	1663603	82.26 ug/L	94
21) Methyl Tert Butyl Ether	5.319	73	5378941	85.09 ug/L	99
22) Acetonitrile	5.572	40	1145727	Below Cal	99
23) Di-isopropyl ether	5.701	45	6290189	81.17 ug/L	97
24) Chloroprene	5.854	53	2945476	79.49 ug/L	97
25) 1,1-Dichloroethane	5.883	63	3077014	Below Cal	94
26) Acrylonitrile	5.912	53	3049565	425.94 ug/L	98
27) ETBE	6.100	59	5925109	Below Cal	95
28) Vinyl acetate	6.089	43	10865285	288.92 ug/L	92
29) cis-1,2-Dichloroethene	6.459	96	1944516	86.25 ug/L	95
30) 2,2-Dichloropropane	6.588	77	2744052	Below Cal	99
31) Bromochloromethane	6.670	128	855084	86.06 ug/L	98
32) Cyclohexane	6.717	56	3196301	82.90 ug/L	98
33) Chloroform	6.723	83	3040282	80.64 ug/L	98
34) Ethyl acetate	6.788	43	6095752	371.06 ug/L	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977977.D
Acq On : 12 Jul 2016 11:20 am
Operator : darshnap
Sample : ic5368-7 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 11:38:59 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:17:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.899	42	482030	70.44 ug/L	93
37) Carbon Tetrachloride	6.917	117	2349754m	86.49 ug/L	
38) 1,1,1-Trichloroethane	6.976	97	2859288	86.25 ug/L	99
39) 2-Butanone	7.005	43	3271052	461.85 ug/L	94
40) 1,1-Dichloropropene	7.087	75	2274510	85.65 ug/L	98
41) tert-Butyl Formate	7.176	59	11133014	Below Cal	93
42) Propionitrile	7.317	54	2180569	Below Cal	97
43) Methacrylonitrile	7.346	41	6805816	Below Cal	90
44) Benzene	7.340	78	5566353	75.68 ug/L	98
45) TAME	7.416	73	5045503	79.79 ug/L	98
47) 1,2-Dichloroethane	7.534	62	2488278	83.41 ug/L	98
48) Trichloroethene	7.916	95	1670659	Below Cal	98
49) Methylcyclohexane	7.939	83	2954041	83.86 ug/L	97
50) Dibromomethane	8.345	93	1082578	Below Cal	97
51) 1,2-Dichloropropane	8.433	63	1817324	85.33 ug/L	98
52) Bromodichloromethane	8.480	83	2385984	83.91 ug/L	98
53) Methyl methacrylate	8.574	41	1621872	79.45 ug/L	98
54) 2-Chloroethyl vinyl ether	8.991	63	4410241	397.44 ug/L	95
55) cis-1,3-Dichloropropene	9.091	75	2717669	83.10 ug/L	97
58) Toluene	9.338	91	5447922	72.84 ug/L	90
59) 2-Nitropropane	9.538	41	2275196	418.93 ug/L	99
60) 4-Methyl-2-pentanone	9.655	43	5786555	392.13 ug/L	89
61) trans-1,3-Dichloropropene	9.720	75	2342522	83.94 ug/L	96
62) Tetrachloroethene	9.737	166	1622051	91.11 ug/L	98
63) Ethyl methacrylate	9.825	69	2273000	80.05 ug/L	97
64) 1,1,2-Trichloroethane	9.884	83	1264045	Below Cal	96
65) Dibromochloromethane	10.084	129	1679576	87.89 ug/L	98
66) 1,3-Dichloropropane	10.166	76	2608625	86.74 ug/L	98
67) 1,2-Dibromoethane	10.342	107	1510955	87.58 ug/L	100
68) 2-hexanone	10.472	43	4494524	423.28 ug/L	92
69) 1-Chlorohexane	10.777	91	2254232	Below Cal	99
70) Ethylbenzene	10.848	91	5430046	68.18 ug/L	88
71) Chlorobenzene	10.848	112	3655636	78.50 ug/L	98
72) 1,1,1,2-Tetrachloroethane	10.901	131	1601684	85.15 ug/L	99
73) m,p-Xylene	10.983	91	6854327	115.93 ug/L	85
74) o-Xylene	11.424	91	5000003	70.98 ug/L	89
75) Styrene	11.471	104	4211967	78.27 ug/L	95
76) Bromoform	11.529	173	1036006	89.70 ug/L	98
77) Isopropylbenzene	11.729	105	5530320	69.75 ug/L	86
80) cis-1,4-Dichloro-2-butene	12.070	53	742661	Below Cal	98
81) n-Propylbenzene	12.146	91	5945857	62.22 ug/L	87
82) Bromobenzene	12.170	156	1813984	85.01 ug/L	99
83) 1,1,2,2-Tetrachloroethane	12.205	83	1937046	80.79 ug/L	99
84) 1,3,5-Trimethylbenzene	12.328	105	4905242	67.89 ug/L	89
85) 2-Chlorotoluene	12.334	91	4811360	68.71 ug/L	92
86) trans-1,4-Dichloro-2-B...	12.387	53	647824	86.09 ug/L #	78
87) 1,2,3-Trichloropropane	12.370	110	550656	Below Cal	96
88) Cyclohexanone	12.428	55	250695	Below Cal	95
89) 4-Chlorotoluene	12.505	91	4768832	70.44 ug/L	90
90) a-Methyl Styrene	12.593	118	3309489	73.18 ug/L	99

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977977.D
Acq On : 12 Jul 2016 11:20 am
Operator : darshnap
Sample : ic5368-7 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 11:38:59 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:17:21 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
91) tert-Butylbenzene	12.669	91	3473539	76.95 ug/L	94
92) 1,2,4-Trimethylbenzene	12.740	105	4854588	66.70 ug/L	90
93) Pentachloroethane	12.722	167	1141302	79.23 ug/L	97
94) sec-Butylbenzene	12.851	105	5778841	65.71 ug/L	89
95) 4-Isopropyltoluene	12.986	119	5080808	69.43 ug/L	86
96) 1,3-Dichlorobenzene	13.122	146	3293136	81.47 ug/L	97
97) 1,4-Dichlorobenzene	13.204	146	3281125	80.68 ug/L	97
98) n-Butylbenzene	13.415	92	3680892	75.65 ug/L	89
100) 1,2-Dichlorobenzene	13.627	146	3189680	78.77 ug/L	96
101) 1,2-Dibromo-3-Chloropr...	14.367	75	425459	91.39 ug/L	93
102) Hexachlorobutadiene	14.914	225	1169264	89.89 ug/L	98
103) 1,2,4-Trichlorobenzene	14.961	180	2389731	82.94 ug/L	97
104) Naphthalene	15.243	128	4383962	72.44 ug/L	92
105) 1,2,3-Trichlorobenzene	15.413	180	2239990	84.56 ug/L	99
107) Ethanol	4.267	45	316240m	Below Cal	
108) acrolein	4.737	56	1529927	409.86 ug/L	98
109) Tert Butyl Alcohol	5.366	59	1603897	Below Cal	94
110) tert Amyl alcohol	7.557	59	1340163	Below Cal	98
111) Isobutyl alcohol	7.434	42	1040498	Below Cal	98
112) 1,4-Dioxane	8.650	88	274872	Below Cal	92
113) 3,3-Dimethyl-1-butanol	10.419	57	5345791	Below Cal	97

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

7.6.7

7

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977977.D
Acq On : 12 Jul 2016 11:20 am
Operator : darshnap
Sample : ic5368-7 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
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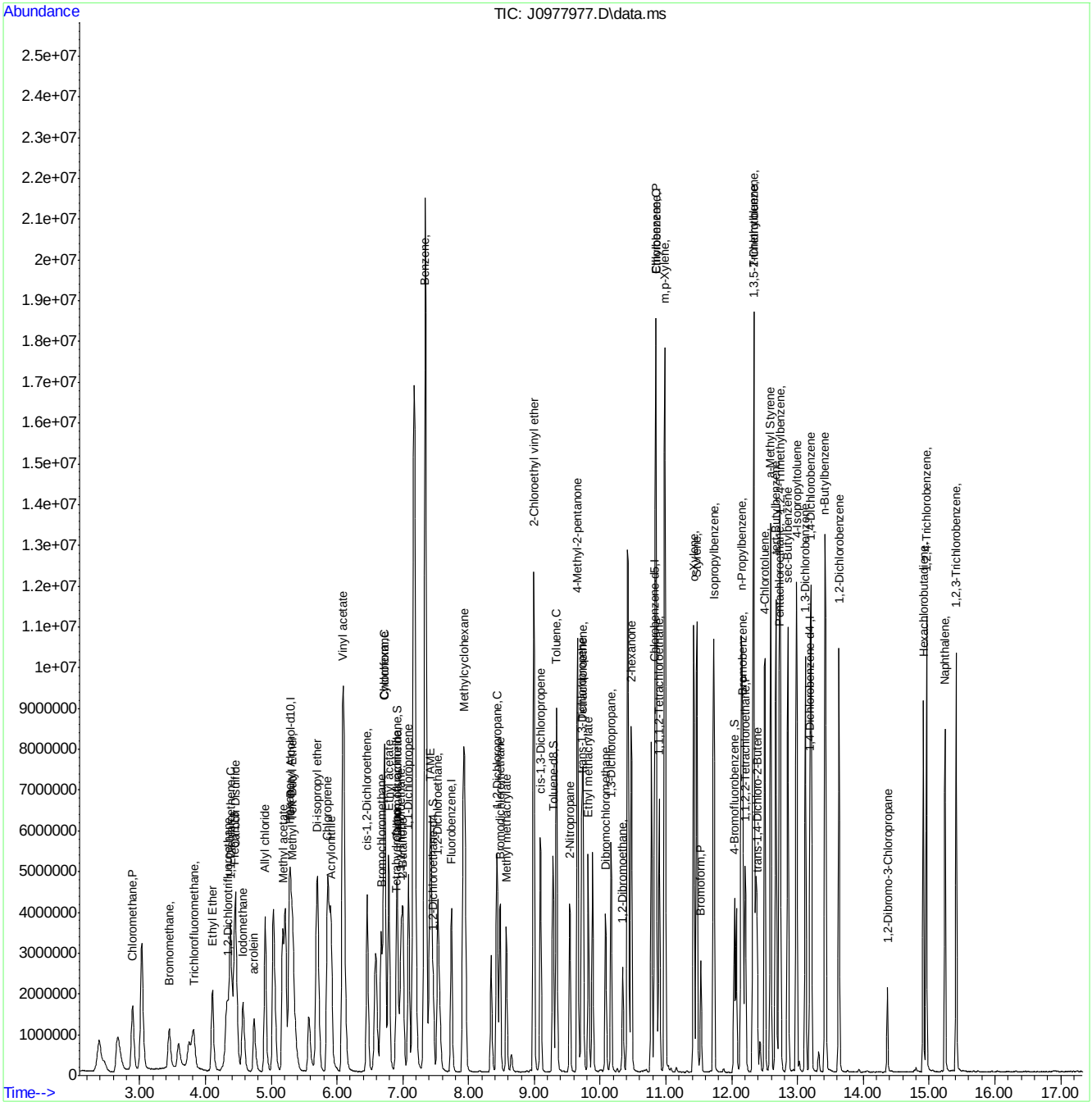
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:17:21 2016
Response via : Initial Calibration



MSJ071216a.M Tue Jul 12 14:12:15 2016 Page: 4

Manual Integration Approval Summary

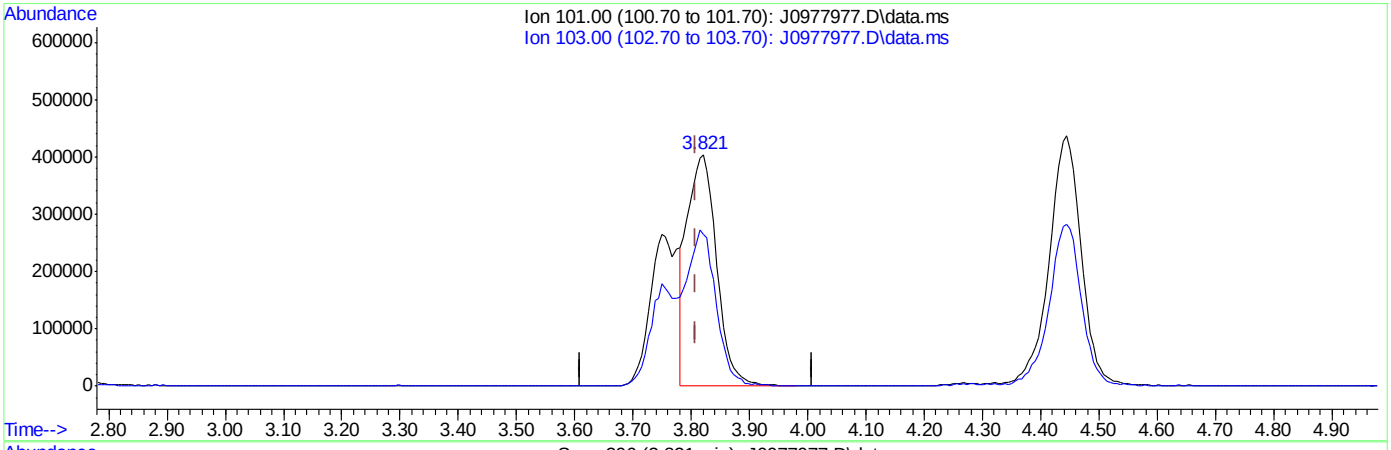
Sample Number:	VJ5368-IC5368	**Method:**	SW846 8260B
Lab FileID:	J0977977.D	**Analyst approved:**	07/12/16 14:17 Darshna Patel
Injection Time:	07/12/16 11:20	**Supervisor approved:**	07/13/16 14:14 Juan Garcia

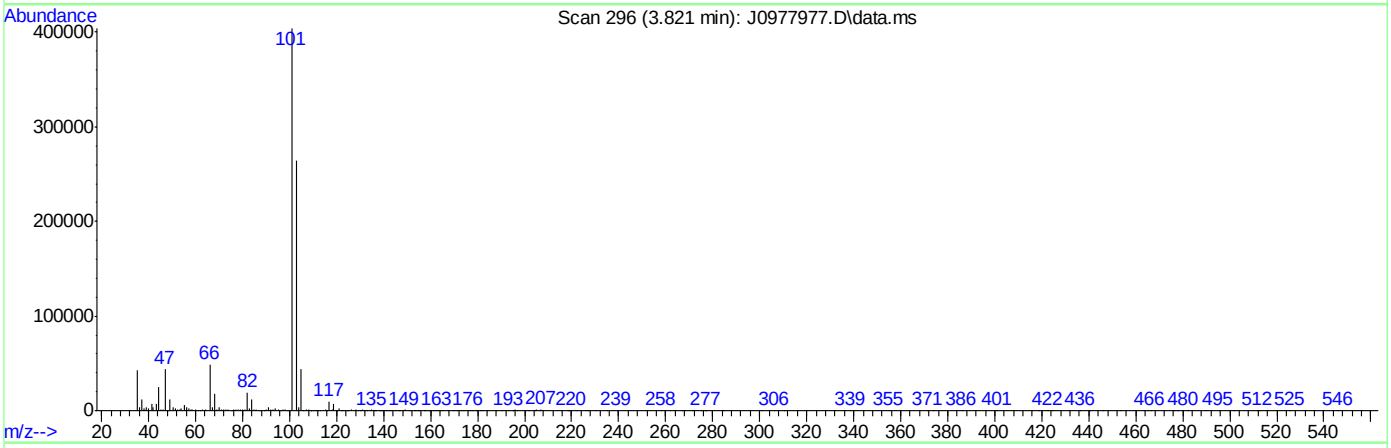
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.82	Split peak
Carbon Tetrachloride	56-23-5		6.92	Overlapping peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977977.D
Acq On : 12 Jul 2016 11:20 am
Operator : darshnap
Sample : ic5368-7 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 11:37:42 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:17:21 2016
Response via : Initial Calibration





TIC: J0977977.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.012) 55.54ug/L

response 1438609

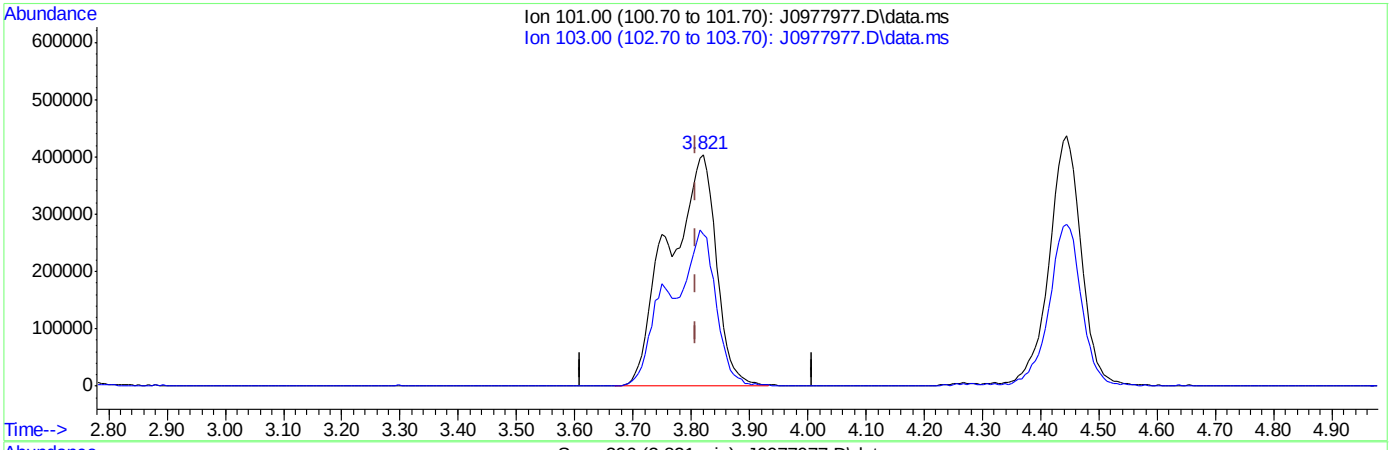
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	65.39
0.00	0.00	0.00
0.00	0.00	0.00

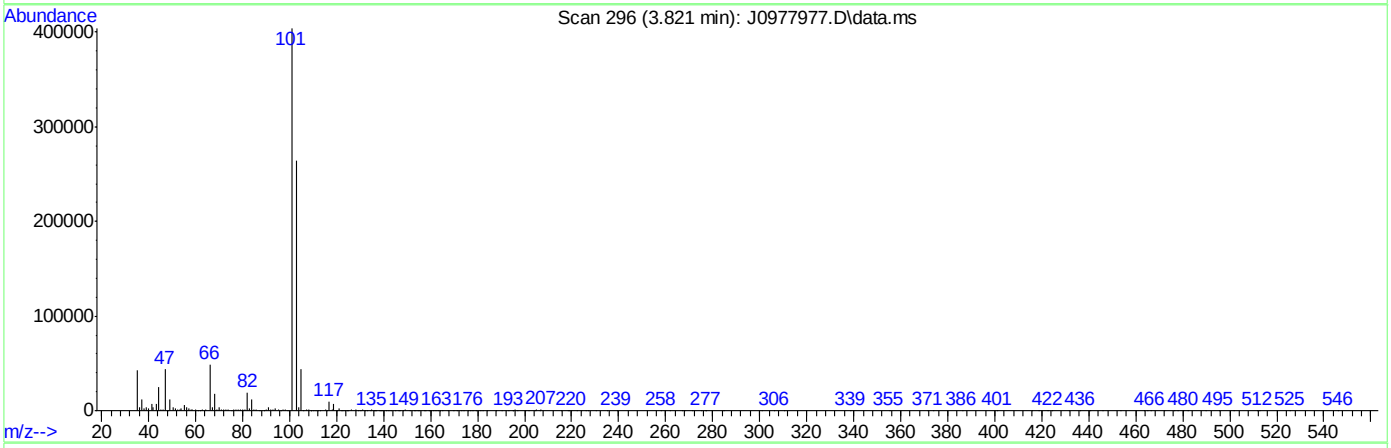
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977977.D
Acq On : 12 Jul 2016 11:20 am
Operator : darshnap
Sample : ic5368-7 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 11:37:42 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:17:21 2016
Response via : Initial Calibration





TIC: J0977977.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.012) 89.11ug/L m

response 2308372

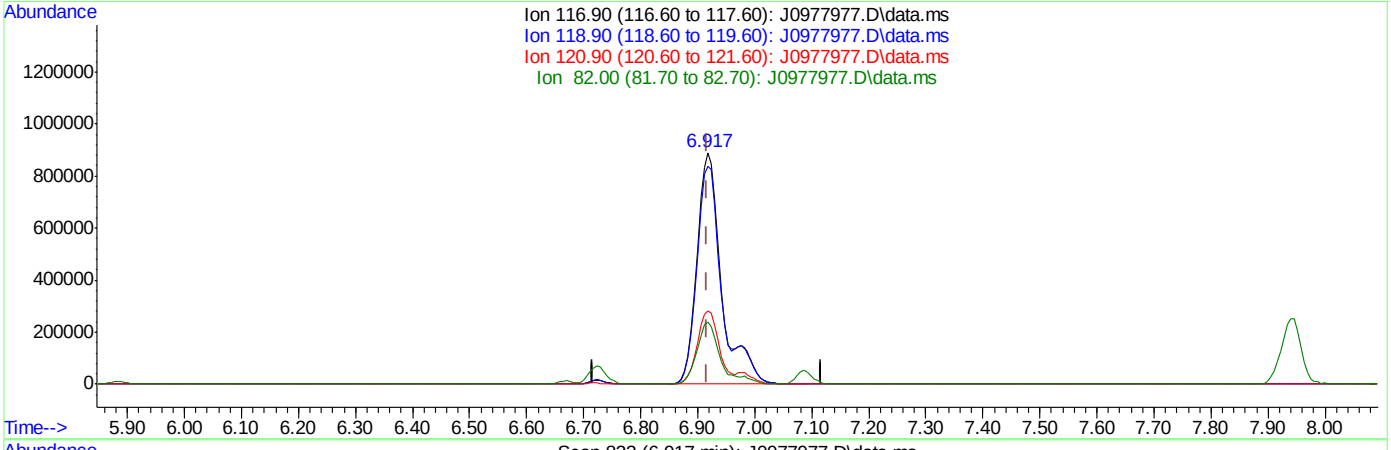
Ion	Exp%	Act%
101.00	100	100
103.00	62.10	65.52
0.00	0.00	0.00
0.00	0.00	0.00

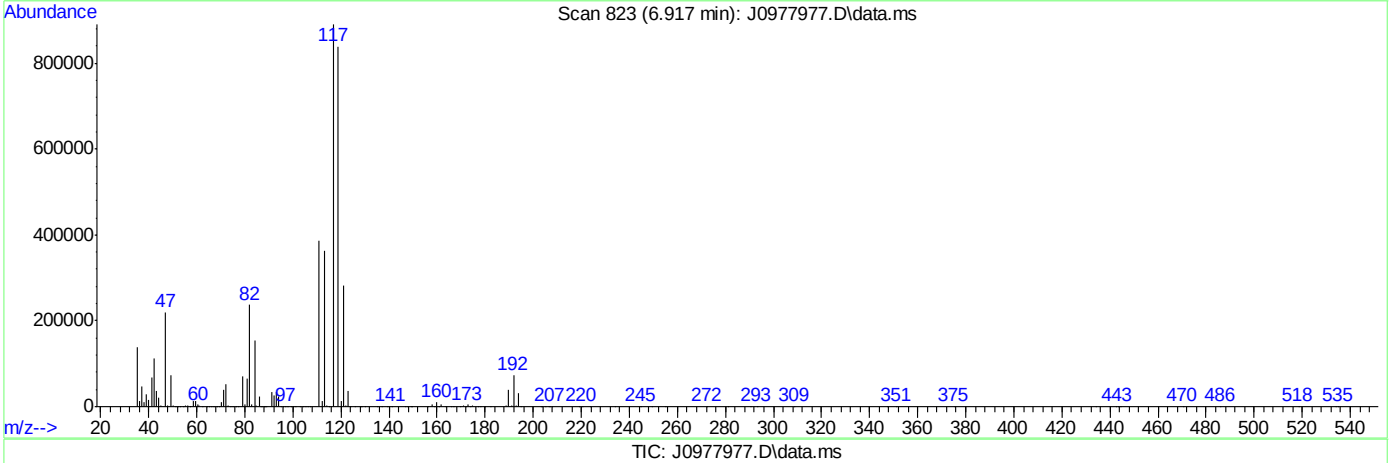
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977977.D
Acq On : 12 Jul 2016 11:20 am
Operator : darshnap
Sample : ic5368-7 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 11:37:42 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:17:21 2016
Response via : Initial Calibration





TIC: J0977977.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (-0.000) 99.10ug/L

response 2692392

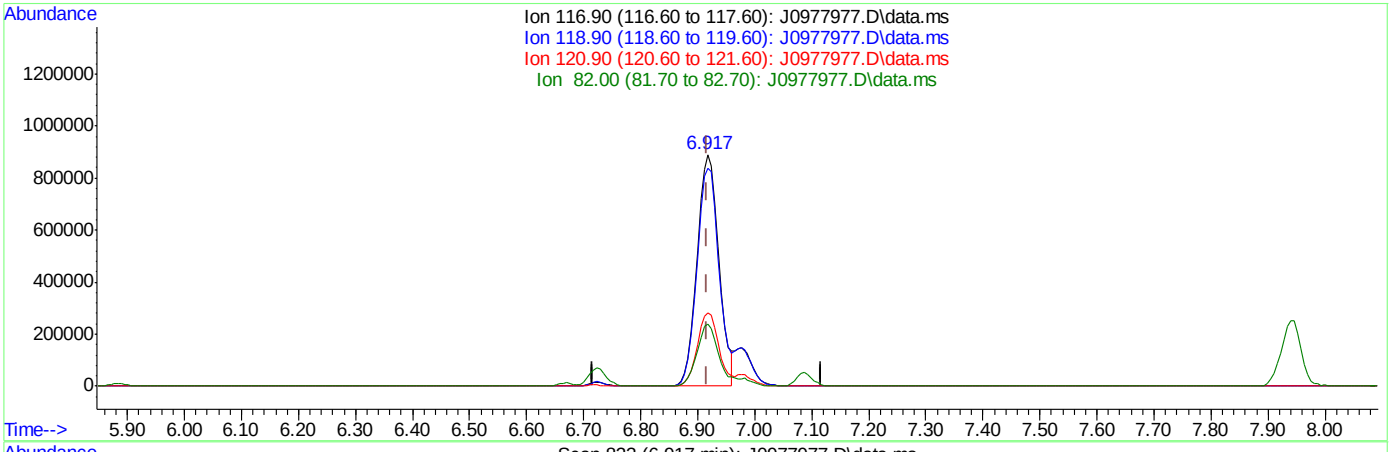
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	94.10
120.90	32.00	31.59
82.00	25.90	26.56

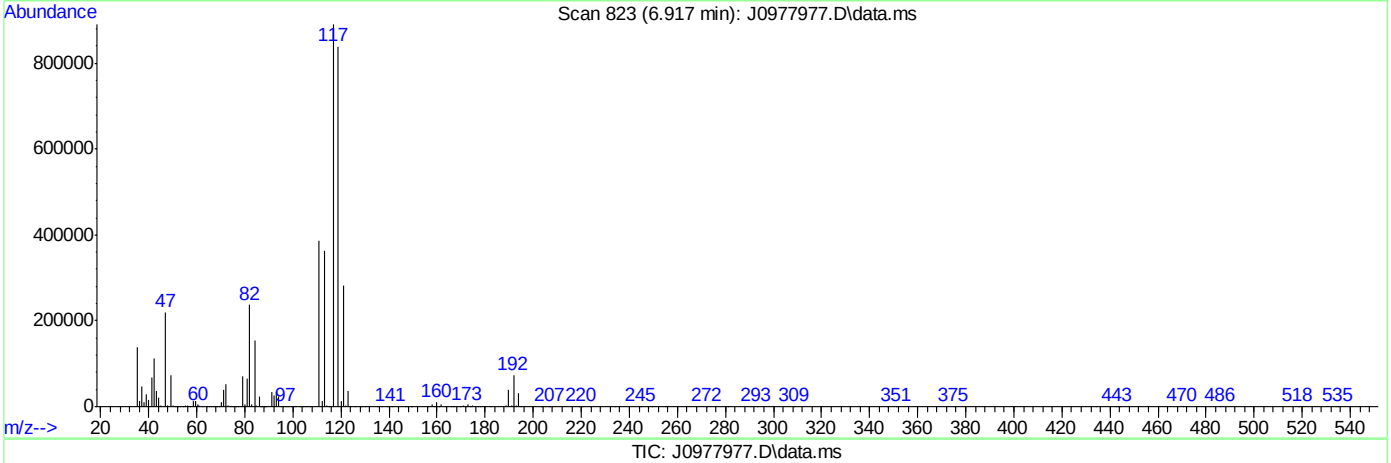
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977977.D
Acq On : 12 Jul 2016 11:20 am
Operator : darshnap
Sample : ic5368-7 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 11:37:42 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:17:21 2016
Response via : Initial Calibration





TIC: J0977977.D\data.ms

(37) Carbon Tetrachloride ( )

6.917min (-0.000) 86.49ug/L m

response 2349754

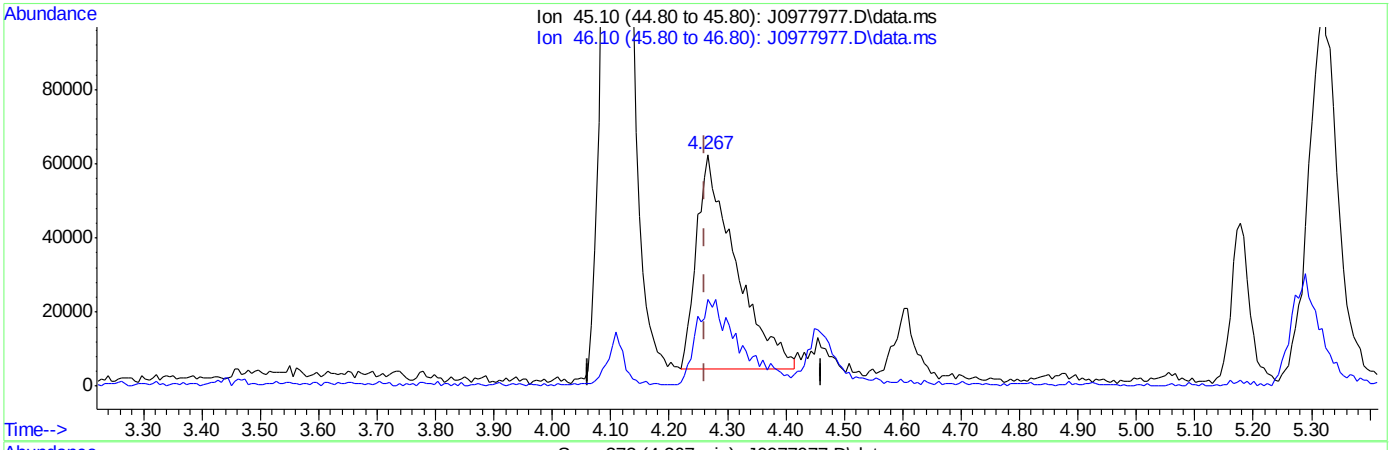
Ion	Exp%	Act%
116.90	100	100
118.90	99.10	94.19
120.90	32.00	31.59
82.00	25.90	26.64

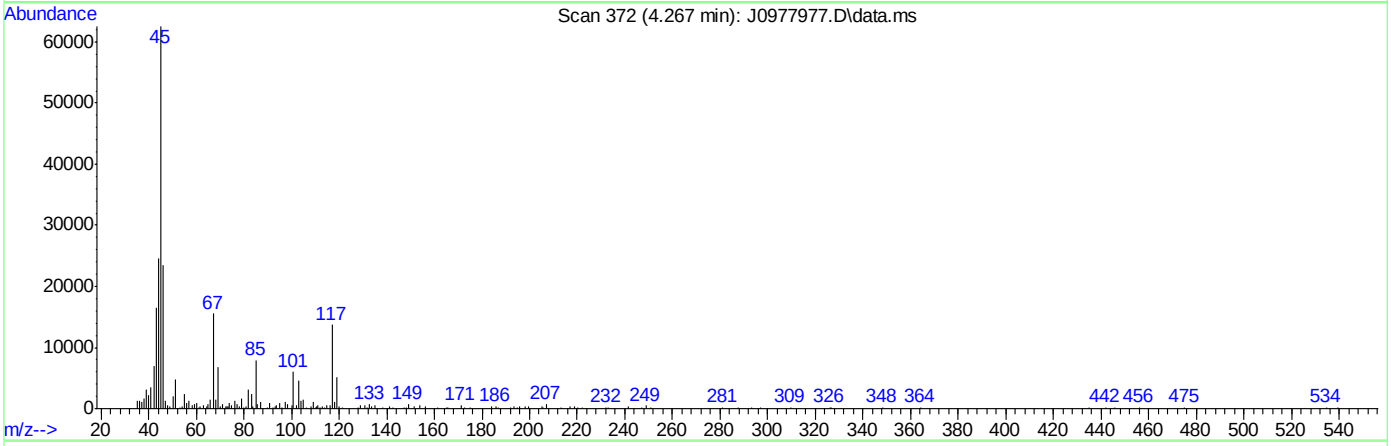
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977977.D
Acq On : 12 Jul 2016 11:20 am
Operator : darshnap
Sample : ic5368-7 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 11:37:42 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:17:21 2016
Response via : Initial Calibration





TIC: J0977977.D\data.ms

(107) Ethanol

4.267min (+0.006) -250.00ug/L

response 266127

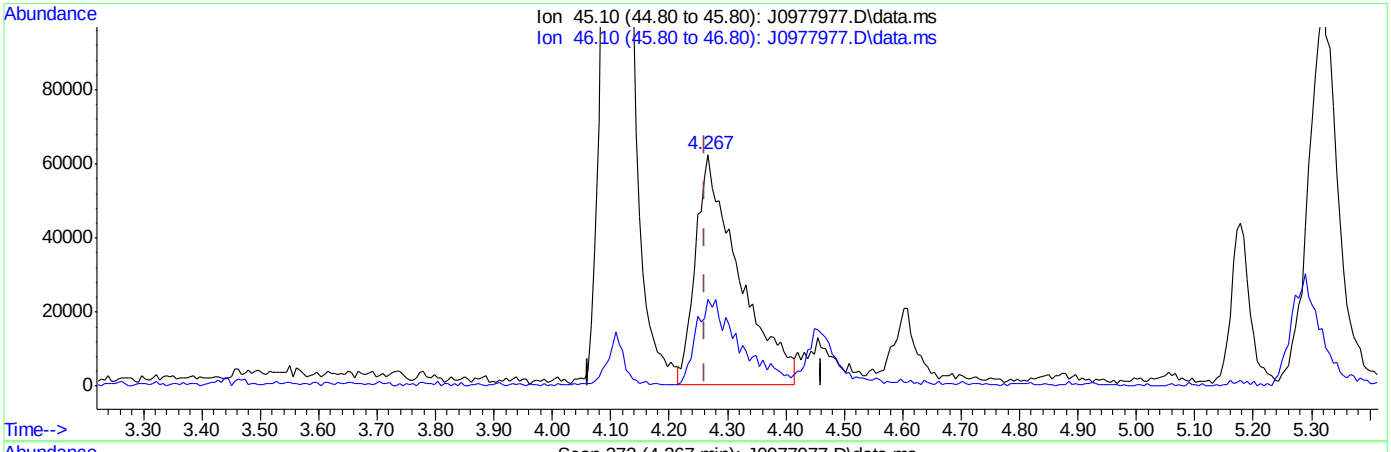
Ion	Exp%	Act%
45.10	100	100
46.10	47.00	38.76
0.00	0.00	0.00
0.00	0.00	0.00

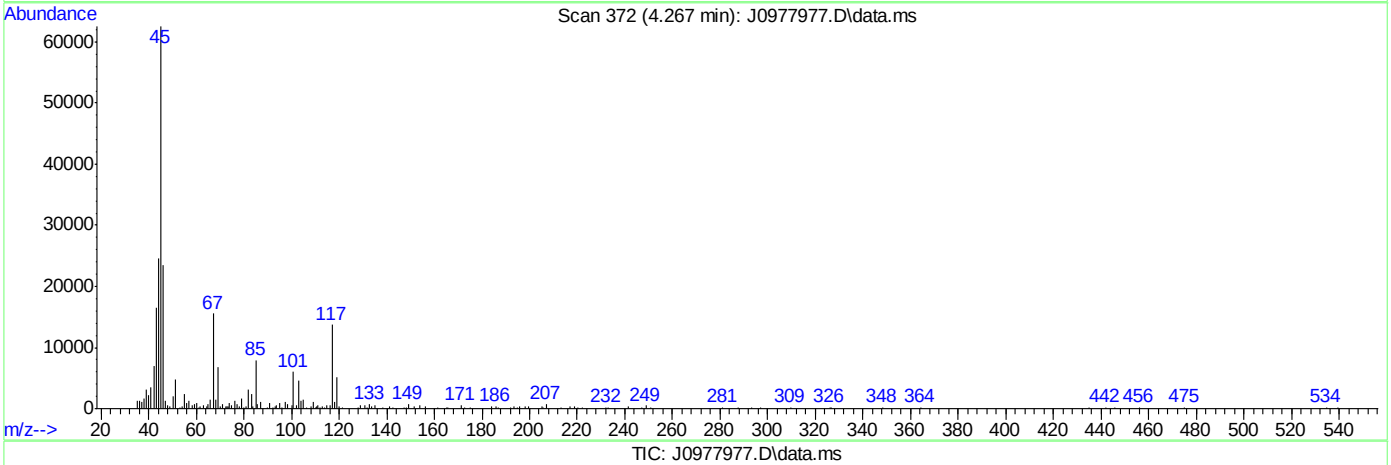
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977977.D
Acq On : 12 Jul 2016 11:20 am
Operator : darshnap
Sample : ic5368-7 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jul 12 11:37:42 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:17:21 2016
Response via : Initial Calibration





TIC: J0977977.D\data.ms

(107) Ethanol

4.267min (+0.006) -250.00ug/L m

response 316240

Ion	Exp%	Act%
45.10	100	100
46.10	47.00	37.55
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/13/16 14:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977979.D
Acq On : 12 Jul 2016 12:47 pm
Operator : darshnap
Sample : icv5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 13:26:39 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:50:02 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	3194321	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	2193667	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	1221541	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.272	65	376733	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	846028	50.68	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.36%			
46) 1,2-Dichloroethane-d4	7.458	65	1144014	50.73	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 101.46%			
57) Toluene-d8	9.279	98	2982027	50.51	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 101.02%			
79) 4-Bromofluorobenzene	12.035	95	1308924	50.51	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 101.02%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.675	85	967116	39.46	ug/L	97
3) Chloromethane	2.881	50	1068728	37.44	ug/L	100
4) Vinyl Chloride	3.028	62	865510	38.93	ug/L	99
5) 1,3-Butadiene	2.998	54	26138	1.46	ug/L #	71
6) Bromomethane	3.439	94	512894	46.61	ug/L	99
7) Chloroethane	3.598	64	498142	47.31	ug/L	95
8) Trichlorofluoromethane	3.821	101	1031125m	41.81	ug/L	
9) Ethyl Ether	4.103	59	623515	35.62	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.332	67	896953	43.05	ug/L	95
11) 1,1-Dichloroethene	4.385	61	1200157	42.58	ug/L	97
12) Freon 113	4.438	101	618963	34.98	ug/L	94
13) Carbon Disulfide	4.455	76	2153157	34.24	ug/L	97
14) Iodomethane	4.573	142	1066624	35.75	ug/L	95
15) Allyl chloride	4.908	41	1290015	37.63	ug/L	98
16) Methylene Chloride	5.031	49	1179526	42.59	ug/L	97
17) Acetone	5.049	58	368454	262.12	ug/L	89
18) Methyl acetate	5.172	74	560071	201.59	ug/L #	91
19) trans-1,2-Dichloroethene	5.213	61	1168172	44.75	ug/L	97
20) Hexane	5.284	56	662213	37.44	ug/L	97
21) Methyl Tert Butyl Ether	5.319	73	2257216	37.53	ug/L	96
22) Acetonitrile	5.566	40	441057	389.95	ug/L	92
23) Di-isopropyl ether	5.695	45	2757354	39.09	ug/L	99
24) Chloroprene	5.854	53	1310605	39.47	ug/L	97
25) 1,1-Dichloroethane	5.883	63	1431069	42.74	ug/L	96
26) Acrylonitrile	5.907	53	1308293	201.94	ug/L	98
27) ETBE	6.101	59	2544054	38.49	ug/L	98
28) Vinyl acetate	6.089	43	6733512	196.20	ug/L	100
29) cis-1,2-Dichloroethene	6.459	96	806537	37.69	ug/L	96
30) 2,2-Dichloropropane	6.588	77	1278564	43.94	ug/L	96
31) Bromochloromethane	6.670	128	346835	36.82	ug/L	98
32) Cyclohexane	6.717	56	1317108	38.61	ug/L	94
33) Chloroform	6.723	83	1377789	40.03	ug/L	98
34) Ethyl acetate	6.782	43	3147416	213.26	ug/L	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977979.D
Acq On : 12 Jul 2016 12:47 pm
Operator : darshnap
Sample : icv5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 13:26:39 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:50:02 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
35)	Tetrahydrofuran	6.900	42	207956	41.20	ug/L		94
37)	Carbon Tetrachloride	6.917	117	1032081	41.48	ug/L		98
38)	1,1,1-Trichloroethane	6.976	97	1175095	37.36	ug/L		96
39)	2-Butanone	6.999	43	1627823	231.46	ug/L		100
40)	1,1-Dichloropropene	7.088	75	956578	37.90	ug/L		93
41)	tert-Butyl Formate	7.170	59	6774238	440.41	ug/L		99
42)	Propionitrile	7.311	54	946588	430.65	ug/L		98
43)	Methacrylonitrile	7.340	41	3866219	426.16	ug/L		99
44)	Benzene	7.340	78	2618708	39.72	ug/L		99
45)	TAME	7.417	73	2225206	38.57	ug/L		92
47)	1,2-Dichloroethane	7.528	62	1095214	40.58	ug/L		99
48)	Trichloroethene	7.916	95	721136	38.18	ug/L		96
49)	Methylcyclohexane	7.940	83	1276476	38.08	ug/L		99
50)	Dibromomethane	8.339	93	459784	38.98	ug/L		97
51)	1,2-Dichloropropane	8.427	63	754486	37.34	ug/L		97
52)	Bromodichloromethane	8.474	83	1045867	39.00	ug/L		98
53)	Methyl methacrylate	8.574	41	739786	44.45	ug/L		93
54)	2-Chloroethyl vinyl ether	8.991	63	2259761	216.81	ug/L		99
55)	cis-1,3-Dichloropropene	9.091	75	1238412	39.99	ug/L		99
58)	Toluene	9.332	91	2717141	39.32	ug/L		100
59)	2-Nitropropane	9.538	41	1017596	208.14	ug/L		96
60)	4-Methyl-2-pentanone	9.655	43	3253301	217.46	ug/L		98
61)	trans-1,3-Dichloropropene	9.720	75	1149515	43.17	ug/L		97
62)	Tetrachloroethene	9.737	166	645120	37.54	ug/L		98
63)	Ethyl methacrylate	9.820	69	882421	37.01	ug/L		98
64)	1,1,2-Trichloroethane	9.884	83	551734	41.66	ug/L		98
65)	Dibromochloromethane	10.084	129	730748	40.21	ug/L		98
66)	1,3-Dichloropropane	10.166	76	1112625	38.79	ug/L		99
67)	1,2-Dibromoethane	10.343	107	656232	40.02	ug/L		100
68)	2-hexanone	10.472	43	2332283	214.79	ug/L		100
69)	1-Chlorohexane	10.777	91	979798	39.92	ug/L		93
70)	Ethylbenzene	10.842	91	2882012	39.62	ug/L		99
71)	Chlorobenzene	10.848	112	1741268	40.84	ug/L		99
72)	1,1,1,2-Tetrachloroethane	10.895	131	723880	40.48	ug/L		98
73)	m,p-Xylene	10.983	91	4237424	80.40	ug/L		99
74)	o-Xylene	11.424	91	2583468	39.69	ug/L		98
75)	Styrene	11.471	104	1990078	39.71	ug/L		99
76)	Bromoform	11.530	173	444386	40.59	ug/L		96
77)	Isopropylbenzene	11.723	105	2969821	41.00	ug/L		98
80)	cis-1,4-Dichloro-2-butene	12.070	53	286119	39.33	ug/L		92
81)	n-Propylbenzene	12.146	91	3506071	42.33	ug/L		99
82)	Bromobenzene	12.164	156	753252	40.17	ug/L		98
83)	1,1,2,2-Tetrachloroethane	12.205	83	873768	42.71	ug/L		99
84)	1,3,5-Trimethylbenzene	12.329	105	2548138	40.12	ug/L		98
85)	2-Chlorotoluene	12.334	91	2474503	40.95	ug/L		98
86)	trans-1,4-Dichloro-2-B...	12.381	53	268713	41.26	ug/L	#	75
87)	1,2,3-Trichloropropane	12.364	110	238896	42.46	ug/L		97
88)	Cyclohexanone	12.428	55	98678	194.99	ug/L		88
89)	4-Chlorotoluene	12.499	91	2456128	41.42	ug/L		99
91)	tert-Butylbenzene	12.669	91	1653891	41.28	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977979.D
Acq On : 12 Jul 2016 12:47 pm
Operator : darshnap
Sample : icv5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 13:26:39 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:50:02 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	1,2,4-Trimethylbenzene	12.734	105	2577886	40.63	ug/L		98
93)	Pentachloroethane	12.722	167	505246	46.00	ug/L		97
94)	sec-Butylbenzene	12.852	105	3217723	42.15	ug/L		100
95)	4-Isopropyltoluene	12.981	119	2709079	41.74	ug/L		100
96)	1,3-Dichlorobenzene	13.122	146	1484237	41.62	ug/L		97
97)	1,4-Dichlorobenzene	13.204	146	1490466	41.37	ug/L		97
98)	n-Butylbenzene	13.416	92	1745670	40.49	ug/L		95
99)	Benzyl Chloride	13.433	126	352994	42.73	ug/L	#	92
100)	1,2-Dichlorobenzene	13.627	146	1428677	40.78	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.367	75	175232	40.93	ug/L		98
102)	Hexachlorobutadiene	14.914	225	474184	39.43	ug/L		100
103)	1,2,4-Trichlorobenzene	14.955	180	1035963	40.87	ug/L		98
104)	Naphthalene	15.243	128	2358041	45.43	ug/L		100
105)	1,2,3-Trichlorobenzene	15.413	180	948976	40.60	ug/L		96
107)	Ethanol	4.261	45	128196m	708.67	ug/L		
108)	acrolein	4.737	56	763227	217.05	ug/L		99
109)	Tert Butyl Alcohol	5.360	59	675570	368.32	ug/L		97
110)	tert Amyl alcohol	7.552	59	555969	367.96	ug/L		96
111)	Isobutyl alcohol	7.428	42	432740	724.76	ug/L		98
112)	1,4-Dioxane	8.650	88	94208	711.97	ug/L		89
113)	3,3-Dimethyl-1-butanol	10.419	57	2748385	1926.36	ug/L		99

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

7.6.8

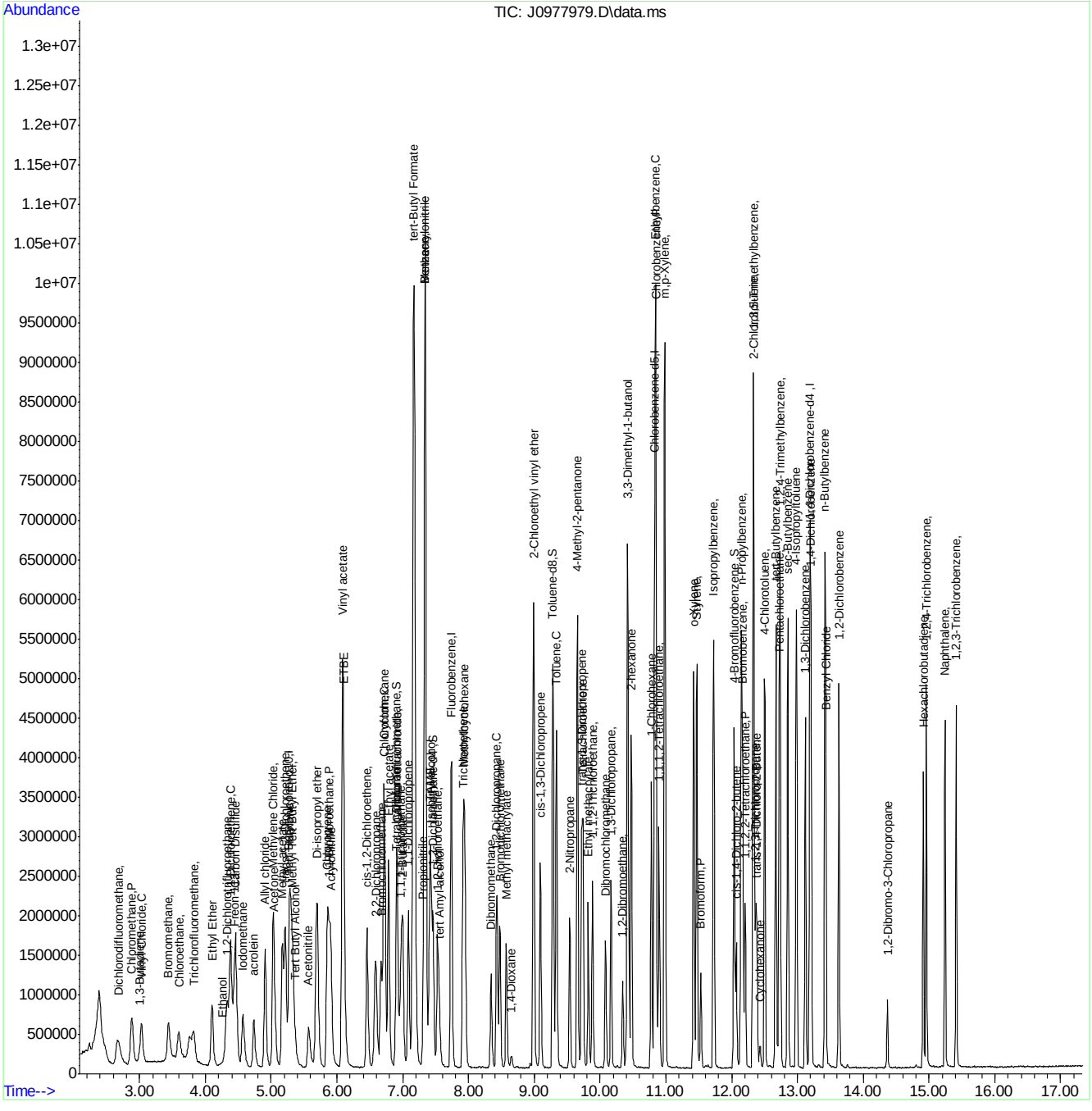
7

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977979.D
Acq On : 12 Jul 2016 12:47 pm
Operator : darshnap
Sample : icv5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 13:26:39 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:50:02 2016
Response via : Initial Calibration



MSJ071216a.M Tue Jul 12 14:12:17 2016 Page: 4

SGS ACCUTEST FA35362

Manual Integration Approval Summary

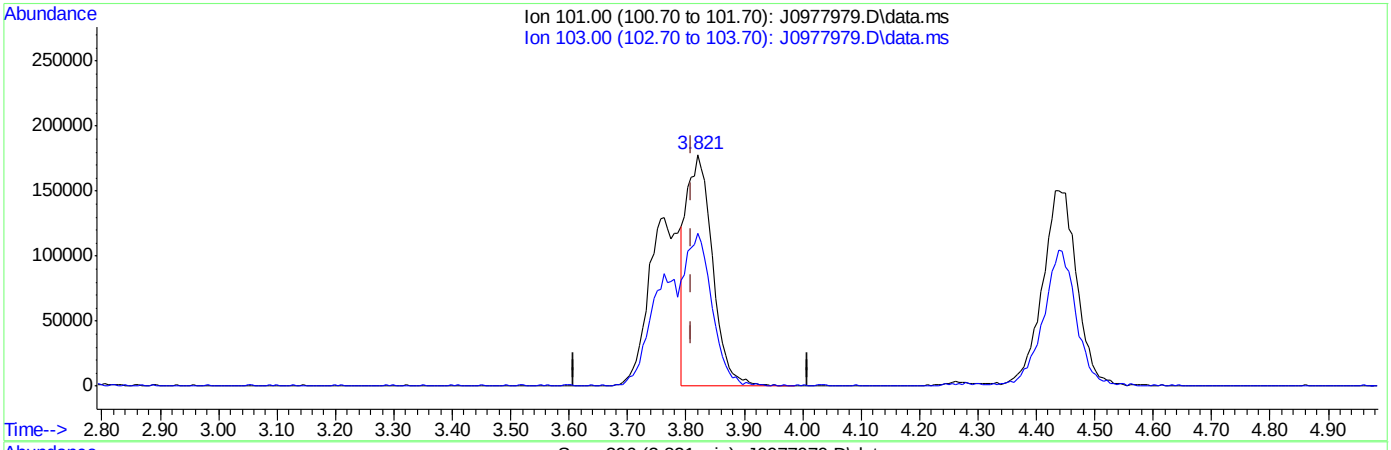
Sample Number:	VJ5368-ICV5368	**Method:**	SW846 8260B
Lab FileID:	J0977979.D	**Analyst approved:**	07/12/16 14:17 Darshna Patel
Injection Time:	07/12/16 12:47	**Supervisor approved:**	07/13/16 14:14 Juan Garcia

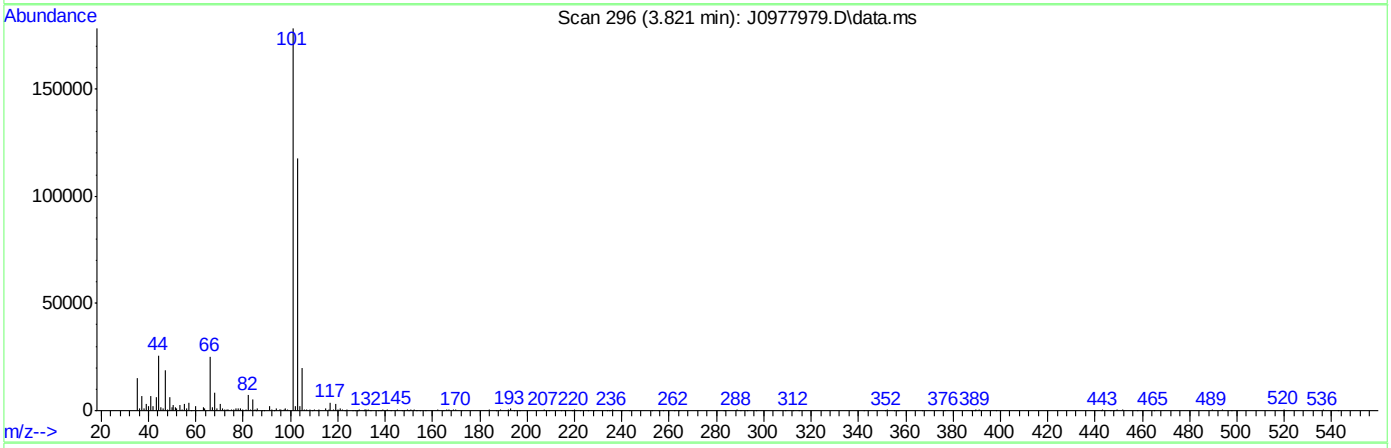
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.82	Split peak
Ethyl Alcohol	64-17-5		4.26	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977979.D
Acq On : 12 Jul 2016 12:47 pm
Operator : darshnap
Sample : icv5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 13:26:17 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:50:02 2016
Response via : Initial Calibration





TIC: J0977979.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.012) 22.47ug/L

response 554300

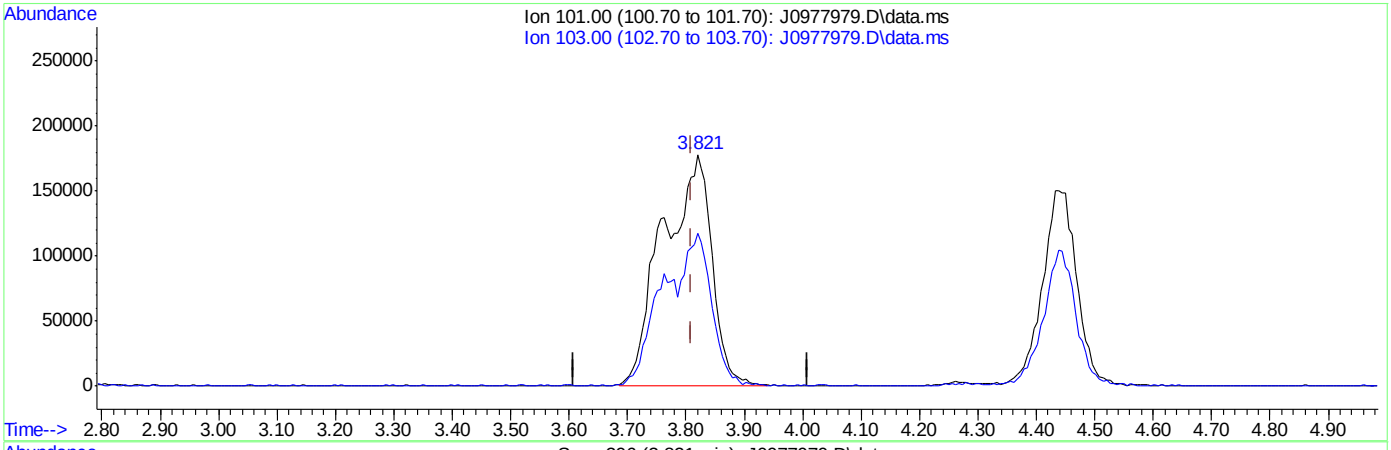
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	65.66
0.00	0.00	0.00
0.00	0.00	0.00

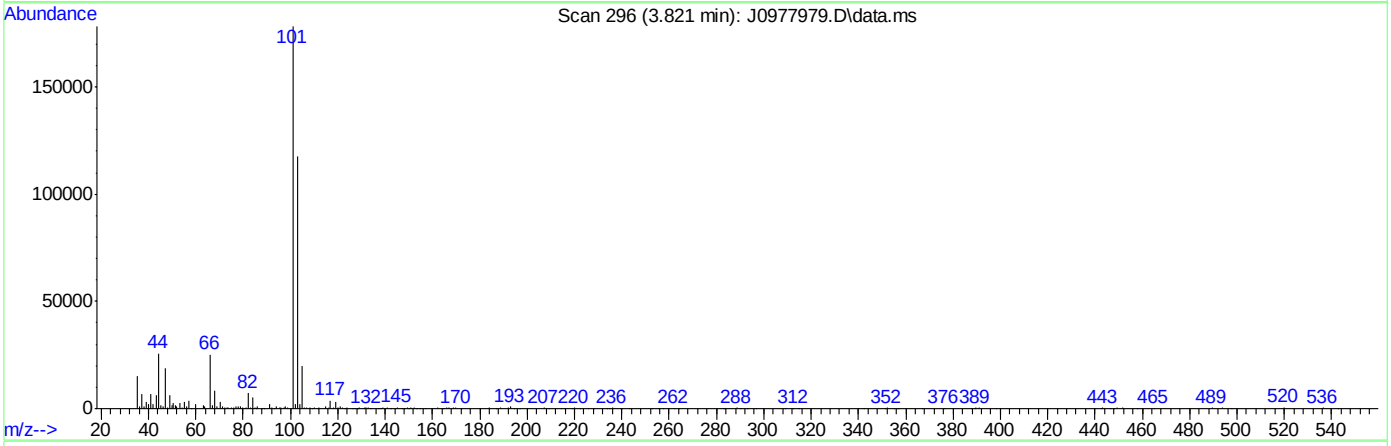
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977979.D
Acq On : 12 Jul 2016 12:47 pm
Operator : darshnap
Sample : icv5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 13:26:17 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:50:02 2016
Response via : Initial Calibration





TIC: J0977979.D\data.ms

(8) Trichlorofluoromethane ( )

3.821min (+0.012) 41.81ug/L m

response 1031125

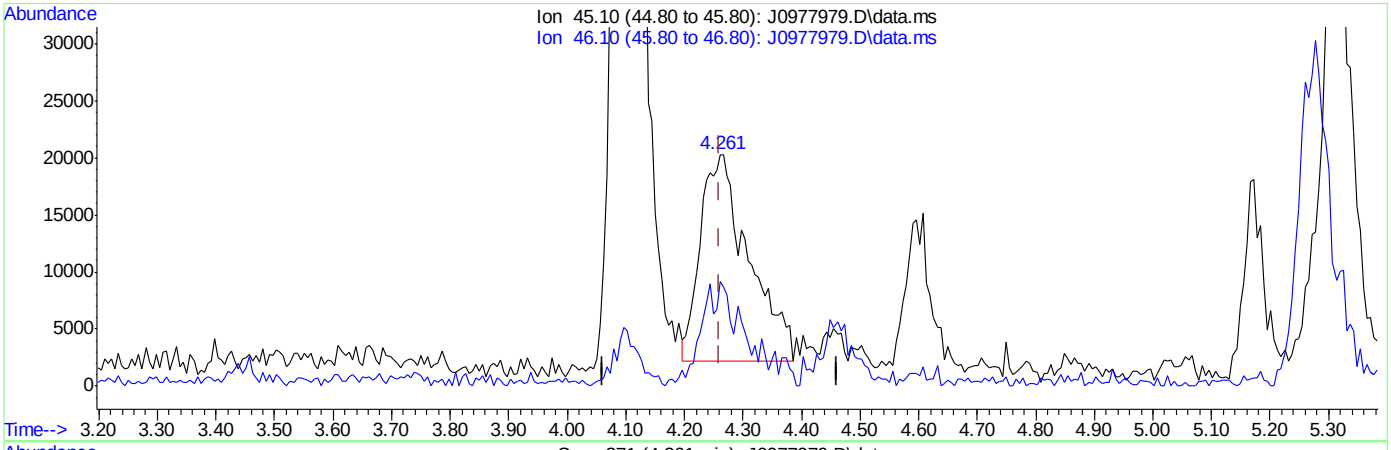
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	65.89
0.00	0.00	0.00
0.00	0.00	0.00

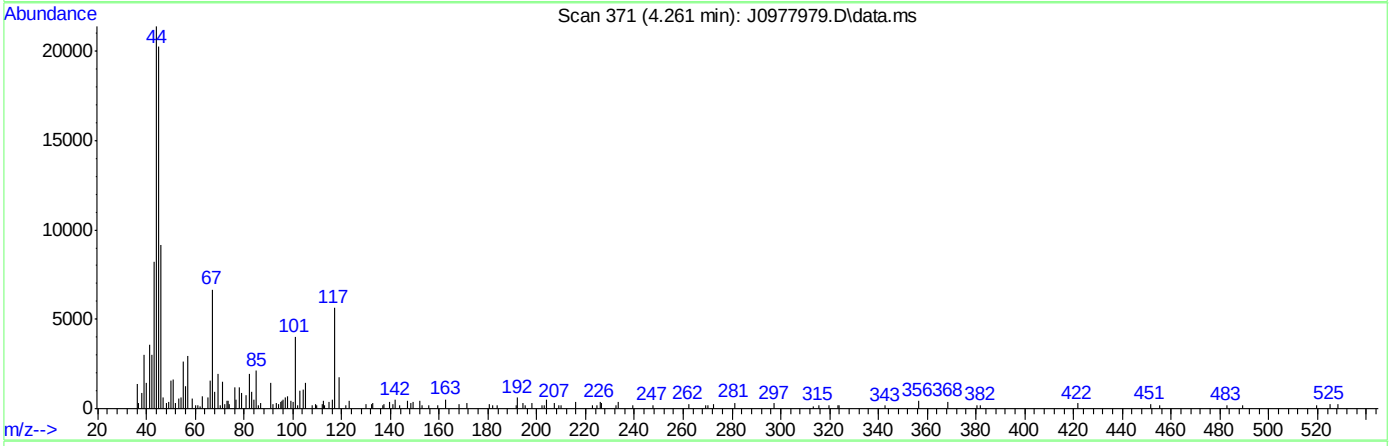
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977979.D
Acq On : 12 Jul 2016 12:47 pm
Operator : darshnap
Sample : icv5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 13:26:17 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:50:02 2016
Response via : Initial Calibration





(107) Ethanol

4.261min (+0.000) 569.48ug/L

response 103316

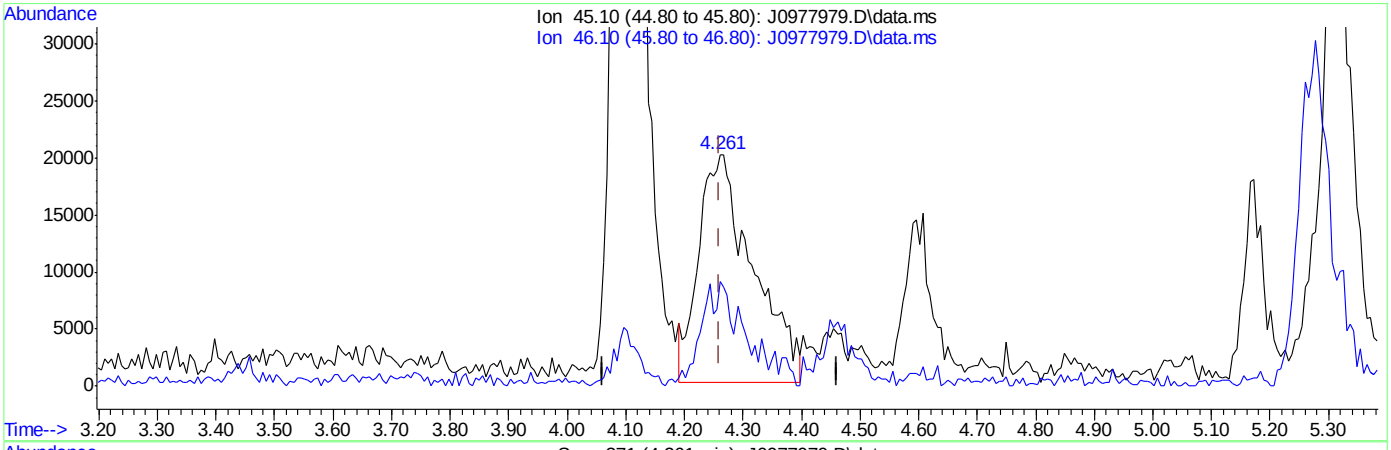
Ion	Exp%	Act%
45.10	100	100
46.10	30.50	43.97
0.00	0.00	0.00
0.00	0.00	0.00

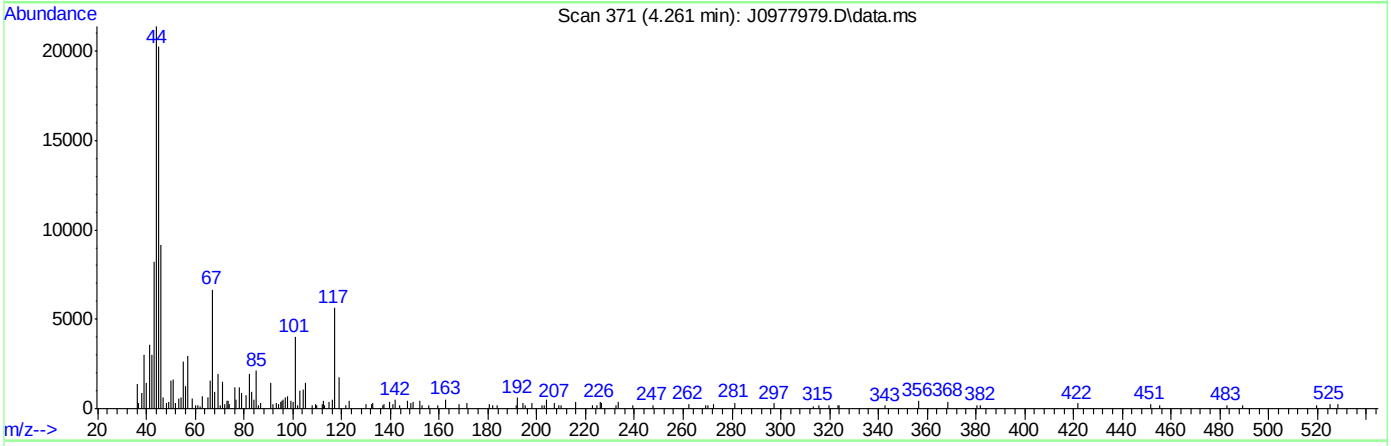
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071216\
Data File : J0977979.D
Acq On : 12 Jul 2016 12:47 pm
Operator : darshnap
Sample : icv5368-5 Inst : MSVOA6
Misc : MS34317,vj5368,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 12 13:26:17 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Tue Jul 12 11:50:02 2016
Response via : Initial Calibration





(107) Ethanol

4.261min (+0.000) 708.67ug/L m

response 128196

Ion	Exp%	Act%
45.10	100	100
46.10	30.50	45.21
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Manual Integrations APPROVED (compounds with "m" flag)
Juan Garcia
07/14/16 14:59

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978029.D
Acq On : 14 Jul 2016 9:00 am
Operator : darshnap
Sample : cc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 11:31:20 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.734	96	2807633	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1879032	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	1004080	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	346378	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.905	113	725233	49.43	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.86%			
46) 1,2-Dichloroethane-d4	7.458	65	1020792	51.50	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 103.00%			
57) Toluene-d8	9.279	98	2632643	52.05	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.10%			
79) 4-Bromofluorobenzene	12.035	95	1111016	52.16	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 104.32%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.669	85	822878	38.20	ug/L	99
3) Chloromethane	2.886	50	997556	39.76	ug/L	98
4) Vinyl Chloride	3.027	62	826895	42.32	ug/L	99
5) 1,3-Butadiene	3.021	54	595071	39.63	ug/L	94
6) Bromomethane	3.445	94	433571	44.66	ug/L	99
7) Chloroethane	3.586	64	417166	44.52	ug/L	98
8) Trichlorofluoromethane	3.809	101	928915m	42.85	ug/L	
9) Ethyl Ether	4.103	59	611159	39.72	ug/L	99
10) 1,2-Dichlorotrifluoroe...	4.332	67	800419	43.73	ug/L	91
11) 1,1-Dichloroethene	4.379	61	1061048	42.85	ug/L	95
12) Freon 113	4.443	101	630786	40.56	ug/L	96
13) Carbon Disulfide	4.455	76	2178712	39.42	ug/L	100
14) Iodomethane	4.567	142	972699	37.09	ug/L	97
15) Allyl chloride	4.902	41	1186613	39.48	ug/L	98
16) Methylene Chloride	5.025	49	993268	40.70	ug/L	95
17) Acetone	5.049	58	301043	243.66	ug/L	86
18) Methyl acetate	5.172	74	498788	204.26	ug/L #	87
19) trans-1,2-Dichloroethene	5.213	61	985993	42.86	ug/L	97
20) Hexane	5.278	56	652521	42.18	ug/L	95
21) Methyl Tert Butyl Ether	5.319	73	2032847	38.46	ug/L	96
22) Acetonitrile	5.571	40	478636	480.31	ug/L	90
23) Di-isopropyl ether	5.695	45	2562215	41.51	ug/L	96
24) Chloroprene	5.854	53	1122480	38.39	ug/L	98
25) 1,1-Dichloroethane	5.877	63	1232935	41.84	ug/L	95
26) Acrylonitrile	5.906	53	1262145	222.56	ug/L	95
27) ETBE	6.100	59	2395531	41.45	ug/L	97
28) Vinyl acetate	6.083	43	6363464	216.62	ug/L	99
29) cis-1,2-Dichloroethene	6.453	96	706215	37.54	ug/L	95
30) 2,2-Dichloropropane	6.582	77	1081350	42.20	ug/L	95
31) Bromochloromethane	6.664	128	295207	35.66	ug/L #	87
32) Cyclohexane	6.717	56	1246637	41.73	ug/L	96
33) Chloroform	6.717	83	1213229	40.11	ug/L	98
34) Ethyl acetate	6.782	43	2835869	219.43	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978029.D
Acq On : 14 Jul 2016 9:00 am
Operator : darshnap
Sample : cc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 11:31:20 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.894	42	195320	44.14 ug/L	93
37) Carbon Tetrachloride	6.917	117	896531	40.98 ug/L	99
38) 1,1,1-Trichloroethane	6.976	97	1064686	38.51 ug/L	99
39) 2-Butanone	6.999	43	1348646	217.41 ug/L	99
40) 1,1-Dichloropropene	7.082	75	893203	40.26 ug/L	98
41) tert-Butyl Formate	7.170	59	5763125	422.45 ug/L	97
42) Propionitrile	7.311	54	881263	456.33 ug/L	97
43) Methacrylonitrile	7.340	41	3464179	436.41 ug/L	98
44) Benzene	7.334	78	2376245	41.03 ug/L	97
45) TAME	7.416	73	1990791	39.32 ug/L	93
47) 1,2-Dichloroethane	7.528	62	973116	41.05 ug/L	97
48) Trichloroethene	7.916	95	611610	36.84 ug/L	99
49) Methylcyclohexane	7.939	83	1120583	38.03 ug/L	97
50) Dibromomethane	8.339	93	387395	37.37 ug/L	96
51) 1,2-Dichloropropane	8.427	63	659507	37.14 ug/L	97
52) Bromodichloromethane	8.474	83	900331	38.20 ug/L	98
53) Methyl methacrylate	8.574	41	598556	40.85 ug/L	99
54) 2-Chloroethyl vinyl ether	8.985	63	1974720	215.39 ug/L	99
55) cis-1,3-Dichloropropene	9.091	75	1051658	38.63 ug/L	97
58) Toluene	9.332	91	2393603	40.62 ug/L	99
59) 2-Nitropropane	9.537	41	913716	218.69 ug/L	96
60) 4-Methyl-2-pentanone	9.655	43	2837086	222.23 ug/L	99
61) trans-1,3-Dichloropropene	9.720	75	898680	39.40 ug/L	97
62) Tetrachloroethene	9.737	166	510728	34.69 ug/L	95
63) Ethyl methacrylate	9.820	69	808183	39.64 ug/L	93
64) 1,1,2-Trichloroethane	9.884	83	459693	40.49 ug/L	97
65) Dibromochloromethane	10.084	129	574768	36.92 ug/L	98
66) 1,3-Dichloropropane	10.166	76	1003416	40.84 ug/L	99
67) 1,2-Dibromoethane	10.342	107	525431	37.41 ug/L	92
68) 2-hexanone	10.472	43	2052537	221.54 ug/L	98
69) 1-Chlorohexane	10.777	91	854402	40.68 ug/L	97
70) Ethylbenzene	10.842	91	2570795	41.60 ug/L	99
71) Chlorobenzene	10.848	112	1460392	39.90 ug/L	97
72) 1,1,1,2-Tetrachloroethane	10.895	131	562821	36.74 ug/L	97
73) m,p-Xylene	10.983	91	3757970	84.18 ug/L	96
74) o-Xylene	11.424	91	2233778	40.13 ug/L	98
75) Styrene	11.471	104	1639837	38.04 ug/L	97
76) Bromoform	11.529	173	332920	35.50 ug/L	95
77) Isopropylbenzene	11.723	105	2481697	39.81 ug/L	97
80) cis-1,4-Dichloro-2-butene	12.070	53	267678	44.79 ug/L	94
81) n-Propylbenzene	12.146	91	2996210	44.52 ug/L	95
82) Bromobenzene	12.164	156	590074	38.20 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.205	83	717198	42.64 ug/L	93
84) 1,3,5-Trimethylbenzene	12.328	105	2212265	42.87 ug/L	98
85) 2-Chlorotoluene	12.334	91	2137492	43.46 ug/L	98
86) trans-1,4-Dichloro-2-B...	12.381	53	241781	45.26 ug/L #	76
87) 1,2,3-Trichloropropane	12.370	110	190888	41.23 ug/L	94
88) Cyclohexanone	12.434	55	114595	278.13 ug/L	97
89) 4-Chlorotoluene	12.499	91	2074248	42.78 ug/L	98
90) a-Methyl Styrene	12.593	118	1168822	38.60 ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978029.D
Acq On : 14 Jul 2016 9:00 am
Operator : darshnap
Sample : cc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 11:31:20 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	1371449	41.69	ug/L		97
92)	1,2,4-Trimethylbenzene	12.734	105	2203322	42.62	ug/L		96
93)	Pentachloroethane	12.722	167	379988	42.13	ug/L		98
94)	sec-Butylbenzene	12.851	105	2644449	42.14	ug/L		95
95)	4-Isopropyltoluene	12.986	119	2177040	40.62	ug/L		98
96)	1,3-Dichlorobenzene	13.122	146	1149247	39.03	ug/L		97
97)	1,4-Dichlorobenzene	13.204	146	1167511	39.26	ug/L		97
98)	n-Butylbenzene	13.415	92	1459112	41.26	ug/L		93
99)	Benzyl Chloride	13.433	126	274143	40.18	ug/L	#	87
100)	1,2-Dichlorobenzene	13.627	146	1125679	38.95	ug/L		97
101)	1,2-Dibromo-3-Chloropr...	14.367	75	133840	38.03	ug/L		91
102)	Hexachlorobutadiene	14.914	225	338365	34.23	ug/L		96
103)	1,2,4-Trichlorobenzene	14.961	180	777522	37.12	ug/L		96
104)	Naphthalene	15.243	128	1668063	38.19	ug/L		99
105)	1,2,3-Trichlorobenzene	15.413	180	700496	36.27	ug/L		96
107)	Ethanol	4.249	45	150215m	906.92	ug/L		
108)	acrolein	4.743	56	593138	182.79	ug/L		100
109)	Tert Butyl Alcohol	5.360	59	646537	383.63	ug/L		98
110)	tert Amyl alcohol	7.557	59	515974	371.45	ug/L		98
111)	Isobutyl alcohol	7.434	42	426312	777.44	ug/L	#	88
112)	1,4-Dioxane	8.650	88	120443	963.00	ug/L		98
113)	3,3-Dimethyl-1-butanol	10.419	57	2388445	1809.48	ug/L		98

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

7.6.9

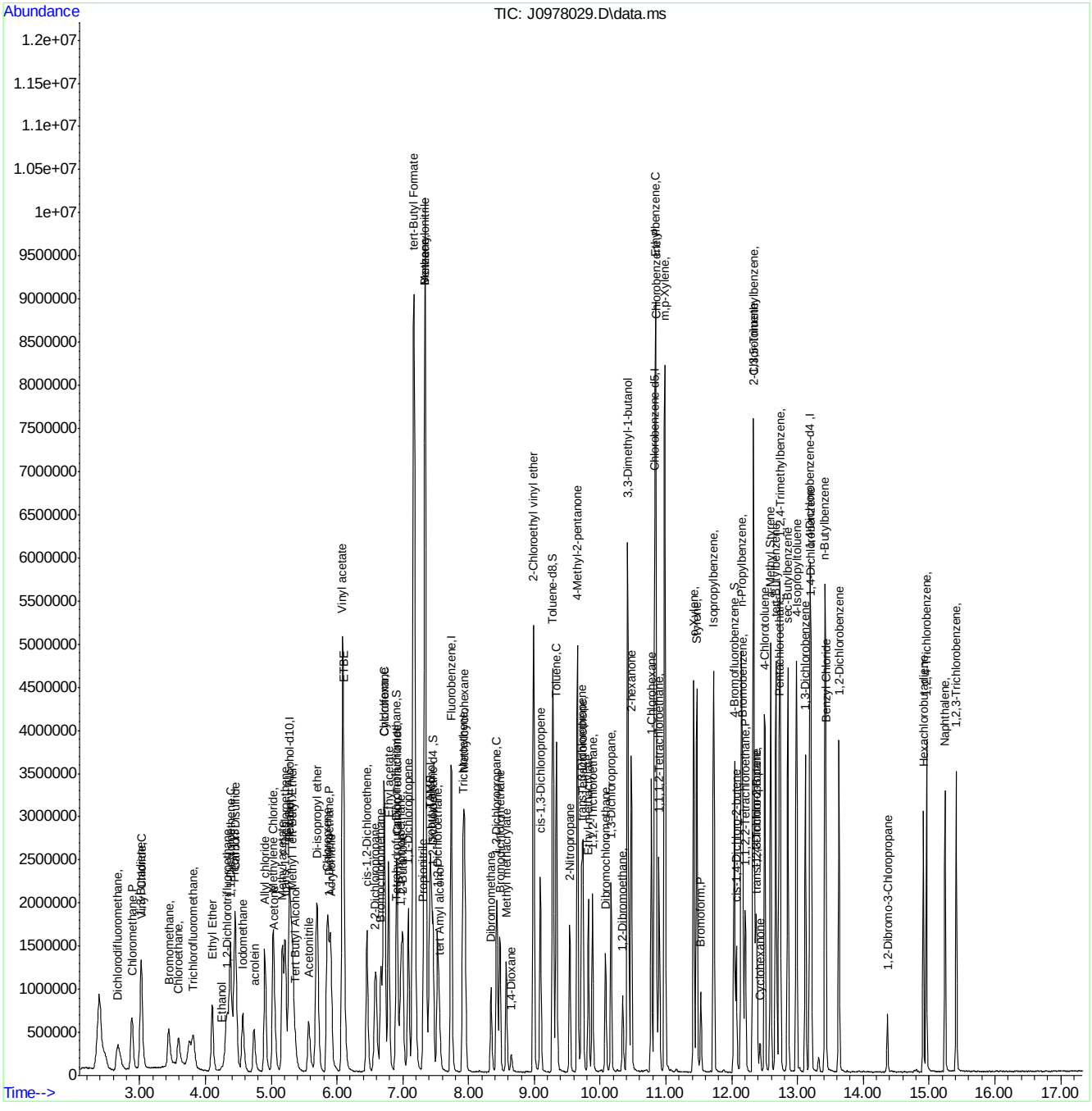
7

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978029.D
Acq On : 14 Jul 2016 9:00 am
Operator : darshnap
Sample : cc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 11:31:20 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



MSJ071216a.M Thu Jul 14 11:36:13 2016 Page: 4

SGS ACCUTEST FA35362

Manual Integration Approval Summary

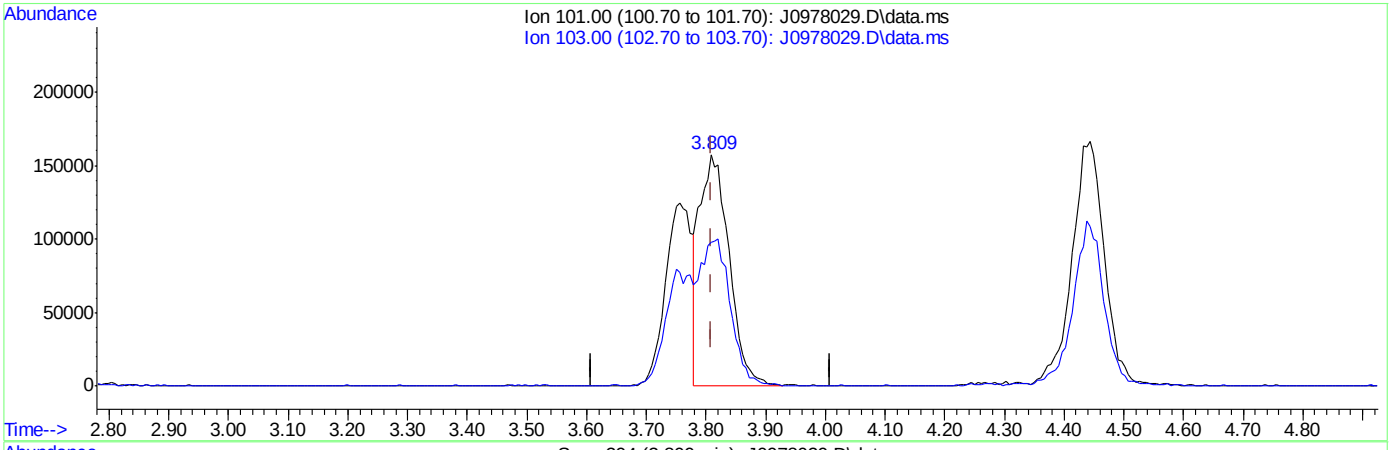
Sample Number:	VJ5370-CC5368	**Method:**	SW846 8260B
Lab FileID:	J0978029.D	**Analyst approved:**	07/14/16 14:15 Darshna Patel
Injection Time:	07/14/16 09:00	**Supervisor approved:**	07/14/16 14:59 Juan Garcia

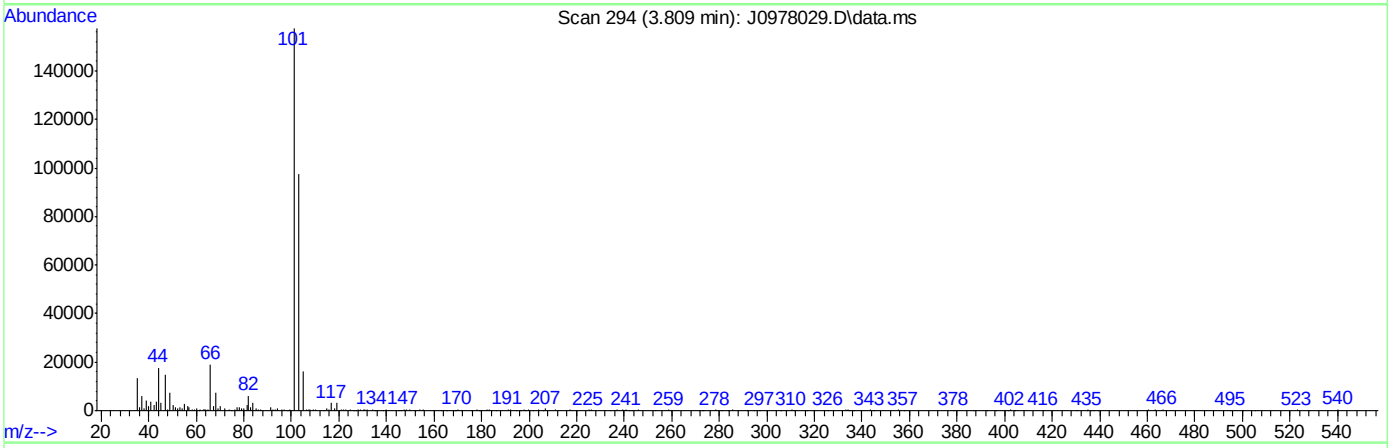
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.81	Split peak
Ethyl Alcohol	64-17-5		4.25	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978029.D
Acq On : 14 Jul 2016 9:00 am
Operator : darshnap
Sample : cc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 09:26:07 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978029.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (-0.000) 24.82ug/L

response 537985

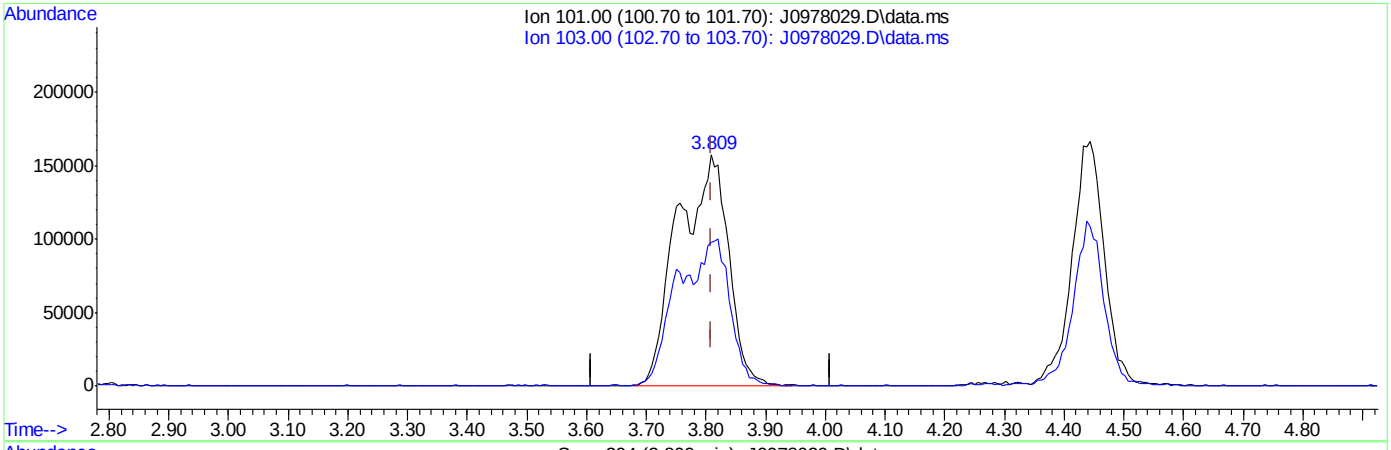
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	61.79
0.00	0.00	0.00
0.00	0.00	0.00

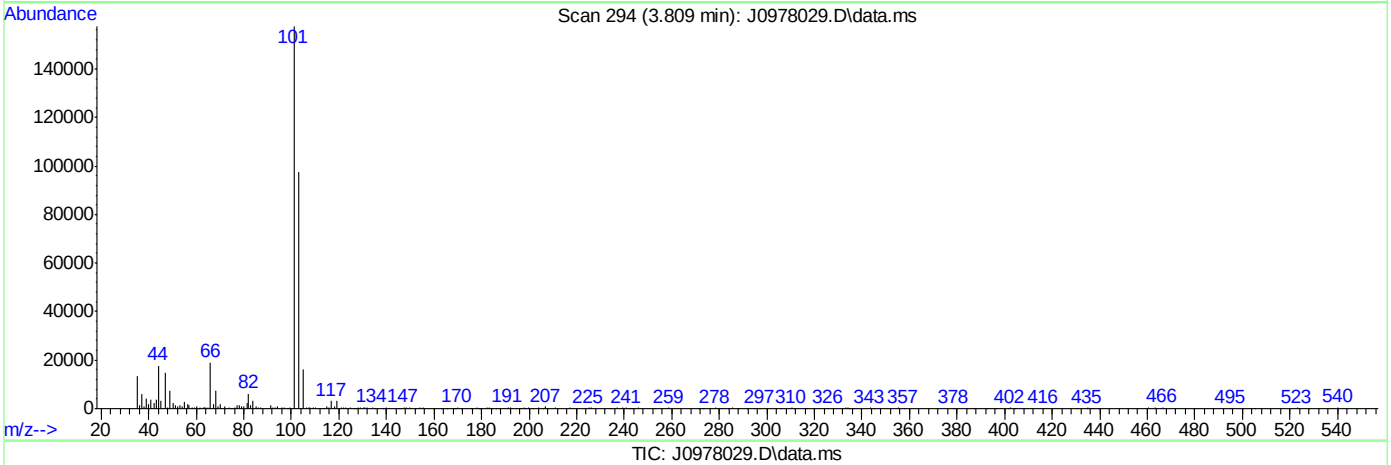
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978029.D
Acq On : 14 Jul 2016 9:00 am
Operator : darshnap
Sample : cc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 09:26:07 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978029.D\data.ms

(8) Trichlorofluoromethane ( )

3.809min (-0.000) 42.85ug/L m

response 928915

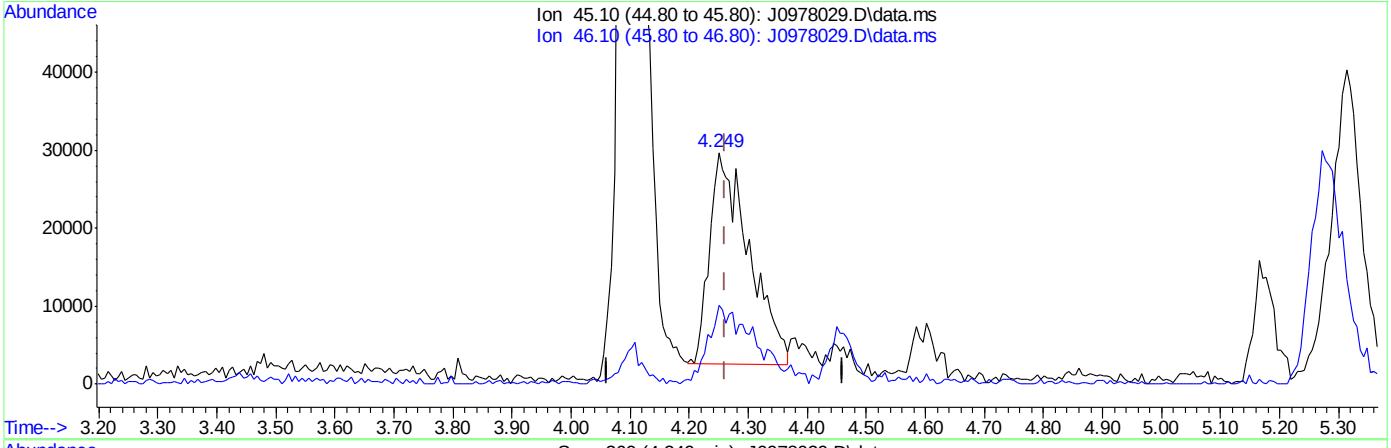
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	61.93
0.00	0.00	0.00
0.00	0.00	0.00

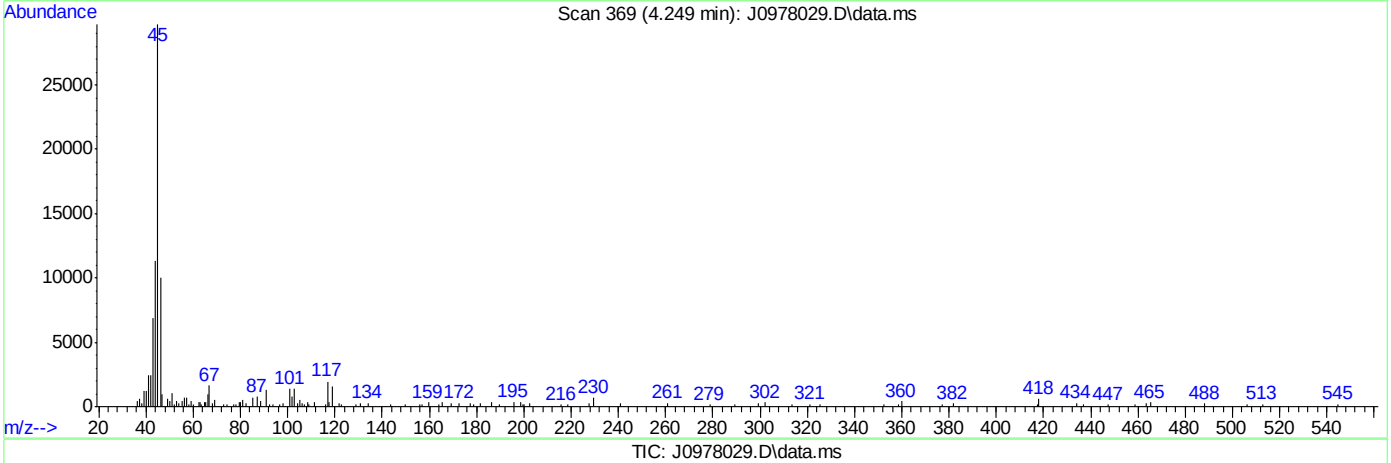
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978029.D
Acq On : 14 Jul 2016 9:00 am
Operator : darshnap
Sample : cc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 09:26:07 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





(107) Ethanol

4.249min (-0.012) 754.74ug/L

response 125408

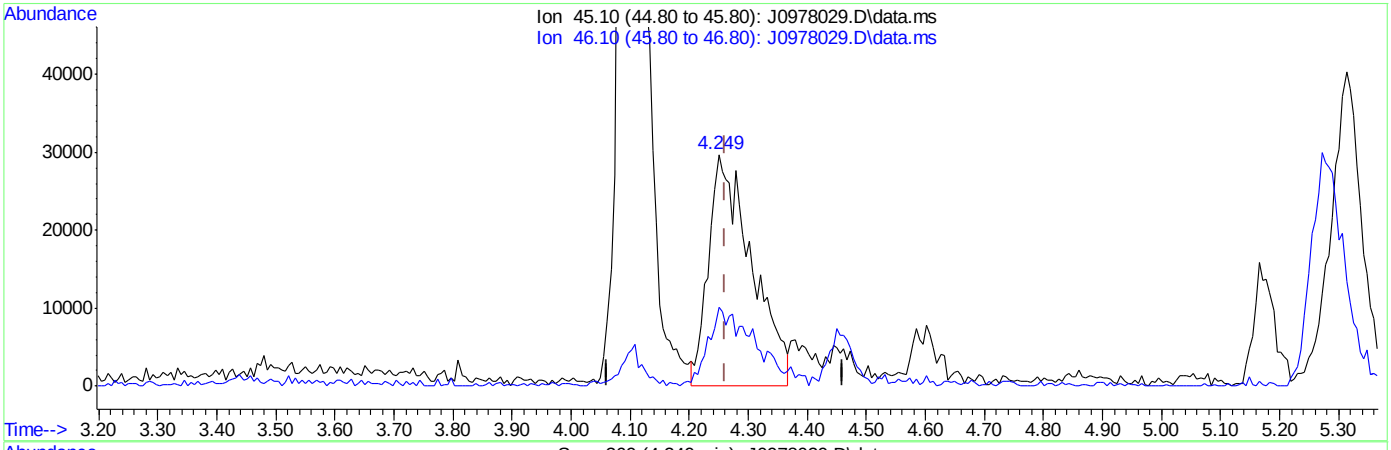
Ion	Exp%	Act%
45.10	100	100
46.10	30.50	34.95
0.00	0.00	0.00
0.00	0.00	0.00

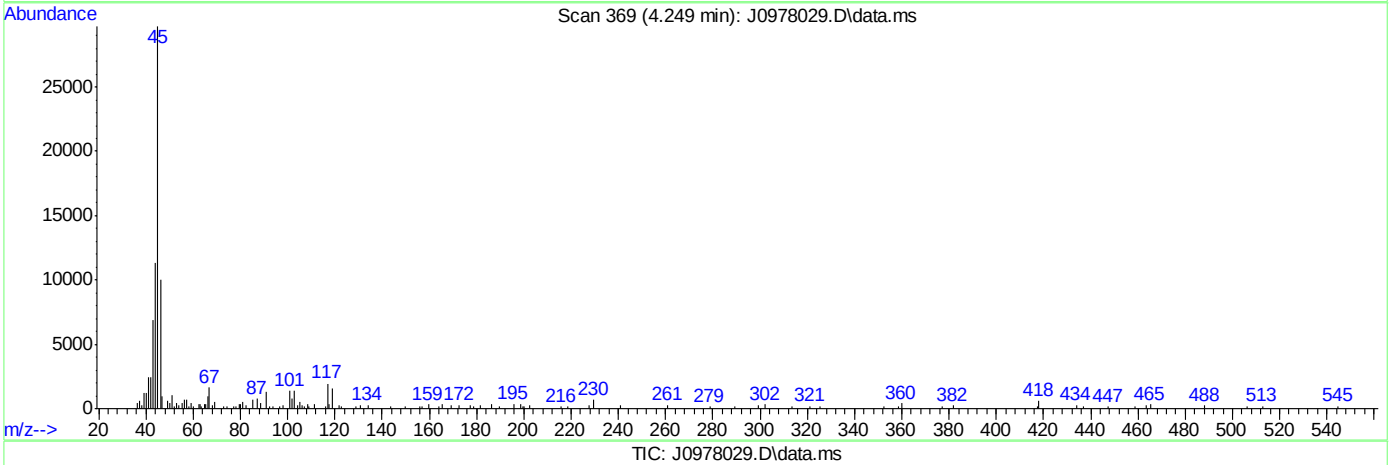
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978029.D
Acq On : 14 Jul 2016 9:00 am
Operator : darshnap
Sample : cc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jul 14 09:26:07 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





(107) Ethanol

4.249min (-0.012) 906.92ug/L m

response 150215

Ion	Exp%	Act%
45.10	100	100
46.10	30.50	33.81
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

Manual Integrations APPROVED (compounds with "m" flag)
Melissa Mangual 07/15/16 12:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978056.D
Acq On : 14 Jul 2016 7:49 pm
Operator : darshnap
Sample : ecc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 15 08:38:18 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.740	96	2501215	50.00	ug/L	0.00
56) Chlorobenzene-d5	10.830	117	1712833	50.00	ug/L	0.00
78) 1,4-Dichlorobenzene-d4	13.186	152	888224	50.00	ug/L	0.00
106) Tert Butyl Alcohol-d10	5.278	65	314290	250.00	ug/L	0.00
System Monitoring Compounds						
36) Dibromofluoromethane	6.911	113	640603	49.01	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 98.02%			
46) 1,2-Dichloroethane-d4	7.464	65	938767	53.16	ug/L	0.00
Spiked Amount 50.000	Range 79 - 125		Recovery = 106.32%			
57) Toluene-d8	9.285	98	2410795	52.29	ug/L	0.00
Spiked Amount 50.000	Range 85 - 112		Recovery = 104.58%			
79) 4-Bromofluorobenzene	12.041	95	1019997	54.13	ug/L	0.00
Spiked Amount 50.000	Range 83 - 118		Recovery = 108.26%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.663	85	755526	39.37	ug/L	98
3) Chloromethane	2.881	50	948711	42.44	ug/L	96
4) Vinyl Chloride	3.022	62	826345	47.47	ug/L	99
5) 1,3-Butadiene	3.022	54	737058	56.33	ug/L	94
6) Bromomethane	3.439	94	425855	49.71	ug/L	96
7) Chloroethane	3.597	64	412100	50.78	ug/L	99
8) Trichlorofluoromethane	3.803	101	941297m	48.74	ug/L	
9) Ethyl Ether	4.109	59	567248	41.39	ug/L	98
10) 1,2-Dichlorotrifluoroe...	4.338	67	755568	46.42	ug/L	87
11) 1,1-Dichloroethene	4.379	61	1014249	46.19	ug/L	94
12) Freon 113	4.438	101	568197	41.01	ug/L	91
13) Carbon Disulfide	4.455	76	1994143	40.50	ug/L	96
14) Iodomethane	4.567	142	842749	36.07	ug/L	96
15) Allyl chloride	4.908	41	1106128	41.43	ug/L	96
16) Methylene Chloride	5.031	49	929663	42.88	ug/L	95
17) Acetone	5.055	58	263852	239.72	ug/L #	83
18) Methyl acetate	5.178	74	460789	211.82	ug/L #	85
19) trans-1,2-Dichloroethene	5.213	61	925132	45.29	ug/L	96
20) Hexane	5.284	56	623379	45.38	ug/L	93
21) Methyl Tert Butyl Ether	5.319	73	1828432	38.83	ug/L	98
22) Acetonitrile	5.572	40	424837	478.58	ug/L	91
23) Di-isopropyl ether	5.701	45	2370591	43.24	ug/L	95
24) Chloroprene	5.854	53	1173819	45.65	ug/L	96
25) 1,1-Dichloroethane	5.877	63	1163544	44.50	ug/L	94
26) Acrylonitrile	5.907	53	1122361	222.14	ug/L	99
27) ETBE	6.100	59	2200715	42.85	ug/L	95
28) Vinyl acetate	6.089	43	5834836	225.63	ug/L	98
29) cis-1,2-Dichloroethene	6.459	96	639491	38.16	ug/L	91
30) 2,2-Dichloropropane	6.588	77	870186	37.94	ug/L	95
31) Bromochloromethane	6.670	128	255235	34.60	ug/L #	83
32) Cyclohexane	6.717	56	1193498	45.01	ug/L	95
33) Chloroform	6.723	83	1132197	42.18	ug/L	98
34) Ethyl acetate	6.788	43	2752162	242.41	ug/L	99

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978056.D
Acq On : 14 Jul 2016 7:49 pm
Operator : darshnap
Sample : ecc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 15 08:38:18 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
35) Tetrahydrofuran	6.899	42	172892	43.84 ug/L	95
37) Carbon Tetrachloride	6.917	117	811120	41.64 ug/L	99
38) 1,1,1-Trichloroethane	6.976	97	978986	39.75 ug/L	99
39) 2-Butanone	7.005	43	1301317	236.62 ug/L	98
40) 1,1-Dichloropropene	7.088	75	852398	43.13 ug/L	96
41) tert-Butyl Formate	7.170	59	4573083	365.96 ug/L	93
42) Propionitrile	7.317	54	787140	457.53 ug/L	85
43) Methacrylonitrile	7.340	41	3337295	481.57 ug/L	98
44) Benzene	7.340	78	2259589	44.17 ug/L	99
45) TAME	7.417	73	1800935	39.98 ug/L	92
47) 1,2-Dichloroethane	7.528	62	896404	42.53 ug/L	98
48) Trichloroethene	7.916	95	573195	38.75 ug/L	98
49) Methylcyclohexane	7.939	83	1047682	39.91 ug/L	95
50) Dibromomethane	8.345	93	350793	37.98 ug/L	92
51) 1,2-Dichloropropane	8.433	63	622518	39.35 ug/L	97
52) Bromodichloromethane	8.480	83	806491	38.41 ug/L	98
53) Methyl methacrylate	8.574	41	570274	43.75 ug/L	95
54) 2-Chloroethyl vinyl ether	8.991	63	1801219	221.24 ug/L	99
55) cis-1,3-Dichloropropene	9.091	75	918158	37.86 ug/L	93
58) Toluene	9.338	91	2235411	41.78 ug/L	95
59) 2-Nitropropane	9.538	41	853931	224.49 ug/L	94
60) 4-Methyl-2-pentanone	9.655	43	2865938	252.23 ug/L	99
61) trans-1,3-Dichloropropene	9.720	75	816273	39.26 ug/L	96
62) Tetrachloroethene	9.737	166	615608	45.88 ug/L	96
63) Ethyl methacrylate	9.820	69	767662	41.35 ug/L	94
64) 1,1,2-Trichloroethane	9.884	83	411859	39.78 ug/L	97
65) Dibromochloromethane	10.084	129	489465	34.49 ug/L	99
66) 1,3-Dichloropropane	10.166	76	905933	40.45 ug/L	97
67) 1,2-Dibromoethane	10.343	107	472473	36.90 ug/L	94
68) 2-hexanone	10.472	43	2042754	245.25 ug/L	95
69) 1-Chlorohexane	10.777	91	797977	41.74 ug/L	96
70) Ethylbenzene	10.848	91	2454376	44.02 ug/L	98
71) Chlorobenzene	10.848	112	1370552	41.21 ug/L	96
72) 1,1,1,2-Tetrachloroethane	10.895	131	501382	35.91 ug/L	98
73) m,p-Xylene	10.983	91	3595744	89.90 ug/L	94
74) o-Xylene	11.424	91	2061898	40.73 ug/L	96
75) Styrene	11.471	104	1493341	38.00 ug/L	98
76) Bromoform	11.535	173	257706	30.15 ug/L	97
77) Isopropylbenzene	11.723	105	2314478	40.91 ug/L	94
80) cis-1,4-Dichloro-2-butene	12.070	53	151262	28.58 ug/L	95
81) n-Propylbenzene	12.146	91	2838920	48.82 ug/L	92
82) Bromobenzene	12.164	156	539899	39.57 ug/L	98
83) 1,1,2,2-Tetrachloroethane	12.205	83	638097	42.91 ug/L	98
84) 1,3,5-Trimethylbenzene	12.329	105	2088716	46.46 ug/L	95
85) 2-Chlorotoluene	12.334	91	2029090	47.37 ug/L	97
86) trans-1,4-Dichloro-2-B...	12.387	53	149508	31.40 ug/L	95
87) 1,2,3-Trichloropropane	12.364	110	166331	40.59 ug/L	94
88) Cyclohexanone	12.428	55	96834	265.28 ug/L	96
89) 4-Chlorotoluene	12.499	91	1901816	44.65 ug/L	95
90) a-Methyl Styrene	12.593	118	1106342	41.55 ug/L	95

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978056.D
Acq On : 14 Jul 2016 7:49 pm
Operator : darshnap
Sample : ecc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 15 08:38:18 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
91)	tert-Butylbenzene	12.669	91	1299162	45.05	ug/L		94
92)	1,2,4-Trimethylbenzene	12.734	105	2034339	44.95	ug/L		96
93)	Pentachloroethane	12.722	167	205332	25.85	ug/L		85
94)	sec-Butylbenzene	12.851	105	2544259	46.85	ug/L		95
95)	4-Isopropyltoluene	12.981	119	2048995	43.79	ug/L		95
96)	1,3-Dichlorobenzene	13.122	146	1031765	39.65	ug/L		98
97)	1,4-Dichlorobenzene	13.204	146	1070848	40.84	ug/L		96
98)	n-Butylbenzene	13.416	92	1389727	44.90	ug/L		95
99)	Benzyl Chloride	13.433	126	199548	32.62	ug/L	#	71
100)	1,2-Dichlorobenzene	13.627	146	990183	38.71	ug/L		96
101)	1,2-Dibromo-3-Chloropr...	14.367	75	119917	38.52	ug/L		81
102)	Hexachlorobutadiene	14.914	225	315338	36.06	ug/L		97
103)	1,2,4-Trichlorobenzene	14.961	180	677351	36.52	ug/L		97
104)	Naphthalene	15.243	128	1524261	39.63	ug/L		99
105)	1,2,3-Trichlorobenzene	15.413	180	610525	35.71	ug/L		96
107)	Ethanol	4.267	45	129078m	857.99	ug/L		
108)	acrolein	4.743	56	492091	166.85	ug/L		97
109)	Tert Butyl Alcohol	5.360	59	595114	389.25	ug/L		98
110)	tert Amyl alcohol	7.558	59	461376	366.01	ug/L		99
111)	Isobutyl alcohol	7.434	42	405382	815.41	ug/L	#	92
112)	1,4-Dioxane	8.656	88	97713	869.83	ug/L		87
113)	3,3-Dimethyl-1-butanol	10.419	57	2208482	1847.71	ug/L		98

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

7.6.10

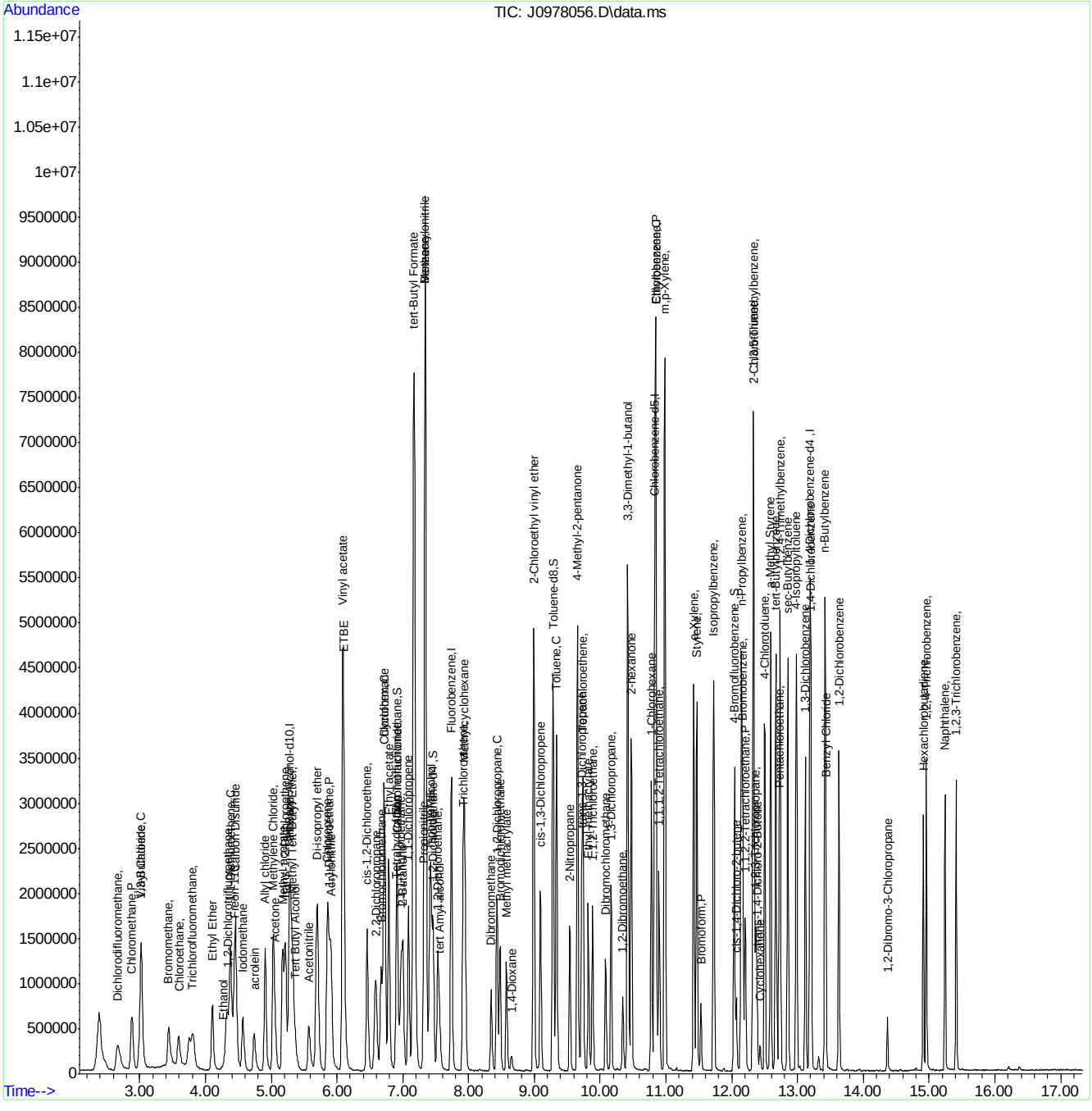
7

SGS ACCUTEST FA35362

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978056.D
Acq On : 14 Jul 2016 7:49 pm
Operator : darshnap
Sample : ecc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 15 08:38:18 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration



MSJ071216a.M Fri Jul 15 11:48:31 2016 Page: 4

SGS ACCUTEST FA35362

Manual Integration Approval Summary

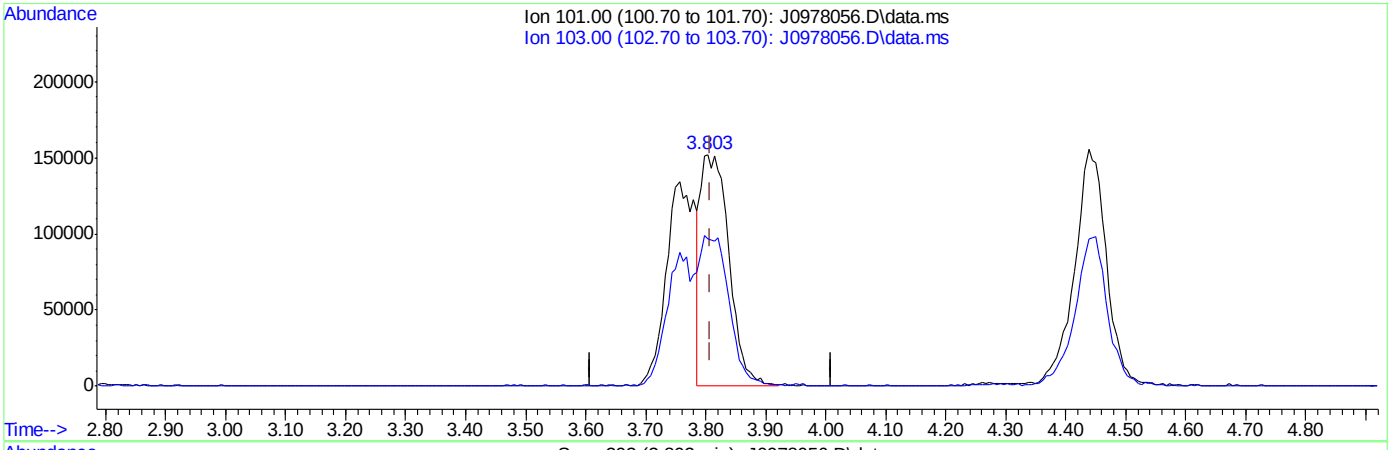
Sample Number:	VJ5370-ECC5368	**Method:**	SW846 8260B
Lab FileID:	J0978056.D	**Analyst approved:**	07/15/16 11:34 Kathleen McNatt
Injection Time:	07/14/16 19:49	**Supervisor approved:**	07/15/16 12:33 Melissa Mangual

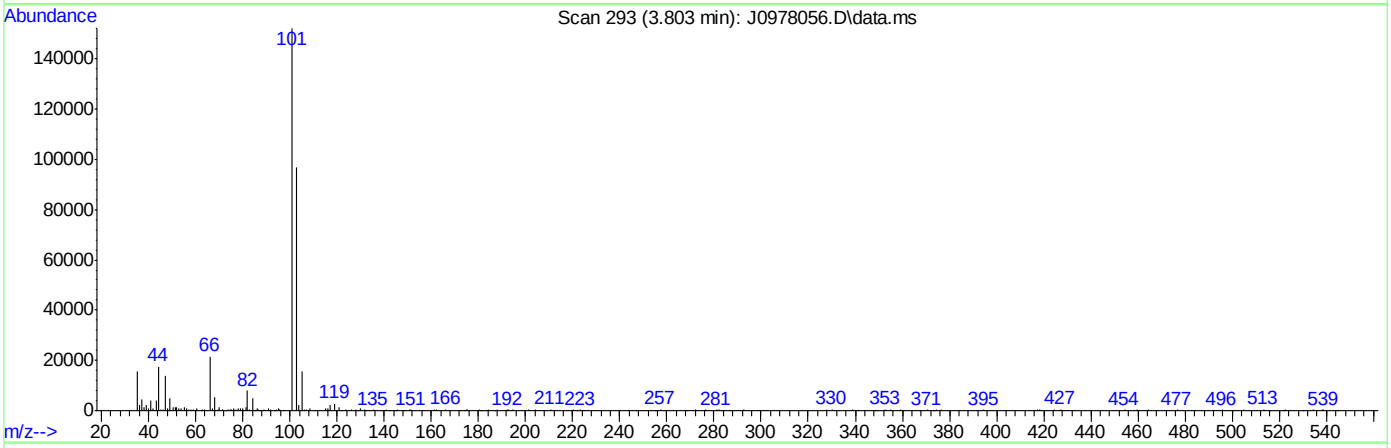
Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		3.80	Split peak
Ethyl Alcohol	64-17-5		4.27	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978056.D
Acq On : 14 Jul 2016 7:49 pm
Operator : darshnap
Sample : ecc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 15 08:25:32 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978056.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 25.59ug/L

response 494197

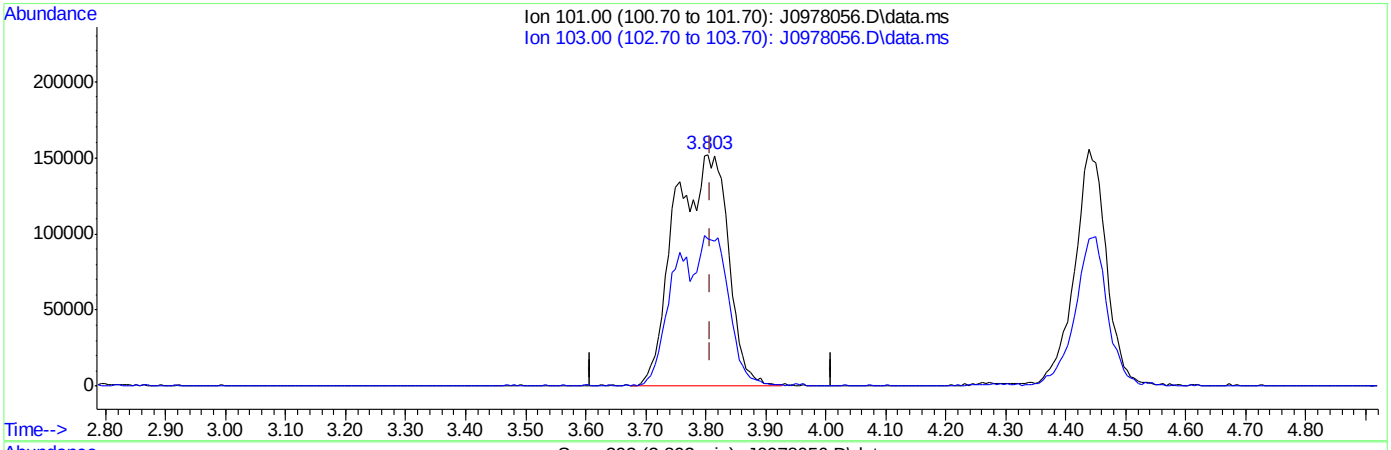
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	63.28
0.00	0.00	0.00
0.00	0.00	0.00

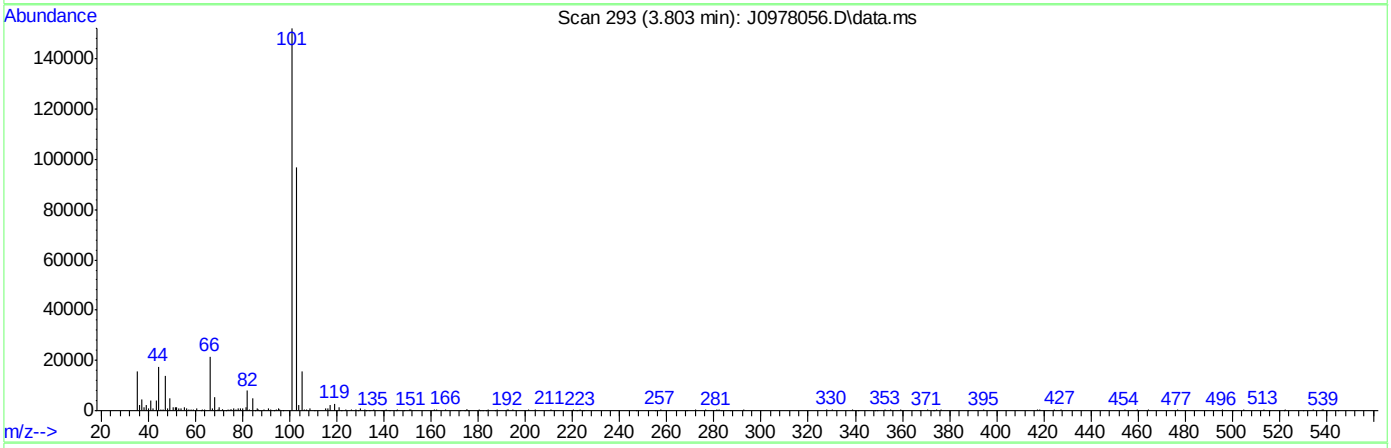
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978056.D
Acq On : 14 Jul 2016 7:49 pm
Operator : darshnap
Sample : ecc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 15 08:25:32 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978056.D\data.ms

(8) Trichlorofluoromethane ( )

3.803min (-0.006) 48.74ug/L m

response 941297

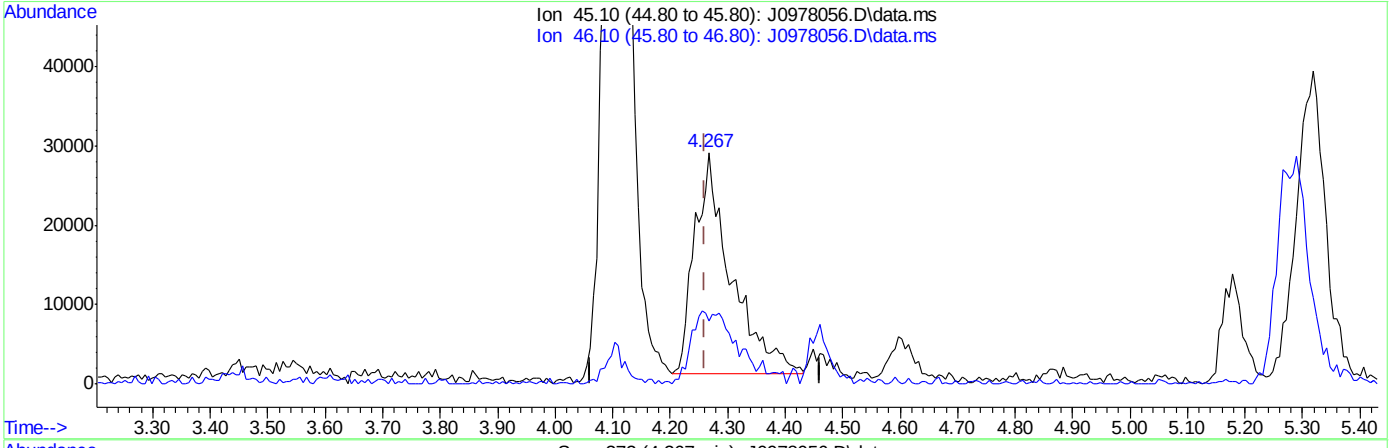
Ion	Exp%	Act%
101.00	100	100
103.00	59.40	63.50
0.00	0.00	0.00
0.00	0.00	0.00

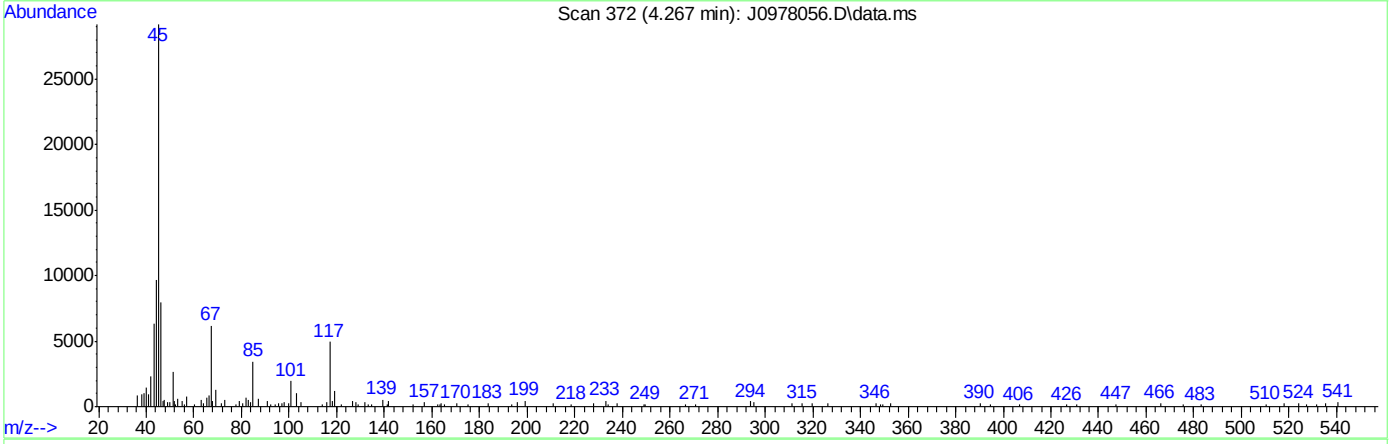
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978056.D
Acq On : 14 Jul 2016 7:49 pm
Operator : darshnap
Sample : ecc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 15 08:25:32 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978056.D\data.ms

(107) Ethanol

4.267min (+0.006) 819.78ug/L

response 123428

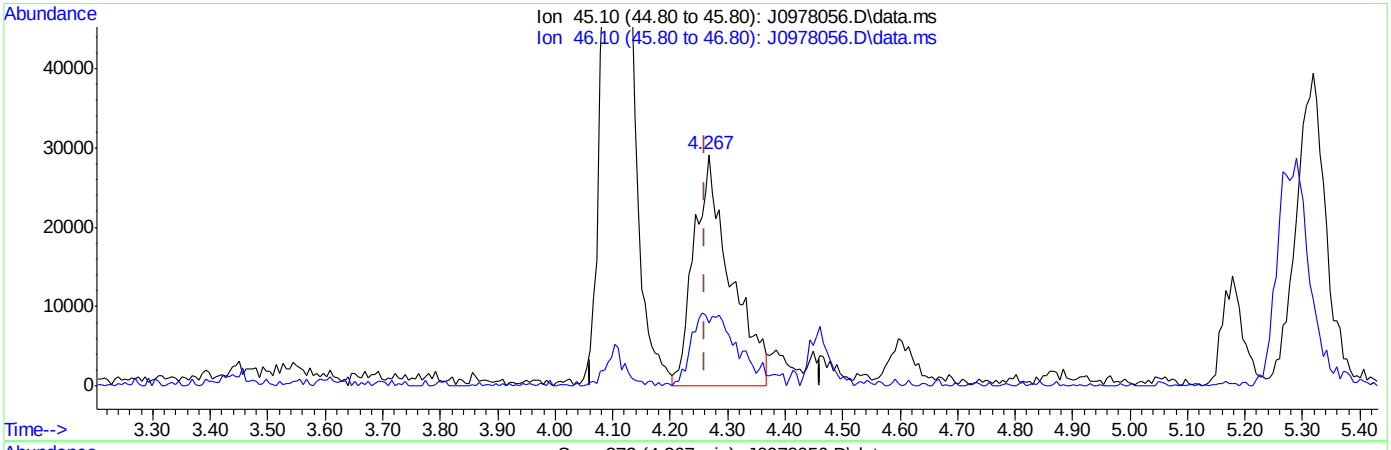
Ion	Exp%	Act%
45.10	100	100
46.10	30.50	28.57
0.00	0.00	0.00
0.00	0.00	0.00

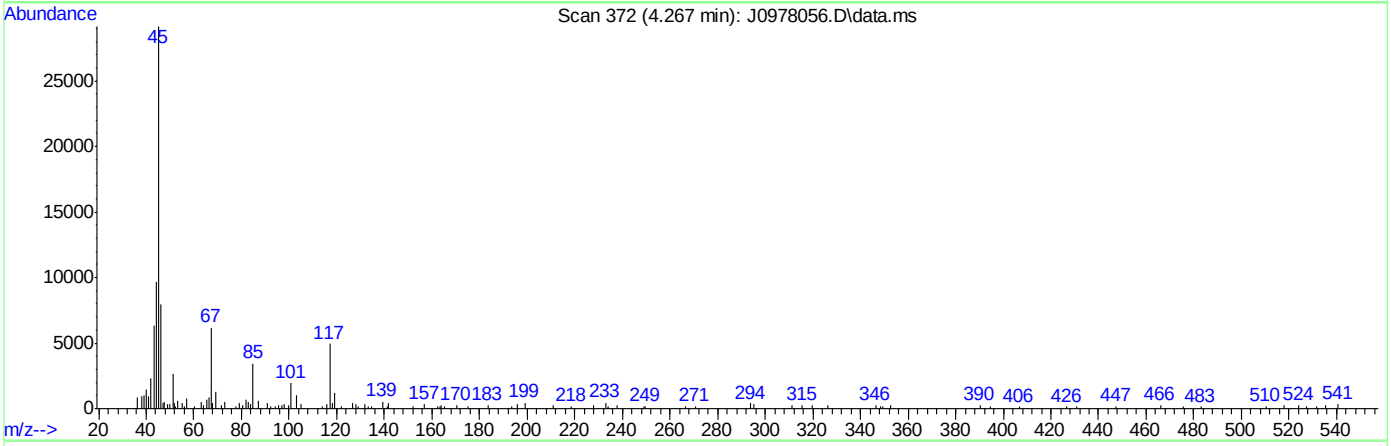
SGS ACCUTEST FA35362

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\071416\
Data File : J0978056.D
Acq On : 14 Jul 2016 7:49 pm
Operator : darshnap
Sample : ecc5368-5 Inst : MSVOA6
Misc : MS34397,vj5370,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jul 15 08:25:32 2016
Quant Method : C:\msdchem\1\methods\MSJ071216a.M
Quant Title : SW-846 Method 5030B/8260B & EPA 624
QLast Update : Wed Jul 13 08:28:16 2016
Response via : Initial Calibration





TIC: J0978056.D\data.ms

(107) Ethanol

4.267min (+0.006) 857.99ug/L m

response 129078

Ion	Exp%	Act%
45.10	100	100
46.10	30.50	27.32
0.00	0.00	0.00
0.00	0.00	0.00

SGS ACCUTEST FA35362

ACCUTEST LABORATORIES SE

DATE:	07-12-16
COLUMN TYPE:	RTX-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1 psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSS071216A.M
CALIB. DATE:	07-12-16
EM VOLTAGE:	1635V
BFB RESPONSE:	5539728
RUN ID:	VJ5368

STANDARDS

BFB:	
ICAL/CCV:	V20434 V20424 V20423 V20405 V20416 V20406 V20349 V20438
ISTD/SURR:	
ICV/QC:	V20455 V20390 V20453 V20397 V20398 V20388 V20362 V20425
Purge Volume	5.0ml

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J0977969	BFB	N/A	H2O	1	8260		N/A	N/A		Jul → Auto Pass.
J 70	BLK			1						
J 71	ICS368-1			1		SP(8) PII(7,10,15,22, OP(37)				0.5ul → 50ml
J 72	-2			2		SP(8) PII(35) OP(37) PII(88)(107)				2.5ul → 50ml
J 73	-3			3		SP(8) PII(107)				5ul → 50ml
J 74	-4			4		SP(8) PII(107)				12.5ul → 50ml
J 75	-5			5		SP(8) OP(37) PII(107)				20ul → 50ml
J 76	-6			6		SP(8) OP(37) PII(107)				35ul → 50ml
J 77	-7			7		SP(8) OP(37) PII(107)				50ml → 50ml
J 78	BLK			8						✓
J 79	ICVS368-5			1		SP(8) OP(37) PII(107)				25ul → 50ml
J 80	BS			1		SP(8) OP(37) PII(107)				12.5ul → 40ml
J 81	MB	↓		2			↓	↓		✓
J 82	FA35193-1	6		3			1	N		✓
J 83	-2	6		4			1			✓
J 84	-4	6		5			1			✓
J 85	FA35334-1, 100x	2		6		0.5ml → 50ml	4		50x	
J 86	-2, 200x	2		7		0.25ml → 50ml	4		100x	
J 87	-3 ~~100x~~ 100x	2		8		~~0.5ml → 50ml~~ DP 07-12-16	4		50x	✓
J 88	-4	2		9			4			ND
J 89	-5, 10x	2		10		5ul → 50ml	1			✓
J 90	-6, 10x	2		11			1			✓
J 91	-7, 10x	2		12		↓ PII(4)	1			✓
J 92	-8	2		13			4			ND
J 93	-9	2		14			4			ND
J 94	-10	2		15			4			✓
J 95	-7ms	2		16		SP(8) OP(37) PII(107)	1			12.5ul → 40ml ✓
J 96	-7msd	2		17		SP(8) OP(37) PII(107)	1	N		
97	ECS368-5			18		SP(8) OP(37) PII(107)				20ml → 50ml ✓

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

Analyst's Signature: DP

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

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

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

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	07-14-16
COLUMN TYPE:	RTx-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1 psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MS07216A.M
CALIB. DATE:	07-12-16
EM VOLTAGE:	1635V
BFB RESPONSE:	5197527
RUN ID:	VJ5370/5371

STANDARDS

BFB:	V20400
ICAL/CCV:	V20434 V20424 V20457 V20423 V20406 V20416 V20449 V20438
ISTD/SURR:	V20400
ICV/QC:	V20455 V20390 V20398 V20453
Purge Volume	V20388 V20397 V20362 V20425

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J09778027	BLK	N/A	H2O	1	8260		N/A	N/A		✓
J 28	BFB			1						Auto passed
J 29	CCS368-S			1		SP(8) OP(37) PII(107)				20ml→50ml
J 30	BS			1		SP(8) OP(37) PII(107)				12.5ml→40ml
J 31	MB			2						ND
J 32	FA35362-1 MA	2		1			1	N		✓
J 33	-2 MA	3		2			1			✓ 1,4 Dioxane↑
J 34	-3 MA	2		3			1			✓
J 35	-4 MA	2		4			1			✓
J 36	-5 MA	2		5			1			✓
J 37	-6 MA	2		6			1			✓
J 38	-7 MA	2		7			1			✓
J 39	-8 MA	1		8			1			ND
J 40	-1MS MA	3		9		SP(8) PII(107)	1			12.5ml→40ml ✓
J 41	-1MSD MA	3		9		SP(8) OP(37)	1			✓
J 42	FA35261-1	1		10			1	N		✓
J 43	FA35343-1	1		11			1			ND
J 44	-2	1		12			1			ND
J 45	-3	1		13			1			ND
J 46	-4	1		14			1			ND
J 47	-5	1		15			1			ND
J 48	FA35372-1	1		16			1			✓
J 49	-2	1		17			1			✓
J 50	FA35279-13,200x	2		18		0.25ml→50ml	1			✓
J 51	-15,500x	3		19		0.1ml→50ml	1			✓
J 52	-17,100x	3		20		0.5ml→50ml	1			✓
J 53	-18,5x	3		21		10ml→50ml	1			✓
J 54 SS	FA35372-1 MS/MSD	2		22		SP(8) OP(37) PII(107), SP(8) PII(107)	1	N		12.5ml→40ml ✓
J 56	BCCS368-S	—		23		SP(8) PII(107)	—	—		✓ 20mL→50mL

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

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

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

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

Analyst's Signature: DP

msvoa6_j_log.xls NF 06/10

ACCUTEST LABORATORIES SE

DATE:	07-14-16
COLUMN TYPE:	RTx-VMS
DETECTOR:	5973 MSD
INSTRUMENT:	MSVOA6-J
PURGE PRESSURE:	11.1 psi
ANALYST:	DP

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

MS VOA6-J ANALYSIS LOG

METHODS:*	8260
METHOD FILE:	MSJ071216A.M
CALIB. DATE:	07-12-16
EM VOLTAGE:	1635V
BFB RESPONSE:	5197527
RUN ID:	VJ5370/5371

STANDARDS

BFB:	V20400
ICAL/CCV:	V20434 V20424 V20457 V20423 V20406 V20416 V20449 V20438
ISTD/SURR:	V20400
ICV/QC:	V20455 V20390 V20398 V20453
Purge Volume	V20388 V20397 V20362 V20425

DATA FILE	SAMPLE ID, DIL.	Vial #	MATRIX	ALS POS.	SAMPLE METHOD	MANUALLY INTEGRATED PEAKS RATIONALE, PEAK #	PH	CI ?	RR	COMMENTS
J09778027	BLK	N/A	H_2O	1	8260		N/A	N/A		✓
J 28	BFB			1						Auto passed
J 29	CCS368-S			1		SP(8) OP(37) PII(107)				20ul→50ml
J 30	BS			1		SP(8) OP(37) PII(107)				12.5ul→40ml
J 31	MB			2						ND
J 32	FA35362-1 MA	2		1			1	N		✓
J 33	-2 MA	3		2			1			✓ 1,4 Dioxane ↑
J 34	-3 MA	2		3			1			✓ ↓
J 35	-4 MA	2		4			1			✓
J 36	-5 MA	2		5			1			✓
J 37	-6 MA	2		6			1			✓
J 38	-7 MA	2		7			1			✓
J 39	-8 MA	1		8			1			ND
J 40	-1MS MA	3		9		SP(8) PII(107)	1			12.5ul→40ml ✓
J 41	-1MSD MA	3		9		SP(8) OP(37)	1			↓ ✓
J 42	FA35261-1	1		10			1	N		✓
J 43	FA35343-1	1		11			1			ND
J 44	-2	1		12			1			ND
J 45	-3	1		13			1			ND
J 46	-4	1		14			1			ND
J 47	-5	1		15			1			ND
J 48	FA35372-1	1		16			1			✓
J 49	-2	1		17			1			✓
J 50	FA35279-13,200x	2		18		0.25ml→50ml	1			✓
J 51	-15,500x	3		19		0.1ml→50ml	1			✓
J 52	-17,100x	3		20		0.5ml→50ml	1			✓
J 53	-18,5x	3		21		10ml→50ml	1			✓
J 54,55	FA35372-1 MS,MSD	2		22		SP(8) OP(37) PII(107), SP(8) PII(107)	1	N		12.5ml→40ml ✓
J 56	ECCS368-S			23		SP(8) PII(107)				✓ 20µL→50mL

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

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

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

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

Analyst's Signature: DP

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